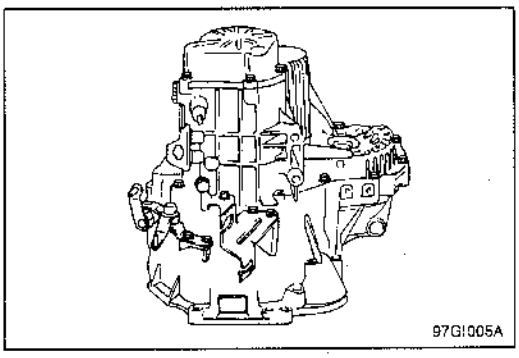
TRANSAXLE IDENTIFICATION NUMBER LOCATION

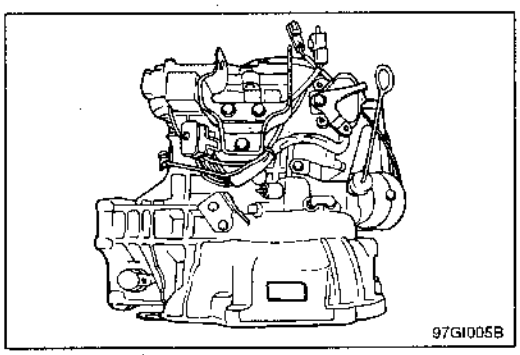


DESCRIPTION (MANUAL TRANSAXLE)

L	W	1	7	6	6	0	0	0	0	0	1
1	2	3				4					

1. Model
   L : M5G Series.
2. Product year
   W : 1998 X : 1999
3. Final gear ratio
   1766 : 3,882
   1665 : 4,063
4. Serial NO.

DESCRIPTION (AUTOMATIC TRANSAXLE)



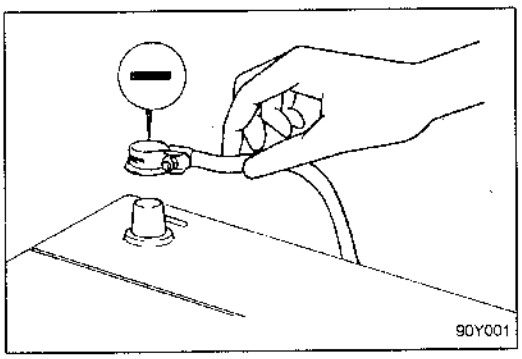
M	W	N	B	D	0	0	0	0	0	0	1
1	2	3	4		5	6					

1. Model
   C : KM 175-5 D : KM 175-6 H : F4A33
2. Product year
   W : 1998 X : 1999
3. Final gear ration
   F : 4.350 (KM 175-6) A : 3.958 (F4A33)
4. Classification of detail
   AD : 2.4 Liter Engine BD : 2.0/ 2.5 Liter Engine
5. Spare
6. Serial No.

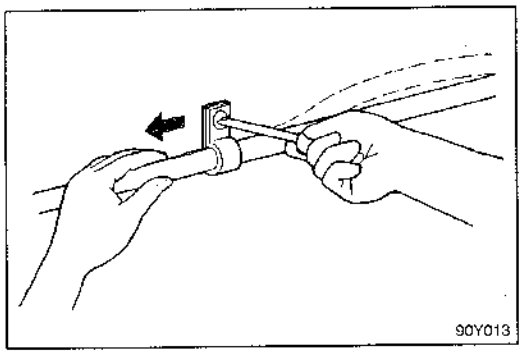
SERVICING THE ELECTRICAL SYSTEM

1. Prior to servicing the electrical system, be sure to turn off the ignition switch and disconnect the battery ground cable.

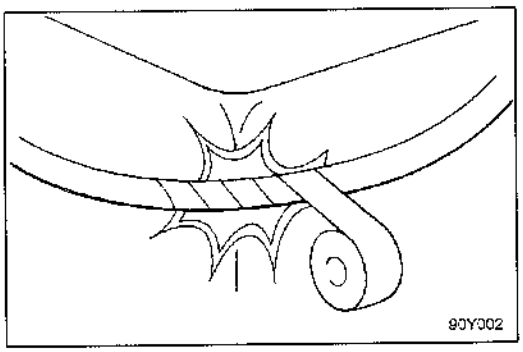
   NOTE
   In the course of MFI or ELC system diagnosis, when the battery cable is removed, any diagnostic code retained by the computer will be cleared.
   Therefore, if necessary, read the diagnostic codes before removing the battery cable.



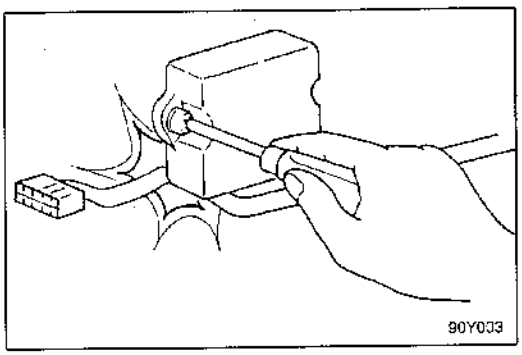
2. Secure the wiring harnesses by using clamps so that there is no slack. However, for any harness which passes to the engine or other vibrating parts of the vehicle, allow some slack within a range that does not allow the engine vibrations to cause the harness to come into contact with any of the surrounding parts, and then secure the harness by using a clamp.



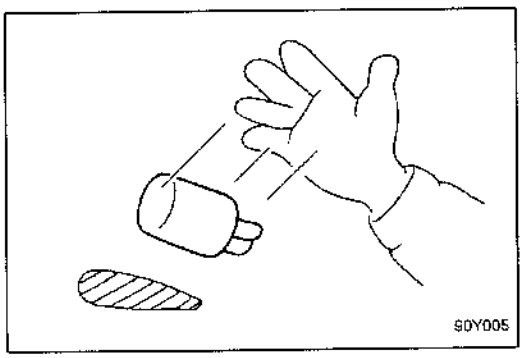
3. If any section of a wiring harness interferes with the edge of a part, or a corner, wrap the section of the harness with tape or something similar in order to protect it from damage.



