1992
BMW 525i, 525it, 535i, M5 (E34)
Electrical
Troubleshooting
Manual
Vehicles Produced 7/91 to 9/92

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SUPPRESSION FILTER, C900 ..... 6424.0-01
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TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TELEPHONE HANDSET, U4 ..... 6561.0-01
TELEPHONE INTERFACE US, A192 ..... 6561.0-01
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, B6235 ..... 1290.0-00
TEMPERATURE SWITCH, S36 ..... 6454.0-00
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.0-04
THIGH SUPPORT MOTOR, PASSENGER'S, M66 ..... 5200.0-04
THIGH SUPPORT POTENTIOMETER, R15 ..... 5200.0-06
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.0-04
THIGH SUPPORT SWITCH, PASSENGER'S, S94 ..... 5200.0-04
THROTTLE POSITION SENSOR, R6252 ..... 1210.7-05
THROTTLE POSITION SENSOR, S6250 ..... 1210.2-01
THROTTLE POSITION SENSOR, S6251 ..... 1210.4-07
THROTTLE POSITION SENSOR, S6251 ..... 2460.0-02
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.0-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 6300.0-03
TRANSMISSION RANGE SELECTOR LIGHT, E9500 ..... 6300.0-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.0-04
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-01
TRUNK LID LIGHT, E33 ..... 6320.0-02
TRUNK LID SWITCH, S61 ..... 6320.0-01
TRUNK LIGHT, LEFT, H90 ..... 6320.0-01
TRUNK LIGHT, RIGHT, H91 ..... 6320.0-01
TRUNK LOCK MOTOR, M17 ..... 5126.0-04
TURN/HAZARD LIGHTS 6313.0-00
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
UNCOUPLING DIODE (KL61), V9501 ..... 1230.0-00
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UNLOADER RELAY, TERMINAL 61, K61 ..... 1230.0-00
UNLOADER RELAY, TERMINAL R, K3 ..... 0670.2-05
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VOLUME AIR FLOW SENSOR, B6233 ..... 1210.1-09
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.2-09
WASHER FLUID LEVEL SWITCH, S64 ..... 6200.0-12
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
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WASHER PUMP RELAY, K5 ..... 6160.0-02
WATER VALVE ASSEMBLY, Y4 ..... 6450.5-01
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WIDE OPEN THROTTLE CUT-OFF RELAY, K86 ..... 6450.5-08
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WINDOW LIMIT SWITCH, LEFT REAR, S45 ..... 5133.0-03
WINDOW LIMIT SWITCH, PASSENGER'S, S44 ..... 5133.0-01
WINDOW LIMIT SWITCH, RIGHT REAR, S46 ..... 5133.0-03
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.0-04
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.0-04
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.0-05
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.0-05
WINDOW MOTOR, RELAY, K90 ..... 5126.0-06
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.0-01
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WIPER/WASHER INTERVAL CONTROL MODULE, REAR, A36 .. 6162.0-00
WIPER/WASHER SWITCH, S5 ..... 6160.0-00
ZKE CENTRAL LOCKING (ZV) 5126.0-00
ZKE DOOR LOCK HEATING (TSH) 5120.0-00
ZKE HEADLIGHT WASHER (SRA) 6167.0-00
ZKE INTERIOR LIGHTS CONTROL (IB) 6330.0-00
ZKE POWER WINDOWS (FH) 5133.0-00
ZKE SUNROOF (SHD) 5410.0-00

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead which is only a few cm long. To enhance the clarity of the schematics, all connectors and splices between fuses and components as well as between grounds and components have been omitted. If this information should be required, it may be referenced in cells **0670.3 Fuse Details** and **0670.4 Ground Distribution**.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the locations of the connectors and components which are difficult to locate are shown in photographs. In cell **8500.0 Connector Views** diagrams of all connectors with more than three pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.

General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse 1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell 0670.3 Fuse Details at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell 6100.0 Central Body Electronics (ZKE). An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell 0670.4 Ground Distribution at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS

BATTERY

FUSE DETAILS

FUSIBLE LINK

CIRCUIT BREAKER

THERMO SWITCH

SOLENOID

SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

HEATING ELEMENT

LOUDSPEAKER OR HORN

LIGHT

PERMANENT MAGNET MOTOR
ONE SPEED

PERMANENT MAGNET MOTOR
TWO SPEEDS

VARIABLE RESISTANCE
SENSOR
VARIABLE CONTACT IS
MOVED BY AN EXTERNAL
FORCE

VARIABLE RESISTOR
RESISTANCE IS CHANGED
BY TEMPERATURE OR
PRESSURE

N
S
INDUCTIVE SENSOR

DIODE
CURRENT CAN FLOW ONLY
IN DIRECTION OF ARROW

ZENER DIODE
TO REGULATE VOLTAGE

LIGHT EMITTING DIODE

15
4
1
IGNITION COIL

CONTROL/POWER ELECTRONICS

RADIO

TRANSISTORIZED SWITCH
31

OXYGEN SENSOR

N
S
VEHICLE SPEED SENSOR

SYMBOLS

ENTIRE COMPONENT SHOWN

PART OF COMPONENT SHOWN

COMPONENT WITH SCREW TERMINALS

CONNECTOR ATTACHED TO COMPONENT

CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)

ONE POLE, TWO POSITION SWITCH

SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR

WIRE ATTACHED TO METAL PART OF CAR (GROUNDED)

GROUND NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

SYMBOLS

CONTACT RELAY

RELAY WITH RESISTOR ACROSS WINDING

CONTACT RELAY WITH TWO OUTPUTS

CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)

TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

SYMBOLS

HOT IN ACCY, RUN AND START

THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18

CIRCUIT REFERENCE– A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT

THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497

CURRENT PATH IS CONTINUED AS LABELED

ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES

SYMBOLS

BLOCK DIAGRAM

POWER DISTRIBUTION CHART ZKE

FRONT POWER DISTRIBUTION BOX

POWER DISTRIBUTION CHART

REAR POWER DISTRIBUTION BOX WITH ZKE

POWER DISTRIBUTION CHART

AUXILIARY RELAY BOX

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																	●						●						
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																	●						●						
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																							●						
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																	●						●						
1230.0	CHARGING SYSTEM																	●											●	
1240.0	START																	●												
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)	●																●			●									
1290.0	E-BOX FAN																	●											●	
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)	●																●												
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)	●																●												
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT																													
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																												●	
3450.0	SLIP CONTROL (ABS)	●																●												
3450.1	SLIP CONTROL (ABS/ASC)	●																●												●
5116.0	POWER MIRRORS					●							●																	
5120.0	ZKE DOOR LOCK HEATING (TSH)																	●												
5126.0	ZKE CENTRAL LOCKING (ZV)																													
5133.0	ZKE POWER WINDOWS (FH)																	●												
5200.0	POWER SEATS												●																	

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)												●				●		●											
5203.0	HEATED SEATS																●													
5410.0	ZKE SUNROOF (SHD)																	●												
5410.2	DOUBLE PANEL POWER SUNROOF (ZKE)																													
6100.0	CENTRAL BODY ELECTRONICS (ZKE)			●	●	●												●							●					
6133.0	HORN									●																				
6160.0	ZKE WIPER/WASHER CONTROL	●																							●					
6162.0	REAR WINDOW WIPER/WASHER CONTROL																													
6167.0	ZKE HEADLIGHT WASHER (SRA)			●	●	●												●					●							
6169.0	WINDSHIELD WASHER JET HEATERS												●																	
6200.0	INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)	●																●			●									●
6213.2	MULTI-FUNCTION CLOCK	●																			●									
6300.0	LIGHT SWITCH DETAILS		●	●	●	●																								
6301.0	LAMP MONITOR (LKM)	●	●	●	●	●		●			●	●		●	●	●														
6312.0	HEADLIGHTS/ FOG LIGHTS		●	●		●		●			●	●		●	●															
6313.0	TURN/HAZARD LIGHTS		●	●			●							●	●															
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS				●	●										●					●									
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS					●										●						●								
6322.0	BACK UP LIGHTS												●																	

BMW 5

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
6325.0	BRAKE LIGHTS	●														●														
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)					●													●		●	●								
6332.0	INTERIOR ACCESSORIES					●													●			●					●			
6350.0	CRASH CONTROL MODULE		●				●				●	●																		
6412.19	PARK VENTILATION WITH IHKR/F3																			●	●									
6424.0	REAR WINDOW DEFOGGER																													
6450.5	INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)									●										●	●							●		●
6454.0	AUXILIARY FAN									●																●				●
6510.1	RADIO/HIFI																		●											
6510.2	RADIO PROVISIONS																		●											
6561.0	CELLULAR TELEPHONE (PROVISIONS)									●									●											
6571.0	CRUISE CONTROL (TEMPOMAT)	●																●												
6575.2	ANTI-THEFT SYSTEM (ALPINE)																		●			●								
6581.0	ON-BOARD COMPUTER (BCIV)	●																●			●									

FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																												
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49									
		7.5A	7.5A			20A		30A	20A				30A	30A	30A	30A		30A	30A											
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																													
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																													
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																													
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																													
1230.0	CHARGING SYSTEM																													
1240.0	START																													
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)																													
1290.0	E-BOX FAN																													
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)																													
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																													
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT					●																								
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																													
3450.0	SLIP CONTROL (ABS)																													
3450.1	SLIP CONTROL (ABS/ASC)																													
5116.0	POWER MIRRORS																													
5120.0	ZKE DOOR LOCK HEATING (TSH)	●																												
5126.0	ZKE CENTRAL LOCKING (ZV)	●	●						●										●											
5133.0	ZKE POWER WINDOWS (FH)	●	●																●											
5200.0	POWER SEATS													●	●															

FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																												
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49									
		7.5A	7.5A			20A		30A	20A				30A	30A	30A	30A		30A	30A											
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)																													
5203.0	HEATED SEATS																													
5410.0	ZKE SUNROOF (SHD)	●	●																●											
5410.2	DOUBLE PANEL POWER SUNROOF (ZKE)	●																												
6100.0	CENTRAL BODY ELECTRONICS (ZKE)	●																	●											
6133.0	HORN																													
6160.0	ZKE WIPER/WASHER CONTROL															●														
6162.0	REAR WINDOW WIPER/WASHER CONTROL								●																					
6167.0	ZKE HEADLIGHT WASHER (SRA)																													
6169.0	WINDSHIELD WASHER JET HEATERS																													
6200.0	INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)																													
6213.2	MULTI-FUNCTION CLOCK																													
6300.0	LIGHT SWITCH DETAILS																													
6301.0	LAMP MONITOR (LKM)																													
6312.0	HEADLIGHTS/ FOG LIGHTS																													
6313.0	TURN/HAZARD LIGHTS																													
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																													

FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																												
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49									
		7.5A	7.5A			20A		30A	20A				30A	30A	30A	30A		30A	30A											
6325.0	BRAKE LIGHTS																													
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)	●														●														
6332.0	INTERIOR ACCESSORIES																													
6350.0	CRASH CONTROL MODULE																													
6412.19	PARK VENTILATION WITH IHKR/F3																													
6424.0	REAR WINDOW DEFOGGER																	●												
6450.5	INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)																													
6454.0	AUXILIARY FAN																													
6510.1	RADIO/HIFI							●																						
6510.2	RADIO PROVISIONS							●																						
6561.0	CELLULAR TELEPHONE (PROVISIONS)		●																											
6571.0	CRUISE CONTROL (TEMPOMAT)																													
6575.2	ANTI-THEFT SYSTEM (ALPINE)																		●											
6581.0	ON-BOARD COMPUTER (BCIV)																													

POWER DISTRIBUTION

525i, 535i

POWER DISTRIBUTION

M5

POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX

X203
1.5 GN
2.5 GN
1.5 GN
1.5 GN
1.5 GN
1.5 GN
1.5 VI
1.5 VI
15
15
15
15
15
15
R
R
F29
7.5A
F2
7.5A
F3
7.5A
F49
NOT
USED
F28
15A
F17
7.5A
F1
15A
F24
10A
P90
FRONT POWER
DISTRIBUTION
BOX
1.5 GN/BL/GE
.75 GN/BL
.75 GN/GE
.75 GN/GE
1.5 GN/WS
1.5 GN/RT
1.5 VI/GE
1.5 VI/SW
FUSE DETAILS
0670.3

POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX

POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX

POWER DISTRIBUTION

REAR POWER DISTRIBUTION BOX

FUSE DETAILS

FUSES 1 AND 6

FUSE DETAILS

FUSES 2, 3, 4, AND 5

FUSE DETAILS

CDN

FUSES 2, 3, 4, AND 5

FUSE DETAILS

FUSES 7, 9, 10, AND 11

FUSE DETAILS

FUSE 12

FUSE DETAILS

FUSES 13, 14, AND 15

FUSE DETAILS

FUSE 16

FUSE DETAILS

FUSE 17

FUSE DETAILS

FUSE 18

FUSE DETAILS

FUSES 19 AND 20

FUSE DETAILS

FUSE 20

FUSE DETAILS

FUSE 21

FUSE DETAILS

FUSES 22, 23, AND 24

FUSE DETAILS

FUSES 25, 26, 27, AND 28

FUSE DETAILS

FUSE 29

FUSE DETAILS

FUSES 30 AND 31

FUSE DETAILS

FUSES 32, 34, 36, 37, AND 40

FUSE DETAILS

FUSES 42, 43, 44, AND 46

FUSE DETAILS

FUSES 47, 48, AND 49

GROUND DISTRIBUTION

GROUND X165

GROUND DISTRIBUTION

GROUND X166

GROUND DISTRIBUTION

GROUNDS X167 AND X179

GROUND DISTRIBUTION

GROUND X175

GROUND DISTRIBUTION

GROUND X175

GROUND DISTRIBUTION

GROUND X490

GROUND DISTRIBUTION

GROUND X490

GROUND DISTRIBUTION

GROUND X491

GROUND DISTRIBUTION

GROUND X491

GROUND DISTRIBUTION

GROUND X491

GROUND DISTRIBUTION

GROUND X491

GROUND DISTRIBUTION

GROUND X491

GROUND DISTRIBUTION

GROUND X492

GROUND DISTRIBUTION

GROUND X493

GROUND DISTRIBUTION

GROUND X493

GROUND DISTRIBUTION

GROUND X493

GROUND DISTRIBUTION

525 it

GROUND X493

GROUND DISTRIBUTION

GROUND X495

GROUND DISTRIBUTION

GROUND X495

GROUND DISTRIBUTION

GROUND X496

GROUND DISTRIBUTION

GROUND X496

GROUND DISTRIBUTION

GROUND X818

GROUND DISTRIBUTION

GROUND X1160

GROUND DISTRIBUTION

535i

GROUND X6450 WITHOUT EML

GROUND X6450 WITHOUT EML, WITH EGS

GROUND DISTRIBUTION

535i

GROUND X6450 WITH EML

GROUND X6450

GROUND X6450

GROUND X6451 WITHOUT EML

GROUND DISTRIBUTION

535i

GROUND X6451 WITH EML

GROUND DISTRIBUTION

GROUND X6451

GROUND DISTRIBUTION

525i

GROUND X6454

GROUND DISTRIBUTION

525i

GROUND X6454

GROUND DISTRIBUTION

525i

GROUND X6456

GROUND X8508

DATA LINK
BLOCK DIAGRAM

DATA LINK

TXD, PIN 20

DATA LINK

TXD, PIN 20

DATA LINK

RXD, PIN 15

DATA LINK

RXD, PIN 15

DATA LINK

DATA LINK CONNECTOR PIN 19

DATA LINK

DATA LINK CONNECTOR PIN 1

DATA LINK

DATA LINK PINS 12 AND 14

DATA LINK

DATA LINK CONNECTOR PINS 7, 11, AND 16

DATA LINK

DATA LINK CONNECTOR PINS 4 AND 18

DATA LINK CONNECTOR (X6002)

PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION		WIRE COLOR
1	1	IGNITION COIL		SW
2	–	NOT OCCUPIED		
3	–	NOT OCCUPIED		
4	FT	VOLTAGE: TEMPERATURE SENSOR	M5	BR/VI
5	–	NOT OCCUPIED		
6	–	NOT OCCUPIED		
7	SI	SERVICE INDICATOR REMINDER		WS/GN
8	–	NOT OCCUPIED		
9	–	NOT OCCUPIED		
10	–	NOT OCCUPIED		
11	50	VOLTAGE: IGNITION SWITCH IN START		SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR		BL
13	–	NOT OCCUPIED		
14	30	VOLTAGE: HOT AT ALL TIMES		RT
15	RXD	RECEIVE		WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN		GN/WS
17	–	NOT OCCUPIED		
18	PGSP	ENGINE CONTROL (DME) PROGRAMMING LINE		GN/BL
19	31	GROUND		BR
20	TXD	TRANSMIT		WS/VI

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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measered when crankshaft rotating
4		Not used				
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air flow meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground, oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12	A	Voltage supply, air flow meter	Air flow meter	- 5 V		
13	E	RxD diagnostic data line	Diagnostic connector	> 10 V		When cover of diagnostic connector closed

DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and sensor shields	Ground point	Ground		
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24	M	Ground, remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25		Not used				
26	M	Ground, air flow meter	Air flow meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature

DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29		Not used				
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	ti Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	Oscilloscope
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40		Not used				
41	E	Auxiliary fan signal	EML control unit	12 V	ON/OFF	
42	E	Drive range P/N	Transmission selector lever switch	Ground	ON	When position P/N
43		Not used				
44	E	Intake air temperature	Air quantity meter	0...5 V	°C	Temperature dependent

DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
45	E	Engine coolant temp.	Engine coolant temp. sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotating)
48	E	Inductive pulse generator (connection B)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50	E	Torque cutout signal	ABS/ASC control unit			
51	E	Ignition timing intervention	Electronic transmission control unit	Ground	ON	Only active during gear shift
52	E	Idle signal	EML control unit	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	EML control unit	Ground	ON	At full load (kick-down)
54	E	Torque converter clutch WK	Electronic transmission control unit EGS	Ground	ON (with engine running)	When WK engaged, see status monitoring
55	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

FUEL INJECTION VALVES

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

EGS 4HP-22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

A6000
ENGINE CONTROL
MODULE (DME)
5V (15)
5V
5V (15)
31
31
31
28
10
31
8
48
47
X6000
.5 GN/VI
.5 SW
.5 GE
.5 GE
.5 SW
.5 GE
.5 SW
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
W6201
CYLINDER
IDENTIFICATION
SENSOR SHIELD
GROUND
DISTRIBUTION
0670.4
X6450
W6202
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
4
2
1
X6200
3
2
1
X6201
3
2
1
X6202
B6200
HEATED
OXYGEN SENSOR
W6201
CYLINDER
IDENTIFICATION
SENSOR SHIELD
W6202
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
3
X6200
B6201
CYLINDER
IDENTIFICATION
SENSOR
B6202
CRANKSHAFT
POSITION/RPM
SENSOR
N S
N S
GROUND
DISTRIBUTION
0670.4
X6451

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measered when crankshaft rotating
4	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air flow meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12	A	Voltage supply, air flow meter	Air flow meter	~ 5 V		
13	E	RxD diagnostic data line	Diagnostic socket	> 10 V		When cover of diagnostic connector closed

DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground, injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and shielding the sensors	Ground point	Ground		
20		Not used				
21		Not used				
22	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See component activation
23		Not used				
24	M	Ground, remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25		Not used				
26	M	Ground, air flow meter	Air flow meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature

DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29	E	Vehicle speed sensor	Instrument cluster	Square wave signal	km/h	
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	ti Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40	E	A/C compressor signal	Pressure switch, compressor relay		ON/OFF	
41	E	Auxiliary fan signal	IHKR control unit	12 V	ON/OFF	
42	E	Drive range P/N	Transmission selector lever switch	Ground	ON	When position P/N
43		Not used				

DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
44	E	Intake air temperature	Air flow meter	0...5 V	°C	Temperature dependent
45	E	Engine coolant temperature	Engine coolant temperature sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotation)
48	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50		Not used				
51	E	Ignition timing intervention	Electronic transmission control unit (EGS)	Ground	ON	Only active during gear shift
52	E	Idle signal	Throttle switch	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	Throttle switch	Ground	ON	At full load (kick-down)
54	E	Torque converter clutch WK	Electronic transmission control unit (EGS)	Ground	ON (with engine running)	When WK engaged, see status monitoring
55	E/A	TxD diagnostic data line	Diagnostic socket	Ground		When cover of diagnostic connector closed

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

FUEL INJECTION VALVES

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

EGS 4HP 22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measured when crankshaft rotating
4	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air mass meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground, oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12		Not used				
13	E	RxD diagnostic data line	Diagnostic socket	> 10 V		When cover of diagnostic connector closed

DIGITAL ENGINE ELECTRONICS (DME 1.2, 6-CYLINDER S38)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground, injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and sensor shields	Ground point	Ground		
20		Not used				
21		Not used				
22	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See component activation
23	A	Air pump relay signal	Air pump relay	Ground		Ground => Air pump on
24	M	Ground remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25	A	Preheating	Air mass meter	Voltage plus for - 0,5 second		Signal stops 4 seconds after engine stops
26	M	Ground air flow meter	Air mass meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		

DIGITAL ENGINE ELECTRONICS (DME 1.2, 6-CYLINDER S38)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature
29	E	Vehicle speed sensor	Instrument cluster	Square wave signal	km/h	
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	ti Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	Oscilloscope
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40	E	A/C compressor signal	Pressure switch, compressor relay		ON/OFF	
41	E	Auxiliary fan signal	Full load cutoff relay	12 V	ON/OFF	

DIGITAL ENGINE ELECTRONICS (DME 1.2, 6-CYLINDER S38)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
42		Not used				
43	E	Idle CO potentiometer	Air mass meter	0...5 V	Voltage value	
44	E	Intake air temperature	Intake air temperature sensor	0...5 V	°C	Temperature dependent
45	E	Coolant temperature	Coolant temperature sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator, engine speed/crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotation)
48	E	Inductive pulse generator (connection B)	Pulse generator, engine speed/crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50		Not used				
51		Not used				
52	E	Idle signal	Throttle switch	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	Throttle switch	Ground	ON	At full load (kick-down)
54	E	Coding signal	Fuel coding connector	Ground		
55	E/A	TxD diagnostic data line	Diagnostic socket	Ground		When cover of diagnostic connector closed

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

M5

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

M5

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control unit torque converter clutch	Ground with super imposed engine speed signal	ON	Can only be measured with crankshaft rotating (the EKP relay does not switch if the TR signal is not applied)
2	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See status monitoring
3	A	Injection valve cyl. 1	Injection valve (EV) 1	Pulsed ground	Injection time ti	Ground => injector valve open, see component activation
4	A	Injection valve cyl. 3	Injection valve (EV) 3	Pulsed ground	Injection time ti	Ground => injector valve open, see component activation
5	A	Injection valve cyl. 2	Injection valve (EV) 2	Pulsed ground	Injection time ti	Ground => injector valve open, see component activation
6	M	Ground, EV output stages	Ground point	Ground		
7		Not used				
8	A	Defect lamp (US only)	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
9		Not used				

DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
10		Not used				
11	A	Throttle valve position	EGS control unit	Pulsewidth modulated	Voltage value	Depends on throttle valve position, oscilloscope
12	E	Throttle valve potentiometer	Throttle valve potentiometer	0.4–4.2V	Voltage value	Depends on throttle valve position
13	A	Preheating	Air mass meter	Voltage increase for approx. 0.5 sec		Signal stops 4 sec after engine stop
14	M	Ground, air mass meter	Air mass meter	Ground		
15		Not used				
16	E	Cylinder reference signal (ignition)	Cylinder reference sensor (connection B)	A/C voltage	Oscilloscope	One signal per camshaft revolution
17	A	ti measuring signal (KVA signal, fuel consumption signal)	Instrument cluster	Square wave signal	Multimeter function Pulse duration	Oscilloscope
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
25	A	Ignition terminal 1	Ignition coil 2	Primary signal	Oscilloscope	Engine test, test step 05
25	A	Ignition terminal 1	Ignition coil 3	Primary signal	Oscilloscope	Engine test, test step 05
25	A	Ignition terminal 1	Ignition coil 1	Primary signal	Oscilloscope	Engine test, test step 05
26	E	Steady voltage, terminal 30	B + terminal point	> 10 V		Diagnosis not possible if not fitted

DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
27	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted – connect jumper at relay terminal 30 and 87
28	M	Ground for electronics and shielding the sensors	Ground point	Ground		
29	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
30		Not used				
31	A	Injection valve cyl. 5	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
32	A	Injection valve cyl. 6	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
33	A	Injection valve cyl. 4	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
34	M	Ground, remaining output stages (except for ignition and EV)	Ground point	Ground		
35		Not used				
36	A	Fuel evaporation control valve	TE valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
37	A	Oxygen sensor heating	Oxygen sensor relay	Ground	ON	Ground = > Heating activated
38		Not used				
39		Not used				
40		Not used				
41	E	Signal air mass meter	Hot wire air mass meter	0...5 V	Load signal in ms	See status monitoring

DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
42		Not used				
43	M	Ground for sensors	Temperature sensor	Ground		
44	E	Cylinder reference signal (ignition)	Cylinder reference sensor (connection A)	A/C voltage	Oscilloscope	One signal per camshaft revolution
45		Not used				
46		Not used				
47		Not used				
48	A	A/C compressor control	Compressor control relay	Ground		Ground => Compressor OFF
49		Not used				
50	A	Ignition terminal 1	Ignition coil 4	Primary signal	Oscilloscope	Engine test, test step 05
51	A	Ignition terminal 1	Ignition coil 6	Primary signal	Oscilloscope	Engine test, test step 05
52	A	Ignition terminal 1	Ignition coil 5	Primary signal	Oscilloscope	Engine test, test step 05
53		Not used				
54	E	> 10 V from DME main relay	Main relay terminal 87	> 10 V	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied – connect jumper terminal 30 and 87 on relay
55	M	Ground, ignition	Ground point	Ground		
56	E	Ignition terminal 15	Ignition switch	> 10 V		
57		Not used				
58		Not used				
59	A	Component voltage	Throttle potentiometer	5 V		
60	E	Programming voltage	Diagnostic connector			Only activated for control unit programming

DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
61		Not used				
62		Not used				
63		Not used				
64	E	Ignition timing intervention	EGS control unit	Ground	ON	Only active during gearshift
65	E	Drive range P/N switch	Transmission selector lever	Ground	ON	When position P/N
66		Not used				
67	E	Inductive pulse generator (connection B)	Pulse generator Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
68	E	Inductive pulse generator (connection A)	Pulse generator Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
69		Not used				
70	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with engine running at operating temperature
71	M	Ground oxygen sensor	Oxygen sensor	Ground		
72		Not used				
73	E	Road speed signal	Instrument cluster	Square wave signal	km/h	Status monitoring
74		Engine speed signal TD	Instrument cluster	Square wave signal		One signal per ignition
75		Not used				
76		Not used				
77	E	Intake air temperature	Intake air temperature sensor	0...5 V	°C	Temperature-dependent

DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
78	E	Engine temperature	Engine temperature sensor	0...5 V	°C	Temperature-dependent
79		Not used				
80		Not used				
81	E	Drive-away protection	On-board computer	> 10 V		
82		Not used				
83		Not used				
84		Not used				
85	E	Pressure signal	Pressure switch			
86	E	Compressor signal	IHKR control unit			
87	E	RxD diagnostic data line	Diagnostic connector	> 10 V		When cover of diagnostic connector closed
88	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

POWER

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

4 GN
X6831
1 GN
X6151
T6151
CYL. 1 IGNITION
COIL
X6152
T6152
CYL. 2 IGNITION
COIL
X6153
T6153
CYL. 3 IGNITION
COIL
X6154
T6154
CYL. 4 IGNITION
COIL
X6155
T6155
CYL. 5 IGNITION
COIL
X6156
T6156
CYL. 6 IGNITION
COIL
1 SW
1 BR
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
X6901
X6900
X6902
X6903
X6904
X6905
X6906
X6456
X6458
GROUND
DISTRIBUTION
0670.4
X6454
W6000
SHIELD UP TO
10mm BEFORE
ENGINE CONTROL
MODULE (DME)
X6000
A6000
ENGINE CONTROL
MODULE (DME)

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

CHARGING SYSTEM

START

EGS 4HP 22
EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

START

525i, 535i WITHOUT EGS
1240.0-00
525i, 535i WITH EGS
M5
.5 BR/SW
2.5 SW/GE
X55
B900 JUMPER PLUG
K1 STARTER RELAY
GROUND DISTRIBUTION 0670.4
X165
X20
D100 DATA LINK CONNECTOR
X6610
X6002
X6510
X6511
X6512
M6510 STARTER
16 RT
.75 SW/GN
525i
X6420
X6509
G10 140A GENERATOR
X619
G1 BATTERY
POWER DISTRIBUTION 0670.2
X5
X278
.5 SW/GN
X35
X18156
A87w INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)
X15
X501
N4 ON-BOARD COMPUTER
X14
X255
A1 GENERAL MODULE

11/92 1270 0 1992
11/92 1270 0 1992

ELECTRONIC THROTTLE CONTROL (EML, 6-CYLINDER)

Pin Assignments

X6004

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A/E	Drive throttle actuator	EML actuator	Square wave signal		
2		Not used				
3	E	Vehicle speed signal	Instrument cluster	Square wave signal		
4	A	Idle signal	DME control unit	approx. 0 V		
5	A/E	Engine coolant temperature	Water temp sensor (EML)	approx. 0...5 V		
6	E/A	Diagnosis	Diagnostic connector TxD			
7	E	Kick-down signal	Pedal position sensor	approx. 5 V		
8	E	A/C system signal	IHKR/F3 control unit	approx. 12 V (ON)		
9	E	Diagnosis	Diagnostic connector RxD			
10	A/E	Drive throttle actuator	EML actuator	Square wave signal		
11	A	Electronic ground	Component ground	Ground		
12	A	EML-warning lamp	Instrument cluster			
13	A	Throttle position signal	ASC/EGS	Square wave signal		
14	E	Output ground	Ground point	Ground		
15	E	Throttle position	Pedal position sensor	0.4...4 V		
16	E	Actuator position sensor	EML actuator	1 V...4.6 V		
17	A	5 V (not short circuit proof)	Pedal position sensor/ EML actuator	5 V		

ELECTRONIC THROTTLE CONTROL (EML, 6-CYLINDER)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
18	E	P and N identifier (EGS)	Transmission range switch	approx. 12 V (ON) approx. 0 V (OFF)		
19	E/A	Cruise control switch signal	Cruise control switch	0 V...5 V		
20	E	Brake pedal signal	Brake light switch	approx. 12 V (ON) approx. 0 V (OFF)		
21	E	PWG 9° switch	Pedal position sensor	approx. 5 V (ON)		
22	E	Throttle 17° switch	EML actuator	approx. 5 V (ON)		
23	A	Electronic ground	Component ground	Ground		
24	E	Injection signal ti	DME control unit	Square wave signal		
25	E	Terminal 30 +	DME – relay	approx. on-board voltage		
26	E	Clutch pedal signal	Clutch switch	approx. 0 V		
27	A	Kick-down signal	EGS control unit	approx. 0 V (ON) approx. 12 V (OFF)		
28	A	Full load signal	DME control unit	approx. 0 V		
29	E	Engine speed signal (TD)	DME control unit	Square wave signal		
30		Not used				
31	E	S-program identification	EGS control unit	approx. 0 V		
32	A	5 V (not short circuit proof)	Pedal position sensor/ EML actuator	approx. 5 V		
33	E	A/C compressor ON	Pressure switch	approx. 12 V (ON)		
34	E	Decrease throttle position angle (DKR)	ABS/ASC-control unit	Square wave signal		
35	E	Increase throttle position angle (DKE)	ABS/ASC-control unit	Square wave signal		

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

1270.0-06
F
.5 BL/VI
.75 SW/RT
.75 BL/SW
.75 BL/GE
.5 BR/GR
3
2
6
X73
A6004
5V(15)
THROTTLE
CONTROL
MODULE (EML)
5
X6004
.5 BR/RT
2
X6234
B6234
ENGINE COOLANT
TEMP. SENSOR
(EML)
1
X6234
R10
PEDAL POSITION
SENSOR
1) ACCELERATOR PEDAL ANGLE GREATER THAN 9 DEGREES
2) ACCELERATOR PEDAL FULLY DEPRESSED
3) ACCELERATOR PEDAL RELEASED
4) ACCELERATOR PEDAL PARTIALLY DEPRESSED
4
1
5
6
7
X73
.75 BL/BR
.75 BL/GN
.75 BL/GR
.5 BR/GR
.75 BL/VI
23
20
24
25
X69
.5 BL/VI
.75 BL/VI
.5 BL/BR
.5 BL/GN
.5 BL/GR
X6884
1 BL/VI
1270.0-04
E
.5 BR
11
15
21
7
X6004
31
31
31
31
A6004
THROTTLE
CONTROL
MODULE (EML)
X10090
.5 BR/GR
.5 BR/GR
3
X116
S30
BRAKE LIGHT
SWITCH
3) BRAKE PEDAL DEPRESSED (TEST)
4) BRAKE PEDAL RELEASED (NORMAL)
4
X116
GROUND
DISTRIBUTION
0670.4
X165
9
X34
.5 BR/GR
2
X16205
.5 BR/GR
18
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

4HP22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

ENGINE CONTROL SYSTEMS (DME)

E-BOX FAN

535i, M5

11/92 2460 0 1992

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

Pin Assignments

X8500

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Plus supply, solenoid valves, pressure regulators and shift lock solenoid	Gear shift unit	Active high	Component activation	This supply is switched off during mechanical emergency program, i.e. transmission relay in control unit deenergizes.
2	E	Kick-down	EML control unit (with EML) Kick-down switch (without EML)	Active low	Status display	
3		Not used				
4	E/A	EML control unit signal	EML control unit	Active low	Status display	Only in GS 1.26/1.27
5	M	Ground, control unit	Ground			
6	A	Ground, program button	Program button/throttle switch			
7	E	Throttle signal	Throttle switch	Analog	Status display	According to pedal position
8	E	Output speed n-ab (+)	Gearshift unit		Status display	
9	A	Voltage supply, throttle potentiometer	Throttle switch			DK (+) only without EML
10	E	A-program signal	Program button	Active low	Status display	Only in GS 1.26/1.27
11	E	Fuel consumption display (tl signal)	DME control unit		Status display	
12	E/A	TxD				
13	E	RxD				

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	A	Program signal	Instrument cluster		Status display	
15	E/A	M-program signal	Program button, instrument cluster		Status display	
16	A	Solenoid valve 1	Gearshift unit	Active low	Component activation	
17	A	Solenoid valve, pressure regulation	Gearshift unit	Current control	Component activation	
18	E	Position switch L1	Selector lever	Active high	Status display	
19	M	Ground, control unit	Ground			
20	A	Lifting solenoid, shift-lock	Shift-lock solenoid	Active low	Component activation	Only in GS 1.22/E7 regulation
21	E	Engine speed n-mot (TR signal)	DME control unit		Status display	
22	A	Solenoid valve 2	Gearshift unit	Active low	Component activation	
23	A	Shield speed sensor		Ground		
24	A	Engine intervention	DME control unit	Active low	Component activation	
25	A	Solenoid valve, torque converter clutch	Gearshift unit	Active low	Component activation	
26	E	Brake test switch signal	Brake light switch	Active high		Only in GS 1.22, 1.27
27	E	Output speed n-ab (-)	Gearshift unit		Status display	
28	E	Position switch L2	Selector lever	Active high	Status display	
29	E	Position switch L3	Selector lever	Active high	Status display	
30	E	Position switch L4	Selector lever	Active high	Status display	
31	A	Brake test switch	Brake light switch			
32	E	Set throttle signal	EML control unit	Pulse width modulated	Status display	Correspond to accelerator pedal position
33	A	Fault display	Check control module (A4)	Active high		

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
34	E	Voltage supply terminal 30	Battery	Battery voltage		Continuous supply
35	E	Voltage supply	DME main relay			Holding circuit DME

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

SHIFT LOCK

11/92 — 2460 2 — 1992
11/92 — 2460 2 — 1992

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

Pin Assignments

X8500

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Shift lock solenoid control	Shift lock solenoid			
2	E	Automatic mode signal	Program switch	Ground		
3		Not used				
4	A	Ignition timing intervention	DME control unit	Ground		Active only during gear shifts
5		Not used				
6		Not used				
7		Not used				
8	E	Gear range signal L3	Auto. trans. range switch			
9	E	ti Measuring signal (KVA)	DME control unit	Square-wave signal	Multimeter function pulse duration	Oscilloscope
10	A	Automatic mode indicator	Instrument cluster			
11	E	Engine speed signal (TR)	DME control unit	Ground with superimposed signal		Can only be measured with crankshaft rotating
12	A	Manual mode indicator	Instrument cluster			
13	E/A	Diagnosis TxD	Diagnostic socket			
14	E	Transmission output shaft speed (-)	EGS RPM sensor			
15	E	Switch test signal	Brake light test switch			

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
16		Not used				
17	E	Analog ground (oil temperature sensor)	Transmission gear shift unit			
18	A	Shield, RPM sensor	EGS RPM sensor	Ground		
19	M	Ground	Ground	Ground		
20	E	Transmission output shaft speed (+)	EGS RPM sensor			
21	E	A/C compressor ON	Pressure switch			
22	E	Oil temperature signal (+)	Transmission gear shift unit	NTC		
23	E	Gear range signal L1	Auto. trans. range switch			
24		Not used				
25	E	Diagnosis RxD	Diagnostic socket			
26	E	Gear range signal L2	Auto. trans. range switch			
27		Not used				
28	E	Terminal 30 voltage	Terminal 30			
29	A	Fault indicator signal	Check control module			
30	E	Kick down signal	Kick down switch	Ground		
31	E	Manual mode signal	Program switch	Ground		
32		Not used				
33	E	Gear range signal L4	Auto. trans. range switch			
34		Not used				
35	A	Solenoid ground	Shift lock solenoid			
36	M	Ground	Ground	Ground		
37	E	Voltage supply	Relay 2, DME			

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
38	A	Torque converter clutch solenoid control	Transmission gear shift unit			
39	E	Brake pedal status	Brake light test switch			
40	A	Pressure regulator solenoid control (+)	Transmission gear shift unit			
41	A	Pressure regulator solenoid control (-)	Transmission gear shift unit			
42		Not used				
43	A	Solenoid 2 control (+)	Transmission gear shift unit			
44		Not used				
45	A	Band solenoid control (+)	Transmission gear shift unit			
46		Not used				
47		Not used				
48	A	Solenoid 1 control (+)	Transmission gear shift unit			
49		Not used				
50		Not used				
51		Not used				
52		Not used				
53		Not used				
54	A	Solenoid ground	Transmission gear shift unit			
55	E	Throttle position signal	DME control unit	Pulse width modulated		

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

K6300
ENGINE CONTROL
MODULE RELAY
87a
5
X6300
4 RT/BL
X6623
ENGINE CONTROL
SYSTEM
(DME M3.1,
6-CYLINDER M50)
1210.7
1.5 RT/BL
8
X6003
1.5 RT/BL
Y8518
ELECTRONIC
TRANSMISSION
ENGINE SPEED
SENSOR (EGS)
N
S
1
2
X8516
.5 SW
.5 GE
W8518
SHIELD UP TO
10mm BEFORE
ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
6
X6053
1.5 RT/BL
.5 OR
.5 GN
.5 VI
.5 BL
.5 RT
.5 SW
5
6
2
7
9
3
X8505
Y8505
TRANSMISSION
VALVE UNIT
1) SOLENOID
VALVE 1
2) SOLENOID
VALVE 2
3) HYDRAULIC
PRESSURE
REGULATOR
4) BAND
SOLENOID
5) TORQUE
CONVERTER
CLUTCH
SOLENOID
VALVE
7) OIL TEMPE-
RATURE
SENSOR
8
1
4
X8505
.75 BR
.5 GR
.5 TR
20
14
18
37
54
41
17
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
5V (15)
31
31
31
31
31
31

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

1.5 BR/OR
30
31
1.5 BR
19
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
15
TI
9
X8500
.5 WS/SW
8
X506
.5 WS/SW
N4
ON-BOARD
COMPUTER
1) FUEL
CONSUMPTION
15
1
11
X501
.5 WS/SW
X1417
.5 WS/SW
26
X15
.5 WS/SW
X228
.5 WS/SW
INSTRUMENT
CLUSTER/
CHECK CONTROL
(K/CC)
6200.0
.75 WS/SW
24
X20
.5 WS/SW
17
X8000
A8000
ENGINE CONTROL
MODULE (DME)
15
31

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

ELECTRIC STEERING COLUMN ADJUSTMENT

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

* THE DRIVER'S AIR BAG GENERATOR CONNECTOR IS FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 62 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

POWER ASSIST STEERING (SERVOTRONIC)

11/92 3450 0 1992
11/92 3450 0 1992

Pin Assignments

X11

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Battery voltage	DME Relay	approx. 12 V		
2	A	Left front solenoid control	Front left solenoid valve	Ground		
3		Not used				
4	E	Ground	Front left speed sensor	Ground		
5		Not used				
6	E	Speed sensor signal	Front left speed sensor			
7	E	Speed sensor signal	Rear left speed sensor			
8		Not used				
9	E	Ground	Rear left speed sensor	Ground		
10	M	Ground, control unit	Ground	Ground		
11	E	Speed sensor signal	Front right speed sensor			
12		Not used				
13		Not used				
14	E	Pump relay monitor	Pump relay			
15	E	Battery voltage	Alternator	approx. 12 V		
16		Not used				
17		Not used				
18	A	Rear left solenoid control	Rear left solenoid valve	Ground		
19	A	Rear right solenoid control	Rear right solenoid valve	Ground		535i, M5

ANTILOCK BRAKE SYSTEM (ABS)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
20	M	Ground, control unit	Ground	Ground		
21	E	Ground	Front right speed sensor	Ground		
22		Not used				
23		Not used				
24	E	Speed sensor signal	Rear right speed sensor			
25	E	Brake pedal status	Brake light switch			
26	E	Ground	Rear right speed sensor	Ground		
27	A	Valve relay control	Valve relay	Ground		
28	A	Pump relay control	Pump relay	Ground		
29	A	Warning lamp control	Instrument cluster	Ground		
30	A	RxD	Diagnostic connector			
31	E	TxD	Diagnostic connector			
32	E	Display, valve relay	Valve relay			
33		Not used				
34	M	Ground, control unit	Ground	Ground		
35	A	Front right solenoid control	Front right solenoid valve	Ground		

SLIP CONTROL (ABS)

SLIP CONTROL (ABS)

SLIP CONTROL (ABS)

SLIP CONTROL (ABS)

525i

SLIP CONTROL (ABS)

535i, M5

SLIP CONTROL (ABS)

535i, M5

HOT IN RUN AND START
HOT IN ACCY, RUN AND START
HOT IN RUN AND START
HOT IN RUN AND START
3450 1 00
P90
FRONT POWER DISTRIBUTION BOX
X2
3450 1 00
X6400
B+ JUNCTION POINT
F29
7.5A
F1
15A
F17
7.5A
3450 1-00
3450 1-01
3450 1-02
P90
FRONT POWER DISTRIBUTION BOX
X3
X2
3450 1-02
3450 1 03
P90
FRONT POWER DISTRIBUTION BOX
3450 1-06
A6004
THROTTLE CONTROL MODULE (EML)
3450 1 00
K10
ABS RELAY
8A
3450 1 02
S29
BRAKE LIGHT SWITCH
3450 1 01
A2
INSTRUMENT CLUSTER
ASC
3450 1-02
3450 1 03
Y1
ABS HYDRAULIC UNIT
3450 1 03
A2
INSTRUMENT CLUSTER
ABS
G2
GENERATOR
D+
CHARGING SYSTEM
1230 0
LIGHT SWITCH
DETAILS
6300 0
3450 1 01
S6
ASC SWITCH
42
1
54
15
51
37
5
25
23
21
20
19
2
4
6
33
46
48
X1171
A70
SLIP CONTROL MODULE (ABS/ASC)
30
29
8
26
10
28
13
12
52
43
47
45
38
41
3
18
36
X1171
3450 1 02
S31
PARK BRAKE SWITCH
3450 1-05
T6150
IGNITION COIL
3450 1 04
B4
LEFT REAR SPEED SENSOR - ABS
3450 1 04
B2
LEFT FRONT SPEED SENSOR - ABS
3450 1 04
B3
RIGHT REAR SPEED SENSOR - ABS
3450 1 04
B1
RIGHT FRONT SPEED SENSOR - ABS
3450 1-06
A6004
THROTTLE CONTROL MODULE (EML)
3450 1-05
A6000
ENGINE CONTROL MODULE (DME)

Pin Assignments

X1171

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Battery voltage	ABS relay	approx. 12 V		
2	A	Right rear solenoid control	Right rear solenoid valve	Ground		
3	M	Ground, control unit	Connection, Pin 41 and ground	Ground		
4	E	Power	Valve relay			
5	E	Controlled ground	Pump relay	Ground		
6	A	ABS lamp control	Instrument cluster	Ground		
7		Not used				
8	E	Speed signal	Left front speed sensor			
9		Not used				
10	E	Speed signal	Right rear speed sensor			
11		Not used				
12	E	Sensor ground	Right front speed sensor	Ground		
13	E	Speed signal	Right front speed sensor			
14		Not used				
15	E	Brake pedal status	Brake light switch	Ground		
16		Not used				
17		Not used				
18	M	Ground, control unit	Ground	Ground		

AUTOMATIC STABILITY CONTROL (ASC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
19	A	Left rear solenoid control	Left rear solenoid valve	Ground		
20	A	Right front solenoid control	Right front solenoid valve	Ground		
21	A	Left front solenoid control	Left front solenoid valve	Ground		
22		Not used				
23	E	Valve relay control	Valve relay	Ground		
24		Not used				
25	E	Pump relay monitor	Pump relay			
26	E	Sensor ground	Front left speed sensor	Ground		
27		Not used				
28	E	Sensor ground	Right rear speed sensor	Ground		
29	E	Sensor ground	Left rear speed sensor	Ground		
30	E	Speed signal	Left rear speed sensor			
31		Not used				
32		Not used				
33	E	Charging voltage	Alternator	approx. 12 V		
34		Not used				
35		Not used				
36	M	Ground, control unit	Ground	Ground		
37	A	Power signal	Pump relay			
38	E	Ignition timing signal	Ignition coil			
39		Not used				
40		Not used				
41	M	Ground	Connection, Pin 3	Ground		
42	E	Battery voltage	Power distribution box	approx. 12 V		

AUTOMATIC STABILITY CONTROL (ASC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
43	A	EML-Signal	EML-Module			
44		Not used				
45	E	Ignition cut-off signal	DME-Module			
46	E	Throttle signal	EML-Module			
47	E	DME-signal	DME-Module			
48	E	Throttle signal	EML-Module			
49		Not used				
50		Not used				
51	A	ASC lamp control	Instrument cluster	Ground		
52	E	Park brake signal	Park brake switch	Ground		
53		Not used				
54	E	Switch signal	ASC-Switch			
55		Not used				

SLIP CONTROL (ABS/ASC)

SLIP CONTROL (ABS/ASC)

SLIP CONTROL (ABS/ASC)

SLIP CONTROL (ABS/ASC)

SLIP CONTROL (ABS/ASC)

SLIP CONTROL (ABS/ASC)

ENGINE CONTROL (DME) INTERFACE

SLIP CONTROL (ABS/ASC)

EML INTERFACE

POWER MIRRORS

5116.0-00
A
.5 BL/WS
.5 BL/GN
.5 BL/SW
22
20
21
X257
1.5 BR
.5 SW/WS
.5 BL/WS
.5 BL/SW
.75 BL/SW
.75 BL/WS
.75 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
1.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X491
X495

