

29. Remove the front drive shaft.  
SST: 09648-87201-000

**NOTE:**

① On Type CB-23 and CB-61 engines, no stopper is provided at the inside of the inboard of the drive shaft. It is, therefore, necessary to support the inboard joint section by hands during the removal.

② On Type CB-80 engine, remove the front drive shaft by inserting a crowbar into between the projected section of the drive bearing shaft and the drive shaft. Care must be exercised not to deform the dust cover of the drive shaft during the removal.

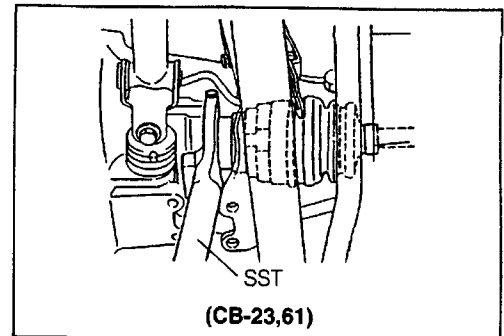


Fig. 5-21

WM-05025

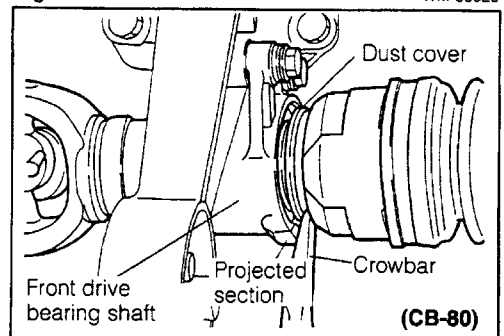


Fig. 5-22

WM-05026

30. Disconnection of engine mounting lower left bracket  
Remove the bolts at the transmission side only.

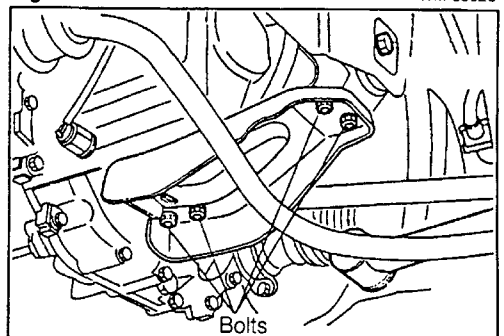


Fig. 5-23

WM-05027

31. Disconnection of engine mounting rear No.1 bracket

Remove the bolt attaching the engine lower mounting member subassembly to the engine mounting rear No.1 bracket.

32. Sling the engine, using the following SST.  
SST: 09090-04810-000 (Engine sling device)

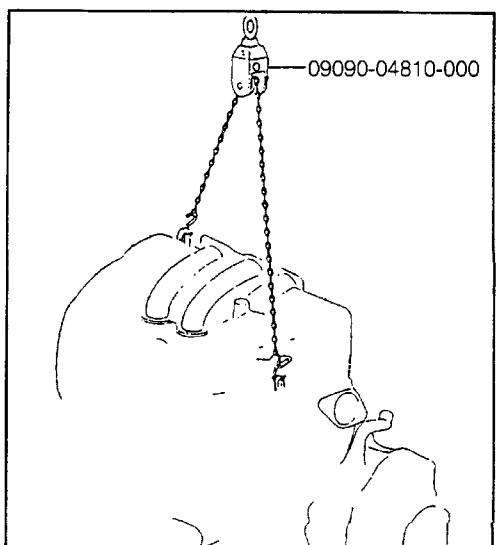


Fig. 5-24

WM-05029

## ENGINE MECHANICALS

### 33. Removal of engine assembly

- ① Remove the engine mounting front stopper.
- ② Remove the engine mounting front insulator.
- ③ Remove the engine by lifting it, using the following SST.

SST: 09090-04810-000 (Engine sling device)

#### NOTE:

When removing the engine, perform final check to ensure that all removal parts have been removed.