4. When installing any of the vehicle parts, be careful not to pinch or damage any of the wiring harnesses.

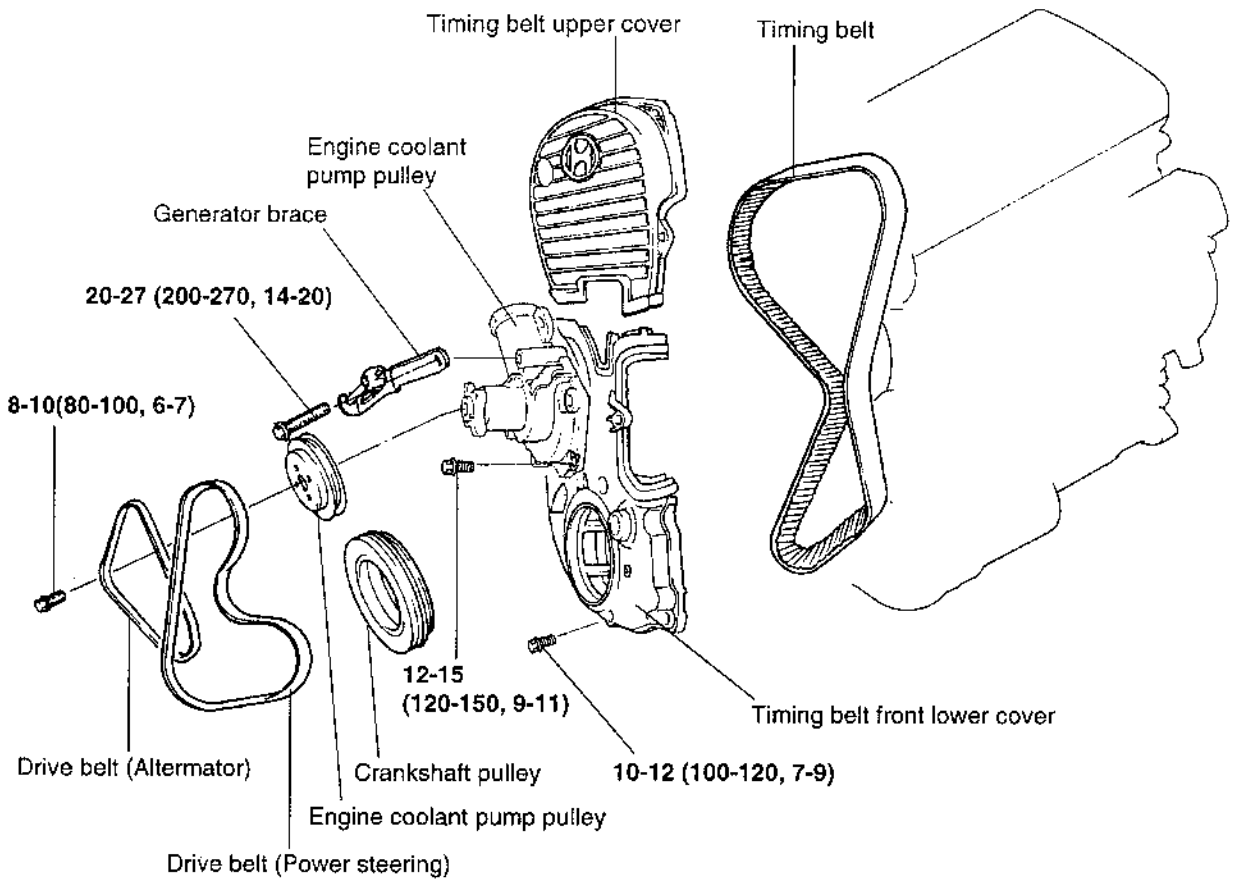


5. Never throw the relays, sensors and electrical parts, or expose them to strong shocks.



ENGINE COOLANT PUMP [FOR DOHC ENGINE]

COMPONENTS



TORQUE : Nm (kg.cm, lb.ft)

