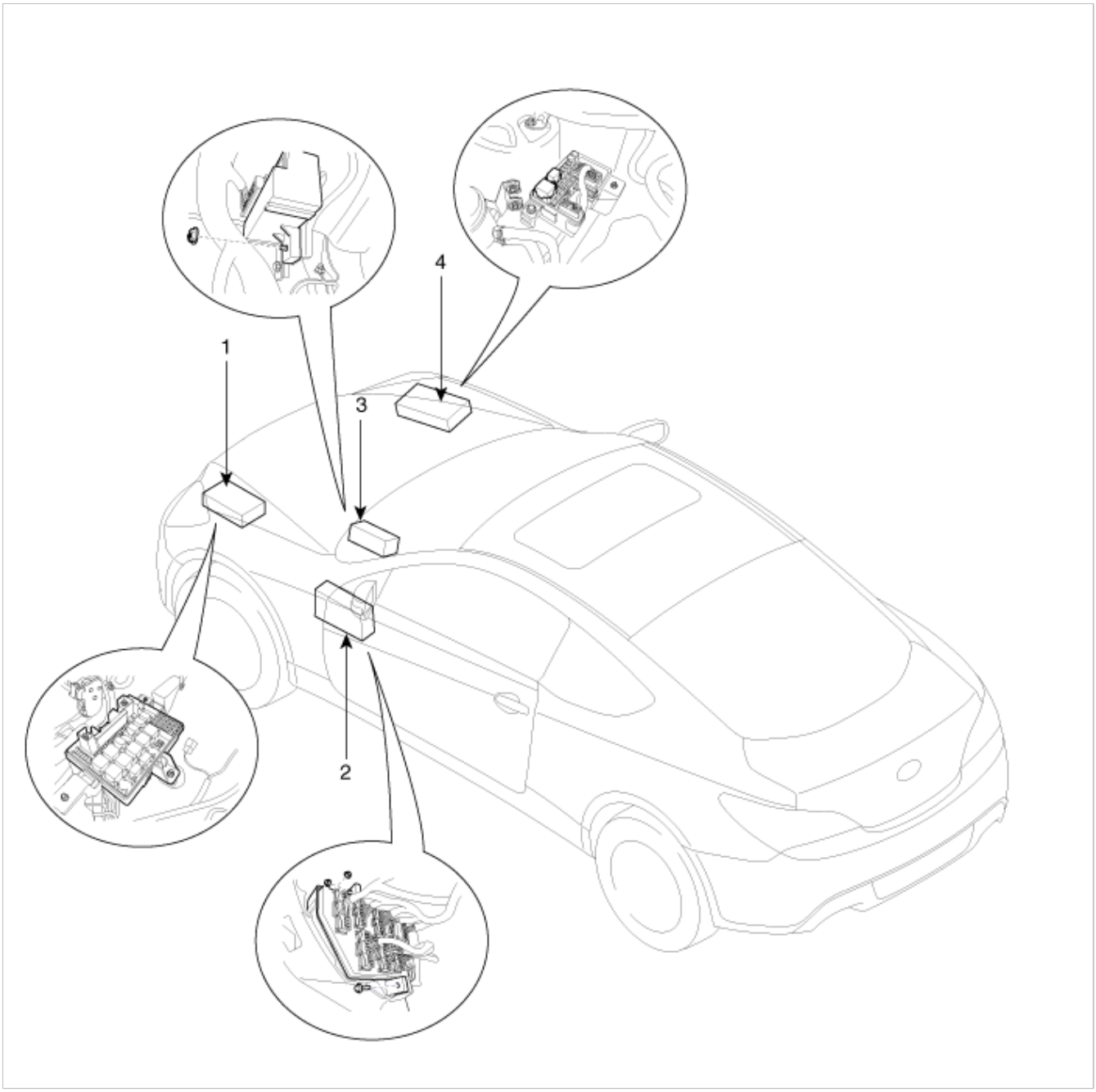
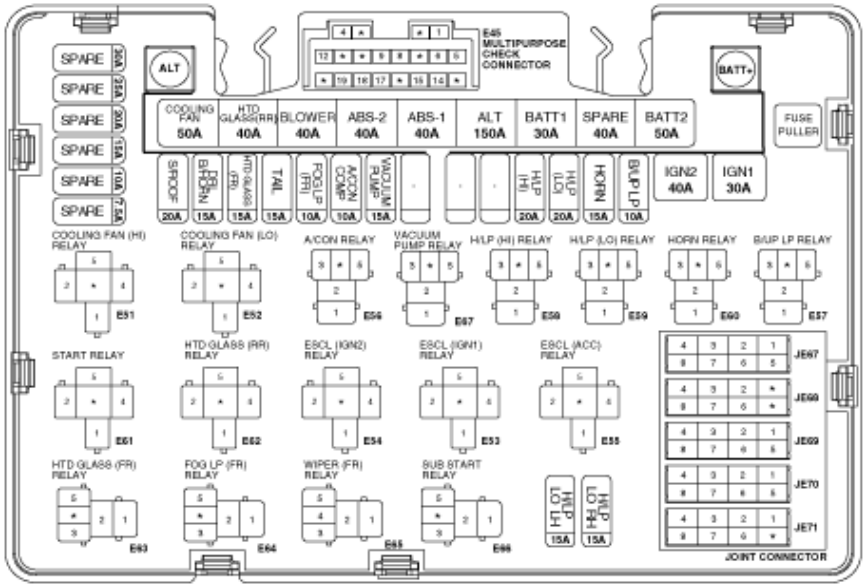
Component Location



