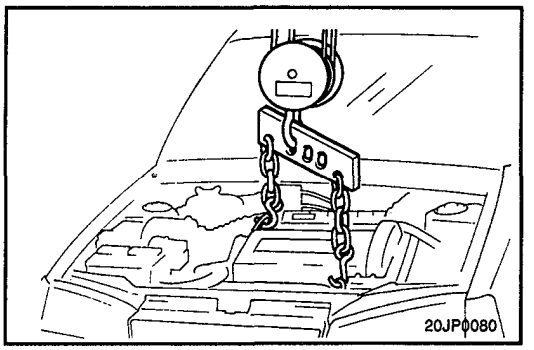
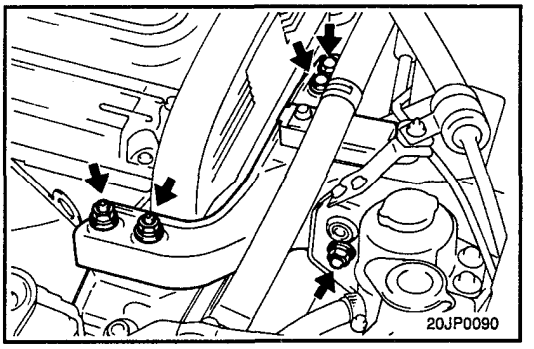
REMOVAL

Attach an engine hoist to the engine hooks, and raise just enough so that there is no pressure on the insulators.



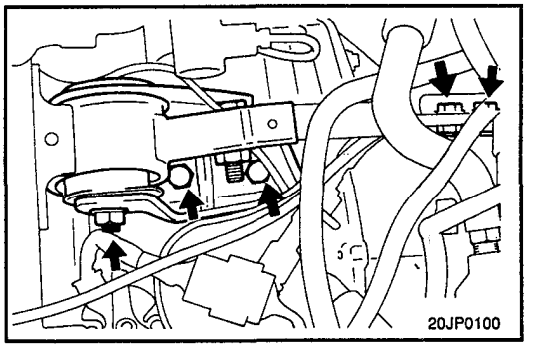
Engine Mounting

1. Remove the engine mount insulator bolts.
2. Remove the engine mount bracket from the engine.

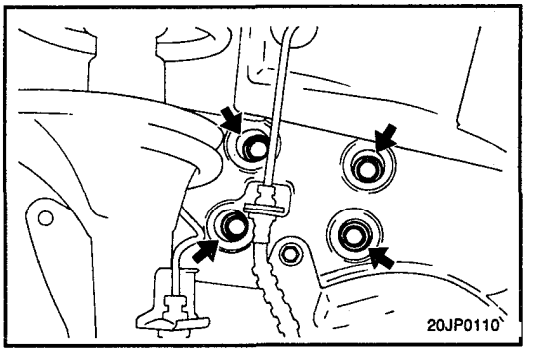


Transaxle Mounting

1. For vehicles with a 5-speed manual transaxle, remove the select control valve.
2. Remove the transaxle mount bolt.

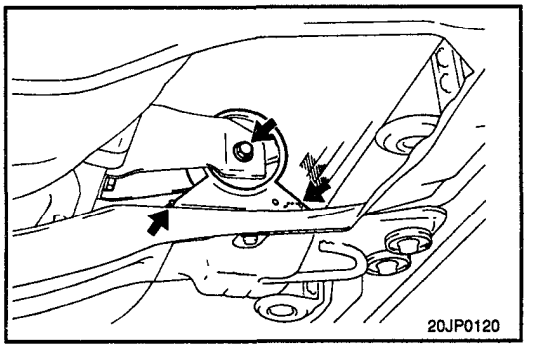


3. Detach the cap from the inside of the right fender shield, remove the transaxle mounting bolts.
4. Remove the transaxle bracket.



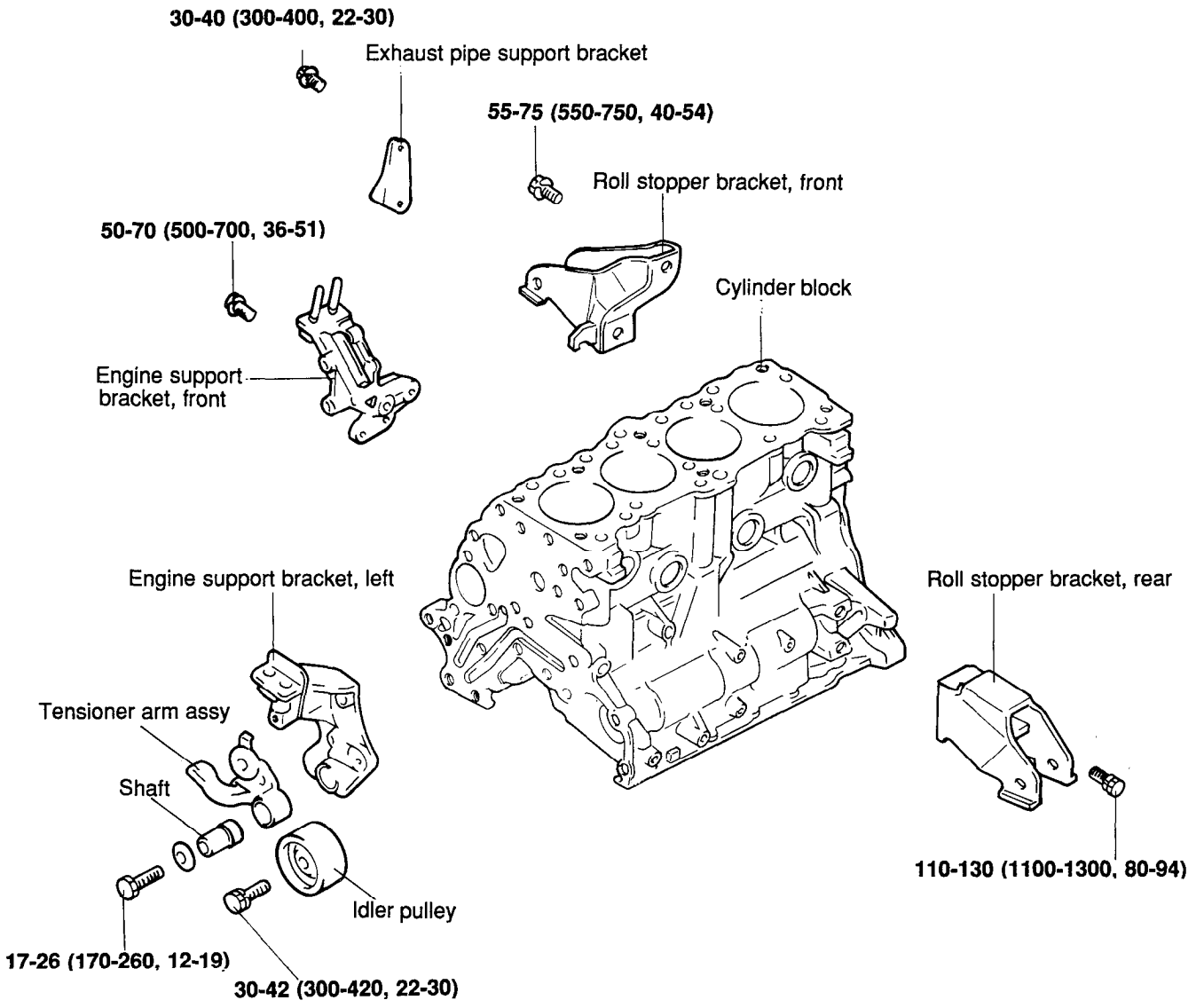
Front Roll Stopper

Remove the front bracket from the center member.