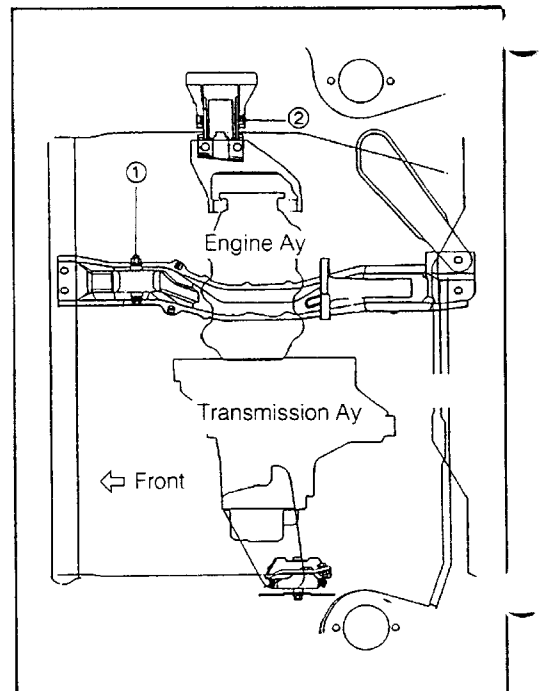


Fig. 5-25

WM-05030

34. Remove the starter assembly from the transmission.
35. Remove the transmission assembly from the engine assembly.

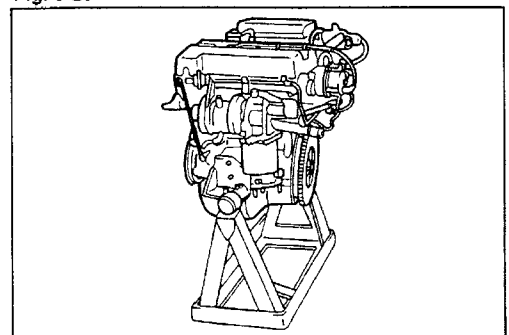


Fig. 5-26

WM-05031

### 36. Install the engine assembly to the following SSTs.

SSTs: 09219-87701-000  
09219-87202-000

WM-05032

### INSTALLATION

1. Remove the engine assembly from the SSTs.
2. Install the transmission assembly to the engine assembly.  
Tightening Torque: 5.0 - 7.0 kg-m (36 - 51 ft-lb)
3. Install the starter assembly to the transmission.

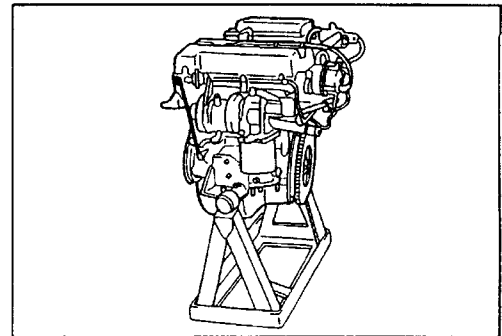


Fig. 5-27

WM-05033

4. Installation of engine assembly
  - ① Sling the engine, using the following SST.  
SST: 09090-04810-000 (Engine sling device)
  - ② Install the engine mounting front insulator.  
Tightening Torque: 7.5 - 10.5 kg-m (54 - 76 ft-lb)
  - ③ Install the engine mounting front stopper.  
Tightening Torque: 7.5 - 10.5 kg-m (54 - 76 ft-lb)