1. Engine room relay box	3. ICM relay box
2. Passenger compartment junction box	4. Engine room sub-box

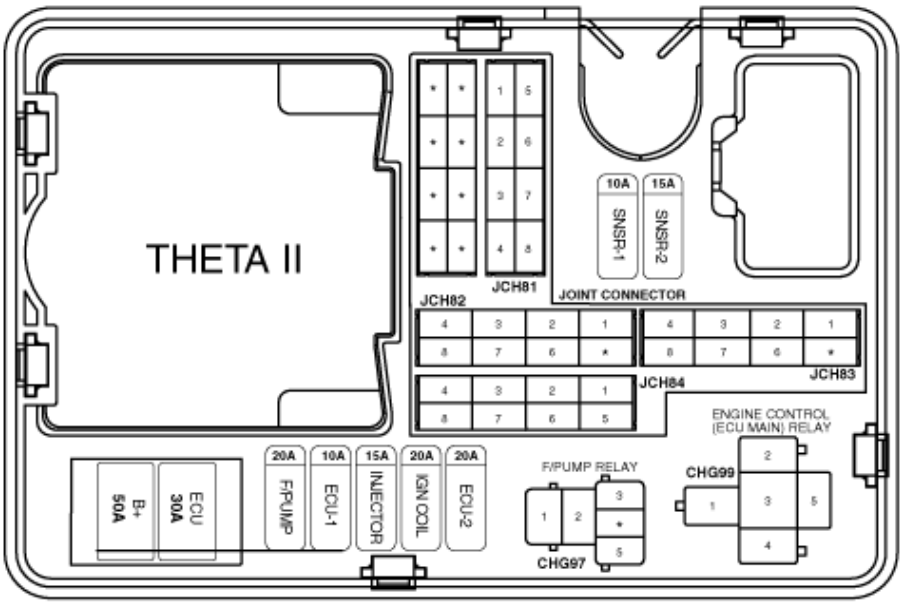
Components



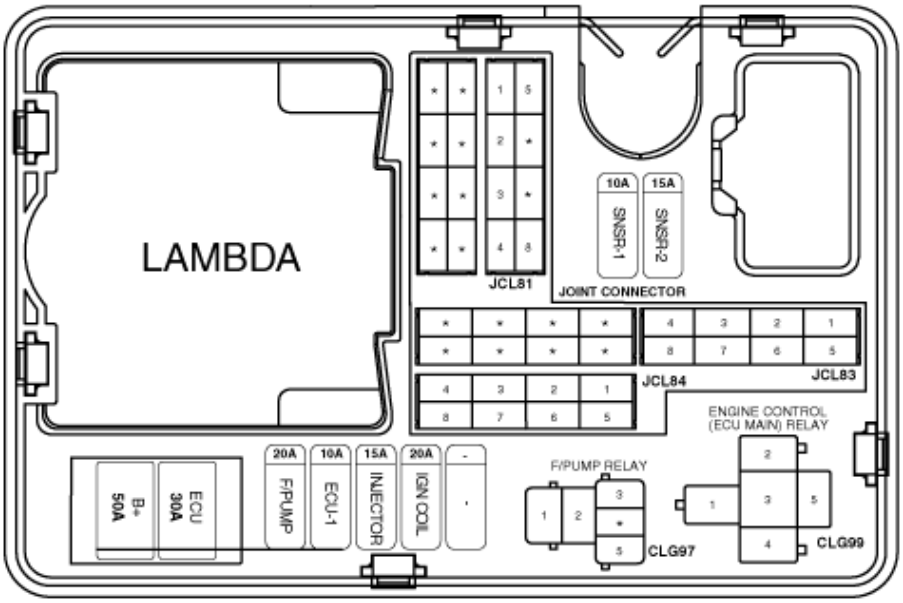
Description		(A)	Circuit Protected
MULTI FUSE	BATT 2	50A	I/P junction box Fuse(STOP LP 15A, AUTO SHIFT LOCK 7.5A, POWER CONNECTOR (AUDIO 15A, MEMORY 10A) DR LOCK 10A, P/SEAT (LH) 30A), FOG LP(RR) 10A)
	BATT 1	30A	I/P junction box Fuse Fuse (T/LID OPEN 15A, AMP 20A, HAZARD 10A, ESCL(PDM-A) 25A, P/WDW(RH) 25A P/WDW(LH) 25A, ESCL(PDM-B) 10A, ESCL SW 10A)
	ALT	150A	Generator, Fuse(ABS-1 40A, ABS-2 40A, BLOWER 40A, HTD GLASS(RR) 40A, COOLING FAN 50A, HTD GLASS(FR) 15A TAIL 15A, VACUUM PUMP 15A, DRL B/HORN 15A, A/CON COMP 10A, FOG LP(FR) 10A, S/ROOF 20A)
	ABS-1	40A	ESC control module, ABS control module, Multipurpose check connector
	ABS-2	40A	ESC control module, ABS control module
	BLOWER	40A	Blower relay
	HTD GLASS (RR)	40A	HTD glass (RR) relay
	COOLING FAN	50A	Cooling fan (HI) relay, Cooling fan (LO) relay
FUSE	IGN 1	30A	ESCL (IGN1) relay, ESCL (ACC) relay, Ignition switch
	IGN 2	40A	ESCL (IGN2) relay, Start relay, Ignition switch
	B/UP LP	10A	B/UP LP relay
	HORN	15A	Horn relay
	H/LP (LO)	20A	H/LP (LO) relay
	H/LP (HI)	20A	H/LP (HI) relay
	VACUUM PUMP	15A	Vacuum pump relay
	A/CON COMP	10A	A/CON relay
	FOG LP (FR)	10A	FOG LP (FR) relay
	TAIL	15A	TAIL relay
	HTD GLASS (FR)	15A	HTD glass (FR) relay
	DRL, B/HORN	15A	I/P junction box (DRL control module)
	S/ROOF	20A	Sunroof control module
	H/LP LO RH	15A	Head lamp RH, Head lamp leveling device actuator RH
	H/LP LO LH	15A	Head lamp LH, Head lamp leveling device actuator LH

