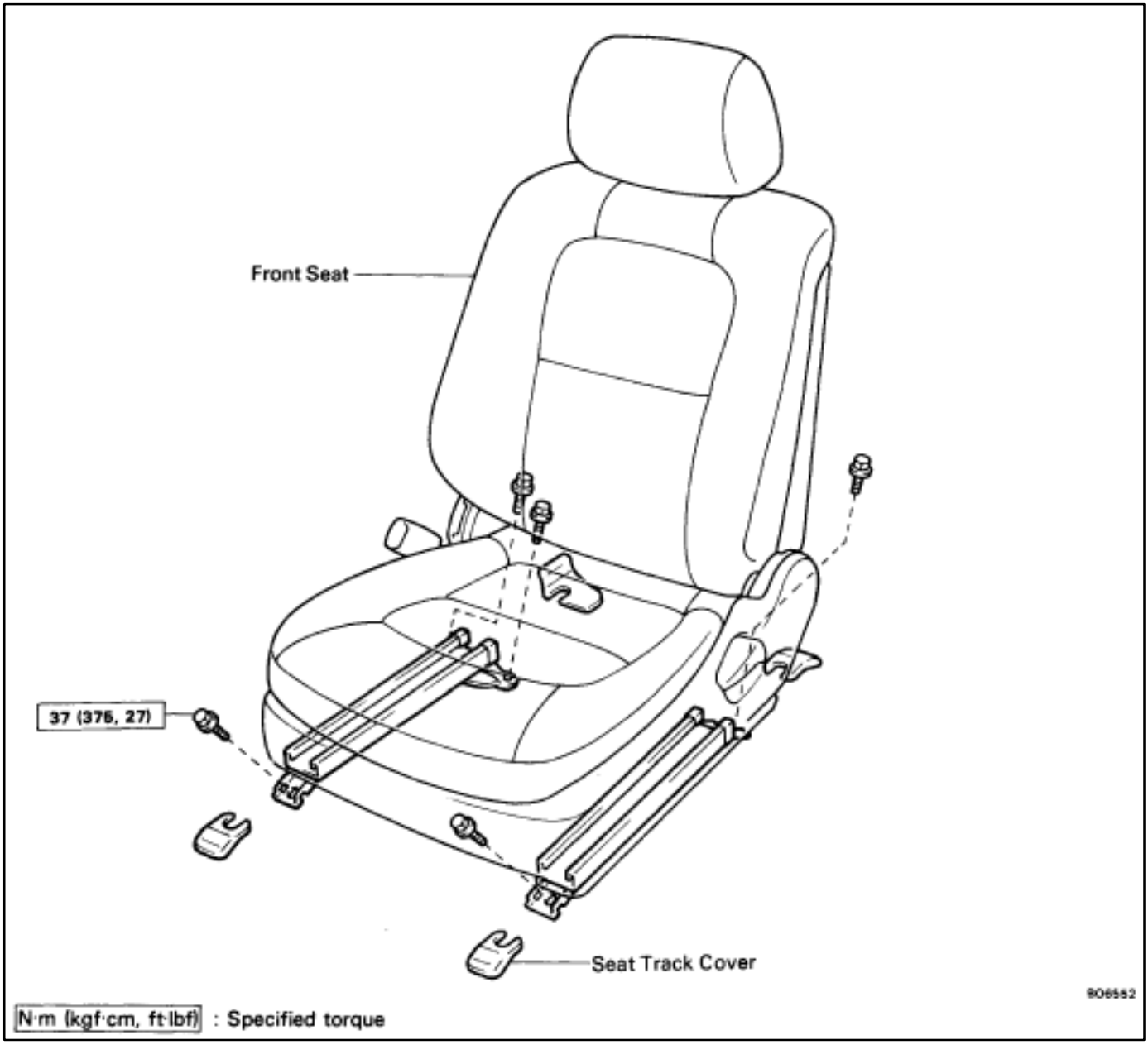
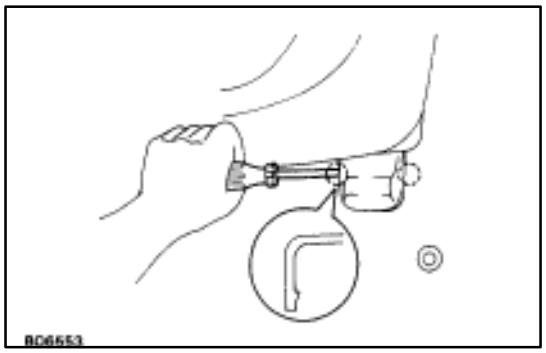
SEAT
Front Seat
REMOVAL OF FRONT SEAT