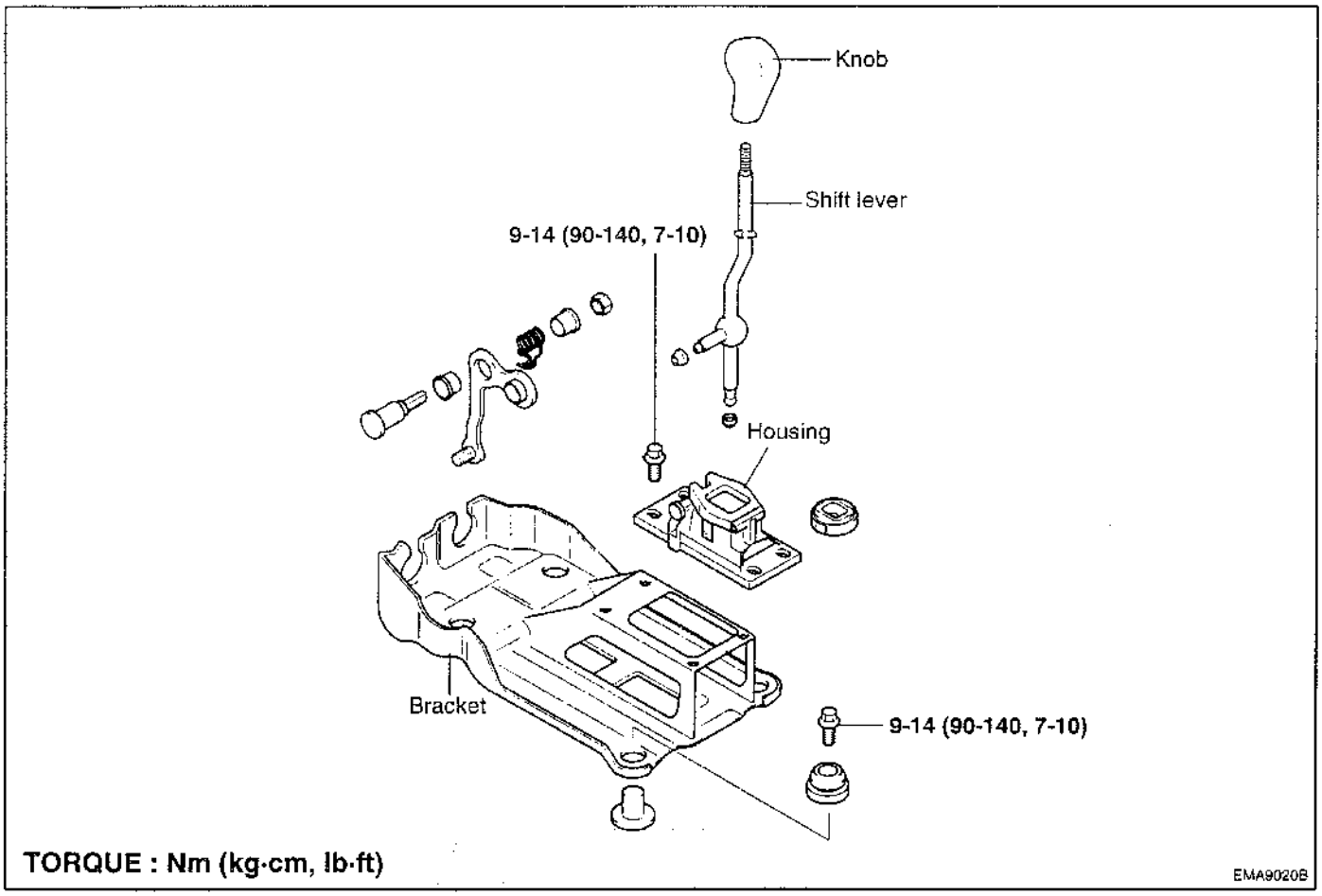
ECA9022A

EF DELTA ENGINE SELF-CHECK CONDITION AND MIL [2.5 V6]

Item No. (Fault code)	Detection Item	Check Item	Threshold
Mass Air Flow Sensor (P0100)	Voltage Range Check	Short to ground or Line Break	<3 kg/h
		Short to Battery	>700 kg/h
Intake Air Temperature Sensor (P0110)	Voltage Range Check	Short to ground or Line Break	>118°C
		Short to Battery	<-38°C
Engine Coolant Temperature Sensor (P0115)	Voltage Range Check	Short to ground or Line Break	>138°C
		Short to Battery	<-38°C
Throttle Position Sensor (P0120)	Voltage Range Check	Short to ground or Line Break	<0.14V
		Short to Battery	>4.86
Injector Valve (P0201) #1. INJ. ~ (P0206)#6. INJ.	Driver Stage Check	Short to ground or Line Break Short to Battery	
Fuel Pump Relay (P0230)	Driver Stage Check	Short to ground or Line Break Short to Battery	
Ignition (P0350)	Monitoring Ignition Coil Primary Voltage	Failure on 3 cyl. or more	
(P0351) - Cyl.#1 ~ (P0356) - Cyl.#6		No Ignition Spark	Over Voltage dur.=0
		Ignition Coil Primary Over Voltage Duration too short [over voltage = Vb + 3V]	Over Voltage dur. <α α = 0.6 ~ 0.67 ms at low rpm and low load a = 0.4 ~ 0.5 ms at high rpm and high load
		Signal Acquisition Input Failure	Over Voltage Duration of each Ignition Output overlapping below 4500 rpm
Canister Purge Solenoid (P0443)	Driver Stage Check	Short to ground or Line Break Short to Battery	

SHIFT LEVER ASSEMBLY

COMPONENTS



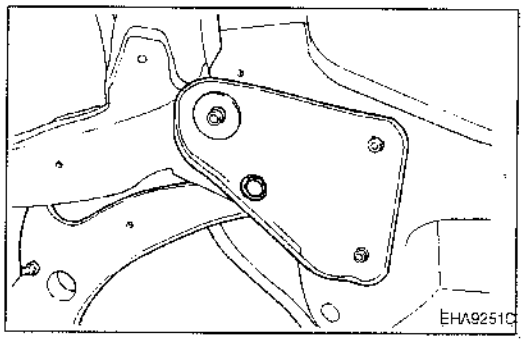
INSPECTION

1. Inspect the bushing for wear or damage.
2. Inspect the return spring for damage or deterioration.

REASSEMBLY

1. Apply multi-purpose grease to the sliding part of the bushings.
2. Reassembly is reverse of the disassembly.

8. Remove the bolt from the lower arm bush (G).



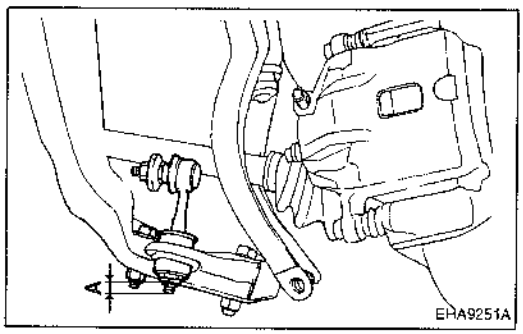
9. Remove the steering gear box (see steering system).
10. Remove the stabilizer bar.

INSTALLATION EHA92520

1. Install the stabilizer link so that the distance (A) is at the standard value.

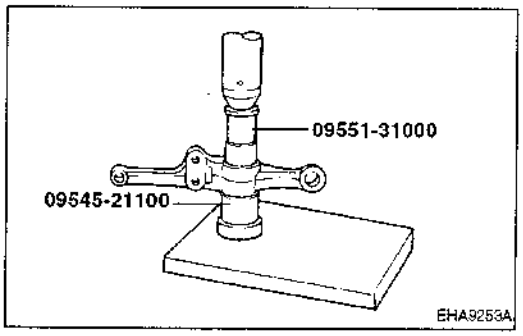
Standard value (A)	3~5 mm (0.118-0.197 in.)

2. Installation is reverse of removal.

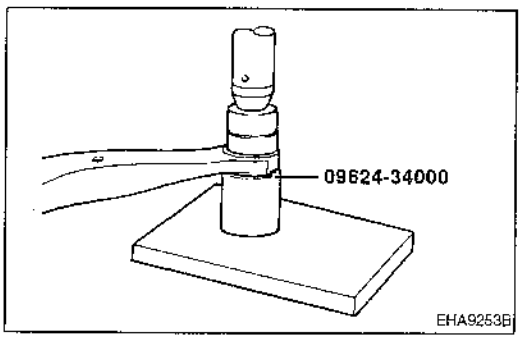


DISASSEMBLY EHA92530

1. Remove the connector from the lower arm.
2. Using the special tool, remove the shock absorber mounting bushing.



3. Using the special tool, remove the lower arm bushing (G).



ASSEMBLY

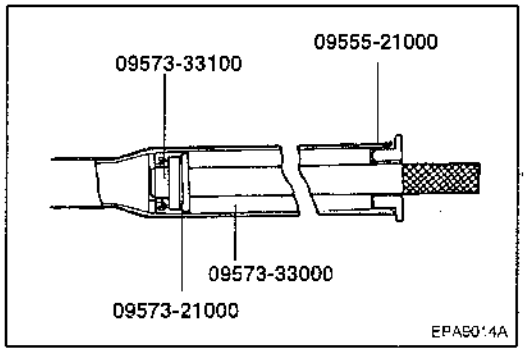
1. Apply the specified fluid to the entire surface of the oil seal and gear housing.

