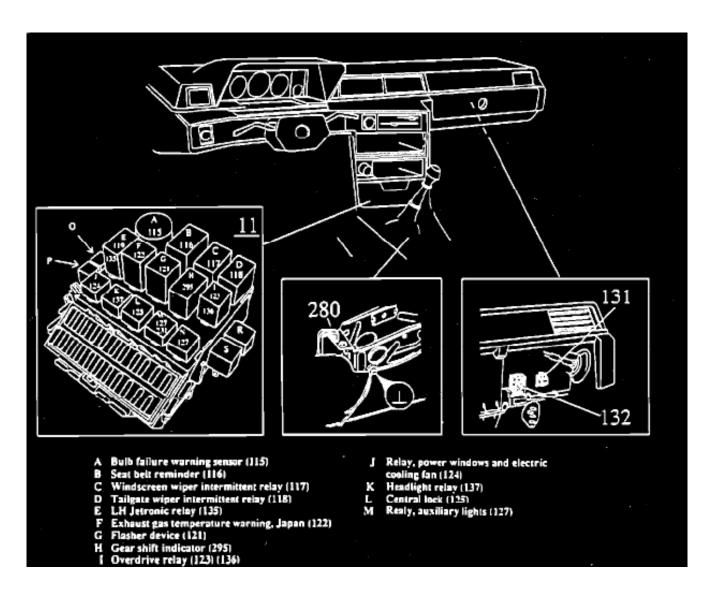
Locations



Hazard Flasher Relay: Locations

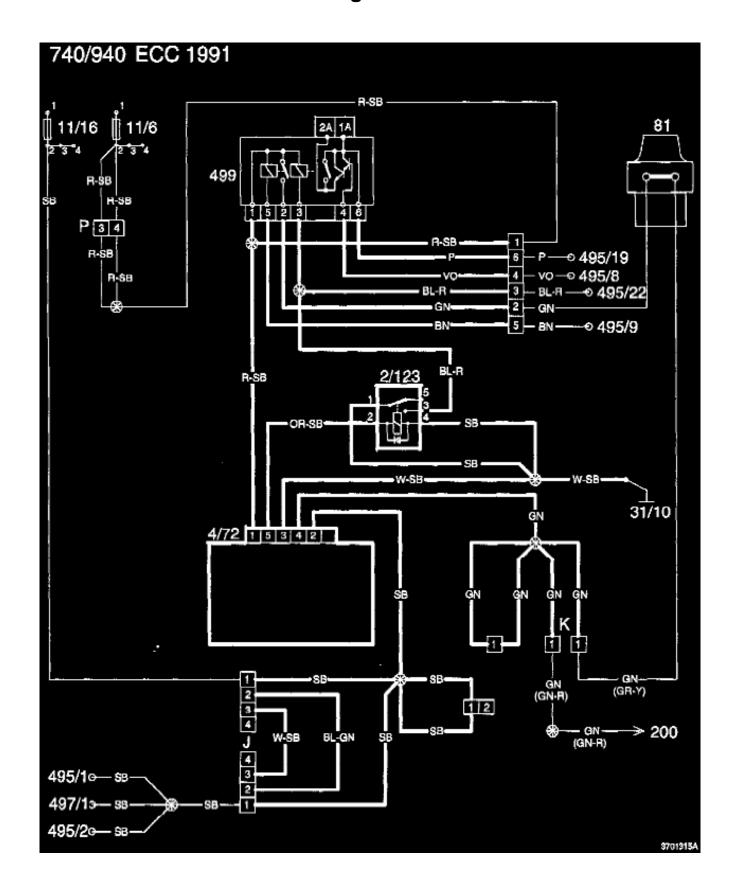
Refer to "Lighting and Horns: Hazard Warning Lamps: Locations: Components".

Relay Locations

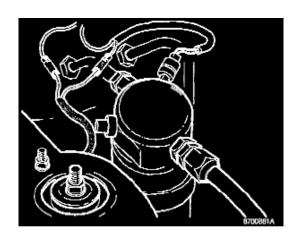
In Fuse Panel

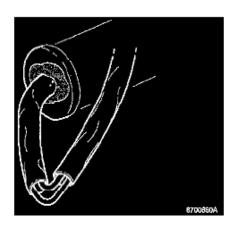
17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
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-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

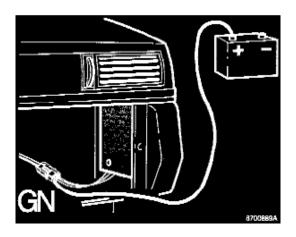
Page 272



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B11 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet under suspension strut brace.

- Attach the round housing receptacles included in the new cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.
- Connect cables from the new cable harness to the separated connectors.

B12 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

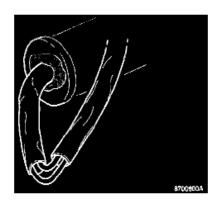
Function verification and information

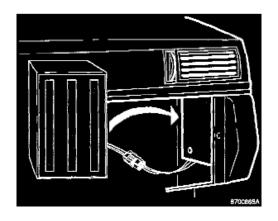
B13 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector







A10 Route cables to engine compartment -

Route the green cables on the cable harness to the engine compartment through the vacant hole in the grommet under the brace to the suspension tower.

1988 and 1989 model years: -

Connect the flat connectors.

Year model 1990 cars (shown here): -

Connect the round connectors.

- Connect all unconnected connectors to each other.

A11 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

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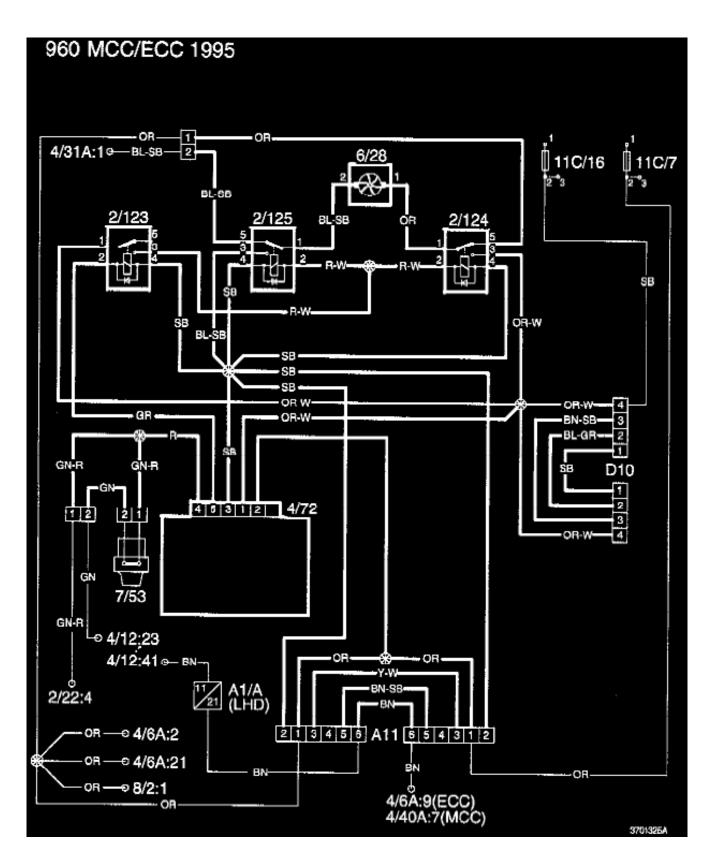
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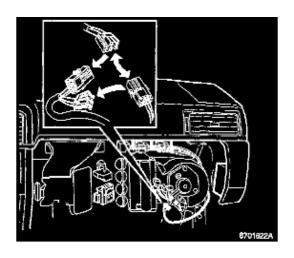
Installing control module from kit

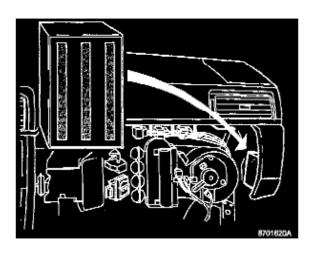
A12

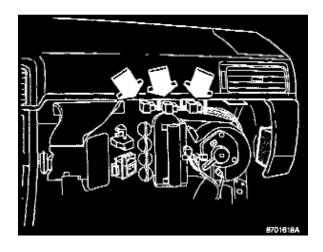
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If there are accessories connected to the accessory cabling, the new cable harness connectors should be connected between the existing ones.

Installing control module from kit

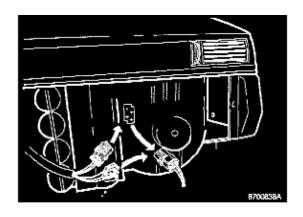
F9 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

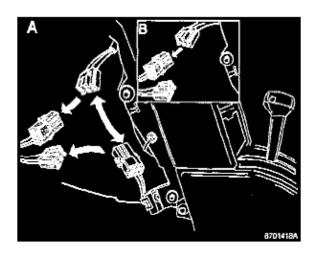
Connect control module and cable harness connectors.

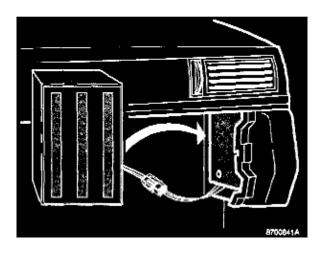
- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

F10 Fastening cables In cars without SRS (Airbag) and knee bolster -

Fasten cable harness and relay to the air hose that runs above the glove compartment to the side defroster with cable ties.







Disconnect the yellow connector from the heater and attach the yellow connector from the cable harness.

- Install the detached connector in the other cable harness yellow connector.

D7 Connection of orange cable -

Route the orange cable with connector to driver's side of centre console.

- Locate the black 4-pin accessories connector. The connector can be connected to accessories (A) or unused (B).
- (A) If accessories are connected, separate connectors and connect them to both connectors on the new cable harness.
- (B) Connect the unused existing black 4-pin connector to one of the new harness connectors. Leave the other connector unused.

Installing control module from kit

D8 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

Connect control module and cable harness connectors.

- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

Diagram Information and Instructions

List of components 1/1 Battery

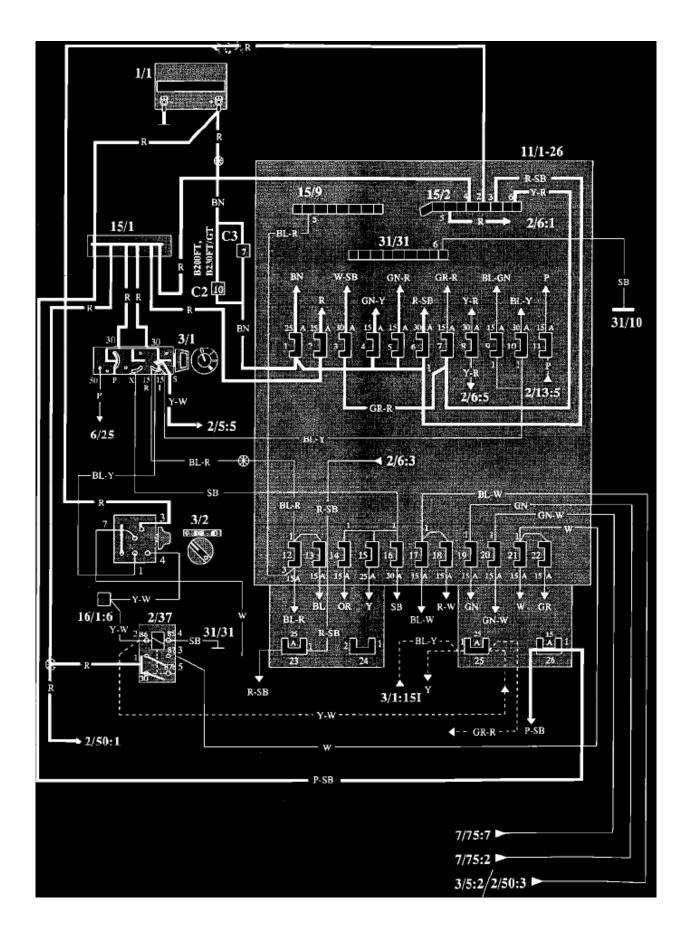
	_		
1/1	Battery	3/52	Switch for power antenna
2/2	Relay, front foglights USA/CDN	3/59 3/66	Beam width control
2/2	Regulator DIM-DIP	3/70	Idle air control (IAC) control, EGR Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6 2/7	Bypass relay 151	4/1 4/2	Overheating protector, driver's seat
2/8	Central locking relay Overdrive relay	4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, RCC
2/13 2/14	Relay, fuel injection (MFI) Relay, glowplug mechanism	4/9 4/10	Sensor module, SRS (airbag) Control module EZ-K (Dl) system
2/15	Relay, exhaust gas temperature sensor	4/15	Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34 2/36	Relay, front foglights Headlight flasher	4/25 4/26	Control module Regina (MFI) system
2/37	Headlight relay	4/20	Power amplifier/ignition coil REX-I (DI) system Control module driver's seat
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49	Relay, rear foglights	4/43	Heater controls
2/50	Bypass relay, high beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch	****	Tableton tomperature sensor
3/4	Cruise control operation	6/1	Windshield wiper motor
3/5	Switch, turn signal/high-low beam	6/2	Washer motor, front
3/6 3/7	Switch, hazard warning flashers Foglight switch	6/3 6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9 3/10	Brake light switch	6/8	Central locking motor, tailgate
3/10	Backup (reversing) light switch Switch, windshield wash/wipe	6/9 6/10	Window lift motor driver's door Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door	6/13	Power door mirror, driver's side
3/16	for driver's door Power window switch, driver's door	6/14 6/15	Power door mirror, passenger's side Motor power sunroof
2,20	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
74719	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door for passenger's side rear	6/19 6/24	Motor fore-aft, driver's seat Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Servo motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23 3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power surrouf	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28 3/29	Switch for heated driver's seat Switch for heated passenger's seat	6/33-2 6/34	Fuel level sensor/pump Power antenna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, left
3/34	Door switch, passenger's side rear	6/39	Actuator, right
3/35 3/36	Door switch, tailgate (5-door estate) Switch, glove compartment	7/4	Broke fluid level sensor
3/37	Horn contacts	7/5	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Qil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40 3/42-1	Start inhibit switch, automatic transmission Switch on transmission	7/9	Engine coolant temperature (ECT) sensor, ECC
3/42-1	Oil pressure sensor, kick-down valve	7/10 7/11	Cubin temperature sensor Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47	Parking trake switch	7/15	Heated oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system
			recitEmpor (arrains) system

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7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A distribution	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

Alarm Module: Electrical Diagrams

Refer to "Accessories and Optional Equipment : Antitheft and Alarm Systems : Diagrams : Electrical".



Relay Box: Locations Fuse/Relay Identification and Location

Fuse/Relay Identification and Location

Electrical Distribution Unit

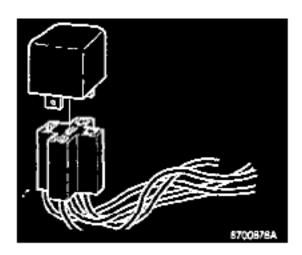
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7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II had had he	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
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10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

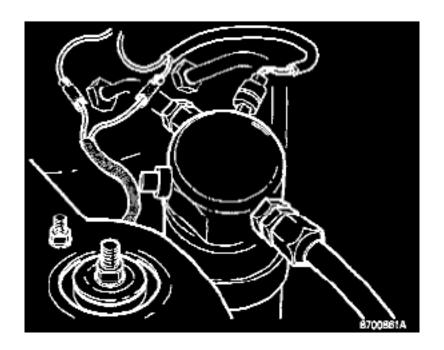
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Power Seat Relay: Electrical Diagrams

Refer to "Body and Frame: Seats: Diagrams: Electrical".

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G1 Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- Section V

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment
- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach, pull out and turn central electronics module.

Refer to Service Manual:

Section 3(35-39) (see group 37) Lighting, instrumentation and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections

G2 Installing new relay on cable harness

- Take out cable harness (P/N 9447729) supplied with kit.
- Install relay supplied in the 5-pin connector.

G3 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet below suspension strut brace.

- Install round housing receptacles supplied with cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.

17/1	Southern and the state of the s	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 2/14 2/15 4/16 4/23 4/25 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher 4/26 4/29 4/40 Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control Starter motor 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 6/33-2 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/5 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid level sensor Switch, brake pedal 7/6 7/7 Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

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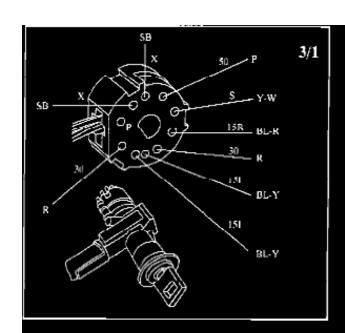
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1041	The minutes of the second of the second	C50	Connector, 8-pin
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Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

Power Seat Control Module: Electrical Diagrams

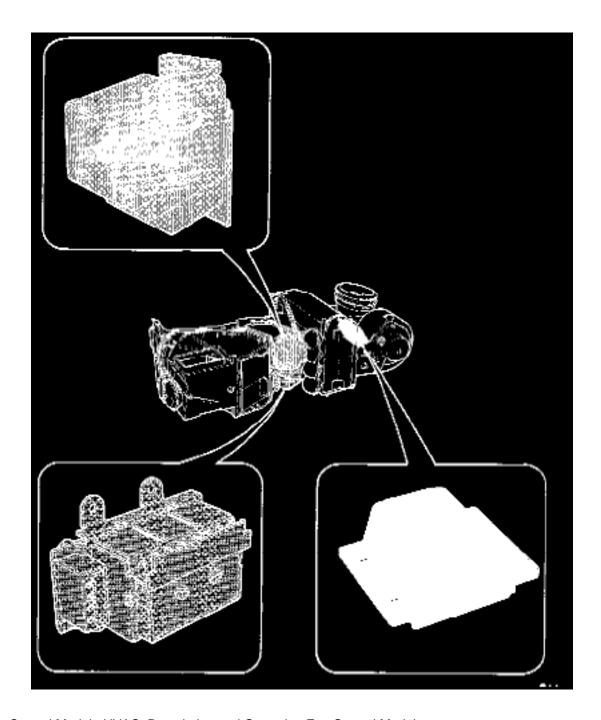
Refer to "Body and Frame: Seats: Diagrams: Electrical".

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 2/14 2/15 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 0/33-2 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/3 7/6 7/7 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid ievel sensor Switch, brake pedal Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification

Fan Control Module

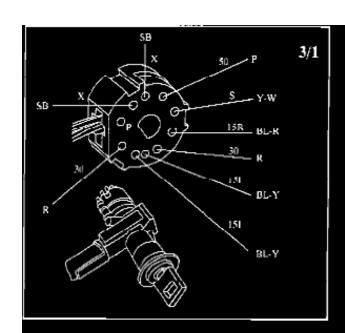


Control Module HVAC: Description and Operation Fan Control Module

- The Power Stage amplifies the control signals to operate the blower motor and control compressor operation.
- The blower speed is controlled by a power transistor. A relay is connected into the circuit at the highest speed reduce the load on the transistor, while a second relay controls the operation of the compressor through the low-pressure pressostat on the air receiver/dryer.

Page 308

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single service of the form	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

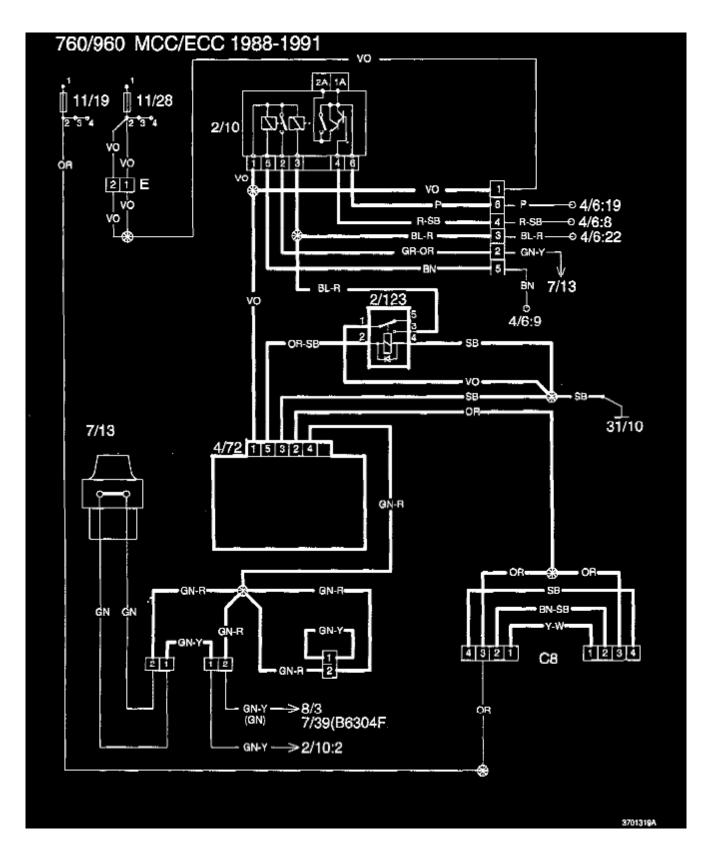
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

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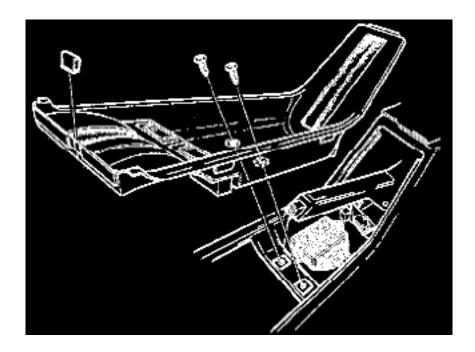


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Refer to "Lighting and Horns: Turn Signals: Diagrams: Electrical".

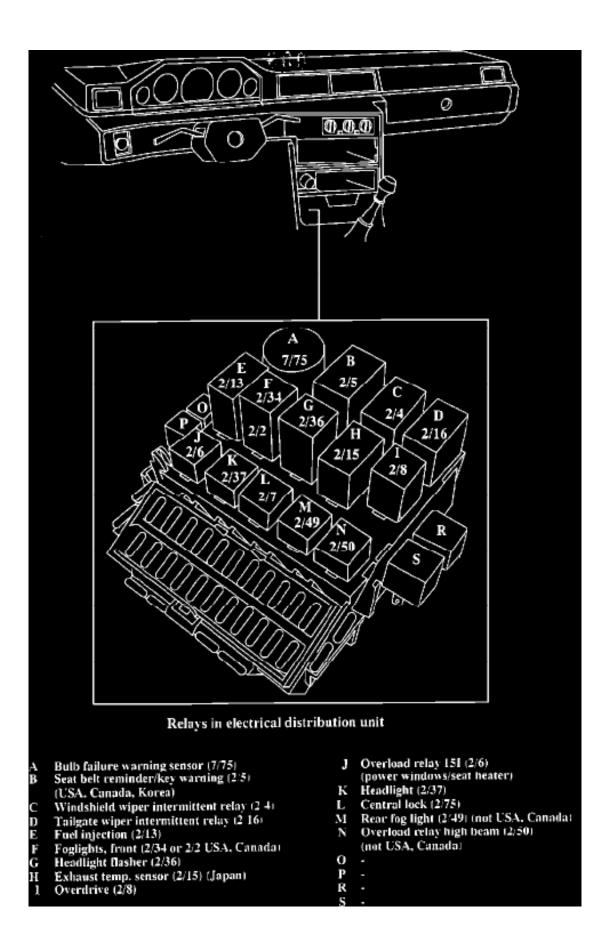
7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

Service and Repair



Oil Level Warning Indicator Control Module: Service and Repair

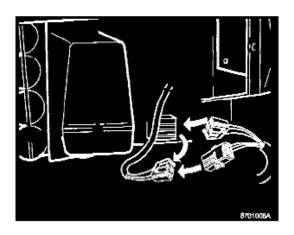
- Remove battery negative lead.
- Remove ashtray and holder.
- Remove clip from front of panel.
- Remove panel screws.
- Lift away panel.
- Remove control module. Control module held by butyl tape.
- Fit new unit.
- Reassemble in reverse order.
- Test.

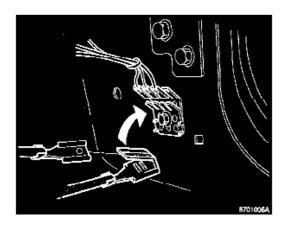


Refer to "Lighting and Horns: Hazard Warning Lamps: Diagrams: Electrical".

17/1	Southern and the state of the s	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		







- Disconnect the yellow connector from the heater and connect the yellow connector from the new cable harness.
- Connect the detached yellow connector to the yellow connector on the cable harness.

Installing control module from kit

E6 Connection and mounting of control module

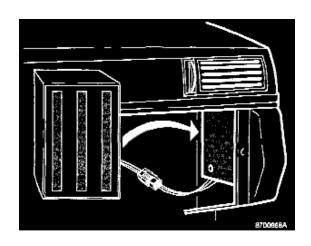
- Connect control module and cable harness connectors together.
- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

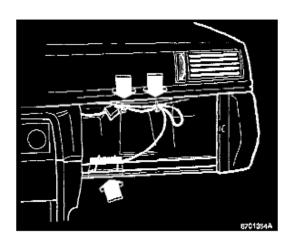
E7 Connection to ground plate -

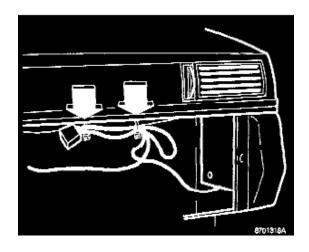
Connect the black-white cable included in the cable harness to the ground plate on the right side of the cowl

The ground plate is located behind the fuel control module. The ground lead has a twin tab terminal for when there are no vacant spaces on the ground plate.

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		







C6 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

Connect control module and cable harness connectors.

- Apply three strips of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

C7 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster -

Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Attach cable harness to existing cable harness at side of SAS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

C8 Fastening cables In cars without SRS (Airbag) and knee bolster -

Attach cable harness to existing cable harness with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

2/10	ECC Power unit
2/22	Air conditioning (A/C) relay
2/123	Airing cycle system relay
2/124	Airing cycle system supply relay
2/125	Airing cycle ground relay
4/6	ECC Control module
4/12	Motranic Control module
4/31	Control module for blower fan motor
4/40	MCC Climate control
4/46	Engine control module (ECM)
4/72	Airing cycle system control module
6/28	Blower fan motor
7/13	Air conditioning (A/C) High-Pressure Switch
7/39	Air conditioning (A/C) Overload switch
7/41	Air conditioning (A/C) High-Pressure Switch
7/53	Air conditioning (A/C) Low-Pressure Switch
8/2	ECC Solenoid valves
8/3	Air conditioning (A/C) Solenoid valves
11/1	Fuses
11C/1-	Fuses in passenger compartment fusebox (960)
20/18	Blower fan resistor
31/6	Ground terminal, LH A-post
31/10	Ground terminal right A-post
55	Blower fan switch
81	Air conditioning pressure switch
131	Engine cooling fan (FC) relay
132	Dalay relay
165	Blower fan
169	Blower fan resistor
200	Control solenoid, A/C Compressor
260	Control module ignition system
485	MCC Climate control system
495	ECC control module
497	Solenoid valves
499	ECC power unit
A	Dashboard connectors
	4-pin (740/940 MCC 1991)
	2-pin (940 MCC 1992)
	10-pin (780)
A1/A	Multi-connector at left A-post
A2/B	Multi-connector under dashboard at left A- post
A11	Connector cable harness passenger compartment - cable harness climate unit, 6-pin

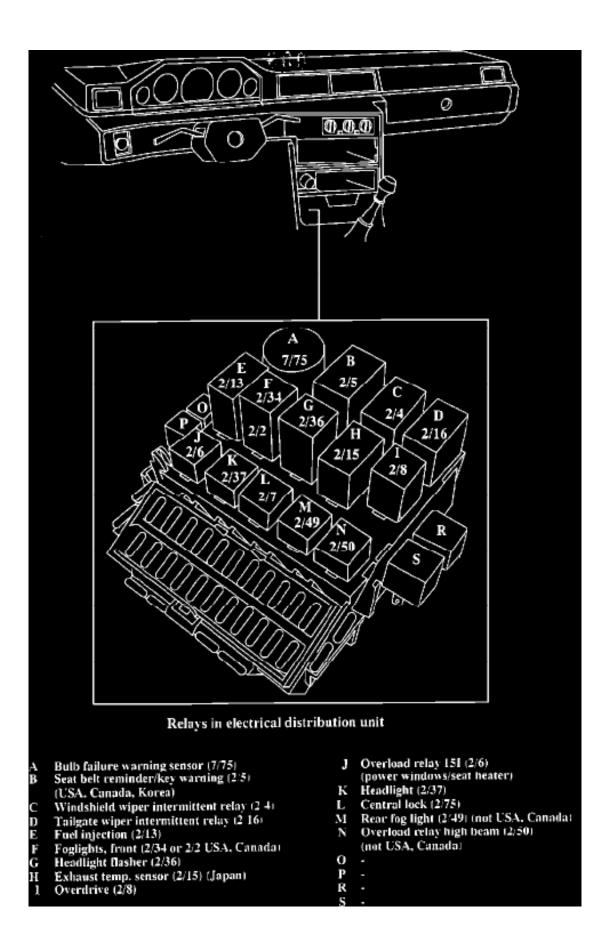


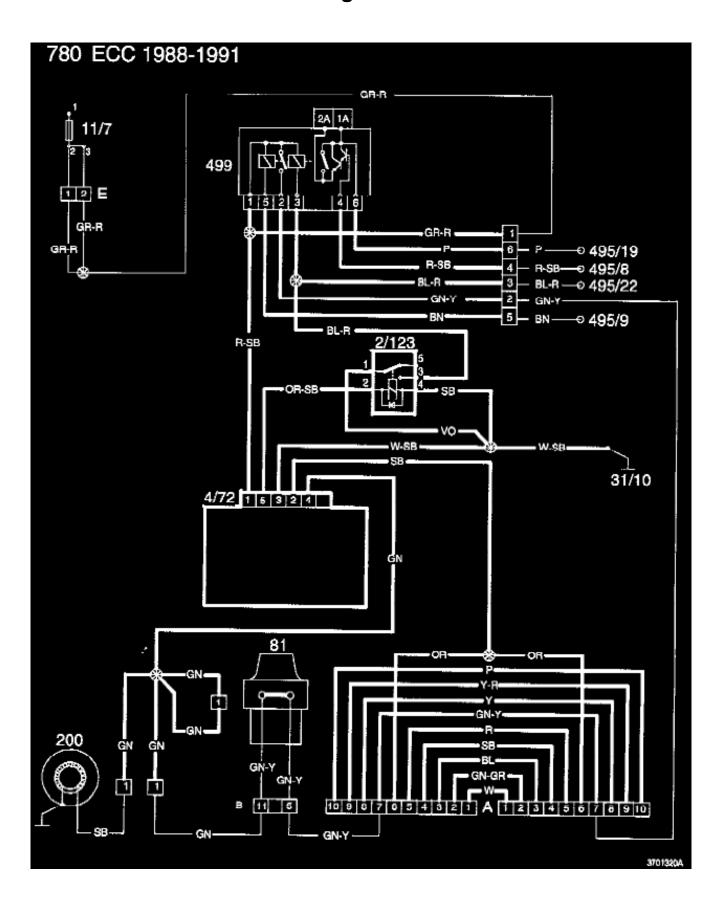
Diagram Information and Instructions

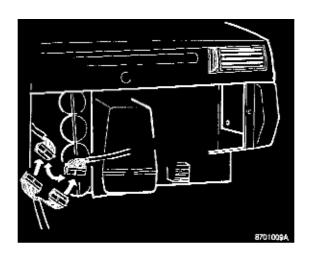
List of components

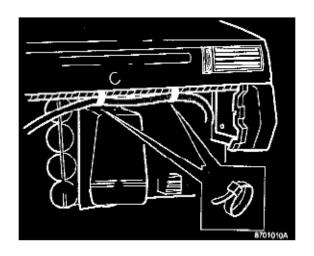
1/1	Battery	3/52	Switch for power antenna
an.	Dalas, from Saaliahte USA (CDN)	3/59	Beam width control
2/2 2/3	Relay, front foglights USA/CDN Regulator DIM-DIP	3/66 3/70	Idle air control (IAC) control, EGR Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6	Bypass relay 15I	4/1	Overheating protector, driver's seat
2/7 2/8	Central locking relay Overdrive relay	4/2 4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, ECC
2/13 2/14	Relay, fuel injection (MFI)	4/9 4/10	Sensor module, SRS (airbag)
2/15	Relay, glowplug mechanism Relay, exhaust gas temperature sensor	4/15	Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34 2/36	Relay, front foglights	4/25	Control module Regina (MFI) system
2/37	Headlight flasher Headlight relay	4/26 4/29	Power amplifier/ignition coil REX-I (DI) system Control module driver's sent
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49	Relay, rear foglights	4/43	Heater controls
2/50	Bypass relay, high beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		Tallotolli tollipeterete sellsol
3/4	Cruise control operation	6/1	Windshield wiper motor
3/5	Switch, turn signal/high-low beam	6/2	Washer motor, front
3/6 3/7	Switch, hazard warning flashers Foglight switch	6/3 6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9 3/10	Brake light switch	6/8	Central locking motor, tailgate
3/12	Backup (reversing) light switch Switch, windshield wash/wipe	6/9 6/10	Window lift motor driver's door Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door	6/13	Power door mirror, driver's side
3/16	for driver's door Power window switch, driver's door	6/14 6/15	Power door mirror, passenger's side Motor power sunroof
2/10	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door	6/19	Motor fore-aft, driver's seat
3/19	for passenger's side rear Power window switch, driver's side rear	6/24 6/25	Vacuum, cruise control Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Serve motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23 3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28 3/29	Switch for heated driver's seat Switch for heated passenger's seat	6/33-2 6/34	Fuel level sensor/pump Power antenna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, lett
3/34 3/35	Door switch, passenger's side rear	6/39	Actuator, right
3/36	Duor switch, tailgate (5-door estate) Switch, glove compartment	7/4	Brake fluid level sensor
3/37	Horn contacts	7/5	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40 3/42-1	Start inhibit switch, automatic transmission Switch on transmission	7/9 7/10	Engine coolant temperature (ECT) sensor, ECC Cubin temperature sensor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fon
3/47 2/50	Parking trake switch Theorite position (TP) switch	7/15 7/16	Heated oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolent temperature (ECT) sensor, fuel/ignition (MFI/DI) system
			taring amon (are those a) mem

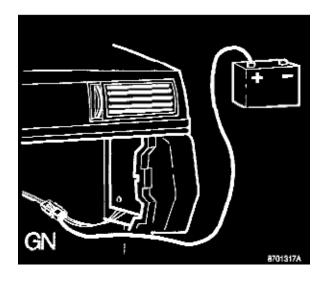
Component Index And Identification

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Separate the halves of the 10-pin connector at the centre console and install the 10-pin connectors from the new cables.

E9 Fastening cables -

Attach the cable harness to the defroster duct above the glove compartment using a cable tie.

Function verification and information

E10 Check airing cycle is working -

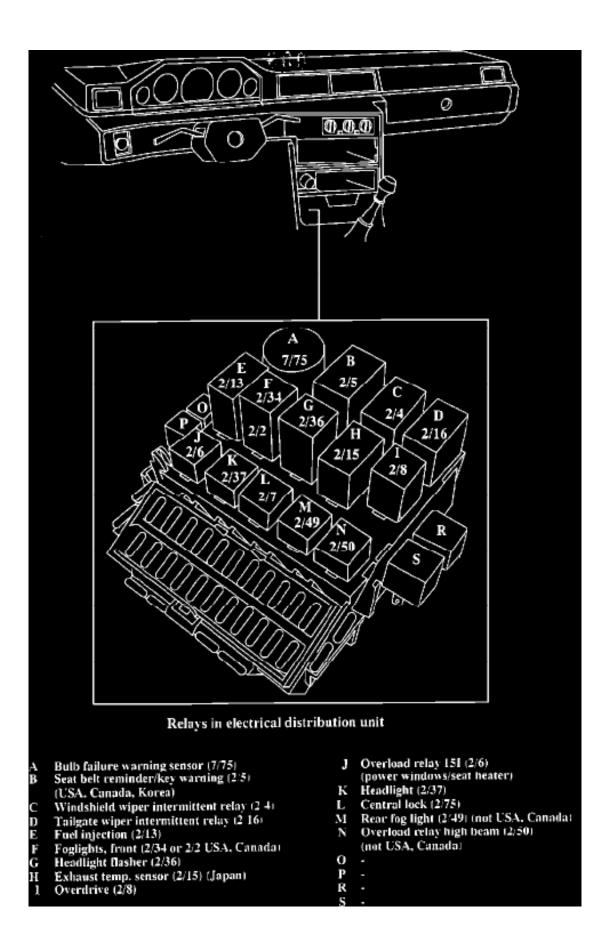
Connect battery lead and start car.

- Turn on A/C system to start compressor.

The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.

- Turn off engine.



