

- (3) Turn the crankshaft, until the stamped mark of the balance shaft drive gear of the crankshaft is aligned with the stamped mark of the balance shaft gear. Then, insert the balance shaft into position.

NOTE:

When the balance shaft is inserted, be careful not to damage the balance shaft bearing.

- (4) Install the thrust washer to the cylinder block by tightening the hexagon bolts.

NOTE:

Use a hexagon wrench key whose width across flats is 5 mm.

- 15. Install the oil pump drive sprocket to the balance shaft.

- 16. Install the balance weight to the balance shaft. Insert the washer and tighten the bolt.

NOTE:

When tightening the bolt, prevent the crankshaft from turning, using the following SST at the flywheel side.

SST: 09210-87701-000

- 17. Installation of oil pump with oil pump outlet pipe

- (1) Replace the "O" ring of the oil pump outlet pipe with a new one. Insert the oil pump outlet pipe into the oil pump, being careful not to damage the "O" ring.
- (2) Mount the oil pump with the oil pump outlet pipe on the cylinder block.
- (3) Insert the oil pump outlet pipe into the cylinder block, being careful not to damage the "O" ring.
- (4) Install the bolts to each bolt hole temporarily.

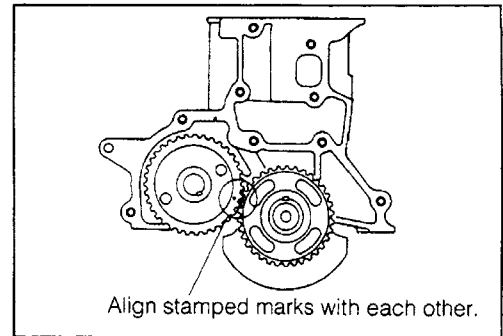


Fig. 5-304

WM-05365

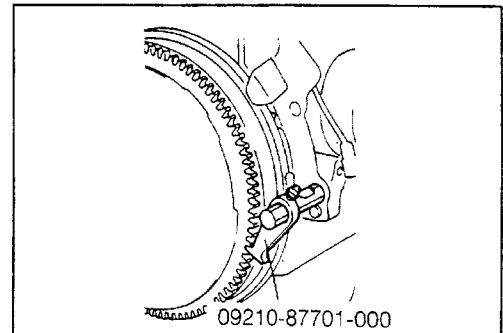


Fig. 5-305

WM-05366

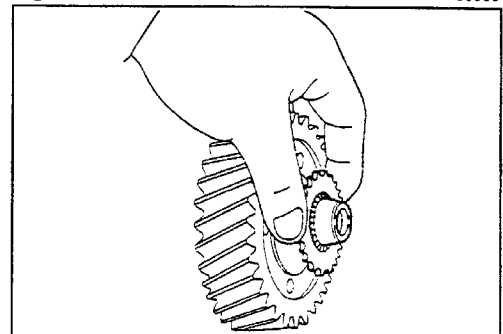


Fig. 5-306

WM-05367

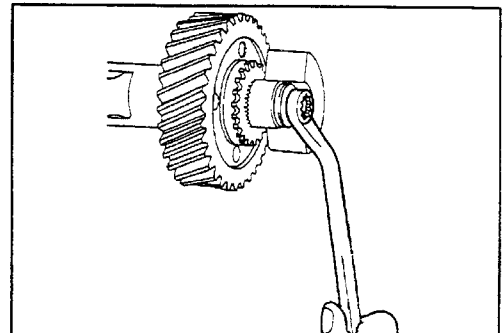


Fig. 5-307

WM-05368

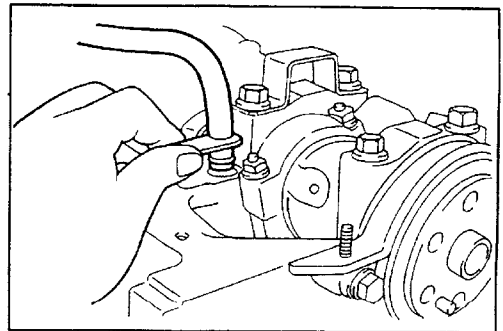


Fig. 5-308

WM-05369

ENGINE MECHANICALS

- (5) Tighten the attaching bolts of the oil pump outlet pipe. Ensure that no excessive force is applied to the connecting section with the oil pump.
- (6) Tighten the attaching bolts of the oil pump.
Tightening Torque: 1.5 - 2.2 kg-m (11 - 16 ft-lb)

18. Install the oil nozzle. (CB-80 engine only)
Tightening Torque: 3.0 - 3.5 kg-m (22 - 25 ft-lb)

NOTE:

The oil jet can be distorted very easily. Hence, be very careful in handling the oil nozzle assembly so that the assembly may not be damaged.