CYLINDER BLOCK

COMPONENTS

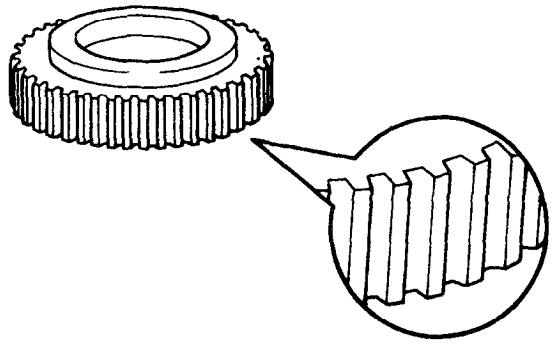


TORQUE : Nm (kg.cm, lb.ft)

REMOVAL

Remove the cylinder head, timing belt train, front case, flywheel, piston and crankshaft.
For further details, refer to the respective chapters.

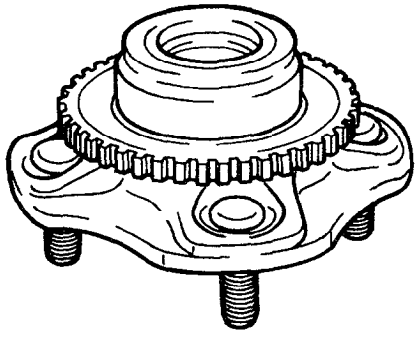
3. Check tone wheel and sensor installation



Front

- o Remove the front tone wheel
- o Check the tone wheel teeth for missing or scratches.

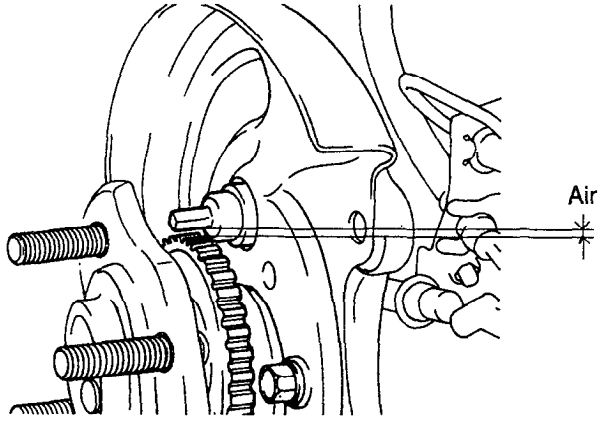
LIMIT *Tone wheel OK*



Rear

- o Check the tone wheel teeth for missing or scratches.

LIMIT Tone wheel OK



ALL

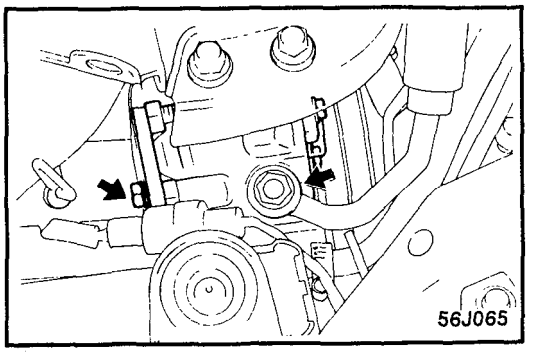
- o Check the air gap between the wheel speed sensors and the tone wheel teeth.

LIMIT FRONT : 0.2-1.1 mm(0.008-0.043in.)
REAR : 0.2-1.0 mm(0.008-0.039in.)

OK→ Re-connect the ABSCM and re-check

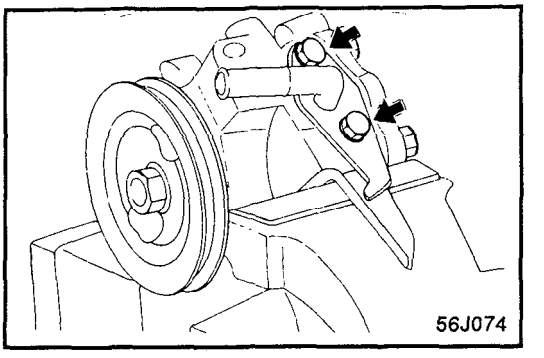
NG→ Replace the components.

3. Loosen the oil pump mounting bolts to remove the V-belt.
4. Remove the oil pump bracket mounting bolts and disconnect the pressure switch connector.

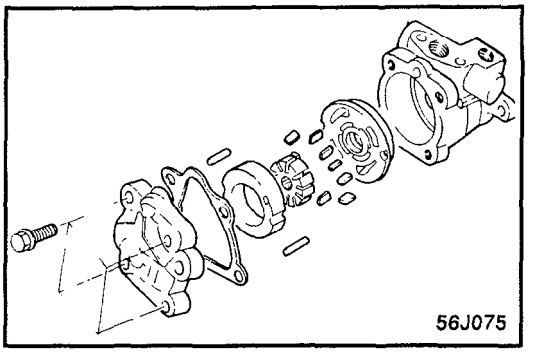


DISASSEMBLY

1. Remove the suction connector and the O-ring from the oil pump.

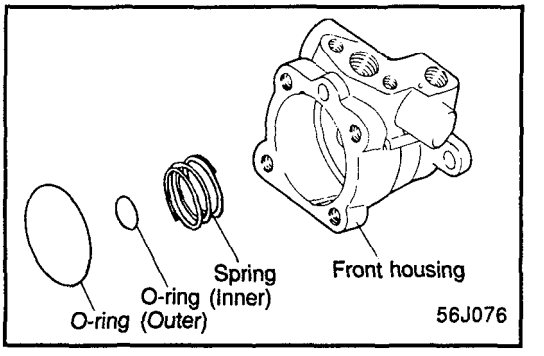


2. Remove the rear cover with the gasket and pins.
3. Remove the cam ring.
4. Remove the rotor and vanes.
5. Remove the front side plate.

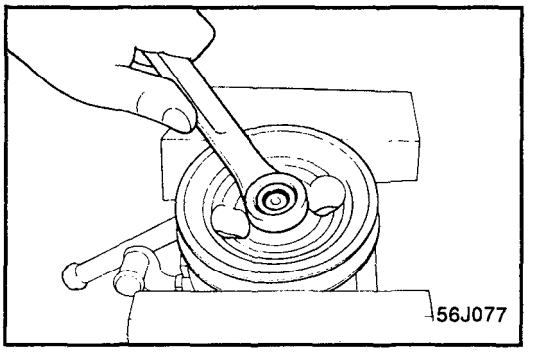


6. Remove the inner and outer O-ring.
7. Remove the spring.

NOTE
When assembling, use a new gasket and O-ring.