※ USE THE DESIGNATED FUSE & RELAY ONLY

G4KF-GSL 2.0L



G6DA-GSL 3.8L



※ USE THE DESIGNATED FUSE & RELAY ONLY

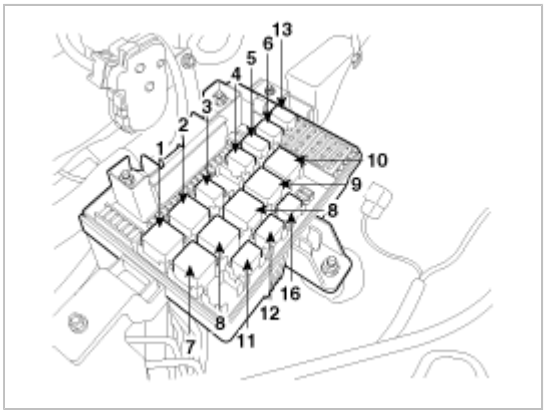
CIRCUIT

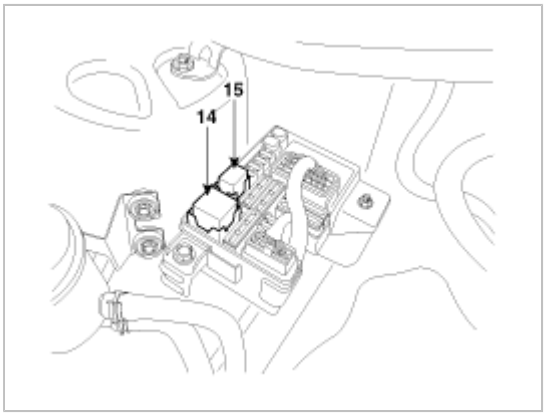
Description		(A)		Circuit Protected
FUSE	B+	50A		Fuse (F/PUMP 20A, ECU-1 10A, ECU 30A)
	ECU	30A		Engine control relay
	F/PUMP	20A		F/PUMP relay
	ECU-1	10A		ECM, TCM
	INJECTOR	15A	G4KF	Injector #1, #2, #3, #4, F/PUMP relay
			G6DA	Injector #1, #2, #3, #4, #5, #6, F/PUMP relay, ECM
	IGN COIL	20A	G4KF	Ignition coil #1, #2, #3, #4, Condenser
			G6DA	Ignition coil #1, #2, #3, #4, #5, #6, Condenser #1, #2
	SNSR-1	10A	G4KF	E/R junction box (A/CON relay, Cooling fan (HI) relay, Cooling fan (LO) relay), Oxygen sensor (UP/DOWN)
			G6DA	E/R junction box (A/CON relay, Cooling fan (HI) relay, Cooling fan (LO) relay), Oxygen sensor (#1, #2, #3, #4) ECM, Mass airflow sensor
	SNSR-2	15A	G4KF	Oil control valve #1, #2, Canister purge control solenoid valve, RCV control solenoid valve, Immobilizer module Crankshaft position sensor, WGT control solenoid valve, Camshaft position sensor #1, #2, Canister close valve
			G6DA	Oil control valve #1, #2 (INTAKE), Oil control valve #1, #2(EXHAUST), ECM, Purge control solenoid valve Immobilizer module, Canister close valve
	ECU-2	20A		ECM(G4KF)