POWER MIRRORS

INSIDE MIRRORS

.75 GR/SW
X196
LIGHT SWITCH DETAILS 6300.0
.75 GR/SW
8
X15
.75 GR/SW
X579
.75 GR/SW
7
X251
LIGHT SWITCH DETAILS 6300.0
.75 GR/SW
X461
.5 GR/SW
3
HOT AT ALL TIMES
P91 REAR POWER DISTRIBUTION BOX
F30 7.5A
FUSE DETAILS 0670.3
2
X360
A22 AUTOMATIC INSIDE MIRROR
1) DAY POSITION ONLY
2) AUTOMATIC
3) NIGHT POSITION ONLY
4) MIRROR ALTERNATES BETWEEN DAY AND NIGHT, MOVES TO DAY WHEN LIGHTS ARE OFF
5) INDICATOR LIGHTS WHEN IN THE NIGHT POSITION
M
1
2
3
4
5
1
X360
GROUND DISTRIBUTION 0670.4
X493

POWER MIRRORS

ELECTROCHROMIC REAR VIEW MIRROR

ZKE DOOR LOCK HEATING (TSH)

INPUT DETAILS

ZKE DOOR LOCK HEATING (TSH)

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS

HOT AT ALL TIMES
5126.0-04
5126.0-05
5126.0-04
525ii 5126.0-06
5126.0-05
D
B
C
F
.5 BL/RT/GE 525ii
X450
.5 BL/RT/GE
10 X13025
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
525ii .5 WS/SW/GE
.5 WS/GN/GE
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
9 X13025
.5 WS/RT/GE
.5 WS/RT/GE
525i, 535i, M5
525ii
P91
REAR POWER
DISTRIBUTION
BOX
F47
30A
FUSE DETAILS
0670.3
2.5 RT/GE
.75 RT/GE
6
8
X294
K15
ELECTRIC
POWER
PROTECTION
RELAY
30
86
87
85
2
4
X294
5126.0-03
O
P
.5 WS/BL
.5 BL/RT/GE
.5 WS/GE
.5 WS/GN
.5 BL/BR/GE
.5 WS/RT/GE
2.5 RT/BR
.5 BR/RT
23
16
11
20
17
24
7 X255
4 X332
10 X253
A1
GENERAL MODULE
31
30
RM
23 X253
5 X332
.5 BR/SW
4 RT/VI
2 X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
2 1
1 X388
E
5126.0-02
5126.0-07
GROUND
DISTRIBUTION
0670.4
X496

ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

525it

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

525it

OUTPUT DETAILS

ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

ZKE POWER WINDOWS (FH)

INPUT DETAILS

ZKE POWER WINDOWS (FH)

INPUT DETAILS

ZKE POWER WINDOWS (FH)

INPUT DETAILS

HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F47
30A
FUSE DETAILS
0670.3
.75 RT/GR
2.5 RT/GR
X294
K15
ELECTRIC POWER PROTECTION RELAY
.5 BR/RT
X253
X332
A1
GENERAL MODULE
.5 BL/BR/GE
X255
RM
.5 BR/GR
X277
X715
S45
LEFT REAR WINDOW LIMIT SWITCH
1) WINDOW OPEN
2) WINDOW CLOSED
.5 GR/SW
.5 GR/RT
.5 GR/RT/GE
.5 GR/SW/GE
5133.0-01
.5 BR/WS
X254
X278
.5 BR/GR
X721
S46
RIGHT REAR WINDOW LIMIT SWITCH
1) WINDOW OPEN
2) WINDOW CLOSED
4 RT/VI
5133.0-00
GROUND DISTRIBUTION
0670.4
X491
X495

ZKE POWER WINDOWS (FH)

LEFT SIDE OUTPUT DETAILS

ZKE POWER WINDOWS (FH)

RIGHT SIDE OUTPUT DETAILS

11/92 5200 0 1992 11/92 5200 0 1992

Pin Assignments

A = X603 12 Pins, black
B = X604 12 Pins, black
C = X881 6 Pins, white
D = X887 6 Pins, black

X603 (Driver) and X604 (Passenger)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E/A	Seat cushion tilt control	Seat cushion tilt motor			
2	E/A	Seat cushion tilt control	Seat cushion tilt motor			
3	E/A	Seat cushion movement control	Seat movement motor			
4	E/A	Seat cushion movement control	Seat movement motor			
5	E	Battery voltage	Fuse			
6	M	Ground	Ground			
7	E/A	Seat cushion height control	Seat height motor			
8	E/A	Seat cushion height control	Seat height motor			
9	E/A	Headrest control	Headrest motor			
10	E/A	Recliner control	Seat back recliner motor			
11	E/A	Headrest control	Headrest motor			
12	E/A	Recliner control	Seat back recliner motor			

X887 (Driver) and X881 (Passenger)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E/A	Thigh support control	Thigh support motor			
2	E	Switch illumination	Light switch			
3	M	Ground	Ground			
4	E/A	Thigh support control	Thigh support motor			
5	E	Battery voltage	Fuse			
6	M	Ground	Ground			

POWER SEATS

DRIVER'S SEAT

POWER SEATS

DRIVER'S SEAT

POWER SEATS

PASSENGER'S SEAT

POWER SEATS

PASSENGER'S SEAT

POWER SEATS

THIGH SUPPORT, WITH SPORT SEATS ONLY

11/92 5200 1 1992
11/92 5200 1 1992

Pin Assignments

A = X601 26 Pins, white
B = X602 26 Pins, yellow
C = X648 6 Pins, black
D = X649 6 Pins, white
E = X653 6 Pins, black
F = X654 6 Pins, white
G = X655 6 Pins, blue
H = X656 6 Pins, green
I = X657 6 Pins, brown
I = X18181 6 Pins, yellow

X601

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Potentiometer connection	Driver's mirror	0–4.5 V	Voltage value	
2	E	Potentiometer connection	Driver's mirror	0–4.5 V	Voltage value	
3	A	Position potentiometer, voltage	Driver's mirror	5 V	Voltage value	
4	M	Position potentiometer, ground	Driver's mirror	Ground	Voltage value	
5		Not used				
6	E	Potentiometer connection	Passenger's mirror	0–4.5 V	Voltage value	
7		Not used				
8		Not used				

MEMORY SEATS/MIRRORS (SM/SPM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
9		Not used				
10	E	Potentiometer connection	Passenger's mirror	0-4.5 V	Voltage value	
11	E	Mirror select signal	Mirror control switch	Ground	Status display	
12	E	Mirror adjustment, L/R	Mirror control switch	Ground	Status display	
13	E	Mirror adjustment, L/R and U/D	Mirror control switch	Ground	Status display	
14	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motor, horizontal			
15	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motors, horizontal/vertical			
16	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motor, vertical			
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21	M	Position potentiometer, ground	Passenger's mirror	Ground	Voltage value	
22	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, horizontal/vertical			
23	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, horizontal			
24	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, vertical			
25	A	Position potentiometer voltage	Passenger's mirror	5 V	Voltage value	
26		Not used				

MEMORY SEATS/MIRRORS (SM/SPM)

X602

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Headrest down	Seat adjustment switch	Ground	Status display	
2	E	Tilt, down	Seat adjustment switch	Ground	Status display	
3	E	Height, down	Seat adjustment switch	Ground	Status display	
4	E	Headrest up	Seat adjustment switch	Ground	Status display	
5	E	Tilt, up	Seat adjustment switch	Ground	Status display	
6	E	Height, up	Seat adjustment switch	Ground	Status display	
7	E	Thigh support, backward	Thigh support switch	Ground	Status display	
8	E	Seat movement, back	Seat adjustment switch	Ground	Status display	
9	E	Backrest, back	Seat adjustment switch	Ground	Status display	
10	E	Seat movement, forward	Seat adjustment switch	Ground	Status display	
11	E	Thigh support, forward	Thigh support switch	Ground	Status display	
12	A	Memory switch voltage	Memory switch	5 V	Status display	
13	E	Backrest, forward	Seat adjustment switch	Ground	Status display	
14		Not used				
15	E	Ground	Seat adjustment switch	Ground		
16	E	Ground	Thigh support switch			
17		Not used				
18	A	Switch illumination (–)	Memory switch	Ground		
19	A	Switch illumination (+)	Memory switch	12 V		
20		Not used				
21		Not used				
22		Not used				

MEMORY SEATS/MIRRORS (SM/SPM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
23		Not used				
24	A	Memory switch LED (-)	Memory switch	Ground		
25	A	Memory switch LED (+)	Memory switch	2 V		
26	E	Memory switch signal	Memory switch	Voltage value		

X648

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Reverse gear signal	Back up switch			
2	E	Driver's door status	Driver's door jamb switch			
3		Not used				
4		Not used				
5	A	Diagnosis (RxD)	Diagnosis connector			
6	E	Diagnosis (TxD)	Diagnosis connector			

X649

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Terminal 15 voltage	Fuse			
2		Not used				
3	E	Terminal R voltage	Fuse			
4		Not used				
5		Not used				
6	M	Ground	Ground point			

MEMORY SEATS/MIRRORS (SM/SPM)

X653

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's headrest pot.			
2	E	Headrest position signal	Driver's headrest pot.			
3	M	Ground	Driver's headrest pot.			
4	E/A	Motor voltage/ground	Driver's headrest motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's headrest motor			

X654

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat height pot.			
2	E	Seat height position signal	Driver's seat height pot.			
3	M	Ground	Driver's seat height pot.			
4	E/A	Motor voltage/ground	Driver's seat height motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat height motor			

X655

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat back pot.			
2	E	Seat back position signal	Driver's seat back pot.			
3	M	Ground	Driver's seat back pot.			

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
4	E/A	Motor voltage/ground	Driver's seat back recliner motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat back recliner motor			

X656

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat rear height pot.			
2	E	Seat rear height signal	Driver's seat rear height pot.			
3	M	Ground	Driver's seat rear height pot.			
4	E/A	Motor voltage/ground	Driver's seat cushion tilt motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat cushion tilt motor			

MEMORY SEATS/MIRRORS (SM/SPM)

X657

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat potentiometer			
2	E	Seat cushion position signal	Driver's seat potentiometer			
3	M	Ground	Driver's seat potentiometer			
4	E/A	Motor voltage/ground	Driver's seat movement motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat movement motor			

X18181

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat thigh support pot.			
2	E	Thigh support position signal	Driver's seat thigh support pot.			
3	M	Ground	Driver's seat thigh support pot.			
4	E/A	Motor voltage/ground	Driver's seat thigh support motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat thigh support motor			

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

A21
SEAT/MIRROR
MEMORY
CONTROL MODULE
15
5V (15)
5V (15)
19
25
12
X602
.5 BR/BL
.5 GN/RT
.5 GR/BL
.5 GR/RT
3
1
2
X650
S57
MEMORY SEAT
MIRRORS SWITCH
0) PROGRAM
1) MEMORY POSITION 1
2) MEMORY POSITION 2
3) MEMORY POSITION 3
68 Ω
118 Ω
385 Ω
0
3
2
1
4
5
6
X650
.5 BR/GE
.5 BR/GR
.5 SW
15
18
24
26
X602
A21
SEAT/MIRROR
MEMORY
CONTROL MODULE
31
31
31
31
6
X649
GROUND
DISTRIBUTION
0670.4
X491

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

SEAT

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

SEAT

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

SEAT

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)
WITH SPORT SEAT

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

MIRROR

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

MIRROR

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

HEATED SEATS

ZKE SUNROOF (SHD)

INPUT DETAILS

HOT IN RUN AND START
F17
7.5A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
.5 BL/BR/GE
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
10
X13025
.5 BL/RT/GE
X450
.5 BL/RT/GE
520lt
ZKE CENTRAL
LOCKING (ZV)
5126.0
.5 BL/RT/GE
HOT AT ALL TIMES
F47
30A
P91
REAR POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
2.5 RT/GR
.75 RT/GR
6
6
X294
K15
ELECTRIC
POWER
PROTECTION
RELAY
2
4
X294
2.5 RT/BR
.5 BR/RT
9
24
16
X255
4
X332
10
X253
A1
GENERAL MODULE
30
30
30
30
30
RM
31
31
31
31
14
X255
2
17
19
18
X254
5
X332
.5 GE/VI
.5 GE/SW
.5 GE/WS
.5 GE/GR
.5 GE/GN
4 RT/VI
B
C
F
D
E
A
5410.0-02
5410.0-03

ZKE SUNROOF (SHD)

INPUT DETAILS

ZKE SUNROOF (SHD)

OUTPUT DETAILS

11/92 5410 2 1992
11/92 5410 2 1992

Pin Assignments

A = X13085 10 Pins
B = X13086 18 Pins

X13085

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Power, terminal 30	Power distribution box	approx. 12 V		
2	E/A	Motor voltage/ground	Motor, front roof			
3	E/A	Motor voltage/ground	Motor, front roof			
4	E/A	Motor voltage/ground	Motor, rear roof			
5	E/A	Motor voltage/ground	Motor, rear roof			
6	M	Module ground	Ground	Ground		
7	A	Power	Sensor, front roof			
8	A	Power	Sensor, rear roof			
9	A	Power	Switch, double panel power sunroof			
10	E	Power	General module			

X13086

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Position contact	Sensor, front roof			
2		Not used				

DOUBLE PANEL POWER SUNROOF (ZKE)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3	E	Position contact	Sensor, front roof			
4	E	Position contact	Sensor, front roof			
5		Not used				
6	E	Control signal	Relay module			
7	A	RxD	Diagnostic connector			
8	E	Switch, closed	Switch, double panel power sunroof			
9	E	Switch, closed	Switch, double panel power sunroof			
10	E	Position contact	Sensor, rear roof			
11		Not used				
12	E	Position contact	Sensor, rear roof			
13	E	Position contact	Sensor, rear roof			
14		Not used				
15	E	TxD	Diagnostic connector			
16	E	MSD+	Relay module			
17	E	Switch closed	Switch, double panel power sunroof			
18		Not used				

DOUBLE PANEL POWER SUNROOF (ZKE)

DOUBLE PANEL POWER SUNROOF (ZKE)

DOUBLE PANEL POWER SUNROOF (ZKE)

CENTRAL BODY ELECTRONICS (ZKE)

GENERAL MODULE

CENTRAL BODY ELECTRONICS (ZKE)

GENERAL MODULE

CENTRAL BODY ELECTRONICS (ZKE)

CDN

GENERAL MODULE

HOT AT ALL TIMES
P91
REAR POWER
DISTRIBUTION
BOX
F47
30A
FUSE DETAILS
0670.3
2.5 RT/GR
.75 RT/GR
X294
K15
ELECTRIC
POWER
PROTECTION
RELAY
2.5 RT/BR
.5 BR/RT
X332
X253
RM
.75 GE/GN
X595
LIGHT SWITCH
DETAILS
6300.0
.5 GE/GN
X509
K25
RIGHT PARK
LIGHT/LICENSE
PLATE LIGHT
RELAY
FUSE DETAILS
0670.3
GROUND
DISTRIBUTION
0670.4
X185
.75 GR/GE
PARK/TAIL/
UNDERHOOD
LIGHTS
6314.0
.75 GR/SW
X1098
X196
LIGHT SWITCH
DETAILS
6300.0
X15
X579
X251
X461
LIGHT SWITCH
DETAILS
6300.0
.75 GE/GR
X1092
HEADLIGHTS/
FOG LIGHTS
6312.0
X15
X582
HEADLIGHTS/
FOG LIGHTS
6312.0
X251
.5 GE/GR
30h START
1240.0
.75 SW/GN
X276
START
1240.0
X14
.5 SW/GN
X255
A1
GENERAL MODULE
X332
4 RT/VI
X469
.5 RT/VI
ZKE
POWER WINDOWS
(FH)
5133.0
6100.0-05
6100.0-06
6100.0-07
.5 BL/GN/GE
.5 BL/SW/GE
.5 BL/WS/GE
ZKE
HEADLIGHT
WASHER (SRA)
6167.0

CENTRAL BODY ELECTRONICS (ZKE)

GENERAL MODULE

CENTRAL BODY ELECTRONICS (ZKE)

RELAY MODULE

CENTRAL BODY ELECTRONICS (ZKE)

RELAY MODULE

CENTRAL BODY ELECTRONICS (ZKE)

RELAY MODULE

CENTRAL BODY ELECTRONICS (ZKE)

RELAY MODULE

HORN

HOT AT ALL TIMES
F9
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
HOT AT ALL TIMES
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.75 VI
8
X56
6
30
88
K2
HORN RELAY
87
85
7
10
X56
1 VI/BL
.5 BR/RT
X10021
11
X32
.5 BR/RT
1 VI/BL
1 VI/BL
1
X168
2
X133
H3
RIGHT HORN
2
X132
H2
LEFT HORN
S4
HORN SWITCH
1
X133
1
X132
31
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X179
X175

ZKE WIPER/WASHER CONTROL

INPUT DETAILS

A1
GENERAL MODULE
30
25 X253
.5 SW/GN
4 VI/SW
20 X259
10 X258
A5
RELAY MODULE
10
9
.5 SW/VI/GE
3 X253
A1
GENERAL MODULE
R
31
22 X255
.5 BR/GN/GE
4 X333
19
18
4 SW/WS/GE
4 SW/
RT/GE
X468
X467
2.5 SW/WS/GE
2.5 SW/
RT/GE
3
2 X333
8 X259
.5 SW/GR
3 X295
.75 SW/GR
S5
WIPER/WASHER
SWITCH
0) OFF
1) SINGLE WIPE
2) INTERMITTENT
3) NORMAL
4) FAST
.75 BR
1 X295
M3
WIPER MOTOR
1) WIPER IN
PARK
2) WIPER NOT
IN PARK
1 X333
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495
X491
X490

ZKE WIPER/WASHER CONTROL

REAR WINDOW WIPER/WASHER CONTROL

525it

HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
FUSE DETAILS
0670.3
A36
REAR
WIPER/WASHER
INTERVAL
CONTROL MODULE
.5 BR/SW
X13114
.5 BR/SW
.5 BR/SW
2
5
8
X13124
30
86a
86
K92
REAR WINDOW
WIPER RELAY II
87
85
6
4
X13124
LICENSE PLATE/
LUGGAGE
COMPARTMENT
LIGHTS
6320.0
.5 BR/GE
.5 VI/WS
.75 WS/BR
2
3
X13059
S147
REAR WINDOW
OPENING SWITCH
0) CLOSED
1) OPEN
1
0
1
0
1
X13059
GROUND
DISTRIBUTION
0670.4
X493
.5 BR/WS
.5 VI/WS
5
8
X13123
87
86
K91w
REAR WINDOW
WIPER RELAY I
31
85
6
4
X13123
.5 BR/VI
A
8162.0-00
GROUND
DISTRIBUTION
0670.4
3
6
1
X13106
2.5 SW/RT
2.5 SW/GE
2
3
X13057
M94
REAR WINDOW
WIPER MOTOR
1) WIPER IN
PARK
POSITION
2) WIPER NOT
IN PARK
POSITION
1
2
M
1
X13057
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X498

ZKE HEADLIGHT WASHER (SRA)

CDN

INPUT DETAILS

.5 GE/GN
4
6
X509
85
30
K25
RIGHT PARK
LIGHT/LICENSE
PLATE LIGHT
RELAY
86
87b
87
8
5
2
X509
.75 GR/SW
.75 GR/GE
1
X1098
.75 GR/SW
X196
LIGHT SWITCH
DETAILS
6300.0
6
X15
.75 GR/SW
PARK/TAIL/
UNDERHOOD
LIGHTS
6314.0
X570
.75 GR/SW
GROUND
DISTRIBUTION
0670.4
7
X251
.75 GR/SW
X461
LIGHT SWITCH
DETAILS
6300.0
.5 GR/SW
18
X165
HEADLIGHTS/
FOG LIGHTS
6312.0
FUSE DETAILS
0670.3
X582
HEADLIGHTS/
FOG LIGHTS
6312.0
.5 GE/GR
27
X251
.5 GE/GR
26
9
X255
A1
GENERAL MODULE
R
31
31
31
6
X255
.5 BR/VI
5
X295
.75 BR/VI
S5
WIPER/WASHER
SWITCH
0) OFF
5) WASH
0
5
.75 BR
1
X295
GROUND
DISTRIBUTION
0670.4
X490

ZKE HEADLIGHT WASHER (SRA)

CDN

OUTPUT DETAILS

WINDSHIELD WASHER JET HEATERS

11/92 — 6200 0 — 1992
11/92 — 6200 0 — 1992

Pin Assignments

A = X16 26 Pins, beige
B = X17 6 Pins, brown
C = X18 26 Pins, blue
D = X19 26 Pins, green
E = X271 12 Pins, gray
F = X502 26 Pins, white

X16

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Airbag indicator control	Diagnostic module (SRS)	Ground		
2	E	Data line	Check control module			
3	A	Data line	Check control module, Lamp control module, On-board computer and radio			
4	E	Data line	Check control module			
5	E	Charge indicator control	Alternator			
6	E	Oil pressure indicator control	Oil pressure switch	Ground		
7	E	Terminal 15 power	Fuse			
8	E	ASC indicator control	ABS/ASC control module	Ground		
9	E	Oil temperature signal (M5)	Oil temperature sensor			
10	M	Ground, brake pad signal	Brake pad sensor			
11	E	Trailer turn signal indicator	Hazard flasher relay			

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
12	E	Terminal 30 power	Fuse	approx. 12 V		
13	E	Terminal 30 power	Fuse	approx. 12 V		
14		Not used				
15	E	Brake fluid warning	Brake fluid level switch			
16	A	SIA reset	Diagnostic connector			
17	E	ti signal for fuel economy	DME control unit			
18	E	TD signal for tachometer	DME control unit			
19		Not used				
20	E	ABS indicator control	ABS/ASC control unit			
21	E	Airbag indicator power	Terminal R, ignition switch			
22	E	High beam indicator power	Combination switch			
23	A	Data line	Check control module, On-board computer and radio			
24	M	Temperature sensor ground	Ground			
25	E	Brake pad warning	Brake pad sensor			
26	E	Temperature gauge signal	Coolant temperature sensor			

X17

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	M	Ground	Ground	Ground		
2	E/A	Diagnosis (RxD)	Diagnostic connector			
3	E	Terminal R power	Fuse	approx. 12 V		
4		Cluster programming	NV-RAM			
5		Cluster programming	NV-RAM			

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
[illegible]		Cluster programming	NV-RAM			
7		Cluster programming	NV-RAM			
8		Cluster programming	NV-RAM			
9		Cluster programming	NV-RAM			
10		Cluster programming	NV-RAM			
11		Cluster programming	NV-RAM			
12		Cluster programming	NV-RAM			
13	M	Ground	Ground	Ground		
14	E	Diagnosis (TxD)	Diagnostic connection			
15	E	Terminal R power	Fuse	approx. 12 V		
16		Cluster programming	NV-RAM			
17		Cluster programming	NV-RAM			
18		Cluster programming	NV-RAM			
19		Cluster programming	NV-RAM			
20		Cluster programming	NV-RAM			
21		Cluster programming	NV-RAM			
22		Cluster programming	NV-RAM			
23		Cluster programming	NV-RAM			
24		Cluster programming	NV-RAM			

X18

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Door open signal	Drivers door jamb switch	Ground		
2		Not used				

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3		Not used				
4		Not used				
5	E	Door open signal (M5)	Rear door jamb switches	Ground		
6	M	Module ground	Ground	Ground		
7		Data line	Instrument cluster, on-board computer and radio			
8	E	Terminal 30 power	Fuse	approx. 12 V		
9	A	Data line	Instrument cluster			
10	E	Data line	Lamp control module			
11	E	Data line	Lamp control module			
12	E	Terminal R power	Fuse			
13	A	Data line	Instrument cluster			
14		Not used				
15		Not used				
16		Not used				
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
25	E	Data line	Instrument cluster, on-board computer, lamp control module and radio			
26	E	Oil level signal	Oil level sensor			

