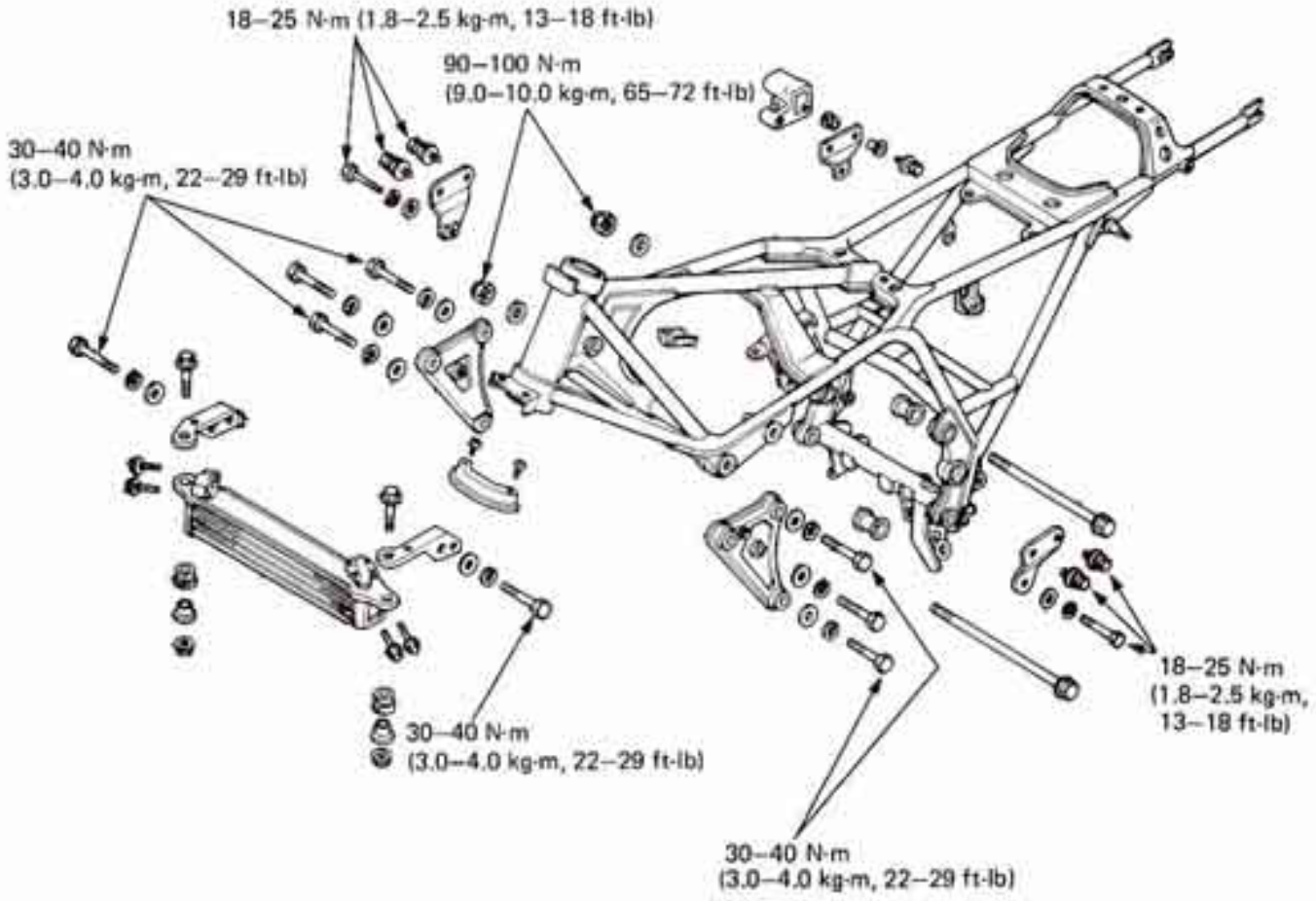


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SERVICE INFORMATION

GENERAL INSTRUCTION

- The following parts or components can be serviced with the engine installed in the frame:
  - Clutch
  - Shift linkage
  - Camshaft
  - A.C. generator
  - Starter motor
- The following parts or components can be serviced with the engine tilted forward in the frame:

NOTE

The engine can be pivoted on the rear lower hanger bolt after removing the front engine hangers, upper engine hangers and three hanger bolts.