Fu	Fuse no. Function		Fuse no. Functions			
1	Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel Solenoid, pulsed secondary air injection (PAIR) (B230FD)			
2	Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Power door mirrors Cigar lighter Radio Tailgate washer			
3	Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor			
4	Brake lights Solenoid P-shift lock Clock	15	Relays, power seats Horn Windshield wash/wipe			
	Vanity mirror Glove compartment lighting Trunk light	16	Headlight wash/wipe Cabin fan, standard heater Cabin fan, Manual Climate Control (MCC)			
	Interior lighting Radio	17	Electronic Climate Control (ECC) Left high beam			
	Power antenna Door-open warning lights	18	Indicator light, high beam Right high beam Relay, front foglights (not USA, Canada)			
	CD-changer Anti-theft alarm Electronic Climate Control (ECC)	19	Left low beam Beam width control			
5	Cabin fan, Electronic Climate Control (ECC)	20	Relay, front foglights Right low beam			
7	Front foglights Rear foglights (not USA, Canada)		Beam width control			
9	Power windows Turn signals Warning lights for seat belts Seat belt reminder	21	Left parking lights, front and rear Number plate lights Instrument and control panel lights Ambient temperature sensor			
	Ignition key warning Bypass relay 15I (power windows/seat heating) Solenoid P-shift lock	22	Relay, front foglights Right parking lights, front and rear Ashtray light, rear			
10	(Towing hook) Heated rear window Power sunroof	23	Automatic transmission selector illumination Lighting, switches and storage compartment in centre console Heated front seats			
11	Heated door mirrors Fuel primer pump in fuel tank (LH-2.4 MFI)	24 25	Spare Rear foglights (not USA, Canada)			
	Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating	26	Disconnectable low beam (Nordic market, Netherlands, Belgium Amplifier, radio			
2	Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan) Cruise control					

Fuse Functions

Diagram Information and Instructions

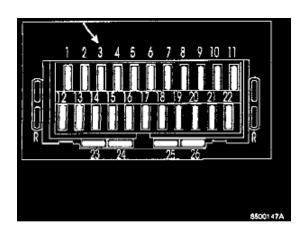
List of components

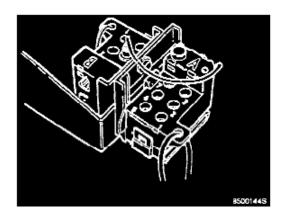
	r i r		
1/1	Battery	3/52	Switch for power antenna
2/2	Relay, front foglights USA/CDN	3/59 3/66	Beam width control Idle air control (IAC) control, EGR
2/2	Regulator DIM-DIP	3/70	Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6	Bypass relay 151	4/1 4/2	Overheating protector, driver's seat
2/7 2/8	Central locking relay Overdrive relay	4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, ECC
2/13	Relay, fuel injection (MFI)	4/9	Sensor module, SRS (airbag)
2/14 2/15	Relay, glowplug mechanism Relay, exhaust gas temperature sensor	4/10 4/15	Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34	Relay, front foglights	4/25	Control module Regina (MFI) system
2/36	Headlight flasher	4/26	Power amplifier/ignition coil REX-I (DI) system
2/37	Headlight relay	4/29	Control module driver's seat
2/38 2/45	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/49	Relay, P-shift lock Relay, rear foglights	4/42 4/43	Control module REX-I (DI) system Heater controls
2/50	Bypass relay, high beam	4/43	Heater controls
		5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		
3/4 3/5	Cruise control operation Switch, turn signal/high-low beam	6/1	Windshield wiper motor
3/6	Switch, hazard warning flashers	6/2 6/3	Washer motor, front Right headlight wiper motor
3/7	Foglight switch	6/4	Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
210	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9 3/10	Brake light switch Backup (reversing) light switch	6/8 G/9	Central locking motor, tailgate Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door	6/13	Power door mirror, driver's side
201	for driver's door	6/14	Power door mirror, passenger's side
3/16	Power window switch, driver's door for driver's side rear door	6/15 6/16	Motor power sunroof Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
2,21	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door	6/19	Motor fore-aft, driver's seat
	for passenger's side rear	6/24	Vacuum, cruise control
3/19 3/20	Power window switch, driver's side rear	6/25	Starter motor Generator
3/21	Power window switch, passenger's side front Power window switch, passenger's side rear	6/26 6/27	Serve motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23	Switch for power door mirror, driver's side	6/29	Engine cooling fan
3/24	Switch for power door mirror, passenger's side	6/30	Washer motor, tailgate
3/25 3/26	Switch for power sunroof	6/31	Fuel pamp
3/26 3/27	Operating module, driver's seat Operating module, passenger's seat	6/32 6/33-1	Tailgate wiper motor Fuel level sensor/primer pump
3/28	Switch for heated driver's seat	0/33-2	Fuel level sensor/primer pump
3/29	Switch for heated passenger's seat	6/34	Power antenna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side from	6/36	Central locking motor, driver's side front
3/33 3/34	Door switch, driver's side rear	6/38 6/39	Actuator, left
3/34	Door switch, passenger's side rear Door switch, tailgate (5-door estate)	0/29	Actuator, right
3/36	Switch, glove compartment	7/4	Brake fluid level sensor
3/37	Horn contacts	7/5	Washer fluid ievel sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40	Start inhibit switch, automatic transmission Switch on transmission	7/9	Engine coolant temperature (ECT) sensor, ECC
3/42-1 3/42-2	Oil pressure sensor, kick-down valve	7/10 7/11	Cabin temperature sensor Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47	Parking brake switch	7/15	Heated oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolant temperature (ECT) sensor,
			fuel/ignition (MFI/DI) system

Component Index And Identification



Refer to "Brakes and Traction Control: Antilock Brakes / Traction Control Systems: Diagrams: Electrical".





- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

- Reinstall fuse No. 3.

Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

Method For Version 4 (D)

960, 1993 4-door models as from chassis No. 018367 5-door models as from chassis No. 012113

Note:

Unlike earlier models, the power seats in the above models can be operated with the ignition off.

D1

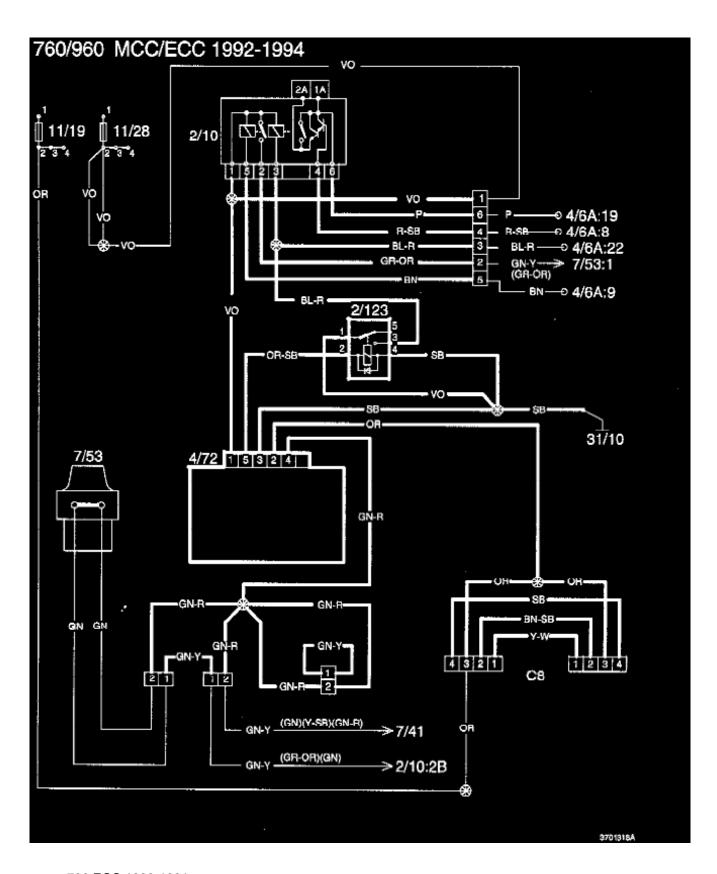
- Switch off ignition.

D2

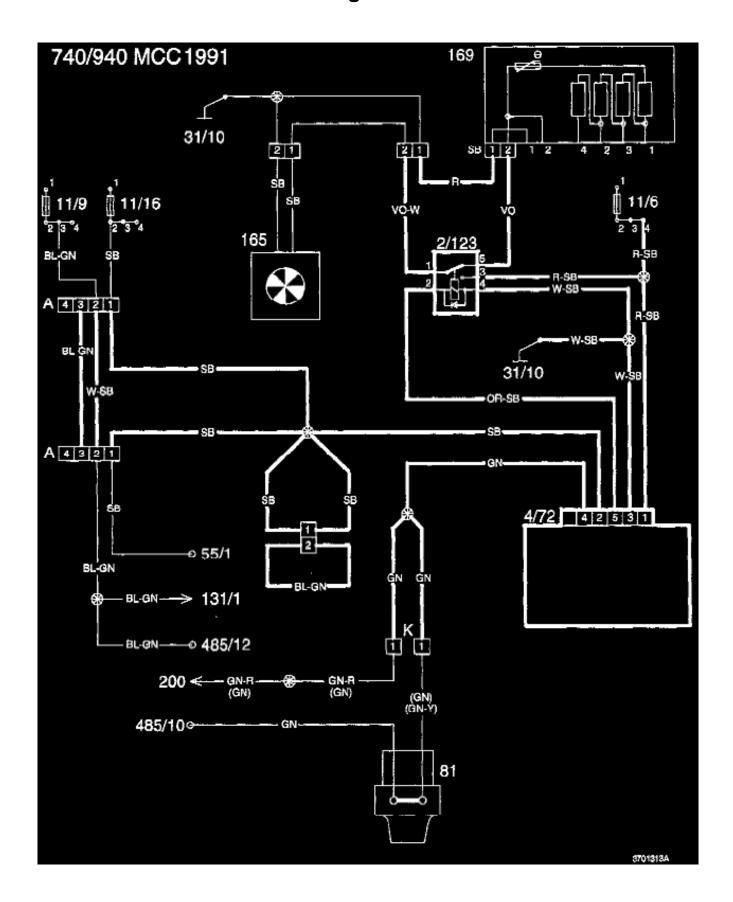
- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration with VST with OBD System Memory Cassette: Connect instrument to DLC B.

D3

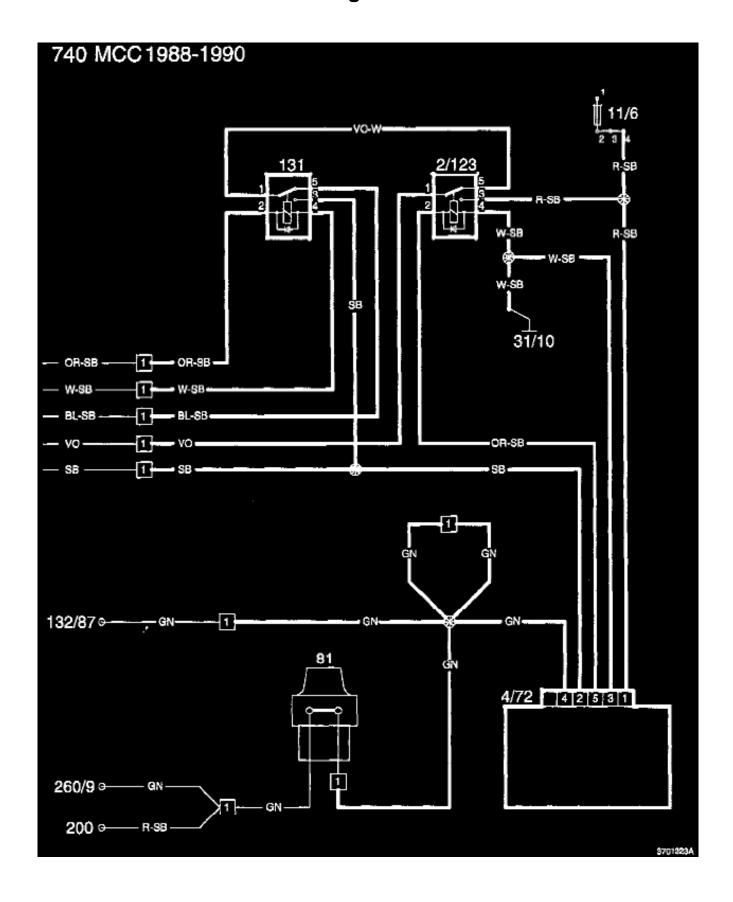
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G9 Securing control module and cables Install relay -

Install clip 1277898 on relay.

- Secure relay on the metal bracket in front of the vacuum tank.

G10 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

G11 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Diagram Wiring Images

740 MCC 1988-1990

В	Connector right A-post (780)
C3/D	Multi-connector under dashboard right-hand side
C8	4-pin accessories connector
C19	2-pin connector at dashboard
C160	6-pin connector at dashboard
C161	1-pin connector at firewall
D10	 4-pin passenger compartment cable harness accessories connector
E	2-pin connector at dashboard
K	1-pin connector at firewall
P	Connector at dashboard
J	Connector at dashboard

Wiring diagrams comments:

Bold lines indicate that the cable is included in the service kit cable harness.

Thin lines indicate that the cable belongs to the car's existing cable harness.

For further descriptions and positions in the carriage, see the car's ordinary wiring diagram.

Warranty Statement

WARRANTY STATEMENT: Claims may be submitted under the New Car Limited Warranty when a manufacturing defect is present using claim type: 01

Operation No. Labor Description Time Allowance

87942-2 Odor from evaporator, installation of blower fan control module

740/940 MCC 88- 1.8 hr

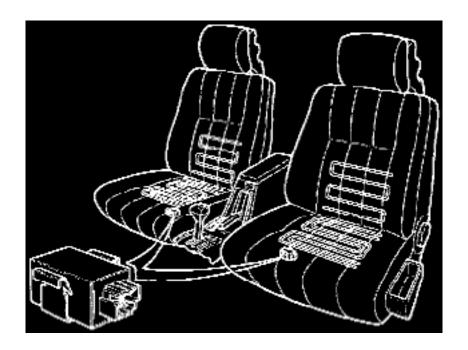
740/940 ECC 91-95 1.7 hr

9401995-ECC 96- 1.8 hr

760/960 88-94 1.8 hr

780 88-91 1.7 hr

960 95-97 1.6 hr



Seat Heater Control Module: Testing and Inspection

Leather or plush trim

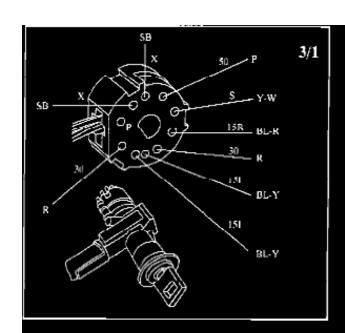
If a fault is suspected, e.g. short circuit in the heater element, bear in mind that:

- Heating will not switch on if the in-car temperature is above +18 °C (64 °F). Full heat output triggers on within 3 6 seconds after start of function check.
- When in-car temperature is between 10 18 $^{\circ}$ C (50 64 $^{\circ}$ F) the heater goes directly to low output. Full output only triggers on when temperature is below 10 $^{\circ}$ C (50 $^{\circ}$ F).
- The control module has two modes for either plush or leather trim, so that trim will not affect heating.

If the above conditions are not fulfilled, but both supply and ground are OK, the module should be replaced.

If supply is missing, check seat heating switch.

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

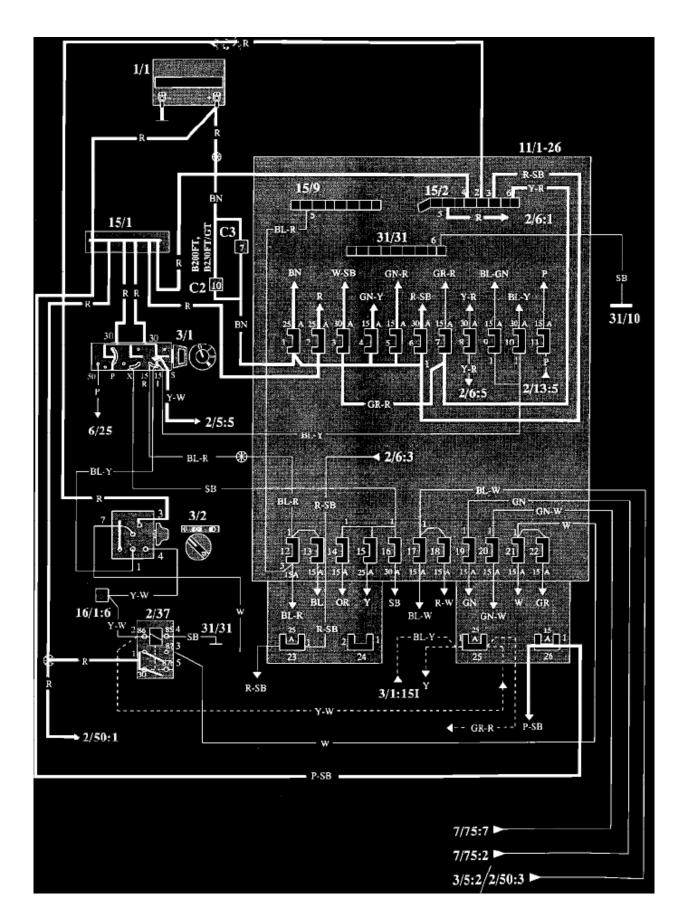
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

Locations



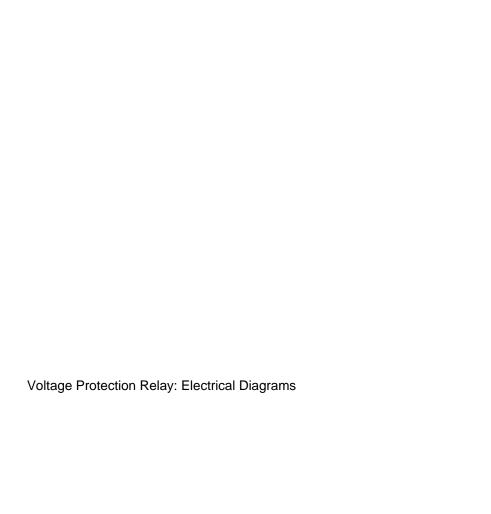
Fuse/Relay Identification and Location

Electrical Distribution Unit

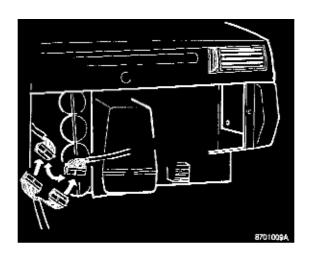
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17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single search of the searc	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consote, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

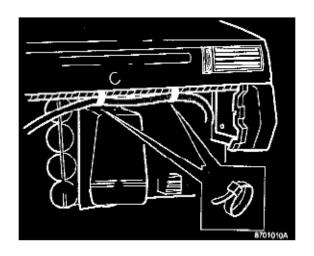
Fuse no. Function	Fus	se no. Functions
1 Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel
Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Solenoid, pulsed secondary air injection (PAIR) (B230FD) Power door mirrors Cigar lighter Radio Tailgate washer
3 Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor
4 Brake lights Solenoid P-shift lock 5 Clock	15	Relays, power seats Horn Windshield wash/wipe
Vanity mirror Glove compartment lighting	16	Headlight wash/wipe Cabin fan, standard heater
Trunk light Interior lighting Radio	17	Cabin fan, Manual Climate Control (MCC) Electronic Climate Control (ECC) Left high beam
Power antenna Door-open warning lights	18	Indicator light, high beam Right high beam
CD-changer Anti-theft alarm Electronic Climate Control (ECC)	19	Relay, front foglights (not USA, Canada) Left low beam Beam width control
Cabin fan, Electronic Climate Control (ECC) Front foglights Rear foglights (not USA, Canada)	20	Relay, front foglights Right low beam Beam width control
Power windows Turn signals	21	Left parking lights, front and rear Number plate lights
Warning lights for seat belts Seat belt reminder Ignition key warning	22	Instrument and control panel lights Ambient temperature sensor Relay, front foglights
Bypass relay 151 (power windows/seat heating) Solenoid P-shift lock (Towing book)		Right parking lights, front and rear Ashtray light, rear Automatic transmission selector illumination
0 Heated rear window Power sunroof	23	Lighting, switches and storage compartment in centre console Heated front seats
Heated door mirrors 1 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI)	24 25	Spare Rear foglights (not USA, Canada) Disconnectable low beam (Nordic market, Netherlands, Belgiun
Oxygen sensor (HO2S) heating 2 Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan)	26	Amplifier, radio
Cruise control Anti-theft alarm		

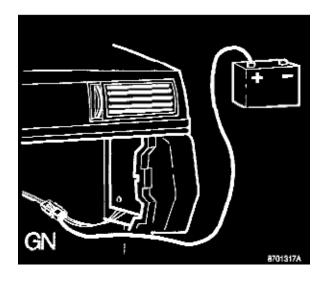
Fuse Functions



Refer to "Brakes and Traction Control: Antilock Brakes / Traction Control Systems: Diagrams: Electrical".







Separate the halves of the 10-pin connector at the centre console and install the 10-pin connectors from the new cables.

E9 Fastening cables -

Attach the cable harness to the defroster duct above the glove compartment using a cable tie.

Function verification and information

E10 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor.

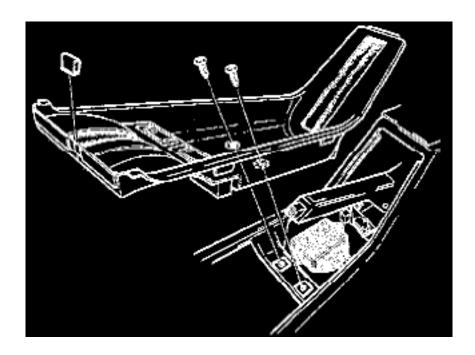
The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.

- Turn off engine.

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
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C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
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-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consote, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
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C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
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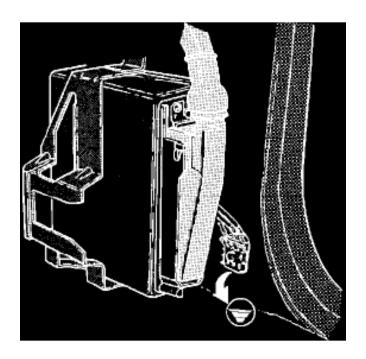
Service and Repair

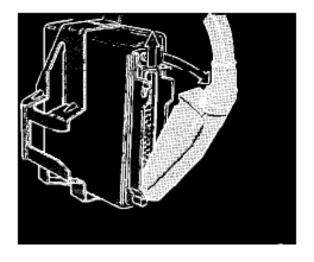


Oil Level Warning Indicator Control Module: Service and Repair

- Remove battery negative lead.
- Remove ashtray and holder.
- Remove clip from front of panel.
- Remove panel screws.
- Lift away panel.
- Remove control module. Control module held by butyl tape.
- Fit new unit.
- Reassemble in reverse order.
- Test.

	COLOR CODES			
SB = Black	BN = Brown	GN = Green		
GR = Grey	Y = Yellow	OR = Orange		
W = White	P = Pink	VO = Violet		
R = Red	BL = Blue	CU = Copper		





Compressor Clutch Relay: Testing and Inspection

Compressor Cut-Off Relay

Color Code Legend

Checking ECU Ground Connections

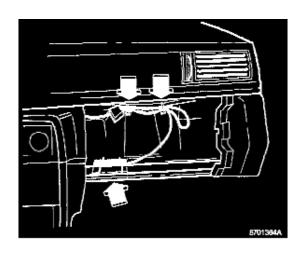
- 1. Turn ignition OFF.
- 2. Access fuel injection ECU by removing the passenger side kick panel and glove compartment.
- 3. Check fuel injection ECU ground connections. They should make good contact and fit tight.

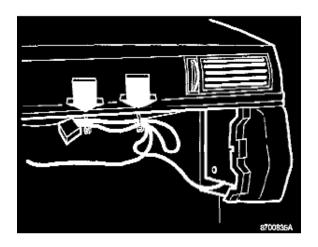
Removing ECU Connector

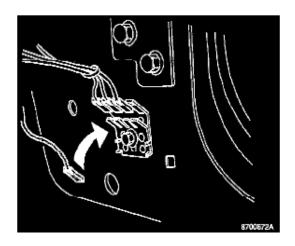
4. Remove fuse #1 (located in central electric unit behind ash tray) to interrupt the power supply. Then remove the ECU connector by pressing up the latch and folding out the wire cluster.

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2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
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	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		







D9 Connecting and mounting control module In cars with SRS (Airbag) and knee bolster -

Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Attach cable harness to existing cable harness at side of SRS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

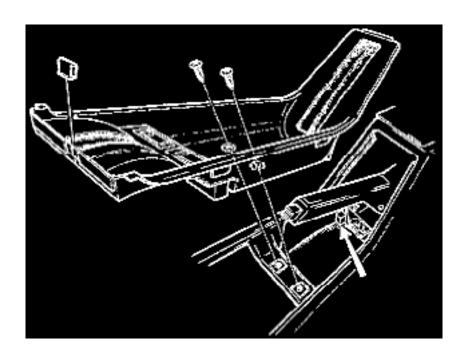
D10 Fastening cables in cars without SRS (Airbag) and knee bolster -

Attach cable harness and the relay in the foam rubber covered hose which passes over the glove compartment to the side defroster with 2 cable ties, one as close to the connector as possible to prevent vibration caused by uneven road surfaces.

D11 Connection to ground plate -

Connect the black-white cable included in the cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.



Seat Heater Relay: Service and Repair

Heated Seat Relay Replacement

Only normal rating, one setting

- Remove battery negative lead.
- Remove ashtray and holder.
- Remove clip at front of panel.
- Remove screws.
- Lift away panel.
- Remove relay.
- Fit new relay.
- Reassemble in reverse order.

Diagram Information and Instructions

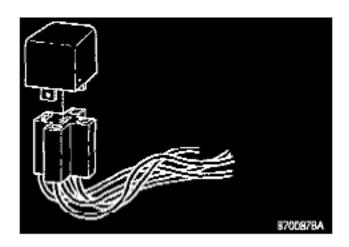
List of components

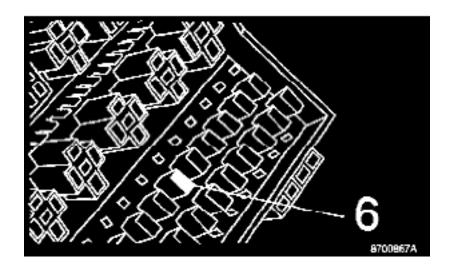
	•		
1/1	Battery	3/52	Switch for power antenna
2/2	Relay, front foglights USA/CDN	3/59 3/66	Beam width control (dle air control (IAC) control, EGR
2/2	Regulator DIM-DIP	3/70	Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5 2/6	Relay, seat belt reminder/ignition key warning	414	Out the state of t
2/6	Bypass relay 151 Central locking relay	4/1 4/2	Overheating protector, driver's seat Overheating protector, passenger's seat
2/8	Overdrive relay	4/3	Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12 2/13	Relay, radio interference suppression Relay, fuel injection (MFI)	4/K 4/9	Control module, FCC Server module, SPS (sighes)
2/14	Relay, glowplug mechanism	4/10	Sensor module, SRS (airbag) Control module EZ-K (DI) system
2/15	Relay, exhaust gas temperature sensor	4/15	Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18 2/34	Transient protector, ABS	4/23 4/25	Control module LH-jetronic 2.4 (MFI) system
2/36	Relay, front foglights Headlight flasher	4/26	Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system
2/37	Headlight relay	4/29	Control module driver's sent
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49 2/50	Relay, rear foglights Bypass relay, high beam	4/43	Heater controls
2/30	Dypass reiny, nigh beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		
3/4	Cruisc control operation	6/1	Windshield wiper motor
3/5 3/6	Switch, turn signal/high-low beam Switch, hazard warning flashers	6/2 6/3	Washer motor, front Plobs handlight when every
3/7	Foglight switch	6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
3/9	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/10	Brake light switch Backup (reversing) light switch	6/8 6/9	Central locking motor, tailgate Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door for driver's door	6/13 6/14	Power door mirror, driver's side Power door mirror, passenger's side
3/16	Power window switch, driver's door	6/15	Motor power sunroof
	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
3/18	for passenger's side front Power window switch, driver's door	6/18 6/19	Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat
5/10	for passenger's side rear	6/24	Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Servo motor, throttle control
3/22 3/23	Switch for rear power window lifts Switch for power door mirror, driver's side	6/28 6/29	Cabin fan motor Engine cooling fan
3/24	Switch for power door mirror, arriver's side	6/30	Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27 3/28	Operating module, passenger's seat Switch for heated driver's seat	6/33-1 6/33-2	Fuel level sensor/primer pump Fuel level sensor/pump
3/29	Switch for heated passenger's seat	6/34	Power antonna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33 3/34	Door switch, driver's side rear	6/38	Actuator, lett
3/34	Door switch, passenger's side rear Door switch, tailgate (5-door estate)	6/39	Actuator, right
3/36	Switch, glove compartment	7/4	Broke fluid level sensor
3/37	Horn contacts	7/2	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39 3/40	Switch, ciutch pedal Start inhibit switch, automatic transmission	7/7	Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC
3/42-1	Switch on transmission	7/9 7/10	Engine coolant temperature (EC1) sensor, ECC Cabin temperature sensor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47 3/50	Parking brake switch Throttle position (TP) switch	7/15 7/16	Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor,
21,210	Throate position (117) Switch	7/10	fuel/ignition (MFI/DI) system
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Component Index And Identification

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
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31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
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	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
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C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
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C22	Connector, at tailgate, 6 ptil (5-door)	C163	
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C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

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700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach, pull out and turn central electronics module.

See section 37 in Service Manuals:

Section 3(35-39) Lighting, instrumentation and other electrical equipment 700/900 1982-

Section 8(82-86,88) Interior, exterior 700/900 1982-

Cable connections A2 Installing new relay on cable harness -

Take out cable harness (P/N 9148755) supplied with kit.

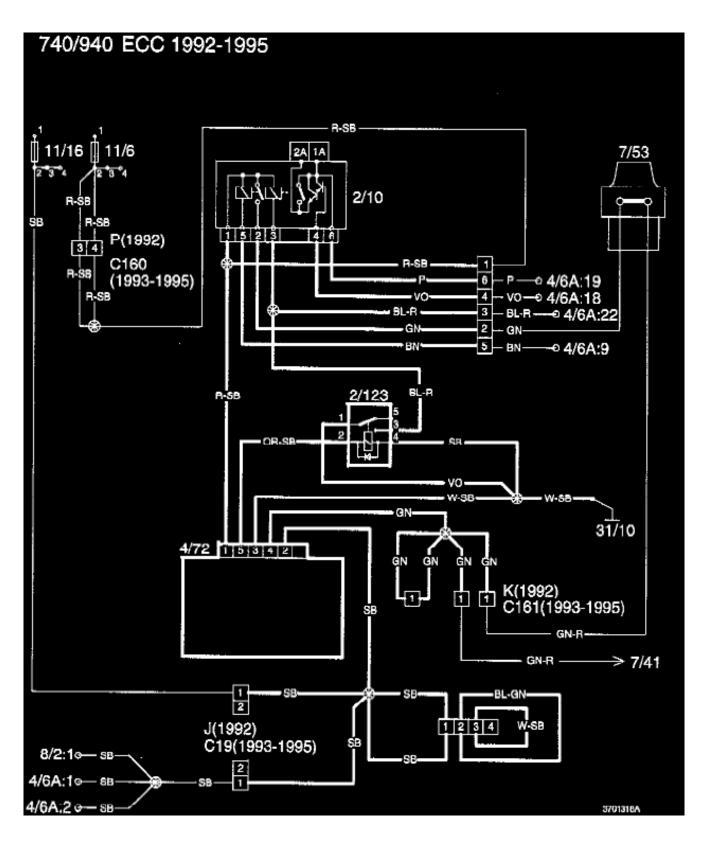
- Connect the relay in the kit to the 5-pin connector which is attached to the same end of the cable harness as the black-red cable.

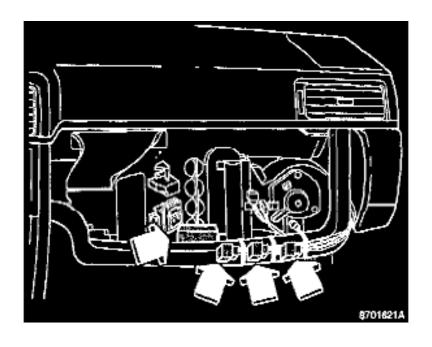
A3 Attaching new cable harness with relay -

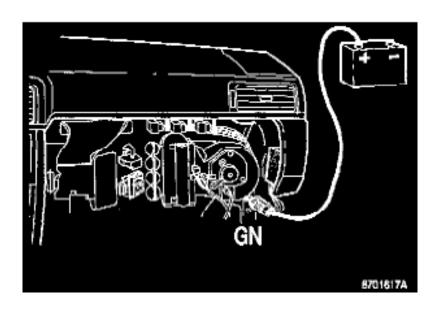
Connect relay and cable harness above the heater vacuum reservoir, using a cable tie.

- Route the red-black cable inside the centre console right side panel to the central electronics module.
- Connect cable to central electronics module fuse 6 and terminal 4.
- Use cable tie to attach to existing cable harness.

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F11 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster -

Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Locate cable harness with relays between air hose and knee bolster.

NOTE:

Prevent condensation dropping onto relays by ensuring that they are not placed beneath the air hose.

- Fasten to air hose with cable ties.

Installing control module from kit.

F12 Function verification and information Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is running.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

F13 Finishing off -

Reinstall all components removed.

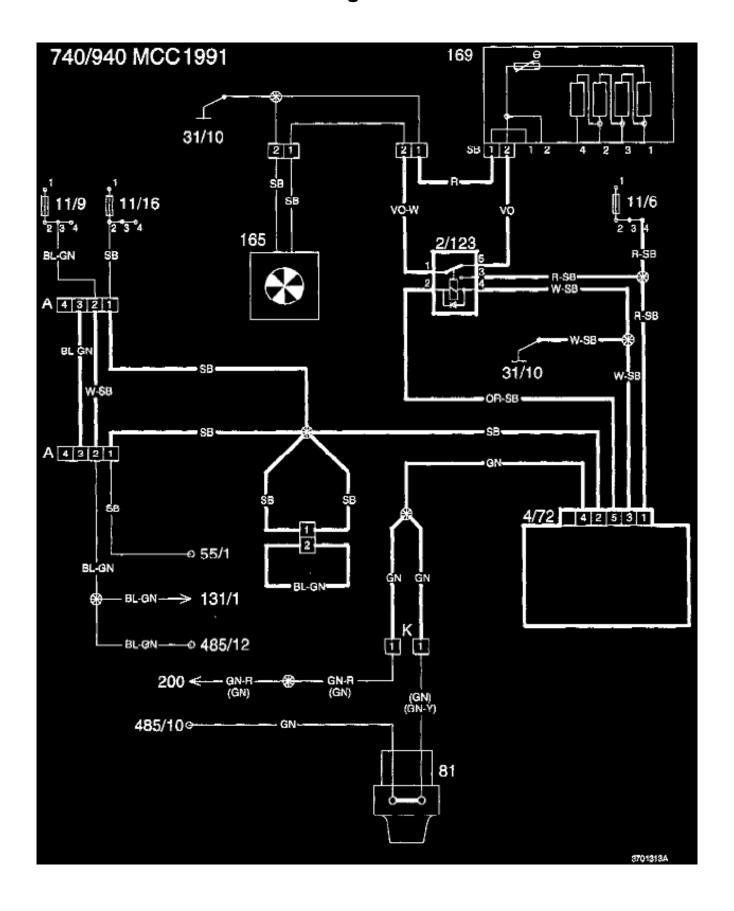
- Reset the clock and enter the anti-theft radio code if required.

F14 Information to Car Owner Carry out operations at the end of this service bulletin.

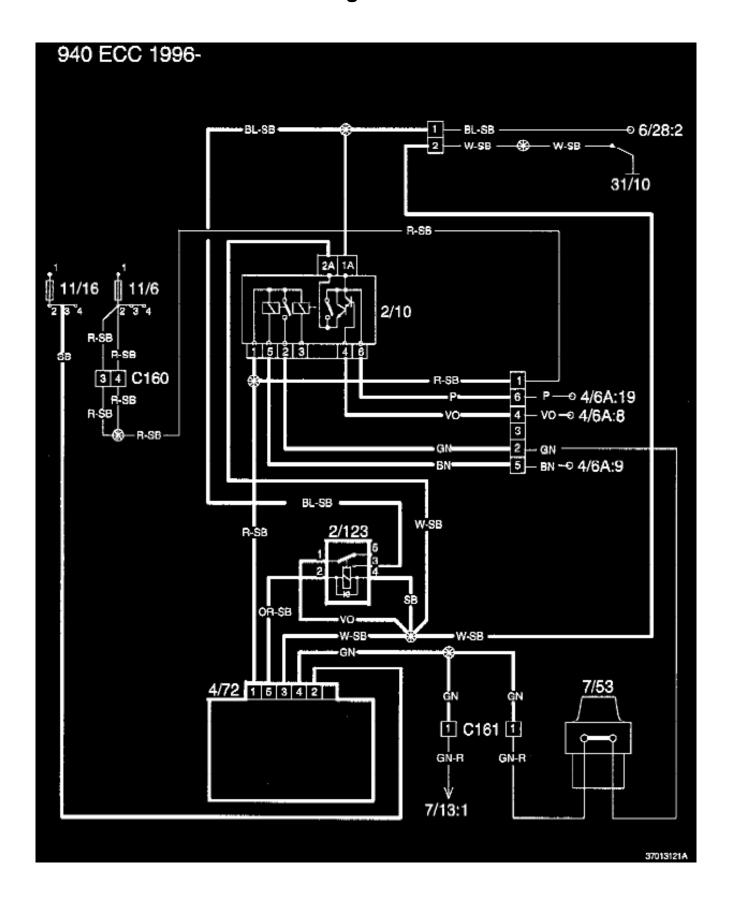
Installing Control Module/Cable 940 W/ECC 1996-

Installing control module and cables 940 with ECC model year 1996-

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740/940 MCC	1991 -	9148653-0	7/B	34, 35, 36
740/940 ECC	1991 - 95	9148554-8	12 / C	37, 38
760/960 MCC/ECC	1988 - 94	9148655-5	16 / D	39, 40
780 ECC	1988 - 91	9162435-3	20 / E	41
960 MCC/ECC	1995 -	9171003-8	24 / F	42
S90/V90 MCC/ECC	1997 -	9171003-8	24 / F	43
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SECTION

8

GROUP

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NO. 955

DATE Sept. 1997

RE: Odor from evaporator 700/900/S90/V90 1988-

REFERENCE: TP 8701201, SECTION 8(87) CLIMATE UNITS: 700/900 1992- TP 3701201, SECTION 3(37) WIRING REPAIRS, AND REPLACEMENT OF CABLE TERMINALS; 850900 TP 3502201, SECTION 3(35-39) LIGHTING, INSTRUMENTATION AND OTHER ELECTRICAL EQUIPMENT; 700/900 1982-

SERVICE BULLETIN 87-948, EVAPORATOR ODOR TREATMENT

This Service Bulletin replaces earlier Service Bulletin 87-955 from September 1996, which should be discarded.

Odor from evaporator, installation of blower fan control module

Under humid conditions the ECC unit can cause an unpleasant odor on start-up, especially when the temperature outside is high. This Odor often disappears when humidity levels drops. The Odor can be caused by dirt or micro-organisms in the evaporator.

A control module can be installed to eliminate the recurrence of the Odor. This starts the blower fan and airs residual dampness out of the evaporator.

If the compressor has been running more than 4 minutes and the ignition is then turned off for 50 minutes, the control module starts the blower fan automatically and runs an airing out cycle at max. Blower speed for approximately 5 minutes.

Special tools needed: Wiring repair kit, P/N 9814235-9

NOTE:

After installing the airing cycle unit, copy and attach the last page.

Installing Control Module and Cables/740 MCC 1988-90

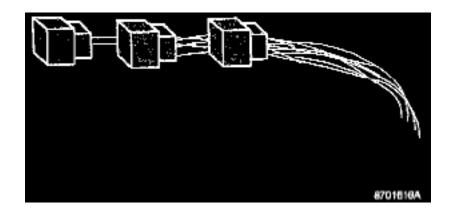
Installing control module and cables 740 MCC model year 1988-90

A1 Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

E11 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

E12 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Install. Control Module/Cable 960-S90-V90 MCC/ECC 95-97

Installing control module and cables 960 MCC/ECC model year 1995- S90/V90 MCC/ECC model year 1997-

F1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.