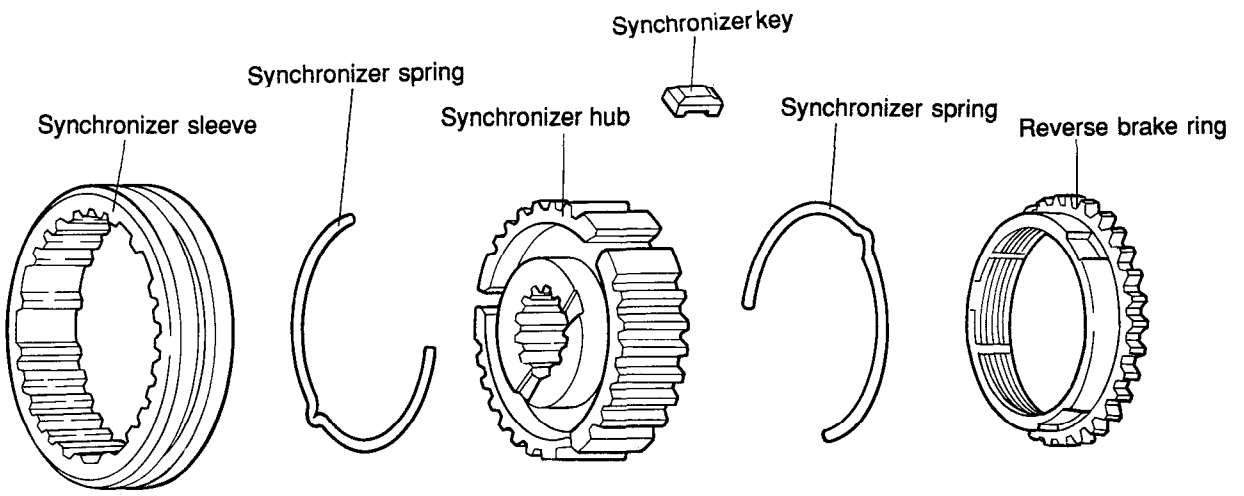


8. Remove the pulley nut with the spring washer.
9. Pull off the pulley and the woodruff key.



FIFTH SPEED SYNCHRONIZER ASSEMBLY

COMPONENTS

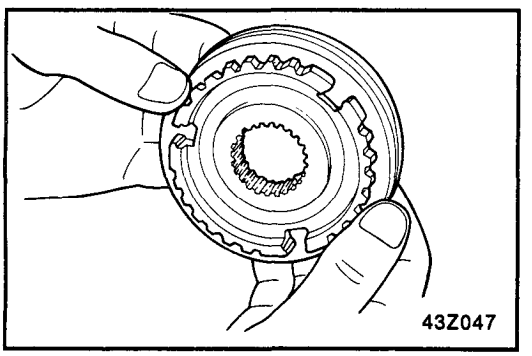


INSPECTION

SYNCHRONIZER SLEEVE AND HUB

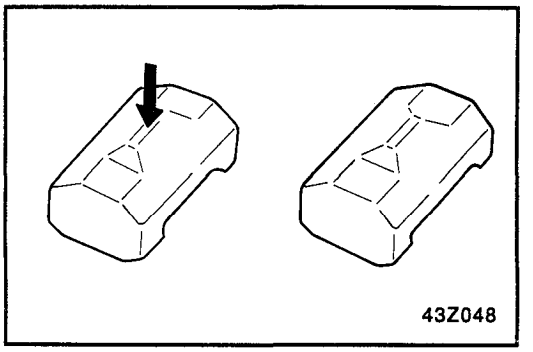
1. Combine the synchronizer sleeve and hub and check that they slide smoothly.
2. Check that the sleeve is free from-damage at its inside front and rear ends.
3. Check for wear of the hub front end (surface in contact with the fifth speed gear).

Caution
Replace the synchronizer hub and sleeve as a set.



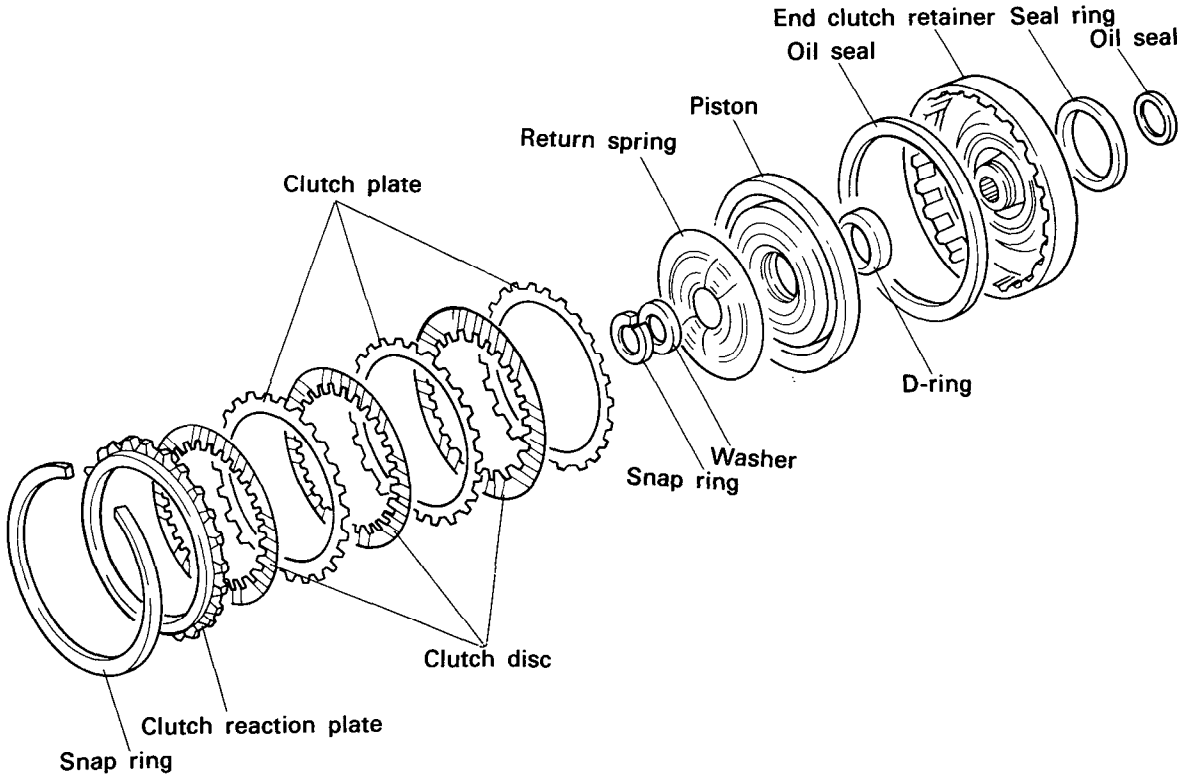
SYNCHRONIZER KEY AND SPRING

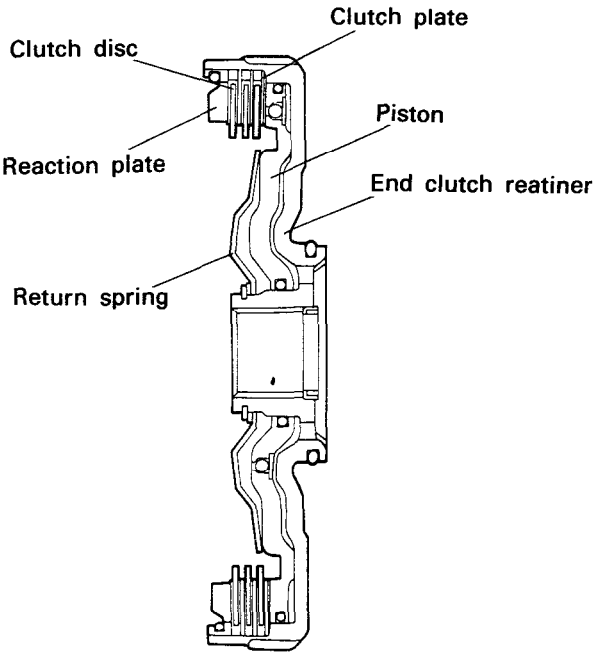
1. Check for wear of the synchronizer key center protrusion.
2. Check the spring for weakness, deformation and breakage.



END CLUTCH ASSEMBLY

COMPONENTS

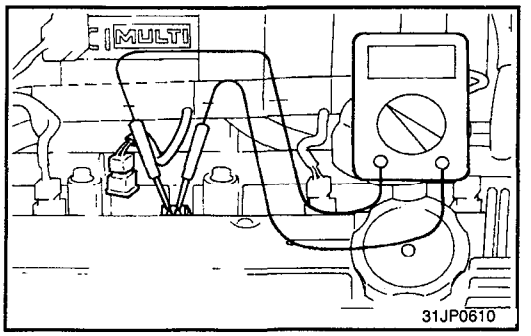




Resistance Measurement Between Terminals
1. Disconnect the connector at the injector.
2. Measure the resistance between terminals.