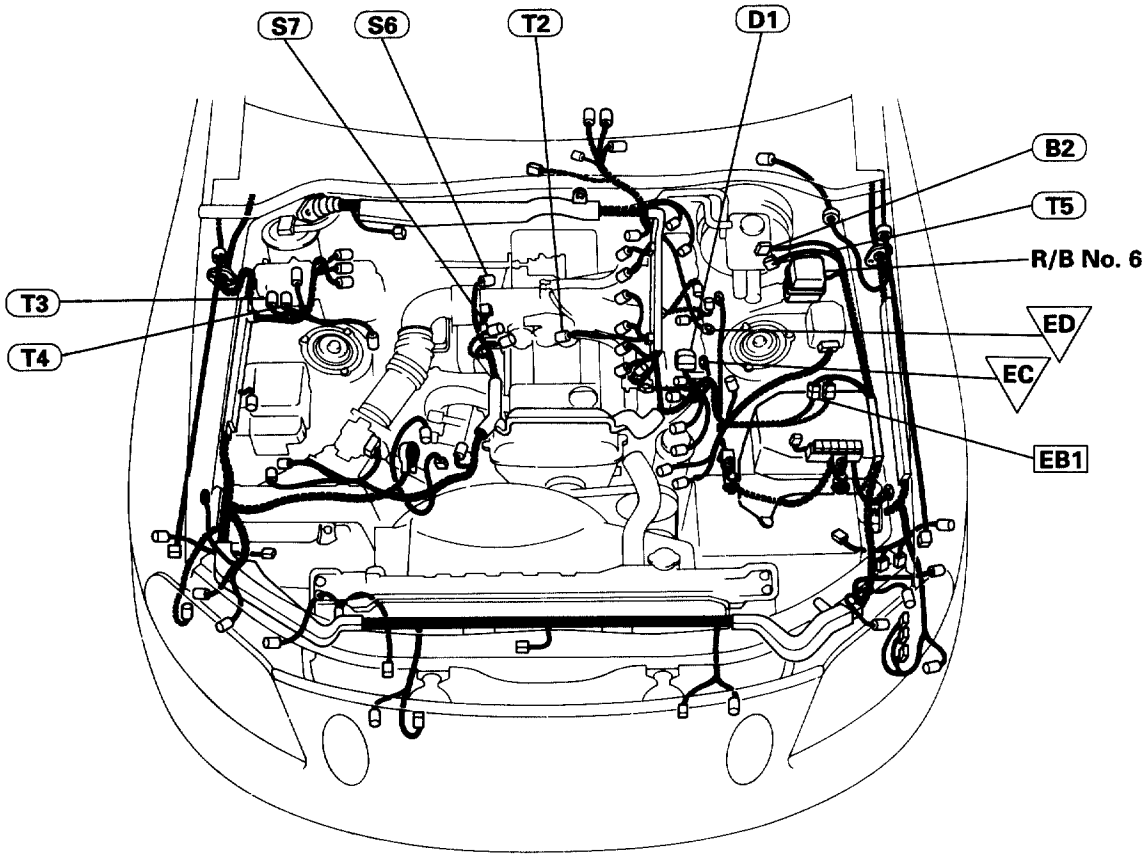


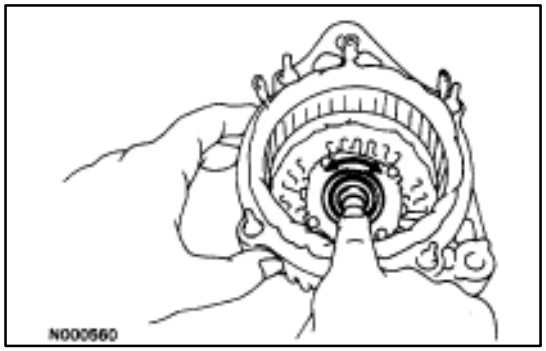
1. **REMOVE HEADREST**
   While pushing the lock button, pull up the headrest to remove it.
2. **REMOVE SEAT TRACK COVERS**
   Using a screwdriver, pry out three covers.
   HINT: Tape the screwdriver tip before use.
3. **REMOVE SEAT TRACK COVER (Rear inner side)**
   (a) Lift up the rear part of the cover.
   (b) Pull the cover straight back–wards.

LOCATION OF CONNECTORS

Location of Connectors in Engine Compartment

SC300:

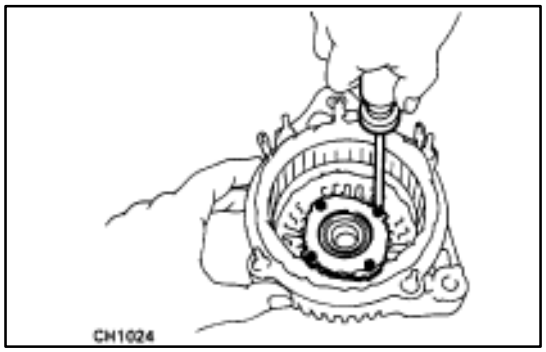




Bearings

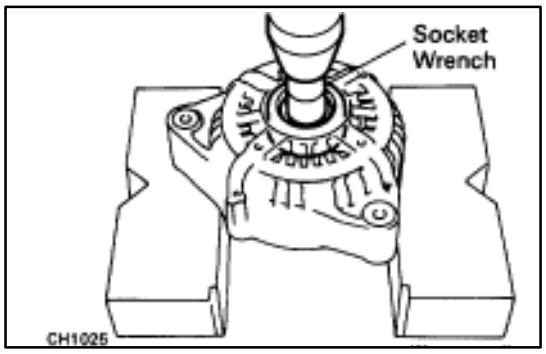
1. INSPECT FRONT BEARING

Check that the bearing is not rough or worn.

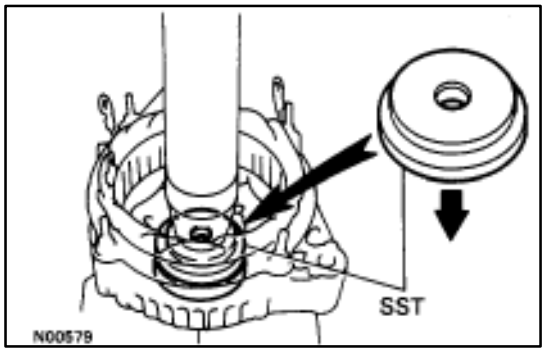


2. IF NECESSARY, REPLACE FRONT BEARING

(a) Remove the four screws, bearing retainer and bearing.

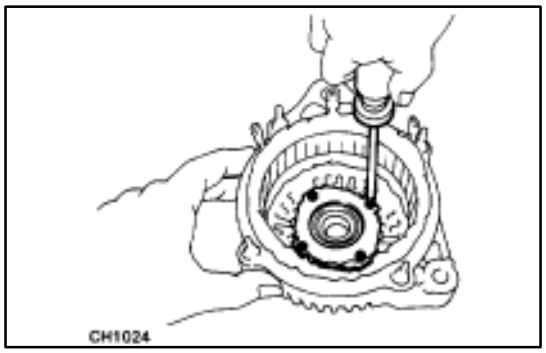


(b) Using a socket wrench and press, press out the bearing.



(c) Using SST and a press, press in a new bearing.

SST 09608–20012 (09608–00030)