※ USE THE DESIGNATED FUSE & RELAY ONLY

Inspection

1. Cooling fan (HI) relay	9. ESCL (IGN1)
2. Cooling fan (LO) relay	10. ESCL (ACC)
3. A/con relay	11. Fog lamp relay
4. Head lamp (HI) relay	12. Wiper relay
5. Head lamp (LO) relay	13. Back up lamp relay
6. Horn relay	14. ECU main relay
7. Start relay	15. Fuel pump relay
8. ESCL (IGN2)	16. Sub start relay



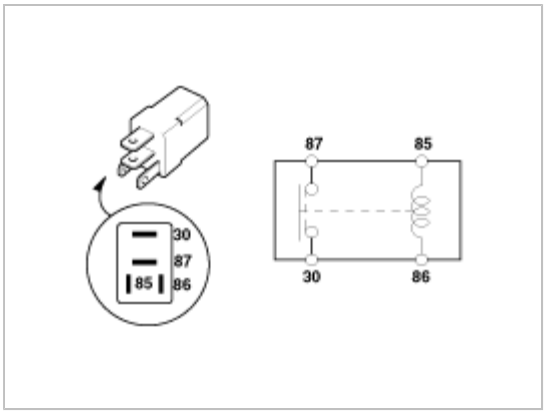


Power Relay Test (Type A)

Check for continuity between the terminals.

1. There should be continuity between the No.30 and No.87 terminals when power and ground are connected to the No.85 and No.86 terminals.
2. There should be no continuity between the No.30 and No.87 terminals when power is disconnected.

[A] Type:	
3. A/con relay	11. Fog lamp relay
4. Head lamp (LO) relay	13. Back up lamp relay
5. Head lamp (HI) relay	15. Fuel pump relay
6. Horn relay	16. Sub start relay



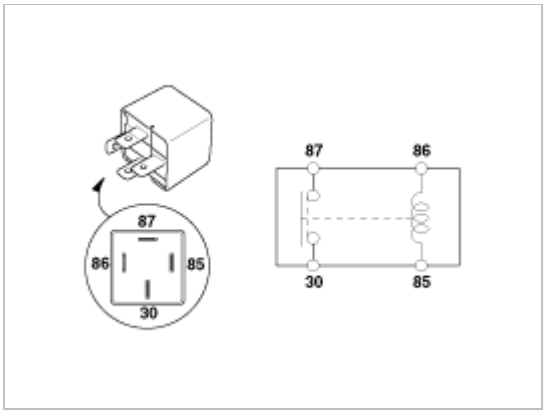
Terminal / Power	85	86	87	30
Disconnected	○	○		
Connected	⊖	⊕	○	○

Power Relay Test (Type B)

Check for continuity between the terminals.

1. There should be continuity between the No.30 and No.87 terminals when power and ground are connected to the No.85 and No.86 terminals.
2. There should be continuity between the No.30 and No.87a terminals when power is disconnected.