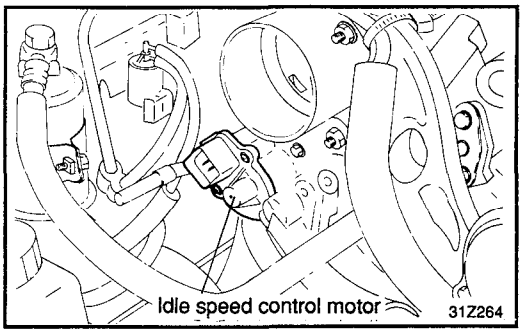
Standard value ..... 13-16 Ω [at 20°C (68°F)]

3. Connect the connector to the injector.



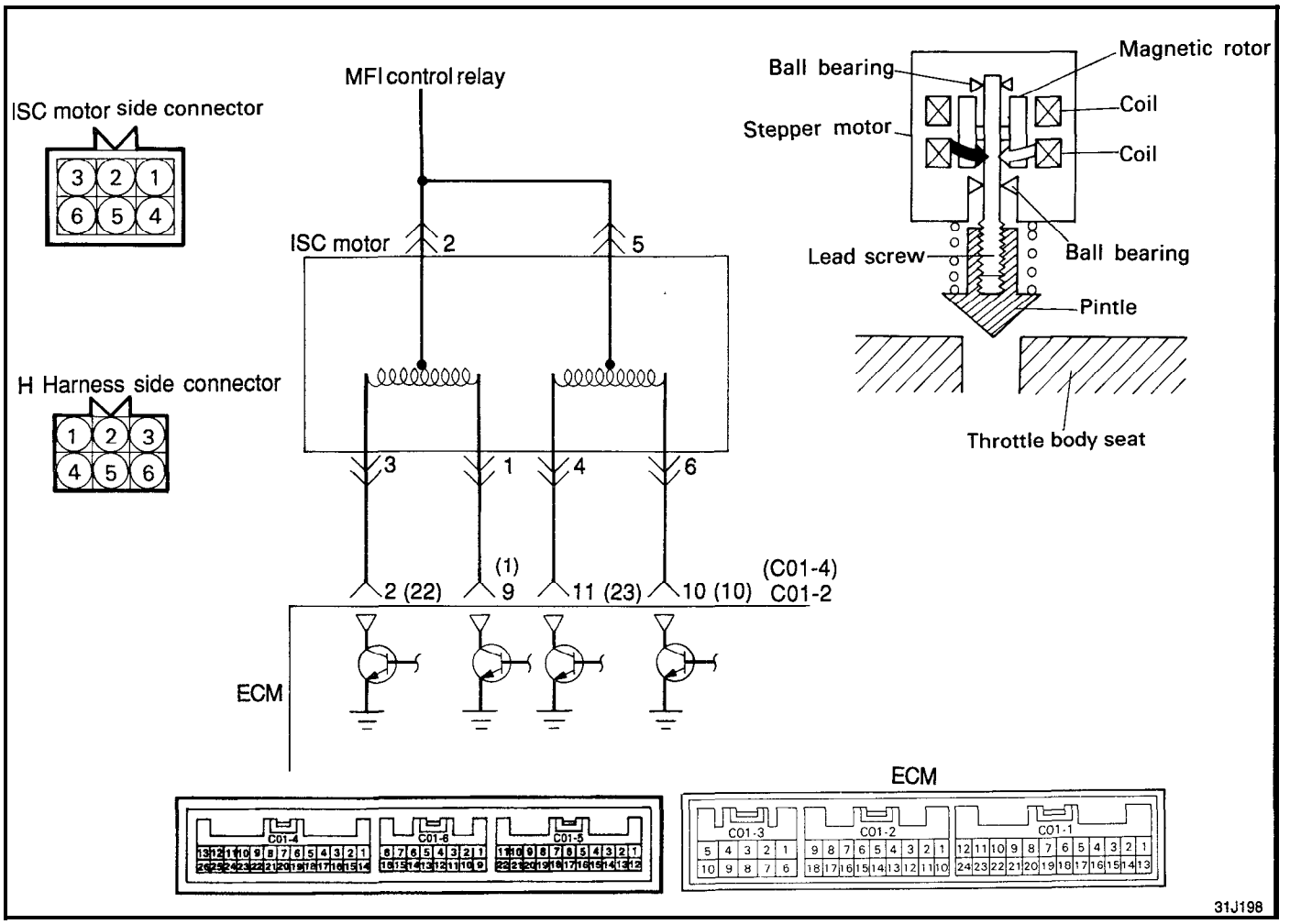
IDLE SPEED CONTROL MOTOR (STEPPER MOTOR TYPE)

The intake air volume at idle is controlled by opening or closing the motor valve provided in the air path that bypasses the throttle valve.