X19

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	M E	Ground, 525i/535i	Ground Wheel camber control unit	Ground		
2	M	Ground, control unit	Ground	Ground		
3	E	Washer fluid level signal	Washer fluid level switch	Ground		
4	E	Coolant level signal	Coolant level switch	Ground		
5	M E	Ground, without EGS EGS fault signal	Ground EGS control unit	Ground		
6		Not used				
7	E	Brake pedal status	Brake light switch	Ground		
8	E	Oil level signal	Oil level sensor	Ground		
9	M	Ground, control unit	Ground	Ground		
10	E	Ignition switch status	Ignition switch	Ground		
11	E	Seat belt status	Drivers seat belt switch	Ground		
12		Not used				
13		Not used				
14	E	Data line	Lamp control module			
15		Not used				
16		Not used				

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
17		Not used				
18		Not used				
19		Lift gate open warning light	Lift gate open switch			
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				
25		Light switch ON signal	Lamp control module			
26	E	Door open signal (M5)	Passengers door jamb switch	Ground		

X271

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	E	Fuel level warning signal	Fuel tank sensor	Ground		
3		Not used				
4	E	Fuel level signal	Fuel tank sensor			
5		Not used				
6		Not used				
7	E	Park brake indicator control	Park brake switch	Ground		
8	E	Vehicle speed input (+)	Vehicle speed sensor			
9		Not used				
10	E	Vehicle speed input (-)	Vehicle speed sensor			

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
11		Not used				
12		Not used				

X502

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Fog light indicator control	Lamp control module	approx. 12 V		
2	A	Sound tone signal	Chime module			
3	E	Check engine indicator control	DME control unit	Ground		
4	E	Gear range signal	Transmission range switch (L2)	approx. 12 V		
5	E	Gear range signal	Transmission range switch (L1)	approx. 12 V		
6	E	Gear range signal	Transmission range switch (L3)	approx. 12 V		
7		Not used				
8	E	Transmission mode signal	EGS control unit			
9	E	Transmission mode signal	EGS control unit			
10		Not used				
11	E	Gear range signal	Transmission range switch (L4)	approx. 12 V		
12		Not used				
13		Not used				
14	E	Instrument illumination power	Dimmer			
15		Not used				
16	E	EML fault indicator control	EML control unit			

INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
17	E	EML fault indicator control	EML control unit			
18	A	Vehicle speed signal	On-board computer, general module, radio, IHKR control unit, servotronic control unit, EML control unit, DME control unit, cruise control module			
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23	A	Check control reset signal	On-board computer			
24		Not used				
25	E	Left turn indicator control	Hazard flasher relay			
26	E	Right turn indicator control	Hazard flasher relay			

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

INDICATORS

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

INDICATORS

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) INDICATORS

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

INDICATORS

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

525i, 535i

GAUGES

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GAUGES

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GAUGES

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

SPEED SIGNAL

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GAUGES

6200.0-06
C
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
15
EGS 4HP-22 11
EGS A4S 310R 9
X8500
.5 WS/SW
8
X506
.5 WS/SW
.5 WS/SW
.5 WS/SW
X1417
.5 WS/SW
WITH EGS
26
X15
WITHOUT EGS
525I, 535I
M5
.5 WS/SW
X228
.75 WS/SW
.5 WS/SW
525I, 535I
M5
24
X20
.5 WS/SW
525I 17
32
X6000
A6000
ENGINE CONTROL
MODULE (DME)
15
31
A6000w
ENGINE CONTROL
MODULE
(M1.2, S38)
.5 SW/RT/GE
N4
ON-BOARD
COMPUTER
15
R
R
11
26
12
X501
.5 SW/RT/GE
.5 BR/VI
26
25
X251
.5 BR/VI
.5 SW/
RT/GE
.5 BR/VI
10
11
X260
.5 SW/RT/GE
.5 BR/VI
2
3
X638
B6
FUEL LEVEL
SENSOR
1
2
1
X638
GROUND
DISTRIBUTION
0670.4
X496

EGS A4S 310R
EGS 4HP-22/24

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

.75 BR/SW
X191
.5 BR/SW
.5 BR/SW
.5 BR/SW
.5 BL/SW
11
6
4
5
X502
A2
INSTRUMENT
CLUSTER
M
A
P
R
N
D
3
2
1
9
8
X502
13
1
X17
.5 GE/WS
.5 GE/BL
.75 BR/SW
.5 BR/SW
.5 BR/SW
10
X20
8
X55
25
X22
K1
STARTER RELAY
A8
CRUISE CONTROL
MODULE
(TEMPOMAT)
7
6
X506
ELECTRONIC
TRANSMISSION
CONTROL
(EGS 4HP-22)
2460.0
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A4S 310R)
2460.2
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
.5 BR/SW
525i 65
535i 42
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
X1160

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

525i, 535i

CHECK CONTROL

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

BMW 5

DATA LINK

N4
ON-BOARD
COMPUTER
15
15
15
.5 WS/BR
X572
.5 WS/BR
2
X501
.5 BL/BR/GE
.5 WS/BR
.5 BL/BR/GE
.5 BL/BR/GE
4
.5 BL/BR/GE
X547
X571
X34
X193
.5 BL/BR/GE
.5 WS/BR
.5 WS/BR
.5 WS/BR
.5 BL/GE
X18506
X18505
.5 WS/BR
.5 BL/GE
X18504
.5 BL/GE
.5 WS/BR
X18503
.5 WS/BR
.5 BL/BR/GE
X18126
N9
RADIO
A192
TELEPHONE
INTERFACE
US
17
.5 WS/BR
X15
X192
A3
LAMP CONTROL
MODULE
15
23
X12
.5 BL/BR/GE
.5 WS/BR
7
25
X18
A4
CHECK CONTROL
MODULE
31
31

CLOCK

WITHOUT ON-BOARD COMPUTER

LIGHT SWITCH DETAILS

.75 GR/SW
.5 GR/SW
X391
X706
E45y
CASSETTE
BOX LIGHT
GROUND
DISTRIBUTION
0670.4
X496
X275
X337
X269
NOT
USED
X461
X386
E31
REAR
CIGAR LIGHTER
LIGHT
X13024
X279
X272
X643
S38
SUNROOF SWITCH
X255
A1
GENERAL MODULE
X381
E35
DRIVER'S
MAKEUP MIRROR
LIGHT
.5 BR/SW
X401
S77
DRIVER'S
MAKEUP MIRROR
SWITCH
X416
X493
X841
M5
X651
S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH
X680
S93
DRIVER'S
THIGH SUPPORT
SWITCH
X845
X652
NOT IN U.S.
S52
DRIVER'S SEAT
LUMBAR SWITCH
.5 BR
X658
S54
PASSENGER'S
SEAT,
SEAT HEATER
SWITCH
X659
S55
PASSENGER'S
SEAT LUMBAR
SUPPORT SWITCH
X681
S94
PASSENGER'S
THIGH SUPPORT
SWITCH
X382
E36
PASSENGER'S
MAKEUP MIRROR
LIGHT
X417
.5 BR/SW
X402
S78
PASSENGER'S
MAKEUP MIRROR
SWITCH
X491
X495
X492

LIGHT SWITCH DETAILS

LIGHT SWITCH DETAILS

LIGHT SWITCH DETAILS

CDN
HOT IN RUN AND START
F3
7.5A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
.75 GE
9 X32
4 X32
.75 GE/GR
.75 GE
S7
COMBINATION
SWITCH
7) NORMAL
8) FLASH
9) HIGH BEAM
5 X32
.75 WS
X1159
.75 WS
.5 WS
3 X65
N17
CRASH CONTROL
MODULE
22 X16
A2
INSTRUMENT
CLUSTER
9 X65
.75 GE/GR
1 X12
A3
LAMP CONTROL
MODULE
.75 GR/SW
X198
.5 GR/SW
.5 GR/SW
.75 GR/SW
5 X35
.5 GR/SW
2.5 GR/SW
.75 GR/SW
3 X517
N3
DIMMER
8 X15
25 X19
A4
CHECK CONTROL
MODULE
12 X18155
A67w
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
(IHKR/F3)
.75 GR/SW
14 X12
A3
LAMP CONTROL
MODULE
4
2 X517
X579
2.5 GR/RT
.75 GR/SW
.5 GR/SW
.5 GR/SW
1 X521
S6
ASC SWITCH
7 X251
2 X532
E29
FRONT
CIGAR LIGHTER
LIGHT
4 X521
GROUND
DISTRIBUTION
0670.4
.75 GR/SW
1 X532
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
6300.0-07
6300.0-06
X491

LIGHT SWITCH DETAILS

LIGHT SWITCH DETAILS

LIGHT SWITCH DETAILS

HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
HOT IN ACCY, RUN AND START
HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
F15 7.5A
F7 15A
F1 15A
F15 7.5A
X2
F2 7.5A
F3 7.5A
F4 7.5A
F5 10A
6301 0 00 6301 0 03 6301 0 01 6301 0 04 6301 0 02 6301 0 05
P90 FRONT POWER DISTRIBUTION BOX
6301 0 01 S8 LIGHT SWITCH
6301 0 04 S8 LIGHT SWITCH
6301 0 07 A4 CHECK CONTROL MODULE
6301 0 07 N4 ON BOARD COMPUTER
6301 0 07 A2 INSTRUMENT CLUSTER
6301 0 07 A4 CHECK CONTROL MODULE
6301 0 01 S7 COMBINATION SWITCH
6301 0 01 S10 FOG LIGHT SWITCH
6301 0 00 S30 BRAKE LIGHT SWITCH
1 2
6301 0 01 A2 INSTRUMENT CLUSTER
6301 0 01 N17 CRASH CONTROL MODULE
6 17 12 6 2 1 3 18 26 28 X12
7 27 14 4 5 25 23 X12
A3 LAMP CONTROL MODULE
20 21 22 11 10 16 32 X12
13 9 15 8 29 31 30 24 X12
F13 7.5A
F14 7.5A
F10 7.5A
F11 7.5A
6301 0 02 6301 0 03 P90 FRONT POWER DISTRIBUTION BOX
6301 0 03 E27 RIGHT FOG LIGHT
6301 0 03 E26 LEFT FOG LIGHT
6301 0 02 E12 RIGHT HIGH BEAM LIGHT
6301 0 03 E13 LEFT LOW BEAM LIGHT
6301 0 03 E14 RIGHT LOW BEAM LIGHT
6301 0 05 E19 RIGHT PARK LIGHT
6301 0 05 E15 LEFT PARK LIGHT
6301 0 02 E11 LEFT HIGH BEAM LIGHT
E22 RIGHT FRONT MARKER LIGHT
E71 RIGHT REAR SIDE MARKER LIGHT
E21 LEFT FRONT MARKER LIGHT
E70 LEFT REAR SIDE MARKER LIGHT
6301 0 00 H34 HIGH LEVEL STOP LIGHT
6301 0 00 6301 0 05 E17 RIGHT REAR LIGHT ASSEMBLY
H30 RIGHT TAIL LIGHT
H31 RIGHT BRAKE LIGHT
6301 0 04 E43 LEFT LICENSE PLATE LIGHT
6301 0 04 E44 RIGHT LICENSE PLATE LIGHT
6301 0 00 6301 0 05 E16 LEFT REAR LIGHT ASSEMBLY
H24 LEFT BRAKE LIGHT
H25 LEFT TAIL LIGHT

Pin Assignments

X12

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	High beam signal	Crash control unit	approx. 3.5 V–5 V approx. 0 V	ON OFF	
2	E	LKM voltage supply	Power distribution box	approx. 12 V		
3	E	Headlights signal	Light switch	approx. 3.5 V–5 V approx. 0 V	ON OFF	
4	A	Data link to CCM	Check control module			
5	A	Data link to CCM	Check control module			
6	E	Terminal R power	Power distribution box	approx. 12 V		
7	E	Right tail light signal	Light switch	approx.12 V approx. 0 V	ON OFF	
8	A	Right tail light power	Right rear light assembly	approx. 12 V approx. 0 V	ON OFF	
9	A	Left tail light power	Left rear light assembly	approx. 12 V approx. 0 V	ON OFF	
10	A	Right park light power	Right front light assembly	approx. 12 V approx. 0 V	ON OFF	
11	A	Left park light power	Left front light assembly	approx. 12 V approx. 0 V	ON OFF	
12	E	Brake pedal status	Brake light switch	approx. 12 V approx. 0 V	ON OFF	

LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	A	Left brake light power	Left rear light assembly	approx. 12 V approx. 0 V	ON OFF	
14	E	Park lights signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
15	A	High level stop light power	High level stop light	approx. 12 V approx. 0 V	ON OFF	
16	A	Left fog light power	Left fog light	approx. 12 V approx. 0 V	ON OFF	
17	E	Fog lights power	Power distribution box	approx. 12 V		
18	E	Fog light signal	Fog light switch	approx. 12 V approx. 0 V	ON OFF	
19		Not used				
20	A	High beam light power	Fuses/Power distribution box	approx. 12 V approx. 0 V	ON OFF	
21	A	Left low beam power	Left low beam light	approx. 12 V approx. 0 V	ON OFF	
22	A	Right low beam power	Right low beam light	approx. 12 V approx. 0 V	ON OFF	
23	E	Data link to CCM	Check control module			
24	M	Ground, control unit	Body ground	approx. 0 V	None	
25	E	Data link to CCM	Check control module			
26	E	Left tail light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
27	E	Right park light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
28	E	Left park light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	

LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29	A	Right brake light power	Right brake light	approx. 12 V approx. 0 V	ON OFF	
30	A	Right license plate light power	Right license plate light	approx. 12 V approx. 0 V	ON OFF	
31	A	Left license plate light power	Left license plate light	approx. 12 V approx. 0 V	ON OFF	
32	A	Right fog light power	Right fog light	approx. 12 V approx. 0 V	ON OFF	

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

LAMP MONITOR (LKM)

HEADLIGHTS/ FOG LIGHTS

HEADLIGHTS/ FOG LIGHTS

HEADLIGHTS/ FOG LIGHTS

TURN/HAZARD LIGHTS

HOT AT ALL TIMES
P90
F6
15A
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
1 BL/GN
6313.0-03
6313.0-02
X184
.75 WS
1 BL/GN
.5 WS/BL/GE
X65
P90
FRONT POWER
DISTRIBUTION
BOX
N17
CRASH CONTROL
MODULE
.75 GE/GR
.5 BL/GN/GE
X13
NOT
USED
GROUND
DISTRIBUTION
0670.4
X175
.5 BR/BL
.5 BR/SW/GE
X13
.5 BR/SW/GE
X253
A1
GENERAL MODULE
X15
LIGHT SWITCH
DETAILS
6300.0
.5 BR/BL
.5 BL/GN
.5 GR/RT
X516
S18
HAZARD SWITCH
1) OFF
2) ON
.5 BR/SW
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
X388
GROUND
DISTRIBUTION
0670.4
X496
.5 BL/GN
X518
GROUND
DISTRIBUTION
0670.4
X491

TURN/HAZARD LIGHTS

TURN/HAZARD LIGHTS

PARK/TAIL LIGHTS

PARK/TAIL LIGHTS

FRONT AND REAR PARK LIGHTS

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

LICENSE PLATE LIGHTS

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

TRUNK LIGHTS

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

525it

TRUNK LIGHTS

BACK UP LIGHTS

LICENSE PLATE/
LUGGAGE
COMPARTMENT
LIGHTS
6320.0
.5 RT/WS
1 BL/GE
525It 1
3
2
X329
E46
LEFT TRUNK
LIGHT ASSEMBLY
H90
LEFT
TRUNK LIGHT
H27
LEFT
BACK UP LIGHT
4
X329
525It 3
1 BR
525It
525I, 535I, M5
1 BR
GROUND
DISTRIBUTION
0670.4
X493
GROUND
DISTRIBUTION
0670.4
X493
LICENSE PLATE/
LUGGAGE
COMPARTMENT
LIGHTS
6320.0
.5 RT/WS
1 BL/GE
NOT
USED
3
1
525It 1
2
X328
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H91
RIGHT
TRUNK LIGHT
H28
RIGHT
BACK UP LIGHT
4
X328
525It 3
1 BR
525I, 535I, M5
525It
1 BR
GROUND
DISTRIBUTION
0670.4
X498

BRAKE LIGHTS

ZKE INTERIOR LIGHTS CONTROL (IB)

INPUT DETAILS

ZKE INTERIOR LIGHTS CONTROL (IB)

OUTPUT DETAILS

INTERIOR ACCESSORIES

INTERIOR ACCESSORIES

CRASH CONTROL MODULE

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F6
15A
FUSE DETAILS
0670.3
.75 GE
3
X12
A3
LAMP CONTROL
MODULE
1 BL/GN
LIGHT SWITCH
DETAILS
8300.0
.75 WS
3
4
.5 BL/GN/GE
2
6
NOT
USED
X13
8
.5 WS/BL/GE
5
X85
N17
CRASH CONTROL
MODULE
9
.75 GE/GR
A
6350.0-02
8
TURN/HAZARD
LIGHTS
6313.0
7
.5 BR/BL
15
X15
LIGHT SWITCH
DETAILS
8300.0
.5 BL/GN
5
.5 GR/RT
4
.5 BR/BL
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
3
X516
GROUND
DISTRIBUTION
0670.4
X175
X491
1
X85
.5 BR/SW/GE
7
X13
.5 BR/SW/GE
9
X253
A1
GENERAL MODULE
30
31
23
X253
.5 BR/SW
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
1
X388
GROUND
DISTRIBUTION
0670.4
X496

CRASH CONTROL MODULE

PARK VENTILATION WITH IHKR/F3

REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER

REAR WINDOW ANTENNA

REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY

11/92 6450 5 1992
11/92 6450 5 1992

Pin Assignments

A = 18155 26 Pins, white
B = 18156 26 Pins, black
C = 18157 26 Pins, blue

X18155

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	E	Right heater temperature	Right heater sensor	approx. 0.7 V to 4.3 V	0° C to 90° C	approx. 5 V with temperature sensor disconnected
3	E	Left heater temperature	Left heater sensor	approx. 0.7 V to 4.3 V	0° C to 90° C	approx. 5 V with temperature sensor disconnected
4	E	Outside temperature	Outside temperature sensor	approx. 0.5 V to 4.5 V	-40° C to 40° C	approx. 5 V with temperature sensor disconnected
5	E	Evaporator temperature	Evaporator sensor	approx. 1.6 V to 3.4 V	-5° C to 26° C	approx. 5 V with temperature sensor disconnected
6	E	Nominal mixing value	Temp. dist. pot.	approx. 1.6 V to 2.7 V	approx. 0% to 100%	
7	E	Independent ventilation	Relay box	approx. 0 V approx. 11 V	ON OFF	

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	E	Road speed signal	Instrument cluster	Frequency (square-wave)	km/h	
9		Not used				
10	E	Independent heating	Relay box	approx. 0 V approx. 11 V	ON OFF	
11		Not used				
12	E	Terminal 58K	Light switches	approx. 12 V		Light ON
13	A	Voltage supply for function light	Switching unit	approx. 10 V approx. 4 V approx. 6 V		Light OFF Light ON, function light On Light ON, function light OFF
14	A	Plus for mixing air control	Temp. dist. pot.	approx. 4.7 V		
15	A	Ground for control wheels and interior sensors	Control switch	approx. 0 V		
16	A	Ground for temperature sensors	Temperature sensors	approx. 0 V		
17	A	Ground for mixing air control	Temp. dist. pot.	approx. 0 V		
18	E	Ground for illumination and switches	Switching unit			
19		Not used				
20	E	Push button for air conditioning	Switching unit	approx. 0 V approx. 10 V	ON OFF	
21	E	Push button for air recirculation	Switching unit	approx. 0 V approx. 10 V	ON OFF	
22	E	Push button for rear window defogger	Switching unit	approx. 0 V approx. 10 V	ON OFF	
23	A	Function light, air conditioning	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
24	A	Function light, rear window defogger	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)
25	A	Function light, air recirculation	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)
26	A	Function light, air recirculation control	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)

X18156

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Ground for electronics	Ground	0 V		
2		Not used				
3	E	Interior temperature sensor	Control switch	approx. 1.7 V to 3.4 V	10° C to 40° C	approx. 5 V with temperature sensor disconnected
4	E	Nominal air flow value	Control switch	approx. 0.6 V–4 V	OFF (approx. 100%)	
5	E	Nominal temperature value, left	Control switch	approx. 0.5 V to 4.2 V	16° C to 32° C	
6	E	Nominal temperature value, right	Control switch	approx. 0.5 V to 4.2 V	16° C to 32° C	
7		Not used				
8		Not used				
9	A	Auxiliary fan signal	DME control unit	approx. 0 V approx. 12 V	ON OFF	
10	E	Ground for electronics	Ground	0 V		
11		Not used				
12	E	Plus voltage supply for control unit	Connector terminal 30	approx. 12 V		

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	E	Plus voltage supply for control unit	Connector terminal 30	approx. 12 V		
14		Not used				
15	A	Right water valve activation	Control switch	Frequency (square-wave voltage)	0% to 100%	At 0% approx. 0 V at 100% approx. 12 V
16		Not used				
17		Not used				
18	E	Terminal 15 (independent ventilation only)		approx. 12 V		
19		Not used				
20		Not used				
21		Not used				
22	A	Left water valve activation	Control switch	Frequency (square-wave voltage)	0% to 100%	At 0% approx. 0 V at 100% approx. 12 V
23	E	Plus voltage supply for control unit	Connector terminal 15	approx. 12 V		
24		Not used				
25	E	Terminal 61	Unloader relay terminal 61	approx. 0 V approx. 12 V	OFF ON	when engine stationary when engine running
26	E	Terminal 30h	Starter	approx. 12 V		when starting

X18157

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Plus for flap motors	All flap motors	approx. 11 V		
2	A	Plus for flap motors	All flap motors	approx. 11 V		

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3		Not used				
4		Not used				
5		Not used				
6	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
7	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
8	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
9	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
10	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
11	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
12	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
13	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
14	A	Plus for control wheels in control switch	Control switch	approx. 5 V		

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	A	Diagnosis RxD	Diagnostic connector	Frequency		
16	E	Diagnosis TxD	Diagnostic connector	Frequency		
17		Not used				
18	A	Switching unit sensor fan activation	Control switch	approx. 0 V approx. 12 V		At ignition ON approx. 3 minutes after ignition OFF
19	A	Auxiliary water pump activation	Relay, auxiliary water pump	Ground		
20	A	Rear window defogger activation	Rear window defogger relay	approx. 0 V approx. 12 V	ON OFF	
21		Not used				
22	A	Activation, A/C compressor	DME control unit	approx. 0 V approx. 12 V	ON OFF	
23	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
24	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
25	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
26	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

POWER

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

TEMPERATURE CONTROLS

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

AIR DELIVERY

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

COMPRESSOR CONTROLS

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

COMPRESSOR CONTROL FOR M5

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

COMPRESSOR CONTROL FOR M5

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

AUXILIARY WATER PUMP

INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

AUXILIARY FAN

AUXILIARY FAN

RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

HIFI, 10-SPEAKER SYSTEM

RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

RADIO/HIFI

HIFI WITH CD, 10-SPEAKER SYSTEM

RADIO PROVISIONS

CELLULAR TELEPHONE (PROVISIONS) WITH INTERFACE

ON-BOARD COMPUTER (BCIV) 6561.0
HOT IN ACCY, RUN AND START
N9 RADIO
P90 FRONT POWER DISTRIBUTION BOX
F16 15A
FUSE DETAILS 0670.3
.5 BL/BR/GE
.5 WS/BR
X547
X16126
.5 BL/GE
X18504
X18505
X18506
X18503
X18501
.2 GR/WS
.2 GN
.2 BR
.2 GE
.2 GR
.2 RT
.2 RT/WS
.2 SW
A192 TELEPHONE INTERFACE US
X18502
X1404
.5 SW/GN/GE
X1132
.5 GE/RT
X15
X32
.5 GE/RT/WS
X501
.2 WS
.2 BL/VI
.5 BR
.2 BL
S5 WIPER/WASHER SWITCH
6) INTENSIVE WASH
7) SINGLE WIPE (REAR WINDOW)
S7 COMBINATION SWITCH
11) DIAL TELEPHONE NUMBER
12) OFF
N4 ON-BOARD COMPUTER
U4 TELEPHONE HANDSET
X295
GROUND DISTRIBUTION 0670.4
X495
X490
X165