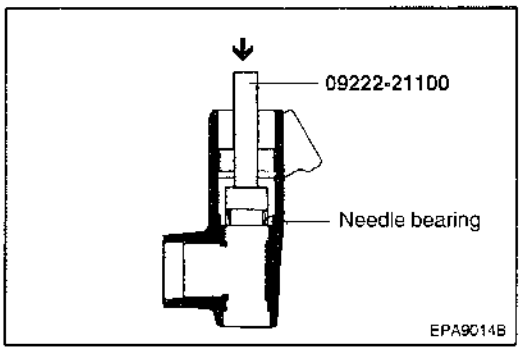
Recommended fluid	Power steering fluid (PSF-3)

2. Using the special tools (09555-21000, 09573-21000, 09573-33000, 09573-33100), install the backup washer and oil seal to the specified position in the gear housing.
3. Apply the specified grease to the entire surface of the needle bearing.

Recommended grease	Multipurpose grease SAE J310a, NLGI No.2

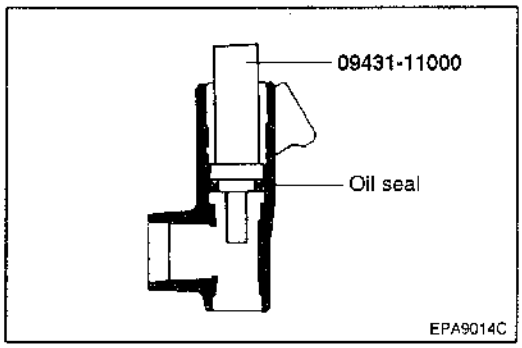
4. Install the needle bearing in the gear housing using special tool (09222-21100).





5. Set the scribed side of the oil seal (inner) in the special tool (09431-11000) and install in the gear housing.

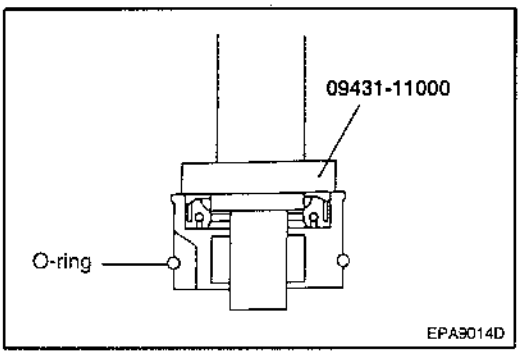
CAUTION
1) Note the direction of the oil seal.
2) Use a new oil seal.



6. Apply the specified fluid to the entire surface of the rack bushing oil seal.

Recommended fluid	Power steering fluid (PSF-3)

7. Install the oil seal on the rack bushing.
8. Apply the specified fluid to the entire surface of the O-ring and install to the rack bushing using the special tool (09431-11000).

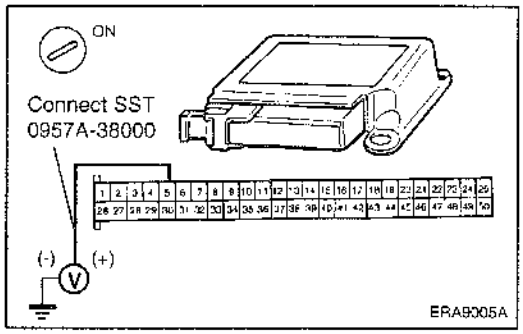


INSPECTION PROCEDURE

1. Check the fuse.

   [PREPARATION]
   1) Remove the fuse No. 11 and 14 from the junction block.
   2) Inspect the state of fuse.
   3) Replace if necessary.

2. Check SRS warning lamp circuit.



   [PREPARATION]
   1) Connect negative (-) terminal cable to the battery.
   2) Turn ignition switch to ON.

   [CHECK]
   1) Measure voltage of harness side connector of SRSCM.

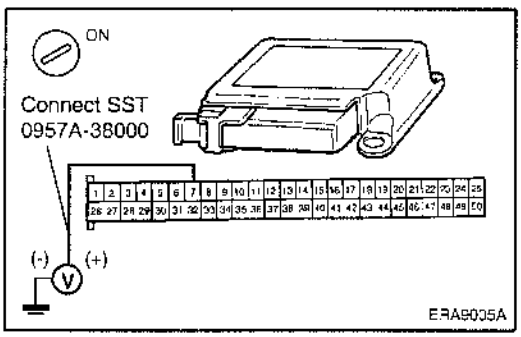
      Voltage : 10-16.5 V

   NG → Check SRS warning light bulb/repair SRS warning light circuit.

   OK ↓

   2) Check SRS SRI (Service Reminder Indicator).

      OK : SRS SRI ON

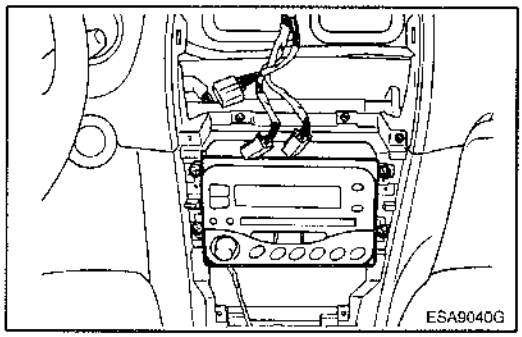


   NG → If no fault is found in wiring or connector, replace the SRSCM.

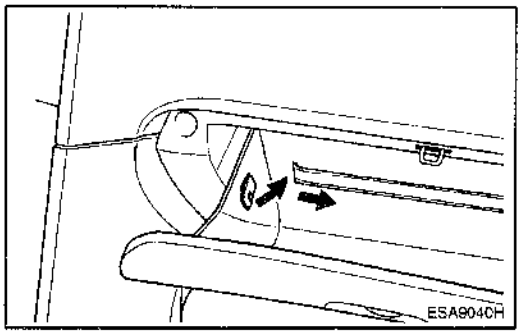
   OK ↓

   From the result of the above inspection, the malfunctioning part can now be considered normal.