- Carburetor
- Cylinder
- Cylinder head
- Piston



SPECIFICATIONS

Engine dry weight	108 kg (238 lb)
Oil capacity	5.5 lit (5.8 U.S. qt) at engine assembly 4.0 lit (4.2 U.S. qt) at draining

TORQUE VALUES

8mm bolt	18–25 N·m (1.8–2.5 kg-m, 13–18 ft-lb)
10 mm bolt	30–40 N·m (3.0–4.0 kg-m, 22–29 ft-lb)
14 mm bolt	90–100 N·m (9.0–10.0 kg-m, 65–72 ft-lb)
Rear axle nut	85–105 N·m (8.5–10.5 kg-m, 62–76 ft-lb)
Drive sprocket	50–54 N·m (5.0–5.4 kg-m, 36–39 ft-lb)
Spark plug	12–16 N·m (1.2–1.6 kg-m, 9–12 ft-lb)

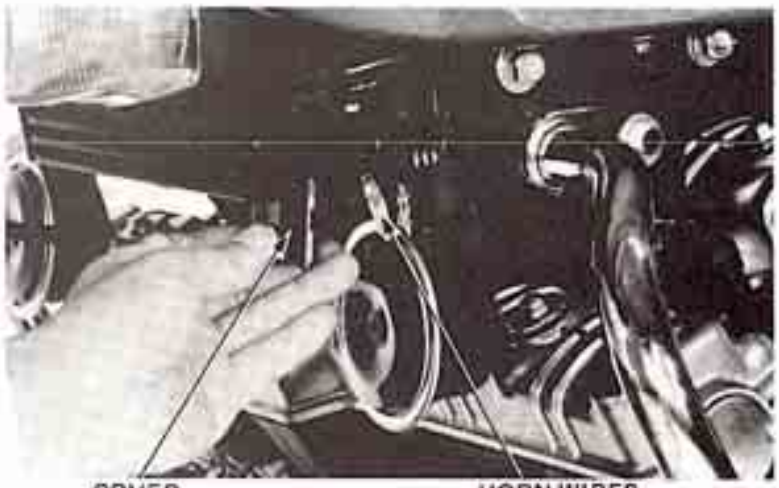
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TILTING ENGINE

Remove the left and right leg shields and engine guard.



Remove the left and right horns by removing the wire connecter covers and disconnecting the horn wire terminals.

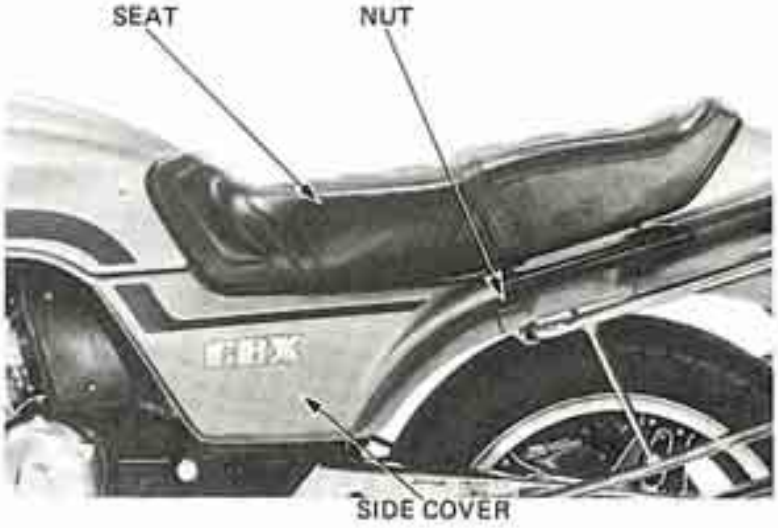


Disconnect the fairing wire connecter and remove the fairing.
(Fairing Removal page 13-18)