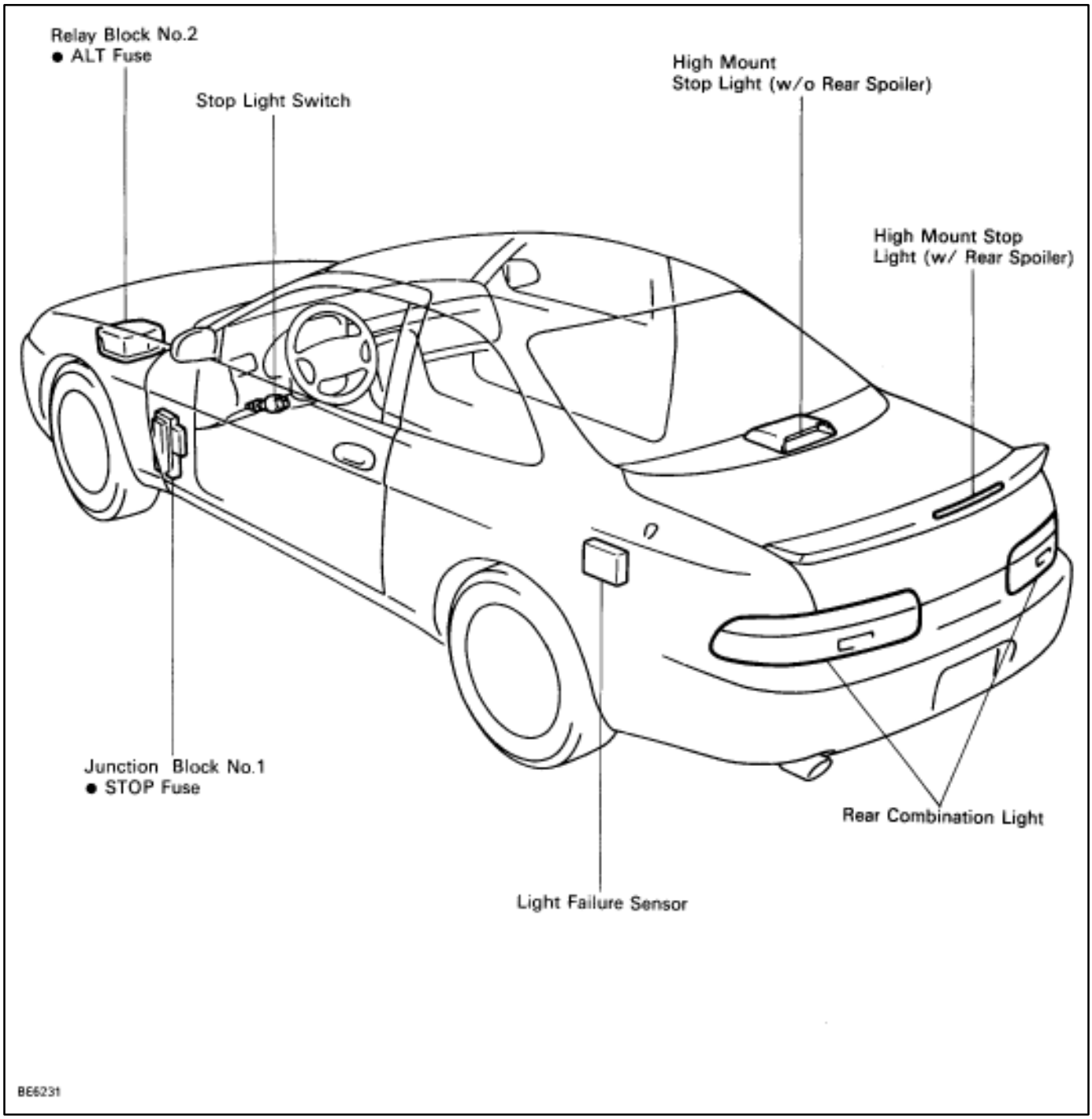
(d) Install the bearing retainer with the four screws.

(STOP LIGHT SYSTEM)
DESCRIPTION – Stoplight System

The component parts of this system and their function are as shown in the following table.

Parts Name	Function
Stop Light Switch	Creates a closed circuit for current from the STOP fuse when the brake pedal is depressed, thus turning on the stop lights.
Light Failure Sensor	This sensor senses when a bulb in rear combination light is burnt out and lights up a warning light.

PARTS LOCATION – Stoplight System

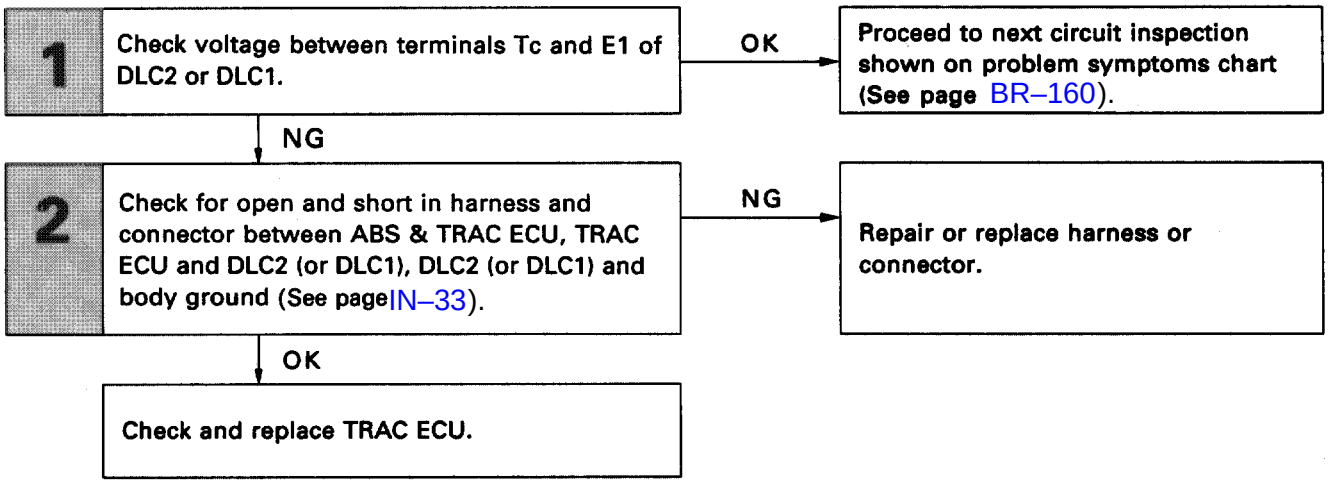


Tc Terminal Circuit

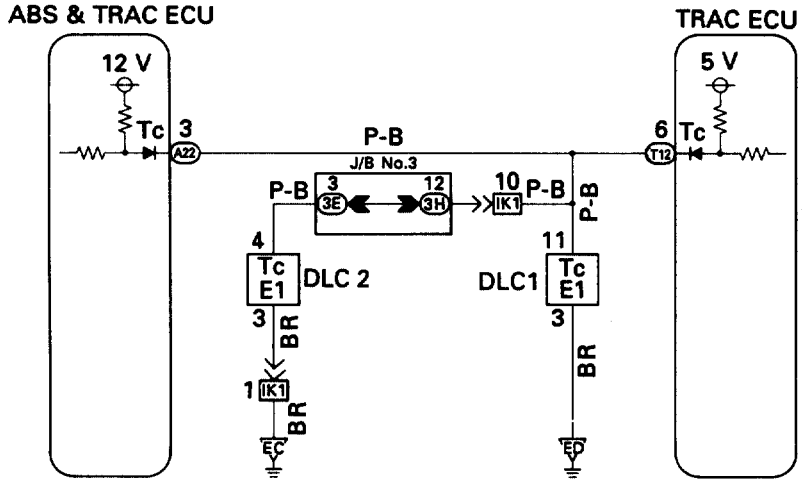
CIRCUIT DESCRIPTION

By connecting between terminals Tc and E1 of DLC1 or DLC2, the ECU displays the diagnostic trouble code by blinking the TRAC indicator light.