[B] Type:	
1. Cooling fan (HI) relay	8. ESCL (IGN2)
2. Cooling fan (LO) relay	9. ESCL (IGN1)
3. Start relay	10. ESCL (ACC)



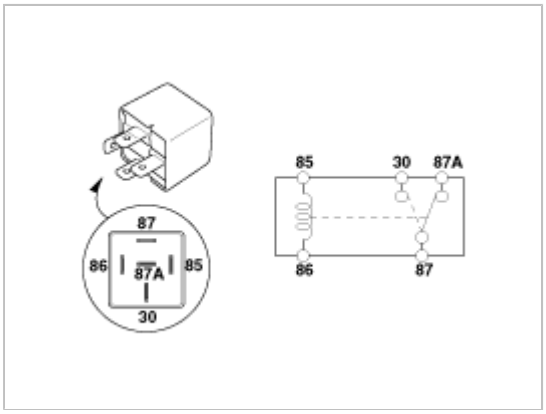
Terminal / Power	86	85	87	30
Disconnected	○	○		
Connected	⊖	⊕	○	○

Power Relay Test (Type C)

Check for continuity between the terminals.

1. There should be continuity between the No.30, 87a and No.87 terminals when power and ground are connected to the No.85 and No.86 terminals.
2. There should be no continuity between the No.30, 87a and No.87 terminals when power is disconnected.
   [C] Type :

14. ECU main relay

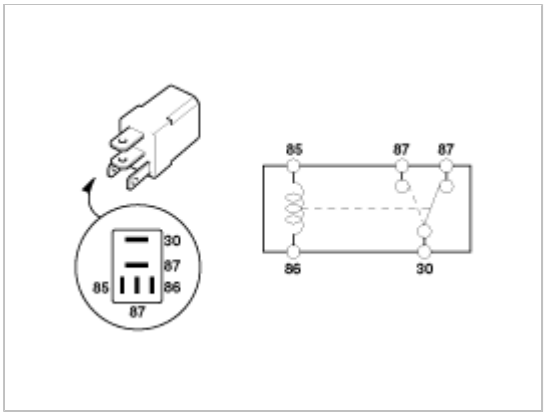


Terminal / Power	86	85	87	87a	30
Disconnected	○	○			
Connected	⊖	⊕	○	○	○

Power Relay Test (Type D)

Check for continuity between the terminals.

1. There should be continuity between the No.30 and No.87 terminals when power and ground are connected to the No.85 and No.86 terminals.
2. There should be continuity between the No.30 and No.87 terminals when power is disconnected.
   [D] Type:
   12. Wiper relay



Terminal / Power	85	86	30	87	87
Disconnected			○		○
Connected	⊖	⊕	○	○	

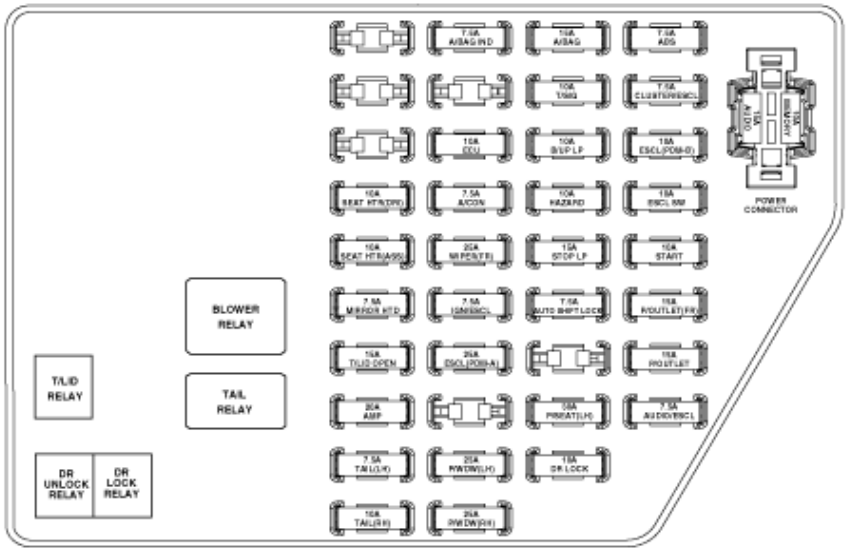
Fuse Inspection

1. Be sure there is no play in the fuse holders, and that the fuses are held securely.
2. Are the fuse capacities for each circuit correct?
3. Are there any blown fuses?
   If a fuse is to be replaced, be sure to use a new fuse of the same capacity. Always determine why the fuse blew first and completely eliminate the problem before installing a new fuse.