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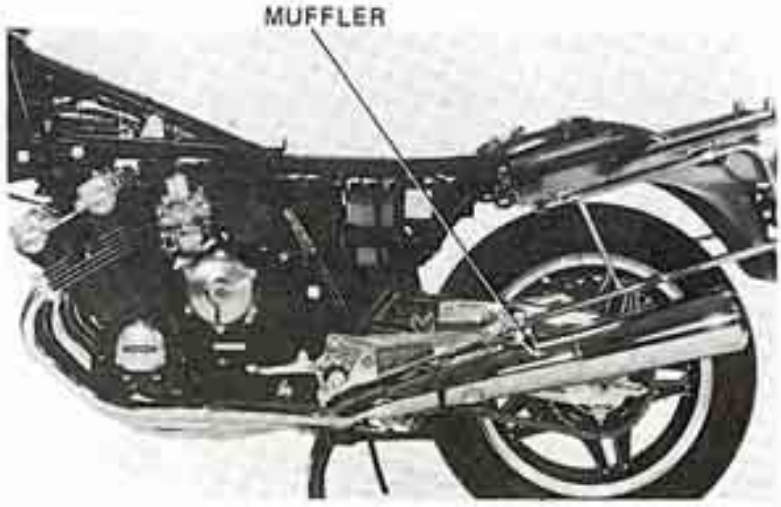
Remove the left and right side covers.
Remove the seat mounting nuts.
Pull the seat back and remove it.



Remove the air cleaner cover.
Remove the fuel tank.



Remove the exhaust system.

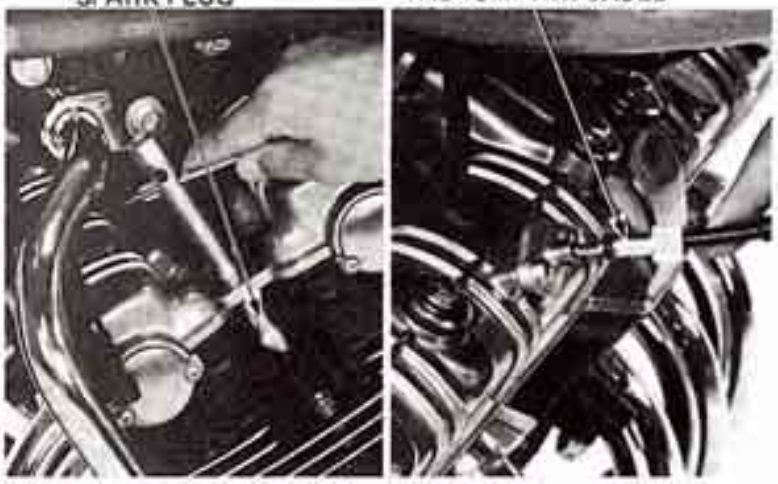


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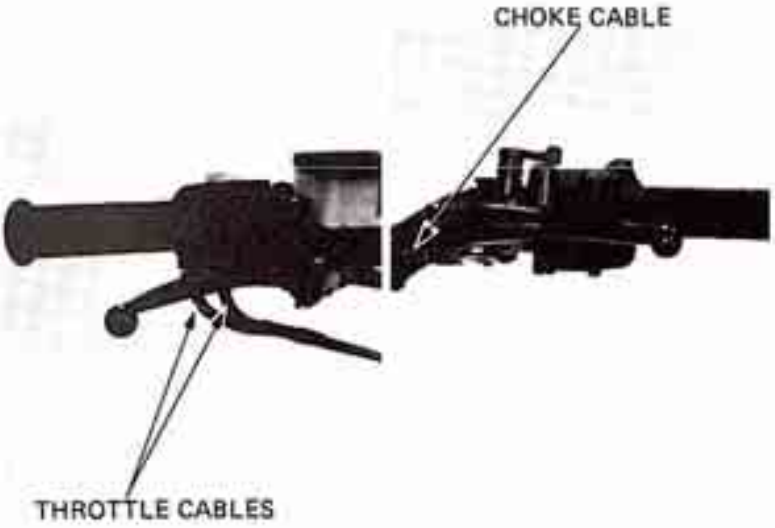
Remove the tachometer cable from the cylinder head cover.
Remove all spark plug caps and the No. 1 and 6 spark plugs.