Refer to Service Manual:

Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections

F2 Installing new relay on cable harness Take out cable harness, P/N 9171004-6, included in kit. - Install 3 relays included in the 5-pin connector.

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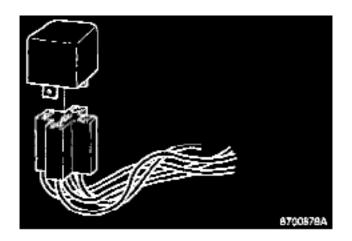
Diagram Information and Instructions

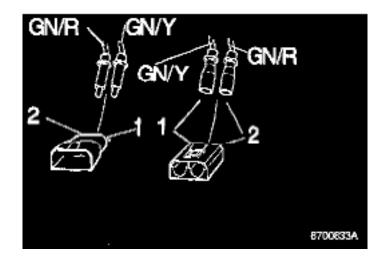
List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 2/14 2/15 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control Starter motor 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 0/33-2 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/5 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid level sensor Switch, brake pedal 7/6 7/7 Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

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7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
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-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
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7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
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8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		





C13 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Install. Control Module/Cables 760/960 W/MCC-ECC 1988-94

Installing control module and cables 760/960 MCC/ECC model year 1988-94

D1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on left and right sides.
- Glove compartment.
- Cowl on passenger side.

Refer to Service Manual: Section 8(82-86, 88) Interior, exterior 700/900 1982- Cable connections

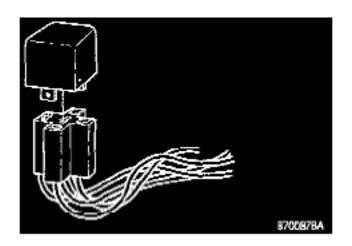
D2 Installing new relay on cable harness -

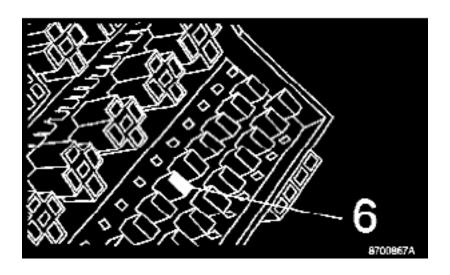
Take out cable harness (P/N 9148758) supplied with kit.

- Install relay supplied in the 5-pin connector.

Refer to "Body and Frame: Locks: Diagrams: Electrical".

Page 190





700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach, pull out and turn central electronics module.

See section 37 in Service Manuals:

Section 3(35-39) Lighting, instrumentation and other electrical equipment 700/900 1982-

Section 8(82-86,88) Interior, exterior 700/900 1982-

Cable connections A2 Installing new relay on cable harness -

Take out cable harness (P/N 9148755) supplied with kit.

- Connect the relay in the kit to the 5-pin connector which is attached to the same end of the cable harness as the black-red cable.

A3 Attaching new cable harness with relay -

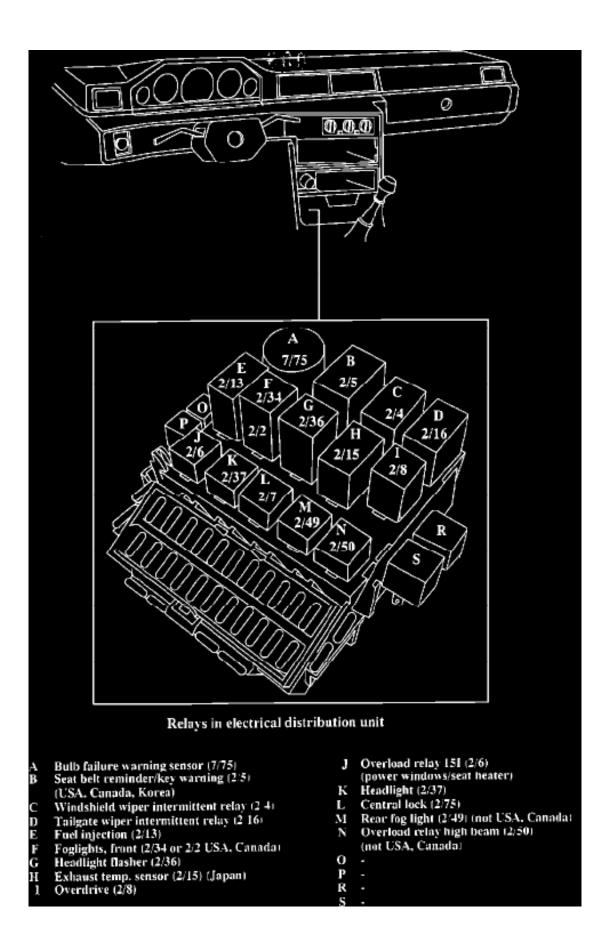
Connect relay and cable harness above the heater vacuum reservoir, using a cable tie.

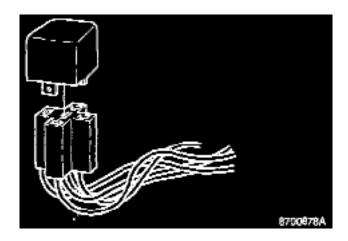
- Route the red-black cable inside the centre console right side panel to the central electronics module.
- Connect cable to central electronics module fuse 6 and terminal 4.
- Use cable tie to attach to existing cable harness.

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		





terminal 6, for at least 30 seconds while compressor is operating.

- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

B14 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

B15 Information to car owner -

Carry out operations at the end of this service bulletin.

Installing Control Module/Cables/740/940 W/MCC 1991-95

Installing control module and cables

C1 740/940 with ECC model year 1991-95

Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Disconnect negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

Refer to Service Manual:

Section 3(35-39) Lighting, (see group 37) Instrumentation and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections

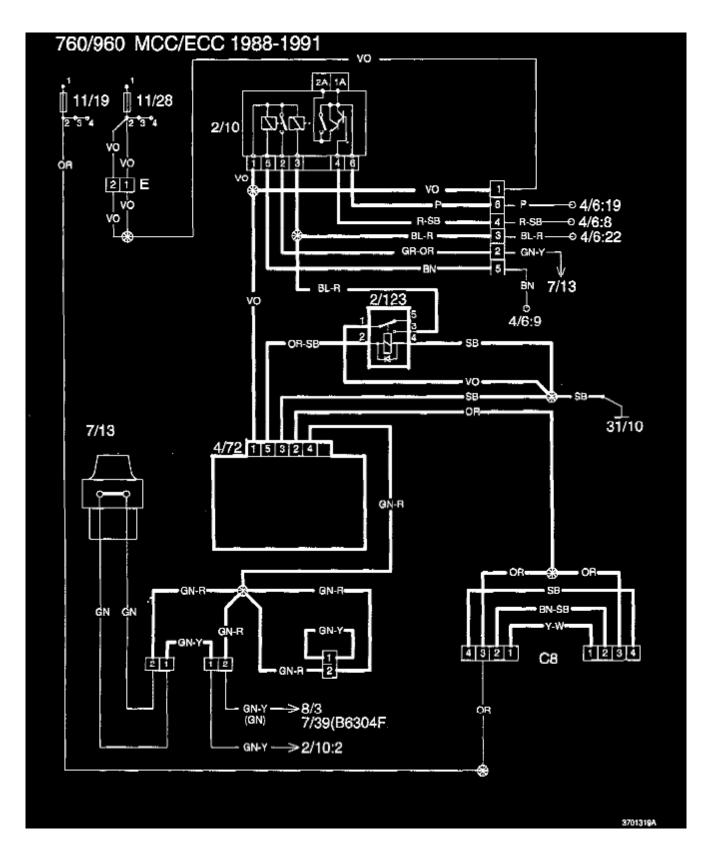
C2 Installing new relay on cable harness -

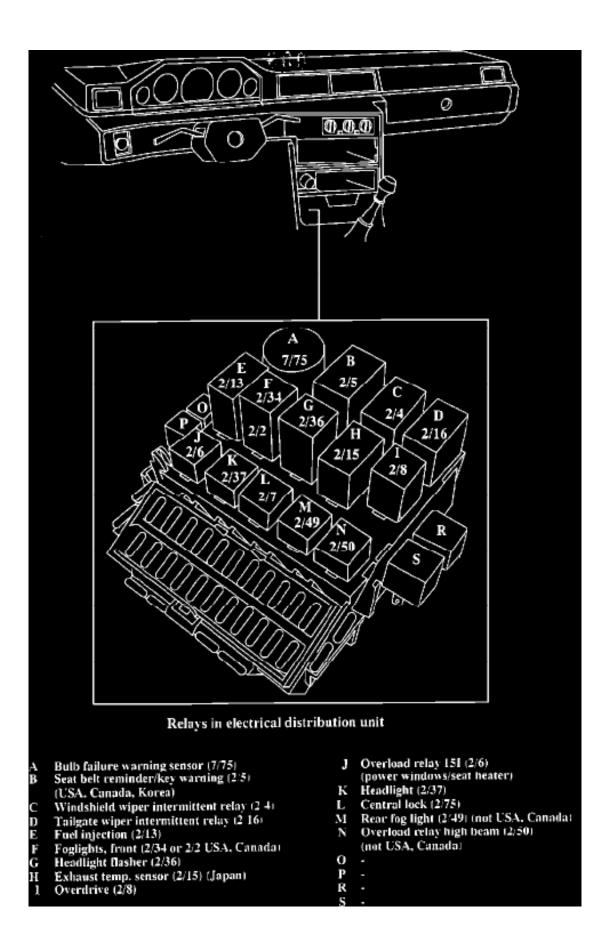
Take out cable harness (P/N 9148757) supplied with kit.

- Install relay supplied in the 5-pin connector.

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single service of the form	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

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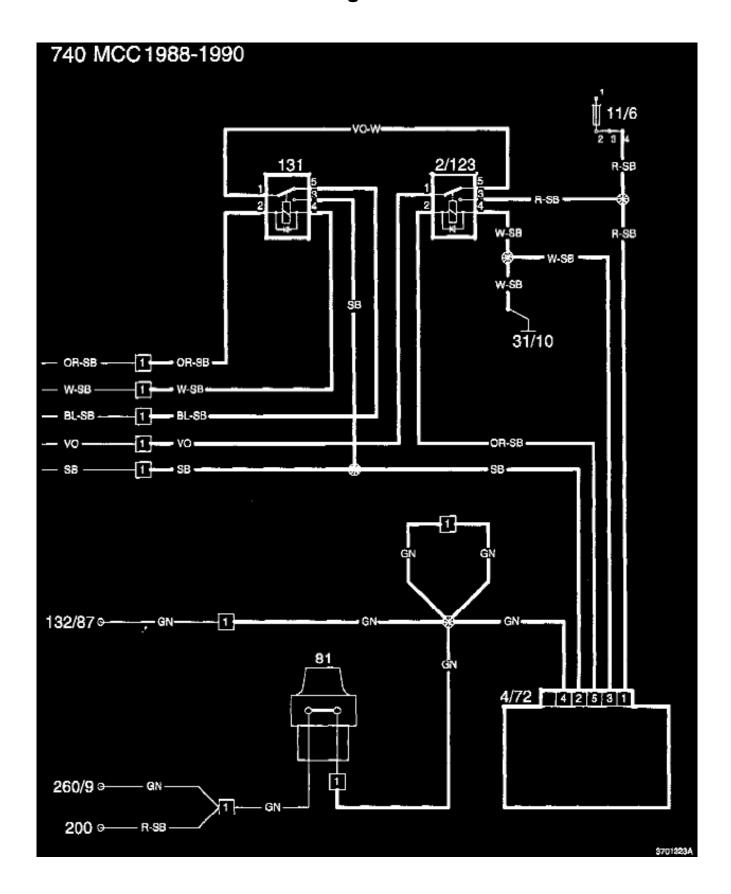




Fu	se no. Function	Fus	e no. Functions
1	Fuel pump (LH-2.4 MFI)	13	Fuel valve, diesel
	Fuel system		Pre-heating mechanism, diesel
	Direct Ignition (DI) system		EGR diesel
	Oxygen sensor (HO2S) heating (B200/230FT)		Solenoid, pulsed secondary air injection (PAIR) (B230FD)
2	Hazard warning flashers	14	Power door mirrors
	Headlight flasher (via fuse 17 and 18)		Cigar lighter
	Central locking		Radio
	Anti-theft alarm		Tailgate washer
3	Power seats		Tailgate wiper
	(Towing hook)		Ambient temperature sensor
	Brake lights	15	Relays, power seats
	Solenoid P-shift lock		Horn
5	Clock		Windshield wash/wipe
	Vanity mirror		Headlight wash/wipe
	Glove compartment lighting	16	Cabin fan, standard heater
	Trunk light		Cabin fan, Manual Climate Control (MCC)
	Interior lighting		Electronic Climate Control (ECC)
	Radio	17	Left high beam
	Power antenna		Indicator light, high beam
	Door-open warning lights	18	Right high beam
	CD-changer		Relay, front foglights (not USA, Canada)
	Anti-theft alarm	19	Left low beam
6	Electronic Climate Control (ECC)		Beam width control
	Cabin fan, Electronic Climate Control (ECC)		Relay, front foglights
,	Front foglights	20	Right low beam
	Rear foglights (not USA, Canada)		Beam width control
ĸ	Power windows	21	Left parking lights, front and rear
í	Turn signals		Number plate lights
	Warning lights for seat belts		Instrument and control panel lights
	Seat belt reminder		Ambient temperature sensor
	Ignition key warning	22	Relay, front foglights
	Bypass relay 15I (power windows/seat heating)		Right parking lights, front and rear
	Solenoid P-shift lock		Ashtray light, rear
	(Towing book)		Automatic transmission selector illumination
10	Heated rear window		Lighting, switches and storage compartment in centre console
ď	Power sunroof	23	Heated front seats
	Heated door mirrors	24	Spare
11	Fuel primer pump in fuel tank (LH-2.4 MFI)	25	Rear foglights (not USA, Canada)
	Fuel pump in tank (Regina MFI)		Disconnectable low beam (Nordic market, Netherlands, Belgius
	Oxygen sensor (HO2S) heating	26	Amplifier, radio
12	Backup (reversing) lights		
	Overdrive relay		
	Bulb failure sensor with brake monitor		
	Exhaust temperature sensor (Japan)		
	Cruise control		
	GI WISC COURT OF		

Fuse Functions

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G9 Securing control module and cables Install relay -

Install clip 1277898 on relay.

- Secure relay on the metal bracket in front of the vacuum tank.

G10 Finishing off -

Reinstall all components removed.

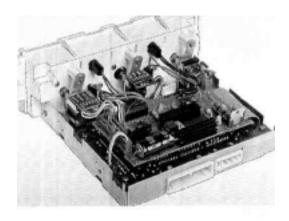
- Reset the clock and enter the anti-theft radio code if required.

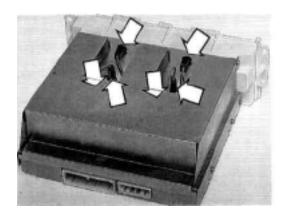
G11 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Diagram Wiring Images

740 MCC 1988-1990



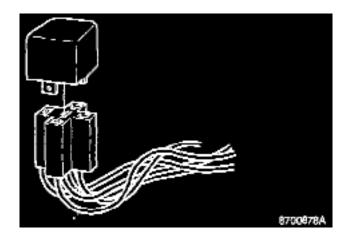


Control Module HVAC: Description and Operation Electronic Climate Control Module

The control module is located behind the control panel. Under normal circumstances, the cover need never be removed.

Lamps

The six lamps on the control module can be replaced without removing the cover.



terminal 6, for at least 30 seconds while compressor is operating.

- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

B14 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

B15 Information to car owner -

Carry out operations at the end of this service bulletin.

Installing Control Module/Cables/740/940 W/MCC 1991-95

Installing control module and cables

C1 740/940 with ECC model year 1991-95

Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Disconnect negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

Refer to Service Manual:

Section 3(35-39) Lighting, (see group 37) Instrumentation and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

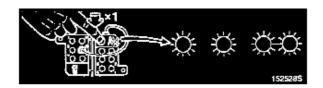
Cable connections

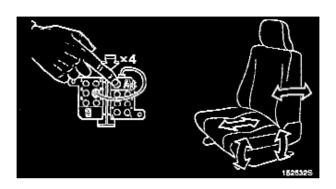
C2 Installing new relay on cable harness -

Take out cable harness (P/N 9148757) supplied with kit.

- Install relay supplied in the 5-pin connector.

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		





Oper. No.	Labor Description	Time Allowance
852003	Power seat, diagnostic check	0.2 hr

E3

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

E4

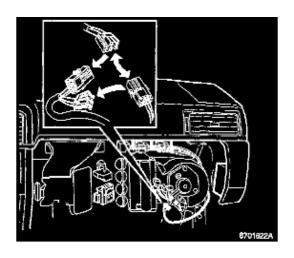
- Diagnostic system must now be activated within 2 minutes, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

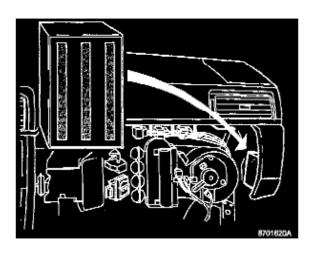
Control module will exit diagnostic function after approx. 2 minutes if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

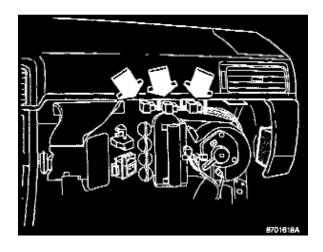
Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

repair within the respective area.					

The illustrated operation number may only be added to a claim in conjunction with a warrantable







If there are accessories connected to the accessory cabling, the new cable harness connectors should be connected between the existing ones.

Installing control module from kit

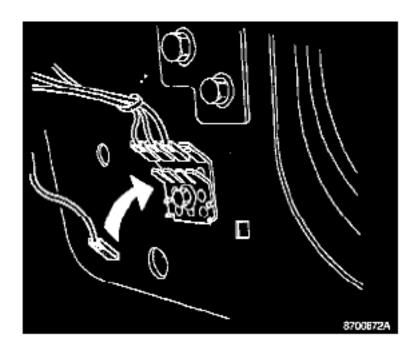
F9 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

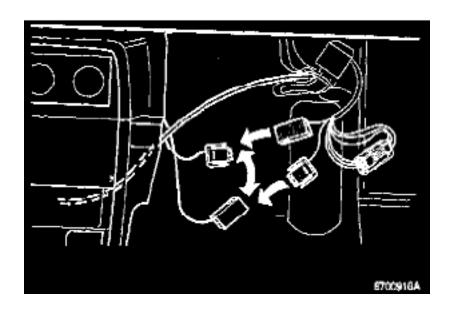
Connect control module and cable harness connectors.

- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

F10 Fastening cables In cars without SRS (Airbag) and knee bolster -

Fasten cable harness and relay to the air hose that runs above the glove compartment to the side defroster with cable ties.





C9 Connection to ground plate -

Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.

C10 Cable harness connections -

Locate connector on cable harness between heater and dashboard (on side of centre console). Separate connector and connect new and old connectors for each model year:

1991 model year: -

Connect 4-pin connectors, which have 3 cables and are included in the kit cable harness, to existing connectors.

92-94 model year (shown here): -

Connect 2-pin connectors, with 1 cable included in the kit cable harness, to existing connectors.

- Connect connectors not connected to existing cable harness, to each other.

Function verification and information

C11 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor.

The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.

- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

C12 Finishing off

- Replace all parts removed.
- Reset the clock and enter the anti-theft radio code if required.

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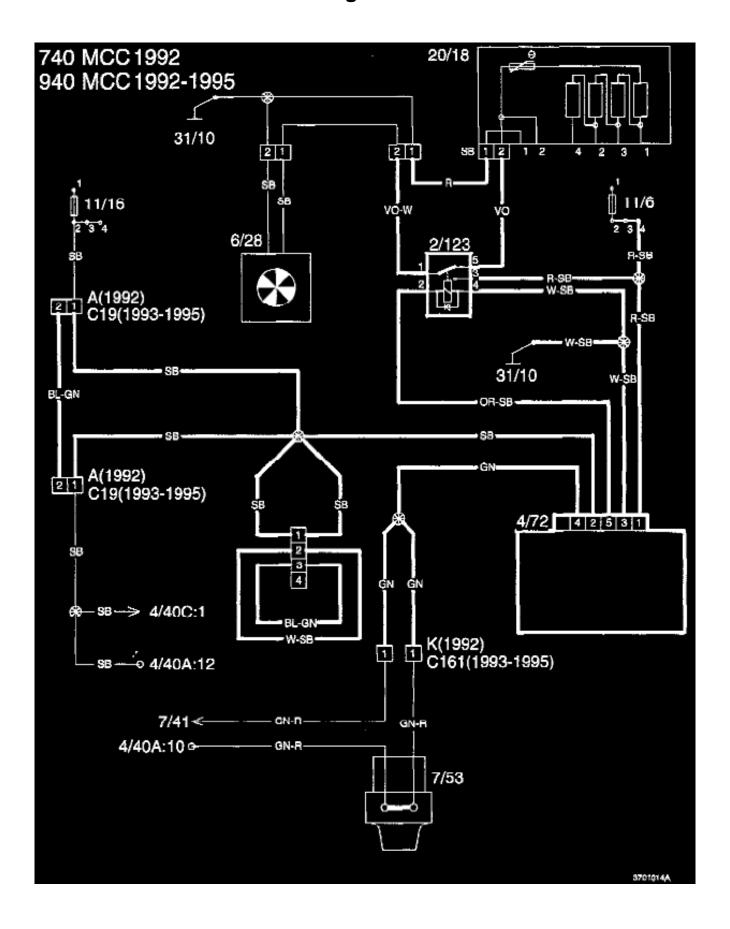


Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear Vacuum, cruise control 3/20 3/21 3/22 Generator Servo motor, throttle control

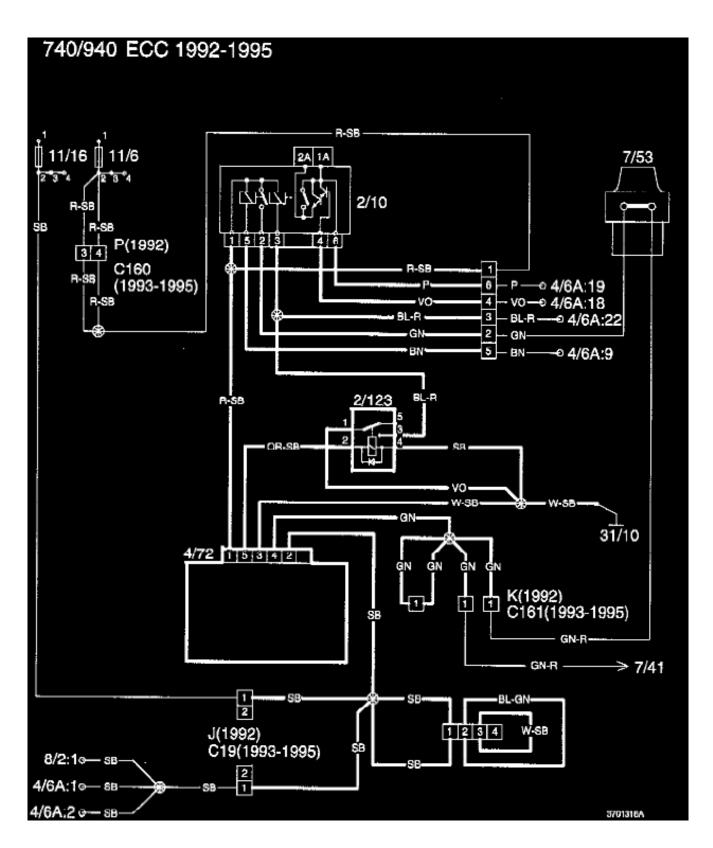
Component Index And Identification

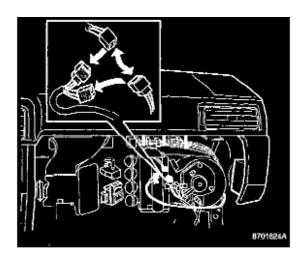
Locations

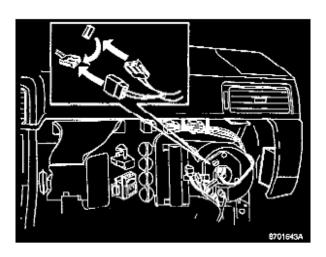
Seat Heater Control Module: Locations

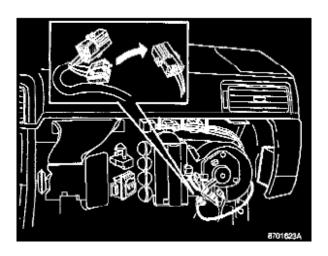
Refer to "Body and Frame : Seats : Locations : Components".

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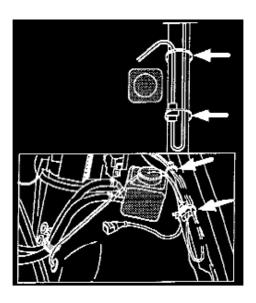


F6 Connect white 6-pin cable harness connectors The new cable harness should be connected between the existing connectors on the climate unit - passenger compartment cable harnesses, (All

in wiring diagram).

F7 Connect 2-pin cable harness connectors The new 2-pin cable harness connectors should be connected between the blower motor and the existing cable harness, (6128 in wiring diagram).

F8 Connect 4-pin cable harness connectors The new 4-pin cable harness connectors should be connected to the accessory connectors (D10 in wiring diagram).



Oper. No.	Labor Description	Time Allowance
593113	Control module, replace	0.1 hr
593213	Sensor lead, re-routing	0.1

944 - 125305 945 - 075946

With the introduction of control module, p/n 9128853 in April '93, the risk of interference was eliminated. The sensor lead is now routed (in production) to the left front wheel as before, see illustration.

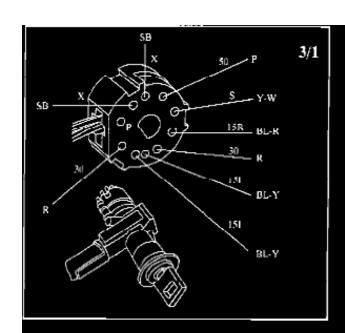
If fault symptoms occur:

Check that the sensor lead is routed in accordance with figure below.

New position of sensor lead

When re-routing the lead, ensure that the sensor lead is pulled towards the wheel housing plate. Secure the lead with wiring ties (p/n 945611-2) and flange screws M8x12 (p/n 947107-9) in the holes that already exist in the wheel housing. Put the rear cable grip over the connector.

WARRANTY STATEMENT: Claims may be submitted under the New Car Limited Warranty when a manufacturing defect is present using claim type: 01.



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

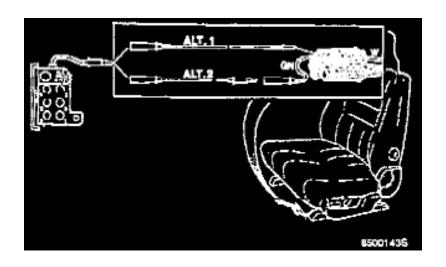
2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

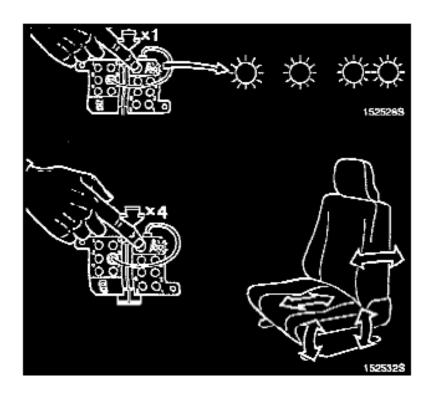
17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Fuse no. Function	Fus	se no. Functions
1 Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel
Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Solenoid, pulsed secondary air injection (PAIR) (B230FD) Power door mirrors Cigar lighter Radio Tailgate washer
3 Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor
4 Brake lights Solenoid P-shift lock 5 Clock	15	Relays, power seats Horn Windshield wash/wipe
Vanity mirror Glove compartment lighting	16	Headlight wash/wipe Cabin fan, standard heater
Trunk light Interior lighting Radio	17	Cabin fan, Manual Climate Control (MCC) Electronic Climate Control (ECC) Left high beam
Power antenna Door-open warning lights	18	Indicator light, high beam Right high beam
CD-changer Anti-theft alarm Electronic Climate Control (ECC)	19	Relay, front foglights (not USA, Canada) Left low beam Beam width control
Cabin fan, Electronic Climate Control (ECC) Front foglights Rear foglights (not USA, Canada)	20	Relay, front foglights Right low beam Beam width control
Power windows Turn signals	21	Left parking lights, front and rear Number plate lights
Warning lights for seat belts Seat belt reminder Ignition key warning	22	Instrument and control panel lights Ambient temperature sensor Relay, front foglights
Bypass relay 151 (power windows/seat heating) Solenoid P-shift lock (Towing book)		Right parking lights, front and rear Ashtray light, rear Automatic transmission selector illumination
0 Heated rear window Power sunroof	23	Lighting, switches and storage compartment in centre console Heated front seats
Heated door mirrors 1 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI)	24 25	Spare Rear foglights (not USA, Canada) Disconnectable low beam (Nordic market, Netherlands, Belgiun
Oxygen sensor (HO2S) heating 2 Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan)	26	Amplifier, radio
Cruise control Anti-theft alarm		

Fuse Functions

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		





Power seats in the above models can be operated only with the ignition on.

- Switch off ignition.

A2

- Manual fault tracing/calibration: Connect auxiliary lead between green lead (alternative 2, later version) in connector at front of driver's seat and test lead on DLC (diagnostic unit) A.

On 940 without a green lead (alternative 1, earlier version), connect auxiliary lead to connector terminal 4.

- Fault tracing/calibration using Volvo Scan Tool (VST) with On-Board Diagnostic (OBD) System Memory Cassette: Connect auxiliary lead to terminal 6 on the VST adapter cable.

А3

Ignition must be off for at least 5 seconds before performing this step.

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

Α4

Diagnostic system must now be activated within 1 minute, i.e., test button must be pressed once to select diagnostic test mode (DTM) 1 (self-diagnostics) or four times to select test mode 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of service manual (SM) TP 32015/1; use of DTM 4 (calibration) is described on SM page 7.

Method For Version 2 (B)

Seat Heater Control Module: Electrical Diagrams

Refer to "Body and Frame: Seats: Diagrams: Electrical".

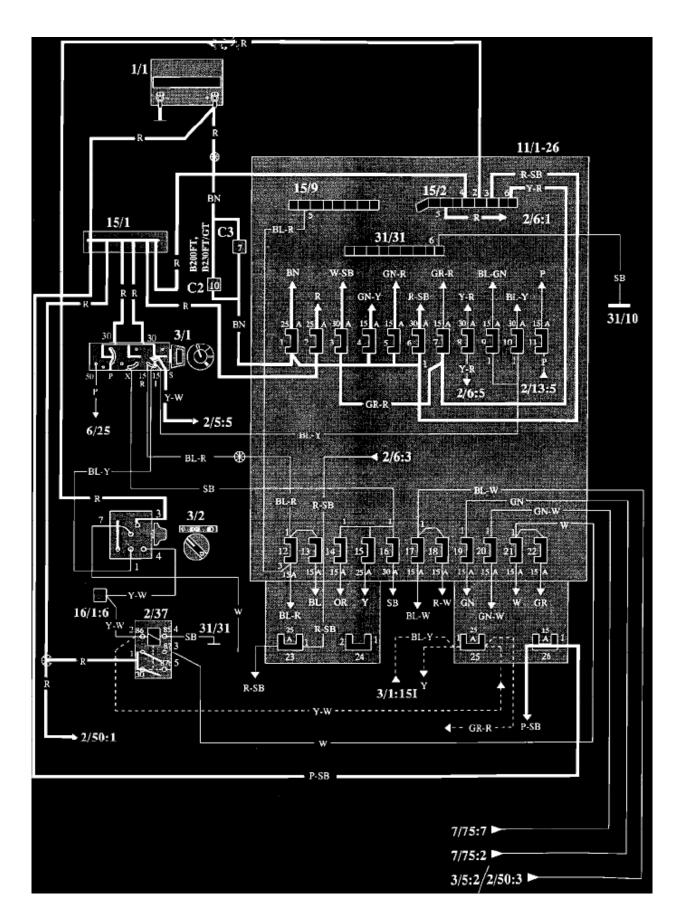
Locations

Refer to "Lighting and Horns: Turn Signals: Locations: Components".

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A distribution	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left from toging hight	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Locations

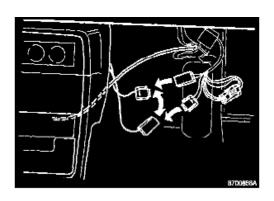


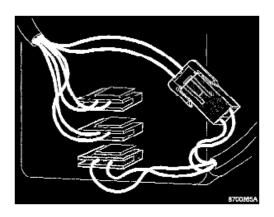
Lamp Out Relay: Locations

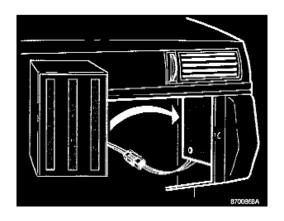
Fuse/Relay Identification and Location

Electrical Distribution Unit

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		







Locate connector on cable between heater and dashboard (on side of centre console).

- Separate connector and connect connector halves, from the new cable harness to the existing for each model year:

1991 model year: -

Connect 4-pin connectors with 3 cables included in the kit cable harness, to existing connectors.

1992-94 model year (shown here): -

Connect 2-pin connectors, included in the cable harness kit to existing connectors.

- Connect the two open connectors to each other.

B5 Removal of connectors from blower motor resistor -

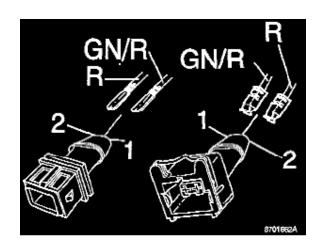
Remove the bottom connector from the blower resistor.

B6 Connection of new connector in blower motor resistor and cable harness -

Connect 2-pin cable harness connectors between the detached connector and the bottom terminal on the blower resistor.

Installing control module from kit

B7







Route the cables which do not have connectors to the engine compartment through an unused hole in the grommet under the brace to the suspension strut.

- Connect green-red cable to connector terminal 1.
- Connect green cable to connector terminal 2.

F4

- Separate existing connectors at the boost pressure switch and connect connector from the new cable harness.

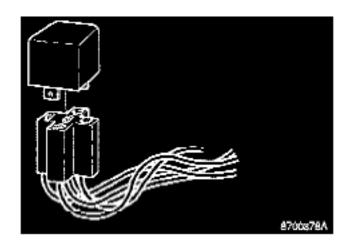
F5 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

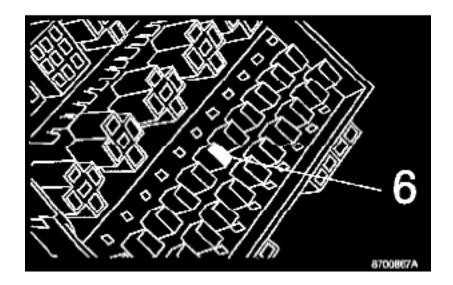
The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

Connecting cable harness in passenger compartment

Page 244





Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.
- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach and pull out central electronics module.

Refer to Service Manual: Section 3(35-39) Lighting, instrumentation (see group 37) and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

B2 Cable connections Installing new relay on cable harness -

Take out cable harness (P/N 9148756) supplied with kit.

- Connect the relay in the kit to the 5-pin connector which is attached to the same end of the cable harness as the black-red cable.

B3 Attaching cable harness with relay -

Attach relay and cable harness above the heater vacuum reservoir, using a cable tie.

- Route the red-black cable inside the centre console side panel to the central electronics module.
- Connect cable to fuse 6 in terminal 4.
- Use cable tie to attach to existing cable harness.



GROUNDS					
Key	OFF	ON	Volts		
(Pin10 to G1)	√		0.0 - 0.2		
(Pin20 to G1)	√		0.0 - 0.2		
(Pin34 to G1)	√_		0.0 - 0.2		
(Pin10 to G1)			0.0 - 0.2		
(Pin20 to G1)		1	0.0 - 0.2		
(Pin34 to G1)			0.0 - 0.2		

IGNITION SWITCH					
Key		OFF	ON	Volts	
(Pin 10 to	1)*	√		0.0	
(Pin 10 to	1)		\checkmark	11 - 14	

OVER VOLTAGE PROTECTION RELAY						
Key			OFF	ON	Volts	
(Pin 10 to	1)	_ √		0.0	
(Pin 10 to	1)		1	11 - 14	

ALTERNATOR MONITOR INPUT		
Engine Idling	Volts	
(Pin 10 to 15)	13 - 14.5	

PUMP MOTOR RELAY					
Key	OFF	ON	Volts		
(Pin 10 to 28)		1	11 - 14		
Jump (Pin 10to 28)	√			
(Pin 10 to 14) Pun	np ON	V	11 - 13		

Bosch - ABS2

35 Position ECU Plug

For Terminal ID refer to "Brakes and Traction Control: Relays and Modules - Brakes and Traction Control: Electronic Brake Control Module: Diagrams".