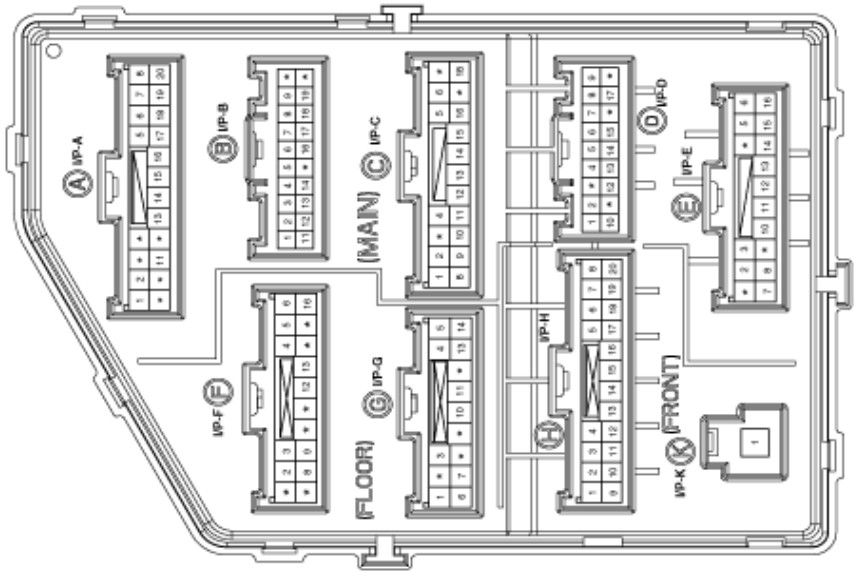
GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Body Electrical System > Fuses And Relays > Relay Box (Passenger Compartment) > Components and Components Location

Components

< FRONT >



< REAR >



※ USE THE DESIGNATED FUSE & RELAY ONLY

CIRCUIT

Description			(A)	Circuit Protected
FUSE	ABS		7.5A	ESC switch, ESC control module, ABS control module, Multipurpose check connector
	CLUSTER/ESCL		7.5A	Smart key control module, PDM, Sport mode switch, BCM, Instrument cluster (IND.), Multifunction switch (Remocon)
	ESCL(PDM-B)		10A	PDM, Smart key control module
	ESCL SW		10A	FOB holder, Start stop button switch
	START		10A	ECM, E/R junction box(start relay, sub start relay), Ignition lock switch, ICM relay box(B/Horn relay)
	P/OUTLET(FR)		15A	Front power outlet
	P/OUTLET		15A	Console power outlet
	AUDIO/ESCL		7.5A	Audio, Multi monitor, Power outside mirror switch, BCM, PDM, Smart key control module
	A/BAG		15A	SRS control module, PODS module, Telltale lamp
	T/SIG		10A	Hazard switch
	B/UP LP		10A	Back-up lamp switch (M/T), E/R junction box LH (B/UP LP relay)
	HAZARD		10A	Hazard switch, ICM Relay box (hazard relay)
	STOP LP		15A	Stop lamp switch
	AUTO SHIFT LOCK		7.5A	E/R junction box LH (Multipurpose check connector), Data link connector, Sport mode switch, Key solenoid
	P/SEAT(LH)		30A	Driver power seat switch
	DR LOCK		10A	DR LOCK/UNLOCK relay, ICM relay box (Two turn unlock relay)
	A/BAG IND		7.5A	Instrument cluster (Air bag IND.)
	ECU		10A	ECM, TCM, Stop lamp switch, sub start relay (A/T(G4KF)), Cruise clutch pedal position switch
	A/CON		7.5A	BCM, A/C control module, Incar temperature sensor, Blower relay
	WIPER(FR)		25A	Multifunction switch (Wiper), Front wiper motor, E/R junction box LH (WIPER (FR) relay)
	IGN/ESCL		7.5A	PDM, E/R junction box LH (H/LP(HI)/(LO) relay, Fog LP (FR) relay, Vacuum pump relay), Vacuum switch, Sunroof control module, Electro chromic mirror Auto head lamp leveling device sensor, Head lamp leveling device actuator LH/RH, Home link
	ESCL(PDM-A)		25A	PDM
	P/WDW(LH)		25A	Driver safety window module
	P/WDW(RH)		25A	Passenger safety window module
	SEAT HTR(DR/)		10A	Driver seat warmer switch
	SEAT HTR(ASS)		10A	Passenger seat warmer switch
	MIRROR HTD		7.5A	A/C control module, Power outside mirror LH/RH
	T/LID OPEN		15A	Trunk lid & Fuel filler door switch (Fuel filler door switch), T/LID relay
	AMP		20A	AMP
	TAIL(LH)		7.5A	Head lamp LH, Rear combination lamp LH
	TAIL(RH)		10A	Head lamp RH, Rear combination lamp RH, License lamp, Glove box lamp, Rheostat, Driver/Passenger seat warmer switch, ESC switch , Multi monitor Hazard switch, Audio,Power window main switch, Passenger power window switch, Sport mode switch, A/C control module, USB & AUX jack Instrument cluster (ILL.), Multifunction switch (Remocon)
	POWER CONNECTOR	AUDIO	15A	Audio
		MEMORY	10A	Trunk room lamp, Power outside mirror switch, MAP lamp, Auto light & Photo sensor/Security indicator, Multi monitor, RF receiver, Vanity lamp LH/RH, Home link Instrument cluster (MICOM, IND.), A/C control module, Rear parking assist buzzer, Ignition key ILL. & Door warning switch, BCM, Tire pressure monitoring module