CELLULAR TELEPHONE (PROVISIONS)
WITHOUT INTERFACE

CRUISE CONTROL (TEMPOMAT)

.75 BR/SW
.5 Vi/GE
.5 BL/WS
.5 BL/GN
.5 BL/GR
.5 BL/SW
X191
INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) 6200.0
.5 BR/SW
25
26
20
22
21
24
X22
A8 CRUISE CONTROL MODULE (TEMPOMAT)
R
31
18
X22
.5 SW/WS
X188
.5 SW/WS
29
X15
.5 SW/WS
X581
INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) 6200.0
.5 SW/WS
18
X502
2
A2 INSTRUMENT CLUSTER
2) VEHICLE SPEED OUTPUT

CRUISE CONTROL (TEMPOMAT)

CRUISE CONTROL (TEMPOMAT)

ANTI-THEFT SYSTEM (ALPINE)

ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

ON-BOARD COMPUTER (BCIV)

ON-BOARD COMPUTER (BCIV)

ANTI-THEFT HORN, PARK VENTILATION

ON-BOARD COMPUTER (BCIV)

FUEL GAUGE, CODE

ON-BOARD COMPUTER (BCIV)

CHIME MODULE

ON-BOARD COMPUTER (BCIV)

DATA LINK

ON-BOARD COMPUTER (BCIV)

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A1	GENERAL MODULE	In Rear Power Distribution Box		
A2	INSTRUMENT CLUSTER	LH side of dash		
A3	LAMP CONTROL MODULE	In Front Power Distribution Box		
A4	CHECK CONTROL MODULE	In Front Power Distribution Box		
A5	RELAY MODULE	In Rear Power Distribution Box		
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Below LH side of dash		
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	LH footwell		19-3
A17	SERVOTRONIC CONTROL MODULE	Behind LH footwell trim		18-2
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment		32-1
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment		32-2
A21	SEAT/MIRROR MEMORY CONTROL MODULE	Underside of LH front seat		24-1
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	RH side of luggage compartment		33-2
A99	DOUBLE PANEL POWER SUNROOF CONTROL MODULE	In roof panel		31-1
A22z	ELECTROCHROMIC REAR VIEW MIRROR	Center of windshield header		
A552	A/C COMPRESSOR CONTROL MODULE	RH side of LH footwell behind LH footwell trim		18-1
A87w	INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)	LH side of RH footwell		21-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
A6000	ENGINE CONTROL MODULE (DME)	In E-Box		
B1	RIGHT FRONT SPEED SENSOR – ABS	Behind RH front wheel		
B2	LEFT FRONT SPEED SENSOR – ABS	Behind LH front wheel	06-1	
B3	RIGHT REAR SPEED SENSOR – ABS	Behind RH rear wheel	06-2	
B4	LEFT REAR SPEED SENSOR – ABS	Behind LH rear wheel		
B6	FUEL LEVEL SENSOR	In RH side of luggage compartment	32-3	
B10	VEHICLE SPEED SENSOR	Under rear of car	07-2	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	LH side of IHKR/F3 Plenum	21-2	
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	LH side of RH footwell	21-3	
B13	OUTSIDE TEMPERATURE SENSOR	Rear LH side of engine compartment	17-2	
B14	EVAPORATOR TEMPERATURE SENSOR	LH side of IHKR/F3 Plenum	21-2	
B15	ELECTRO- HYDRAULIC CONVERTER (SERVOTRONIC)	Behind LH front wheel		
B16	LEFT FRONT BRAKE PAD SENSOR	Behind LH front wheel	06-1	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel	06-2	
B18	BRAKE FLUID LEVEL SWITCH	LH side of engine compartment	10-3	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Under LH front bumper	06-3	
B55	DOUBLE PANEL POWER SUN ROOF SENSOR II	In roof panel	31-1	
B56	INTERIOR TEMPERATURE SENSOR	Middle of heater control panel		
B900	JUMPER PLUG	In Front Power Distribution Box	08-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B6200	HEATED OXYGEN SENSOR	On catalytic converter		
B6201	CYLINDER IDENTIFICATION SENSOR	Top front of engine	11-3	
B6201	CYLINDER IDENTIFICATION SENSOR	RH side of engine (M5)	13-1	
B6202	CRANKSHAFT POSITION/RPM SENSOR	Top front of engine	11-3	
B6202	CRANKSHAFT POSITION/RPM SENSOR	RH side of engine (M5)	13-1	
B6203	CRANKSHAFT POSITION/RPM SENSOR	Front of engine		
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	Front of engine	12-1	
B6205	INTAKE AIR TEMPERATURE SENSOR	Front of engine on coolant inlet	14-3	
B6206	MASS AIR FLOW SENSOR	RH front of engine		
B6209	HALL EFFECT CAMSHAFT SENSOR	Top front of engine		
B6217	HOT WIRE AIR MASS METER	Top front of engine		
B6230	OIL LEVEL SENSOR	Underside of oil pan	07-1	
B6231	OIL PRESSURE SWITCH	Rear of engine	11-1	
B6231	OIL PRESSURE SWITCH	Rear of engine below intake manifold	11-2	
B6231	OIL PRESSURE SWITCH	Front of engine	12-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-3	
B6233	VOLUME AIR FLOW SENSOR	Top center of engine	14-1	
B6234	ENGINE COOLANT TEMP. SENSOR (EML)	Front of engine	12-3	

COMPONENT LOCATION CHART

COMPONENT

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B6235	TEMPERATURE SWITCH	In E-Box	15-1	
B6235	TEMPERATURE SWITCH	In E-Box	15-2	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-2	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-3	
B6238	OIL TEMPERATURE SENSOR	Rear LH side of engine compartment		
B9508	PRESSURE SWITCH	Front RH side of engine compartment	16-2	
C100	CONTACT RING	Top of steering column	22-1	
C900	SUPPRESSION FILTER	In upper RH C-pillar	30-2	
D100	DATA LINK CONNECTOR	Rear LH side of engine compartment	14-1	
E9	REAR DEFOGGER I	In rear window		
E10	REAR DEFOGGER/ANTENNA	In rear window		
E13	LEFT LOW BEAM LIGHT	Front of car left		
E14	RIGHT LOW BEAM LIGHT	Front of car right		
E15	LEFT PARK LIGHT	Front of car left		
E16	LEFT REAR LIGHT ASSEMBLY	Rear of car left		
E17	RIGHT REAR LIGHT ASSEMBLY	Rear of car right		
E19	RIGHT PARK LIGHT	Front of car right		
E26	LEFT FOG LIGHT	Front of car left		
E27	RIGHT FOG LIGHT	Front of car right		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
E28	FRONT CIGAR LIGHTER	Center console		
E29	FRONT CIGAR LIGHTER LIGHT	Center of dash below front of console		
E30	REAR CIGAR LIGHTER	Center console		
E31	REAR CIGAR LIGHTER LIGHT	Center console		
E33	TRUNK LID LIGHT	Underside of trunk lid		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Center of windshield header		
E35	DRIVER'S MAKEUP MIRROR LIGHT	Center of windshield header		
E36	PASSENGER'S MAKEUP MIRROR LIGHT	Center of windshield header		
E39	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar		30-3
E40	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar		
E41	DASH LIGHT	Center of dash		
E42	GLOVE BOX LIGHT	RH side of glove box above		
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid		
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid		
E46	LEFT TRUNK LIGHT ASSEMBLY	Underside of trunk lid		
E47	RIGHT TRUNK LIGHT ASSEMBLY	Underside of trunk lid		
E48	DOOR LOCK HEATER	LH front door in door at key lock assembly		
E51	LEFT WASHER JET HEATER	On underside of engine hood		17-3
E52	RIGHT WASHER JET HEATER	On underside of engine hood		17-3
E56	DRIVER'S SEATBACK HEATER	In lower LH front seatback		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
E57	DRIVER'S SEAT HEATER	Underside of LH front seat		
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	In lower RH front seatback		
E45y	CASSETTE BOX LIGHT	Center console		
E9000	RIGHT FRONT LIGHT ASSEMBLY	Right		
E9001	LEFT FRONT LIGHT ASSEMBLY	Left		
E9500	TRANSMISSION RANGE SELECTOR LIGHT	Center console near gearshift lever		
F0	FUSIBLE LINK	Below RH side of rear seat near battery	29-3	
F52	FUSE (10A)	In LH auxiliary relay box, engine compartment	09-3	
F56	AUTOMATIC CUT-OUT	In LH auxiliary relay box, engine compartment	09-3	
G1	BATTERY	Below RH side of rear seat	29-3	
G5	DRIVER'S AIR BAG GENERATOR	Top of steering column	22-1	
G6509	GENERATOR	In the engine compartment		
H2	LEFT HORN	Front LH side of engine compartment	16-1	
H3	RIGHT HORN	Front RH side of engine compartment	16-1	
H4	RIGHT FRONT TURN LIGHT	Front of car		
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	Front of car		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of car		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of car		
H10	CHIME MODULE	LH footwell	20-2	
H1w	ANTI-THEFT HORN (ALPINE)	Rear LH side of engine compartment	17-2	
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H26	LEFT REAR FOG LIGHT	LH side of body rear end		
H27	LEFT BACK UP LIGHT	LH side of body rear end		
H28	RIGHT BACK UP LIGHT	RH side of body rear end		
H29	RIGHT REAR FOG LIGHT	RH side of body rear end		
H30	RIGHT TAIL LIGHT	RH side of body rear end		
H31	RIGHT BRAKE LIGHT	RH side of body rear end		
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf		
H45	RIGHT REAR SPEAKER	At back of rear window shelf		
H46	LEFT REAR SPEAKER	At back of rear window shelf		
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	Behind RH footwell speaker grille		
H52	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf		
H53	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf		
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door		
H55	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
H56	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	Behind LH footwell speaker grille		
H59	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door		
H90	LEFT TRUNK LIGHT	In LH forward side of luggage compartment		
K1	STARTER RELAY	In Front Power Distribution Box		08-1
K2	HORN RELAY	In Front Power Distribution Box		08-1
K3	UNLOADER RELAY, TERMINAL R	In Front Power Distribution Box		08-1
K4	BLOWER RELAY	In Front Power Distribution Box		08-1
K5	WASHER PUMP RELAY	In Front Power Distribution Box		07-3
K8	AUXILIARY WATER PUMP RELAY	In Front Power Distribution Box		08-1
K9	UNLOADER RELAY, TERMINAL 15	In Front Power Distribution Box		07-3
K10	ABS RELAY	In Front Power Distribution Box		08-2
K11	WIPER RELAY	In Rear Power Distribution Box		28-3
K13	REAR DEFOGGER RELAY	In Rear Power Distribution Box		28-3
K15	ELECTRIC POWER PROTECTION RELAY	In Rear Power Distribution Box		28-3
K16	HAZARD FLASHER RELAY	In Front Power Distribution Box		08-2
K19	COMPRESSOR CONTROL RELAY	In Front Power Distribution Box		07-3
K21	NORMAL SPEED RELAY	In LH auxiliary relay box, engine compartment		09-3
K22	HIGH SPEED RELAY	In Front Power Distribution Box		09-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	Below LH side of dash near hood release lever		
K26	LEFT PARK LIGHT RELAY	Below LH side of dash near hood release lever		
K31	CIGAR LIGHTER RELAY	Rear LH side of engine compartment in Front Power Distribution Box		
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box		
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box		
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box		
K52	WIPER/WASHER RELAY	In LH forward side of luggage compartment		
K53	WIPER MOTOR RELAY	In LH forward side of luggage compartment		
K61	UNLOADER RELAY, TERMINAL 61	In Front Power Distribution Box	08-2	
K62	PARK HEATING RELAY	Below LH side of dash		
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	RH side of luggage compartment	33-2	
K86	WIDE OPEN THROTTLE CUT-OFF RELAY	Behind LH footwell trim	18-1	
K87	ELECTRIC STEERING COLUMN ADJUSTMENT RELAY	Below LH side of dash		
K89	REAR WINDOW WASHER RELAY	RH side of luggage compartment	33-2	
K90	WINDOW MOTOR RELAY	RH side of luggage compartment	33-2	
K91	ON-BOARD COMPUTER HORN RELAY	Below LH side of rear seat	29-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
K92	REAR WINDOW WIPER RELAY II	RH side of luggage compartment	33-2	
K91w	REAR WINDOW WIPER RELAY I	RH side of luggage compartment	33-2	
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	15-1	
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	15-2	
K6301	CYL. 1-6 FUEL PUMP RELAY	In E-Box	15-1	
K6301	CYL. 1-6 FUEL PUMP RELAY	In E-Box	15-2	
K6302	FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box		
K6303	OXYGEN SENSOR RELAY	In E-Box	15-1	
M2	FUEL PUMP	In RH side of luggage compartment	32-3	
M3	WIPER MOTOR	Behind LH fresh air cowl	09-1	
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	16-3	
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment on washer fluid reservoir		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir		
M9	AUXILIARY FAN MOTOR	Behind front grille	16-1	
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door	27-1	
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH front door	27-3	
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door		
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door		
M16	GAS FILLER LOCK MOTOR	In RH side of luggage compartment	33-1	
M17	TRUNK LOCK MOTOR	Underside of trunk lid	31-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
M20 ...	LEFT REAR WINDOW MOTOR	In lower LH rear door		
M21 ...	DRIVER'S WINDOW MOTOR	In lower LH front door	27-2	
M22 ...	RIGHT REAR WINDOW MOTOR	In lower RH rear door		
M23 ...	PASSENGER'S WINDOW MOTOR	In lower RH front door	28-1	
M24 ...	SUNROOF MOTOR	Center of windshield header near rear view mirror	23-3	
M25 ...	CRUISE CONTROL ACTUATOR (TEMPOMAT)	LH side of engine compartment	09-2	
M27 ...	REAR LEFT HEADREST MOTOR	In upper LH front seatback		
M28 ...	REAR RIGHT HEADREST MOTOR	In upper RH front seatback		
M30 ...	BLOWER MOTOR	Rear LH side of engine compartment	17-2	
M34 ...	DASH VENT MIXING FLAP MOTOR	LH side of RH footwell	21-3	
M36 ...	FRESH AIR FLAP MOTOR	LH side of IHKR/F3 Plenum	21-2	
M40 ...	RECIRCULATION FLAP MOTOR	LH side of IHKR/F3 Plenum	21-2	
M50 ...	DRIVER'S SEAT CUSHION TILT MOTOR	Underside of LH front seat	25-2	
M51 ...	DRIVER'S SEAT MOVEMENT MOTOR	Underside of LH front seat	25-2	
M52 ...	DRIVER'S SEAT HEIGHT MOTOR	Underside of LH front seat	25-2	
M53 ...	DRIVER'S SEATBACK RECLINER MOTOR	Underside of LH front seat	25-2	
M54 ...	DRIVER'S HEADREST MOTOR	In upper LH front seatback	28-2	
M55 ...	DRIVER'S SEAT LUMBAR SUPPORT MOTOR	Under LH front seat		
M56 ...	PASSENGER'S SEAT LUMBAR SUPPORT MOTOR	Under RH front seat		
M57 ...	PASSENGER'S SEAT HEADREST MOTOR	In upper RH front seatback		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
M58	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat		
M59	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat		
M60	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat		
M61	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat		
M65	DRIVER'S THIGH SUPPORT MOTOR	Underside of LH front seat	25-2	
M66	PASSENGER'S THIGH SUPPORT MOTOR	Under RH front seat		
M74	SUN BLIND MOTOR	At back of rear window shelf		
M80	LEFT HEADLIGHT WIDENING MOTOR	Near LH headlight assembly		
M81	RIGHT HEADLIGHT WIDENING MOTOR	Near RH headlight assembly		
M82	STEERING COLUMN LENGTH ADJUST MOTOR	Bottom of steering column	20-3	
M87	MOTOR DRIVE I DOUBLE PANEL POWER SUNROOF	In roof panel		
M88	MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF	In roof panel	31-1	
M94	REAR WINDOW WIPER MOTOR	Rear of luggage compartment on lift gate behind trim panel		
M95	REAR WINDOW WASHER PUMP	RH side of luggage compartment	33-3	
M96	REAR WINDOW MOTOR	Rear of luggage compartment on lift gate behind trim panel	31-3	
M97	LIFT GATE MOTOR	Rear of luggage compartment on lift gate behind trim panel	31-3	
M37a	AUXILIARY WATER PUMP	Rear LH side of engine compartment	08-3	
M6133	AIR PUMP	Top front of engine	11-3	
M6350	ELECTRONIC THROTTLE ACTUATOR (EML)	Top LH side of engine	14-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
M6506	E-BOX FAN	Rear RH side of engine compartment in E-Box		
M6510	STARTER	LH side of engine compartment below intake manifold		
N1	ANTI-THEFT CONTROL MODULE (DWA)	Below LH side of rear seat inside box on interior side of RH door sill		
N3	DIMMER	LH side of dash		
N4	ON-BOARD COMPUTER	Center of dash		
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	In LH auxiliary relay box, engine compartment	09-3	
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	30-3	
N9	RADIO	Center of dash	22-3	
N17	CRASH CONTROL MODULE	In Front Power Distribution Box	08-2	
N22	CD CHANGER	In luggage compartment	32-2	
N50	CLOCK	Center of dash		
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Below RH side of rear seat		
N404	DIVERSITY	In upper LH C-pillar		
N444	FM AMPLIFIER HLO	In upper LH C-pillar		
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	14-1	
P91	REAR POWER DISTRIBUTION BOX	Below LH side of rear seat		
P92	AUXILIARY RELAY BOX	LH side of engine compartment	09-2	
P93	E-BOX	Rear RH side of engine compartment		
P95	AUXILIARY FUSE BOX	LH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
P96	AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT	Below LH side of rear seat in Rear Power Distribution Box		
R1	MIXING ACTUATOR	RH side of LH footwell		
R5	HEADREST POTENTIOMETER	In lower LH front seatback	28-2	
R6	SEAT HEIGHT POTENTIOMETER	Underside of LH front seat	24-3	
R7	SEATBACK POTENTIOMETER	Underside of LH front seat	24-3	
R8	SEAT CUSHION REAR HEIGHT POTENTIOMETER	Underside of LH front seat	24-2	
R9	SEAT CUSHION MOVEMENT POTENTIOMETER	Underside of LH front seat	24-2	
R10	PEDAL POSITION SENSOR	On rear of throttle body	21-1	
R11	BLOWER RESISTORS	LH side of IHKR/F3 Plenum	21-2	
R15	THIGH SUPPORT POTENTIOMETER	In lower LH front seatback		
R6240	RESISTOR	In the engine compartment		
R6252	ACCELERATOR PEDAL POSITION SENSOR	Top front of engine compartment		
R6253	ACCELERATOR PEDAL POSITION SENSOR	Top front of engine compartment		
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Front of gearshift selector	23-2	
S4	HORN SWITCH	Top of steering column		
S5	WIPER/WASHER SWITCH	Top of steering column		
S6	ASC SWITCH	Center of console		
S7	COMBINATION SWITCH	Top of steering column		
S8	LIGHT SWITCH	LH side of dash		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
S9	LIGHT SWITCH	LH side of dash	
S10	FOG LIGHT SWITCH	LH side of dash	
S12	MEMORY MIRRORS CONTROL SWITCH	In upper LH front door	
S13	PASSENGER'S DOOR JAMB SWITCH	Ahead of RH rear door	30-1
S14	DRIVER'S DOOR JAMB SWITCH	Ahead of LH rear door	30-1
S15	REAR RIGHT DOOR JAMB SWITCH	Rear RH door pillar	30-1
S16	LEFT REAR DOOR JAMB SWITCH	LH rear door jamb	30-1
S17	MIRROR CONTROL SWITCH	In upper LH front door	
S18	HAZARD SWITCH	Center console below	
S23	TRUNK LOCK SWITCH (DWA)	Underside of trunk lid	31-2
S27	INERTIA SWITCH	Below LH side of rear seat	29-1
S28	CRUISE CONTROL SWITCH	Top of steering column behind steering wheel	
S30	BRAKE LIGHT SWITCH	LH side of dash on brake pedal support bracket	19-1
S31	PARK BRAKE SWITCH	Below center of console	
S32	CLUTCH SWITCH	LH side of dash on clutch pedal support bracket	19-1
S36	TEMPERATURE SWITCH	RH top of radiator	15-3
S37	GLOVE BOX LIGHT SWITCH	LH side of glove box	23-1
S38	SUNROOF SWITCH	Center of windshield header near rear view mirror	23-3
S39	SUNROOF POSITION SWITCH	Center of windshield header near rear view mirror	23-3
S40	FRONT CONSOLE WINDOW SWITCH ASSEMBLY	Center console	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S41	LEFT REAR WINDOW SWITCH	In upper LH rear door		
S42	RIGHT REAR WINDOW SWITCH	In upper RH rear door		
S43	DRIVER'S WINDOW LIMIT SWITCH	In upper LH front door		
S44	PASSENGER'S WINDOW LIMIT SWITCH	In upper RH front door		
S45	LEFT REAR WINDOW LIMIT SWITCH	In upper LH rear door		
S46	RIGHT REAR WINDOW LIMIT SWITCH	In upper RH rear door		
S47	DRIVER'S DOOR LOCK SWITCH	LH front door behind door panel		
S48	DRIVER'S DOOR HANDLE SWITCH	LH front door behind door panel		
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door		
S51	DRIVER'S SEAT SEAT CONTROL SWITCH	In rear of console		
S52	DRIVER'S SEAT LUMBAR SWITCH	In rear of console		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	In rear of console		
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	In rear of console		
S55	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH	In rear of console		
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	In rear of console		
S57	MEMORY SEAT MIRRORS SWITCH	In rear of console		
S58	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle		
S61	TRUNK LID SWITCH	Underside of trunk lid left		
S63	ENGINE COOLANT LEVEL SWITCH	Top rear of engine		14-1
S63	ENGINE COOLANT LEVEL SWITCH	Top center of engine ahead of oil fill cap		14-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	16-2	
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	16-3	
S68	LEFT REAR SEAT HEATER SWITCH	In rear console		
S69	RIGHT REAR SEAT HEATER SWITCH	In rear console		
S71	LEFT FRONT IMPACT SENSOR	Ahead of LH side shock tower	09-2	
S72	RIGHT FRONT IMPACT SENSOR	RH side of engine compartment ahead of RH side shock tower		
S75	BLOWER SWITCH	Center of dash middle of heater control panel		
S76	REAR WINDOW DEFOGGER SWITCH	Center of dash middle of heater control panel		
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor		
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Under roof center panel		
S85	LEFT REAR SEAT CONTACT	Below LH side of rear seat		
S86	RIGHT REAR SEAT CONTACT	Below RH side of rear seat		
S92	BACK UP LIGHT SWITCH (MANUAL TRANSMISSION)	Below center console		
S93	DRIVER'S THIGH SUPPORT SWITCH	LH front seat left		
S94	PASSENGER'S THIGH SUPPORT SWITCH	RH front seat		
S147	REAR WINDOW OPENING SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S167	LIFT GATE LOCK SWITCH	Rear of luggage compartment on lift gate in upper LH A-pillar		
S170	REAR WINDOW LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S171	LIFT GATE LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S176	REAR WIPER/WASHER FLUID LEVEL SWITCH	RH side of luggage compartment		33-3
S198	JET HEATER THERMOSWITCH	Front LH side of engine compartment		
S21w	ENGINE HOOD SWITCH	Back of LH side shock tower		08-2
S119z	STEERING COLUMN POSITION SWITCH	Below LH side of dash		
S134w	IHKR/F3 CONTROL PANEL	RH side of LH footwell		
S135w	IHKR/F3 SWITCHING UNIT	RH side of LH footwell		
S8503	PROGRAM SWITCH	Below center console		
S8507	KICK-DOWN SWITCH	RH side of LH footwell		
S8514	TRANSMISSION CONTROL PROGRAM SELECTION SWITCH (EGS)	Below center console		
T6151	CYL. 1 IGNITION COIL	RH side of engine		13-2
T6152	CYL. 2 IGNITION COIL	RH side of engine		13-2
T6153	CYL. 3 IGNITION COIL	RH side of engine		13-2
T6154	CYL. 4 IGNITION COIL	LH side of engine		13-2
T6155	CYL. 5 IGNITION COIL	LH side of engine		13-2
T6156	CYL. 6 IGNITION COIL	LH side of engine		13-2
U4	TELEPHONE HANDSET	Below center console		
V6	UNCOUPLING DIODE	RH side of dash behind glove box		
V4y	DAYTIME RUNNING LIGHTS CODING DIODES CANADA	Behind LH side of dash center of windshield header		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1	B+ JUNCTION POINT	Below LH side of dash		
X11	CONNECTOR (35-PINS, NATURAL)	Rear RH side of engine compartment in E-Box		00-3
X12	CONNECTOR (35-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		00-2
X13	CONNECTOR (21-PINS, WHITE)	Behind LH footwell trim	18-3	01-3
X14	CONNECTOR (30-PINS, YELLOW)	Behind LH footwell trim	18-3	00-4
X15	CONNECTOR (30-PINS, WHITE)	LH footwell	20-1	00-4
X16	CONNECTOR (26-PINS, NATURAL)	Rear of A2 instrument cluster	22-2	01-1
X17	CONNECTOR (6-PINS, BROWN)	Rear of A2 instrument cluster	22-2	01-4
X18	CONNECTOR (26-PINS, BLUE)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X19	CONNECTOR (26-PINS, GREEN)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X20	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	08-3	03-4
X22	CONNECTOR (26-PINS, BLUE)	Rear RH side of engine compartment in E-Box		01-1
X31	CONNECTOR (12-PINS, BLACK)	LH side of engine compartment	10-3	
X32	CONNECTOR (12-PINS, WHITE)	LH footwell	20-1	07-3
X33	CONNECTOR (12-PINS, BLACK)	LH footwell	20-1	06-4
X34	CONNECTOR (12-PINS, WHITE)	LH footwell	19-3	06-4
X35	CONNECTOR (21-PINS, BLACK)	LH footwell	19-3	01-3
X51	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X52	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment		02-3
X54	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X55	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X56	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X57	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X58	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X61	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment	09-3	02-3
X63	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X64	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X65	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X67	CONNECTOR (12-PINS, BLACK)	Front LH side of engine compartment near front left turn signal assembly		01-2
X69	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	08-3	03-4
X70	CONNECTOR (8-PINS, BLACK)	LH side of engine compartment ahead of LH side shock tower RH side of differential		01-5
X72	CONNECTOR (8-PINS, WHITE)	LH footwell	19-3	13-2
X73	CONNECTOR (8-PINS, BLACK)	LH footwell	21-1	03-1
X74	CONNECTOR (12-PINS, ORANGE)	LH footwell	19-2	08-2
X76	CONNECTOR (6-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-1
X79	CONNECTOR (3-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-4
X81	CONNECTOR (3-PINS, ORANGE)	Ahead of LH side shock tower	09-2	02-5
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment behind front grille		04-5
X83	CONNECTOR (3-PINS, YELLOW)	Below LH side of dash	18-2	04-5