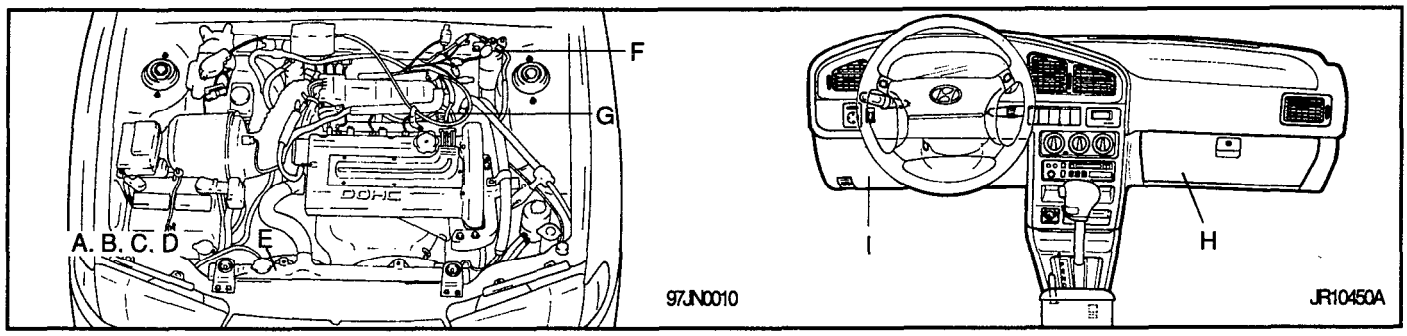
Circuit Diagram

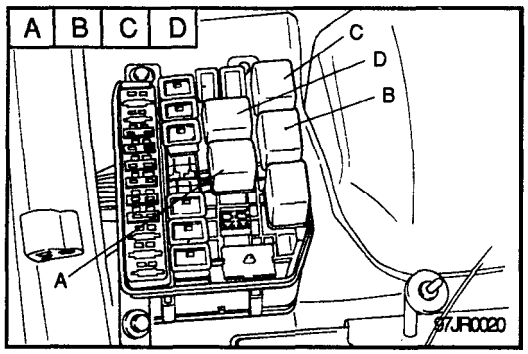
( ) : California only

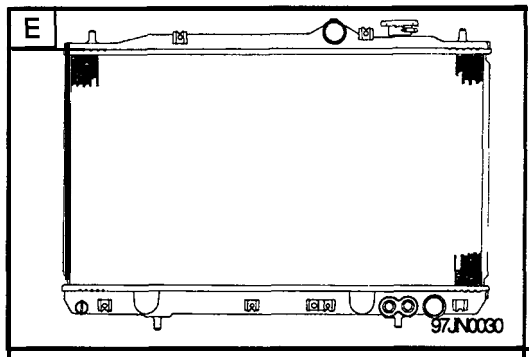


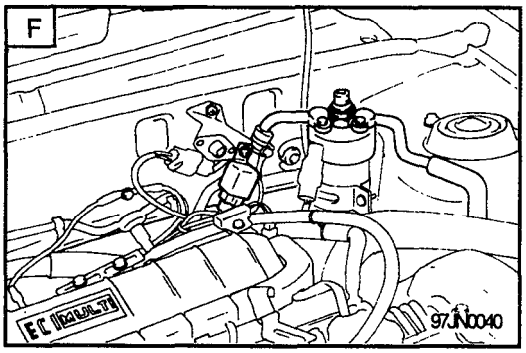
LOCATION OF COMPONENTS

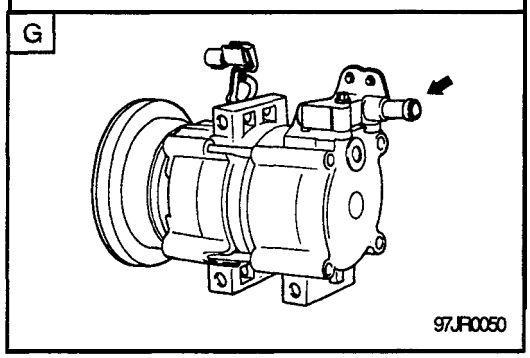
Name	Symbol	Name	Symbol
Air Conditioning relay	A	Dual pressure switch	F
Condenser fan relay	B	Pressure relief valve	G
Radiator fan control relay	C	Thermostat	H
Radiator fan relay	D	Blower relay	I
Thermo sensor	E		

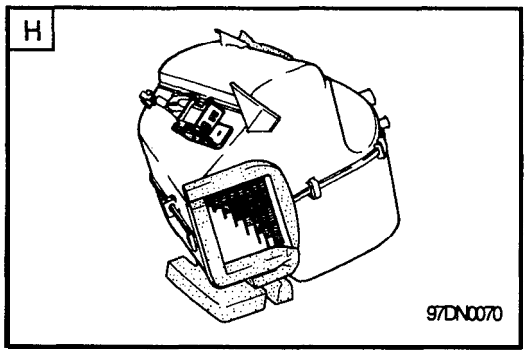


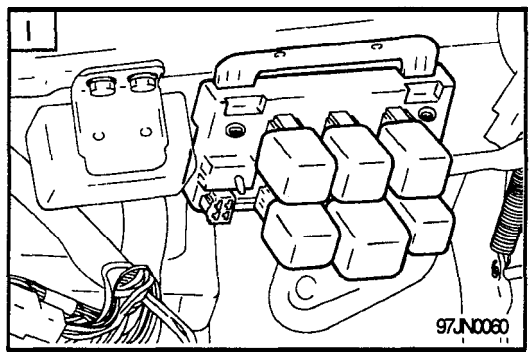






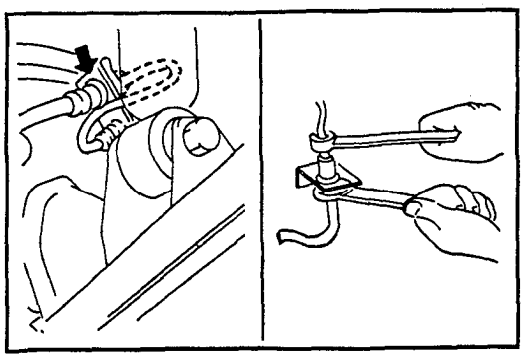




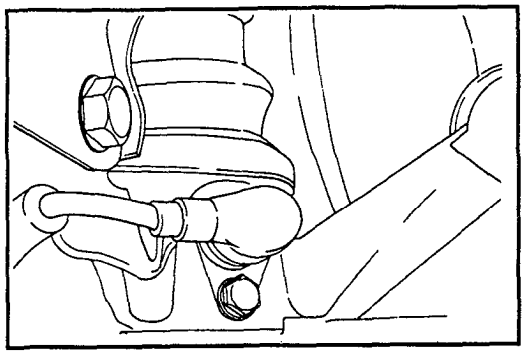


5. Remove the brake fluid hose.
6. Remove the caliper assembly

NOTE
Support the caliper with a wire or some other means to prevent damage to the brake hose.



7. Remove the ABS wheel speed sensor.



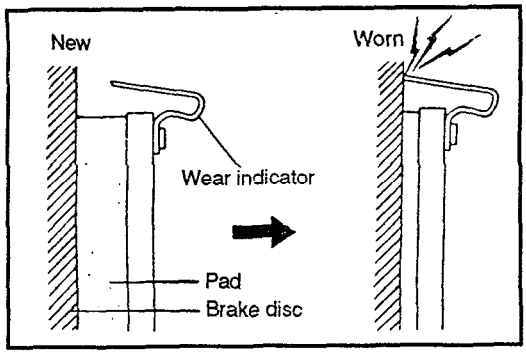
8. Remove the wheel bearing nut
9. Remove the wheel hub and dust cover.

INSPECTION

1. Check the pads for wear or oil contamination and replace if necessary.

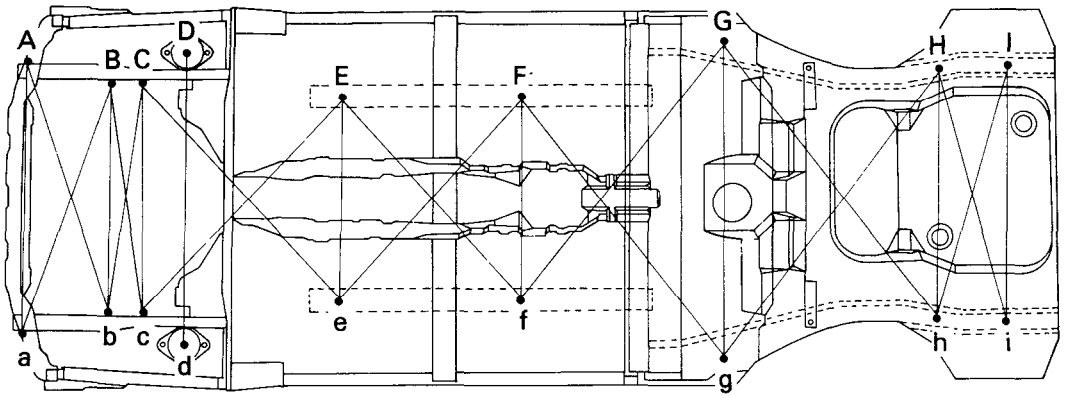
NOTE
The pads for the right and left wheels should be replaced at the same time

Pad thickness wear limit 0.8 mm

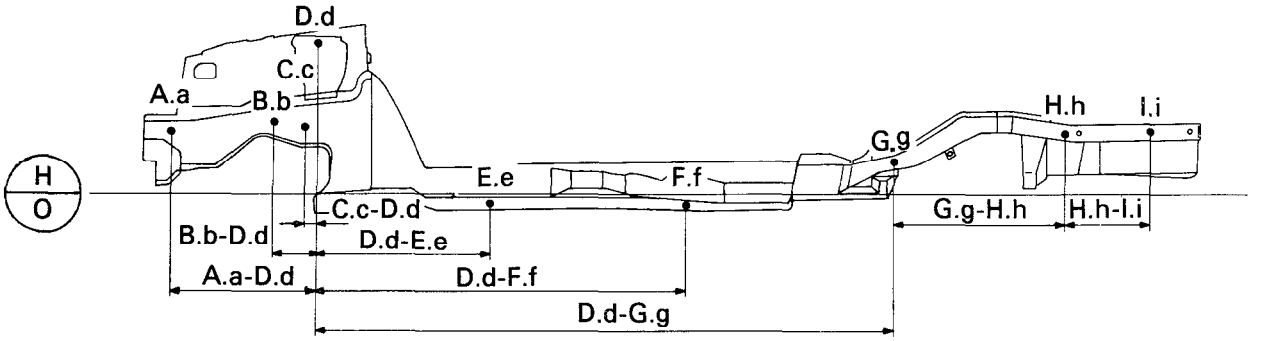


2. Check the leading and trailing shoe keys and retaining screw for damage, or wear. Replace the keys and retaining screw at the same time the pads are replaced.
3. Check for worn or damaged dust boots if dust or mud has entered the caliper assembly through this seal, the caliper assembly must be replaced or rebuilt.