DIAGNOSTIC CHART



WIRING DIAGRAM



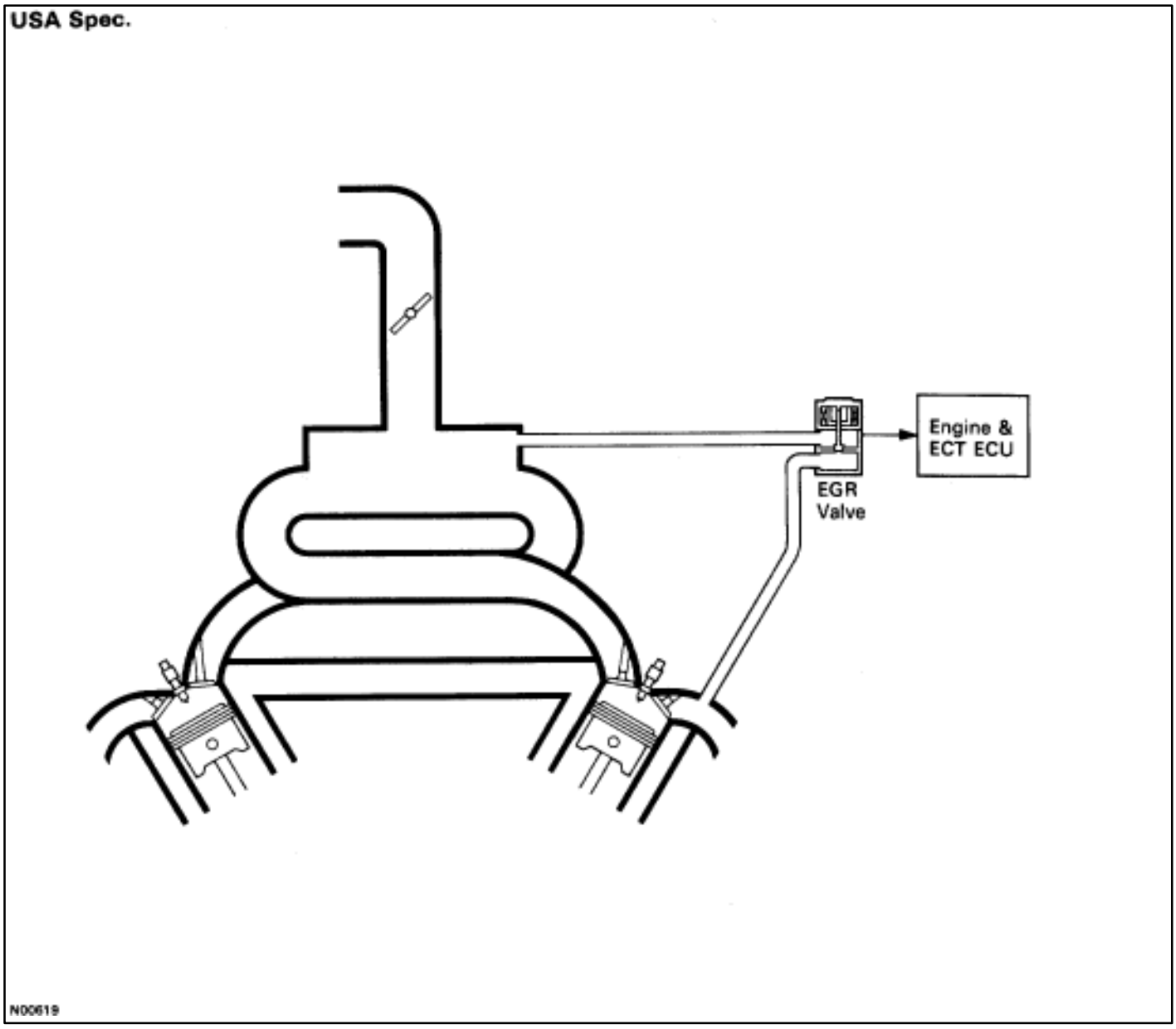
R01418

EXHAUST GAS RECIRCULATION (EGR) SYSTEM

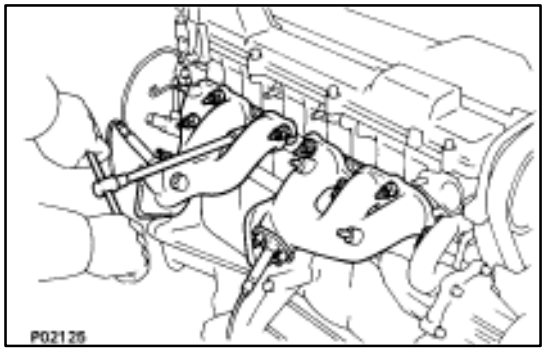
DESCRIPTION

To reduce NOx emission, part of the exhaust gases are recirculated through the EGR valve to the intake manifold to lower the maximum combustion temperature.

OPERATION



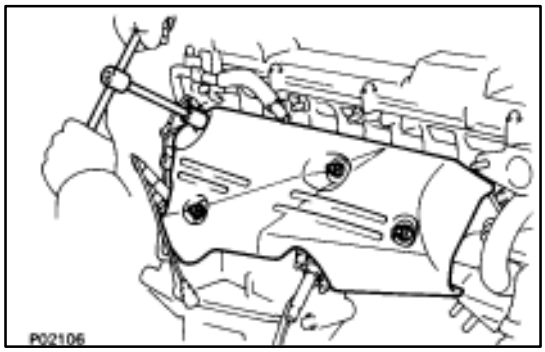
Coolant Temp.	Condition	EGR Valve	Exhaust Gas
Below 53°C (127°F)	–	CLOSED	Not recirculated
Above 55°C (131°F)	**(a)** Idling, Deceleration, Neutral, Low air volume, High Engine speed	CLOSED	Not recirculated
	Except (a)	OPEN	*Recirculated
* The ECU calculates the appropriate number of steps according to the intake air volume and the engine speed, then drives the stepping motor to maintain the EGR volume at a level appropriate to the driving conditions.			



16. INSTALL EXHAUST MANIFOLD

(a) Install a new gasket and the exhaust manifold with the four nuts. Install the No. 1 and No. 2 exhaust manifolds.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)



(b) Install the manifold heat insulator with the four nuts.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

(c) Connect the two oxygen sensor connectors.

17. INSTALL NO. 2 FRONT EXHAUST PIPE
(See step 5 on page EM–105)

18. INSTALL TIMING BELT
(See steps 8 to 14 on pages EM–30 to 33)

19. INSTALL RADIATOR AND WATER PUMP PULLEY
(See steps 15, 16, 19 and 24 on pages EM–110 to 112)

20. INSTALL SPARK PLUGS (See step 6 on page IG–9)
Torque: 18 N·m (180 kgf·cm, 13 ft·lbf)

21. CONNECT HIGH–TENSION CORDS TO SPARK PLUGS
(See steps 14 to 21 on pages EM–17 to 21)

22. FILL ENGINE WITH COOLANT (See page CO–5)
Capacity (w/ Heater):

M/T	**8.5 liters (9.0 US qts, 7.5 lmp. qts)**
A/T	**8.4 liters (8.9 US pts, 7.4 lmp. qts)**

23. START ENGINE AND CHECK FOR LEAKS

24. (A/T)
CHECK AUTOMATIC TRANSMISSION FLUID LEVEL
(See page MA–11)
NOTICE: Do not overfill.