NOTE

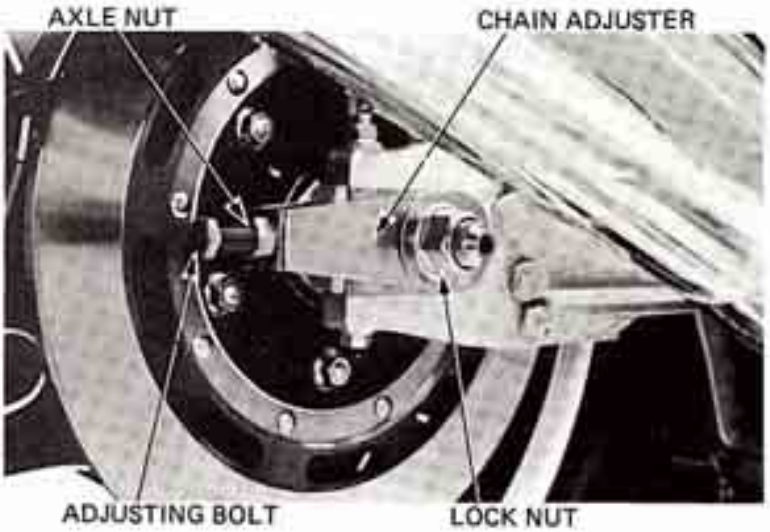
Do not allow anything to fall into the cylinders through the spark plug holes.



Remove the choke cable from the choke lever.
Remove the throttle cables from the right handlebar switch.

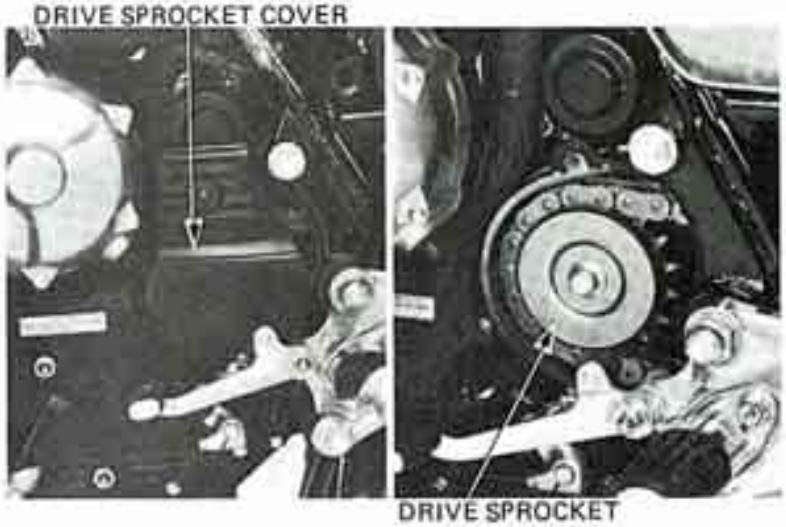


Loosen the rear axle nut and drive chain adjusting bolt.
Slide the chain adjusters down. Push the rear wheel forward.