UNDER BODY



SIDE BODY

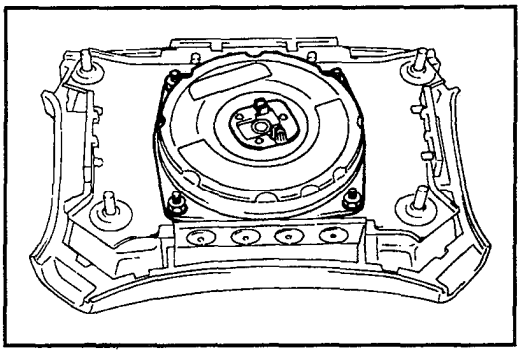


Point Symbol	A-a	B-b	C-c	D-d	E-e	F-f	G-g	H-h
Length (mm)	1001.8	889.6	878	1084	754	754	1080	858
Point Symbol	I-i	A-b	B-a	G-e	E-f	F-g	G-h	H-i
Length (mm)	1020	939.75	1060	1098.66	1264.46	1063.28	1162.16	994.05
Point Symbol	A-a	B,b	C,c	D,d	E,e	F,f	G,g	H,h
Length (mm)	231	296	270	572	-55	-67	142	210
Point Symbol	I,i	A,a-D,d	B,B-D,d	C,c-D,d	D,d-E,e	D,d-F,f	D,d-G,g	G,g-H,h
Length (mm)	198	661.5	186.5	36.5	623.5	1638.5	2134.5	2772.5
Point Symbol	H,h-I,i							
Length (mm)	3098.5							

REMOVAL AND INSTALLATION (WITH AIR BAG)

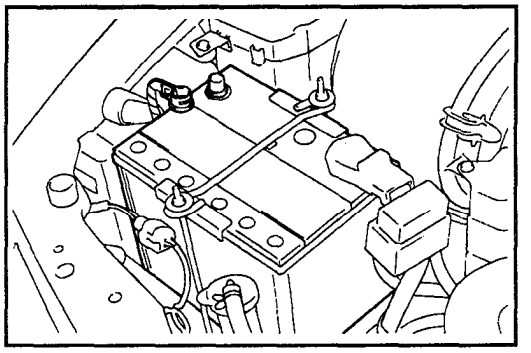
CAUTION

1. **Never attempt to disassemble or repair the air bag module or clock spring.**
   If faulty, replace it.
2. **Do not drop the air bag module or clock spring or allow contact with water, grease or oil.**
   Replace it if a dent, crack, deformation or rust are detected.
3. **The air bag module should be stored on a flat surface and placed so that the pad surface is facing upward.**
   Do not place anything on top of it.
4. **Do not expose the air bag module to temperature over 93°C (200°F).**
5. **After deployment of an air bag, replace the clock spring with a new one.**
6. **Wear gloves and safety glasses when handling an air bag that has already deployed.**
7. **An undeployed air bag module should only be disposed of in accordance with the procedures.**

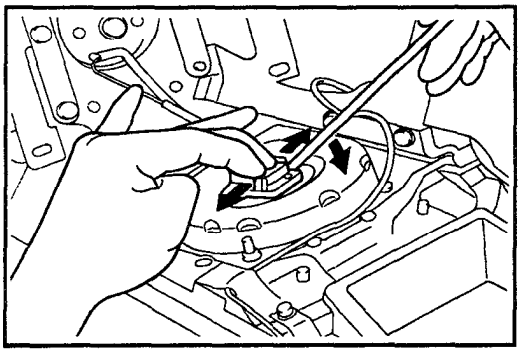


1. Disconnect the negative battery cable and keep secure from battery.

   CAUTION
   Wait at least 30 seconds after disconnecting the battery cable before doint any further work.

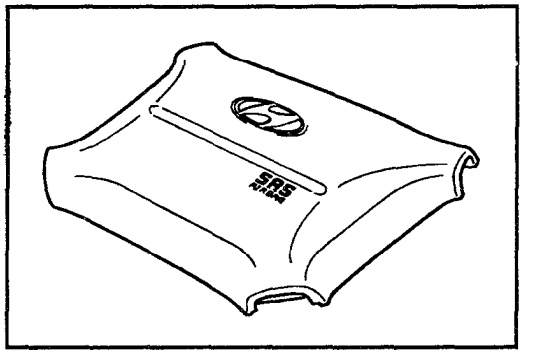


2. Remove the air bag module mounting nut using a socket wrench from the back side.
3. When disconnecting the connector of the clock spring from the air bag module, press the air bag's lock toward the outer side to spread it open. Use a screwdriver, as shown in the figure at the left, to pry so as to remove the connector gently.



CAUTION

- **When disconnecting the air bag module-clock spring connector, take care not to apply excessive force to it.**
- **The removed air bag module should be stored in a clean, dry place with the pa cover face up.**