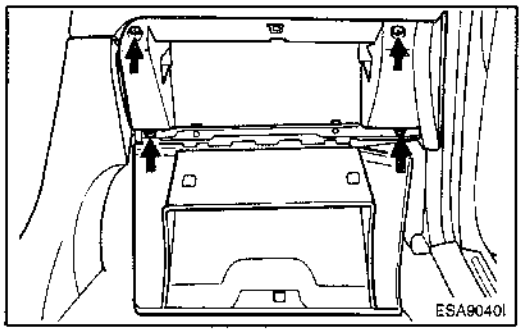
6. Remove the audio unit.



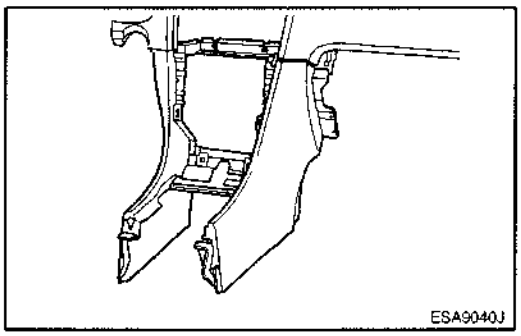
7. Remove the glove box housing.



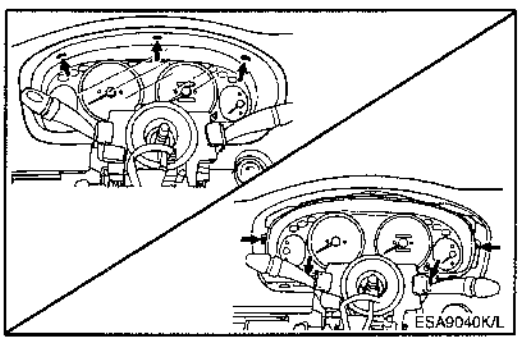
8. Remove the lower crash pad.



9. Remove the crash pad center panel.

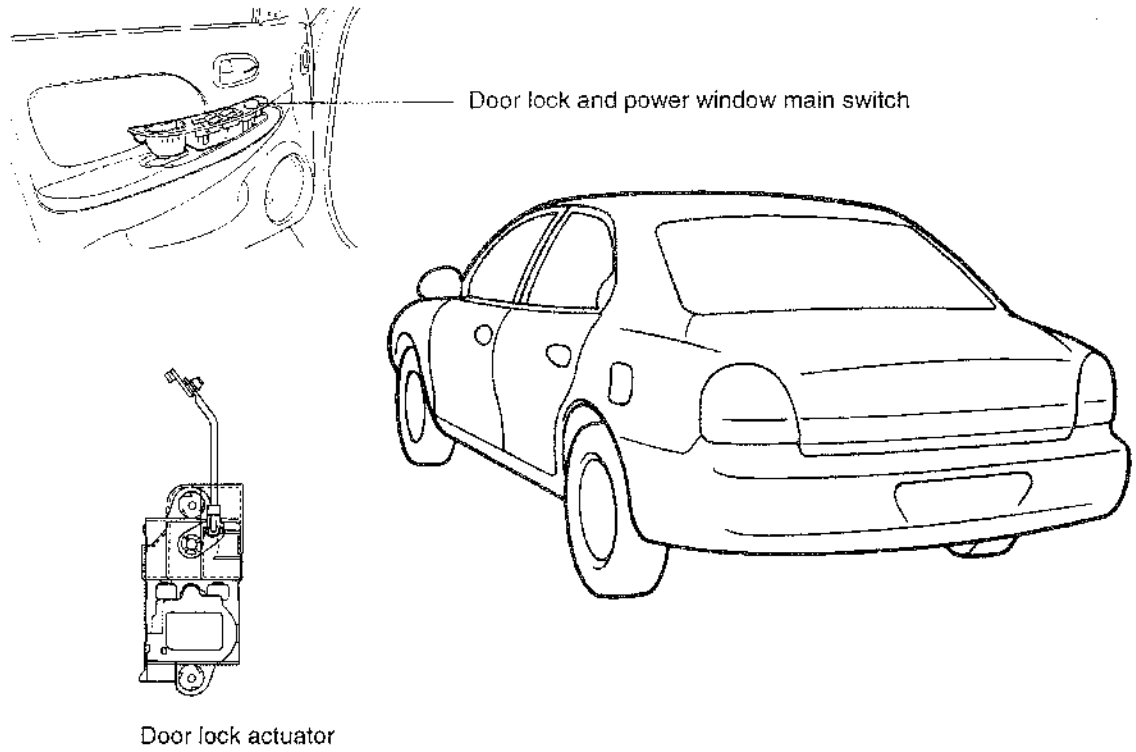


10. Remove the cluster facia panel and cluster.



POWER DOOR LOCK

COMPONENTS



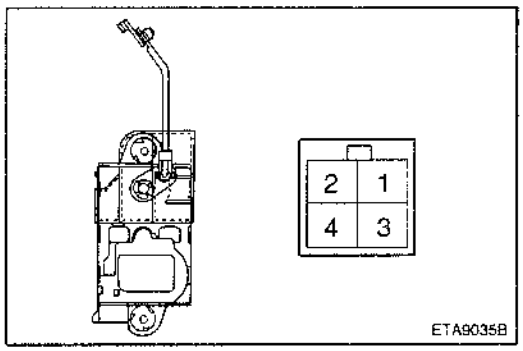
ETA9035A\ETA9035B\ESA9015B

INSPECTION OF COMPONENTS

Door lock control actuator

1. Disconnect the actuator connector from the wiring harness.
2. Apply battery voltage (DC 12 V) to each terminal as shown in the table below and confirm that the actuator makes corresponding operation.

Terminal / Position	1	3
Push (Unlock)	⊕	⊖
Pull (Lock)	⊖	⊕



AIR CONDITIONING SERVICE

DISCHARGING THE REFRIGERATION SYSTEM

Federal regulations require that the discharging of R-134a refrigerant be performed by a licensed technician using only an approved recovery and/or recycling system. Do not discharge R-134a refrigerant into the atmosphere. When discharging the refrigerant system, always follow the recovery or recycling system equipment manufacturer's instructions.