Voltage Measurements

Grounds

Ignition Switch

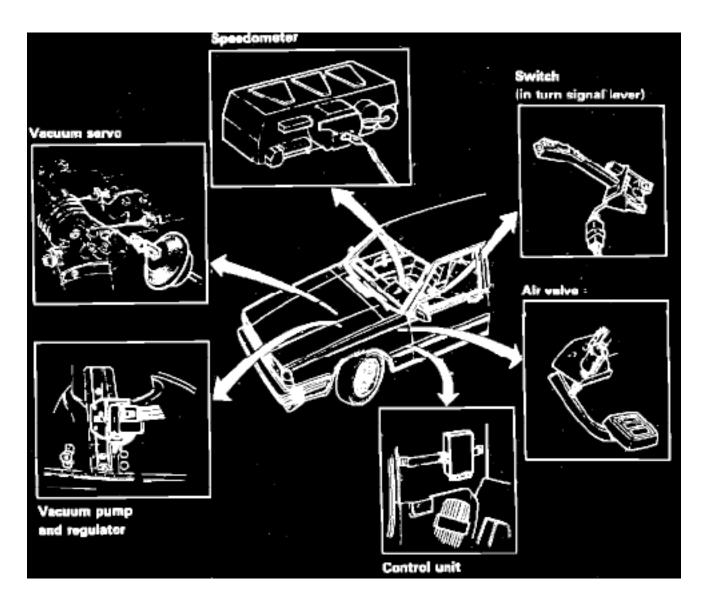
Overvoltage Protection Relay

Alternator Monitor Input

Pump Motor Relay

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
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31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
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C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
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C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
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Locations



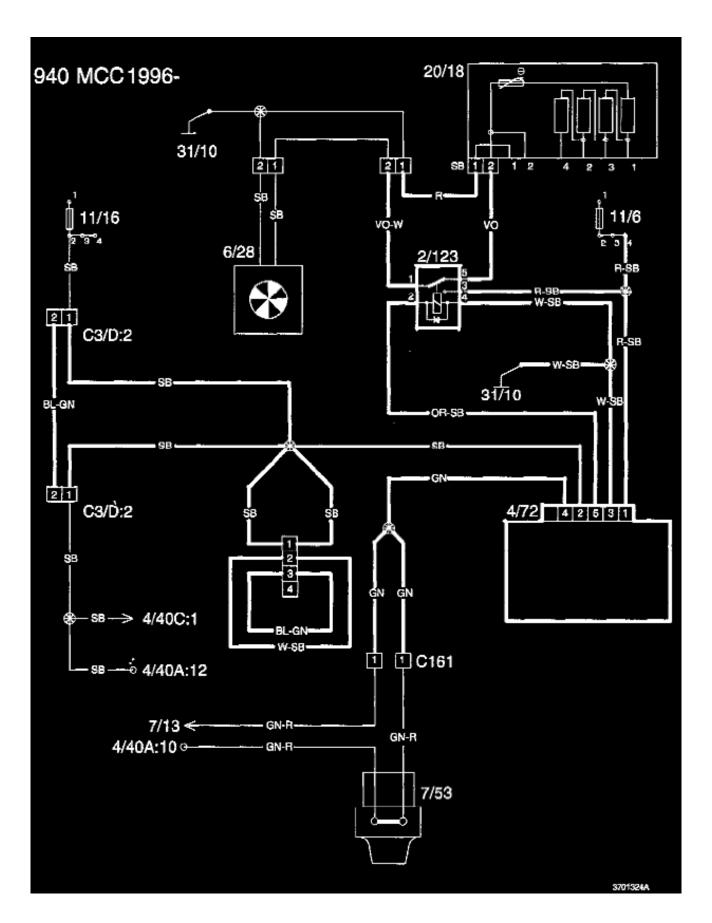
Cruise Control Module: Locations

Cruise Control System Component Locations.

Cruise Control Module

The control module of the cruise control is located behind the panel on the left cowl (A-post).

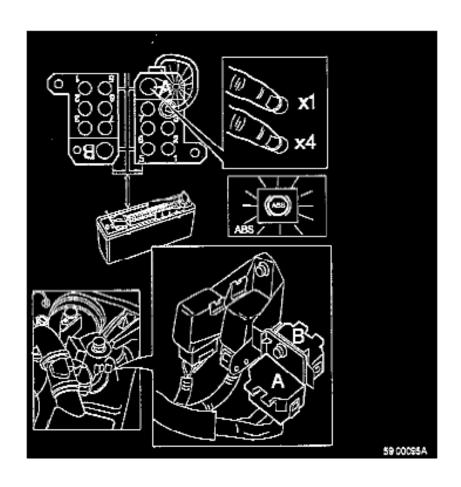
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C34	Connector, under passenger's seat, 2-pin		



7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

Reading and Clearing Diagnostic Trouble Codes

	Plant:					
	Kalmar:0	Torslanda:1	Uddevalla:A	Halifax:3		
944:	124126	124323	122175	123789		
945:	073706	074788	072508	074262		
964:	032219	-	-	-		
965:	012665		-			



Electronic Brake Control Module: Reading and Clearing Diagnostic Trouble Codes

Chassis Number Table

In older models (1992-93), with chassis numbers as shown in the table, a control module with built-in diagnostic function can be used as a 'special tool' for reading off DTCs via the DLC. The control module part numbers are 913 0197-8 or 912 8853-0.

- Replace the existing control module with the unit with the built-in diagnostic function.
- Drive the car at over 4 miles/h (6 km/h). The control module will record any faults and post DTCs. These can then be read out via the DLC in DTM 1.

With pre-92 models (1989-91), the new control module cannot be used for fault-tracing or diagnosis, as the DLC is not wired up.

Diagnostic system

The control module has a self-test function in DTMs 1 and 4. This is connected to DLC A position 3. If the control module detects a fault, it switches the ABS warning light on and posts the DTC. DTCs can be read out via the DLC during fault-tracing. If any fault occurs, apart from a fault with the brake light workings, the control module disables the ABS system completely. To restore the ABS system once a temporary (intermittent) fault is discovered, the ignition must be switched off first. The diagnostic system monitors the wheel sensors, brake light contact, hydraulic valves, valve relay, pump motor and pump motor relay. DTMs In DTM 1, the diagnostic system can identify 14 different types of fault. Faults are displayed as flashing codes. Up to three DTCs can be stored simultaneously. DTM 4 is used to alter the code transmission rate. Once the diagnostic system is activated, the ABS system cuts out and the ABS warning light comes on to indicate that you need to exit from the diagnostic system before driving the car. To exit from a DTM and turn the ABS warning light off once a fault has been erased, you must switch the ignition off first. Diagnosis in older models Older models (1992-1993) with chassis numbers as shown in special notes for reading DTC's, can use a control module and diagnostic system as a 'special tool' to read off DTCs via the DLC. Models before 1992 (1989-1991), cannot use the new control module for fault-tracing and diagnosis, as there is no wire between the control module and the DLC.

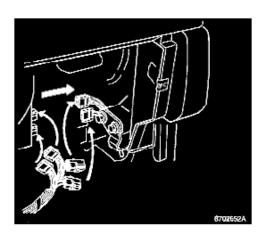
For testing refer to "OBD with control module 913 0197-8 or 912 8853-0 (only)". See: Brakes and Traction Control/Antilock Brakes / Traction Control Systems/Testing and Inspection/Initial Inspection and Diagnostic Overview

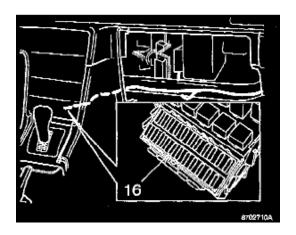
Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Headlight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 6/33-2 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/3 7/6 7/7 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid level sensor Switch, brake pedal Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification







Connect cables from the new cable harness to the separated connectors.

G4 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

G5 Connecting cable harness to heater -

Disconnect the yellow and black connector from the power unit and attach the connectors from the cable harness.

- Install the detached connectors in the other cable harness connectors.
- Connect control module and cable harness connectors.

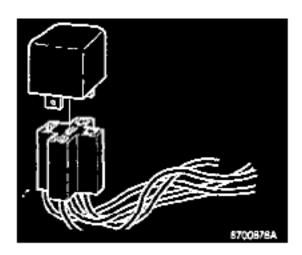
Connecting and installing the control module

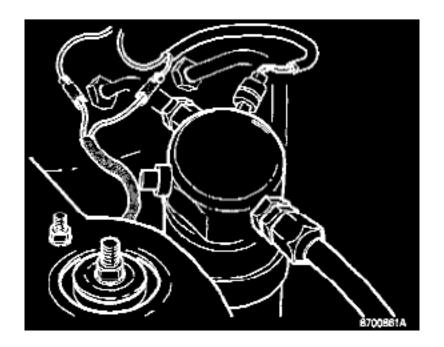
G6 Connect to central electronics module -

Route the black cable inside the centre console side panel to the central electrical unit.

- Connect cable to central electronics module fuse 16 and terminal 3.

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G1 Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- Section V

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment
- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach, pull out and turn central electronics module.

Refer to Service Manual:

Section 3(35-39) (see group 37) Lighting, instrumentation and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections

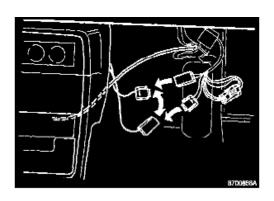
G2 Installing new relay on cable harness

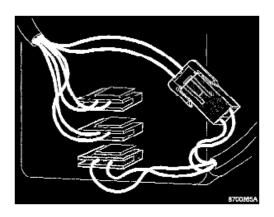
- Take out cable harness (P/N 9447729) supplied with kit.
- Install relay supplied in the 5-pin connector.

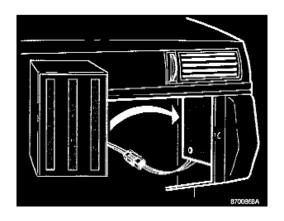
G3 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet below suspension strut brace.

- Install round housing receptacles supplied with cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.







Locate connector on cable between heater and dashboard (on side of centre console).

- Separate connector and connect connector halves, from the new cable harness to the existing for each model year:

1991 model year: -

Connect 4-pin connectors with 3 cables included in the kit cable harness, to existing connectors.

1992-94 model year (shown here): -

Connect 2-pin connectors, included in the cable harness kit to existing connectors.

- Connect the two open connectors to each other.

B5 Removal of connectors from blower motor resistor -

Remove the bottom connector from the blower resistor.

B6 Connection of new connector in blower motor resistor and cable harness -

Connect 2-pin cable harness connectors between the detached connector and the bottom terminal on the blower resistor.

Installing control module from kit

B7

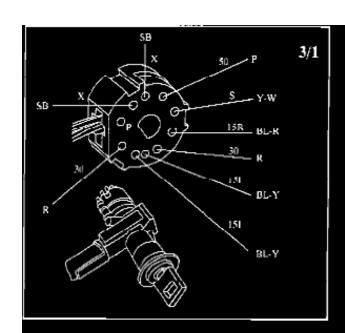
17/1	Supplies and the first state of the state of	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
10/1	Province and the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, at right fleadingsh, 5-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
31/3	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, fight A-post, 2-pin Connector, driver's door, 4-pin
,	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector right A-post Ground connector left tail light	C88 C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power amenna, 4-pin
31/26 31/28	Ground connector, generator	C100	
31/31	Ground connector at overdrive solenoid Ground connection raif in el. distribution unit	C101	Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	Connector on bridge connector 1, 2-pin
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	C117	Connector, 2-pin
C1	Connector, 53-pin	Č121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
-	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C	housing harness	C137	Connector, 4-pin
C3	Connector, 53-pin Instrument panel harness - Right wheel	C130	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	474 44	Connector, at A-post passenger's side, 24-pin
C5	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
C12	Connector, at el. dist. unit, 4-pin Connector, at el. dist. unit, 2-pin		Right wheel housing harness - engine cooling fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	Connector, at cl. dist. unit, 4-pin
C19	Connector, at instrument panel, 2-pin		Connector, at instrument panel, 6-pin
C20 C21	Connector, under gear lever carrier, 1-pin or 2-pin	C161	
C21	Connector, left B-post, 4-pin Connector, at tailgate, 6-pin (5-door)	C162 C163	
C23	Connector, at tailgate, 2-pin (5-door)	C103	Connector, at Intowan, 2 pin (dieser)
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tailgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C27	Connector, tailgate, 1-pin, (5-door)	D3	Connector, alarm, 4-pin at steering column
C29 C31	Connector, at driver's seat, 4-pin	D4	Connector, alarm, 2-pin in engine compartment,
C32	Connector, at passenger's seat, 2-pin Connector, at driver's seat, 2-pin	D5	left front Connector, towing hook, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Diagram Information and Instructions

List of components

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2/2 Regulator DIM-OIP 3/70 Thermostat settis 2/4 Intermittent relay, windshield wipers 3/78 Lock unit, tailgal 2/5 Relay, seat bolt reminder/ignition key warning 4/1 Overheating prot 2/6 Bypass relay 151 4/1 Overheating prot 2/7 Central locking relay 4/2 Overheating prot 2/8 Overdrive relny 4/3 Control module, 2/10 Power unit ECC 4/4 Rheostat 2/11 Relay, endin interference suppression 4/5 Safety circuit, SF 2/12 Relay, endin interference suppression 4/6 Control module, Sensor module, Senso	ng tector, driver's sent tector, passenger's sent tector, passenger's sent cruise control RS (airbag) FCC SRS (airbag) ECK (DI) system EZ-K (DI) system ARS
2/4 Intermittent relay, windshield wipers 3/78 Lock unit, tailgal 2/5 Relay, seat bolt reminder/ignition key warning 4/1 Overheating prot 2/6 Bypass relay 151 4/2 Overheating prot 2/7 Central locking relay 4/2 Overheating prot 2/8 Overdrive relay 4/3 Control module, 2/10 Power unit ECC 4/4 Rheostat 2/11 Relay, engine cooling fan 4/5 Safety circuit, SF 2/12 Relay, fuch interference suppression 4/6 Control module, 2/13 Relay, fuel injection (MFI) 4/9 Sensor module, 2/14 Relay, fuel injection (MFI) 4/9 Sensor module, 2/15 Relay, exhaust gas temperature sensor 4/15 Power amplifier, 2/15 Relay, exhaust gas temperature sensor 4/15 Power amplifier, 2/18 Transient protector, ABS 4/25 Control module, 2/34 Relay, front foglights 4/25 Control module, 2/36 Headlight flasher 4/26 Power amplifier, 2/37 Headlight relay 4/29 Control module,	tector, driver's sent tector, passenger's sent cruise control RS (airbag) FCC SEZ-K (DI) system FZ-K (DI) system ARS
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2/10 Power unit ECC 4/4 Rheostat 2/11 Relay, engine cooling fan 4/5 Safety circuit, SE 2/12 Relay, radio interference suppression 4/6 Control module, Sensor module	RS (airbug) BCC: SRS (airbag) EZ-K (DI) system EZ-K (DI) system ARS
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	or driver's side rear
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3/21 Power window switch, passenger's side rear 6/27 Servo motor, three	
3/22 Switch for rear power window lifts 6/28 Cabin fan motor 3/23 Switch for power door mirror, driver's side 6/29 Engine cooling f	
3/23 Switch for power door mirror, driver's side 6/29 Engine cooling ft 3/24 Switch for power door mirror, passenger's side 6/30 Washer motor, ta	
3/25 Switch for power sunroaf 6/31 Fuel pump	
3/26 Operating module, driver's seat 6/32 Tailgate wiper m	
3/27 Operating module, passenger's seat 6/33-1 Fuel level season 5/28 Switch for heated driver's seat 0/33-2 Fuel level season 0/33-2 Fuel level season	
3/29 Switch for heated passenger's seat 6/34 Power anienna	opump
3/31 Door switch, driver's door 6/35 Parking heater	
3/32 Door switch, passenger's side front 6/36 Central locking t	motor, driver's side front
3/33 Door switch, driver's side rear 6/38 Actuator, lett	
3/34 Door switch, passenger's side rear 6/39 Actuator, right 3/35 Door switch, tailgate (5-door estate)	
3/36 Switch, glove compartment 7/4 Brake fluid level	sensor
3/37 Horn contacts //5 Washer fluid iev	el sensor
3/38 Switch, brake pedal 7/6 Oil pressure sens	
	emperature (ECT) sensor emperature (ECT) sensor, ECC
3/40 Start inhibit switch, sutomatic transmission 7/9 Engine coolant to 3/42-1 Switch on transmission 7/10 Cubin temperature	
3/42-2 Oil pressure sensor, kick-down valve 7/11 Ambient tempera	ature sensor
3/43 Switch in gear lever 7/12 Solar sensor	
3/44 Seat belt lock, driver's seat 7/14 Thermostat. engi	
3/47 Farking brake switch 7/15 Heated oxygen s 3/50 Throttle position (TP) switch 7/16 Engine coolant to	sensur (HO2S) emperature (ECT) sensor.
5/50 Photoe position (17) switch //10 Engine coolant if fuel/ignition (MI	
	,,,

Component Index And Identification



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

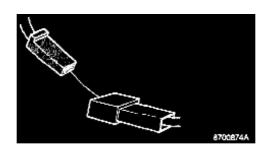
2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

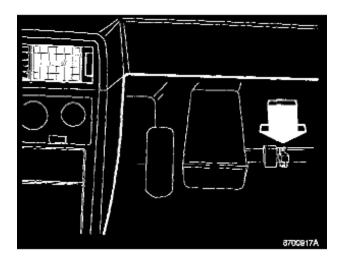
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

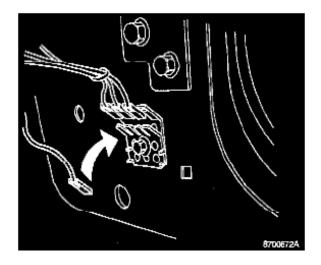
2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)







A7 Connecting the new cable harness to the 5 housing receptacles -

Attach housing receptacles to the cable harness tab terminals according to cable colour coding (colour-to-colour match)

A8 Connecting new cable harness to blower relay -

Connect the 5-pin cable harness connector to the blower relay.

See Service Manual: Section 3 (39) Wiring diagrams 740 1990

A9 Connection of cable to ground plate -

Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.

WHEEL SPEED SENSORS			
Key On (Rotate Wheel 1 rev/sec)	AC Volts		
Left Front (Pin 5 to 23)	V >.075		
Right Front (Pin 7 to 25)	V >.075		
Left Rear (Pin 6 to 24)	V >.075		
Right Rear (Pin 4 to 22)	V> .075		

MAIN HYDRAULIC VAL	VE
Key OFF (ECU Disconnected)	Ohms
(Pin 1 to 18)	2 - 5

INLET SOLENOID VALVES			
Key Off (Disconnect ECU)	Ohms		
Left Front (Pin11 to 35)	5 - 7		
Right Front (Pin 11 to 15)	5 - 7		
Rear (Pin 11 to 17)	5 - 7		

OUTLET SOLENOID V	ALVES
Key Off (Disconnect ECU)	Ohms
Left Front (Pin 11 to 16)	3 - 5
Right Front (Pin 11 to 34)	3 - 5
Rear (Pin 11 to 33)	3 - 5

ABS MAIN RELAY COIL			
Key OFF (ECU Disconnected)	Ohms		
(Pin 1 to 8)	50 - 100		

ABS MAIN RELAY COIL			
Key OFF (ECU Disconnected)	Ohms		
(Pin 2 to 14)	50 -100		

GROUNDS	
Key Off Disconnect ECU)	Ohms
(Pin 1 to G1)	0.0 - 0.1
(Pin 11 toG1)	0.0 - 0.1

WHEEL SPEED SENSORS			
Key Off (Disconnect ECU)	Ohms		
Left Front (Pin 5 to 23)	800 - 1400		
Right Front (Pin 7 to 25)	800 - 1400		
Left Rear (Pin 6 to 24)	800 - 1400		
Right Rear (Pin 4 to 22)	800 - 1400		

Ohms Measurements

Main Hydraulic Valve

Inlet Solenoid Valves

Outlet Solenoid Valves

ABS Main Relay Coil

ABS Main Relay Coil

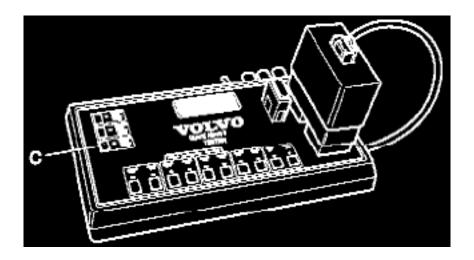
Grounds

17/1	Supplies and the first state of the state of	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
10/1	Province and the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, at right fleadingsh, 5-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
31/3	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, fight A-post, 2-pin Connector, driver's door, 4-pin
,	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector right A-post Ground connector left tail light	C88 C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power amenna, 4-pin
31/26 31/28	Ground connector, generator	C100	
31/31	Ground connector at overdrive solenoid Ground connection raif in el. distribution unit	C101	Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	Connector on bridge connector 1, 2-pin
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	C117	Connector, 2-pin
C1	Connector, 53-pin	Ć121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
-	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C	housing harness	C137	Connector, 4-pin
C3	Connector, 53-pin Instrument panel harness - Right wheel	C130	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	474 44	Connector, at A-post passenger's side, 24-pin
C5	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
C12	Connector, at el. dist. unit, 4-pin Connector, at el. dist. unit, 2-pin		Right wheel housing harness - engine cooling fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	Connector, at cl. dist. unit, 4-pin
C19	Connector, at instrument panel, 2-pin		Connector, at instrument panel, 6-pin
C20 C21	Connector, under gear lever carrier, 1-pin or 2-pin	C161	
C21	Connector, left B-post, 4-pin Connector, at tailgate, 6-pin (5-door)	C162 C163	
C23	Connector, at tailgate, 2-pin (5-door)	C103	Connector, at Intowan, 2 pin (dieser)
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tailgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C27	Connector, tailgate, 1-pin, (5-door)	D3	Connector, alarm, 4-pin at steering column
C29 C31	Connector, at driver's seat, 4-pin	D4	Connector, alarm, 2-pin in engine compartment,
C32	Connector, at passenger's seat, 2-pin Connector, at driver's seat, 2-pin	D5	left front Connector, towing hook, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS Relay, front foglights Headlight flasher Headlight relay 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Headlight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear Vacuum, cruise control Starter motor 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control

Component Index And Identification



Alarm Module: Testing and Inspection

Button "Run self test"

- Press button C Run self test".

The lower row on the display shows the caption "TESTING..."

If the module is OK: If the control module is free of faults, the caption "TEST OK!" appears on the lower row of the display.

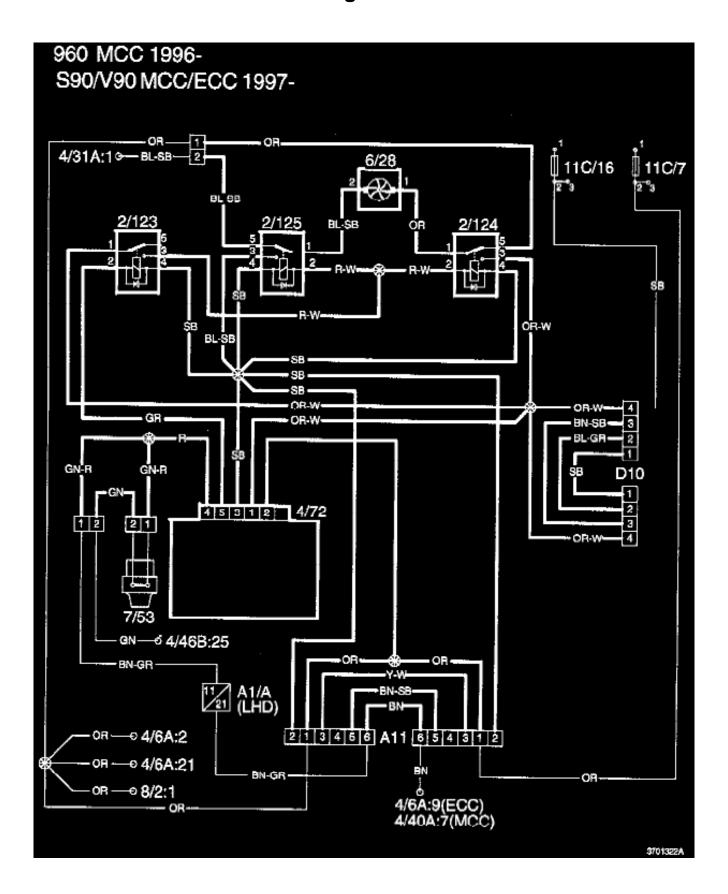
If the control module is faulty:

If the control module is faulty the caption "ERRCODE XXX" is shown ("XXX" is a 3-digit DTC).

The DTC (ERRCODE) should always be quoted when making claims for a faulty module.

17/1	Supplies and the first state of the state of	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
10/1	Province and the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, at right fleadingsh, 5-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
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31/4	Ground connector engine (ground connection,	C79	Connector, fight A-post, 2-pin Connector, driver's door, 4-pin
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31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector right A-post Ground connector left tail light	C88 C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
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31/26 31/28	Ground connector, generator	C100	
31/31	Ground connector at overdrive solenoid Ground connection raif in el. distribution unit	C101	Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	Connector on bridge connector 1, 2-pin
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	C117	Connector, 2-pin
C1	Connector, 53-pin	Ć121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
-	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C	housing harness	C137	Connector, 4-pin
C3	Connector, 53-pin Instrument panel harness - Right wheel	C130	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	474 44	Connector, at A-post passenger's side, 24-pin
C5	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
C12	Connector, at el. dist. unit, 4-pin Connector, at el. dist. unit, 2-pin		Right wheel housing harness - engine cooling fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	Connector, at cl. dist. unit, 4-pin
C19	Connector, at instrument panel, 2-pin		Connector, at instrument panel, 6-pin
C20 C21	Connector, under gear lever carrier, 1-pin or 2-pin	C161	
C21	Connector, left B-post, 4-pin Connector, at tailgate, 6-pin (5-door)	C162 C163	
C23	Connector, at tailgate, 2-pin (5-door)	C103	Connector, at Intowan, 2 pin (dieser)
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tailgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C27	Connector, tailgate, 1-pin, (5-door)	D3	Connector, alarm, 4-pin at steering column
C29 C31	Connector, at driver's seat, 4-pin	D4	Connector, alarm, 2-pin in engine compartment,
C32	Connector, at passenger's seat, 2-pin Connector, at driver's seat, 2-pin	D5	left front Connector, towing hook, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

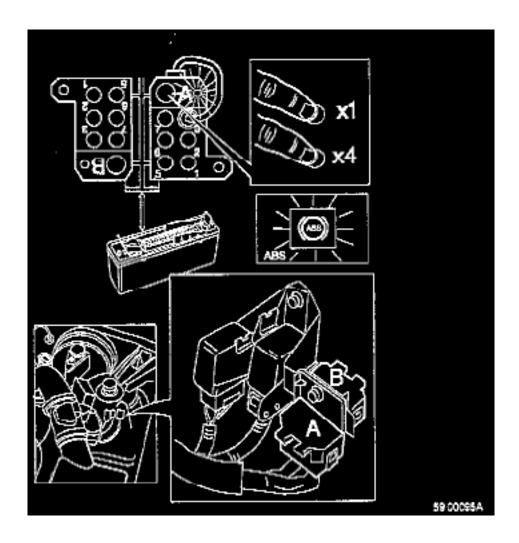
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Fu	se no. Function	Fus	e no. Functions
1	Fuel pump (LH-2.4 MFI)	13	Fuel valve, diesel
	Fuel system		Pre-heating mechanism, diesel
	Direct Ignition (DI) system		EGR diesel
	Oxygen sensor (HO2S) heating (B200/230FT)		Solenoid, pulsed secondary air injection (PAIR) (B230FD)
2	Hazard warning flashers	14	Power door mirrors
	Headlight flasher (via fuse 17 and 18)		Cigar lighter
	Central locking		Radio
	Anti-theft alarm		Tailgate washer
3	Power seats		Tailgate wiper
	(Towing hook)		Ambient temperature sensor
	Brake lights	15	Relays, power seats
	Solenoid P-shift lock		Horn
5	Clock		Windshield wash/wipe
	Vanity mirror		Headlight wash/wipe
	Glove compartment lighting	16	Cabin fan, standard heater
	Trunk light		Cabin fan, Manual Climate Control (MCC)
	Interior lighting		Electronic Climate Control (ECC)
	Radio	17	Left high beam
	Power antenna		Indicator light, high beam
	Door-open warning lights	18	Right high beam
	CD-changer		Relay, front foglights (not USA, Canada)
	Anti-theft alarm	19	Left low beam
6	Electronic Climate Control (ECC)		Beam width control
•	Cabin fan, Electronic Climate Control (ECC)		Relay, front foglights
7	Front foglights	20	Right low beam
	Rear foglights (not USA, Canada)		Beam width control
ĸ	Power windows	21	Left parking lights, front and rear
í	Turn signals		Number plate lights
	Warning lights for seat belts		Instrument and control panel lights
	Seat belt reminder		Ambient temperature sensor
	Ignition key warning	22	Relay, front foglights
	Bypass relay 15I (power windows/seat heating)		Right parking lights, front and rear
	Solenoid P-shift lock		Ashtray light, rear
	(Towing hook)		Automatic transmission selector illumination
10	Heated rear window		Lighting, switches and storage compartment in centre console
1	Power sunroof	23	Heated front seats
	Heated door mirrors	24	Spare
11	Fuel primer pump in fuel tank (LH-2.4 MFI)	25	Rear foglights (not USA, Canada)
	Fuel pump in tank (Regina MFI)		Disconnectable low beam (Nordic market, Netherlands, Belgius
	Oxygen sensor (HO2S) heating	26	Amplifier, radio
12	Backup (reversing) lights		
	Overdrive relay		
	Bulb failure sensor with brake monitor		
	Exhaust temperature sensor (Japan)		
	Cruise control		
	CTUISC COURT OF		

Fuse Functions

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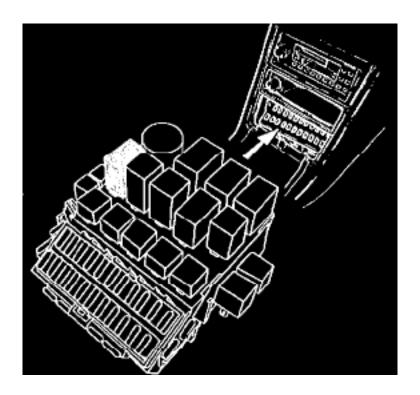


Electronic Brake Control Module: Description and Operation Diagnostic System

Diagnostic system

The control module has a self-test function in DTMs 1 and 4. This is connected to DLC A position 3. If the control module detects a fault, it switches the ABS warning light on and posts the DTC. DTCs can be read out via the DLC during fault-tracing. If any fault occurs, apart from a fault with the brake light workings, the control module disables the ABS system completely. To restore the ABS system once a temporary (intermittent) fault is discovered, the ignition must be switched off first. The diagnostic system monitors the wheel sensors, brake light contact, hydraulic valves, valve relay, pump motor and pump motor relay. DTMs In DTM 1, the diagnostic system can identify 14 different types of fault. Faults are displayed as flashing codes. Up to three DTCs can be stored simultaneously. DTM 4 is used to alter the code transmission rate. Once the diagnostic system is activated, the ABS system cuts out and the ABS warning light comes on to indicate that you need to exit from the diagnostic system before driving the car. To exit from a DTM and turn the ABS warning light off once a fault has been erased, you must switch the ignition off first. Diagnosis in older models Older models (1992-1993) with chassis numbers as shown in special notes for reading DTC's, can use a control module and diagnostic system as a 'special tool' to read off DTCs via the DLC. Models before 1992 (1989-1991), cannot use the new control module for fault-tracing and diagnosis, as there is no wire between the control module and the DLC.

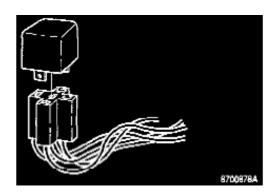
Relay Panel

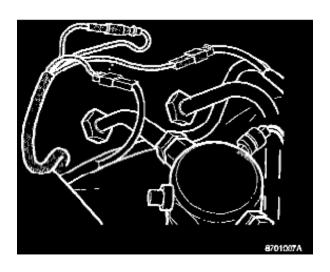


Relay Box: Locations Relay Panel

Fuse And Relay Box

The fuse box is located behind the ash tray in center console.







Installing new relay on cable harness -

Take out cable harness (P/N 9162426) supplied with kit

- Install relay supplied in the 5-pin connector.

E3 Route cables to engine compartment

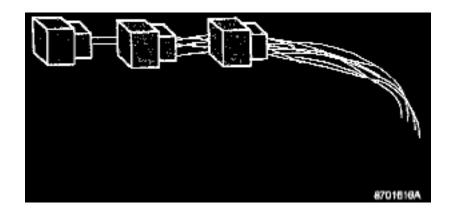
- Route green cables with single round or flat terminals to engine compartment through unused outlet in grommet under brace to suspension strut.
- Connect round or flat connectors to corresponding existing connectors.
- Connect unconnected connectors.

E4 Location of opening in cable sheath The cable sheath is cut to drain off condensation.

- The cut conduit section should be placed at the lowest point along the route of the cable.
- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

Fuse no. Function	Fus	se no. Functions
1 Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system Oxygen sensor (HO2S) heating (B200/230FT)	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel Solenoid, pulsed secondary air injection (PAIR) (B230FD)
Oxygen sensor (HO2S) heating (B200/230F1) Headlight flusher (via fuse 17 and 18) Central locking Anti-theft alarm	14	Solenoid, pulsed secondary air injection (FAIK) (B230FB) Power door mirrors Cigar lighter Radio Tailgate washer
3 Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor
4 Brake lights Solenoid P-shift lock	15	Relays, power seats Horn
5 Clock Vanity mirror		Windshield wash/wipe Headlight wash/wipe
Glove compartment lighting Trunk light Interior lighting	16	Cabin fan, standard heater Cabin fan, Manual Climate Control (MCC) Electronic Climate Control (ECC)
Radio Power antenna	17	Left high beam Indicator light, high beam
Door-open warning lights CD-changer	18	Right high beam Relay, front foglights (not USA, Canada)
Anti-theft alarm Electronic Climate Control (ECC)	19	Left low beam Beam width control
Cabin fan, Electronic Climate Control (ECC) Front foglights	20	Relay, front foglights Right low beam
Rear foglights (not USA, Canada) 8 Power windows	21	Beam width control Left parking lights, front and rear
9 Turn signals Warning lights for seat belts Seat belt reminder		Number plate lights Instrument and control panel lights Ambient temperature sensor
Ignition key warning Bypass relay 15I (power windows/seat heating) Solenoid P-shift lock	22	Relay, front foglights Right parking lights, front and rear Ashtray light, rear Automatic transmission selector illumination
(Towing hook) 10 Heated rear window Power suproof	23	Lighting, switches and storage compartment in centre console Heated front seats
Heated door mirrors 11 Fuel primer pump in fuel tank (LH-2.4 MFI)	24 25	Spare Rear foglights (not USA, Canada)
Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating	26	Disconnectable low beam (Nordic market, Netherlands, Belgiun Amplifier, radio
12 Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan) Cruise control		
Anti-theft alarm		

Fuse Functions



Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

E11 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

E12 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Install. Control Module/Cable 960-S90-V90 MCC/ECC 95-97

Installing control module and cables 960 MCC/ECC model year 1995- S90/V90 MCC/ECC model year 1997-

F1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.

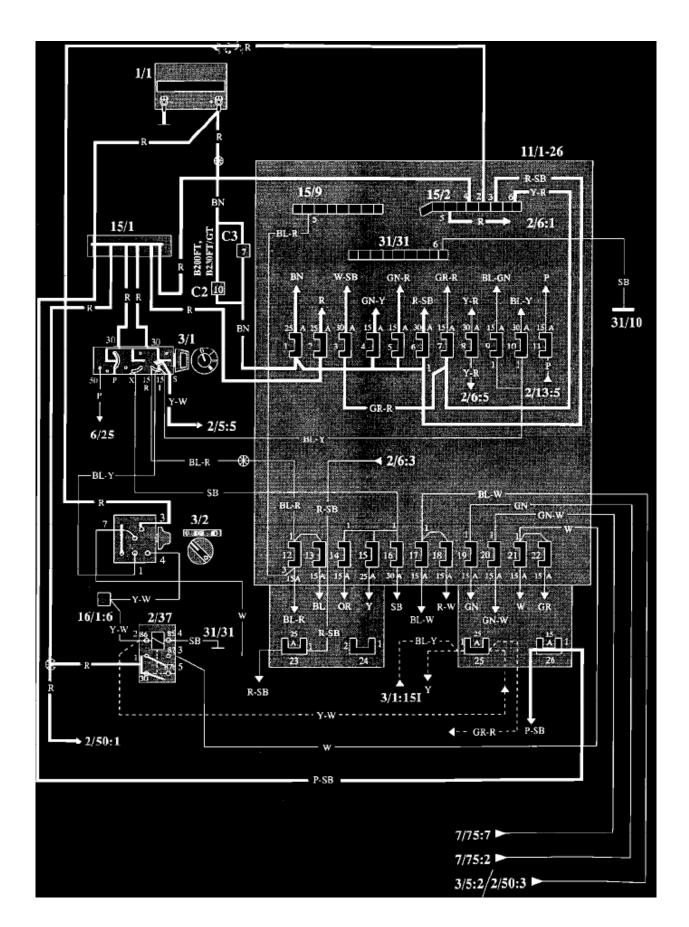
Refer to Service Manual:

Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections

F2 Installing new relay on cable harness Take out cable harness, P/N 9171004-6, included in kit. - Install 3 relays included in the 5-pin connector.

Locations

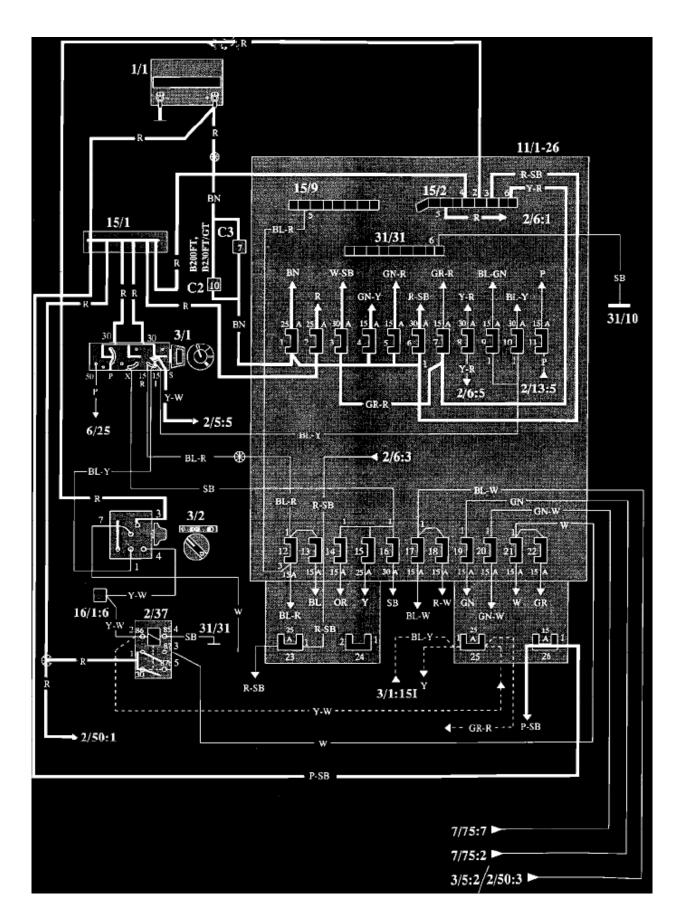


Radiator Cooling Fan Motor Relay: Locations

Fuse/Relay Identification and Location

Electrical Distribution Unit

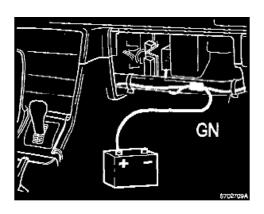
Locations

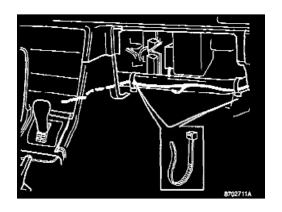


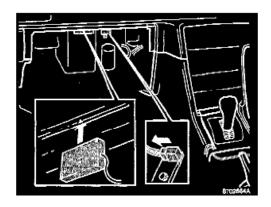
Lamp Out Relay: Locations

Fuse/Relay Identification and Location

Electrical Distribution Unit







Connect battery lead and start car.