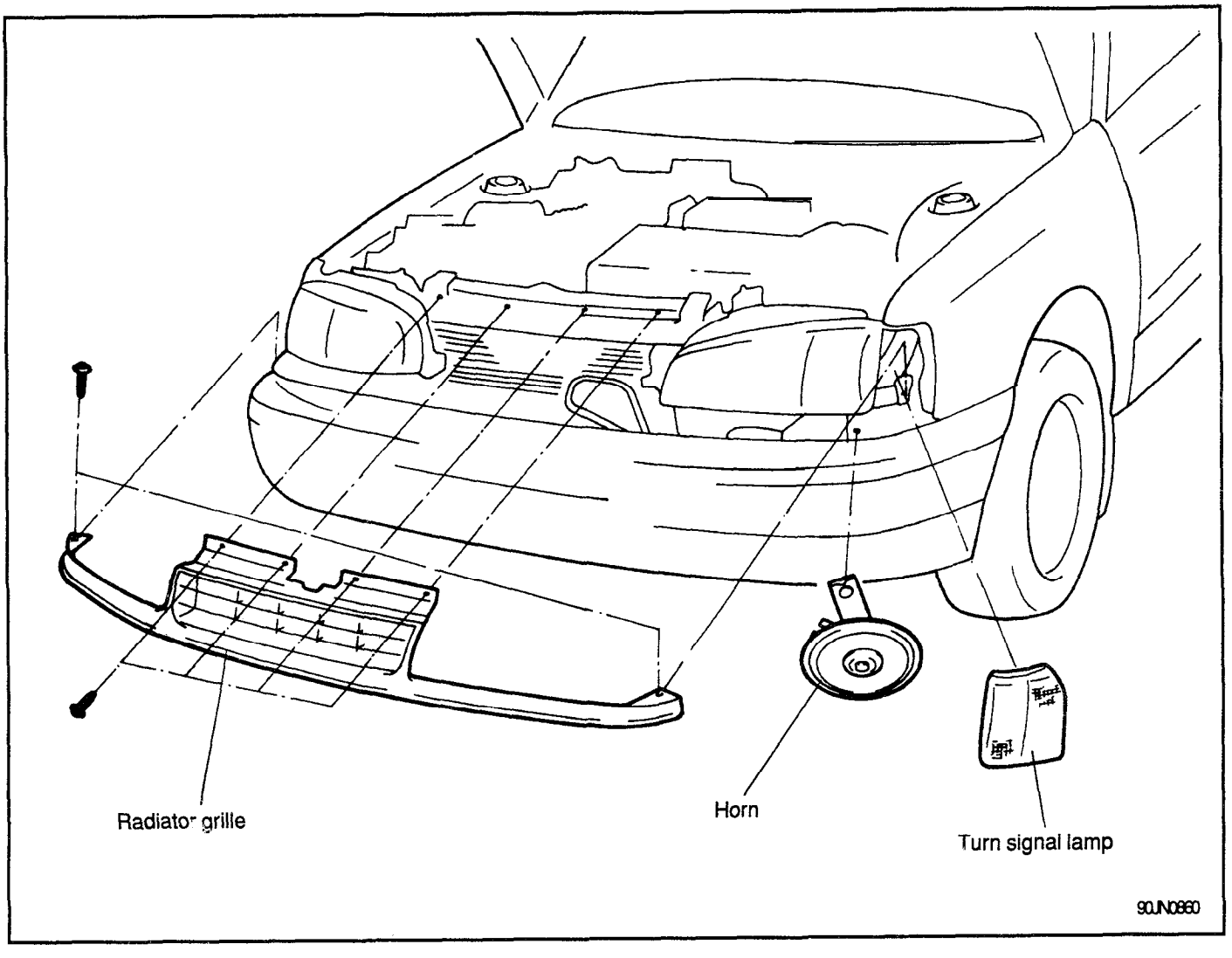


HORN

SPECIFICATIONS

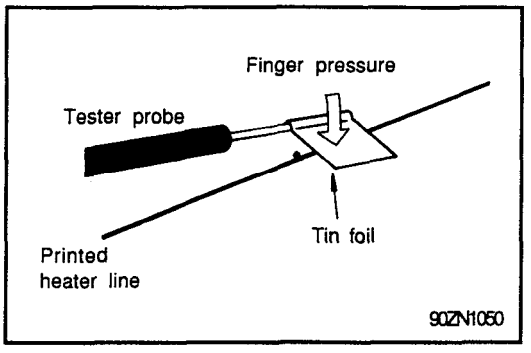
Items	Specifications
Type	Plate
Rated voltage	DC 12V
Power comsumption	Max. 3.5A (at DC 12V)
Sound level	110 ± 5 dB (atDC12V)
Horn effective voltage	DC 10V ~ DC 14.5V
Operating temperature range	-40°C ~ +8O°C (-104°F ~ +176°F)
Fundmental frequency	
Low pitch	350 ± 20 Hz
High pitch	415 ± 20 Hz

REMOVAL AND INSTALLATION

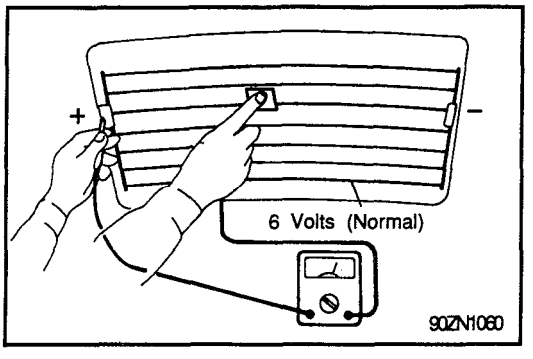


REAR HEATED (DEFOGGER) GLASS PRINTED HEATER LINK CHECK

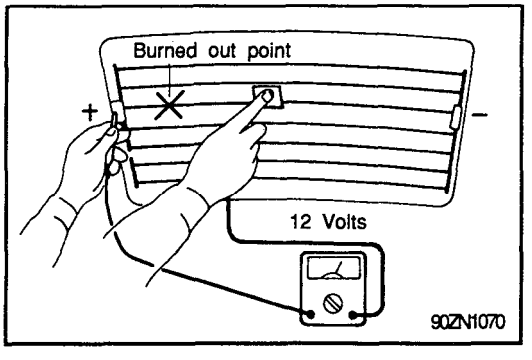
NOTE :
Wrap tin foil around the end of the voltmeter test lead to prevent damaging the heater line. Apply finger pressure on the tin foil, moving the tin foil along the grid line to check for open circuits.



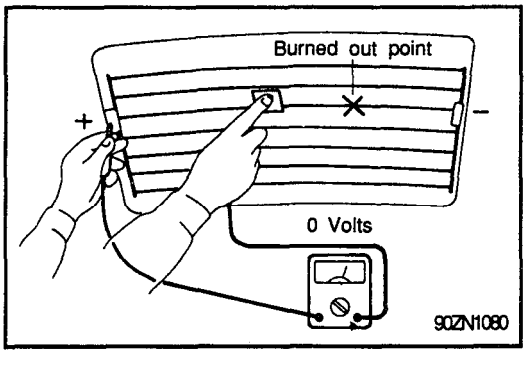
1. Turn on the defogger switch and use a voltmeter to measure the voltage of each heater line at the glass center point. If a voltage of approximately 6V is indicated by the voltmeter, the heater line of the rear window is considered satisfactory.



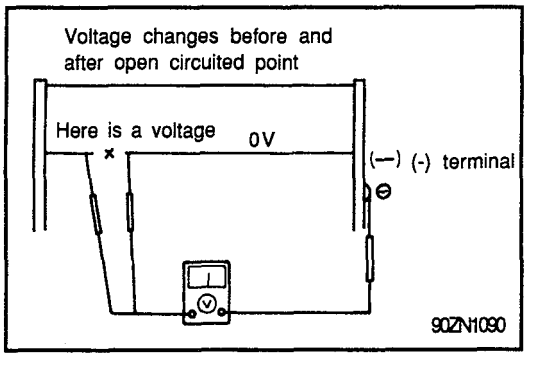
2. If a heater line is burned out between the center point and (+) terminal, voltmeter will indicate 12 volts.