SAFETY PRECAUTIONS

1. The R-134a liquid refrigerant is highly volatile. A drop on the skin of your hand could result in localized frostbite. When handling the refrigerant, be sure to wear gloves.

2. If the refrigerant splashes into your eyes, wash them with clean water immediately. It is standard practice to wear goggles or glasses to protect your eyes, and gloves to protect your hands.
3. The R-134a container is a highly pressurized vessel. Never leave it in a hot place, and check that the storage temperature is below 52°C (126°F).

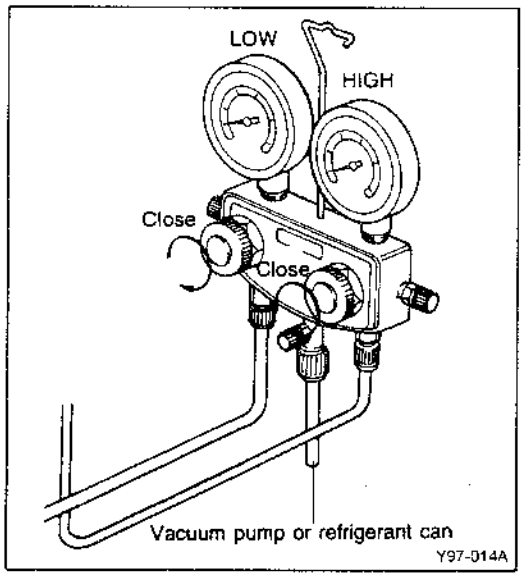
4. A halide leak detector is often used to check the system for refrigerant leakage. Bear in mind that R-134a, upon coming into contact with flame (this detector burns like propane to produce a small flame), produces phosgene, a toxic gas.

5. Use only recommended lubricant for R-134a A/C system and components. If lubricants other than recommended one used, system failure may occur.

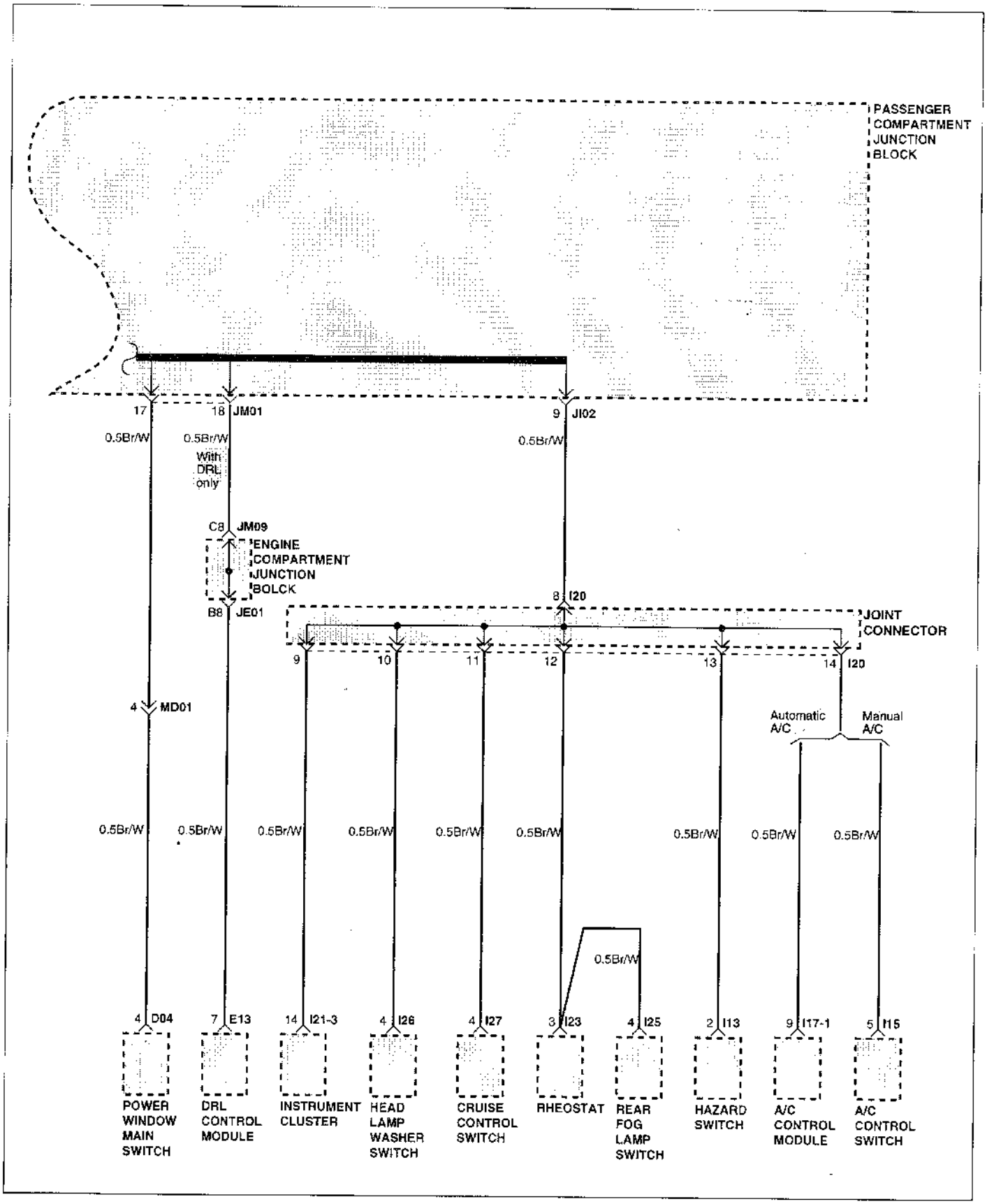
6. The PAG lubricant absorbs moisture from the atmosphere at a exceptionally fast rate and moisture can damage the A/C system, therefore the following precautions must be observed:

   - When removing refrigerant components from a vehicle, cap immediately the components to prevent A/C system from the entry of moisture.
   - When installing refrigerant components to a vehicle, do not remove the cap until just before connecting the components.
   - Complete the connection of all refrigerant tubes and hoses without delay to prevent the A/C system from entry of moisture.
   - Use the recommended lubricant from a sealed container only.