- Turn on A/C system to start compressor.

The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters in length) to connect battery positive terminal to control module connector.

Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating. -

Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

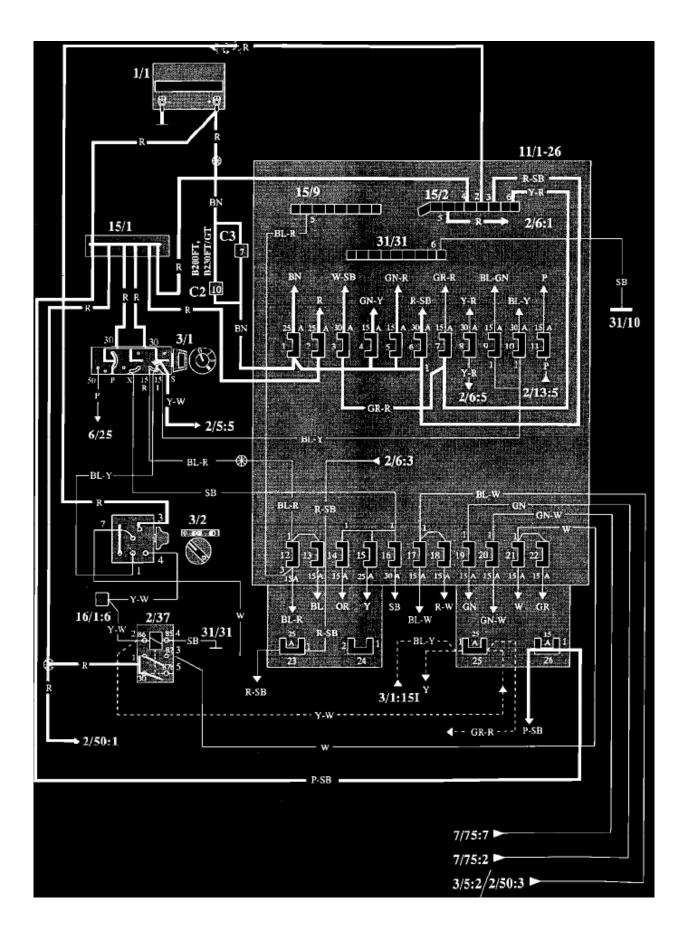
Remove cable between connector and battery.

G8 Fastening cables -

Clamp cable harness in position using tie straps on the front of the air duct below glove compartment.

- Use the eyelet on the connector to fasten the tie straps.
- Clamp cable harness in position using the straps on the front of the air duct above glove compartment (not shown in illustration).
- Use the eyelet on the connector to fasten the tie straps.

Locations



Fog/Driving Lamp Relay: Locations

Fuse/Relay Identification and Location

Electrical Distribution Unit

В	Connector right A-post (780)
C3/D	Multi-connector under dashboard right-hand side
C8	4-pin accessories connector
C19	2-pin connector at dashboard
C160	6-pin connector at dashboard
C161	1-pin connector at firewall
D10	 4-pin passenger compartment cable harness accessories connector
E	2-pin connector at dashboard
ĸ	1-pin connector at firewall
P	Connector at dashboard
J	Connector at dashboard

Wiring diagrams comments:

Bold lines indicate that the cable is included in the service kit cable harness.

Thin lines indicate that the cable belongs to the car's existing cable harness.

For further descriptions and positions in the carriage, see the car's ordinary wiring diagram.

Warranty Statement

WARRANTY STATEMENT: Claims may be submitted under the New Car Limited Warranty when a manufacturing defect is present using claim type: 01

Operation No. Labor Description Time Allowance

87942-2 Odor from evaporator, installation of blower fan control module

740/940 MCC 88- 1.8 hr

740/940 ECC 91-95 1.7 hr

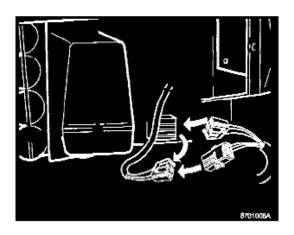
9401995-ECC 96- 1.8 hr

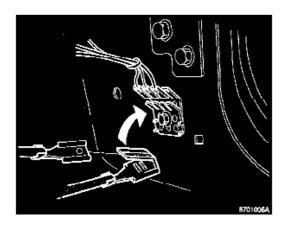
760/960 88-94 1.8 hr

780 88-91 1.7 hr

960 95-97 1.6 hr







- Disconnect the yellow connector from the heater and connect the yellow connector from the new cable harness.
- Connect the detached yellow connector to the yellow connector on the cable harness.

Installing control module from kit

E6 Connection and mounting of control module

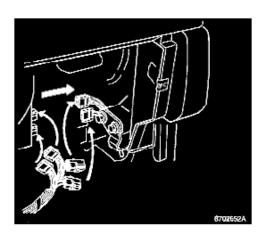
- Connect control module and cable harness connectors together.
- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

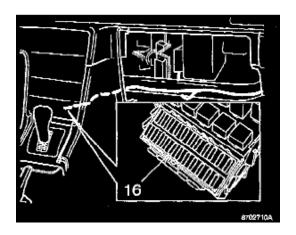
E7 Connection to ground plate -

Connect the black-white cable included in the cable harness to the ground plate on the right side of the cowl

The ground plate is located behind the fuel control module. The ground lead has a twin tab terminal for when there are no vacant spaces on the ground plate.







Connect cables from the new cable harness to the separated connectors.

G4 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

G5 Connecting cable harness to heater -

Disconnect the yellow and black connector from the power unit and attach the connectors from the cable harness.

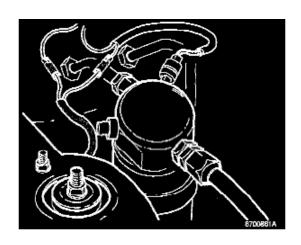
- Install the detached connectors in the other cable harness connectors.
- Connect control module and cable harness connectors.

Connecting and installing the control module

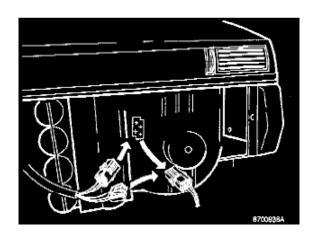
G6 Connect to central electronics module -

Route the black cable inside the centre console side panel to the central electrical unit.

- Connect cable to central electronics module fuse 16 and terminal 3.







C3 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet below suspension strut brace.

- Install round housing receptacles supplied with cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.
- Connect cables from the new cable harness to the separated connectors.

C4 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

C5 Connecting cable harness to heater -

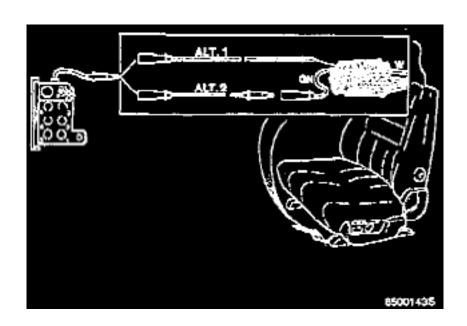
Disconnect the yellow connector from the heater and attach the yellow connector from the cable harness.

- Install the detached connector in the other cable harness yellow connector.

Installing control module from kit

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

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C34	Connector, under passenger's seat, 2-pin		



Method For Version 3 (C)

Applies to: 940, 1993 4-door models as from chassis No. 114465 5-door models as from chassis No. 066167

Note:

Unlike earlier models, the power seats in the above models can be operated with the ignition off.

Procedures in Part I are valid for cars built up to chassis numbers listed below. Procedures for Part II are valid for cars after these chassis numbers:

4 door models:

124126 Factory Code 0 123549 Factory Code 1 123609 Factory Code 3 122175 Factory Code A 5 door models:

073706 Factory Code 0 074106 Factory Code 1 074202 Factory Code 3 072508 Factory Code A C1 -

Switch off ignition.

C2

- I. Manual fault tracing/calibration: Connect auxiliary lead (alternative 1 or 2 as illustrated) between connector at front of seat to be tested and test lead on DLC A.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect auxiliary lead to terminal 6 on the VST adapter cable.
- II. Manual fault tracing/calibration: Connect test lead from DLC A to socket 6 on DLC B.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.

СЗ

- Remove fuse No. 3

Fusebox is located behind ashtray in center console, in front of gear lever.

C4

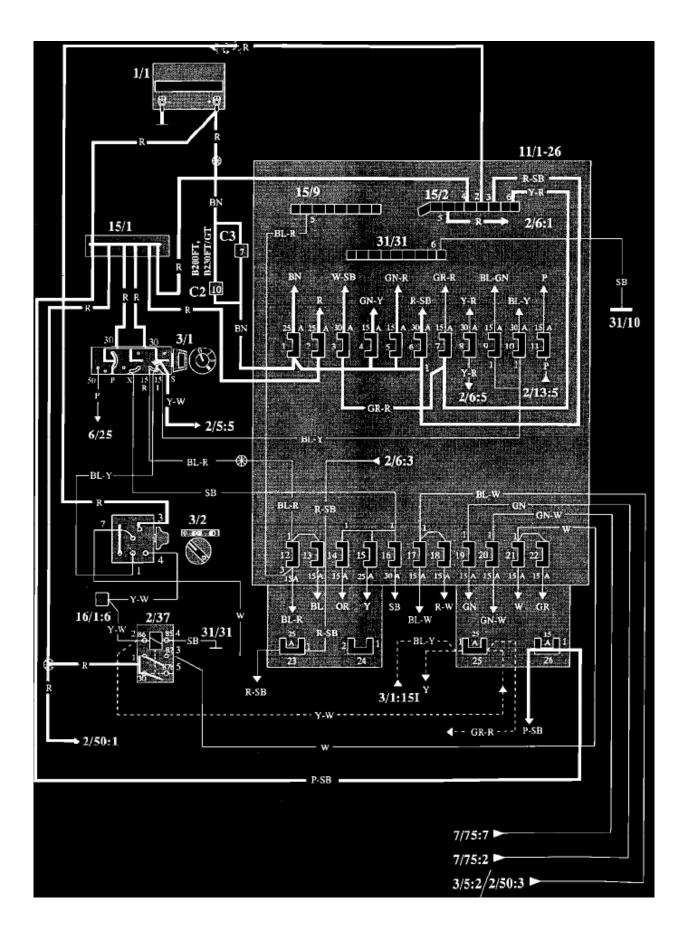
Ignition must be off for at least 5 seconds before performing this step.

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, driver's seat Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front Window lift motor passenger's side rear Power door mirror, driver's side 3/13 6/11 6/12 6/13 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control Starter motor 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door 6/31 6/32 6/33-1 6/33-2 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/5 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid level sensor Switch, brake pedal 7/6 7/7 Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification

Locations

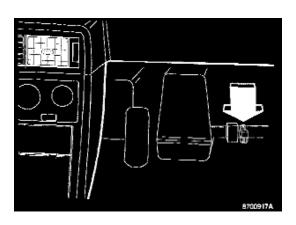


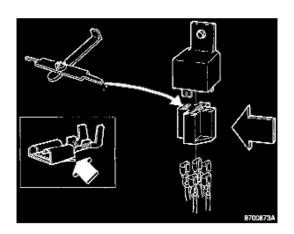
Audible Warning Device Control Module: Locations

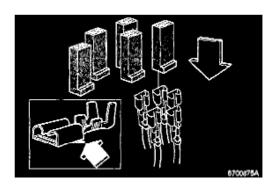
Fuse/Relay Identification and Location

Electrical Distribution Unit

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		







A4 Removing existing connector from existing cable harness -

Disconnect 5-pin connector from blower relay (relay 131 in the Service Manual).

See Service Manual: Section 3 (39) Wiring diagrams 740 1990

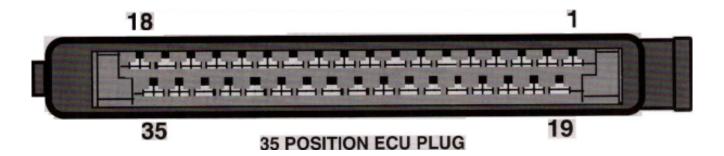
A5 Cable terminal, opening -

Detach the cables carefully from the connector's receptacle housing using tool 9814229-2, from repair kit 9814235.

See Service Manual: Section 3(37), Wiring repairs and replacing cable terminals 850, 900

A6 Installation of 5 housing receptacles -

Straighten the locking tongues carefully and attach the 5 white housing receptacles from the kit.



Electronic Brake Control Module: Connector Views

Bosch - ABS2

35 Position ECU Plug

Connector View

System

Bosch ABS 2

Location

Terminal ID

- 1 Power Ignition SW. or over voltage relay* 2 Solenoid valve (left front) 3 N/C 4 Wheel speed sensor (left front) (-) 5 Wheel speed sensor (left front) (-)** 6 Wheel speed sensor (left front) (+)** 7 Wheel speed sensor (left rear) (+)** 8 Wheel speed sensor (left front) (+)** 9 Wheel speed sensor (left front) (-)
- 10 Ground 11 Wheel speed sensor (Right front) (+)** 12 N/C 13 Lateral accel. switch or sensor (GM) 14 Pump motor monitor voltage 15 Alternator monitor 16 N/C 17 Pump & Solenoid rel. coil feed (GM, Nissan) 18 Solenoid valve (left rear or rear) 19 Solenoid valve (right rear)*** 20 Solenoid valve ground 21 Wheel speed sensor (Right front) (-) 22 Wheel speed sensor (left front) (+)** 23 Wheel speed sensor (Right front) (+) 24 Wheel speed sensor (Right rear) (+)**** 25 Brake light switch 26 Wheel speed sensor (Right rear) (-)**** 27 Solenoid valve relay control 28 Pump motor relay control 29 ABS Indicator lamp 30 N/C 31 N/C 32 Solenoid power monitor input 33 N/C 34 Solenoid valve ground 35 Solenoid valve (Right front)

NC = No connection

* Power is furnished either through the ignition switch Pin 15 directly or through an over voltage protection relay. If a relay is used in the system then Pin 15 will supply the energizing signal to the relay and the relay contacts closing provides the supply voltage to Pin 1 of the ECU. Usually the over voltage protection relay is mounted close to the ECU.

Power Seat - Fault Tracing/Calibration

Contents		Procedure
Method for:	940, 1992-1993, Version 1 4-door models to chassis No. 114464 incl. 5-door models to chassis No. 066166 incl.	Λ1 - Λ4
	960, 1992-1993, Version 2 4-door models to chassis No. 018366 incl. 5-door models to chassis No. 012112 incl.	B1 - B4
Method for:	940, 1993, Version 3 4-door models from chassis No. 114465 5-door models from chassis No. 066167	C1 - C5
	960, 1993, Version 4 4-door models from chassis No. 018367 5-door models from chassis No. 012113	D1 - D5
Method for:	940/960 from 1994 on, Version 5	E1 - E4

Technical Service Bulletin #85916 Date: 931001

Power Seat - Fault Tracing/Calibration

Model 900

Group 85

Number 916

Title: Modified Method for Fault tracing/calibrating power seats with memory function.

940/960 1992 -->

Market US and Canada

Date October 1993

THIS BULLETIN SUPERSEDES SB 85-912; DATED FEBRUARY, 1993

REFERENCE: TP 32015/1 (ENGLISH); 11/91; POWER SEAT WITH MEMORY FUNCTION

Modified method for fault tracing/calibrating power seats with memory function

The method for fault tracing/calibrating power seats in different series has been modified since power seats with memory were introduced. This bulletin provides a summary of the methods which should be used on various models.

Method for fault tracing/calibrating power seats with memory function

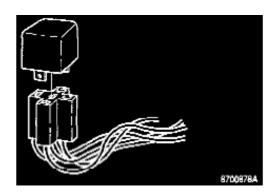
Method For Version 1 (A)

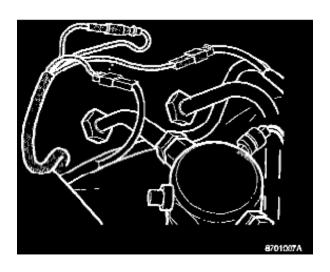
Applies to: 940, 1992-1993 4-door models to chassis No. 114464 incl. 5-door models to chassis No. 066166 incl.

Note:

Power Seat Control Module: Locations

Refer to "Body and Frame : Seats : Locations : Components".







Installing new relay on cable harness -

Take out cable harness (P/N 9162426) supplied with kit

- Install relay supplied in the 5-pin connector.

E3 Route cables to engine compartment

- Route green cables with single round or flat terminals to engine compartment through unused outlet in grommet under brace to suspension strut.
- Connect round or flat connectors to corresponding existing connectors.
- Connect unconnected connectors.

E4 Location of opening in cable sheath The cable sheath is cut to drain off condensation.

- The cut conduit section should be placed at the lowest point along the route of the cable.
- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

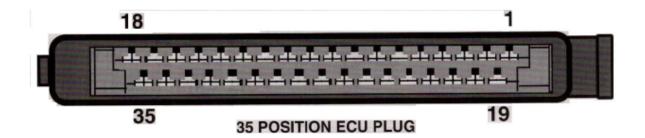
Diagram Information and Instructions

List of components

	•		
1/1	Battery	3/52	Switch for power antenna
20	Balay from facilishts HEA/CDM	3/59	Beam width control
2/2	Relay, front foglights USA/CDN Regulator DIM-DIP	3/66 3/70	Idle air control (IAC) control, EGR Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning	****	
2/6	Bypass relay 15I	4/1	Overheating protector, driver's seat
2/7	Central locking relay	4/2	Overheating protector, passenger's seat
2/8 2/10	Overdrive relay Power unit ECC	4/3 4/4	Control module, cruise control Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, BCC
2/13	Relay, fuel injection (MFI)	4/9	Sensor module, SRS (airbag)
2/14	Relay, glowplug mechanism	4/10	Control module EZ-K (DI) system
2/15 2/16	Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay	4/15 4/16	Power amplifier, EZ-K (DI) system Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34	Relay, front foglights	4/25	Control module Regina (MFI) system
2/36	Headlight flasher	4/26	Power amplifier/ignition coil REX-I (DI) system
2/37	Headlight relay	4/29	Control module driver's seat
2/38 2/45	Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock	4/40	A/C controls, MCC
2/49	Relay, rear foglights	4/42 4/43	Control module REX-I (DI) system Heater controls
2/50	Bypass relay, high beam	-1/43	rener controls
		5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch	× 14	38. d. 14.13. d
3/4 3/5	Cruise control operation Switch, turn signal/high-low beam	6/1 6/2	Windshield wiper motor Washer motor, front
3/6	Switch, hazard warning flashers	6/3	Right headlight wiper motor
3/7	Foglight switch	6/4	Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
3/9	rear window/door mirrors Brake light switch	6/7	Central locking motor, driver's side rear Central locking motor, tailgute
3/10	Backup (reversing) light switch	6/8 6/9	Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door for driver's door	6/13 6/14	Power door mittor, driver's side
3/16	Power window switch, driver's door	6/15	Power door mirror, passenger's side Motor power sunroof
2,20	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
7.74	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door for passenger's side rear	6/19 6/24	Motor fore-aft, driver's seat Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Servo motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23 3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28	Switch for heated driver's seat Switch for heated passenger's seat	6/33-2	Fuel level sensor/pump
3/29 3/31	Door switch, driver's door	6/34 6/35	Power antenna Parking heater
3/32	Door switch, passenger's side from	6/36	Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, left
3/34	Door switch, passenger's side rear	6/39	Actuator, right
3/35	Door switch, tailgate (5-door estate)	744	Data California
3/36 3/37	Switch, glove compartment Horn contacts	7/4 7/5	Broke fluid level sensor Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Qil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40	Start inhibit switch, automatic transmission	7/9	Engine coolant temperature (ECT) sensor, ECC
3/42-1	Switch on transmission	7/10	Cubin temperature sensor
3/42-2 3/43	Oil pressure sensor, kick-down valve Switch in gear lever	7/11 7/12	Ambient temperature sensor Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47	Parking brake switch	7/15	Healed oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolant temperature (ECT) sensor,
			fuel/ignition (MFI/DI) system

Component Index And Identification

Volvo	LF	RF	. LR	RR	Rear	Sol. Val.
1987 - 1993 All Models	4(-), 6(+)	21(-), 11(+)	none	none	9(-),7(+)	3



GROUNDS					
Key	OFF	ON	Volts		
(Pin 1 toG1)	7-		0.0 - 0.2		
(Pin 11 to G1)	√		0.0 - 0.2		
(Pin 1 toG1)		V	0.0 - 0.2		
(Pin 11 to G1)		7	0.0 - 0.2		

IGNITION SWITCH						
Key				OFF	ON	Volts
(Pin	1	to	2)	~ ~		00.00
(Pin	ī	to	2)		$\sqrt{}$	11 - 14

STOP LIGHT SWITCH				
Brakes	Volts			
Not Applied (Pin 1 to 12)	00.00			
Applied (Pin 1 to 12)	11 - 14			

ABS INDICATOR LAMP						
Key ON Volts						
(Pin 1 to 27) ABS lamp ON Less than 1						
Engine Idling						
(Pin 1 to 27) ABS lamp OFF 13 - 14.5						

^{*} Only if the system does not use an over voltage protection relay.

** Vehicle specific see chart for details.

Teves - ABS

35 Position ECU Plug

For Terminal ID refer to "Brakes and Traction Control: Relays and Modules - Brakes and Traction Control: Electronic Brake Control Module: Diagrams".

Voltage Measurements

Grounds

Ignition Switch

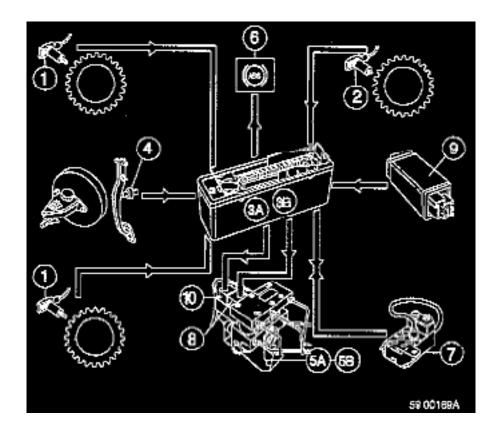
Stop Light Switch

ABS Indicator Lamp

Fuse no. Function	Fus	se no. Functions
1 Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel
Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Solenoid, pulsed secondary air injection (PAIR) (B230FD) Power door mirrors Cigar lighter Radio Tailgate washer
3 Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor
4 Brake lights Solenoid P-shift lock 5 Clock	15	Relays, power seats Horn Windshield wash/wipe
Vanity mirror Glove compartment lighting	16	Headlight wash/wipe Cabin fan, standard heater
Trunk light Interior lighting Radio	17	Cabin fan, Manual Climate Control (MCC) Electronic Climate Control (ECC) Left high beam
Power antenna Door-open warning lights	18	Indicator light, high beam Right high beam
CD-changer Anti-theft alarm Electronic Climate Control (ECC)	19	Relay, front foglights (not USA, Canada) Left low beam Beam width control
Cabin fan, Electronic Climate Control (ECC) Front foglights Rear foglights (not USA, Canada)	20	Relay, front foglights Right low beam Beam width control
Power windows Turn signals	21	Left parking lights, front and rear Number plate lights
Warning lights for seat belts Seat belt reminder Ignition key warning	22	Instrument and control panel lights Ambient temperature sensor Relay, front foglights
Bypass relay 151 (power windows/seat heating) Solenoid P-shift lock (Towing book)		Right parking lights, front and rear Ashtray light, rear Automatic transmission selector illumination
0 Heated rear window Power sunroof	23	Lighting, switches and storage compartment in centre console Heated front seats
Heated door mirrors 1 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI)	24 25	Spare Rear foglights (not USA, Canada) Disconnectable low beam (Nordic market, Netherlands, Belgiun
Oxygen sensor (HO2S) heating 2 Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan)	26	Amplifier, radio
Cruise control Anti-theft alarm		

Fuse Functions

General



Electronic Brake Control Module: Description and Operation General

DESCRIPTION

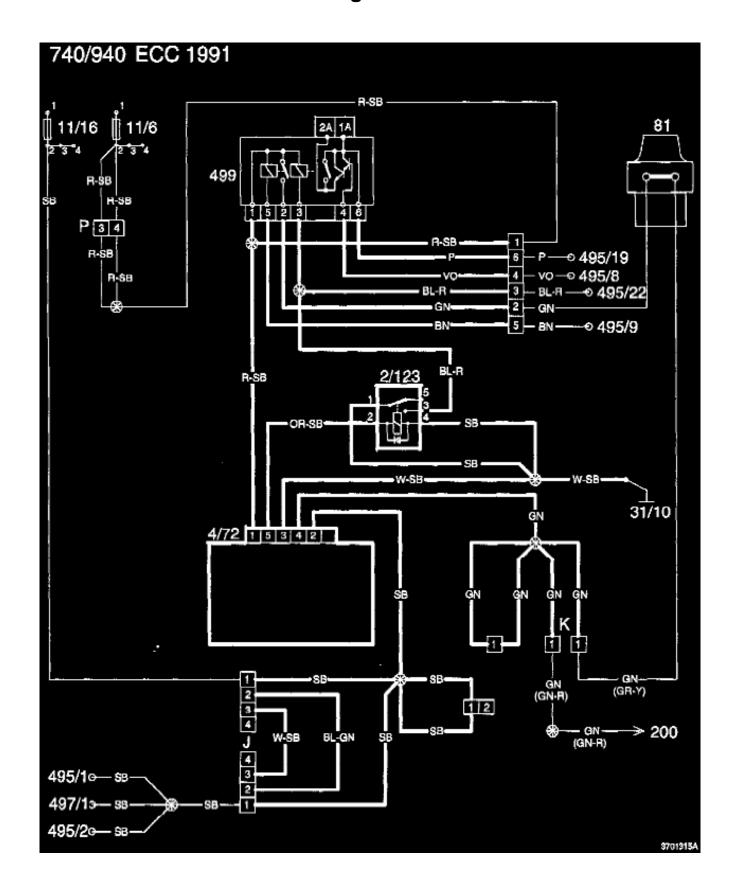
The control module (3A/3B) measures and controls the speed of the wheels during braking in response to signals from the wheel sensors (1, 2). This is designed to prevent the wheels locking.

OPERATION

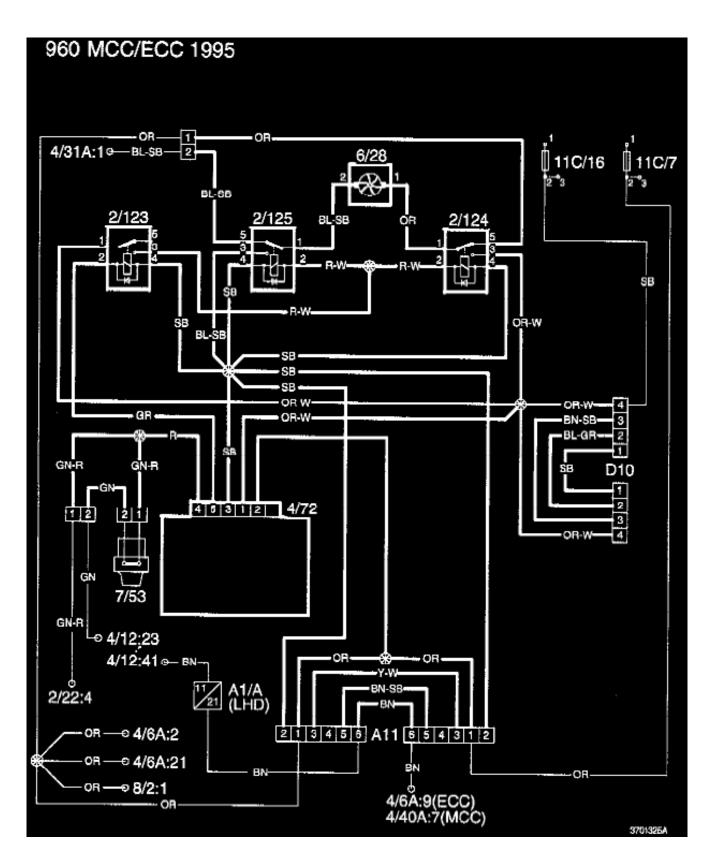
Input signals come from inductive sensors which detect the speed of the wheels. The output signals from the control module control the three solenoid hydraulic valves and the pump motor. During braking, the control module processes the sensor signals, calculates the speed of the wheels, retardation, road speed and wheel slip. If any of the wheels threatens to lock during braking, the control module sends a command to the valves in the hydraulic modulator which immediately adjust the pressure in the brake circuit to that wheel (or both rear wheels) to maintain maximum braking power while giving the driver maximum control of the car. Increasing or decreasing the brake pressure keeps the wheels just short of locking point to give the tires the maximum grip on the road. This working cycle is continuous and repeated many times a second. The control module is connected to the rest of the system via a 35-pin connector. When the ignition is switched on, the control module switches the ABS warning light (6) on and makes an initial check to see that there are no internal faults in the system and that the signals from the sensors are correct. At the same time, it triggers the valve relay (8) to provide power to the hydraulic modulator valves. If no faults are found, the warning light goes out about 2 seconds after starting the engine. When the car moves off and reaches a speed of over 6 km/h for the first time, the control module makes a brief check (approx. 20 milliseconds) to see that the hydraulic pump is working by triggering the pump relay (10) and starting the pump. The control module then checks the valves by activating each one in turn. As well as this initial check, the control module makes constant checks

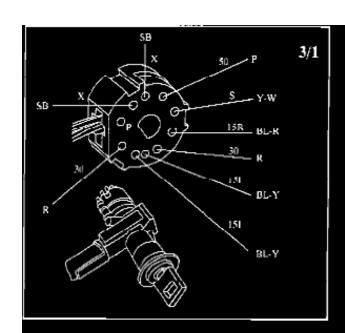
to see that all input and output signals and components are working properly and that there are no internal faults in the control module itself. If it finds a fault, it switches the ABS warning light on and disables the ABS system. The system then works like any conventional braking system. The control module stores details of faults in the form of DTCs.

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Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

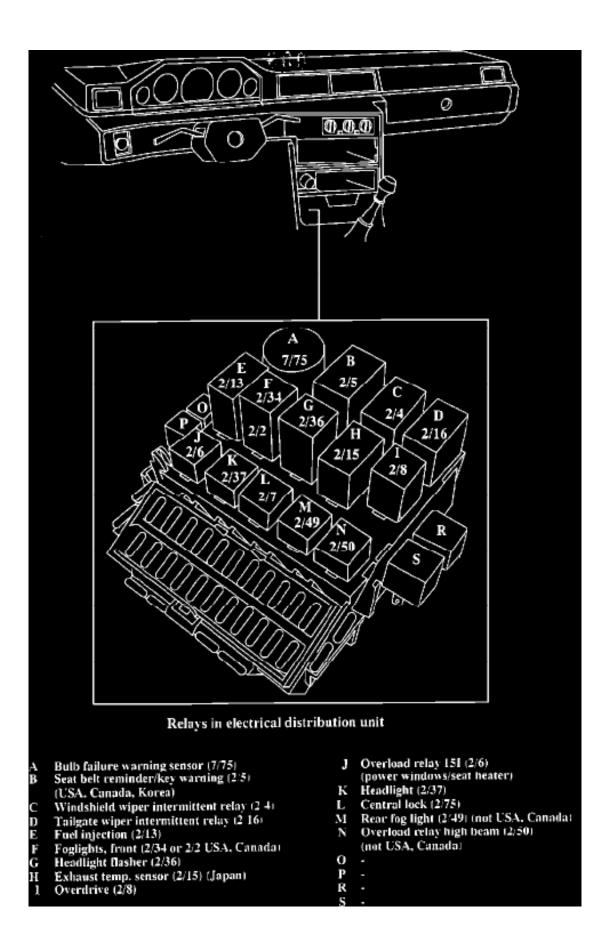
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

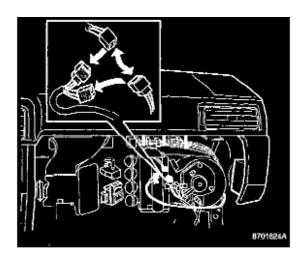
2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

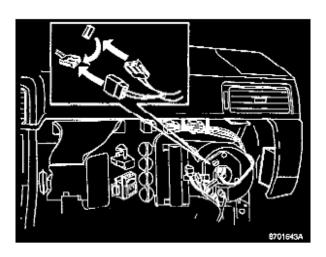
2/14 Relay, glow plug (D 24 TIC)

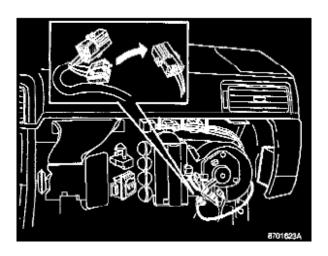
2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		









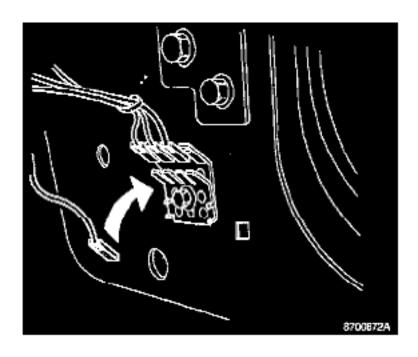
F6 Connect white 6-pin cable harness connectors The new cable harness should be connected between the existing connectors on the climate unit - passenger compartment cable harnesses, (All

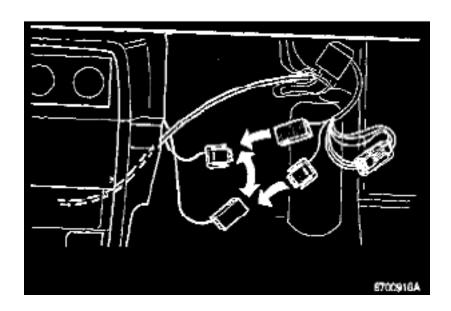
in wiring diagram).

F7 Connect 2-pin cable harness connectors The new 2-pin cable harness connectors should be connected between the blower motor and the existing cable harness, (6128 in wiring diagram).

F8 Connect 4-pin cable harness connectors The new 4-pin cable harness connectors should be connected to the accessory connectors (D10 in wiring diagram).

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C9 Connection to ground plate -

Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.

C10 Cable harness connections -

Locate connector on cable harness between heater and dashboard (on side of centre console). Separate connector and connect new and old connectors for each model year:

1991 model year: -

Connect 4-pin connectors, which have 3 cables and are included in the kit cable harness, to existing connectors.

92-94 model year (shown here): -

Connect 2-pin connectors, with 1 cable included in the kit cable harness, to existing connectors.

- Connect connectors not connected to existing cable harness, to each other.

Function verification and information

C11 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor.

The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.

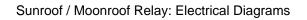
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

C12 Finishing off

- Replace all parts removed.
- Reset the clock and enter the anti-theft radio code if required.

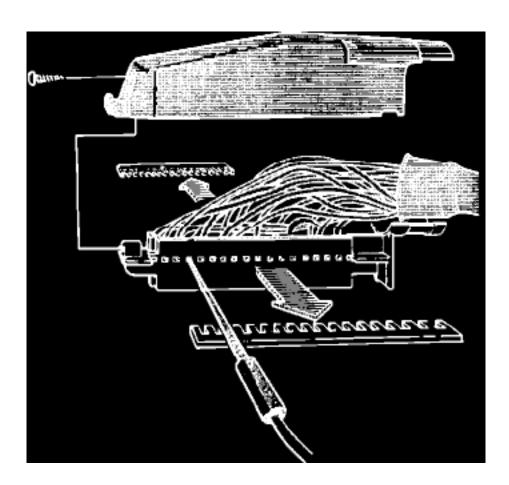


Refer to "Body and Frame: Sunroof/Moonroof: Diagrams: Electrical".

Locations

Power Seat Relay: Locations

Refer to "Body and Frame : Seats : Locations : Components".



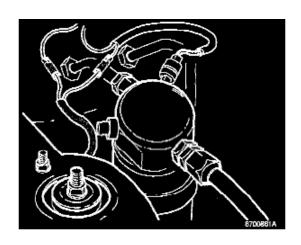
Removing Protective Sleeve

- 5. Remove connector protective sleeve and reinstall fuse #1 for testing. CAUTION:^ Never check connections from the front. Connectors can get damaged and worsen the problem.
- ^ Check connections through the holes in the connector. ^ Connection pin numbers are printed on the connector side.
- 6. Disconnect A/C cut-out relay.
- 7. Measure resistance between ECU connector pin 14 and A/C cut-out relay terminal connector #2.

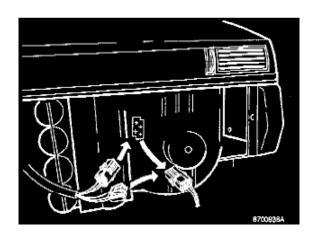
Reading: 0 ohm

If resistance is different, repair wire from ECU to relay. If wire is O.K. and an A/C system fault is suspected, see HEATING VENTILATION AND AIR CONDITIONING for testing of A/C system.

- 8. Disconnect the test equipment. Remove the #1 fuse and reconnect the ECU and all other connectors, install the kick panel and glove compartment. Ensure that the rubber seal in the ECU connector is installed before it is connected to the unit.
- 9. Reinstall the #1 fuse.







C3 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet below suspension strut brace.

- Install round housing receptacles supplied with cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.
- Connect cables from the new cable harness to the separated connectors.

C4 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

C5 Connecting cable harness to heater -

Disconnect the yellow connector from the heater and attach the yellow connector from the cable harness.

- Install the detached connector in the other cable harness yellow connector.

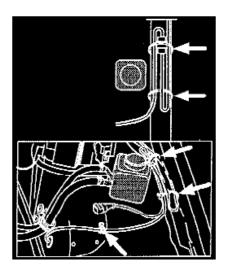
Installing control module from kit

Locations

Alarm Module: Locations

Refer to "Accessories and Optional Equipment : Antitheft and Alarm Systems : Locations : Components".