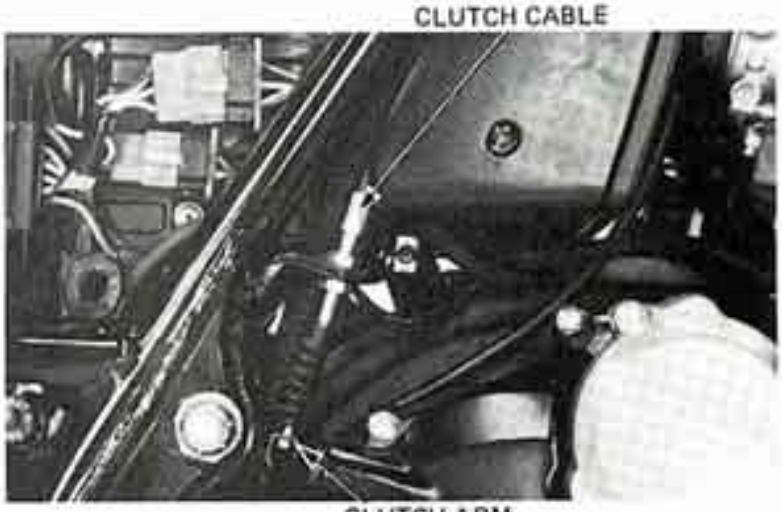


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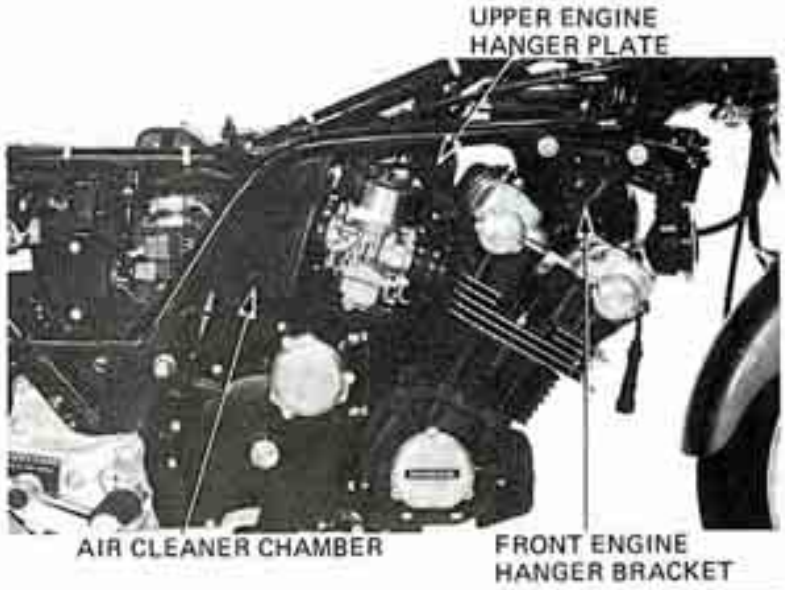
Remove the drive sprocket cover.
Remove the drive sprocket bolt and disengage the drive chain from the drive sprocket by removing the drive sprocket.
Remove the gear change pedal.



Remove the clutch cable from the clutch arm.

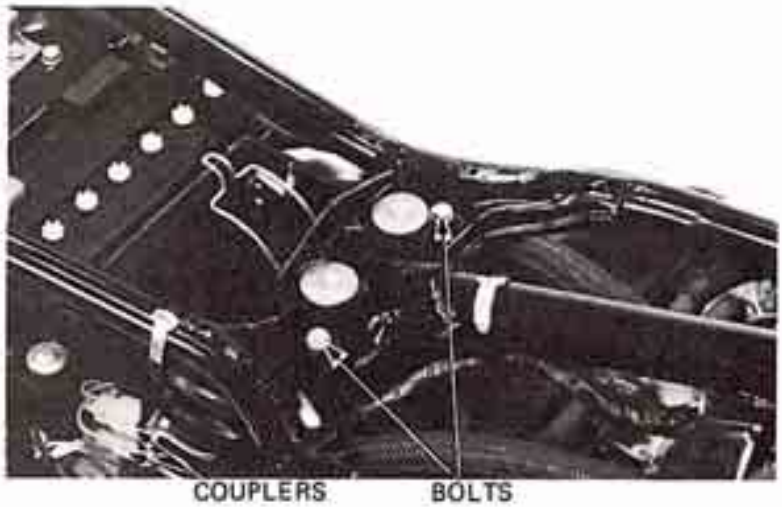


Place a jack under the engine.
Remove the left and right front engine hanger brackets and upper engine hanger plates.
Loosen the air chamber connecting tube band screw.