7. If accidental system discharge occurs, ventilate the work area before resuming service.

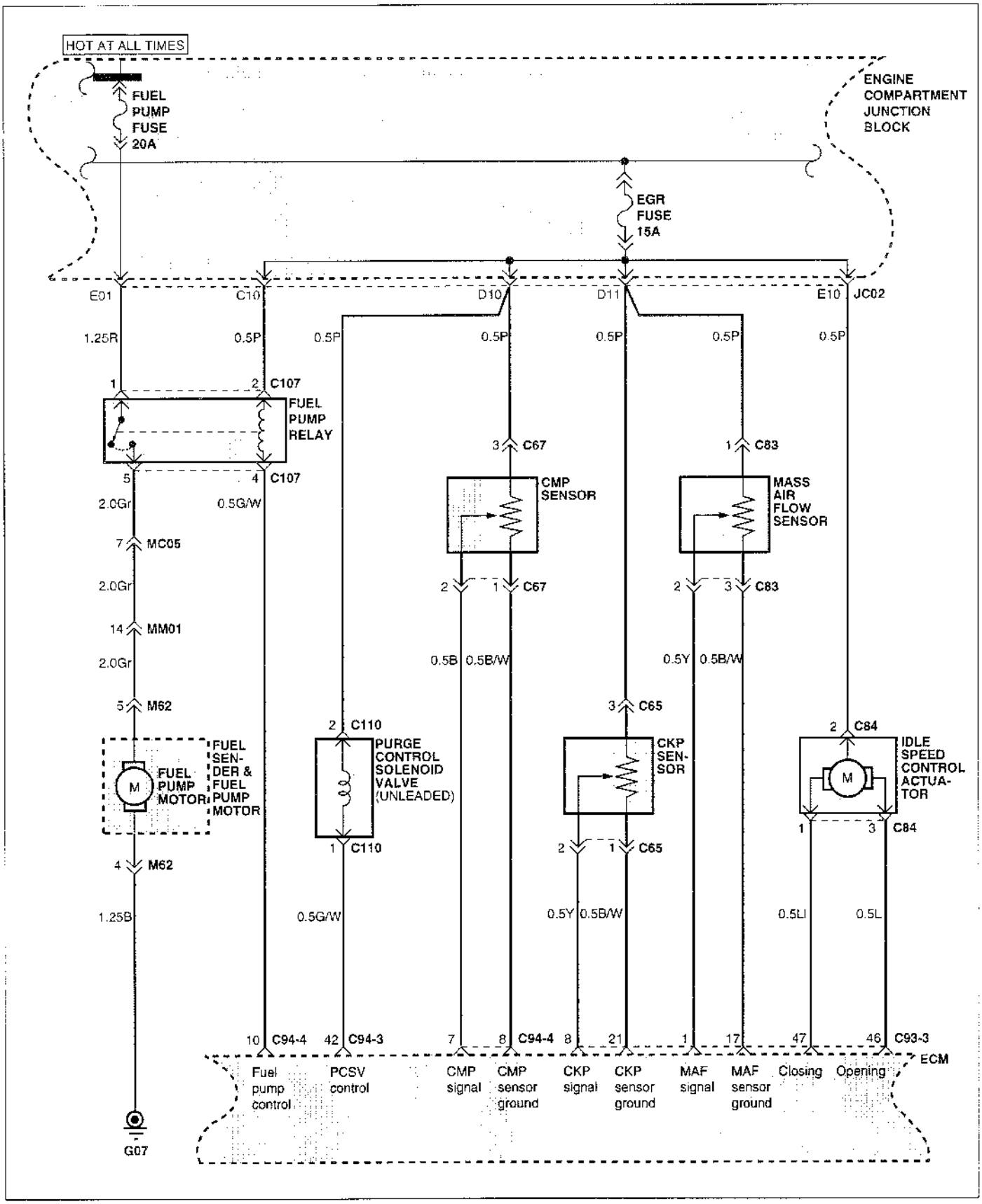


PASSENGER COMPARTMENT FUSE DETAILS (12)



E2A90C3L

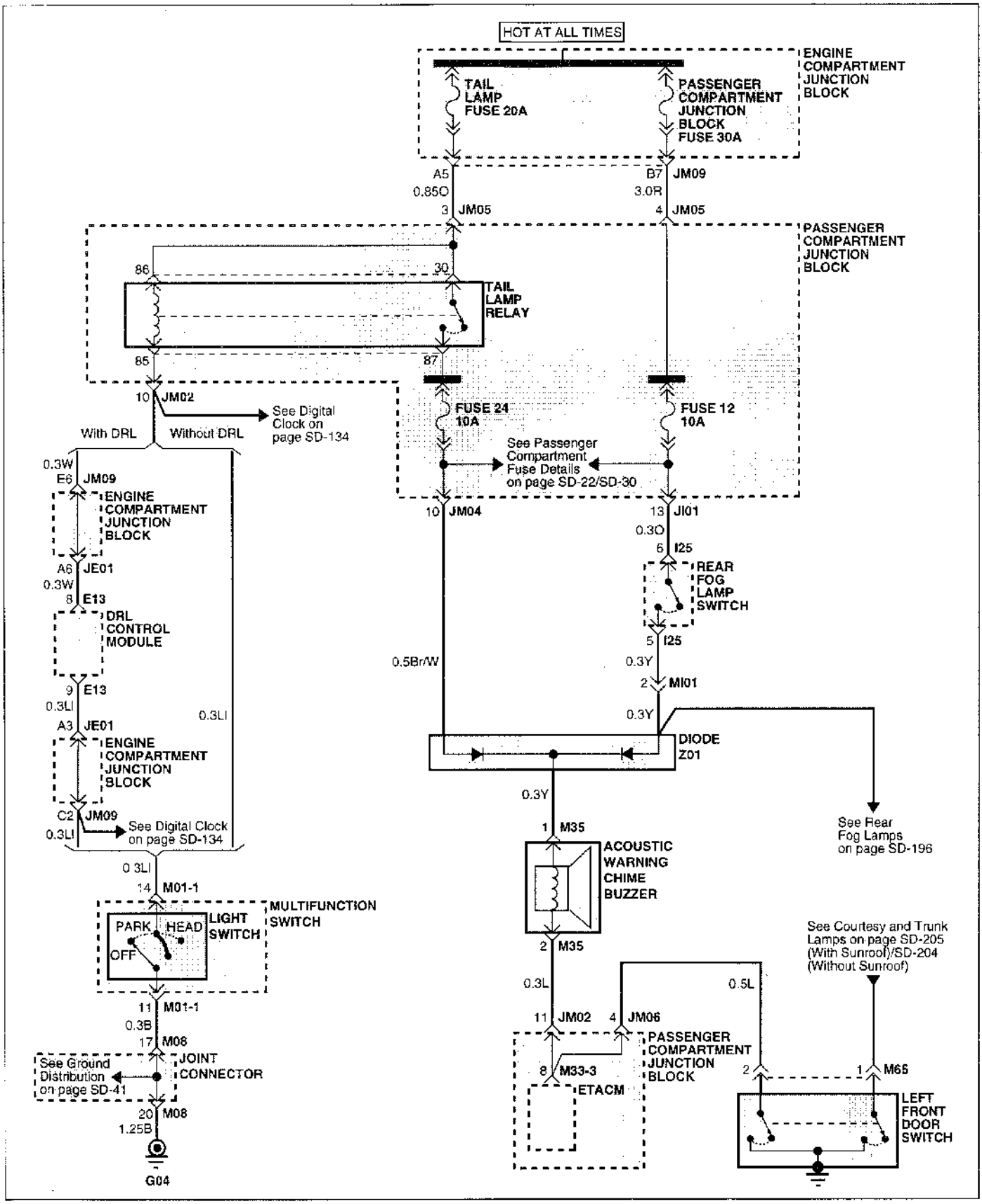
MFI CONTROL SYSTEM (V6) (3)