19. Installation of oil pump drive sprocket and oil pump drive chain assembly
 - (1) Install the oil pump drive chain to the oil pump sprocket at the balance shaft side.
 - (2) With the side having the stamped mark "CB OUTSIDE" facing toward the front side of the engine, install the oil pump drive sprocket to the oil pump with the drive chain installed in place. Then, tighten the attaching nut.

20. Installation of balance shaft gear cover.

- (1) Drive a new oil seal into position, using the following SST.
SST: 09515-87202-000

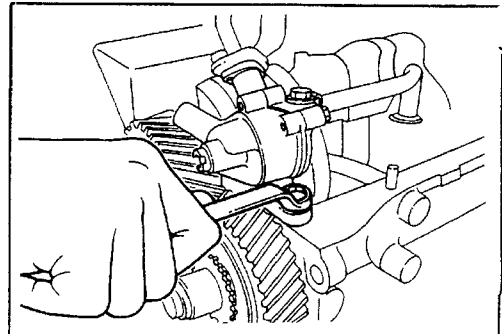


Fig. 5-309

WM-05370

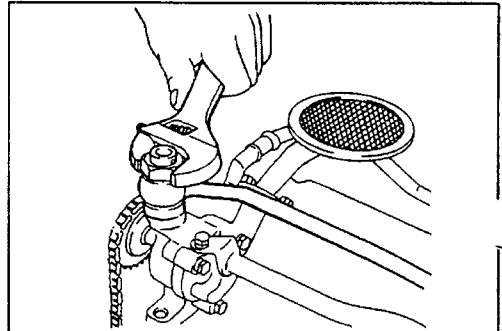


Fig. 5-310

WM-05371

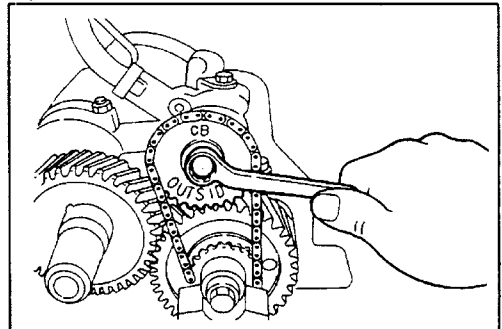


Fig. 5-311

WM-05372

WM-05C

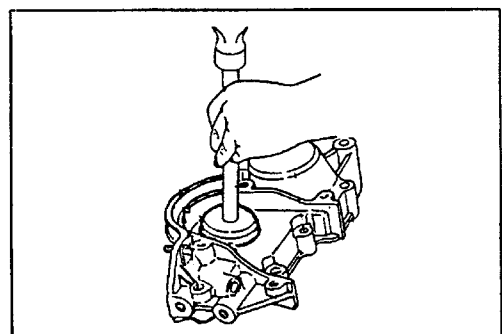


Fig. 5-312

WM-05374

- (2) Install the balance shaft gear cover.
Tightening Torque: 1.0 - 1.6 kg-m (7.2 - 11.6 ft-lb)

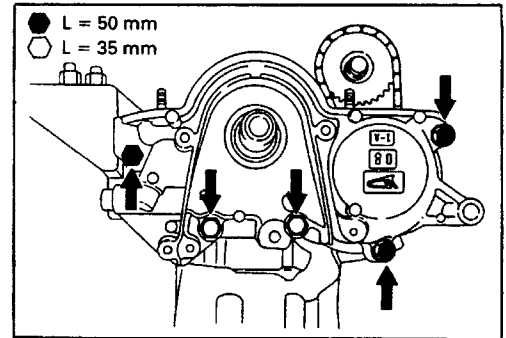


Fig. 5-313 WM-05375

- 21. Installation of oil pan
 - (1) Apply silicon bond to the cylinder block at the points indicated in the right figure.
Sealer to be Used: Silicon Bond

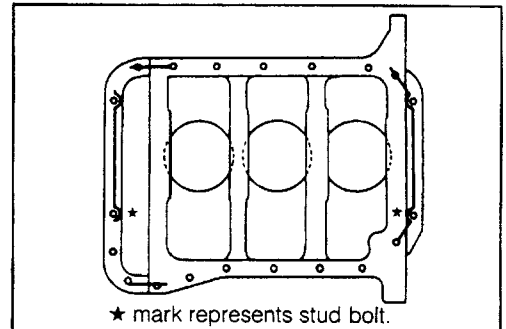


Fig. 5-314 WM-05376

- (2) Apply Silicon Bond to the new oil pan gasket at the points indicated in the right figure.
Sealer to be Used: Silicon Bond