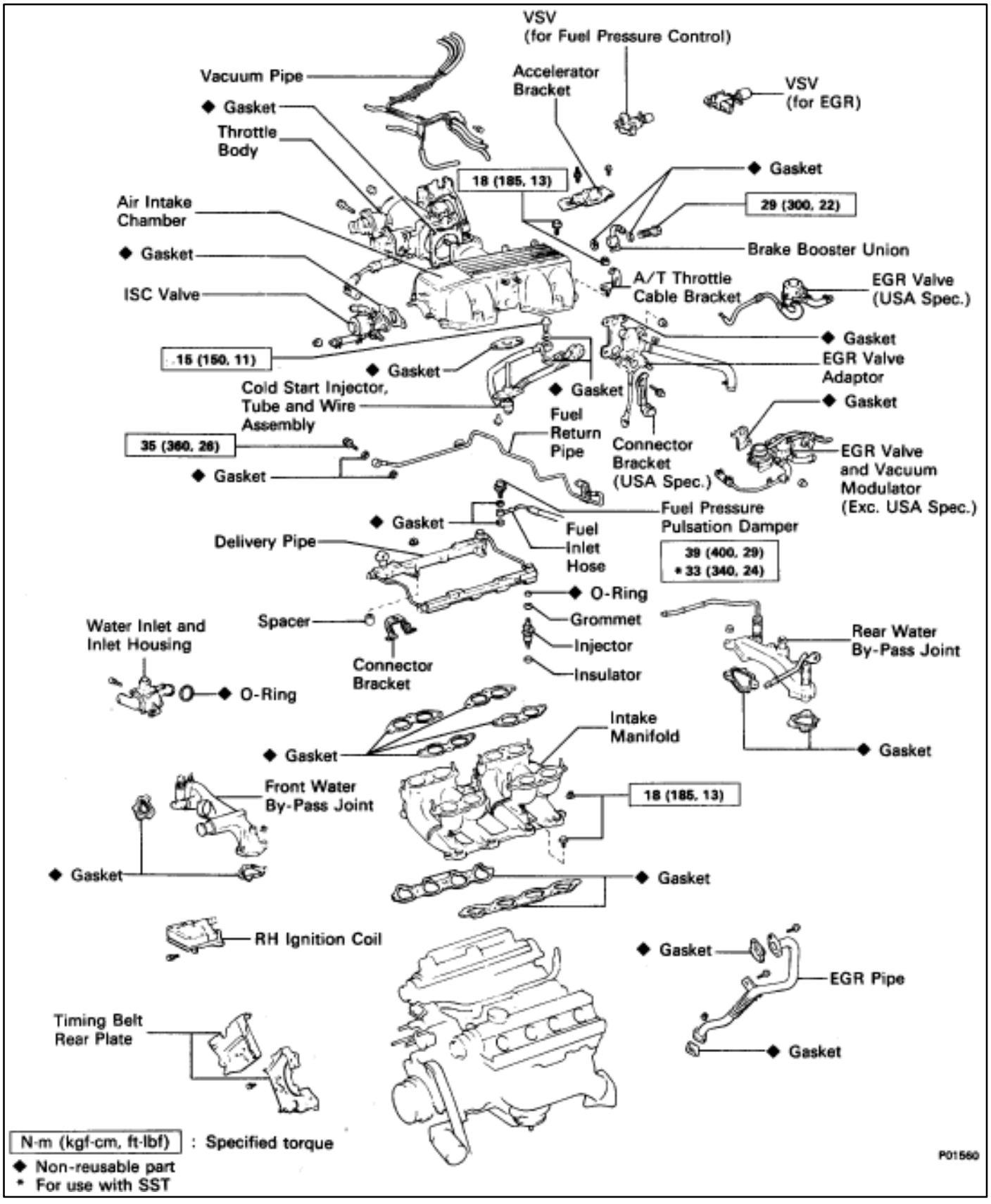
25. CHECK IGNITION TIMING (See page IG–14)
Ignition timing:
10° BTDC @ idle
(w/ Terminals TE1 and E1 connected)

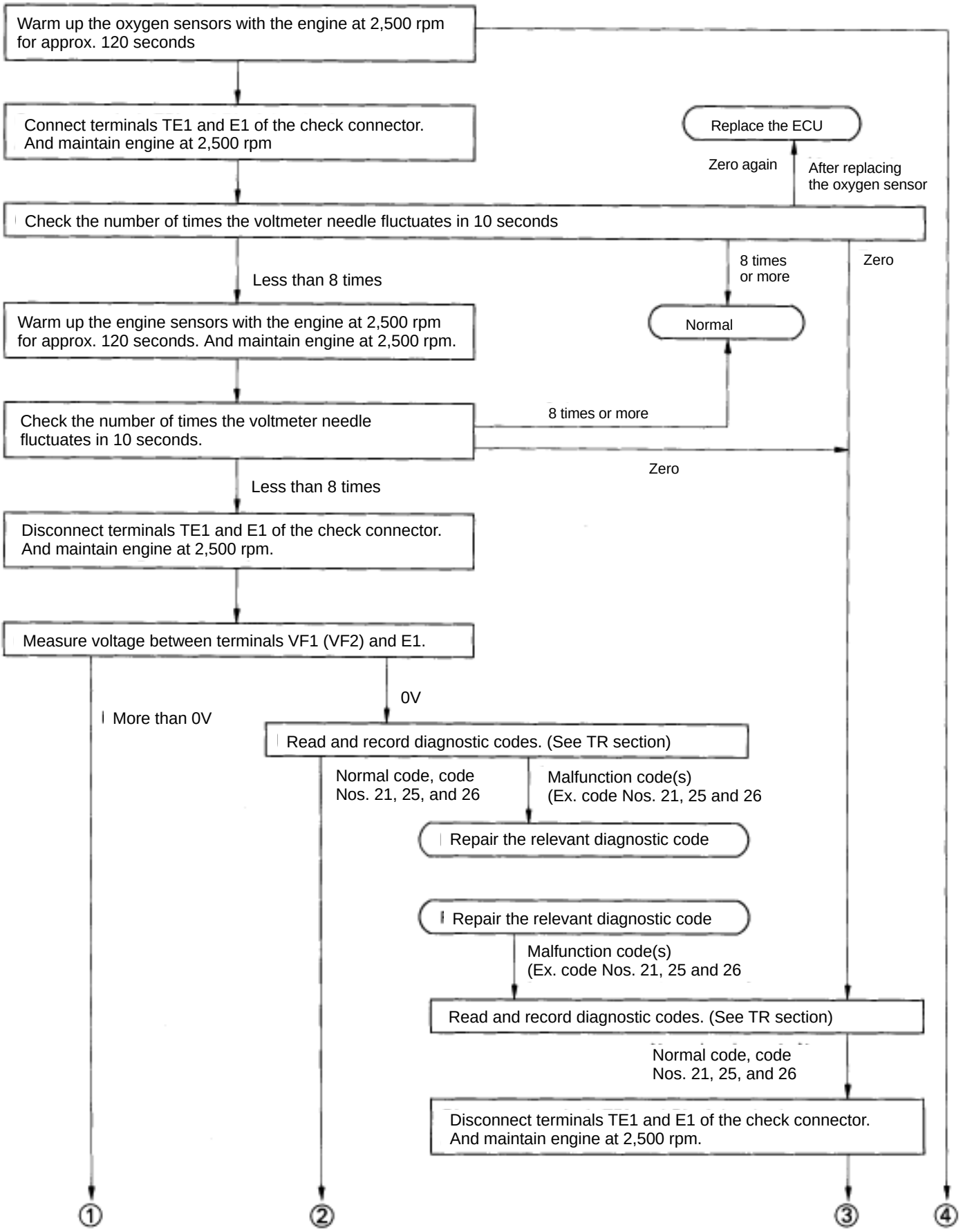
26. PERFORM ROAD TEST
Check for abnormal noise, shock, slippage, correct shift points and smooth operation.