E2A9017C

ACOUSTIC WARNING SYSTEM E2A90380

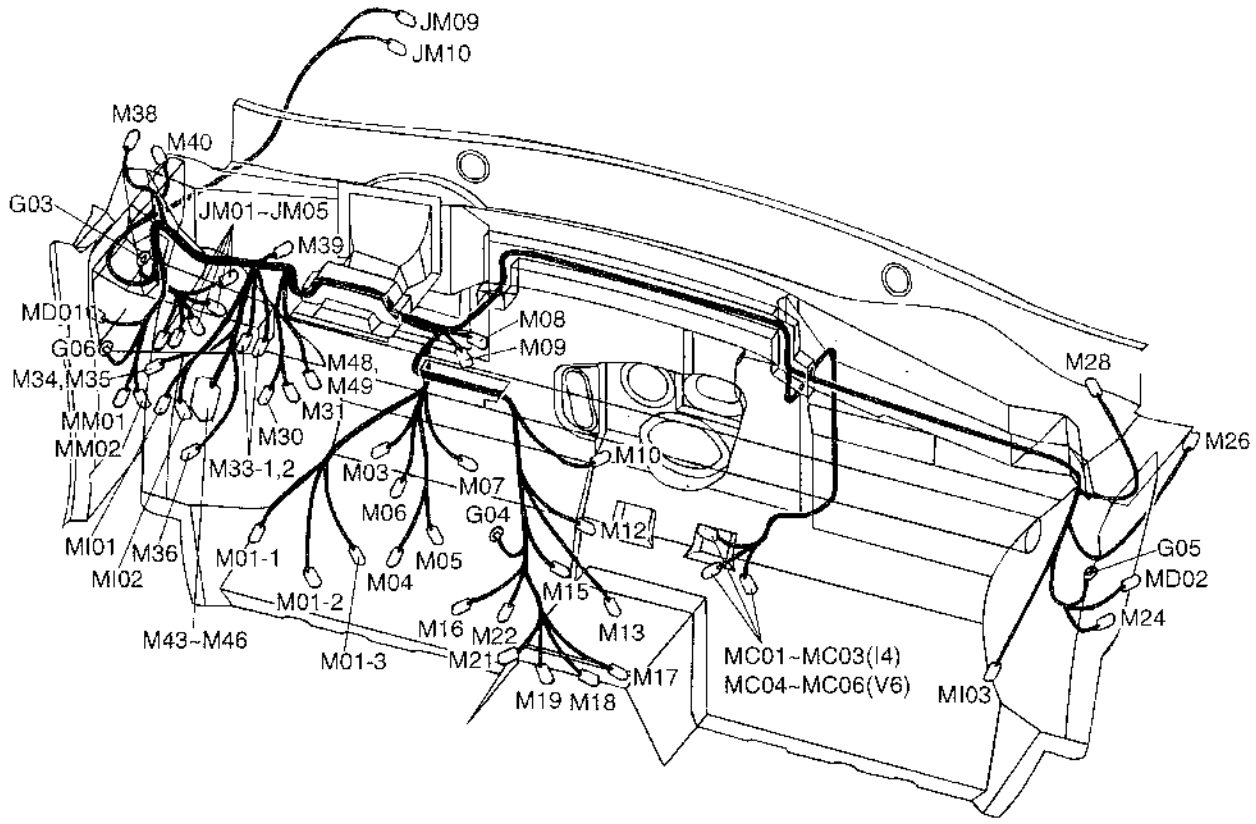
ACOUSTIC WARNING SYSTEM (1)

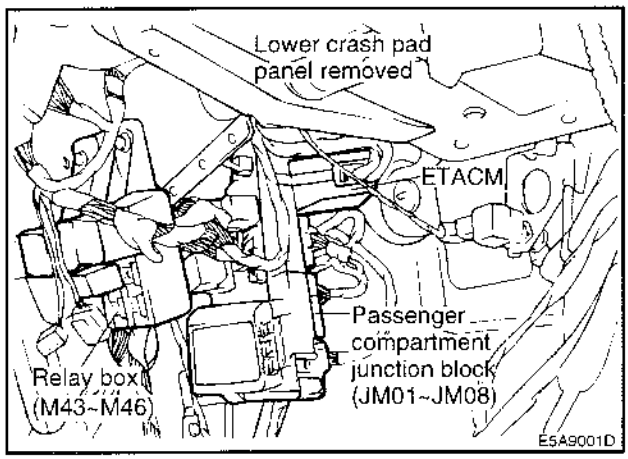


E2A9038A

MAIN HARNESS E5A90010

MAIN HARNESS (1)





E5A9001A