DTC	Fault posted	ABS Lamp	ABS function
(1-1-1)	No faults found by the OBD system	-	-
1-2-5	Faulty signal, over a prolonged period, from at least one wheel sensor	on	off
1-3-5	Fault in control module	ОП	off
1-4-2	Faulty brake light switch, open-circuit	off	OD
1-5-1	Left front wheel sensor, open-circuit or short circuit to +	on	off
1-5-2	Right front wheel sensor, open-circuit or short circuit to +	on	off
1-5-5	Rear axle sensor, open-circuit or short circuit to +	on	off
2-1-5	Valve relay, open-circuit or short circuit	on	off
2-3-1	Left front wheel sensor, signal absent	on	off
2-3-2	Right front wheel sensor, signal absent	on	off
2-3-5	Rear axie sensor, signal absent	on	off
4-1-1	Left front wheel valve, open-circuit or short circuit	on	off
4-1-3	Right front wheel valve, open-circuit or short circuit	on	off
4-1-5	Rear valve, open-circuit or short circuit	on	off
4-4-3	Pump motor/relay, electrical or mechanical fault	on	off



The DTCs in the table are listed numerically

When fault tracing, also see wiring diagram.

OBD ON OLDER MODELS

The new control module can be used to fault trace ABS on vehicles from 1992 up to the chassis numbers given at the beginning of this bulletin, to read off DTCs via the diagnostic unit.

Replace the existing control module with a new control module with an OBD function. Drive the car. Speed must exceed 4 mph (6 km/h). Faults will be posted by the control module which stores DTCs. These can then be read off via the diagnostic unit and test function 1. See DTC table above.

On M/Y '89-'91 fault tracing and diagnosis cannot be carried out using the new control module, as there is no diagnostic lead to the diagnostic unit.

Change location of sensor lead, M/Y '93 (Jan. - March) 940 with Rex/Regina ignition and fuel system

On cars with the Rex/Regina ignition/fuel system and an ABS control module, p/n 9130197-8, with OBD system, interference can occur in the sensor lead to the left front wheel. Interference can cause symptoms such as pulsing in the brake pedal when the car is stationary and the engine RPM is above idle. Normal braking function is not affected. If symptoms occur, modify sensor lead as per figure (see new position of sensor lead).

The routing of the sensor lead was changed from the hole in the wheel housing to the connector in the engine compartment. The lead was moved forward and pulled down towards the wheel housing plate. (See illustration). This measure was introduced into production from chassis number:

Diagram Information and Instructions

List of components

	Programme and the second		
1/1	Battery	3/52	Switch for power antenna
2/2	Relay, front foglights USA/CDN	3/59 3/66	Beam width control [dle air control (IAC) control, EGR
2/2	Regulator DIM-DIP	3/70	Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, failgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6	Bypass relay 151	4/1 4/2	Overheating protector, driver's seat
2/7 2/8	Central locking relay Overdrive relay	4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, RCC
2/13	Relay, fuel injection (MFI)	4/9	Sensor module, SRS (airbag)
2/14 2/15	Relay, glowplug mechanism Relay, exhaust gas temperature sensor	4/10 4/15	Control module EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/15	Power amplifier, EZ-K (DI) system Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34	Relay, front foglights	4/25	Control module Regina (MFI) system
2/36	Headlight flasher	4/26	Power amplifier/ignition coil REX-I (DI) system
2/37	Headlight relay	4/29	Control module driver's seat
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45 2/49	Relay, P-shift lock Relay, rear foglights	4/42 4/43	Control module REX-I (DI) system Heater controls
2/50	Bypass relay, high beam	4/43	Heater controls
23.30	Dypian tony. Mgn bonti	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		·
3/4	Cruisc control operation	6/1	Windshield wiper motor
3/5	Switch, turn signal/high-low beam	6/2	Washer motor, front
3/6 3/7	Switch, hazard warning flashers Foglight switch	6/3 6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9	Brake light switch	6/8	Central locking motor, tailgate
3/10	Backup (reversing) light switch	6/9	Window lift motor driver's door
3/12 3/13	Switch, windshield wash/wipe Switch, tallgate wash/wipe	6/10 6/11	Window lift motor driver's side rear
3/14	Switch, lock button	6/12	Window lift motor passenger's side front Window lift motor passenger's side rear
3/15	Power window switch, driver's door	6/13	Power door mirror, driver's side
	for driver's door	6/14	Power door mirror, passenger's side
3/16	Power window switch, driver's door	6/15	Motor power sunroof
	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door for passenger's side front	6/17 6/18	Motor up-down, front edge of driver's seat
3/18	Power window switch, driver's door	6/19	Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat
5,10	for passenger's side rear	6/24	Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Servo motor, throttle control
3/22 3/23	Switch for rear power window lifts	6/28	Cabin fan motor
3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pamp
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28 3/20	Switch for heated driver's seat	6/33-2	Fuel level sensor/pump
3/29 3/31	Switch for heated passenger's seat Door switch, driver's door	6/34	Power antenna Parking heater
3/32	Door switch, passenger's side front	6/35 6/36	Parking heater Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, lett
3/34	Door switch, passenger's side rear	6/39	Actuator, right
3/35	Door switch, tailgate (5-door estate)		
3/36	Switch, glove compartment	7/4	Brake fluid level sensor
3/37 3/38	Horn contacts Switch, brake pedal	7/5 7/6	Washer fluid level sensor Oil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40	Start inhibit switch, automatic transmission	7/9	Engine coolant temperature (ECT) sensor, ECC
3/42-1	Switch on transmission	7/10	Cabin temperature seasor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/44			Harried and a second second
3/47	Parking brake switch	7/15	Heated oxygen sensor (HO2S) Paging oxygent temperature (ECT) sensor
			Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification

Diagram Information and Instructions

List of components

Battery 3/52 Switch for power antenna	ver's sent senger's sent trol) (g) (system () system (E) system (EI) system (III) system (III) system (III) system (III) system (III) system (IIII) system (IIII) system (IIII) system (IIIIII) system (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
2/2 Relay, front foglights USA/CDN 2/3 Regulator DIM_DIP 2/4 Intermittent relay, windshield wipers 2/5 Relay, seat belt reminder/ignition key warning 2/6 Bypass relay 151 2/7 Central locking relay 2/8 Overdreive relay 2/10 Power unit ECC 2/11 Relay, engine cooling fan 2/12 Relay, radio interference suppression 2/13 Relay, feet injection (MFI) 2/14 Relay, eshaust gas temperature sensor 2/15 Relay, exhaust gas temperature sensor 2/16 Intermittent relay and the addight flasher 2/17 Readight flasher 2/18 Transient protector, ABS 2/18 Transient protector, ABS 2/19 Headlight flasher 2/19 Relay, exhaust gas recirculation (EGR) 2/10 Fleeding from the control operation 3/10 Relay, rear foglights 3/2 Control module Regina (Machael Reg	ver's sent senger's sent trol) (g) (system () system (E) system (EI) system (III) system (III) system (III) system (III) system (III) system (IIII) system (IIII) system (IIII) system (IIIIII) system (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
2/4 Intermittent relay, windshield wipers 3/78 Lock unit, tailgate	ver's sent senger's sent trol) (g) (system () system (E) system (EI) system (III) system (III) system (III) system (III) system (III) system (IIII) system (IIII) system (IIII) system (IIIIII) system (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Intermittent relay, windshield wipers 3/78	senger's seat () (g) (system () system () system (E) system (E1) system (E1) system (E1) system (I) system (I
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0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

Fu	se no. Function	Fus	e no. Functions
1	Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel Solenoid, pulsed secondary air injection (PAIR) (B230FD)
2	Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Power door mirrors Cigar lighter Radio Tailgate washer
3	Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor
4	Brake lights Solenoid P-shift lock	15	Relays, power seats Horn
5	Clock Vanity mirror		Windshield wash/wipe Headlight wash/wipe
	Glove compartment lighting Trunk light Interior lighting	16	Cabin fan, standard heater Cabin fan, Manual Climate Control (MCC) Electronic Climate Control (ECC)
	Radio Power antenna	17	Left high beam Indicator light, high beam
	Door-open warning lights CD-changer	18	Right high beam Relay, front foglights (not USA, Canada)
6	Anti-theft alarm Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)	19	Left low beam Beam width control Relay, front foglights
7	Front foglights Rear foglights (not USA, Canada)	20	Right low beam Beam width control
8 9	Power windows Turn signals Warning lights for seat belts	21	Left parking lights, front and rear Number plate lights Instrument and control panel lights
	Seat belt reminder Ignition key warning Bypass relay 151 (power windows/seat heating) Solenoid P-shift lock	22	Ambient temperature sensor Relay, front foglights Right parking lights, front and rear Ashtray light, rear
10	(Towing hook) Heated rear window		Automatic transmission selector illumination Lighting, switches and storage compartment in centre console
**	Power sunroof Heated door mirrors	23 24	Heated front seats Spare
11	Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI)	25	Rear foglights (not USA, Canada) Disconnectable low beam (Nordic market, Netherlands, Belgium)
12	Oxygen sensor (HO2S) heating Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan) Cruise control Anti-theft alarm	26	Amplifier, radio

Fuse Functions

Diagram Information and Instructions

List of components

1/1	Battery	3/52	Switch for power antenna
an.	Dalas, from Saaliahte USA (CDN)	3/59	Beam width control
2/2 2/3	Relay, front foglights USA/CDN Regulator DIM-DIP	3/66 3/70	Idle air control (IAC) control, EGR Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6	Bypass relay 15I	4/1	Overheating protector, driver's seat
2/7 2/8	Central locking relay Overdrive relay	4/2 4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, ECC
2/13 2/14	Relay, fuel injection (MFI)	4/9 4/10	Sensor module, SRS (airbag)
2/15	Relay, glowplug mechanism Relay, exhaust gas temperature sensor	4/15	Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34 2/36	Relay, front foglights	4/25	Control module Regina (MFI) system
2/37	Headlight flasher Headlight relay	4/26 4/29	Power amplifier/ignition coil REX-I (DI) system Control module driver's sent
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49	Relay, rear foglights	4/43	Heater controls
2/50	Bypass relay, high beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		Tallotolli valipeterete sellot
3/4	Cruise control operation	6/1	Windshield wiper motor
3/5	Switch, turn signal/high-low beam	6/2	Washer motor, front
3/6 3/7	Switch, hazard warning flashers Foglight switch	6/3 6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
212	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9 3/10	Brake light switch Backup (reversing) light switch	6/8 6/9	Central locking motor, tailgate Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door for driver's door	6/13 6/14	Power door mirror, driver's side
3/16	Power window switch, driver's door	6/15	Power door mirror, passenger's side Motor power sunroof
2,10	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
7/10	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door for passenger's side rear	6/19 6/24	Motor fore-aft, driver's seat Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Serve motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23 3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28 3/29	Switch for heated driver's seat Switch for heated passenger's seat	6/33-2 6/34	Fuel level sensor/pump Power antenna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, lett
3/34 3/35	Door switch, passenger's side rear	6/39	Actuator, right
3/36	Duor switch, tailgate (5-door estate) Switch, glove compartment	7/4	Brake fluid level sensor
3/37	Horn contacts	7/5	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40 3/42-1	Start inhibit switch, automatic transmission Switch on transmission	7/9 7/10	Engine coolant temperature (ECT) sensor, ECC Cubin temperature sensor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47 2/50	Parking trake switch Theorite position (TP) switch	7/15 7/16	Heated oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolent temperature (ECT) sensor, fuel/ignition (MFI/DI) system
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Component Index And Identification

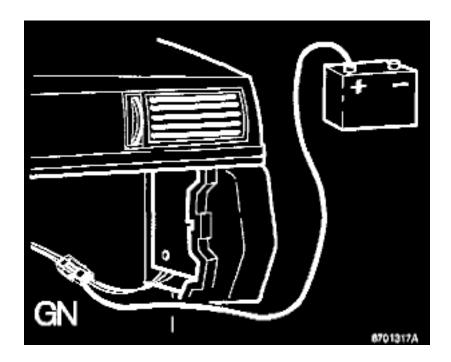
Diagram Information and Instructions

List of components

1/1	Battery	3/52	Switch for power antenna
an.	Dalas, from Saaliahte USA (CDN)	3/59	Beam width control
2/2 2/3	Relay, front foglights USA/CDN Regulator DIM-DIP	3/66 3/70	Idle air control (IAC) control, EGR Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5	Relay, seat belt reminder/ignition key warning		
2/6	Bypass relay 15I	4/1	Overheating protector, driver's seat
2/7 2/8	Central locking relay Overdrive relay	4/2 4/3	Overheating protector, passenger's seat Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12	Relay, radio interference suppression	4/6	Control module, ECC
2/13 2/14	Relay, fuel injection (MFI)	4/9 4/10	Sensor module, SRS (airbag)
2/15	Relay, glowplug mechanism Relay, exhaust gas temperature sensor	4/15	Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18	Transient protector, ABS	4/23	Control module LH-jetronic 2.4 (MFI) system
2/34 2/36	Relay, front foglights	4/25	Control module Regina (MFI) system
2/37	Headlight flasher Headlight relay	4/26 4/29	Power amplifier/ignition coil REX-I (DI) system Control module driver's sent
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49	Relay, rear foglights	4/43	Heater controls
2/50	Bypass relay, high beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		Tallotolli tollipeterete sellsol
3/4	Cruise control operation	6/1	Windshield wiper motor
3/5	Switch, turn signal/high-low beam	6/2	Washer motor, front
3/6 3/7	Switch, hazard warning flashers Foglight switch	6/3 6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
212	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/9 3/10	Brake light switch Backup (reversing) light switch	6/8 6/9	Central locking motor, tailgate Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door for driver's door	6/13 6/14	Power door mirror, driver's side
3/16	Power window switch, driver's door	6/15	Power door mirror, passenger's side Motor power sunroof
2,10	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
7/10	for passenger's side front	6/18	Motor up-down, rear edge of driver's seat
3/18	Power window switch, driver's door for passenger's side rear	6/19 6/24	Motor fore-aft, driver's seat Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Serve motor, throttle control
3/22	Switch for rear power window lifts	6/28	Cabin fan motor
3/23 3/24	Switch for power door mirror, driver's side Switch for power door mirror, passenger's side	6/29 6/30	Engine cooling fan Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27	Operating module, passenger's seat	6/33-1	Fuel level sensor/primer pump
3/28 3/29	Switch for heated driver's seat Switch for heated passenger's seat	6/33-2 6/34	Fuel level sensor/pump Power antenna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33	Door switch, driver's side rear	6/38	Actuator, lett
3/34 3/35	Door switch, passenger's side rear	6/39	Actuator, right
3/36	Duor switch, tailgate (5-door estate) Switch, glove compartment	7/4	Brake fluid level sensor
3/37	Horn contacts	7/5	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39	Switch, clutch pedal	7/7	Engine coolant temperature (ECT) sensor
3/40 3/42-1	Start inhibit switch, automatic transmission Switch on transmission	7/9 7/10	Engine coolant temperature (ECT) sensor, ECC Cubin temperature sensor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47 2/50	Parking trake switch Theorite position (TP) switch	7/15 7/16	Heated oxygen sensor (HO2S)
3/50	Throttle position (TP) switch	7/16	Engine coolent temperature (ECT) sensor, fuel/ignition (MFI/DI) system
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Component Index And Identification

17/1	Source and the state of the sta		S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single service of the form	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	Col	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		C72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17 31/26	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63 31/64	Ground connector at steering column bracket Ground connector engine cooling fan	C111	Connector, at thermoelement, 2-pin Connector, 2-pin
SIL	Ground Connector engine cooring ran	CIII	Left wheel housing harness - Engine harness
C1	Connector, 53-pin	C121	Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel	C122	Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin Right wheel housing harness - Engine harness
	Instrument panel harness - Right wheel	C139	Connector, at gear selector, 4-pin
	housing harness	C143	Connector, at A-post passenger's side, 24-pin
පුදු	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
Co	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin Connector, 3-pin or 1-pin
Cli	Connector, at el. dist. unit, 4-pin	0134	Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin		Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15 C19	Connector, left A-post, 4-pin	C157	
C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin	C161	Connector, at instrument panel, 6-pin Connector, at firewall, 1-pin
C21	Connector, left B-post, 4-pin	C162	
C22	Connector, at tailgate, & pair (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, twilgate, 2-pin, (3-door) Connector, tailgate, 1-pin, (5-door)	D2 D3	Connector, alarm, 8-pin at steering column Connector, alarm, 4-pin at steering column
C29	Connector, tangate, 1-pin, (3-door) Connector, at driver's seat, 4-pin	D4	Connector, alarm, 4-pin at steering commin Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin		left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



Function verification and Information

D12 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

D13 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

D14 Information to Car Owner Carry out operations at the end this service bulletin.

Installing Control Module/Cables 780 ECC 1988

Installing control module and cables 780 ECC model year 1988-

E1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

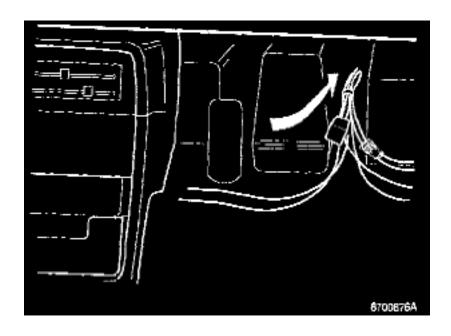
See Service Manual:

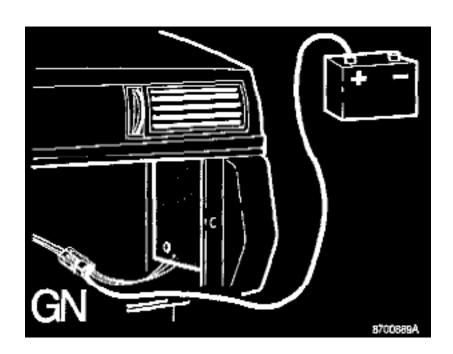
Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections E2

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
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31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

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Connection and mounting of control module -

Connect cable harness connector to control module connector.

- Apply three sections of butyl tape to the control module.
- Install control module on dashboard side section with butyl tape.

A13 Installation of cable harness -

Arrange cable harness as shown.

- Fasten the new cable harness using cable tie on the existing cable harness ensuring that the harness cannot come into contact with the heater shutter spindle.

Function verification and information

A14 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system so that the compressor starts. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

A15 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

A16 Information to car owner -

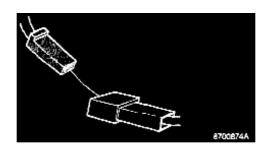
Carry out operations at the end of this service bulletin.

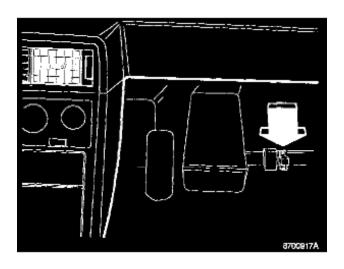
Installing Control Module/Cables/740/940 w/MCC year 1991

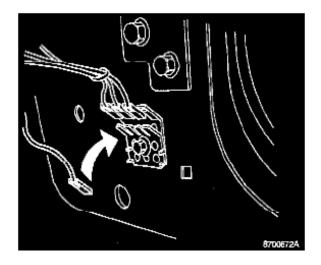
Installing control module and cables 740/940 with MCC model year 1991-

В1

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single search of the searc	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		







A7 Connecting the new cable harness to the 5 housing receptacles -

Attach housing receptacles to the cable harness tab terminals according to cable colour coding (colour-to-colour match)

A8 Connecting new cable harness to blower relay -

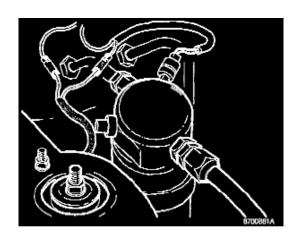
Connect the 5-pin cable harness connector to the blower relay.

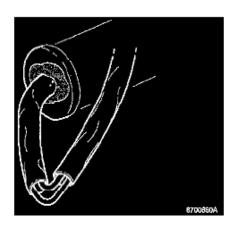
See Service Manual: Section 3 (39) Wiring diagrams 740 1990

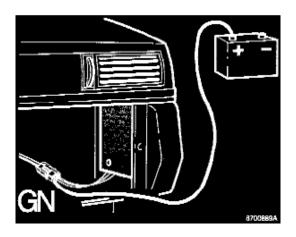
A9 Connection of cable to ground plate -

Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.







B11 Route cables to engine compartment -

Route cables without housing receptacles to engine compartment through unused cutout in grommet under suspension strut brace.

- Attach the round housing receptacles included in the new cable harness on the cables in the engine compartment.
- Separate existing connectors on the cable between the A/C compressor and the receiver/drier.
- Connect cables from the new cable harness to the separated connectors.

B12 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

Function verification and information

B13 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to control module connector. Connect to green cable, connector

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II hadd a salday	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left from toging hight	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

A/C - Unpleasent Odor On Startup

Туре	Model year	Materials kit P/N	Working method page / section	Wiring diagrams page
740 MCC	1988 - 90	9148652-2	2 / A	33
740/940 MCC	1991 -	9148653-0	7/B	34, 35, 36
740/940 ECC	1991 - 95	9148554-8	12 / C	37, 38
760/960 MCC/ECC	1988 - 94	9148655-5	16 / D	39, 40
780 ECC	1988 - 91	9162435-3	20 / E	41
960 MCC/ECC	1995 -	9171003-8	24 / F	42
S90/V90 MCC/ECC	1997 -	9171003-8	24 / F	43
940 ECC	1996 -	9447728-8	29 / G	44
List of Components			45	
Information for the d	river		47	

Technical Service Bulletin # 887955 Date: 970901

A/C - Unpleasent Odor On Startup

SECTION

8

GROUP

87

NO. 955

DATE Sept. 1997

RE: Odor from evaporator 700/900/S90/V90 1988-

REFERENCE: TP 8701201, SECTION 8(87) CLIMATE UNITS: 700/900 1992- TP 3701201, SECTION 3(37) WIRING REPAIRS, AND REPLACEMENT OF CABLE TERMINALS; 850900 TP 3502201, SECTION 3(35-39) LIGHTING, INSTRUMENTATION AND OTHER ELECTRICAL EQUIPMENT; 700/900 1982-

SERVICE BULLETIN 87-948, EVAPORATOR ODOR TREATMENT

This Service Bulletin replaces earlier Service Bulletin 87-955 from September 1996, which should be discarded.

Odor from evaporator, installation of blower fan control module

Under humid conditions the ECC unit can cause an unpleasant odor on start-up, especially when the temperature outside is high. This Odor often disappears when humidity levels drops. The Odor can be caused by dirt or micro-organisms in the evaporator.

A control module can be installed to eliminate the recurrence of the Odor. This starts the blower fan and airs residual dampness out of the evaporator.

If the compressor has been running more than 4 minutes and the ignition is then turned off for 50 minutes, the control module starts the blower fan automatically and runs an airing out cycle at max. Blower speed for approximately 5 minutes.

Special tools needed: Wiring repair kit, P/N 9814235-9

NOTE:

After installing the airing cycle unit, copy and attach the last page.

Installing Control Module and Cables/740 MCC 1988-90

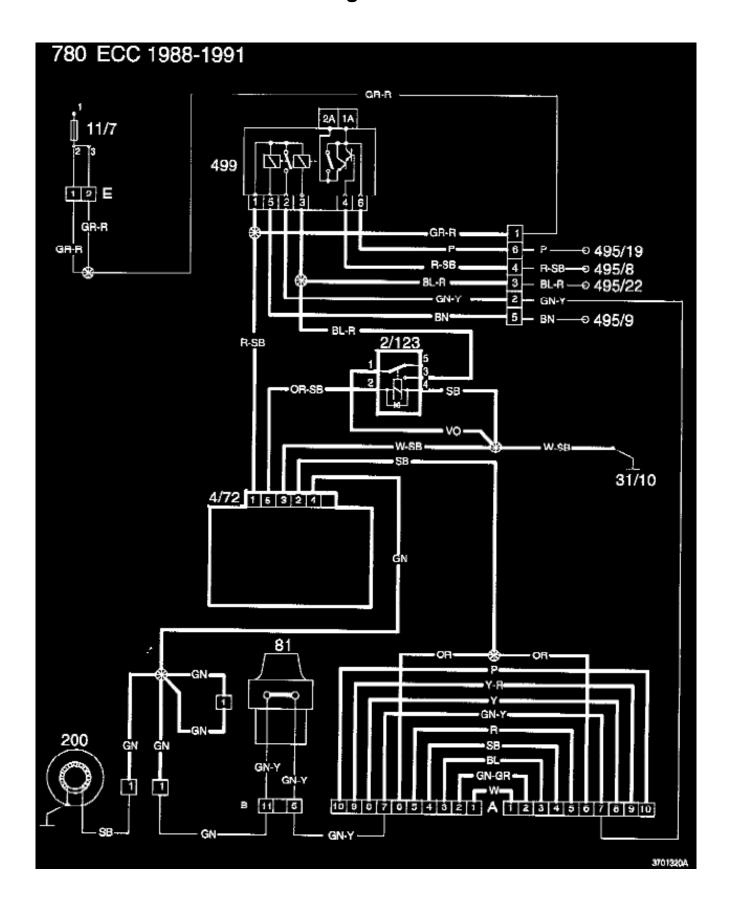
Installing control module and cables 740 MCC model year 1988-90

A1 Preparations -

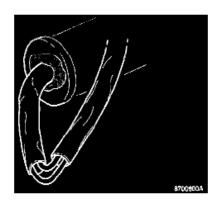
Clean evaporator according to Service Manual:

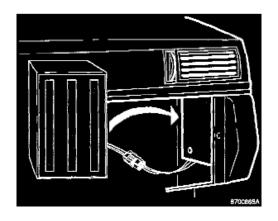
Section 8(87) Climate control

Page 227









A10 Route cables to engine compartment -

Route the green cables on the cable harness to the engine compartment through the vacant hole in the grommet under the brace to the suspension tower.

1988 and 1989 model years: -

Connect the flat connectors.

Year model 1990 cars (shown here): -

Connect the round connectors.

- Connect all unconnected connectors to each other.

A11 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

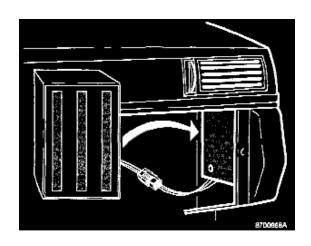
The cut conduit section should be placed at the lowest point along the route of the cable.

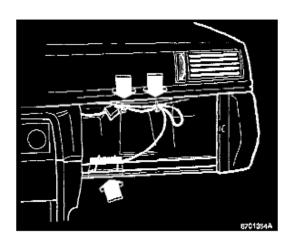
- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

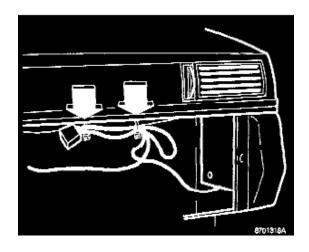
Installing control module from kit

A12

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II hadd a salday	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
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8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		







C6 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

Connect control module and cable harness connectors.

- Apply three strips of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

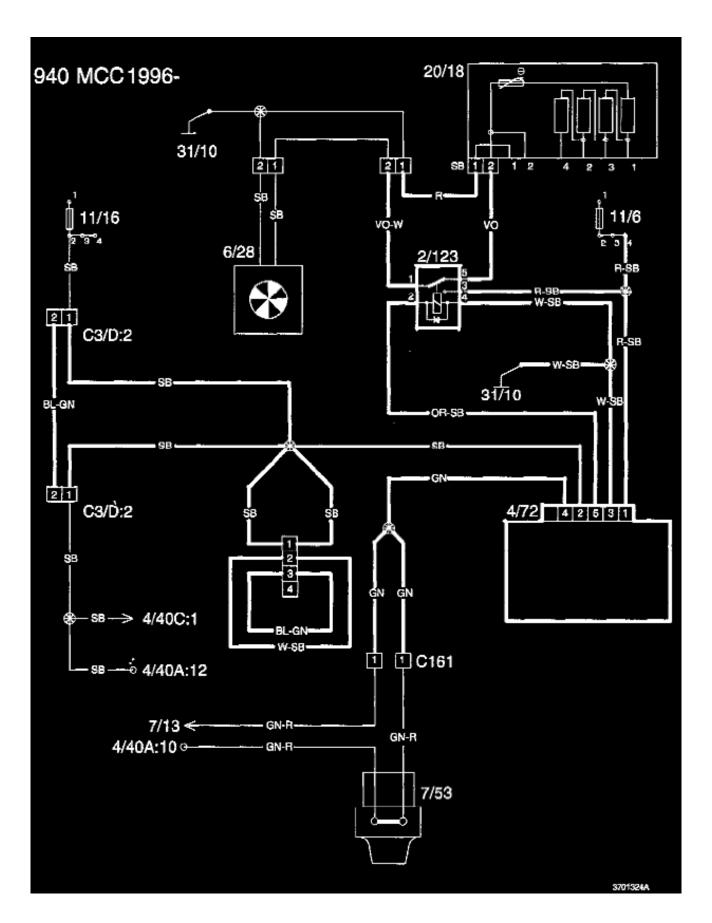
C7 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster -

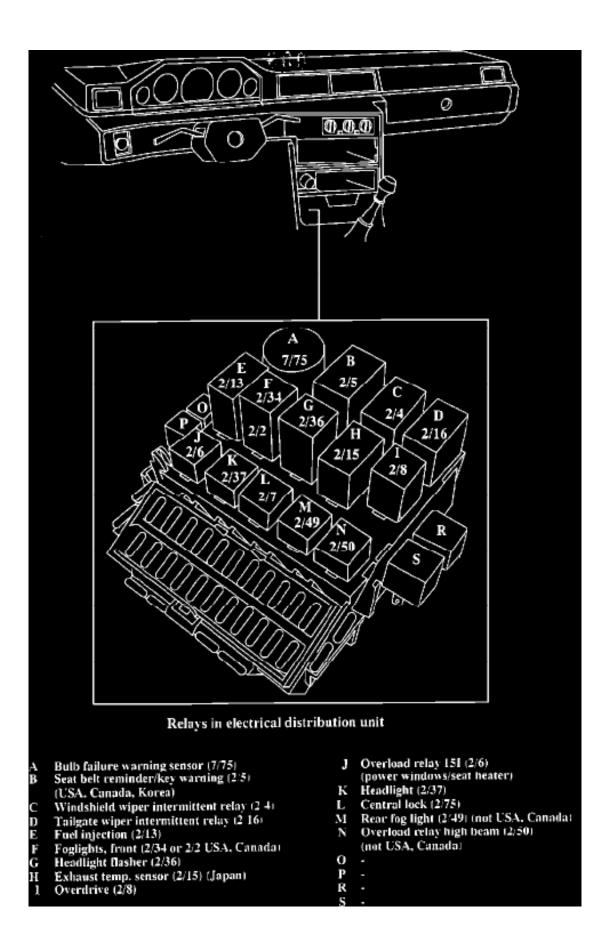
Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Attach cable harness to existing cable harness at side of SAS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

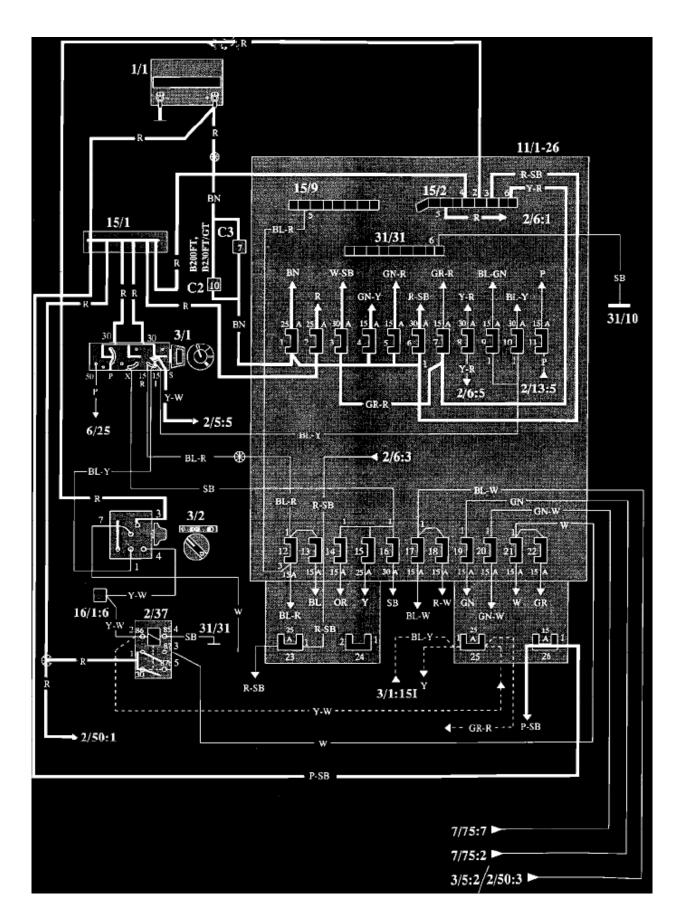
C8 Fastening cables In cars without SRS (Airbag) and knee bolster -

Attach cable harness to existing cable harness with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.



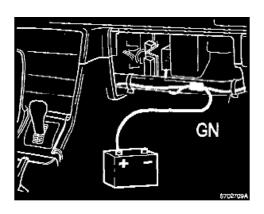


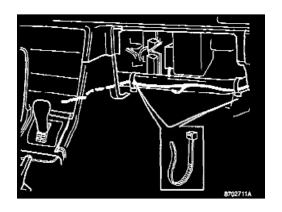
Locations

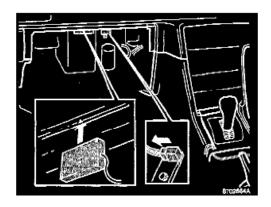


Fuse/Relay Identification and Location

Electrical Distribution Unit







Connect battery lead and start car.

- Turn on A/C system to start compressor.

The A/C system starts if the temperature exceeds approx. 7°C (45°F). -

Make up a cable (about 2 meters in length) to connect battery positive terminal to control module connector.

Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating. -

Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

G8 Fastening cables -

Clamp cable harness in position using tie straps on the front of the air duct below glove compartment.

- Use the eyelet on the connector to fasten the tie straps.
- Clamp cable harness in position using the straps on the front of the air duct above glove compartment (not shown in illustration).
- Use the eyelet on the connector to fasten the tie straps.

Diagram Information and Instructions

List of components

	•		
1/1	Battery	3/52	Switch for power antenna
2/2	Relay, front foglights USA/CDN	3/59 3/66	Beam width control (dle air control (IAC) control, EGR
2/2	Regulator DIM-DIP	3/70	Thermostat setting
2/4	Intermittent relay, windshield wipers	3/78	Lock unit, tailgate
2/5 2/6	Relay, seat belt reminder/ignition key warning	414	Out the state of t
2/6	Bypass relay 151 Central locking relay	4/1 4/2	Overheating protector, driver's seat Overheating protector, passenger's seat
2/8	Overdrive relay	4/3	Control module, cruise control
2/10	Power unit ECC	4/4	Rheostat
2/11	Relay, engine cooling fan	4/5	Safety circuit, SRS (airbag)
2/12 2/13	Relay, radio interference suppression Relay, fuel injection (MFI)	4/K 4/9	Control module, FCC Server module, SPS (sighes)
2/14	Relay, glowplug mechanism	4/10	Sensor module, SRS (airbag) Control module EZ-K (DI) system
2/15	Relay, exhaust gas temperature sensor	4/15	Power amplifier, EZ-K (DI) system
2/16	Intermittent tailgate wiper relay	4/16	Control module ABS
2/18 2/34	Transient protector, ABS	4/23 4/25	Control module LH-jetronic 2.4 (MFI) system
2/36	Relay, front foglights Headlight flasher	4/26	Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system
2/37	Headlight relay	4/29	Control module driver's sent
2/38	Timer relay, exhaust gas recirculation (EGR)	4/40	A/C controls, MCC
2/45	Relay, P-shift lock	4/42	Control module REX-I (DI) system
2/49 2/50	Relay, rear foglights Bypass relay, high beam	4/43	Heater controls
2/30	Dypass reiny, nigh beam	5/1	Combined instrument
3/1	Ignition lock	5/3	Ambient temperature sensor
3/2	Light switch		
3/4	Cruisc control operation	6/1	Windshield wiper motor
3/5 3/6	Switch, turn signal/high-low beam Switch, hazard warning flashers	6/2 6/3	Washer motor, front Plobs handlight when every
3/7	Foglight switch	6/4	Right headlight wiper motor Left headlight wiper motor
3/8-1	Switch, heated rear window	6/5	Central locking motor, passenger's side front
3/8-2	Switch with timer relay, heated	6/6	Central locking motor, passenger's side rear
3/9	rear window/door mirrors	6/7	Central locking motor, driver's side rear
3/10	Brake light switch Backup (reversing) light switch	6/8 6/9	Central locking motor, tailgate Window lift motor driver's door
3/12	Switch, windshield wash/wipe	6/10	Window lift motor driver's side rear
3/13	Switch, tallgate wash/wipe	6/11	Window lift motor passenger's side front
3/14	Switch, lock button	6/12	Window lift motor passenger's side rear
3/15	Power window switch, driver's door for driver's door	6/13 6/14	Power door mirror, driver's side Power door mirror, passenger's side
3/16	Power window switch, driver's door	6/15	Motor power sunroof
	for driver's side rear door	6/16	Motor driver's seat backrest
3/17	Power window switch, driver's door	6/17	Motor up-down, front edge of driver's seat
3/18	for passenger's side front Power window switch, driver's door	6/18 6/19	Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat
5/10	for passenger's side rear	6/24	Vacuum, cruise control
3/19	Power window switch, driver's side rear	6/25	Starter motor
3/20	Power window switch, passenger's side front	6/26	Generator
3/21	Power window switch, passenger's side rear	6/27	Servo motor, throttle control
3/22 3/23	Switch for rear power window lifts Switch for power door mirror, driver's side	6/28 6/29	Cabin fan motor Engine cooling fan
3/24	Switch for power door mirror, arriver's side	6/30	Washer motor, tailgate
3/25	Switch for power sunroof	6/31	Fuel pump
3/26	Operating module, driver's seat	6/32	Tailgate wiper motor
3/27 3/28	Operating module, passenger's seat Switch for heated driver's seat	6/33-1 6/33-2	Fuel level sensor/primer pump Fuel level sensor/pump
3/29	Switch for heated passenger's seat	6/34	Power antonna
3/31	Door switch, driver's door	6/35	Parking heater
3/32	Door switch, passenger's side front	6/36	Central locking motor, driver's side front
3/33 3/34	Door switch, driver's side rear	6/38	Actuator, lett
3/34	Door switch, passenger's side rear Door switch, tailgate (5-door estate)	6/39	Actuator, right
3/36	Switch, glove compartment	7/4	Broke fluid level sensor
3/37	Horn contacts	7/2	Washer fluid level sensor
3/38	Switch, brake pedal	7/6	Oil pressure sensor
3/39 3/40	Switch, ciutch pedal Start inhibit switch, automatic transmission	7/7	Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC
3/42-1	Switch on transmission	7/9 7/10	Engine coolant temperature (EC1) sensor, ECC Cabin temperature sensor
3/42-2	Oil pressure sensor, kick-down valve	7/11	Ambient temperature sensor
3/43	Switch in gear lever	7/12	Solar sensor
3/44	Seat belt lock, driver's seat	7/14	Thermostat, engine cooling fan
3/47 3/50	Parking brake switch Throttle position (TP) switch	7/15 7/16	Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor,
21,210	Throate position (117) Switch	7/10	fuel/ignition (MFI/DI) system
			, January 12 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -

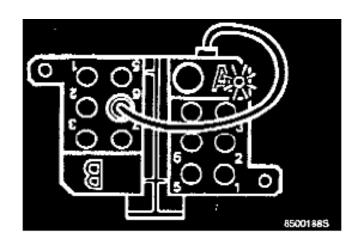
Component Index And Identification

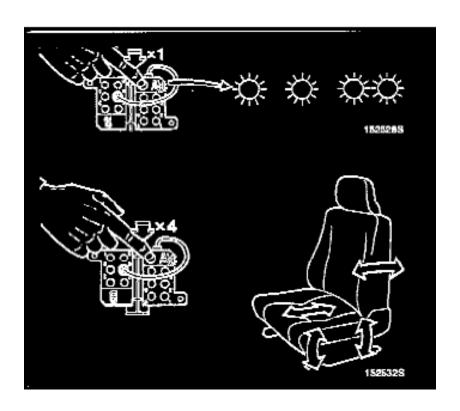
17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
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31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
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C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		





Applies to: 960, 1992-1993 4-door models to chassis No. 018366 incl. 5-door models to chassis No. 012112 incl.