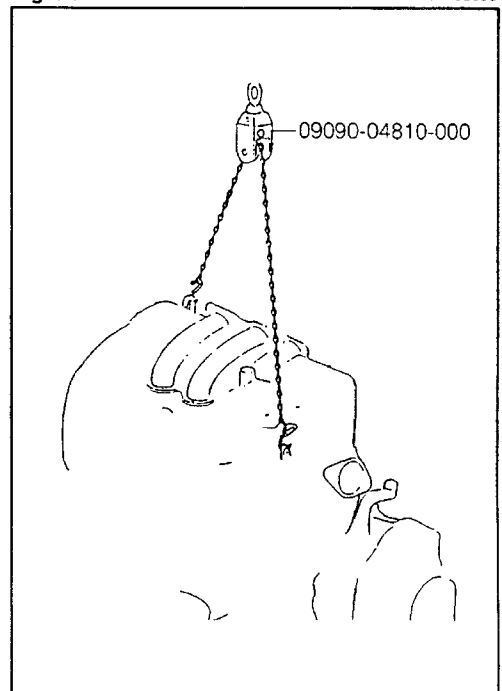


Fig. 5-28

WM-05034

5. Install the engine mounting rear No.1 bracket.  
Tightening Torque: 7.5 - 10.5 kg-m (54 - 76 ft-lb)

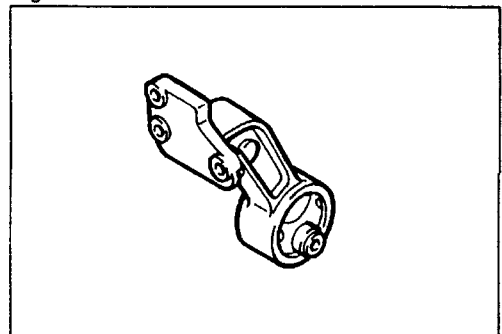


Fig. 5-29

WM-05035

6. Install the engine mounting lower left bracket.  
Tightening Torque: 3.0 - 4.5 kg-m (22 - 33 ft-lb)
7. Remove the SST (engine sling device) from the engine assembly.

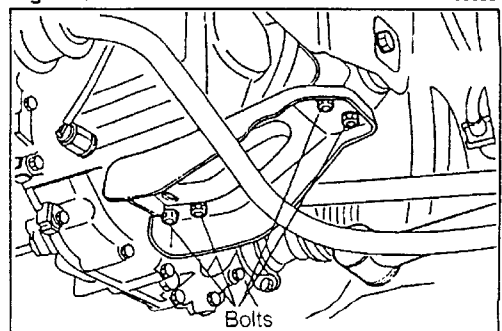


Fig. 5-30

WM-05036

## ENGINE MECHANICALS

8. Install the front drive shaft.

**NOTE:**

Install the front drive shaft to the differential case slowly, being very careful not to damage the lip section of the oil seal.

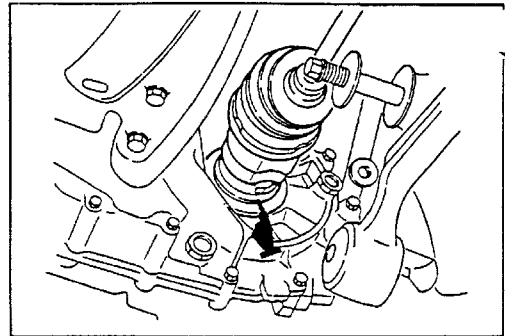


Fig. 5-31

WM-05037

9. Install the suspension lower arm subassembly.

**Tightening Torque:** 7.5 - 10.5 kg-m (54 - 76 ft-lb)

10. Install the lower suspension brace. (CB-61 and CB-80 engines only)

**Tightening Torque:** 4.0 - 5.5 kg-m (29 - 40 ft-lb)

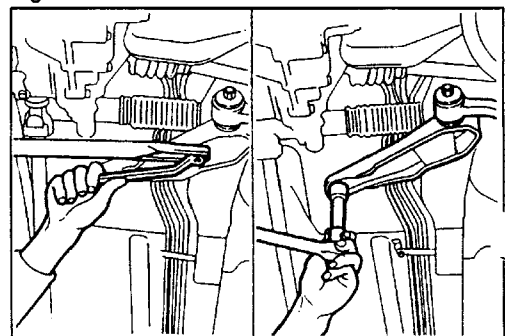


Fig. 5-32

WM-05038

11. Installation of stabilizer bar

- ① Tightening the suspension lower arm subassembly.

**Tightening Torque:** 7.5 - 11.0 kg-m (54 - 80 ft-lb)

- ② Tightening the stabilizer bracket.