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X84	CONNECTOR (3-PINS, YELLOW)	Behind LH footwell trim	18-2	
X85	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		
X86	CONNECTOR (3-PINS, ORANGE)	RH side of engine compartment ahead of RH side shock tower		04-4
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment near windshield washer reservoir RH top of radiator		02-5
X88	CONNECTOR (2-PINS, BLACK)	Below LH side of dash LH side of steering column		
X105	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	17-3	
X106	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	17-3	
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir		
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir		
X110	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir		
X111	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X112	CONNECTOR (2-PINS, BLACK)	Top center of engine ahead of oil fill cap (with EML)		
X114	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X116	CONNECTOR (4-PINS, BLACK)	LH side of dash on brake pedal support bracket		
X118	CONNECTOR (2-PINS, BLACK)	Behind LH front wheel	06-1	
X120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X121	CONNECTOR (2-PINS, WHITE)	LH side of dash on clutch pedal support bracket		
X122	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment	08-3	
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment near windshield washer reservoir		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X126	CONNECTOR (2-PINS, WHITE)	Front RH side of engine compartment ahead of wheel well	17-1	
X127	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment ahead of wheel well	17-1	
X128	CONNECTOR (2-PINS, BLACK)	LEFT FRONT TURN LIGHT, H7		
X129	CONNECTOR (2-PINS, GRAY)	LEFT PARK LIGHT, E15		
X130	CONNECTOR (2-PINS, YELLOW)	LEFT LOW BEAM LIGHT, E13		
X131	CONNECTOR (2-PINS, WHITE)	LEFT HIGH BEAM LIGHT, E11		
X132	CONNECTOR (2-PINS, BLACK)	LEFT HORN, H2		
X133	CONNECTOR (2-PINS, BLACK)	RIGHT HORN, H3		
X134	CONNECTOR (2-PINS, WHITE)	RIGHT HIGH BEAM LIGHT, E12		
X135	CONNECTOR (2-PINS, YELLOW)	RIGHT LOW BEAM LIGHT, E14		
X136	CONNECTOR (2-PINS, GRAY)	RIGHT PARK LIGHT, E19		
X137	CONNECTOR (2-PINS, BLACK)	RIGHT FRONT TURN LIGHT, H4		
X159	CONNECTOR (10-PINS, BLACK)	In lower LH front door	27-2	
X160	CONNECTOR (10-PINS, BLACK)	PASSENGER'S SIDE MEMORY MIRROR, Y10	27-3	
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on A/C compressor		02-5
X165	GROUND	LH side of dash		
X166	GROUND	Front RH side of engine compartment ahead of wheel well		
X167	GROUND	Front LH side of engine compartment		
X168	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid		
X175	GROUND	Front LH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X179	GROUND	Front RH side of engine compartment ahead of wheel well		
X251	CONNECTOR (30-PINS, BLACK)	LH footwell	20-1	14-4
X252	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat		01-1
X253	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X254	CONNECTOR (26-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X255	CONNECTOR (26-PINS, YELLOW)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door	26-2	08-1
X257	CONNECTOR (26-PINS, BLACK)	In lower LH front door ahead of LH front door	26-2	08-1
X259	CONNECTOR (20-PINS, WHITE)	Below LH side of rear seat front of battery		08-4
X260	CONNECTOR (21-PINS, BLACK)	Below RH side of rear seat	29-2	
X261	CONNECTOR (1-PINS, (---))	RH side of luggage compartment		
X262	CONNECTOR (26-PINS, BLUE)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X263	CONNECTOR (26-PINS, BLACK)	Below RH side of rear seat near battery		01-1
X269	CONNECTOR (6-PINS, BLACK)	Below LH side of rear seat		15-3
X271	CONNECTOR (12-PINS, GRAY)	Rear of A2 instrument cluster	22-2	08-2
X272	CONNECTOR (12-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		06-4
X273	CONNECTOR (12-PINS, BLACK)	Ahead of LH rear door in wire grommet	26-3	14-3
X274	CONNECTOR (12-PINS, BLACK)	Ahead of RH rear door in wire grommet	26-3	14-3
X275	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	26-1	07-2
X277	CONNECTOR (10-PINS, BLACK)	Ahead of LH rear door in wire grommet	26-3	09-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X278	CONNECTOR (10-PINS, BLACK)	Ahead of RH rear door in wire grommet	26-3	09-1
X279	CONNECTOR (12-PINS, WHITE)	Under RH front seat		07-2
X285	CONNECTOR (26-PINS, GRAY)	In LH auxiliary relay box, engine compartment		10-4
X286	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X288	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X289	CONNECTOR (9-PINS, BLACK)	In LH forward side of luggage compartment		02-3
X290	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X291	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X292	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X293	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X294	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X295	CONNECTOR (8-PINS, BLACK)	LH footwell	19-2	13-2
X296	CONNECTOR (9-PINS, BLACK)	In LH forward side of luggage compartment		02-3
X297	CONNECTOR (9-PINS, WHITE)	Below LH side of dash		02-3
X299	CONNECTOR (6-PINS, WHITE)	Below LH side of rear seat		
X311	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid	31-2	17-2
X312	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment		17-2
X315	CONNECTOR (2-PINS, WHITE)	Underside of trunk lid	31-2	
X318	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment RIGHT REAR LIGHT ASSEMBLY, E17		06-3
X319	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment LEFT REAR LIGHT ASSEMBLY, E16		06-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X322	CONNECTOR (8-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		13-2
X323	CONNECTOR (6-PINS, BLACK)	Center of windshield header near rear view mirror		06-1
X328	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid	31-2	06-3
X328	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid	31-3	06-3
X329	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid LEFT TRUNK LIGHT ASSEMBLY, E46		06-3
X331	CONNECTOR (5-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-4
X332	CONNECTOR (5-PINS, NATURAL)	Below LH side of rear seat in Rear Power Distribution Box		03-2
X333	CONNECTOR (4-PINS, BLACK)	Behind LH fresh air cowl	09-1	08-6
X334	CONNECTOR (4-PINS, WHITE)	Behind LH fresh air cowl		08-6
X335	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-6
X336	CONNECTOR (4-PINS, WHITE)	Near rear view mirror	23-3	06-5
X337	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat	28-3	06-3
X338	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X339	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X342	CONNECTOR (4-PINS, WHITE)	RH side of dash above RH kick panel		06-3
X351	CONNECTOR (2-PINS, BLACK)	Ahead of RH rear door		
X352	CONNECTOR (2-PINS, BLACK)	Ahead of LH rear door		
X353	CONNECTOR (2-PINS, BLACK)	Front LH door pillar		
X354	CONNECTOR (2-PINS, BLACK)	LH rear door jamb	30-2	
X355	CONNECTOR (3-PINS, WHITE)	In upper RH C-pillar	30-2	05-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X356	CONNECTOR (4-PINS, BLACK)	In lower RH C-pillar	30-3	13-6
X358	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		03-3
X360	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		09-5
X371	CONNECTOR (2-PINS, BLACK)	LH side of windshield header above LH visor		
X372	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment		
X374	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat in lower LH front door		
X375	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	29-2	
X376	CONNECTOR (2-PINS, WHITE)	In Rear Power Distribution Box	29-1	
X376	CONNECTOR (2-PINS, WHITE)	Below LH side of rear seat		
X377	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	29-2	
X379	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar		
X380	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar		
X381	CONNECTOR (2-PINS, BLACK)	DRIVER'S MAKEUP MIRROR LIGHT, E35		
X382	CONNECTOR (2-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR LIGHT, E36		
X383	CONNECTOR (2-PINS, YELLOW)	Under rear of car near differential	07-2	
X386	CONNECTOR (1-PINS, (---))	REAR CIGAR LIGHTER LIGHT, E31		
X387	CONNECTOR (1-PINS, (---))	REAR CIGAR LIGHTER, E30		
X388	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X389	CONNECTOR (2-PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT, H9		
X390	CONNECTOR (1-PINS, WHITE)	In upper RH C-pillar	30-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X391	CONNECTOR (2-PINS, BLACK)	Below center of console		
X393	CONNECTOR (6-PINS, BLACK)	In LH rear side of luggage compartment		04-1
X400	CONNECTOR (8-PINS, BLACK)	In LH forward side of luggage compartment		13-2
X401	CONNECTOR (1-PINS, BLACK)	DRIVER'S MAKEUP MIRROR SWITCH, S77		
X402	CONNECTOR (1-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR SWITCH, S78		
X405	CONNECTOR (2-PINS, (---))	LH side of engine compartment		
X406	CONNECTOR (2-PINS, (---))	RH side of engine compartment		
X407	CONNECTOR (2-PINS, (---))	Under LH rear of car		
X408	CONNECTOR (2-PINS, (---))	Under RH rear of car		
X409	CONNECTOR (2-PINS, (---))	Under center of car		
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X416	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X417	CONNECTOR (1-PINS, BLACK)	Under roof center panel		
X423	CONNECTOR (1-PINS, (---))	Below center of console		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	30-3	
X490	GROUND	LH side of dash LH side of steering column inside box on interior side of LH door sill		
X491	GROUND	LH side of dash LH side of steering column		
X492	GROUND	LH side of LH footwell		
X493	GROUND	Below LH side of rear seat		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X495	GROUND	Underside of RH rear seat		
X496	GROUND	Underside of RH rear seat		
X501	CONNECTOR (26-PINS, GREEN)	Center of dash ON-BOARD COMPUTER, N4		01-1
X502	CONNECTOR (26-PINS, BLACK)	Rear of A2 instrument cluster INSTRUMENT CLUSTER, A2	22-2	01-1
X503	CONNECTOR (12-PINS, BLACK)	LH side of dash		05-6
X504	CONNECTOR (12-PINS, BLACK)	FOG LIGHT SWITCH, S10		05-6
X506	CONNECTOR (12-PINS, BLACK)	Front of gearshift selector	23-2	06-4
X507	CONNECTOR (14-PINS, BLACK)	LH side of dash behind steering wheel INSTRUMENT CLUSTER, A2		11-1
X509	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3
X510	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3
X511	CONNECTOR (8-PINS, BLACK)	Front of gearshift selector	23-2	03-1
X512	CONNECTOR (8-PINS, BLACK)	Behind center of dashboard near gearshift lever below RH side of dash		
X516	CONNECTOR (5-PINS, BLACK)	Center of console HAZARD SWITCH, S18		06-2
X517	CONNECTOR (4-PINS, BLACK)	DIMMER, N3		06-3
X518	CONNECTOR (4-PINS, BLACK)	LH footwell	20-2	06-3
X521	CONNECTOR (6-PINS, BLACK)	ASC SWITCH, S6		15-6
X522	CONNECTOR (3-PINS, WHITE)	LH footwell	20-2	05-2
X523	CONNECTOR (6-PINS, BLACK)	Behind LH side of dash center of windshield header		09-2
X526	CONNECTOR (8-PINS, BLACK)	LH footwell	20-1	13-2
X531	CONNECTOR (2-PINS, WHITE)	FRONT CIGAR LIGHTER, E28		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X532	CONNECTOR (2-PINS, NATURAL)	FRONT CIGAR LIGHTER LIGHT, E29		
X537	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X538	CONNECTOR (1-PINS, NATURAL)	In upper RH front door		
X539	CONNECTOR (2-PINS, BLACK)	Center of dash		
X540	CONNECTOR (2-PINS, BLACK)	GLOVE BOX LIGHT SWITCH, S37		
X541	CONNECTOR (1-PINS, NATURAL)	RH side of dash		
X542	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X543	CONNECTOR (1-PINS, NATURAL)	LH side of dash		
X544	CONNECTOR (2-PINS, BLACK)	Behind dashboard		
X546	CONNECTOR (2-PINS, WHITE)	Below center of console LH side of gearshift selector		
X547	CONNECTOR (2-PINS, BLACK)	Behind center of dashboard RADIO, N9		
X550	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		
X601	CONNECTOR (26-PINS, WHITE)	Underside of LH front seat	24-2	14-5
X602	CONNECTOR (26-PINS, YELLOW)	Underside of LH front seat	24-1	14-5
X603	CONNECTOR (12-PINS, BLACK)	DRIVER'S SEAT SEAT CONTROL SWITCH, S51		06-6
X604	CONNECTOR (12-PINS, BLACK)	PASSENGER'S SEAT, SEAT CONTROL SWITCH, S56		06-6
X605	CONNECTOR (12-PINS, BLACK)	In LH rear side of luggage compartment	32-1	02-1
X605	CONNECTOR (12-PINS, BLACK)	In LH rear side of luggage compartment	32-2	02-1
X606	CONNECTOR (12-PINS, WHITE)	In LH rear side of luggage compartment	32-1	02-1
X606	CONNECTOR (12-PINS, WHITE)	In LH rear side of luggage compartment	32-2	02-1

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X607	CONNECTOR (20-PINS, WHITE)	RH side of RH footwell behind RH footwell kickpanel		08-4
X608	CONNECTOR (12-PINS, BLACK)	Rear RH side of engine compartment		15-1
X609	CONNECTOR (15-PINS, BLACK)	In LH rear side of luggage compartment		12-3
X616	CONNECTOR (12-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		08-5
X619	CONNECTOR (12-PINS, WHITE)	Below rear seat		07-2
X620	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box (M5)		16-1
X621	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door	26-2	09-1
X622	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door	26-2	09-1
X623	CONNECTOR (4-PINS, BLACK)	In lower LH front door	27-2	13-6
X624	CONNECTOR (4-PINS, BLACK)	PASSENGER'S SIDE MIRROR, Y6	27-3	13-6
X625	CONNECTOR (6-PINS, BLACK)	MEMORY MIRRORS CONTROL SWITCH, S12	27-2	18-2
X626	CONNECTOR (8-PINS, BLACK)	Underside of LH front seat	24-2	13-2
X627	CONNECTOR (8-PINS, BLACK)	Center of windshield header near rear view mirror	23-3	03-1
X628	CONNECTOR (5-PINS, BLACK)	In RH side of luggage compartment		
X629	CONNECTOR (8-PINS, NATURAL)	In RH side of luggage compartment		
X630	CONNECTOR (13-PINS, BLACK)	Under rear of car		
X632	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X638	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment	32-3	09-4
X641	CONNECTOR (6-PINS, BLACK)	In upper RH front door	28-1	09-4
X642	CONNECTOR (8-PINS, BLACK)	Below RH side of rear seat		18-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X643	CONNECTOR (6-PINS, BLUE)	SUNROOF SWITCH, S38		08-3
X644	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment		09-4
X645	CONNECTOR (6-PINS, BLACK)	LEFT REAR WINDOW SWITCH, S41		17-2
X646	CONNECTOR (6-PINS, BLACK)	In lower RH rear door		09-4
X647	CONNECTOR (6-PINS, BLACK)	RIGHT REAR WINDOW SWITCH, S42		17-2
X648	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	24-2	17-2
X649	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	24-2	16-6
X650	CONNECTOR (6-PINS, BLACK)	MEMORY SEAT MIRRORS SWITCH, S57		17-2
X651	CONNECTOR (6-PINS, BLACK)	DRIVER'S SEAT, SEAT HEATER SWITCH, S53		17-2
X652	CONNECTOR (6-PINS, BLUE)	DRIVER'S SEAT LUMBAR SWITCH, S52		08-3
X653	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	24-1	17-2
X654	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	24-1	16-6
X655	CONNECTOR (6-PINS, BLUE)	Underside of LH front seat	24-1	08-3
X656	CONNECTOR (6-PINS, GREEN)	Underside of LH front seat	24-1	16-5
X657	CONNECTOR (6-PINS, BROWN)	Underside of LH front seat	24-3	17-1
X659	CONNECTOR (6-PINS, BLACK)	Under RH front seat		17-2
X660	CONNECTOR (6-PINS, BLACK)	In upper LH front door	27-1	09-4
X672	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		10-2
X673	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X674	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X675	CONNECTOR (4-PINS, WHITE)	In LH forward side of luggage compartment		16-2
X676	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		16-2
X680	CONNECTOR (3-PINS, BLACK)	Underside of LH front seat	24-3	05-2
X681	CONNECTOR (4-PINS, WHITE)	Below RH side of dash		06-3
X684	CONNECTOR (3-PINS, BLACK)	In upper RH front door near door handle		02-5
X685	CONNECTOR (3-PINS, BLACK)	In upper LH front door near door handle		02-5
X686	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X687	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X688	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X689	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X690	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X692	CONNECTOR (3-PINS, BLACK)	Center of dash (radio removed)		
X692	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard		03-3
X695	CONNECTOR (3-PINS, BLACK)	Lower LH side of engine		03-3
X696	CONNECTOR (3-PINS, BLACK)	Under RH rear of car RH side of differential		07-5
X700	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, (---))	Behind LH footwell speaker grille		
X705	CONNECTOR (2-PINS, BLACK)	Near RH rear wheel well	06-2	
X706	CONNECTOR (2-PINS, (---))	CASSETTE BOX LIGHT, E45y		
X709	CONNECTOR (2-PINS, BLACK)	LEFT LICENSE PLATE LIGHT, E43		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X710	CONNECTOR (2-PINS, BLACK)	RIGHT LICENSE PLATE LIGHT, E44		
X711	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left		
X712	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33		
X713	CONNECTOR (2-PINS, BLACK)	Behind RH rear wheel		
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door		
X715	CONNECTOR (1-PINS, (---))	In upper LH rear door		
X720	CONNECTOR (2-PINS, GRAY)	In lower LH rear door		
X721	CONNECTOR (1-PINS, (---))	In upper RH rear door		
X726	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1	
X727	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	25-1	
X728	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	26-1	
X729	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1	
X730	CONNECTOR (2-PINS, (---))	In upper LH front seatback		
X731	CONNECTOR (2-PINS, WHITE)	In upper LH front seatback		
X732	CONNECTOR (2-PINS, WHITE)	In upper LH front seatback		
X733	CONNECTOR (2-PINS, BLACK)	In lower LH front seatback		
X734	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X735	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	25-1	
X736	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X737	CONNECTOR (2-PINS, WHITE)	Under RH front seat		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X738	CONNECTOR (2-PINS, (---))	In upper RH front seatback		
X739	CONNECTOR (2-PINS, YELLOW)	Under RH front seat		
X740	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	25-3	
X741	CONNECTOR (2-PINS, WHITE)	In upper RH front seatback		
X742	CONNECTOR (2-PINS, YELLOW)	In lower RH front door	27-3	
X743	CONNECTOR (2-PINS, BLACK)	In upper RH front door	28-1	
X744	CONNECTOR (2-PINS, GRAY)	In lower RH front door	27-3	
X746	CONNECTOR (1-PINS, (---))	In upper RH front door		
X747	CONNECTOR (2-PINS, YELLOW)	In lower LH front door	27-1	
X749	CONNECTOR (2-PINS, GRAY)	In lower LH front door	27-2	
X750	CONNECTOR (1-PINS, (---))	In upper LH front door	27-2	
X751	CONNECTOR (2-PINS, WHITE)	In lower LH front door	27-1	
X752	CONNECTOR (2-PINS, GRAY)	In lower LH front door In upper LH front door left	27-1	
X753	CONNECTOR (1-PINS, (---))	In upper LH front door		
X755	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X756	CONNECTOR (2-PINS, BLACK)	Near RH rear wheel well behind RH rear wheel		
X757	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment		
X760	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X761	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X762	CONNECTOR (1-PINS, (---))	Under rear window shelf		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X763	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X764	CONNECTOR (2-PINS, WHITE)	In RH side of luggage compartment		
X765	CONNECTOR (2-PINS, WHITE)	In RH side of luggage compartment		
X768	CONNECTOR (2-PINS, WHITE)	LEFT FOG LIGHT, E26		
X769	CONNECTOR (2-PINS, GRAY)	Below LH side of dash		
X770	CONNECTOR (2-PINS, WHITE)	Under LH front bumper	06-3	
X771	CONNECTOR (2-PINS, BLACK)	Below LH side of dash		
X772	CONNECTOR (2-PINS, WHITE)	RH side of LH footwell		
X773	CONNECTOR (2-PINS, WHITE)	RH side of dash		
X774	CONNECTOR (1-PINS, GRAY)	Near LH headlight assembly		
X778	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	25-1	
X779	CHARGING SOCKET	LH side of glove box	23-1	
X783	CONNECTOR (2-PINS, ORANGE)	Bottom of steering column	20-3	
X784	CONNECTOR (12-PINS, ORANGE)	LH footwell	19-3	06-4
X785	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X790	CONNECTOR (2-PINS, WHITE)	LEFT REAR SEAT HEATER, E66		
X791	CONNECTOR (2-PINS, WHITE)	RIGHT REAR SEAT HEATER, E67		
X792	CONNECTOR (2-PINS, BLACK)	LEFT REAR SEATBACK HEATER, E65		
X793	CONNECTOR (2-PINS, BLACK)	RIGHT REAR SEATBACK HEATER, E68		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X794	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X796	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat		
X798	CONNECTOR (2-PINS, BLACK)	In upper LH front seatback		
X799	CONNECTOR (2-PINS, BLACK)	In upper RH front seatback		
X800	CONNECTOR (2-PINS, WHITE)	Behind LH footwell trim	18-2	
X811	CONNECTOR (1-PINS, BLACK)	Below RH side of rear seat near battery		
X817	CONNECTOR (1-PINS, BLACK)	Between front footwells		
X818	GROUND	LH side of dash LH side of steering column		
X880	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		16-6
X881	CONNECTOR (6-PINS, WHITE)	PASSENGER'S THIGH SUPPORT SWITCH, S94		16-6
X882	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1	
X883	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X884	CONNECTOR (3-PINS, BLUE)	In upper RH front seatback		07-1
X887	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		16-6
X890	CONNECTOR (2-PINS, BLACK)	Behind LH front fog light		
X898	CONNECTOR (8-PINS, BLACK)	Center of dash LH side of heater control panel		03-1
X899	CONNECTOR (18-PINS, BLACK)	Center of dash RH side of heater control panel		13-3
X900	CONNECTOR (2-PINS, WHITE)	Above LH footwell dash panel		
X901	CONNECTOR (2-PINS, WHITE)	Above RH footwell dash panel		
X904	CONNECTOR (4-PINS, BLACK)	LH side of RH footwell		06-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X905	CONNECTOR (5-PINS, BLACK)	Center of dash middle of heater control panel		09-3
X945	CONNECTOR (10-PINS, BLACK)	In RH side of luggage compartment		17-5
X946	CONNECTOR (4-PINS, BLACK)	Under rear window shelf		06-3
X948	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X949	CONNECTOR (5-PINS, BLACK)	Under rear window shelf		02-4
X960	BATTERY B+ START POINT	LH side of dash		
X963	CONNECTOR (1-PINS, (---))	Below RH side of rear seat		
X997	CONNECTOR (2-PINS, WHITE)	Under rear of car behind RH rear wheel		
X998	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-5
X999	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-3
X1021	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1024	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1034	CONNECTOR (3-PINS, BLACK)	Below LH side of dash		07-5
X1035	CONNECTOR (3-PINS, BLACK)	Near RH headlight assembly		07-5
X1048	CONNECTOR (1-PINS, (---))	RH side of engine compartment		
X1049	CONNECTOR (1-PINS, (---))	RH side of engine compartment		
X1056	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1086	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1098	CONNECTOR (12-PINS, BLACK)	Front of engine compartment		05-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1099	CONNECTOR (12-PINS, BLACK)	Front of engine compartment		05-6
X1160	GROUND	LH side of dash LH side of steering column		
X1171	CONNECTOR (55-PINS, NATURAL)	Rear RH side of engine compartment in E-Box SLIP CONTROL MODULE (ABS/ ASC), A70		00-1
X1191	CONNECTOR (4-PINS, BLACK)	Rear of luggage compartment below brake fluid reservoir behind trim panel		06-3
X1195	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1197	CONNECTOR (8-PINS, WHITE)	In E-Box	15-2	03-1
X1221	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		10-4
X1222	CONNECTOR (6-PINS, WHITE)	In LH forward side of luggage compartment		04-1
X1250	CONNECTOR (10-PINS, BLACK)	RH side of luggage compartment behind side panel		
X1250	CONNECTOR (10-PINS, BLACK)	RH side of luggage compartment behind side panel		15-2
X1251	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	31-3	
X1252	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	31-3	
X1253	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		
X1254	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		
X1374	CONNECTOR (1-PINS, NATURAL)	GLOVE BOX LIGHT, E42		
X1386	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box		18-4
X1388	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment		
X1389	CONNECTOR (12-PINS, BLACK)	RH side of engine compartment		02-1
X1405	CONNECTOR (1-PINS, NATURAL)	RH side of dash		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1406	CONNECTOR (1-PINS, NATURAL)	RH side of dash		
X1427	CONNECTOR (1-PINS, NATURAL)	DASH LIGHT, E41		
X1439	CONNECTOR (2-PINS, BLACK)	TRANSMISSION RANGE SELECTOR LIGHT, E9500		
X1440	CONNECTOR (1-PINS, BROWN)	Below LH side of dash		
X1851	CONNECTOR (1-PINS, BLACK)	At back of rear window shelf		
X1852	CONNECTOR (1-PINS, WHITE)	At back of rear window shelf		
X3210	CONNECTOR (26-PINS, BLUE)	LH side of dash LH side of steering column		01-1
X3211	CONNECTOR (4-PINS, BLACK)	Center of dash		05-1
X3212	CONNECTOR (4-PINS, BLACK)	LH footwell	20-1	03-3
X5000	CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-6
X6000	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box ENGINE CONTROL MODULE (DME), A6000		00-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear LH side of engine compartment right of LH side shock tower		04-6
X6003	CONNECTOR (8-PINS, BLACK)	In E-Box	15-1	
X6003	CONNECTOR (8-PINS, BLACK)	In E-Box	15-2	03-1
X6004	CONNECTOR (35-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-3
X6006	CONNECTOR (5-PINS, GREEN)	Rear RH side of engine compartment in E-Box		02-4
X6007	CONNECTOR (35-PINS, NATURAL)	Above RH kick panel		00-3
X6030	CONNECTOR (18-PINS, BLACK)	In E-Box		19-1
X6053	CONNECTOR (12-PINS, BLACK)	RH side of dash behind glove box		02-1