27. RECHECK ENGINE COOLANT LEVEL

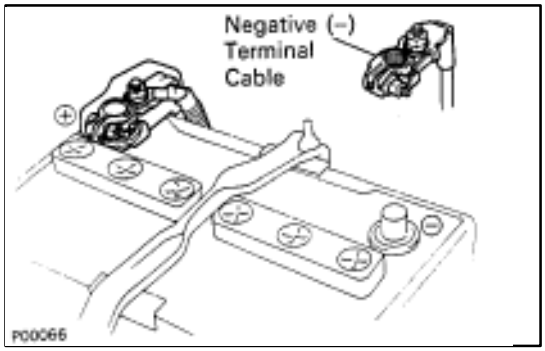
CYLINDER HEADS

COMPONENTS FOR REMOVAL AND INSTALLATION





CONTINUED ON PAGE FI-75



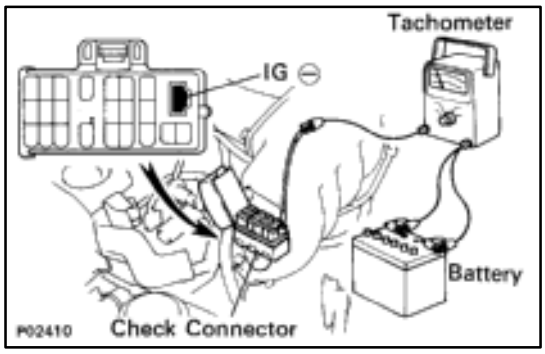
PRECAUTIONS

1. **Before working on the fuel system, disconnect the cable from negative (–) terminal of the battery.**
   HINT: Any diagnostic code retained by the computer will be erased when the battery terminal is removed. Therefore, if necessary, read the diagnosis before removing the battery terminal.
   CAUTION: Turn the ignition switch to "LOCK". Disconnect the cable from the negative (–) terminal of the battery. Wait at least 20 seconds before proceeding with work.
2. **Do not smoke or work on open flame when working on the fuel system.**
3. **Keep gasoline away from rubber or leather parts.**

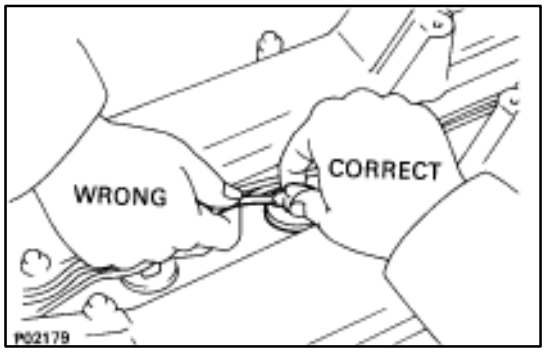
INSPECTION PRECAUTIONS

MAINTENANCE PRECAUTIONS

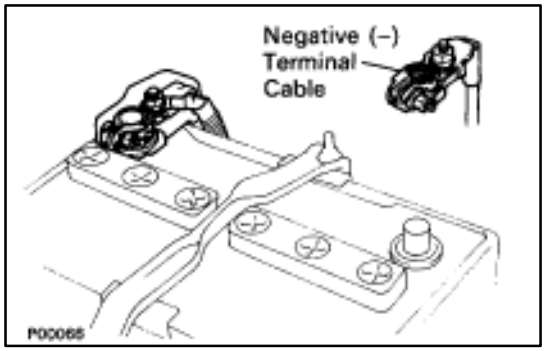
1. **CHECK CORRECT ENGINE TUNE–UP**
   (See page EM–8)



2. **PRECAUTIONS WHEN CONNECTING GAUGE**
   (a) Use the battery as the power source for the timing light, tachometer, etc.
   (b) Connect the test probe of a tachometer to the terminal IG ≦ of the check connector.



3. **IN EVENT OF ENGINE MISFIRE, FOLLOWING PRECAUTIONS SHOULD BE TAKEN**
   (a) Check proper connection of battery terminals, etc.
   (b) Handle high–tension cords carefully.
   (c) After repair work, check that the ignition coil terminals and all other ignition system lines are reconnected securely.
   (d) When cleaning the engine compartment, be especially careful to protect the electrical system from water.
4. **PRECAUTIONS WHEN HANDLING OXYGEN SENSOR**
   (a) Do not allow oxygen sensor to drop or hit against an object.
   (b) Do not allow the sensor to come into contact with water.

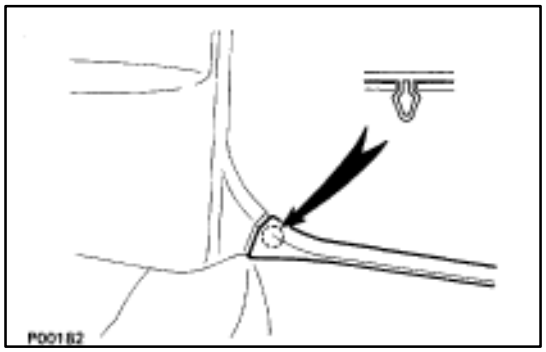


INSPECTION OF FUEL PUMP ECU

1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

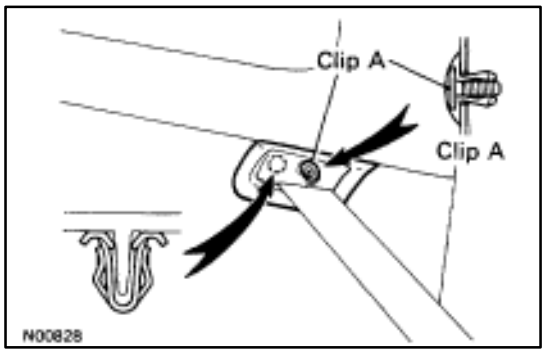
CAUTION: Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.

2. REMOVE SEAT CUSHION AND BACK



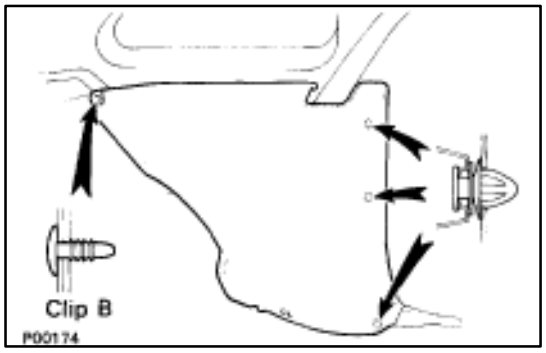
3. REMOVE QUARTER TRIM

(a) Disconnect the rear side of the scuff plate by pulling it.