**Tightening Torque:** 4.0 - 6.0 kg-m (29 - 43 ft-lb)

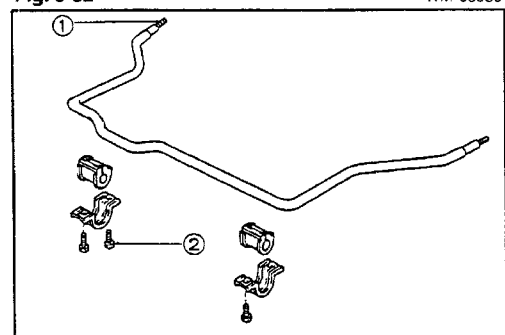


Fig. 5-33

WM-05039

12. Install the exhaust front pipe.

**Tightening Torque:** 3.0 - 5.0 kg-m (22 - 36 ft-lb)

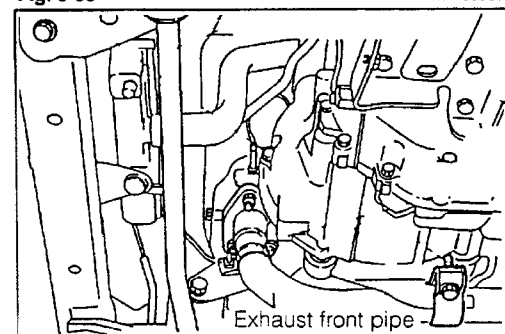


Fig. 5-34

WM-05040

13. Install the shift & selector shaft subassembly.

**Tightening Torque:** 1.0 - 1.6 kg-m (7 - 12 ft-lb)

**NOTE:**

After completion of the installation, make sure that the shift & selector shaft subassembly can be shifted smoothly into each position. Also, be sure that it can be returned smoothly in the selecting direction.

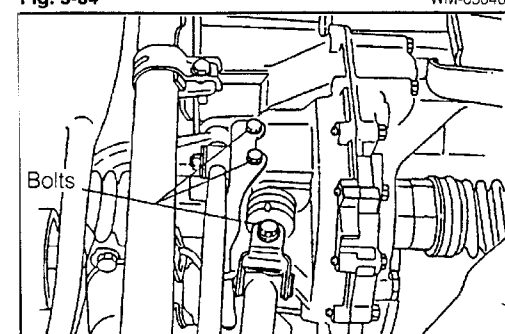


Fig. 5-35

WM-05041

4. Fill the transmission fluid.  
**Lubricant viscosity recommendation:**  
**SAE 80W (oil equivalent to API classification GL-4)**

Transmission	4-speed manual transmission	5-speed manual transmission
Oil level		
Oil level flush with Filler plug	About 2.0 litres	About 2.2 litres
Oil level 5 mm below Filler plug	About 1.9 litres	About 2.1 litres

15. Tighten the wheels temporarily. Remove the safety stands.  
 Tighten the wheels securely.  
**Tightening Torque: 9.0 - 12.0 kg-m (65 - 87 ft-lb)**

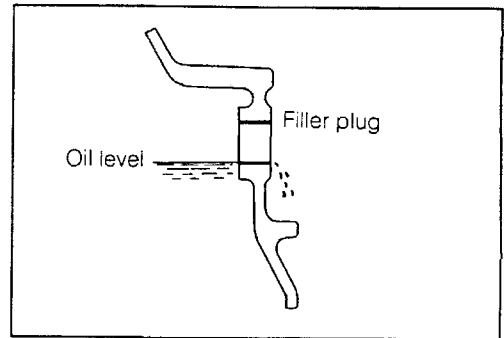


Fig. 5-36

WM-05042

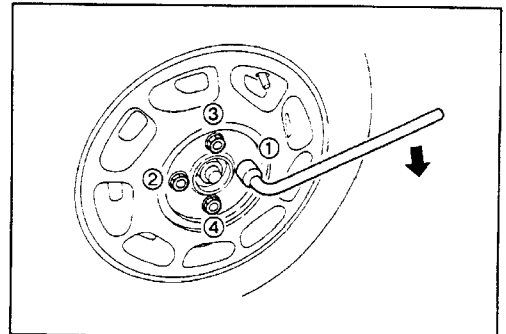


Fig. 5-37

WM-05043

16. Connect the harness connectors for the parts given below.
- 1) Alternator connector
  - 2) Oil pressure switch
  - 3) Earth
  - 4) Intake air temperature sensor
  - 5) Variable resistor
  - 6) Pressure sensor
  - 7) Throttle sensor
  - 8) Backup lamp harness
  - 9) Transmission earth
  - 10) Starter harness
  - 11) Coupler of each injector
  - 12) Cold start injector
  - 13) Ignition coil resistive cord
  - 14) Distributor connector
  - 15) Thermostat sender unit
  - 16) Fan motor switch
  - 17) Water temperature sensor
  - 18) Injector time switch

WM-05044

17. Install the hose of the turbocharger waste gate valve.  
 (CB-80 engine only)
18. Install the fuel pipe.
19. Install the heater hose.
20. Install the brake booster hose.