※ USE THE DESIGNATED FUSE & RELAY ONLY

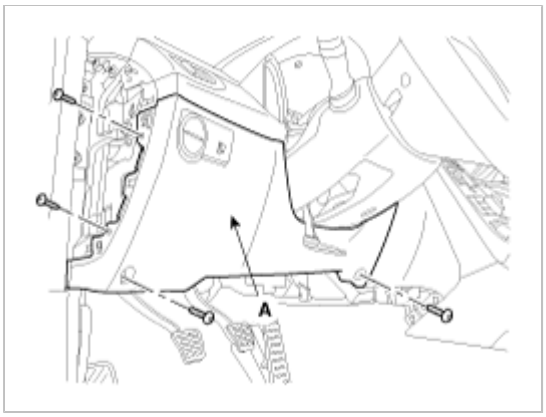
Fuse Inspection

1. Be sure there is no play in the fuse holders, and that the fuses are held securely.
2. Are the fuse capacities for each circuit correct?
3. Are there any blown fuses?
   If a fuse is to be replaced, be sure to use a new fuse of the same capacity. Always determine why the fuse blew first and completely eliminate the problem before installing a new fuse.

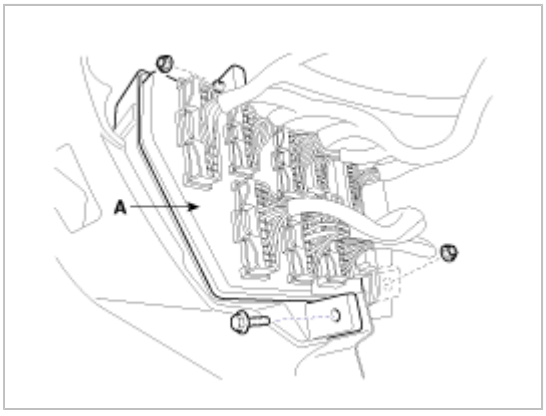
Replacement

Passenger Compartment Junction Box

1. Disconnect the negative(-) battery terminal.
2. Remove the crash pad lower panel(A).
   (Refer to BD group - "Crash pad")

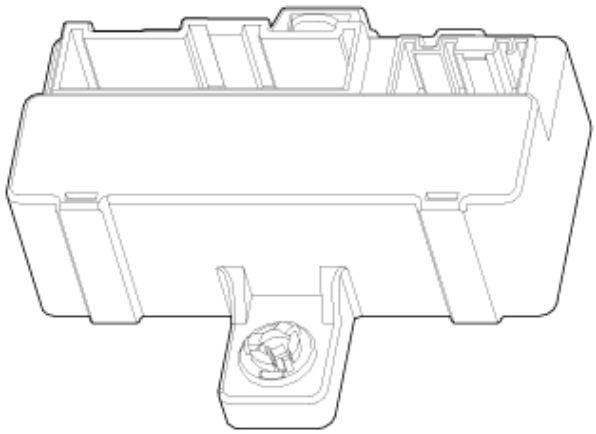


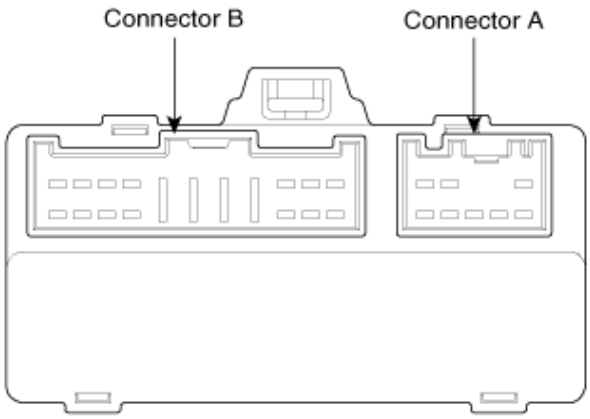
3. Remove the passenger compartment junction box(A) after loosening the mounting nut(2EA) and bolt(1EA) and disconnecting the connectors.