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
X6101 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6102 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6103 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6104 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6105 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6106 . CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6120 . CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6130 . CONNECTOR (3-PINS, BLACK)	Top front of engine		
X6132 . CONNECTOR (2-PINS, BLACK)	Front of engine LH side of engine (M5)		
X6133 . CONNECTOR (2-PINS, BLACK)	Top front of engine	11-3	
X6151 . CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6152 . CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6154 . CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6155 . CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6156 . CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6200 . CONNECTOR (4-PINS, BLACK)	LH side of engine	10-1	13-5
X6201 . CONNECTOR (3-PINS, BLACK)	Top front of engine	11-3	03-5
X6201 . CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5
X6202 . CONNECTOR (3-PINS, BLACK)	Top front of engine	11-3	03-5
X6202 . CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X6205	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6206	CONNECTOR (7-PINS, BLACK)	Front LH side of engine compartment ahead of LH side shock tower		13-4
X6217	CONNECTOR (4-PINS, GRAY)	Top front of engine		09-6
X6230	CONNECTOR (3-PINS, BLACK)	LH side of engine	10-2	03-5
X6231	CONNECTOR (2-PINS, BLACK)	Front of engine compartment below intake manifold		
X6232	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6233	CONNECTOR (5-PINS, BLACK)	Top center of engine ahead of oil fill cap		12-2
X6234	CONNECTOR (2-PINS, WHITE)	Front of engine LH side of engine		
X6235	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment in E-Box		
X6236	CONNECTOR (2-PINS, BLACK)	Top rear of engine on coolant inlet		
X6238	CONNECTOR (2-PINS, BLACK)	Front of engine LH side of engine		
X6250	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		03-5
X6251	CONNECTOR (6-PINS, BLACK)	Top front of engine on throttle body		02-2
X6300	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6301	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6302	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6304	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6350	CONNECTOR (8-PINS, BLACK)	Top front of engine near distributor		03-6
X6400	B+ JUNCTION POINT	In E-Box		
X6450	GROUND	Rear RH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6451	GROUND	RH side of engine compartment near battery		
X6452	GROUND	Near E-Box left		
X6453	GROUND	Near E-Box left		
X6454	GROUND	Near battery		
X6506	CONNECTOR (4-PINS, BLACK)	In E-Box	15-2	06-3
X6508	CONNECTOR (3-PINS, BLACK)	LH side of engine	10-1	03-5
X6510	CABLE SOCKET STARTER TERMINAL 50	LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	LH side of engine		
X8500	CONNECTOR (55-PINS, BLACK)	Behind RH footwell kickpanel		00-1
X8500	CONNECTOR (35-PINS, BLACK)	Behind RH footwell kickpanel		00-3
X8503	CONNECTOR (6-PINS, BLUE)	Below center console		08-3
X8505	CONNECTOR (8-PINS, BLACK)	On LH side of transmission		11-2
X8505	CONNECTOR (16-PINS, BLACK)	On LH side of transmission		19-2
X8507	CONNECTOR (1-PINS, BLACK)	Rear RH side of engine compartment		
X8508	GROUND	Underside of RH rear seat		
X8513	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	23-2	
X8514	CONNECTOR (6-PINS, BLUE)	Below center console front of gearshift selector		08-3
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car		
X8550	CONNECTOR (48-PINS, BLUE)	Behind RH footwell kickpanel		16-4

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X8551	CONNECTOR (10-PINS, BLACK)	On LH side of transmission		09-1
X8575	CONNECTOR (1-PINS, WHITE)	LH side of dash		
X10051	CONNECTOR (4-PINS, WHITE)	Behind LH side of dash		06-3
X10063	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X10082	CONNECTOR (5-PINS, GREEN)	Behind LH footwell trim	18-1	02-4
X10083	CONNECTOR (4-PINS, BLACK)	Behind LH footwell trim	18-1	02-6
X10084	CONNECTOR (9-PINS, BLACK)	Below RH side of dash		02-3
X10104	CONNECTOR (18-PINS, WHITE)	In E-Box		19-1
X10105	CONNECTOR (8-PINS, WHITE)	In E-Box		03-1
X10194	CONNECTOR (16-PINS, BLACK)	Rear LH side of engine compartment		19-2
X13018	CONNECTOR (1-PINS, BLACK)	In rear window		
X13023	CONNECTOR (2-PINS, WHITE)	Center console		
X13024	CONNECTOR (2-PINS, BLACK)	Center console		
X13025	CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat	29-2	
X13056	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment behind side panel		02-3
X13057	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13058	CONNECTOR (2-PINS, GREEN)	RH side of luggage compartment behind side panel		
X13059	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13085	CONNECTOR (10-PINS, BLACK)	In roof panel	31-1	09-1
X13086	CONNECTOR (15-PINS, BLACK)	In roof panel	31-1	13-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13105	CONNECTOR (3-PINS, BLACK)	Below LH side of dash		03-3
X13106	CONNECTOR (6-PINS, BLACK)	RH side of luggage compartment behind side panel		15-5
X13107	CONNECTOR (4-PINS, WHITE)		31-3	
X13119	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		06-4
X13123	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13124	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13139	CONNECTOR (10-PINS, BLACK)	Center of windshield header		09-1
X18025	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment		05-1
X18029	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-5
X18049	CONNECTOR (2-PINS, YELLOW)	In lower LH rear door		
X18050	CONNECTOR (2-PINS, BLACK)	RH front door		
X18051	CONNECTOR (2-PINS, WHITE)	In lower RH rear door		
X18052	CONNECTOR (2-PINS, YELLOW)	In lower RH rear door		
X18067	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18068	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18080	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33		
X18084	CONNECTOR (2-PINS, WHITE)	LH front door	27-1	
X18093	CONNECTOR (3-PINS, WHITE)	STEERING COLUMN POSITION SWITCH, S119z		03-3
X18097	CONNECTOR (2-PINS, BLACK)	Bottom of steering column	20-3	
X18126	CONNECTOR (17-PINS, BLACK)	Behind radio	22-3	04-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18151	CONNECTOR (10-PINS, BLACK)	IHKR/F3 SWITCHING UNIT, S135w		09-1
X18153	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard near gearshift lever		05-2
X18154	CONNECTOR (18-PINS, BLACK)	IHKR/F3 CONTROL PANEL, S134w		13-3
X18155	CONNECTOR (26-PINS, WHITE)	LH side of RH footwell	21-3	10-4
X18156	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	21-3	10-4
X18157	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	21-3	10-4
X18181	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat		17-2
X18184	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18185	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18186	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18187	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18189	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18190	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18191	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X18192	CONNECTOR (1-PINS, WHITE)	In upper RH front door		
X18193	CONNECTOR (1-PINS, (---))	In upper RH front door		
X18203	CONNECTOR (4-PINS, (---))	Below RH side of rear seat		06-5
X18205	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	23-2	
X18208	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-3
X18209	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-5

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18244	CONNECTOR (8-PINS, BLACK)	Center of dash		03-1
X18245	CONNECTOR (8-PINS, BLACK)	In roof panel	31-1	03-1
X18259	CONNECTOR (10-PINS, BLACK)	Below LH side of dash		15-2
X18263	CONNECTOR (2-PINS, WHITE)	Middle of heater control panel		
X18500	CONNECTOR (25-PINS, BLACK)	TELEPHONE TRANSCEIVER, H38		19-4
X18501	CONNECTOR (3-PINS, YELLOW)	TELEPHONE INTERFACE US, A192		
X18507	CONNECTOR (4-PINS, BLACK)			
X18508	CONNECTOR (4-PINS, BLACK)			
X18509	CONNECTOR (4-PINS, BLACK)			
X18520	CONNECTOR (10-PINS, BLACK)	Behind radio	22-3	
X18521	CONNECTOR (10-PINS, BLACK)	In LH rear side of luggage compartment	32-2	19-3
X18715	CONNECTOR (1-PINS, BLACK)	Behind center of dashboard behind radio		
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	32-1	05-2
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	32-2	05-2
X18736	CONNECTOR (1-PINS, BLUE)	Inside box on interior side of LH door sill		
X18741	CONNECTOR (4-PINS, BLACK)			
Y1	ABS HYDRAULIC UNIT	LH side of engine compartment	10-3	
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	08-3	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
Y9	DRIVER'S SIDE MEMORY MIRROR	In upper LH front door		
Y10	PASSENGER'S SIDE MEMORY MIRROR	In upper RH front door		
Y6101	CYL. 1 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6102	CYL. 2 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6103	CYL. 3 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6104	CYL. 4 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6105	CYL. 5 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6106	CYL. 6 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment LH side of engine		09-2
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine (near oil level stick) (M5)		
Y6130	IDLE SPEED CONTROL VALVE	Front of engine		12-1
Y6130	IDLE SPEED CONTROL VALVE	Top front of engine on throttle body (M5)		
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	LH side of engine (near oil level stick) (M5)		
Y8514	PROGRAM SWITCH	Below center of console front of gearshift selector		
Y8516	ELECTRONIC TRANSMISSION ENGINE SPEED SENSOR (EGS)	Under center of car		
Y8505y	TRANSMISSION VALVE UNIT	In transmission		

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

COMPONENT LOCATION VIEWS

COMPONENT LOCATION VIEWS

P90
X0
X1
X2
X3
X6400

COMPONENT LOCATION VIEWS

B(-)

X167
X175
X6450
X6451
X6456

COMPONENT LOCATION VIEWS

B(-)

X165
X170
X490
X491
X818
X1160
X6454
X6456

COMPONENT LOCATION VIEWS

B(-)

X166
X179
X492
X493
X495
X496
X8508

COMPONENT LOCATION VIEWS

FIG. 1 - Behind LH front wheel

- B2 LEFT FRONT SPEED SENSOR - ABS
- B16 LEFT FRONT BRAKE PAD SENSOR
- X118 CONNECTOR (2-PINS, BLACK)

FIG. 2 - Behind RH rear wheel

- B3 RIGHT REAR SPEED SENSOR - ABS
- B17 RIGHT REAR BRAKE PAD SENSOR
- X705 CONNECTOR (2-PINS, BLACK)

FIG. 3 - Under LH front bumper

- B21 ON-BOARD COMPUTER TEMPERATURE SENSOR
- X770 CONNECTOR (2-PINS, WHITE)

COMPONENT LOCATION VIEWS

FIG 1 - Underside of oil pan

B6230 OIL LEVEL SENSOR

FIG 2 - Under rear of car

B10 VEHICLE SPEED SENSOR
X383 CONNECTOR (2-PINS, YELLOW)

FIG 3 - In Front Power Distribution Box

K5 WASHER PUMP RELAY
K9 UNLOADER RELAY, TERMINAL 15
K19 COMPRESSOR CONTROL RELAY

COMPONENT LOCATION VIEWS

FIG 1 - In Front Power Distribution Box

B900	JUMPER PLUG
K1	STARTER RELAY
K2	HORN RELAY
K3	UNLOADER RELAY, TERMINAL R
K4	BLOWER RELAY
K8	AUXILIARY WATER PUMP RELAY

FIG 2 - In Front Power Distribution Box

K10	ABS RELAY
K16	HAZARD FLASHER RELAY
K61	UNLOADER RELAY, TERMINAL 61
N17	CRASH CONTROL MODULE
S21w	ENGINE HOOD SWITCH

FIG 3 - Rear LH side of engine compartment

M37a	AUXILIARY WATER PUMP
X20	CONNECTOR (25-PINS, BLACK)
X69	CONNECTOR (25-PINS, BLACK)
X122	CONNECTOR (2-PINS, BLACK)
Y4	WATER VALVE ASSEMBLY

COMPONENT LOCATION VIEWS

FIG 1 - Behind LH fresh air cowl

M3 WIPER MOTOR
X333 CONNECTOR (4-PINS, BLACK)

FIG 2 - LH side of engine compartment

M25 CRUISE CONTROL ACTUATOR (TEMPOMAT)
P92 AUXILIARY RELAY BOX
S71 LEFT FRONT IMPACT SENSOR
X81 CONNECTOR (3-PINS, ORANGE)
Y6120 EVAPORATIVE EMISSION VALVE

FIG 3 - In LH auxiliary relay box, engine compartment

F52 FUSE (10A)
F56 AUTOMATIC CUT-OUT
K21 NORMAL SPEED RELAY
K22 HIGH SPEED RELAY
N6 HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)
X61 CONNECTOR (9-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG 1 - LH side of engine (near oil level stick)

X6200 CONNECTOR (4-PINS, BLACK)
X6508 CONNECTOR (3-PINS, BLACK)

FIG 2 - LH side of engine

X6230 CONNECTOR (3-PINS, BLACK)

FIG 3 - LH side of engine compartment

B18 BRAKE FLUID LEVEL SWITCH
X31 CONNECTOR (12-PINS, BLACK)
X111 CONNECTOR (2-PINS, BLACK)
X114 CONNECTOR (2-PINS, BLACK)
X120 CONNECTOR (2-PINS, BLACK)
Y1 ABS HYDRAULIC UNIT

COMPONENT LOCATION VIEWS

FIG 1 - Rear of engine (535i)

B6231 OIL PRESSURE SWITCH

FIG 2 - Rear of engine (M5)

B6231 OIL PRESSURE SWITCH

FIG 3 - Top front of engine (M5)

B6201 CYLINDER IDENTIFICATION SENSOR
B6202 CRANKSHAFT POSITION/RPM SENSOR
M6133 AIR PUMP
X6133 CONNECTOR (2-PINS, BLACK)
X6201 CONNECTOR (3-PINS, BLACK)
X6202 CONNECTOR (3-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG. 1 - Front of engine (525i)

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
B6231 OIL PRESSURE SWITCH
B6232 ENGINE COOLANT TEMPERATURE SENSOR
B6236 ENGINE COOLANT TEMPERATURE SENSOR
Y6130 IDLE SPEED CONTROL VALVE

FIG. 2 - Front of engine (M5)

B6236 ENGINE COOLANT TEMPERATURE SENSOR

FIG. 3 - Front of engine (535i)

B6232 ENGINE COOLANT TEMPERATURE SENSOR
B6234 ENGINE COOLANT TEMP. SENSOR (EML)
B6236 ENGINE COOLANT TEMPERATURE SENSOR

COMPONENT LOCATION VIEWS

FIG. 1 - RH side of engine RH side of oil filter

B6201 CYLINDER IDENTIFICATION SENSOR

B6202 CRANKSHAFT POSITION/RPM SENSOR

FIG. 2 - RH side of engine (525i)

T6151 CYL. 1 IGNITION COIL
T6152 CYL. 2 IGNITION COIL
T6153 CYL. 3 IGNITION COIL
T6154 CYL. 4 IGNITION COIL
T6155 CYL. 5 IGNITION COIL
T6156 CYL. 6 IGNITION COIL

FIG. 3 - Front of engine (525i)

Y6101 CYL. 1 FUEL INJECTION VALVE
Y6102 CYL. 2 FUEL INJECTION VALVE
Y6103 CYL. 3 FUEL INJECTION VALVE
Y6104 CYL. 4 FUEL INJECTION VALVE
Y6105 CYL. 5 FUEL INJECTION VALVE
Y6106 CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS

FIG. 1 - LH side of engine compartment (535i)

B6233 VOLUME AIR FLOW SENSOR
D100 DATA LINK CONNECTOR
M6350 ELECTRONIC THROTTLE ACTUATOR (EML)
P90 FRONT POWER DISTRIBUTION BOX
S63 ENGINE COOLANT LEVEL SWITCH

FIG. 2 - Top center of engine (525i)

S63 ENGINE COOLANT LEVEL SWITCH

FIG. 3 - Front of engine

B6205 INTAKE AIR TEMPERATURE SENSOR

COMPONENT LOCATION VIEWS

FIG. 1 - Rear RH side of engine compartment (525i)

B6235	TEMPERATURE SWITCH
K6300	ENGINE CONTROL MODULE RELAY
K6301	CYL. 1-6 FUEL PUMP RELAY
K6303	OXYGEN SENSOR RELAY
X6003	CONNECTOR (8-PINS, BLACK)

FIG. 2 - Rear RH side of engine compartment (535i)

B6235	TEMPERATURE SWITCH
K6300	ENGINE CONTROL MODULE RELAY
K6301	CYL. 1-6 FUEL PUMP RELAY
X1197	CONNECTOR (8-PINS, WHITE)
X6003	CONNECTOR (8-PINS, BLACK)
X6506	CONNECTOR (4-PINS, BLACK)

FIG. 3 - Front RH side of engine compartment

S36	TEMPERATURE SWITCH

COMPONENT LOCATION VIEWS

FIG 1 - Behind front grille

H2 LEFT HORN
H3 RIGHT HORN
M9 AUXILIARY FAN MOTOR

FIG 2 - Front RH side of engine compartment (M5)

B9508 PRESSURE SWITCH
S63 ENGINE COOLANT LEVEL SWITCH

FIG 3 - Front RH side of engine compartment on washer fluid reservoir

M4 WASHER PUMP
S64 WASHER FLUID LEVEL SWITCH

COMPONENT LOCATION VIEWS

FIG 1 - Front RH side of engine compartment ahead of wheel well

X126 CONNECTOR (2-PINS, WHITE)
X127 CONNECTOR (2-PINS, BLACK)

FIG 2 - Rear LH side of engine compartment

B13 OUTSIDE TEMPERATURE SENSOR
H1w ANTI-THEFT HORN (ALPINE)
M30 BLOWER MOTOR

FIG 3 - On underside of engine hood

E51 LEFT WASHER JET HEATER
E52 RIGHT WASHER JET HEATER
X105 CONNECTOR (2-PINS, GRAY)
X106 CONNECTOR (2-PINS, GRAY)

COMPONENT LOCATION VIEWS

FIG. 1 - Behind LH footwell trim

A552	A/C COMPRESSOR CONTROL MODULE
K86	WIDE OPEN THROTTLE CUT-OFF RELAY
X10082	CONNECTOR (5-PINS, GREEN)
X10083	CONNECTOR (4-PINS, BLACK)

FIG. 2 - Behind LH footwell trim

A17	SERVOTRONIC CONTROL MODULE
X83	CONNECTOR (3-PINS, YELLOW)
X84	CONNECTOR (3-PINS, YELLOW)
X800	CONNECTOR (2-PINS, WHITE)

FIG. 3 - Behind LH footwell trim

X13	CONNECTOR (21-PINS, WHITE)
X14	CONNECTOR (30-PINS, YELLOW)

COMPONENT LOCATION VIEWS

FIG. 1 - LH footwell

S30 BRAKE LIGHT SWITCH
S32 CLUTCH SWITCH

FIG. 2 - LH footwell

X74 CONNECTOR (12-PINS, ORANGE)
X295 CONNECTOR (8-PINS, BLACK)