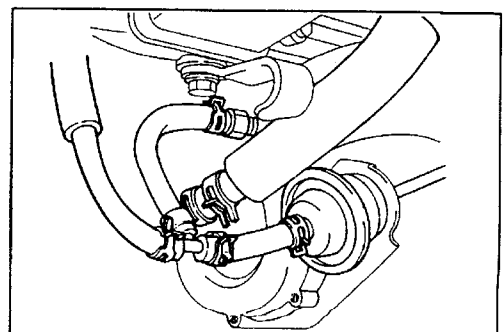


Fig. 5-38

WM-05045

## ENGINE MECHANICALS

21. Connect the accelerator cable.

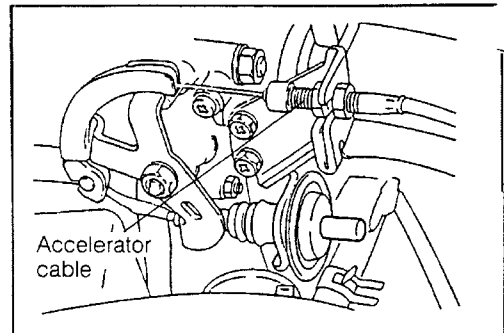


Fig. 5-39

WM-05046

22. Connect the clutch cable.

**NOTE:**

Apply MP grease to the point where the clutch release lever is attached to the clutch cable.

23. Connect the speedometer cable.

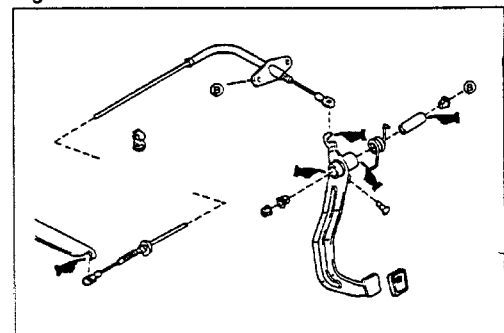


Fig. 5-40

WM-05047

24. Install the air cleaner assembly.

25. Install the blow-by hose. (CB-61 engine only)

26. Install the radiator.

27. Install the intercooler assembly.

28. Install the battery carrier stay.

29. Install the positive  $\oplus$  terminal of the battery.

30. Install the negative  $\ominus$  terminal of the battery.

31. Install the hold-down clamp of the battery.

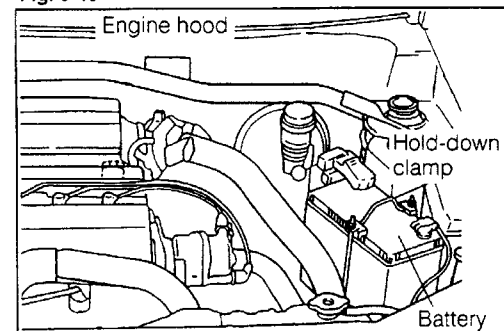


Fig. 5-41

WM-05048

32. Install the engine hood.

**NOTE:**

Apply rust preventive oil to the bolt tightening sections.

(Reference)

Rust Preventive Oil

3M make

Rust Fighter-I (Aerosol Type)

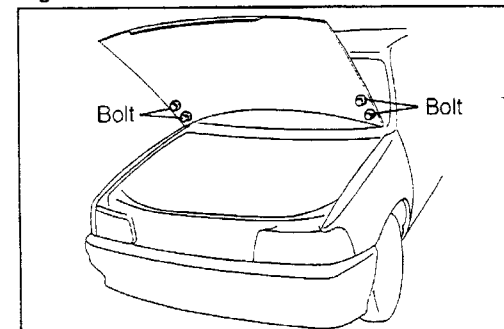


Fig. 5-42

WM-05049

33. Fill the engine oil.

API Classification: CB23 SC-SF  
CB61 and CB80 SD-SF

Lubrication oil capacity: 2.7 liter

Classification: API SC, SD, SE or SF

	CB-23	CB-61	CB-80
Engine oil capacity	litre 3.2	3.2	3.3

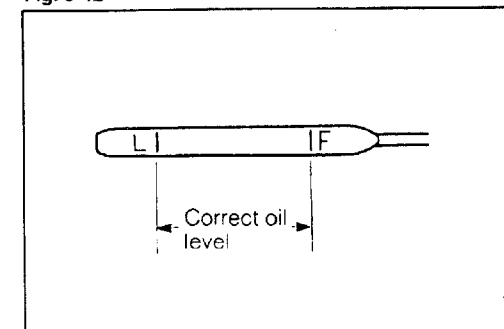


Fig. 5-43

WM-05050