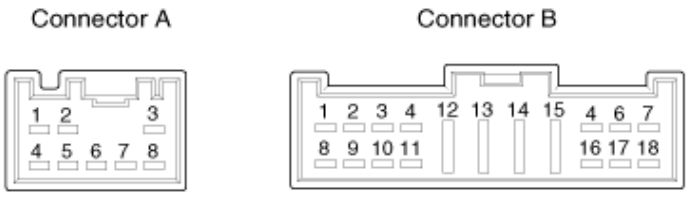


4. Installation is the reverse of removal.

Component

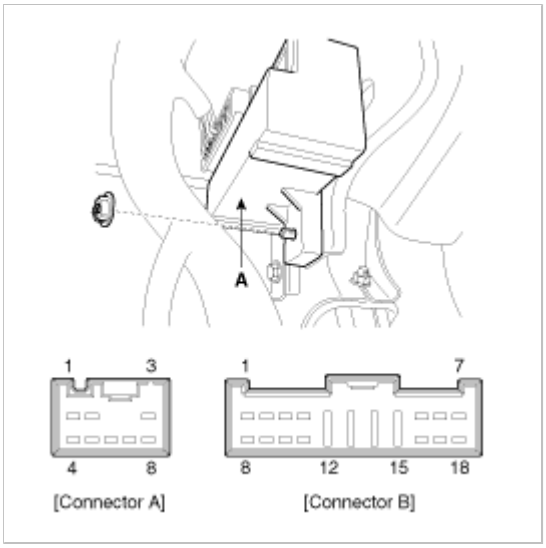



Connector B
Connector A


Connector A
Connector B
1 2 3
4 5 6 7 8
1 2 3 4 12 13 14 15 4 6 7
8 9 10 11 16 17 18

Description

The ICM is united with many kinds of relay and installed inside the driver crash pad lower panel.



Inspection

Hazard Lamp Relay

Check for continuity between the terminals.

1. There should be continuity between the No.13 and No.12 terminals when power and ground are connected to the No.13 and No.3 in the ICM relay B terminals.
2. There should be no continuity between the No13 and No.12 terminals when power is disconnected.

Burglar Alarm Horn

Check for continuity between the terminals.

1. There should be continuity between the No.8 and No.9 terminals when power and ground are connected to the No.8 and No.1 in the ICM relay B terminals.
2. There should be no continuity between the No.8 and No.9 terminals when power is disconnected.

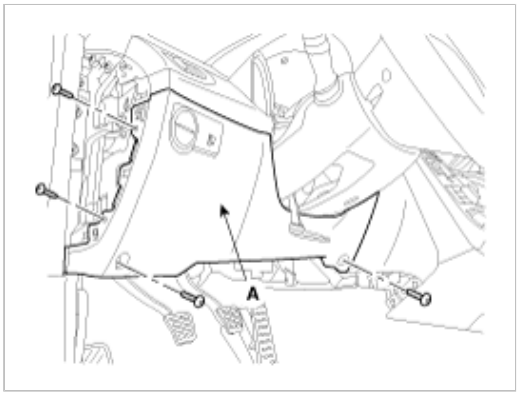
Burglar Alarm

Check for continuity between the terminals.

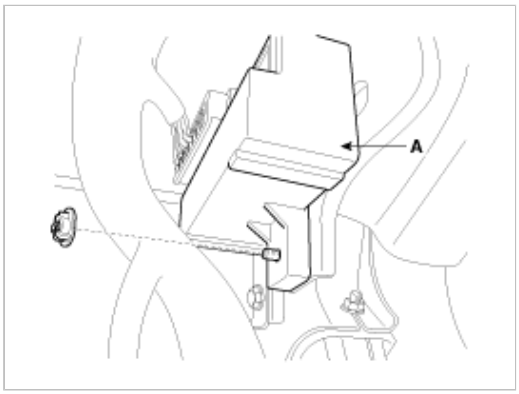
1. There should be no continuity between the No.11 and No.10 terminals when power and ground are connected to the No.11 and No.4 in the ICM relay B terminals.
2. There should be continuity between the No.11 and No.10 terminals when power is disconnected.

Removal

1. Disconnect the negative(-) battery terminal.
2. Remove the crash pad lower panel(A).
   (Refer to BD group - "Crash pad")



3. Remove the ICM relay box(A) after disconnecting the connector and removing the mounting nut.



Installation

1. Install the ICM relay box.
2. Install the crash pad lower panel.