3. If a heater line is burned out between the center point and (-) terminal, the voltmeter will indicate 0 volt.

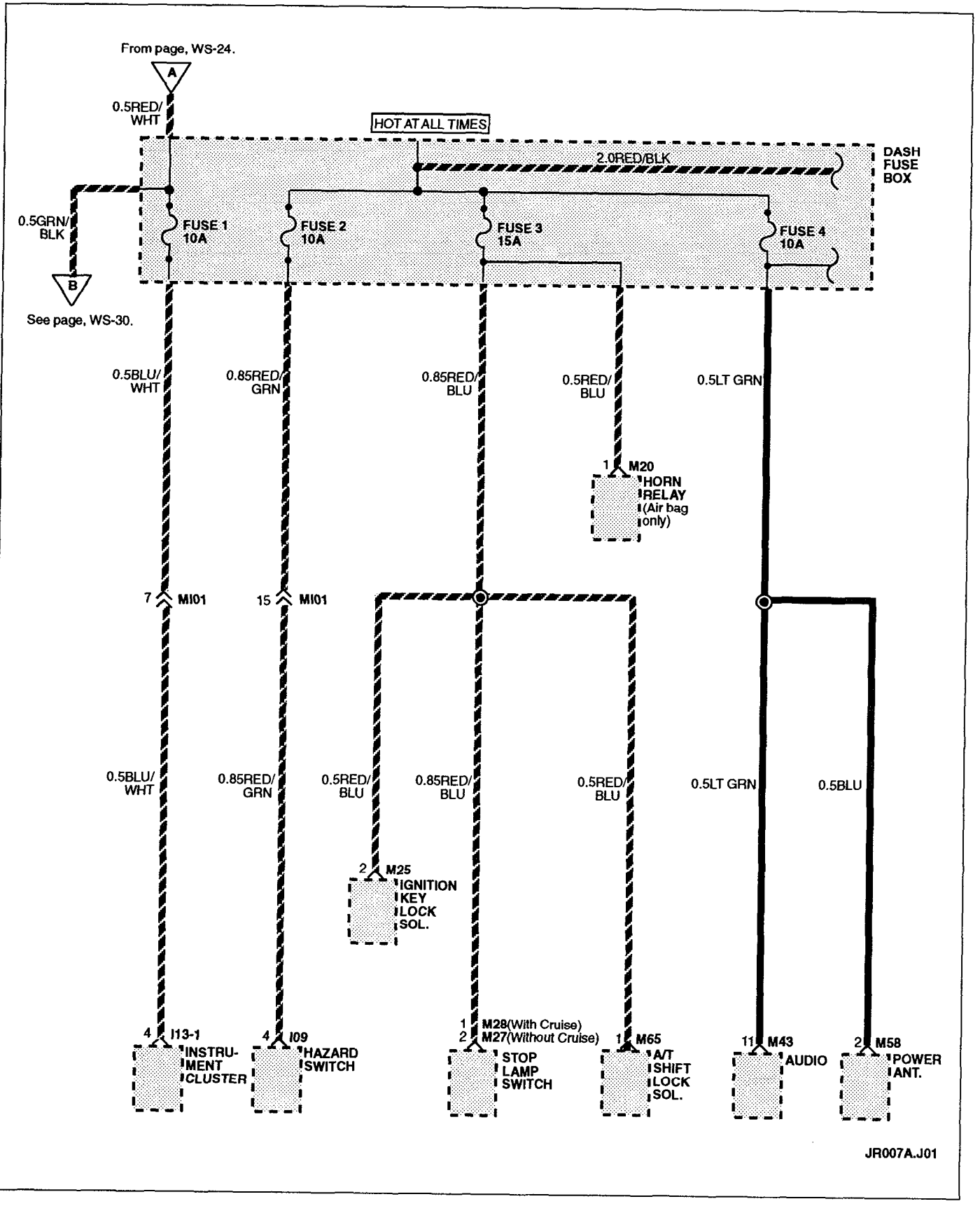


4. To check for open circuits, slowly move the test lead in the direction that the open circuit seems to exist. Try to find a point where a voltage is generated or changes to 0V. The point where the voltage has changed is the open-circuited point.



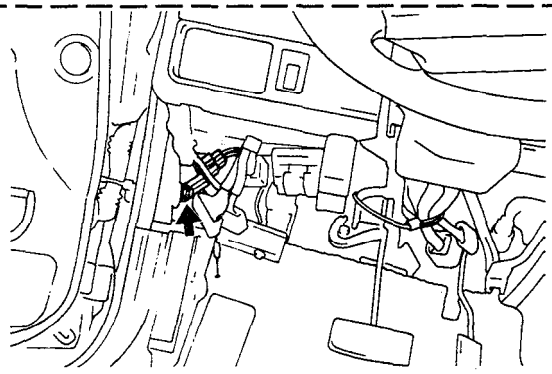
DASH FUSE BOX DETAILS

SCHEMATIC DIAGRAM (1)

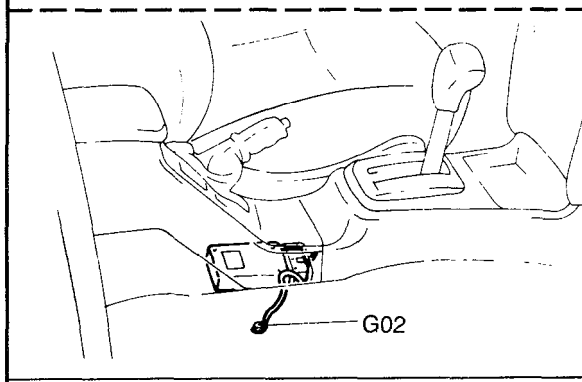


COMPONENTS (G01 ~ G08)

G01



G02



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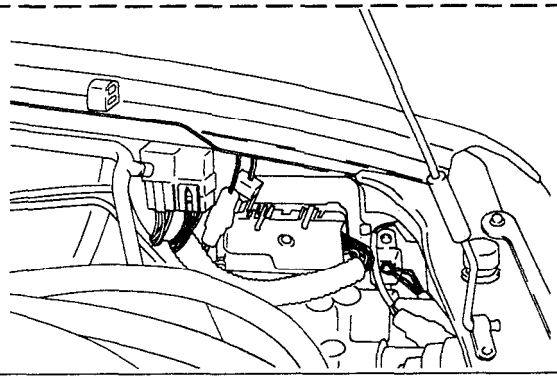

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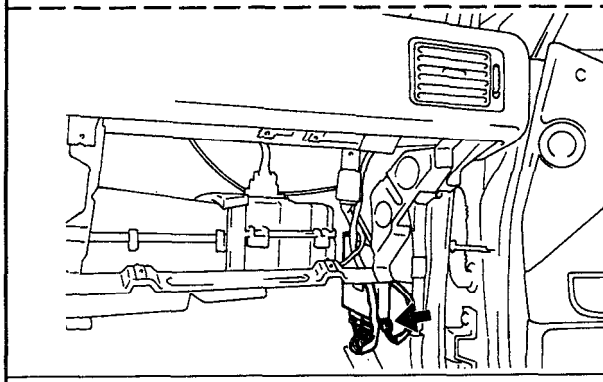
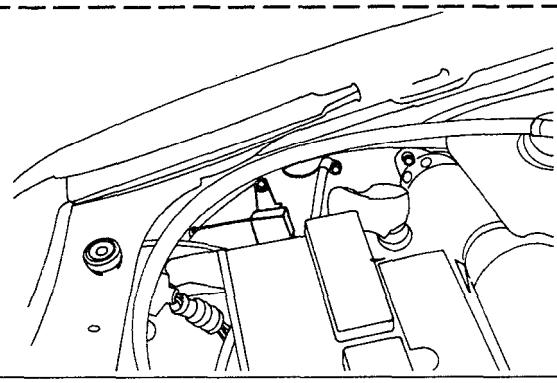
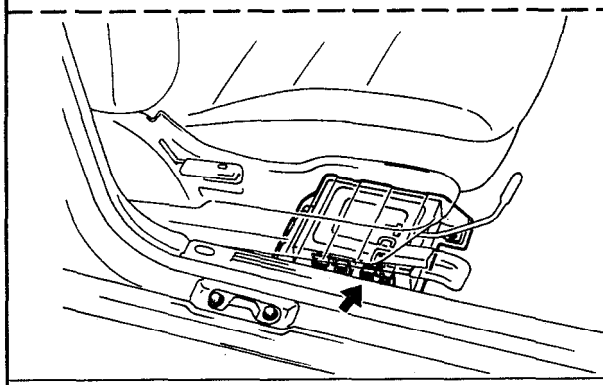


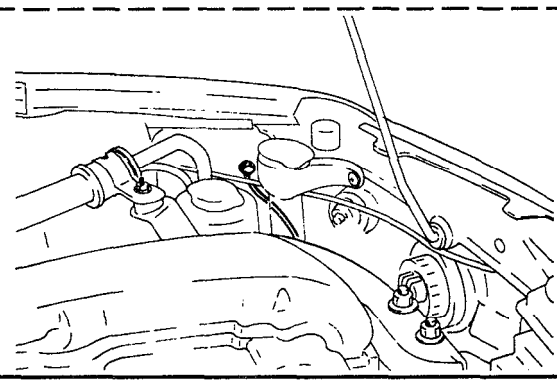
G05



G06



G07



G08