Note:

Power seats in the above models can be operated only with the ignition on.

В1

- Switch off ignition

B2

- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.

B3

Ignition must be off for at least 5 seconds before performing this step.

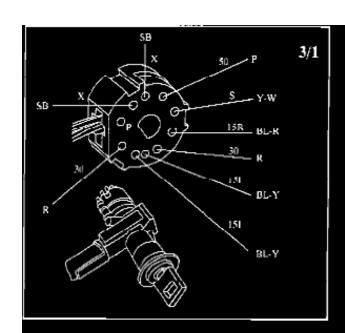
- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

B4

- Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

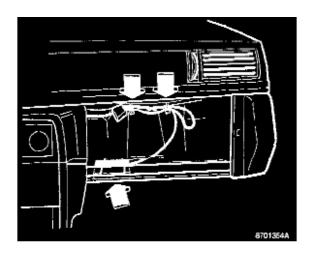
2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

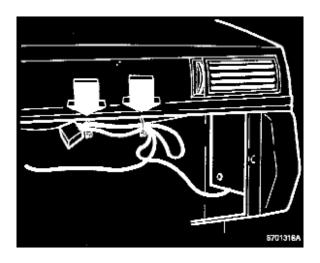
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

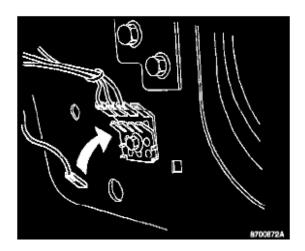
2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)







Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

Connect control module and cable harness connectors.

- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

B8 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster

- Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.
- Attach cable harness to existing cable harness at side of SRS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

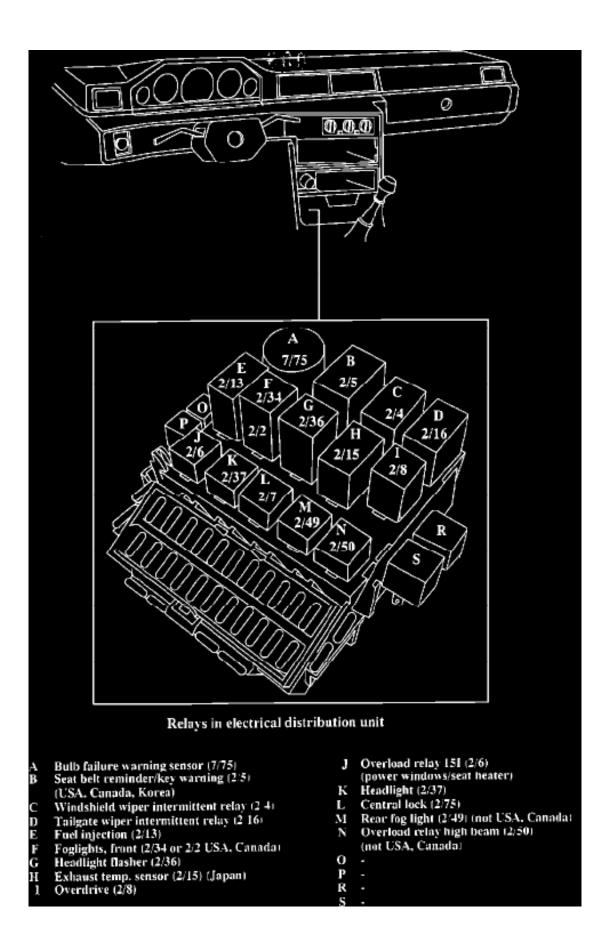
B9 Fastening cables in cars without SRS (Airbag) and knee bolster -

Attach cable harness to existing cable harness module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

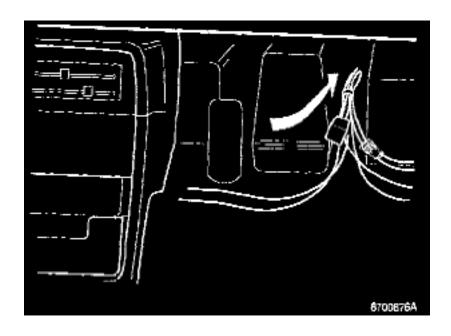
B10 Connection of cable to ground plate -

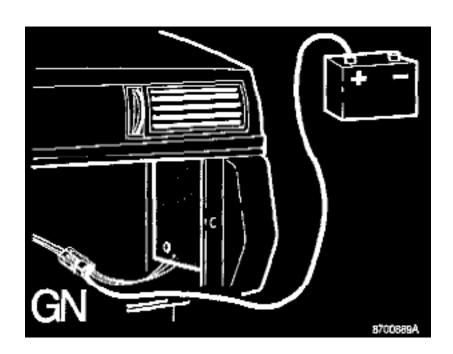
Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.



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Connection and mounting of control module -

Connect cable harness connector to control module connector.

- Apply three sections of butyl tape to the control module.
- Install control module on dashboard side section with butyl tape.

A13 Installation of cable harness -

Arrange cable harness as shown.

- Fasten the new cable harness using cable tie on the existing cable harness ensuring that the harness cannot come into contact with the heater shutter spindle.

Function verification and information

A14 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system so that the compressor starts. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

A15 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

A16 Information to car owner -

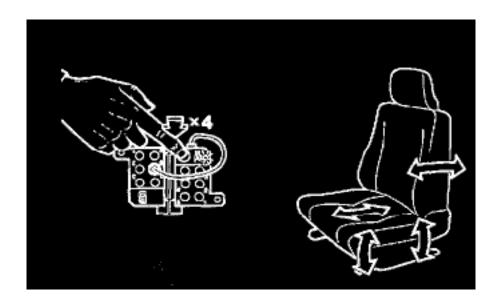
Carry out operations at the end of this service bulletin.

Installing Control Module/Cables/740/940 w/MCC year 1991

Installing control module and cables 740/940 with MCC model year 1991-

В1

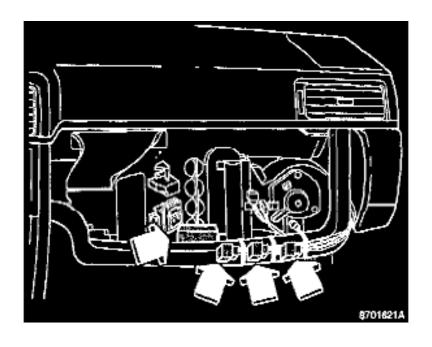
Page 55

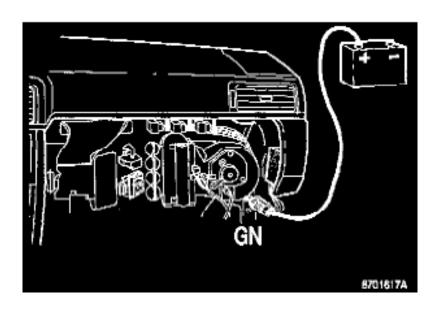


Check

- Calibrate seat.
- Check function.

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		





F11 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster -

Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Locate cable harness with relays between air hose and knee bolster.

NOTE:

Prevent condensation dropping onto relays by ensuring that they are not placed beneath the air hose.

- Fasten to air hose with cable ties.

Installing control module from kit.

F12 Function verification and information Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is running.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

Remove cable between connector and battery.

F13 Finishing off -

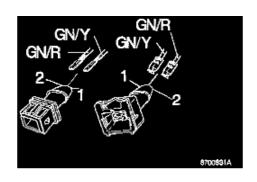
Reinstall all components removed.

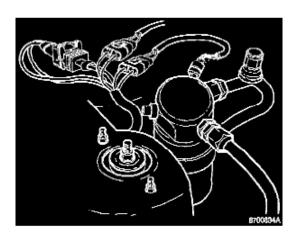
- Reset the clock and enter the anti-theft radio code if required.

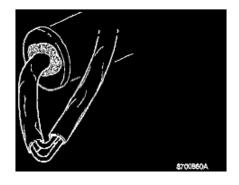
F14 Information to Car Owner Carry out operations at the end of this service bulletin.

Installing Control Module/Cable 940 W/ECC 1996-

Installing control module and cables 940 with ECC model year 1996-







Route the cables which do not have connectors to the engine compartment through an unused hole in the grommet under the brace to the suspension strut.

- Connect green-yellow cables to connector terminal 1.
- Connect green-red cables to connector terminal 2.

D4 Route cables to engine compartment (cent.) -

Separate the existing connector at the boost air overpressure switch and connect round or flat tab terminals with housing receptacles from the new cable harness for each model year:

1988-1991 model year (shown here): -

Connect round connector.

1992 model year: -

Connect flat connector.

- Connect all unconnected connectors to each other.
- Clamp cables to existing cables with a cable tie.

D5 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
77-70	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	O d local local description	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25		16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30		16/10 16/11	Horn 1 Horn 2
10/31 10/32		16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34		16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
10/39	Switch lighting, seat heater		

Locations



Refer to "Engine, Cooling and Exhaust: Cooling System: Locations: Components".

Locations

Refer to "Body and Frame: Sunroof/Moonroof: Locations: Components".

17/1	Supplies and the first state of the state of	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
10/1	Province and the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, at right headingsh, 5-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
31/3	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, fight A-post, 2-pin Connector, driver's door, 4-pin
,	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector right A-post Ground connector left tail light	C88 C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power amenna, 4-pin
31/26 31/28	Ground connector, generator	C100	
31/31	Ground connector at overdrive solenoid Ground connection raif in el. distribution unit	C101	Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	Connector on bridge connector 1, 2-pin
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	C117	Connector, 2-pin
C1	Connector, 53-pin	Č121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
-	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C	housing harness	C137	Connector, 4-pin
C3	Connector, 53-pin Instrument panel harness - Right wheel	C130	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	474 44	Connector, at A-post passenger's side, 24-pin
C5	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
C12	Connector, at el. dist. unit, 4-pin Connector, at el. dist. unit, 2-pin		Right wheel housing harness - engine cooling fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	Connector, at cl. dist. unit, 4-pin
C19	Connector, at instrument panel, 2-pin		Connector, at instrument panel, 6-pin
C20 C21	Connector, under gear lever carrier, 1-pin or 2-pin	C161	
C21	Connector, left B-post, 4-pin Connector, at tailgate, 6-pin (5-door)	C162 C163	
C23	Connector, at tailgate, 2-pin (5-door)	C103	Connector, at Intowan, 2 pin (dieser)
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tailgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C27	Connector, tailgate, 1-pin, (5-door)	D3	Connector, alarm, 4-pin at steering column
C29 C31	Connector, at driver's seat, 4-pin	D4	Connector, alarm, 2-pin in engine compartment,
C32	Connector, at passenger's seat, 2-pin Connector, at driver's seat, 2-pin	D5	left front Connector, towing hook, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

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C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
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C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
77-0	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7770	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II had had been been	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/85	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side
10/29		16/9	Antenna U 1
10/30		16/10	Horn 1
10/31	Door-open warning light, front passenger's side	16/11 16/15	Horn 2 CD-changer
10/32 10/33	Door-open warning light, rear driver's side Door-open warning light, rear passenger's side	16/13	Loudspeaker, rear parcel shelf, left side
10/33	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36		10/10	Top Speaker, rear parour strong right stoo
10/38			
	A STATE OF THE PARTY OF THE PAR		
10/39	Switch lighting, seat heater		

SOLENOI	D VALV	E REL	AY
Key	OFF	ON	Volts
(Pin 20 to 32)		1	010
Jump (Pin 10to 27	7)	V	
(Pin 20 to 32)		V	11 - 14

BRAKE SWITCH	
Brakes	Volts
Not Applied (Pin 10 to 25)	0.0 - 0.5
Applied (Pin 10 to 25)	11 - 14

ABS INDICATOR LAMP			
Key ON	Volts		
(Pin 10 to 29) ABS lamp ON I	ess than 1		
Engine Idling			
(Pin 10 to 29) ABS lamp OFF	13 - 14.5		

WHEEL SPEED SENSO	DRS
Key On (Rotate Wheel 1 rev/sec)	AC Volts
Left Front (Pin 4 to 5-6-22)**	V >.075
Right Front (Pin 21 to 11-23)**	V >.075
Left Rear/Rear (Pin 9 to 7-8)**	V >.075
Right Rear (Pin 26 to 24)**	V> .075

GROUNDS	
Key Off Disconnect ECU)	Ohms
(Pin 10 to G1)	0.0 - 0.1
(Pin 20 to G1)	0.0 - 0.1
(Pin 34 to G1)	0.0 - 0.1

WHEEL SPEED SENS	SORS
Key Off (Disconnect ECU)	Ohms
Left Front (Pin 4 to 5-6-22)*	800 - 1400
Right Front (Pin 21 to 11-23)**	800 - 1400
Left Rear (Pin 9 to 7-8)**	800 - 1400
Rear (Pin 9 to 7)**	600 - 1100
Right Rear (Pin 26 to 24)**	800 - 1400

SOLENOID VALVES	
Key Off (Disconnect ECU)	Ohms
Left Front (Pin 2 to 32)	0.8 - 1.5
Right Front (Pin 35 to 32)	0.8 - 1.5
Left Rear/Rear (Pin 18 to 32)	0.8 - 1.5
Right Rear (Pin 19 to 32)**	0.8 - 1.5

Brake Switch

ABS Indicator Lamp

Wheel Speed Sensors

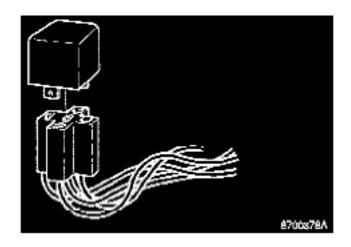
Ohms Measurements

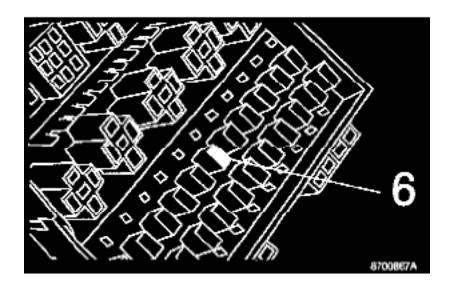
Grounds

Wheel Speed Sensors

Solenoid Valves

Page 195





Preparations -

Clean evaporator according to Service Manual:

Section 8(87) Climate control 700/900 1982- section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.
- Ashtray.
- Cigarette lighter.
- Storage compartment.
- Detach and pull out central electronics module.

Refer to Service Manual: Section 3(35-39) Lighting, instrumentation (see group 37) and other electrical equipment 700/900 1982- Section 8(82-86, 88) Interior, exterior 700/900 1982-

B2 Cable connections Installing new relay on cable harness -

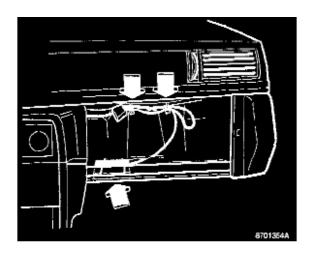
Take out cable harness (P/N 9148756) supplied with kit.

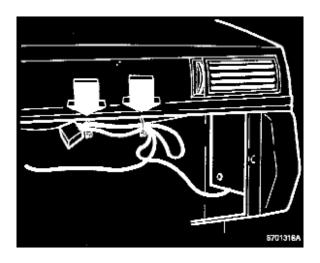
- Connect the relay in the kit to the 5-pin connector which is attached to the same end of the cable harness as the black-red cable.

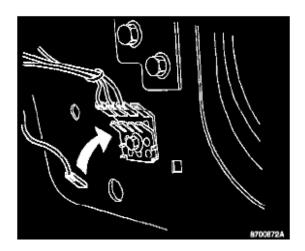
B3 Attaching cable harness with relay -

Attach relay and cable harness above the heater vacuum reservoir, using a cable tie.

- Route the red-black cable inside the centre console side panel to the central electronics module.
- Connect cable to fuse 6 in terminal 4.
- Use cable tie to attach to existing cable harness.







Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

Connect control module and cable harness connectors.

- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

B8 Connecting and mounting control module in cars with SRS (Airbag) and knee bolster

- Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.
- Attach cable harness to existing cable harness at side of SRS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

B9 Fastening cables in cars without SRS (Airbag) and knee bolster -

Attach cable harness to existing cable harness module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

B10 Connection of cable to ground plate -

Connect the black-white cable included in the new cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.

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31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator	C100	
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C5	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C5 C5	Connector, at el. dist. unit, 4-pin	C149	Connector, at B-post passenger's side, 11-pin
C7	Connector, at steering column, 8-pin		Connector, at B-post driver's side, 11-pin
C9 C11	Connector, at centre console, 10-pin	C154	Connector, 3-pin or 1-pin
C12	Connector, at el. dist. unit, 4-pin Connector, at el. dist. unit, 2-pin		Right wheel housing harness - engine cooling fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin		Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	Connector, at cl. dist. unit, 4-pin
C19	Connector, at instrument panel, 2-pin		Connector, at instrument panel, 6-pin
C20 C21	Connector, under gear lever carrier, 1-pin or 2-pin	C161	
C21	Connector, left B-post, 4-pin Connector, at tailgate, 6-pin (5-door)	C162 C163	
C23	Connector, at tailgate, 2-pin (5-door)	C103	Connector, at Intowan, 2 pin (dieser)
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tailgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C27	Connector, tailgate, 1-pin, (5-door)	D3	Connector, alarm, 4-pin at steering column
C29 C31	Connector, at driver's seat, 4-pin	D4	Connector, alarm, 2-pin in engine compartment,
C32	Connector, at passenger's seat, 2-pin Connector, at driver's seat, 2-pin	D5	left front Connector, towing hook, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

	Torslanda:1	Uddevalla:A	Halifax:3
124126	124323	122175	123789
073706	074788	072508	074262
032219	-	-	
012665			
ί	073706 032219	073706 074788 032219 -	073706 074788 072508 032219

Electronic Brake Control Module: Description and Operation Special Notes For Reading DTC's

Chassis Number Table

In older models (1992-93), with chassis numbers as shown in the table, a control module with built-in diagnostic function can be used as a 'special tool' for reading off DTCs via the DLC. The control module part numbers are 913 0197-8 or 912 8853-0.

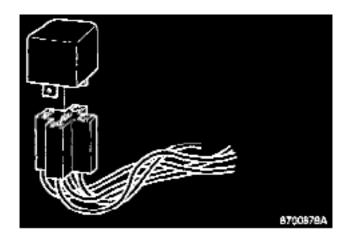
- Replace the existing control module with the unit with the built-in diagnostic function.
- Drive the car at over 4 miles/h (6 km/h). The control module will record any faults and post DTCs. These can then be read out via the DLC in DTM 1.

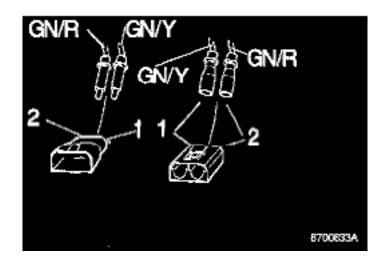
With pre-92 models (1989-91), the new control module cannot be used for fault-tracing or diagnosis, as the DLC is not wired up.

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single search of the searc	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II hadd a salday	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left from toging hight	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

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C13 Information to Car Owner -

Carry out operations at the end of this service bulletin.

Install. Control Module/Cables 760/960 W/MCC-ECC 1988-94

Installing control module and cables 760/960 MCC/ECC model year 1988-94

D1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on left and right sides.
- Glove compartment.
- Cowl on passenger side.

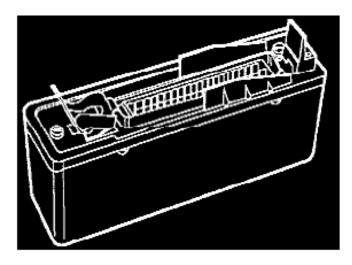
Refer to Service Manual: Section 8(82-86, 88) Interior, exterior 700/900 1982- Cable connections

D2 Installing new relay on cable harness -

Take out cable harness (P/N 9148758) supplied with kit.

- Install relay supplied in the 5-pin connector.

ABS & OBD Systems - Revised



	Factory/Code: Kalmar: 0	Torslanda: 1	Halifax: 3
944;	124126	124323	123789
945:	073706	074788	074262
964:	032219	-	-
965:	012665	-	-

Electronic Brake Control Module: Technical Service Bulletins ABS & OBD Systems - Revised

MODEL 700-900

GROUP 59

NUMBER 904

MARKET US and Canada

DATE May 1993

TITLE ABS BRAKING SYSTEM AND ON-BOARD DIAGNOSTIC (OBD) SYSTEM

700/900 1992-->

REFERENCE: TP 31085/1 (ENGLISH); 05/89; ABS BRAKE SYSTEM WIRING DIAGRAM TP 32208/1 (ENGLISH); 12/92; WIRING DIAGRAMS 940 1993 TP 32200/1 (ENGLISH); 11/92; WIRING DIAGRAMS 960 1993

ABS braking system and on-board diagnostic (OBD) system

Replaced ABS control module, with an integral OBD function, p/n 9130197-8, was introduced into production from the illustrated chassis numbers.

From production month 4/93 the control module has a new p/n, 9128853-0. This control module is a replacement part and replaces older control modules on models from 1989 on.

The new control module OBD function is connected to position 3, diagnostic unit A in the engine compartment. When the control module discovers a fault, the ABS indicator lamp lights at the same time as it stores a DTC. During fault tracing/diagnosis the DTC can be read with the VST or by using the LED on the diagnostic unit by activating test function 1. See DTC table.

DTC TABLE

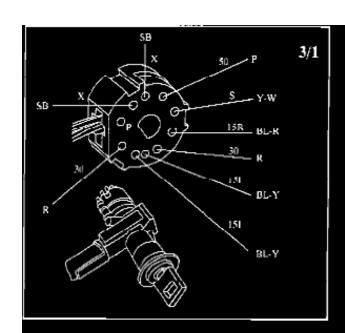
17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A distribution	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left front parking light	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Overheating protector, driver's seat Bypass relay 151 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Central locking relay Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door 6/31 6/32 6/33-1 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 0/33-2 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/3 7/6 7/7 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid level sensor Switch, brake pedal Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Seat belt lock, driver's seat Solar sensor Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

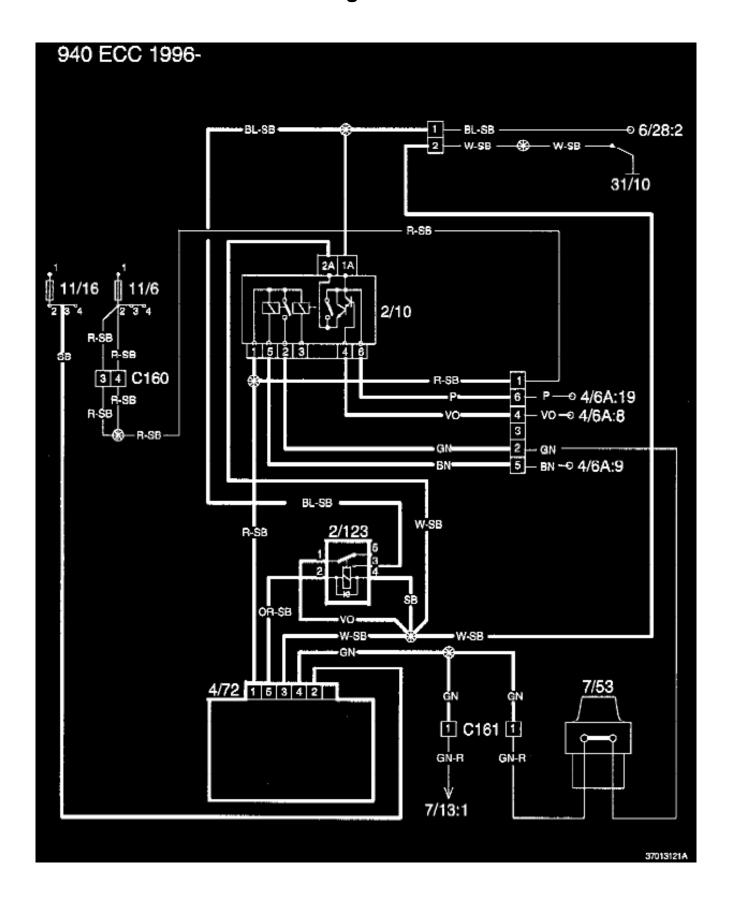
2/38 Timer relay, exhaust feedback EGR (D 24 TIC)

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A II hadd a salday	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left from toging hight	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
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10/19	Extra brake light	16/3	Loudspeaker, right front door
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10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

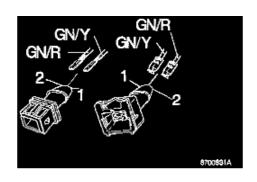
Locations

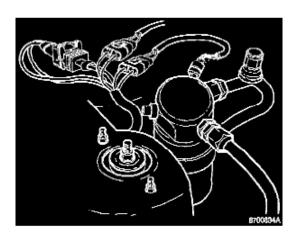
Refer to "Body and Frame: Locks: Locations: Components".

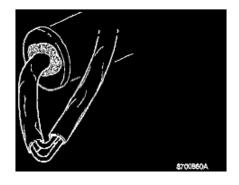
Page 230



Refer to "Lighting and Horns: Fog/Driving Lamp: Diagrams: Electrical".







Route the cables which do not have connectors to the engine compartment through an unused hole in the grommet under the brace to the suspension strut.

- Connect green-yellow cables to connector terminal 1.
- Connect green-red cables to connector terminal 2.

D4 Route cables to engine compartment (cent.) -

Separate the existing connector at the boost air overpressure switch and connect round or flat tab terminals with housing receptacles from the new cable harness for each model year:

1988-1991 model year (shown here): -

Connect round connector.

1992 model year: -

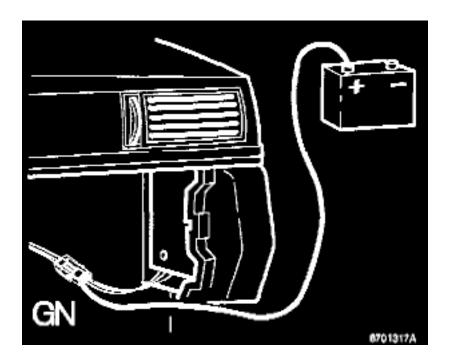
Connect flat connector.

- Connect all unconnected connectors to each other.
- Clamp cables to existing cables with a cable tie.

D5 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.



Function verification and Information

D12 Check airing cycle is working -

Connect battery lead and start car.

- Turn on A/C system to start compressor. The A/C system starts if the temperature exceeds approx. 7°C (45°F).
- Make up a cable (about 2 meters (6 ft.) in length) to connect battery positive terminal to the connector on the control module. Connect to green cable, connector terminal 6, for at least 30 seconds while compressor is operating.
- Turn off engine.

Airing cycle should begin after approximately 10 seconds and continue for approximately 1 second.

- Remove cable between connector and battery.

D13 Finishing off -

Reinstall all components removed.

- Reset the clock and enter the anti-theft radio code if required.

D14 Information to Car Owner Carry out operations at the end this service bulletin.

Installing Control Module/Cables 780 ECC 1988

Installing control module and cables 780 ECC model year 1988-

E1 Preparations -

Clean evaporator according to Service Manual: Section 8(87)

Climate control 700/900 1982- Section Y

- Make note of radio code if anti-theft coded radio installed.

Remove: -

Negative battery lead.

- Sound insulation on passenger side.
- Glove compartment.
- Cowl on passenger side.

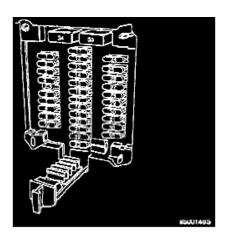
See Service Manual:

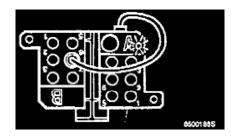
Section 8(82-86, 88) Interior, exterior 700/900 1982-

Cable connections E2

Fu	se no. Function	Fuse no. Functions			
1	Fuel pump (LH-2.4 MFI) Fuel system Direct Ignition (DI) system	13	Fuel valve, diesel Pre-heating mechanism, diesel EGR diesel Solenoid, pulsed secondary air injection (PAIR) (B230FD)		
2	Oxygen sensor (HO2S) heating (B200/230FT) Hazard warning flashers Headlight flasher (vio fuse 17 and 18) Central locking Anti-theft alarm	14	Power door mirrors Cigar lighter Radio Tailgate washer		
3	Power seats (Towing hook)		Tailgate wiper Ambient temperature sensor		
4	Brake lights Solenoid P-shift lock Clock	15	Relays, power seats Horn Windshield wash/wipe		
	Vanity mirror Glove compartment lighting Trunk light	16	Headlight wash/wipe Cabin fan, standard heater Cabin fan, Manual Climate Control (MCC)		
	Interior lighting Radio	17	Electronic Climate Control (ECC) Left high beam		
	Power antenna Door-open warning lights	18	Indicator light, high beam Right high beam Relay, front foglights (not USA, Canada)		
	CD-changer Anti-theft alarm Electronic Climate Control (ECC)	19	Left low beam Beam width control		
5	Cabin fan, Electronic Climate Control (ECC)	20	Relay, front foglights Right low beam		
7	Front foglights Rear foglights (not USA, Canada)		Beam width control		
9	Power windows Turn signals Warning lights for seat belts Seat belt reminder	21	Left parking lights, front and rear Number plate lights Instrument and control panel lights Ambient temperature sensor		
	Ignition key warning Bypass relay 15I (power windows/seat heating) Solenoid P-shift lock	22	Relay, front foglights Right parking lights, front and rear Ashtray light, rear		
10	(Towing hook) Heated rear window Power sunroof	23	Automatic transmission selector illumination Lighting, switches and storage compartment in centre console Heated front seats		
11	Heated door mirrors Fuel primer pump in fuel tank (LH-2.4 MFI)	24 25	Spare Rear foglights (not USA, Canada)		
	Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating	26	Disconnectable low beam (Nordic market, Netherlands, Belgium Amplifier, radio		
2	Backup (reversing) lights Overdrive relay Bulb failure sensor with brake monitor Exhaust temperature sensor (Japan) Cruise control				

Fuse Functions





- Remove circuit breaker 35. Fusebox is located at left-hand end of dashboard.

Ignition must be off for at least 5 seconds before performing this step.

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

D5

- Reinstall circuit breaker 35.

Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

- Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

Method For Version 5 (E)

Applies to: 940/960 from 1994 on

Unlike later 1993 variants, fault tracing or calibration of power seats in the above models can be carried out without removing the fuses.

Note:

The seat can be operated with the ignition switched off.

E1

- Switch off ignition.

E2

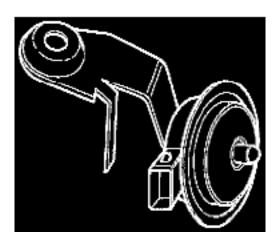
- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, driver's seat Central locking relay Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Headlight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers Windshield wiper motor Washer motor, front 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 0/33-2 6/34 Power antenna Parking heater 6/35 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/3 7/6 7/7 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid ievel sensor Switch, brake pedal Qil pressure sensor On pressure sensor Engine coolant temperature (ECT) sensor Engine coolant temperature (ECT) sensor, ECC Cabin temperature sensor Ambient temperature sensor Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission 3/40 3/42-1 3/42-2 7/9 7/10 7/11 7/12 7/14 7/15 7/16 Oil pressure sensor, kick-down valve 3/43 3/44 3/47 3/50 Switch in gear lever Solar sensor Seat belt lock, driver's seat Thermostat. engine cooling fan Parking brake switch Throttle position (TP) switch Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Component Index And Identification





Alarm Module: Description and Operation

Guard Alarm II System Relay

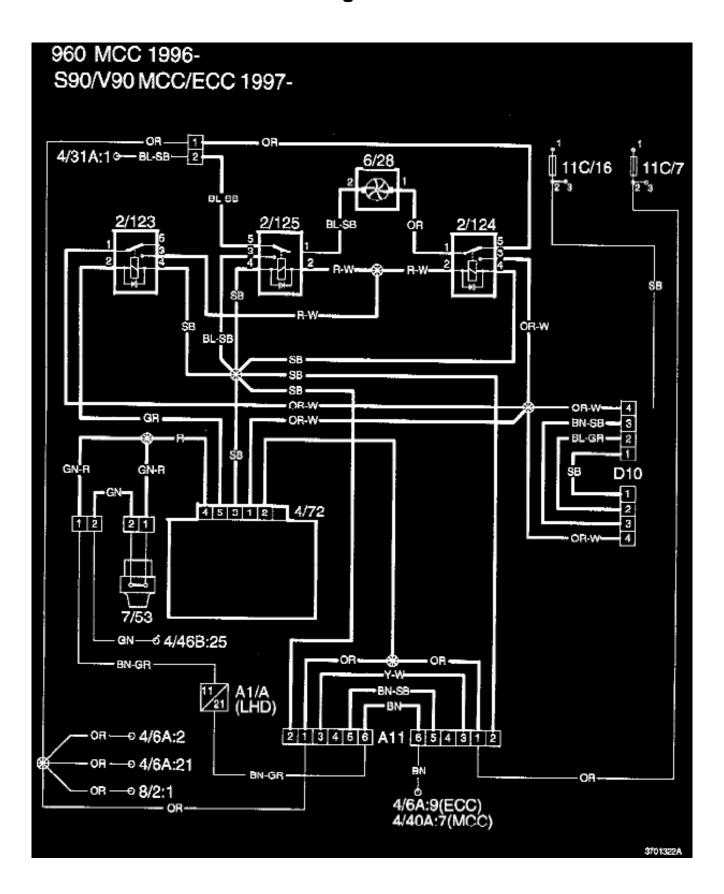
The control module contains a pre-programmed microprocessor which can be reprogrammed for different functions. It is possible to store up to four different key codes for each remote in the micro-processor. There are three built-in relays for:

- Start inhibitor
- Visual signal
- Sound signal

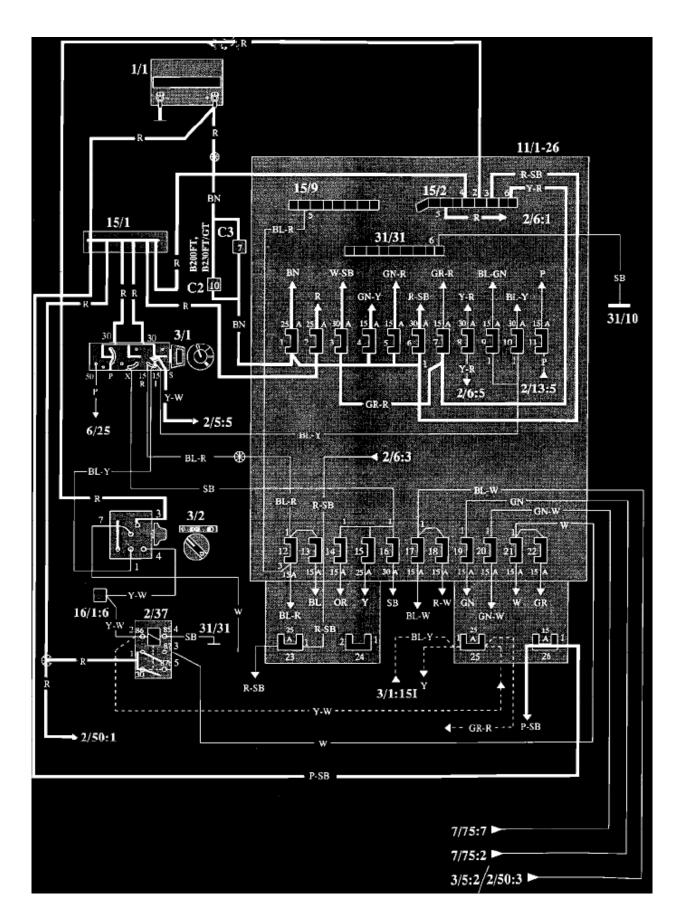


Refer to "Body and Frame: Seats: Diagrams: Electrical".