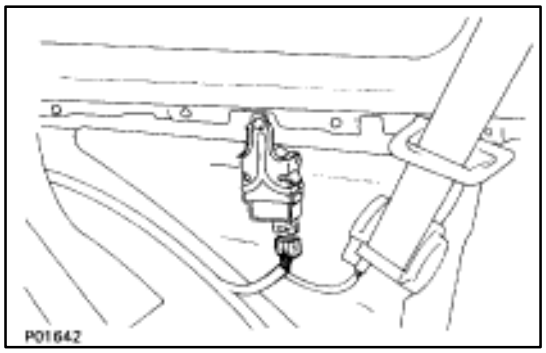
(b) Remove clip A.

(c) Remove the belt hole cover by pulling it.

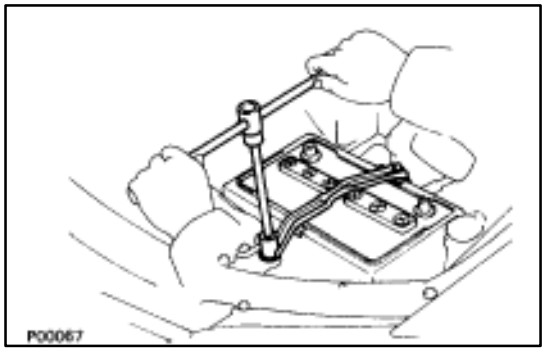


(d) Remove clip B.

(e) Remove the quarter trim by pulling it.



4. DISCONNECT FUEL PUMP ECU CONNECTOR



REMOVAL OF HYDRAULIC PUMP

(See Components on page CO–26)

1. REMOVE BATTERY

CAUTION: Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.

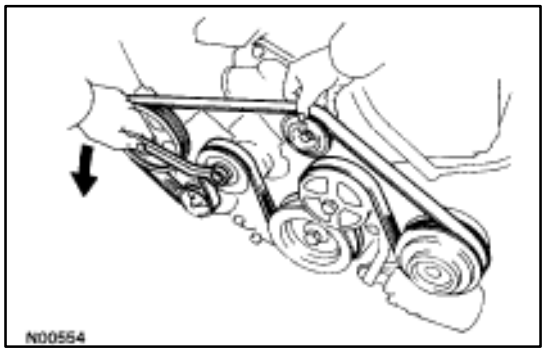
2. REMOVE ENGINE UNDER COVER

3. DRAIN ENGINE COOLANT (See page CO–6)

4. REMOVE DRIVE BELT

Loosen the drive belt tension by turning the drive belt tensioner counterclockwise, and remove the drive belt.

HINT: The pulley bolt for the belt tensioner has a left–hand thread.

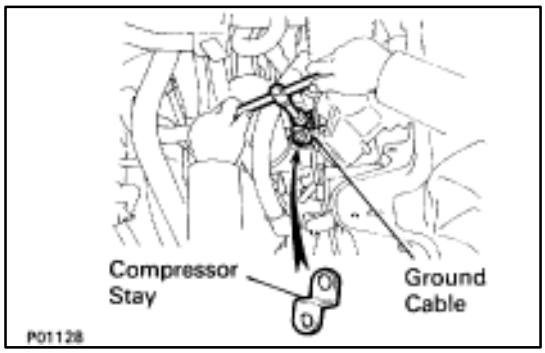


5. DISCONNECT A/C COMPRESSOR

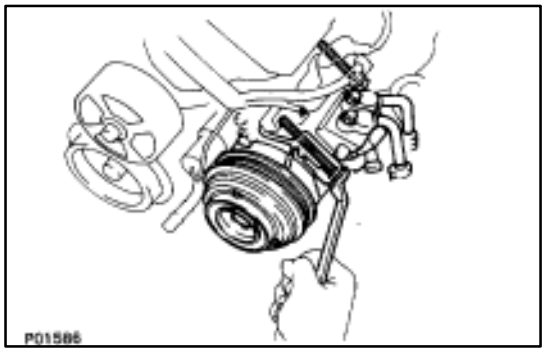
(a) Disconnect the A/C compressor connector.

(b) Remove the nut, and disconnect the ground cable.

(c) Remove the bolt and A/C compressor stay.



(d) Remove the two bolts, and disconnect the A/C compressor from the engine.



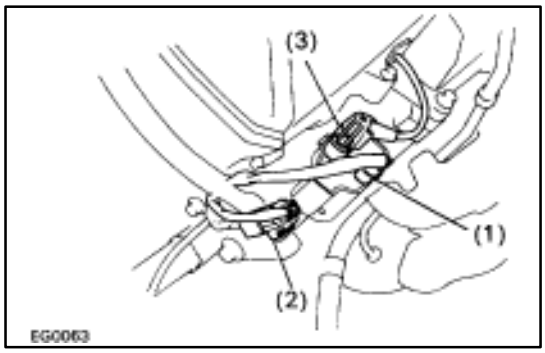
6. REMOVE LH IGNITION COIL

(a) Disconnect the following connectors and cord:

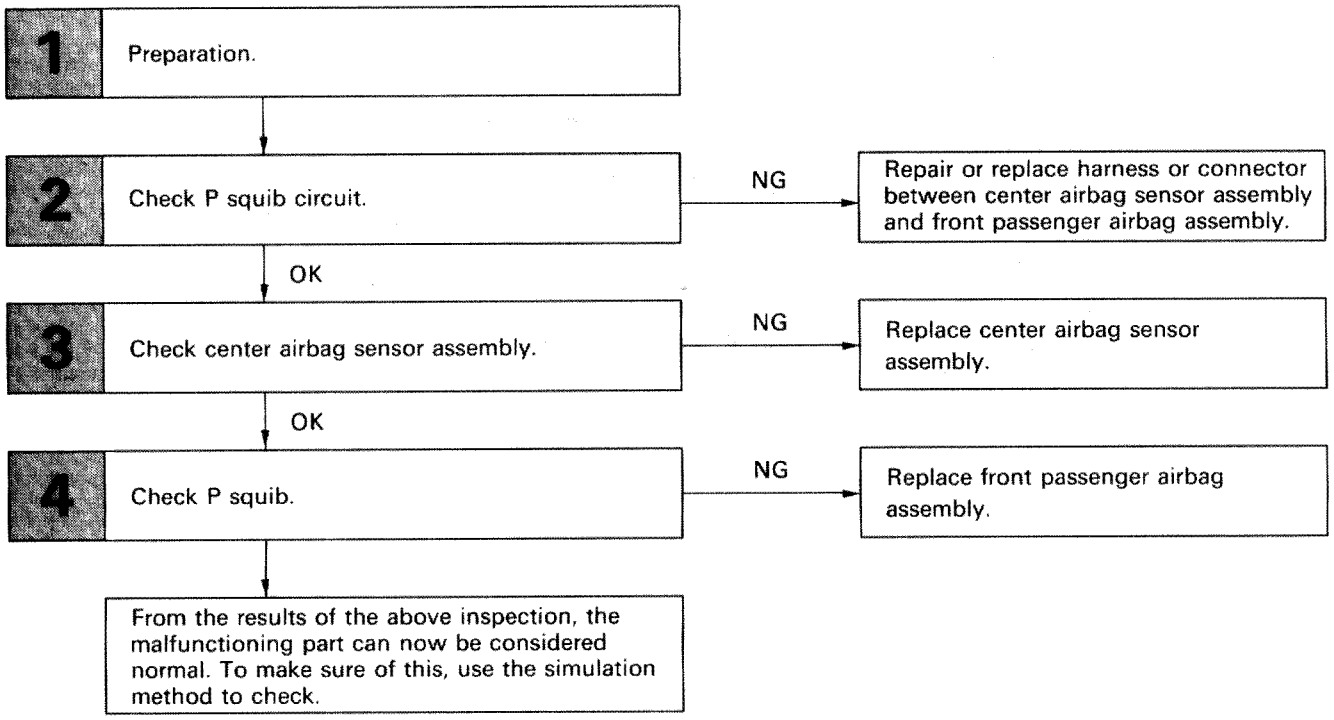
(1) Ignition coil connector

(2) Noise filter connector

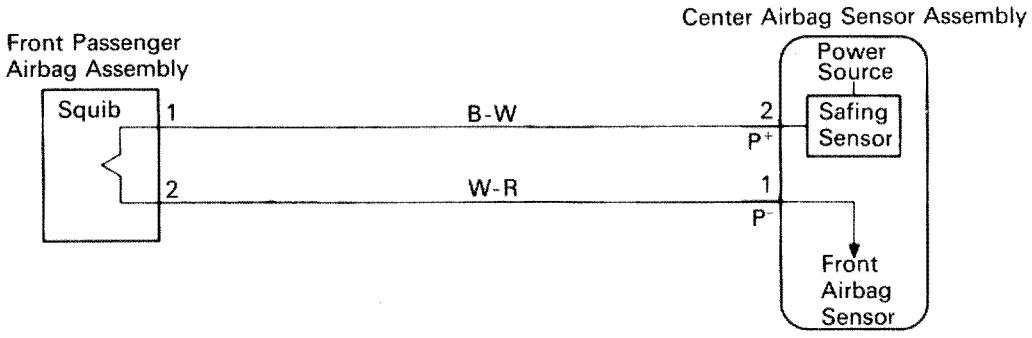
(3) High–tension cord



DIAGNOSTIC CHART

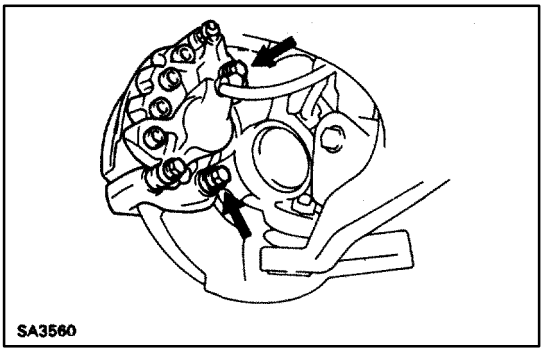


WIRING DIAGRAM



UPPER SUSPENSION ARM REMOVAL

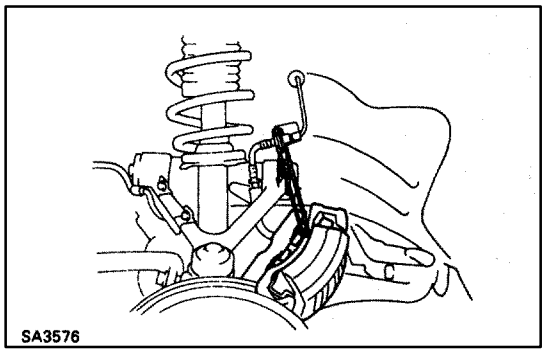
SA1A2–01



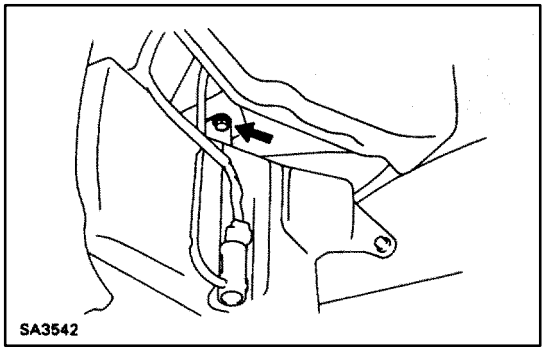
1. JACK UP VEHICLE AND REMOVE FRONT WHEEL

2. REMOVE FRONT BRAKE CALIPER AND DISC

(a) Remove the 2 bolts and brake caliper from the steering knuckle.



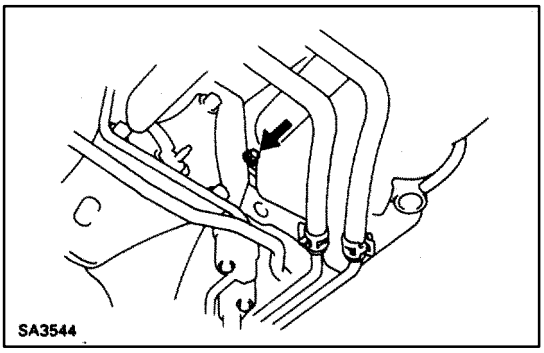
(b) Hang up the caliper using wire, etc.



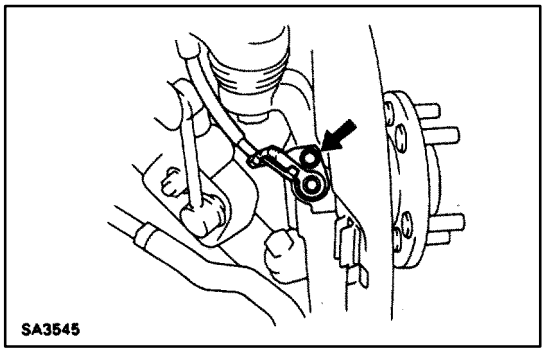
3. REMOVE FRONT FENDER SPLASH SHIELD

4. LH side only:
MOVE WASHER TANK

(a) Loosen the bolt.



(b) Remove the bolt and move the washer tank away from the body.



5. REMOVE ABS SPEED SENSOR AND WIRE HARNESS CLAMP

(a) Remove the bolt and disconnect the speed sensor from the steering knuckle.

REMOTE CONTROL MIRROR (w/ DRIVING POSITION MEMORY)