FIG. 3 - LH footwell

A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
X34 CONNECTOR (12-PINS, WHITE)
X35 CONNECTOR (21-PINS, BLACK)
X72 CONNECTOR (8-PINS, WHITE)
X784 CONNECTOR (12-PINS, ORANGE)

COMPONENT LOCATION VIEWS

FIG. 1 - LH footwell

X15	CONNECTOR (30-PINS, WHITE)
X32	CONNECTOR (12-PINS, WHITE)
X33	CONNECTOR (12-PINS, BLACK)
X251	CONNECTOR (30-PINS, BLACK)
X526	CONNECTOR (8-PINS, BLACK)
X3212	CONNECTOR (4-PINS, BLACK)

FIG. 2 - LH footwell

H10	CHIME MODULE
X518	CONNECTOR (4-PINS, BLACK)
X522	CONNECTOR (3-PINS, WHITE)

FIG. 3 - Below LH side of dash

M82	STEERING COLUMN LENGTH ADJUST MOTOR
X783	CONNECTOR (2-PINS, ORANGE)
X18097	CONNECTOR (2-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG. 1 - LH footwell

R10 PEDAL POSITION SENSOR
X73 CONNECTOR (8-PINS, BLACK)

FIG. 2 - LH footwell LH side of IHKR/F3 Plenum

B11 LH HEAT EXCHANGER TEMPERATURE SENSOR
B14 EVAPORATOR TEMPERATURE SENSOR
M36 FRESH AIR FLAP MOTOR
M40 RECIRCULATION FLAP MOTOR
R11 BLOWER RESISTORS

FIG. 3 - LH side of RH footwell

A87w INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)
B12 RH HEAT EXCHANGER TEMPERATURE SENSOR
M34 DASH VENT MIXING FLAP MOTOR
X18155 CONNECTOR (26-PINS, WHITE)
X18156 CONNECTOR (26-PINS, BLUE)
X18157 CONNECTOR (26-PINS, BLUE)

COMPONENT LOCATION VIEWS

FIG 1 - Top of steering column

C100 CONTACT RING
G5 DRIVER'S AIR BAG GENERATOR

FIG 2 - Rear of A2 Instrument cluster

X16 CONNECTOR (26-PINS, NATURAL)
X17 CONNECTOR (6-PINS, BROWN)
X271 CONNECTOR (12-PINS, GRAY)
X502 CONNECTOR (26-PINS, BLACK)

FIG 3 - Center of dash

N9 RADIO
X18126 CONNECTOR (17-PINS, BLACK)
X18520 CONNECTOR (10-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG 1 - LH side of glove box

S37 GLOVE BOX LIGHT SWITCH
X779 CHARGING SOCKET

FIG 2 - Below center console front of gearshift selector

S3 AUTOMATIC TRANSMISSION RANGE SWITCH
X506 CONNECTOR (12-PINS, BLACK)
X511 CONNECTOR (8-PINS, BLACK)
X8513 CONNECTOR (2-PINS, WHITE)
X18205 CONNECTOR (2-PINS, WHITE)

FIG 3 - Center of windshield header near rear view mirror

M24 SUNROOF MOTOR
S38 SUNROOF SWITCH
S39 SUNROOF POSITION SWITCH
X336 CONNECTOR (4-PINS, WHITE)
X627 CONNECTOR (8-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG. 1 - Underside of LH front seat

A21	SEAT/MIRROR MEMORY CONTROL MODULE
X602	CONNECTOR (26-PINS, YELLOW)
X653	CONNECTOR (6-PINS, BLACK)
X654	CONNECTOR (6-PINS, WHITE)
X655	CONNECTOR (6-PINS, BLUE)
X656	CONNECTOR (6-PINS, GREEN)

FIG. 2 - Underside of LH front seat

R8	SEAT CUSHION REAR HEIGHT POTENTIOMETER
R9	SEAT CUSHION MOVEMENT POTENTIOMETER
X601	CONNECTOR (26-PINS, WHITE)
X626	CONNECTOR (8-PINS, BLACK)
X648	CONNECTOR (6-PINS, BLACK)
X649	CONNECTOR (6-PINS, WHITE)

FIG. 3 - Underside of LH front seat

R6	SEAT HEIGHT POTENTIOMETER
R7	SEATBACK POTENTIOMETER
X657	CONNECTOR (6-PINS, BROWN)
X680	CONNECTOR (3-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG. 1 - Underside of LH front seat

X727 CONNECTOR (2-PINS, WHITE)
X735 CONNECTOR (2-PINS, WHITE)
X778 CONNECTOR (2-PINS, BLACK)

FIG. 2 - Underside of LH front seat

M50 DRIVER'S SEAT CUSHION TILT MOTOR
M51 DRIVER'S SEAT MOVEMENT MOTOR
M52 DRIVER'S SEAT HEIGHT MOTOR
M53 DRIVER'S SEATBACK RECLINER MOTOR
M65 DRIVER'S THIGH SUPPORT MOTOR

FIG. 3 - Underside of LH front seat

X740 CONNECTOR (2-PINS, WHITE)

COMPONENT LOCATION VIEWS

FIG. 1 - Underside of LH front seat

X275	CONNECTOR (12-PINS, WHITE)
X726	CONNECTOR (2-PINS, BLACK)
X728	CONNECTOR (2-PINS, WHITE)
X729	CONNECTOR (2-PINS, BLACK)
X882	CONNECTOR (2-PINS, BLACK)

FIG. 2 - Passenger's door (LH similar)

X256	CONNECTOR (26-PINS, BLACK)
X257	CONNECTOR (26-PINS, BLACK)
X621	CONNECTOR (10-PINS, BLACK)
X622	CONNECTOR (10-PINS, BLACK)

FIG. 3 - Ahead of LH rear door

X273	CONNECTOR (12-PINS, BLACK)
X274	CONNECTOR (12-PINS, BLACK)
X277	CONNECTOR (10-PINS, BLACK)
X278	CONNECTOR (10-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG 1 - In upper LH front door

M12	DRIVER'S DOOR LOCK MOTOR
X660	CONNECTOR (6-PINS, BLACK)
X751	CONNECTOR (2-PINS, WHITE)
X752	CONNECTOR (2-PINS, GRAY)
X747	CONNECTOR (2-PINS, YELLOW)
X18084	CONNECTOR (2-PINS, WHITE)

FIG 2 - In lower LH front door

X159	CONNECTOR (10-PINS, BLACK)
X623	CONNECTOR (4-PINS, BLACK)
X625	CONNECTOR (6-PINS, BLACK)
X749	CONNECTOR (2-PINS, GRAY)
X750	CONNECTOR (1-PINS, (---))
M21	DRIVER'S WINDOW MOTOR

FIG 3 - In lower RH front door

M13	PASSENGER'S DOOR LOCK MOTOR
X160	CONNECTOR (10-PINS, BLACK)
X624	CONNECTOR (4-PINS, BLACK)
X742	CONNECTOR (2-PINS, YELLOW)
X744	CONNECTOR (2-PINS, GRAY)

COMPONENT LOCATION VIEWS

FIG. 1 - In lower RH front door

M23	PASSENGER'S WINDOW MOTOR
X641	CONNECTOR (6-PINS, BLACK)
X743	CONNECTOR (2-PINS, BLACK)

FIG. 2 - In upper LH front seatback

M54	DRIVER'S HEADREST MOTOR
R5	HEADREST POTENTIOMETER

FIG. 3 - Below LH side of rear seat

K11	WIPER RELAY
K13	REAR DEFOGGER RELAY
K15	ELECTRIC POWER PROTECTION RELAY
X337	CONNECTOR (4-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG 1 - Below LH side of rear seat

K91	ON-BOARD COMPUTER HORN RELAY
S27	INERTIA SWITCH
X376	CONNECTOR (2-PINS, WHITE)

FIG 2 - Below RH side of rear seat

X260	CONNECTOR (21-PINS, BLACK)
X375	CONNECTOR (2-PINS, BLACK)
X377	CONNECTOR (2-PINS, WHITE)
X13025	CONNECTOR (12-PINS, BLACK)

FIG 3 - Below RH side of rear seat

F0	FUSIBLE LINK
G1	BATTERY

COMPONENT LOCATION VIEWS

FIG. 1 - Ahead of RH rear door

S13	PASSENGER'S DOOR JAMB SWITCH
S14	DRIVER'S DOOR JAMB SWITCH
S15	REAR RIGHT DOOR JAMB SWITCH
S16	LEFT REAR DOOR JAMB SWITCH

FIG. 2 - In upper RH C-pillar

C900	SUPPRESSION FILTER
X354	CONNECTOR (2-PINS, BLACK)
X355	CONNECTOR (3-PINS, WHITE)
X390	CONNECTOR (1-PINS, WHITE)

FIG. 3 - In upper LH C-pillar

E39	LEFT REAR INTERIOR LIGHT
N8	ANTENNA AMPLIFIER AM/FM
X356	CONNECTOR (4-PINS, BLACK)
X424	CONNECTOR (1-PINS, BROWN)

COMPONENT LOCATION VIEWS

FIG. 1 - In roof panel Station Wagon only

A99	DOUBLE PANEL POWER SUN-ROOF CONTROL MODULE
B55	DOUBLE PANEL POWER SUN ROOF SENSOR II
M88	MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF
X13085	CONNECTOR (10-PINS, BLACK)
X13086	CONNECTOR (15-PINS, BLACK)
X18245	CONNECTOR (8-PINS, BLACK)

FIG. 2 - Underside of trunk lid

M17	TRUNK LOCK MOTOR
S23	TRUNK LOCK SWITCH (DWA)
X311	CONNECTOR (3-PINS, BLACK)
X315	CONNECTOR (2-PINS, WHITE)
X328	CONNECTOR (4-PINS, BLACK)

FIG. 3 - Underside of trunk lid Station Wagon only

M96	REAR WINDOW MOTOR
M97	LIFT GATE MOTOR
X328	CONNECTOR (4-PINS, BLACK)
X1251	CONNECTOR (2-PINS, BLACK)
X1252	CONNECTOR (2-PINS, BLACK)
X13107	CONNECTOR (4-PINS, WHITE)

COMPONENT LOCATION VIEWS

FIG 1 - In LH rear side of luggage compartment

A18	HIFI AMPLIFIER
X605	CONNECTOR (12-PINS, BLACK)
X606	CONNECTOR (12-PINS, WHITE)
X18521	CONNECTOR (10-PINS, BLACK)
X18729	CONNECTOR (3-PINS, WHITE)

FIG 2 - In LH rear side of luggage compartment Station Wagon only

A18	HIFI AMPLIFIER
N22	CD CHANGER
X605	CONNECTOR (12-PINS, BLACK)
X606	CONNECTOR (12-PINS, WHITE)
X18521	CONNECTOR (10-PINS, BLACK)
X18729	CONNECTOR (3-PINS, WHITE)

FIG 3 - RH side of luggage compartment

B6	FUEL LEVEL SENSOR
M2	FUEL PUMP
X638	CONNECTOR (6-PINS, BLACK)

COMPONENT LOCATION VIEWS

FIG 1 - RH side of luggage compartment

M16 GAS FILLER LOCK MOTOR

FIG 2 - RH side of luggage compartment

A36 REAR WIPER/WASHER INTERVAL CONTROL MODULE
K70 CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)
K89 REAR WINDOW WASHER RELAY
K90 WINDOW MOTOR RELAY
K91w REAR WINDOW WIPER RELAY I
K92 REAR WINDOW WIPER RELAY II

FIG 3 - RH side of luggage compartment

M95 REAR WINDOW WASHER PUMP
S176 REAR WIPER/WASHER FLUID LEVEL SWITCH

SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X189	FRONT	8000.0-03
X191-X193	FRONT	8000.0-03
X195-X201	FRONT	8000.0-03
X203-X207	FRONT	8000.0-03
X209	FRONT	8000.0-03
X210	FRONT	8000.0-03
X212	FRONT	8000.0-03
X213	FRONT	8000.0-03
X215	FRONT	8000.0-03
X217	FRONT	8000.0-03
X222	FRONT	8000.0-03
X223	FRONT	8000.0-03
X225	FRONT	8000.0-03
X228	FRONT	8000.0-03
X241	FRONT	8000.0-03
X245	FRONT	8000.0-03
X246	FRONT	8000.0-03
X276	FRONT	8000.0-03
X282	REAR	8000.0-05
X414	REAR	8000.0-05
X426	REAR	8000.0-05
X429	REAR	8000.0-05
X431	REAR	8000.0-05
X433	REAR	8000.0-05
X435-X437	REAR	8000.0-05
X441-X445	REAR	8000.0-05
X448-X451	REAR	8000.0-05
X455-X470	REAR	8000.0-05
X475	REAR	8000.0-05
X479	REAR	8000.0-05
X480	INSTRUMENT	8000.0-04
X481	REAR	8000.0-05
X488	REAR	8000.0-05
X489	REAR	8000.0-05
X557	INSTRUMENT	8000.0-04
X559	INSTRUMENT	8000.0-04
X561-X564	INSTRUMENT	8000.0-04
X571-X573	INSTRUMENT	8000.0-04
X575-X577	INSTRUMENT	8000.0-04
X579-X584	INSTRUMENT	8000.0-04
X833	REAR	8000.0-05
X888	INSTRUMENT	8000.0-04
X906	IHKR/F3	8000.0-06
X911	REAR	8000.0-05
X994	FRONT	8000.0-03
X1017	FRONT	8000.0-03
X1022	FRONT	8000.0-03
X1023	FRONT	8000.0-03
X1029	FRONT	8000.0-03
X1033	FRONT	8000.0-03
X1036	FRONT	8000.0-03
X1043	FRONT	8000.0-03
X1047	FRONT	8000.0-03
X1152	FRONT	8000.0-03
X1092-X1095	FRONT	8000.0-03
X1149	FRONT	8000.0-03

SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X1159	FRONT	8000.0-03
X1159	INSTRUMENT	8000.0-04
X1194	FRONT	8000.0-03
X1218	INSTRUMENT	8000.0-04
X1224	REAR	8000.0-05
X1225	INSTRUMENT	8000.0-04
X1226	REAR	8000.0-05
X1228	REAR	8000.0-05
X1232	INSTRUMENT	8000.0-04
X1256-X1258	REAR	8000.0-05
X1294	REAR	8000.0-05
X1362	REAR	8000.0-05
X1366	REAR	8000.0-05
X1367	REAR	8000.0-05
X1373	REAR	8000.0-05
X1394	FRONT	8000.0-03
X1399	FRONT	8000.0-03
X1410	INSTRUMENT	8000.0-04
X1416-X1419	INSTRUMENT	8000.0-04
X1421-X1423	INSTRUMENT	8000.0-04
X1428	INSTRUMENT	8000.0-04
X1438	INSTRUMENT	8000.0-04
X1471-X1473	INSTRUMENT	8000.0-04
X1479	INSTRUMENT	8000.0-04
X6410	M30 ENGINE	8000.0-07
X6418-X6420	M50 ENGINE	8000.0-08
X6450	M50 ENGINE	8000.0-08
X6470-X6472	M30 ENGINE	8000.0-07
X6473	M50 ENGINE	8000.0-08
X6474	M30 ENGINE	8000.0-07
X6475	M50 ENGINE	8000.0-08
X6490	M30 ENGINE	8000.0-07
X6491	M30 ENGINE	8000.0-07
X6492	M50 ENGINE	8000.0-08
X6800	M30 ENGINE	8000.0-07
X6810	M30 ENGINE	8000.0-07
X6810	M50 ENGINE	8000.0-08
X6819	M50 ENGINE	8000.0-08
X6820	M30 ENGINE	8000.0-07
X6820	M50 ENGINE	8000.0-08
X6821	M30 ENGINE	8000.0-07
X6824	M30 ENGINE	8000.0-07
X6824	M50 ENGINE	8000.0-08
X6830	M50 ENGINE	8000.0-08
X6831	M50 ENGINE	8000.0-08
X6832	M30 ENGINE	8000.0-07
X6835	M50 ENGINE	8000.0-08
X6850	M30 ENGINE	8000.0-07
X6855	M30 ENGINE	8000.0-07
X6860	M50 ENGINE	8000.0-08
X6861	M30 ENGINE	8000.0-07
X6863	M50 ENGINE	8000.0-08
X6864	M30 ENGINE	8000.0-07
X6866	M50 ENGINE	8000.0-08
X6867	M30 ENGINE	8000.0-07
X6871	M30 ENGINE	8000.0-07

SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X6880	M30 ENGINE	8000.0-07
X6880	M50 ENGINE	8000.0-08
X6884	M30 ENGINE	8000.0-07
X6900-X6906	M50 ENGINE	8000.0-08
X8004	M30 ENGINE	8000.0-07
X8004-X8557	M50 ENGINE	8000.0-08
X10021	FRONT	8000.0-03
X10027	FRONT	8000.0-03
X10060	FRONT	8000.0-03
X10080	FRONT	8000.0-03
X10081	FRONT	8000.0-03
X10090	FRONT	8000.0-03
X10091	FRONT	8000.0-03
X10093	FRONT	8000.0-03
X10197	INSTRUMENT	8000.0-04
X10198	INSTRUMENT	8000.0-04
X11247	FRONT	8000.0-03
X11248	FRONT	8000.0-03
X11249	FRONT	8000.0-03
X11251	FRONT	8000.0-03
X11252	FRONT	8000.0-03
X11262	FRONT	8000.0-03
X13035	REAR	8000.0-05
X13074	REAR	8000.0-05
X13104	REAR	8000.0-05
X13113-X13118	REAR	8000.0-05
X13240	REAR	8000.0-05
X13241	REAR	8000.0-05
X13244-X13246	REAR	8000.0-05
X13248-X13250	REAR	8000.0-05
X13259	REAR	8000.0-05
X13264	REAR	8000.0-05
X18158-X18163	IHKR/F3	8000.0-06

SPLICE LOCATION VIEWS
FRONT HARNESS

X181	•	X197	•	X212	•	X1017	•	X1149	•	X10091	•
X182	•	X198	•	X213	•	X1022	•	X1152	•	X10093	•
X183	•	X199	•	X215	•	X1023	•	X1159	•	X11247	•
X184	•	X200	•	X222	•	X1029	•	X1194	•	X11248	•
X185	•	X201	•	X223	•	X1033	•	X1394	•	X11249	•
X188	•	X203	•	X225	•	X1036	•	X1399	•	X11251	•
X189	•	X204	•	X228	•	X1043	•	X10021	•	X11252	•
X191	•	X205	•	X241	•	X1047	•	X10027	•	X11262	•
X192	•	X206	•	X245	•	X1092	•	X10060	•		
X193	•	X207	•	X246	•	X1093	•	X10080	•		
X195	•	X209	•	X276	•	X1094	•	X10081	•		
X196	•	X210	•	X994	•	X1095	•	X10090	•		

SPLICE LOCATION VIEWS

INSTRUMENT HARNESS

SPLICE LOCATION VIEWS

REAR HARNESS

X414	X451	X467	X1228	X13250
X429	X455	X468	X1366	
X433	X456	X470	X1367	
X435	X459	X475	X13074	
X443	X460	X479	X13116	
X444	X461	X488	X13117	
X445	X462	X489	X13241	
X449	X463	X833	X13249	

X426	X465	X13259
X431	X469	
X436	X1226	
X437	X1258	
X441	X1294	
X442	X1362	
X450	X13115	
X457	X13248	

SPLICE LOCATION VIEWS

IHKR/F3

SPLICE LOCATION VIEWS

M30 ENGINE HARNESS

SPLICE LOCATION VIEWS

M50 ENGINE HARNESS

X6492 ●	X6902 ●
X6820 ●	X6903 ●
X6831 ●	X6904 ●
X6900 ●	X6905 ●
X6901 ●	X6906 ●

X6418 ●	X6824 ●	X8008 ●
X6419 ●	X6830 ●	X8009 ●
X6420 ●	X6835 ●	X8012 ●
X6450 ●	X6860 ●	X8015 ●
X6451 ●	X6863 ●	X8042 ●
X6475 ●	X6866 ●	X8071 ●
X6810 ●	X6880 ●	X8072 ●
X6819 ●	X8004 ●	X8556 ●
X6823 ●	X8007 ●	X8557 ●

CONNECTOR VIEWS

FIG 1

B550001 00

FIG 2

B350001 00

FIG 3

B350002 00

FIG 4

B300001 00

CONNECTOR VIEWS

FIG. 1

B260002.00

FIG. 2

B120015

FIG. 3

B210001.00

FIG. 4

B240001.00

FIG. 5

B080003.00

FIG. 6

B120013.00

CONNECTOR VIEWS

FIG. 1

B120002.02

FIG. 2

B060040.00

FIG. 3

B090001.00

FIG. 4

B050005.00

FIG. 5

B030006.00

FIG. 6

B040003.00

CONNECTOR VIEWS

FIG. 1

B080002.00

FIG. 2

B050006.00

FIG. 3

B030001.00

FIG. 4

B250001.00

FIG. 5

B030015.10

FIG. 6

B080009.00

CONNECTOR VIEWS

FIG. 1

B060017.00

FIG. 2

B170001.00

FIG. 3

B030013.00

FIG. 4

B030005.00

FIG. 5

B030012.00

FIG. 6

B200003.01

CONNECTOR VIEWS

FIG. 1

B040015.00

FIG. 2

B030003.04

FIG. 3

B0300010.02

FIG. 4

B060002.00

FIG. 5

B060002.00

FIG. 6

B120006.00

CONNECTOR VIEWS

FIG. 1

B060006.00

FIG. 2

B050003.00

FIG. 3

B040004.00

FIG. 4

B120004.01

FIG. 5

B040002.00

FIG. 6

B120008.00

CONNECTOR VIEWS

FIG. 1

B030030.00

FIG. 2

B120002.03

FIG. 3

B120004.05

FIG. 4

B060013.00

FIG. 5

B030009.00

FIG. 6

B130002.01

CONNECTOR VIEWS

FIG. 1

B210002.00

FIG. 2

B120011.00

FIG. 3

B120011.00

FIG. 4

B200001.00

FIG. 5

B120005.00

FIG. 6

B040010.00

CONNECTOR VIEWS

FIG. 1

B100008.00

FIG. 2

B060023.00

FIG. 3

B050002.00

FIG. 4

B060009.00

FIG. 5

B030022.00

FIG. 6

B040016.00

CONNECTOR VIEWS

FIG. 1

B060010.01

FIG. 2

B040013

FIG. 3

B060035.00

FIG. 4

B260005.00

FIG. 5

B200007.00

CONNECTOR VIEWS

FIG. 1

B140002.00

FIG. 2

B080005.00

FIG. 3

B100009.00

CONNECTOR VIEWS

FIG. 1

B880001.00

FIG. 2

B050006.00

FIG. 3

B150003.00

CONNECTOR VIEWS

FIG. 1

B080000.00

FIG. 2

B080001.00

FIG. 3

B180000.00

FIG. 4

B070005.00

FIG. 5

B040018.01

FIG. 6

B040020.00

CONNECTOR VIEWS

FIG. 1

B060035.02

FIG. 2

B060035.01

FIG. 3

B120003.01

FIG. 4

B300002.00

FIG. 5

B260002.00

CONNECTOR VIEWS

FIG. 1

B120014

FIG. 2

B100004.00

FIG. 3

B060038.00

FIG. 4

B030015.08

FIG. 5

B060019.00

FIG. 6

B060019.03

CONNECTOR VIEWS

FIG. 1

B090007.00

FIG. 2

B040022.00

FIG. 3

B050013.00

FIG. 4

B480000.00

FIG. 5

B060005.07

FIG. 6

B060005.08

CONNECTOR VIEWS

FIG. 1

B060005.09

FIG. 2

B060005.10

FIG. 3

B070007.00

FIG. 4

B260001.00

FIG. 5

B100007.00

CONNECTOR VIEWS

FIG. 1

B030003.00

FIG. 2

B060013.00

FIG. 3

B080006.00

FIG. 4

B880002.01

CONNECTOR VIEWS

FIG. 1

B030004.04

FIG. 2

B060030.00

FIG. 3

B100013.00

FIG. 4

B250003.00