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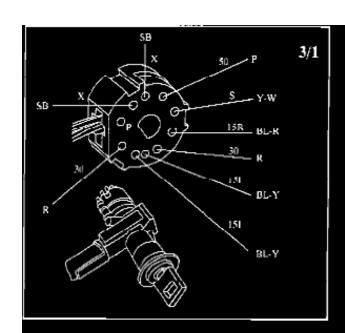
Locations



Fuse/Relay Identification and Location

Electrical Distribution Unit

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



Ignition lock

Inputs

30: two leads from battery

Outputs

Key position:
Key withdrawn
Off

Voltage at connection;

0 Off I Radio II Drive III Start S,P X,S,P X,15R,15LS 15R,50,S

Relay location in engine compartment



2/11* Relay, engine cooling fan (B 200 F, G, B 230 F/FB/FD/G)

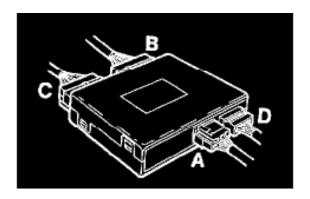
2/11** Relay, engine cooling fan (B 200 FT, B 230 FT/GT)

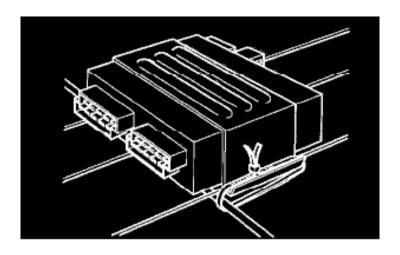
2/12* Relay, interference suppression (B 200 F/G, B 230 F/FB/FD/G)

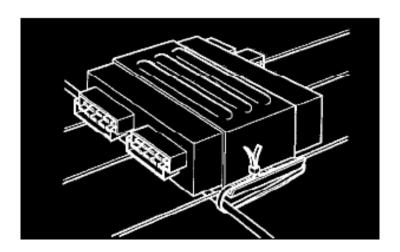
2/12** Relay, interference suppression (B 200 FT, B 230 FT/GT)

2/14 Relay, glow plug (D 24 TIC)

2/38 Timer relay, exhaust feedback EGR (D 24 TIC)







Power Seat Control Module: Service and Repair

Control module for power seat, change

Remove:

Preparations

- Remove battery negative lead and note any radio code.
- Remove seat from vehicle. See: Body and Frame/Seats/Service and Repair/Remove Seat From Vehicle

Connector

- Disconnect all 4 control module connectors.

Remove control module

- Unhook control module fixing plate at front edge.
- Lift fixing plate clear at front edge and remove control module.

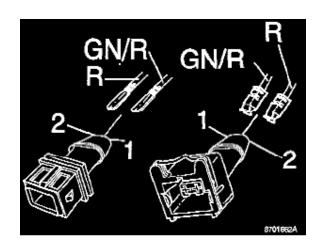
Replace:

Replacement of control module

- Replace control module.
- Replace fixing plate at front edge.
- Replace the 4 connectors. Check that connectors are properly connected.

Replacement

- Replace seat in vehicle. See: Body and Frame/Seats/Service and Repair/Remove Seat From Vehicle
- Replace battery negative lead.







Route the cables which do not have connectors to the engine compartment through an unused hole in the grommet under the brace to the suspension strut.

- Connect green-red cable to connector terminal 1.
- Connect green cable to connector terminal 2.

F4

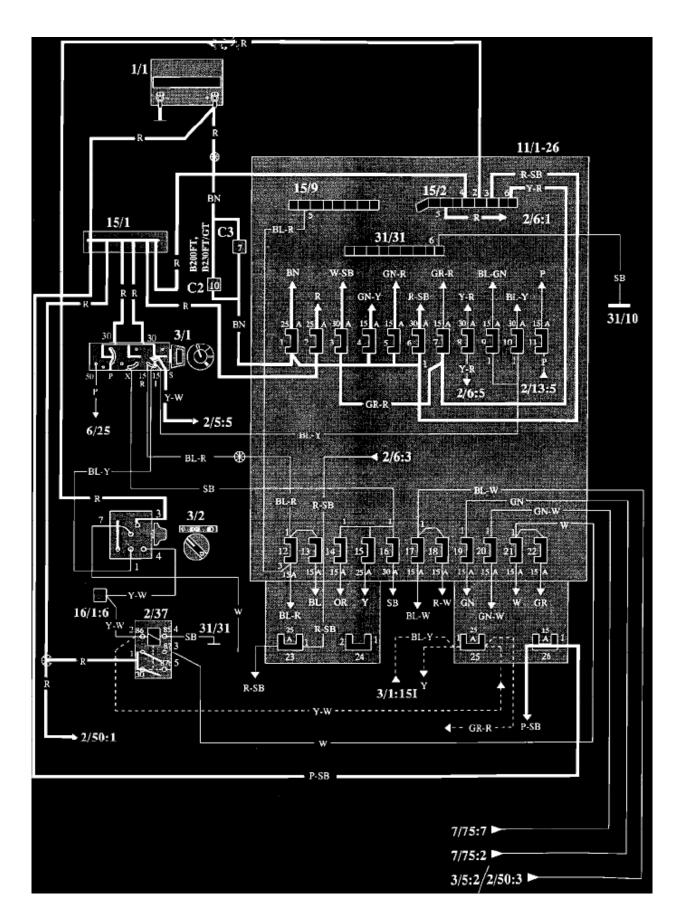
- Separate existing connectors at the boost pressure switch and connect connector from the new cable harness.

F5 Location of cable sheath opening The cable sheath is cut to drain off condensation. -

The cut conduit section should be placed at the lowest point along the route of the cable.

- Use butyl tape to seal the grommet.
- Use existing cable tie to clamp cables to firewall.

Connecting cable harness in passenger compartment



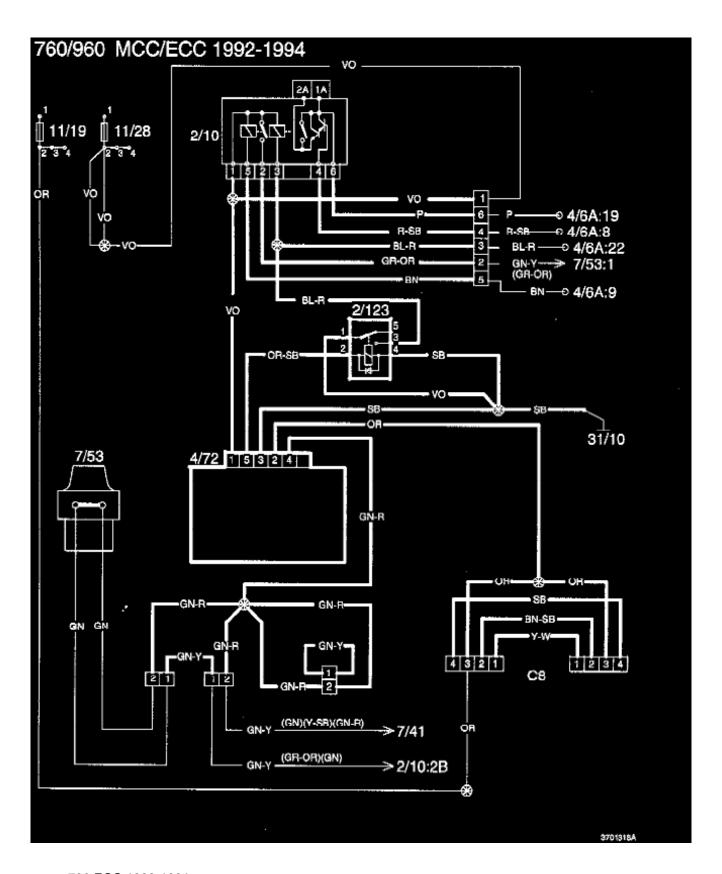
Relay Box: Application and ID

Fuse/Relay Identification and Location

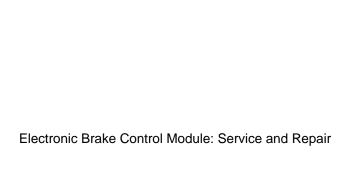
Electrical Distribution Unit

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17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The single search of the searc	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
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31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
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31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
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	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
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-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
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C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
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C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
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19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
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20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
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31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
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	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
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	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
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C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
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C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



REMOVAL

1. Check ignition is switched off 2. Undo battery negative lead. 3. Remove sound insulation underneath dashboard. 4. Undo control module cable tie and remove. 5. Remove connector from control module.

INSTALLATION

1. Fit connector to new control module. 2. Install control module, sound insulation, and battery negative lead.

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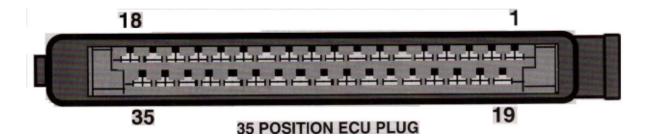
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1041	The single search of the searc	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
19/3	Speedometer	CSI	Connector, 8-pin Left wheel housing harness - Engine harness
19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
20/1	Ignition coil		Right wheel housing harness - Engine harness
20/2 20/3-6	Distributor Spark plugs	C62	Connector, at windshield wiper motor, 4-pin
20/9	Glowplugs	C63 C64	Connector, at left headlight, 3-pin Connector, at right headlight, 3-pin
20/15	Series resistance	C65	Connector, driver's door, 6-pin
20/18	Cabin fan resistor	C66	Connector, passenger's door, 6-pin
		Ç72	Connector, driver's door, 2-pin
31/1	Ground connector right front wing	C73	Connector, passenger's door, 2-pin
31/2 31/3	Ground connector left front wing	C74	Connector, rear door driver's side, 2-pin
2112	Ground connector body (ground connection, battery-body)	C75 C76	Connector, rear door passenger's side, 2-pin Connector, right A-post, 2-pin
31/4	Ground connector engine (ground connection,	C79	Connector, driver's door, 4-pin
	hattery-engine)	C84	Connector, driver's door, 2-pin
31/5	Ground connector for heated rear window (4-door)	C85	Connector, rear door driver's side, 2-pin
31/6	Ground connector left A-post	C86	Connector, passenger's door, 2-pin
31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
C12	Connector, at el. dist. unit, 2-pin		fan harness
C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		



Used by fuel injection ECU.

The A/C cut-off relay (located in front of the driver side strut tower) receives a signal from the throttle position sensor, when the throttle valve is in the full load position. The relay will then open and interrupt the A/C compressor operation. The A/C compressor will resume operation as soon as the throttle position sensor is no longer in the full load position. The fuel injection ECU monitors the A/C system via a connection to the A/C cut-off relay.

Volvo	LF	RF	. LR	RR	Rear	Sol. Val.
1987 - 1993 All Models	4(-), 6(+)	21(-), 11(+)	none	none	9(-),7(+)	3



- ** If there are only three valves listed it means there isn't a right rear valve and therefore no wire in Pin 19. If a wire exists in Pin 19 it will mean the system has four solenoid valves.
- *** Not all Bosch ABS 2 have a Solenoid valve on the right rear wheel. This does not mean that if a system has only three solenoid valves that it will only have three wheel speed sensors. These differences are sorted out in the chart.
- **** Not all Bosch ABS 2 have a wheel speed sensor on the right rear wheel. Systems that have only three wheel speed sensors have the rear sensor mounted in the differential housing. The easiest way to determine how the wheel speed sensors are wired is to inspect the 35 Pin plug and see what contacts are used for in system being tested.

Teves - ABS

35 Position ECU Plug

Connector View

System

Teves ABS

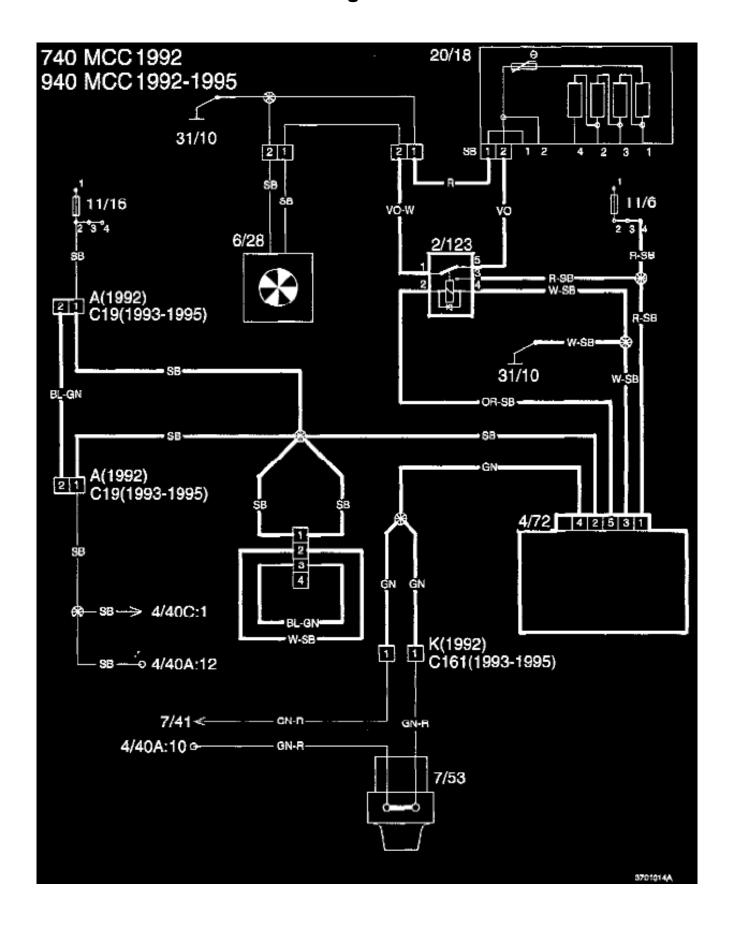
Location

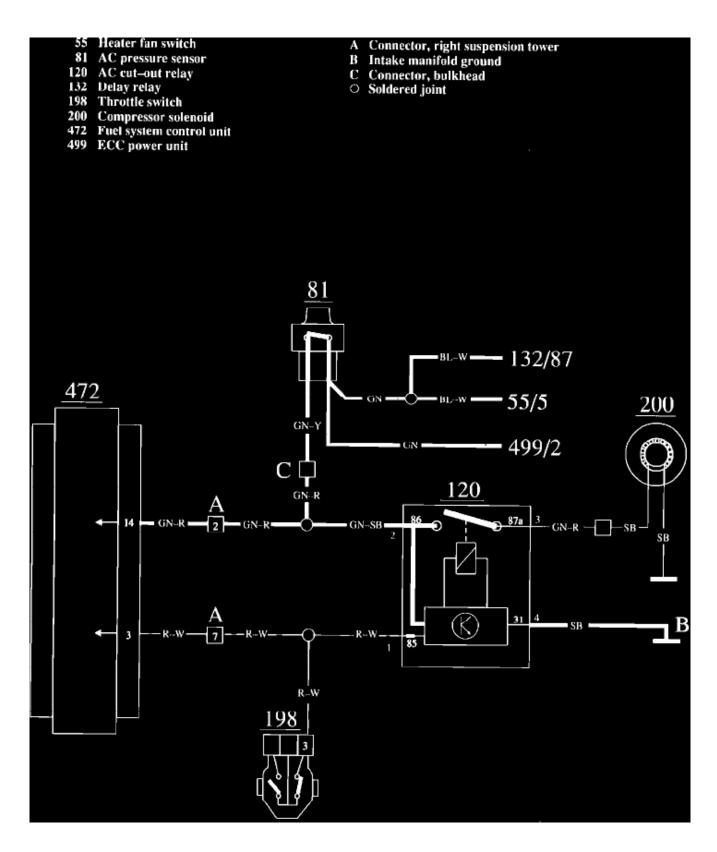
Terminal ID

1 - Ground 2 - Ignition Switch 3 - Main Power Relay 4 - Wheel Speed Sensor Right Rear (-) 5 - Wheel Speed Sensor Left Front (-) 6 - Wheel Speed Sensor Left Rear (-) 7 - Wheel Speed Sensor Right Front (-) 8 - Main Power Relay Control 9 - Fluid Level Switch

10 - Fluid Pressure Switch 11 - Solenoid Valve Ground 12 - Brake Light (NC Scorpio) 13 - NC 14 - Pump Relay Monitor (NC Ford, GM) 15 - Inlet Solenoid Valve (Right Front) 16 - Outlet Solenoid Valve (Left Front) 17 - Inlet Solenoid Valve (Rear) 18 - Main Hydraulic Solenoid Valve 19 - Ignition Switch (Scorpio only) 20 - Main Power Relay 21 - NC 22 - Wheel Speed Sensor Right Rear (+) 23 - Wheel Speed Sensor Lett Front (+) 24 - Wheel Speed Sensor Left Rear (+) 25 - Wheel Speed Sensor Right Front (+) 26 - NC 27 - ABS Warning Light 28 - NC 29 - NC 30 - NC 31 - NC

Page 270



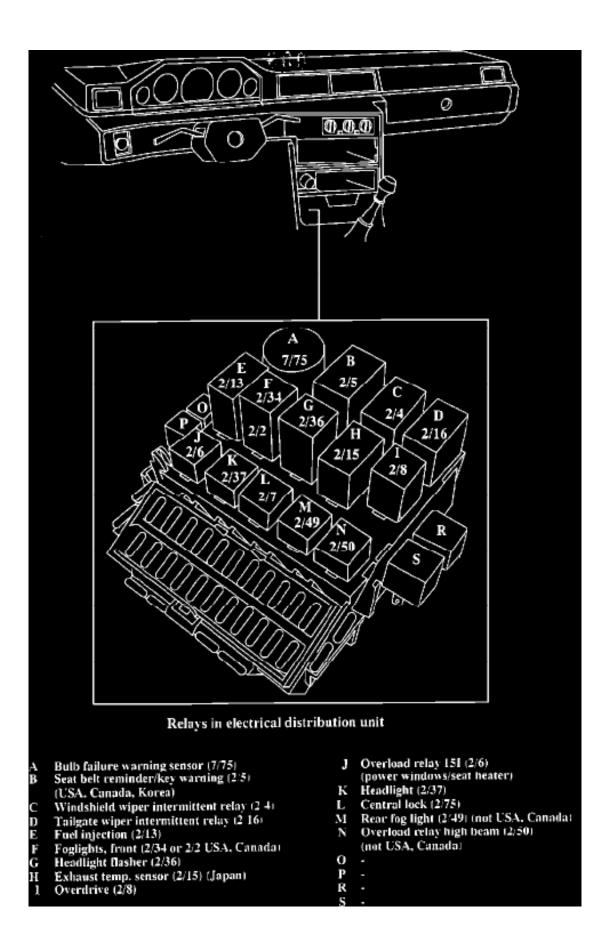


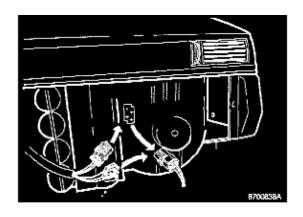
Insert the following text in the car's documentation.

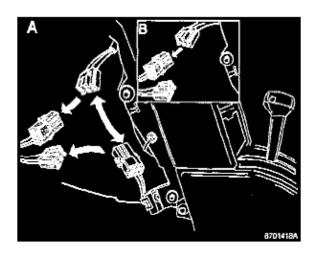
Copy this page and cut along line.

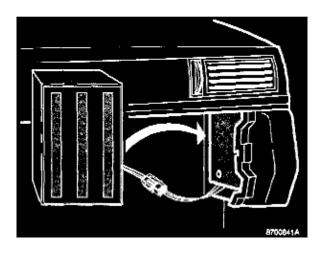
This car is equipped with a new blower fan control system which reduces residual condensation in the air-conditioning system to a minimum.

In normal operation the blower fan will start operating automatically about 50 minutes after the ignition has been switched off and then operate for a period of approximately 5 minutes.









Disconnect the yellow connector from the heater and attach the yellow connector from the cable harness.

- Install the detached connector in the other cable harness yellow connector.

D7 Connection of orange cable -

Route the orange cable with connector to driver's side of centre console.

- Locate the black 4-pin accessories connector. The connector can be connected to accessories (A) or unused (B).
- (A) If accessories are connected, separate connectors and connect them to both connectors on the new cable harness.
- (B) Connect the unused existing black 4-pin connector to one of the new harness connectors. Leave the other connector unused.

Installing control module from kit

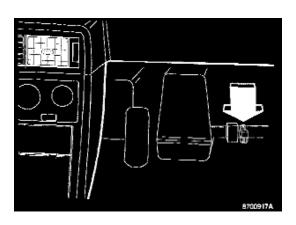
D8 Connecting and mounting control module in cars without SRS (Airbag) and knee bolster -

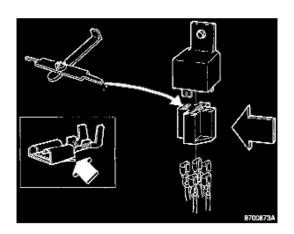
Connect control module and cable harness connectors.

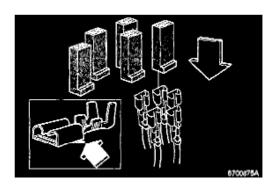
- Apply three sections of butyl tape to the control module.
- Install control module to dashboard side section with butyl tape.

7/17	Mass air flow (MAF) sensor	10/43	Right brake light
7/24	Knock sensor (KS)	10/44	Right parking light, rear
7/25	Engine speed (RPM) sensor	10/45	Right parking/tail light
7/26	Pressure sensor, EGR	10/46	Right rear foglight
7/28	Engine coolant temperature (ECT)	10/47	Bulb, right rear turn signal
	sensor, diesel	10/48	Right backup (reversing) light
7/30	Pressure sensor for charge pressure,	10/50	Left brake light
-	turbodiesel	10/51	Left parking light, rear
7/31	Sensor, ABS left front	10/52	Left parking/tail light
7/32	Sensor, ABS right front	10/53 10/54	Left rear foglight Bulb, left rear turn signal
7/33 7/34	Sensor, vehicle speed and ABS Thermoelement, three-way catalytic	10/55	Left backup (reversing) light
1134	converter (TWC)	10/64	Right high beam
7/37	Temperature sensor, EGR	10/65	Right extra main beam
7/38	Low-speed pressure sensor, engine	10/66	Right low beam
770	cooling fan	10/68	Left high beam
7/40	High-speed pressure sensor, engine	10/69	Left extra high beam
7,40	cooling fan	10/70	Left low beam
7/41	High-pressure, A/C	10/72	Ashtray lighting, front
7/43	Thermostat, driver's seat	10/74	Indicator light, exhaust gas temperature
7/44	Thermostat, passenger's seat	10/75	Indicator light, charge pressure, turbodiese
7/47	PTC-resistor, air pre-heating	10/76	Indicator light, diesel proheating
7/50	Pressure sensor, intake manifold	10/77	Indicator light, SRS (airbag)
7/52	Temperature sensor, intake air	10/78	Indicator light, seat belt
7/53	Low-pressure sensor, A/C	10/79	Indicator light, overdrive (auto.)/Gear
7/69	Ambient temperature sensor		selection indicator
7/75	Bulb failure sensor	10/80	Indicator light, overdrive (man.)
0.14	A distribution	10/82	Indicator light, ABS
8/1	Operating solenoid, overdrive	10/83	Indicator light, parking brake Indicator light, brake warning
8/2 8/3	Solenoids, ECC	10/85	Indicator light, high beam
8/5	Solenoid coupling, A/C Idle air control (IAC) valve	10/86	Indicator light, oil pressure
8/6-9	Injection valves	10/87	Indicator light, charge
8/13	Fuel valve, diesel	10/88	Indicator light, bulb failure
8/15	Hydraulic unit, ABS	10/89	Indicator light, rear foglights
8/17	Converter, EGR	10/90	Indicator light, washer fluid level
8/24	3-way valve, EGR	10/91	Service indicator
8/30	Steering wheel module, SRS (airbag)	10/92	Indicator light, trailer
8/33	Igniter for driver's side seat belt tensioner	10/93	Indicator light, malfunction indicator lamp
8/34	Igniter for passenger's side seat belt tensioner		(MIL)
8/36	Solenoid P-shift lock	10/94	Indicator light, right turn signal
8/42	Solenoid, pulsed secondary air injection (PAIR)	10/95	indicator light, left turn signal
		10/96	Instrument lighting
9/1	Cigar lighter	10/103	
9/2	Heated rear window		mirrors
9/3	Heater element, driver's seat backrest	10/104	
9/4	Heater element, passenger's seat backrest	10/112	Vanity mirror lighting
9/5	Heater element, driver's seat cushion	11/1-26	Form
9/6	Heater element, passenger's seat cushion	11/41	Fuse, combined instrument
10/5	Left front foglight	11,71	1 die, compiles monanten
10/5	Right front foglight	15/1	Positive terminal
10/11	Left from toging hight	15/2	30-rail in el. distribution unit
10/12	Right front parking light	15/9	Fuse-protected 15-rail in el.
10/13	Left front turn signal		distribution unit
10/14	Right front turn signal		
10/15	Left turn signal repeater (not USA/CDN)	16/1	Radio
10/16	Right turn signal repeater (not USA/CDN)	16/2	Amplifier
10/19	Extra brake light	16/3	Loudspeaker, right front door
10/20	Left number plate light	16/4	Loudspeaker, left front door
10/21	Right number plate light	16/5	Loudspeaker, right rear door
10/22		16/6	Loudspeaker, left rear door
10/24		16/7	Loudspeaker, instrument panel, right side
10/25	Roof light, load area (5-door)	16/8	Loudspeaker, instrument panel, left side Antenna
10/29		16/9	Antenna Horn 1
10/30	Door-open warning light, driver's door Door-open warning light, front passenger's side	16/10 16/11	Horn 1 Horn 2
10/31 10/32	Door-open warning light, front passenger's side Door-open warning light, rear driver's side	16/11	CD-changer
10/32		16/17	Loudspeaker, rear parcel shelf, left side
10/34	Warning light, rear seat belts	16/18	Loudspeaker, rear parcel shelf, right side
10/36			
10/38			
	The state of the s		
10/39	Switch lighting, seat heater		

Refer to "Body and Frame: Locks: Diagrams: Electrical".







A4 Removing existing connector from existing cable harness -

Disconnect 5-pin connector from blower relay (relay 131 in the Service Manual).

See Service Manual: Section 3 (39) Wiring diagrams 740 1990

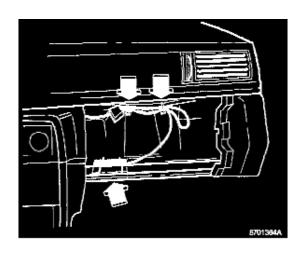
A5 Cable terminal, opening -

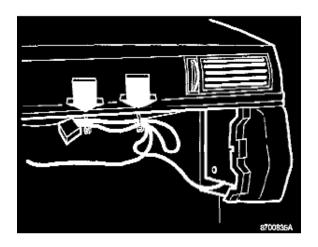
Detach the cables carefully from the connector's receptacle housing using tool 9814229-2, from repair kit 9814235.

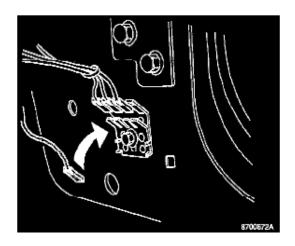
See Service Manual: Section 3(37), Wiring repairs and replacing cable terminals 850, 900

A6 Installation of 5 housing receptacles -

Straighten the locking tongues carefully and attach the 5 white housing receptacles from the kit.







D9 Connecting and mounting control module In cars with SRS (Airbag) and knee bolster -

Install control module on front of air hose under glove compartment with butyl tape and cable ties round duct and control module as illustrated.

- Attach cable harness to existing cable harness at side of SRS (Airbag) module with 2 cable ties, one as near to the connector as possible to avoid vibration on uneven road surfaces.

D10 Fastening cables in cars without SRS (Airbag) and knee bolster -

Attach cable harness and the relay in the foam rubber covered hose which passes over the glove compartment to the side defroster with 2 cable ties, one as close to the connector as possible to prevent vibration caused by uneven road surfaces.

D11 Connection to ground plate -

Connect the black-white cable included in the cable harness to the ground plate on the right side of the cowl.

The ground plate is located behind the fuel control module.

2/10	ECC Power unit		
2/22	Air conditioning (A/C) relay		
2/123	Airing cycle system relay		
2/124	Airing cycle system supply relay		
2/125	Airing cycle ground relay		
4/6	ECC Control module		
4/12	Motranic Control module		
4/31	Control module for blower fan motor		
4/40	MCC Climate control		
4/46	Engine control module (ECM)		
4/72	Airing cycle system control module		
6/28	Blower fan motor		
7/13	Air conditioning (A/C) High-Pressure Switch		
7/39	Air conditioning (A/C) Overload switch		
7/41	Air conditioning (A/C) High-Pressure Switch		
7/53	Air conditioning (A/C) Low-Pressure Switch		
8/2	ECC Solenoid valves		
8/3	Air conditioning (A/C) Solenoid valves		
11/1	Fuses		
11C/1-	Fuses in passenger compartment fusebox (960)		
20/18	Blower fan resistor		
31/6	Ground terminal, LH A-post		
31/10	Ground terminal right A-post		
55	Blower fan switch		
81	Air conditioning pressure switch		
131	Engine cooling fan (FC) relay		
132	Dalay relay		
165	Blower fan		
169	Blower fan resistor		
200	Control solenoid, A/C Compressor		
260	Control module ignition system		
485	MCC Climate control system		
495	ECC control module		
497	Solenoid valves		
499	ECC power unit		
A	Dashboard connectors		
	4-pin (740/940 MCC 1991)		
	2-pin (940 MCC 1992)		
	10-pin (780)		
A1/A	Multi-connector at left A-post		
A2/B	Multi-connector under dashboard at left A- post		
A11	Connector cable harness passenger compartment - cable harness climate unit, 6-pin		

17/1	Source and the state of the sta	-	S
17/11	Service socket for starter motor operation OBD diagnostic socket	C36 C37	Connector, under passenger's seat, 2-pin Connector, under driver's seat, 2-pin
17/14	Test socket for diagnosis of power seat	C39	Connector, ander driver's seat, 4-pin
		C40	Connector, at passenger's seat, 4-pin
18/1	Bridge connector 1	C41	Connector, under driver's seat, 6-pin
18/2	Bridge connector 2	C42	Connector, under driver's seat, 2-pin
1041	The minutes of the second of the second	C50	Connector, 8-pin
19/1 19/2	Engine coolant temperature (ECT) gauge Rev. counter (RPM gauge)	C51	Left wheel housing harness - Engine harness
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19/4	Clock	C54	Connector, 8-pin
19/5	Fuel gauge		Right wheel housing harness - Engine harness
		C55	Connector, 8-pin
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	hattery-engine)	C84	Connector, driver's door, 2-pin
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31/9 31/10	Ground connector at parking brake lever Ground connector right A-post	C87	Connector, rear door passenger's side, 2-pin
31/11	Ground connector left tail light	C89	Connector, at switch, 5 pin Connector, at surroof motor, 2-pin
31/12	Ground connector right tail light	C91	Connector, at el. dist. unit, 2-pin
31/13	Ground connector in load area	C92	Connector, behind steering wheel, 2-pin
31/16	Ground connector at windshield wiper motor	C93	Connector, left rear wheel housing, 4-pin
31/17	Ground connector at power sunroof motor	C98	Connector, at power antenna, 4-pin
31/26 31/28	Ground connector, generator Ground connector at overdrive solenoid	C100 C101	
31/31	Ground connection rail in el. distribution unit		Connector, right wheel housing, 2-pin Connector, at el. dist. unit, 2-pin
31/32	Ground connector on engine (power ground)		Connector, at firewall, 2-pin
31/33	Ground connector on engine (signal ground)	C104	
31/60	Ground connector on engine (diesel)	C105	
31/63	Ground connector at steering column bracket	C111	Connector, at thermoelement, 2-pin
31/64	Ground connector engine cooling fan	CIII	Connector, 2-pin
C1	Connector, 53-pin	(*121	Left wheel housing harness - Engine harness Coupling reel, steering wheel, SRS (airbag)
	Instrument panel harness - Door sill harness	C123	Connector to bridge connector 2, 2-pin
C2	Connector, 53-pin		Connector, 8-pin
	Instrument panel harness - Left wheel		Left wheel housing harness - Engine harness
C3	housing harness Connector, 53-pin	C137	Connector, 4-pin
-	Instrument panel harness - Right wheel	C139	Right wheel housing harness - Engine harness Connector, at gear selector, 4-pin
	housing harness	404 44	Connector, at A-post passenger's side, 24-pin
<u>ය</u> ය	Connector, left A-post, 2-pin	C144	Connector, at A-post driver's side, 24-pin
C6	Connector, at el. dist. unit, 4-pin		Connector, at B-post passenger's side, 11-pin
C7 C9	Connector, at steering column, 8-pin Connector, at centre console, 10-pin		Connector, at B-post driver's side, 11-pin
CII	Connector, at centre consoie, 10-ptn Connector, at el. dist. unit, 4-pin	C134	Connector, 3-pin or 1-pin Right wheel housing harness - engine cooling
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C13	Connector, at el. dist. unit, 4-pin	C155	Connector, left A-post, 8-pin
C14	Connector, at el. dist. unit, 2-pin	C156	Connector, at firewall, 3-pin
C15	Connector, left A-post, 4-pin	C157	
C19 C20	Connector, at instrument panel, 2-pin Connector, under gear lever carrier, 1-pin or 2-pin		Connector, at instrument panel, 6-pin
C21	Connector, left B-post, 4-pin	C161 C162	
C22	Connector, at tailgate, 6 ptil (5-door)	C163	
C23	Connector, at tailgate, 2-pin (5-door)		
C24	Connector, at extra brake light, 2-pin	D1	Connector, at instrument panel, 4-pin
C25	Connector, tvilgate, 2-pin, (5-door)	D2	Connector, alarm, 8-pin at steering column
C29	Connector, tailgate, 1-pin, (5-door) Connector, at driver's sest, 4-pin	D3 D4	Connector, alarm, 4-pin at steering column Connector, alarm, 2-pin in engine compartment,
C31	Connector, at passenger's seat, 2-pin	1/4	left front
C32	Connector, at driver's seat, 2-pin	D5	Connector, towing book, 10-pin (not USA/CDN)
C33	Connector, under driver's seat, 2-pin	D7	Connector, ambient temperature sensor, 6-pin
C34	Connector, under passenger's seat, 2-pin		

Locations

Seat Heater Relay: Locations

Refer to "Body and Frame : Seats : Locations : Components".

Diagram Information and Instructions

List of components 3/52 3/59 3/66 1/1Battery Switch for power antenna Beam width control Relay, front foglights USA/CDN Regulator DIM-DIP Intermittent relay, windshield wipers Idle sir control (IAC) control, EGR Thermostat setting Lock unit, tailgate 2/4 2/5 2/6 2/7 2/8 2/10 2/11 2/12 2/13 2/14 2/15 3/78 Relay, seat belt reminder/ignition key warning Bypass relay 151 Central locking relay Overheating protector, driver's seat 4/1 4/2 4/3 4/4 4/5 4/6 4/10 4/15 Overheating protector, passenger's seat Control module, cruise control Overdrive relay Power unit ECC Relay, engine cooling fan Rheostat Safety circuit, SRS (airbag) Control module, ECC Sensor module, SRS (airbag) Control module EZ-K (DI) system Power amplifier, EZ-K (DI) system Control module ABS Control module LH-jetronic 2.4 (MFI) system Control module Regina (MFI) system Power amplifier/ignition coil REX-I (DI) system Control module driver's sent A/C controls, MCC Control module REX-I (DI) system Heuter controls Relay, engine cooling fan Relay, radio interference suppression Relay, fuel injection (MFI) Relay, glowplug mechanism Relay, exhaust gas temperature sensor Intermittent tailgate wiper relay Transient protector, ABS 4/15 4/16 4/23 4/25 4/26 4/29 4/40 2/16 2/18 2/34 2/36 2/37 2/38 Relay, front foglights Headlight flasher Treadight relay Timer relay, exhaust gas recirculation (EGR) Relay, P-shift lock Relay, rear foglights Bypass relay, high beam 2/45 2/49 4/42 4/43 Heater controls 2/50 5/1 5/3 Combined instrument Ignition lock 3/1Ambient temperature sensor 3/2 Light switch 3/4 3/5 Cruise control operation Switch, turn signal/high-low beam Switch, hazard warning flashers 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 Windshield wiper motor Washer motor, front 3/6 3/7 Right headlight wiper motor Left headlight wiper motor Foglight switch Central locking motor, passenger's side front Central locking motor, passenger's side rear Central locking motor, driver's side rear Central locking motor, tailgate Switch, heated rear window Switch with timer relay, heated rear window/door mirrors Brake light switch Switch, tallgate wash/wipe Switch, tallgate wash/wipe Switch, tallgate wash/wipe Window lift motor driver's door Window lift motor driver's side rear 3/10 3/12 Window lift motor passenger's side front 3/13 6/11 6/12 6/13 Window lift motor passenger's side rear Power door mirror, driver's side 3/14 3/15 Power window switch, driver's door 6/14 6/15 6/16 6/17 6/18 Power door mirror, passenger's side Motor power sunroof for driver's door Power window switch, driver's door for driver's side rear door 3/16 Motor driver's seat backrest Motor up-down, front edge of driver's seat Motor up-down, rear edge of driver's seat Motor fore-aft, driver's seat Power window switch, driver's door for passenger's side front Power window switch, driver's door 3/17 3/18 6/19 for passenger's side rear Power window switch, driver's side rear 6/24 6/25 6/26 6/27 6/28 6/29 6/30 Vacuum, cruise control 3/20 3/21 3/22 Power window switch, passenger's side front Power window switch, passenger's side rear Switch for rear power window lifts Generator Servo motor, throttle control Cabin fan motor Engine cooling fan Washer motor, tailgate 3/23 3/24 3/25 3/26 3/27 Switch for power door mirror, driver's side Switch for power door mirror, passenger's side Switch for power door mirror, passes Switch for power sunroof Operating module, driver's seat Operating module, passenger's seat Switch for heated driver's seat Switch for heated passenger's seat Door switch, driver's door Door switch, passenger's did feet 6/31 6/32 6/33-1 6/33-2 Fuel pump Tailgate wiper motor Fuel level sensor/primer pump Fuel level sensor/pump 3/28 3/29 3/31 6/34 Power antenna 6/35 Parking heater 3/32 3/33 3/34 3/35 Door switch, passenger's side front Door switch, driver's side rear Door switch, passenger's side rear Door switch, tailgate (5-door estate) 6/36 Central locking motor, driver's side front 6/38 6/39 Actuator, left Actuator, right 7/4 7/3 7/6 7/7 3/36 Switch, glove compartment Broke fluid level sensor 3/37 3/38 3/39 Washer fluid ievel sensor

Qil pressure sensor

Thermostat. engine cooling fan

Solar sensor

7/9 7/10 7/11 7/12 7/14 7/15 7/16

On pressure sensor
Engine coolant temperature (ECT) sensor
Engine coolant temperature (ECT) sensor, ECC
Cabin temperature sensor
Ambient temperature sensor

Heated oxygen sensor (HO2S) Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

Switch, brake pedal

3/40 3/42-1 3/42-2

3/43 3/44 3/47 3/50

Switch, clutch pedal Start inhibit switch, automatic transmission Switch on transmission

Oil pressure sensor, kick-down valve

Switch in gear lever Seat belt lock, driver's seat

Parking brake switch Throttle position (TP) switch

Component Index And Identification

Insert the following text in the car's documentation.

Copy this page and cut along line.

This car is equipped with a new blower fan control system which reduces residual condensation in the air-conditioning system to a minimum.

In normal operation the blower fan will start operating automatically about 50 minutes after the ignition has been switched off and then operate for a period of approximately 5 minutes.