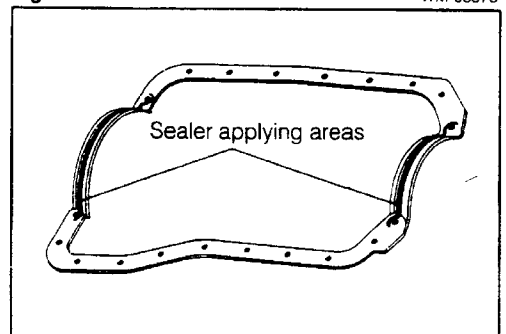


Fig. 5-315 WM-05377

- (3) Install the oil pan gasket applied with silicon bond to the cylinder block, aligning with the stud bolts at the cylinder block.
- (4) Install the oil pan, aligning with the stud bolts at the cylinder block.
- (5) Tighten the oil pan bolts and nuts in the sequence indicated in the right figure.
Tightening Torque: 0.4 - 0.7 kg-m (2.9 - 5.1 ft-lb)

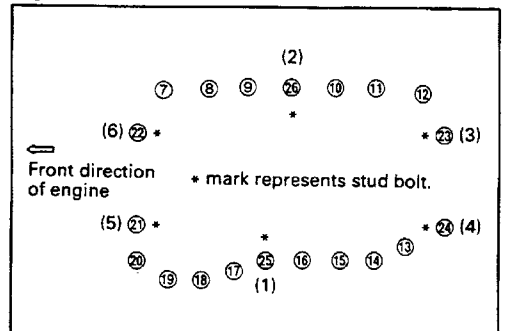


Fig. 5-316 WM-05378

NOTE:
The numerals in () in the right figure denote the sequence of the temporal tightening for the stud bolts.

- 22. Installation of dust seal (lower)
 - (1) Unlock the SST. Turn over the cylinder block.
 - (2) Install the dust seal on the balance shaft gear cover.

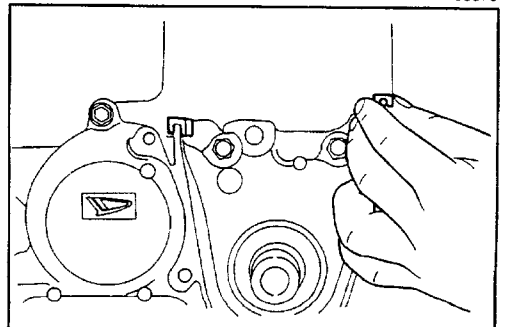


Fig. 5-317 WM-05379

ENGINE MECHANICALS

23. Install the water pump assembly.
24. Install the dust seal (upper).

NOTE:

Be certain that the dust seal is installed in the specified position.

25. Install the water inlet with a new gasket interposed.
26. Installation of water inlet pipe
 - (1) Replace the "O" ring of the water inlet pipe with a new one.
 - (2) Insert the water inlet pipe into the water inlet.
 - (3) Tighten the attaching bolts of the water inlet pipe.

27. Install the oil filter bracket.

28. Install the oil cooler assembly, aligning the mating mark of the oil cooler assembly with the mating mark of the oil filter bracket.

Tightening Torque: 3.0 - 4.0 kg-m (22 - 29 ft-lb)

29. Install the oil cleaner element to the oil cooler.

NOTE:

Prior to the installation, coat the "O" ring of the oil element with a thin film of engine oil. The tightening must be performed by hands. Never use a tool for this purpose.

30. Install the alternator assembly to the cylinder block temporarily.

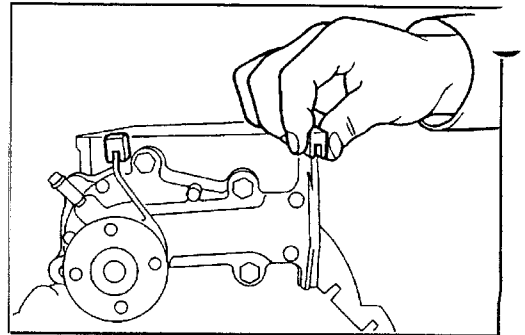


Fig. 5-318

WM-05380

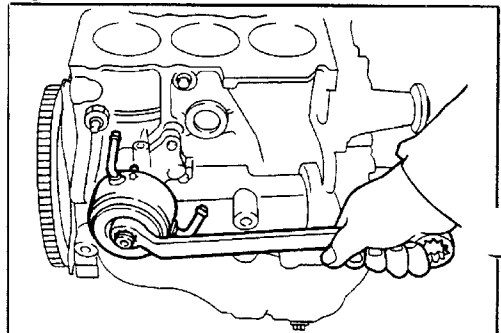


Fig. 5-319

WM-05381

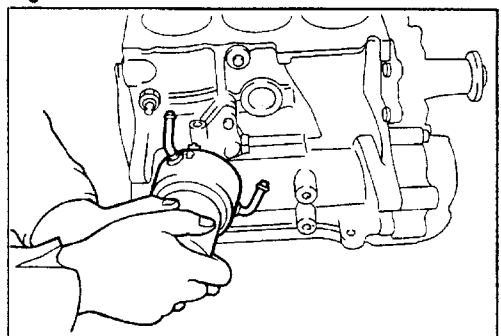


Fig. 5-320

WM-05382