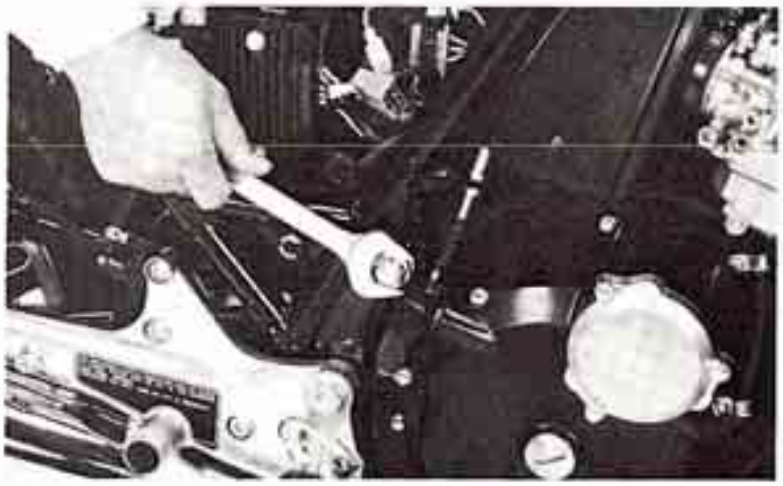


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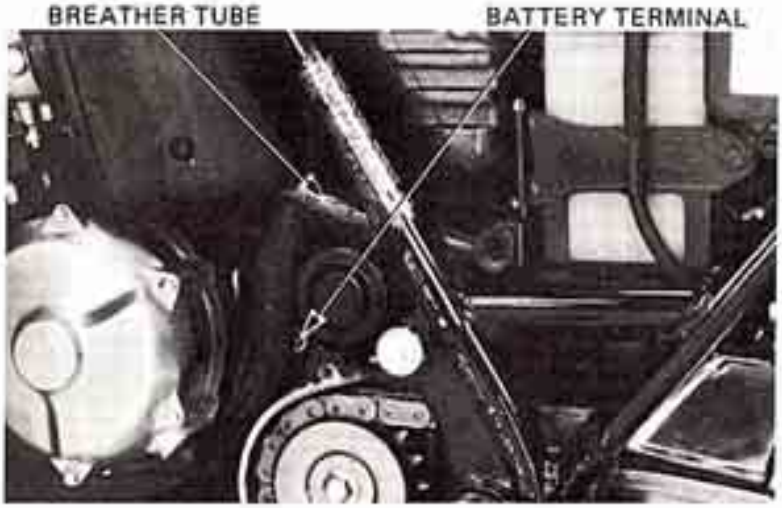
Remove the two bolts holding the air chamber.
Disconnect the three couplers.



Remove the rear upper engine hanger bolt.



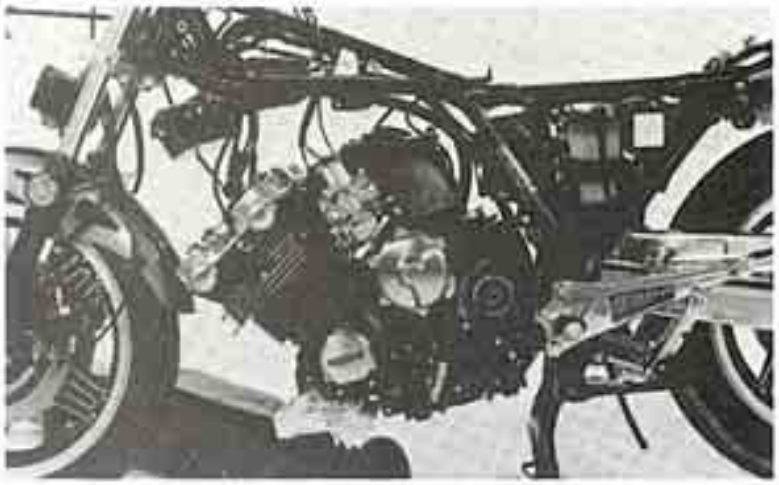
Remove the battery negative terminal at the starter motor.
Disconnect the breather tube.
Loosen the rear engine hanger bolt.
Tilt the engine forward on the rear lower hanger bolt by lowering the jack.



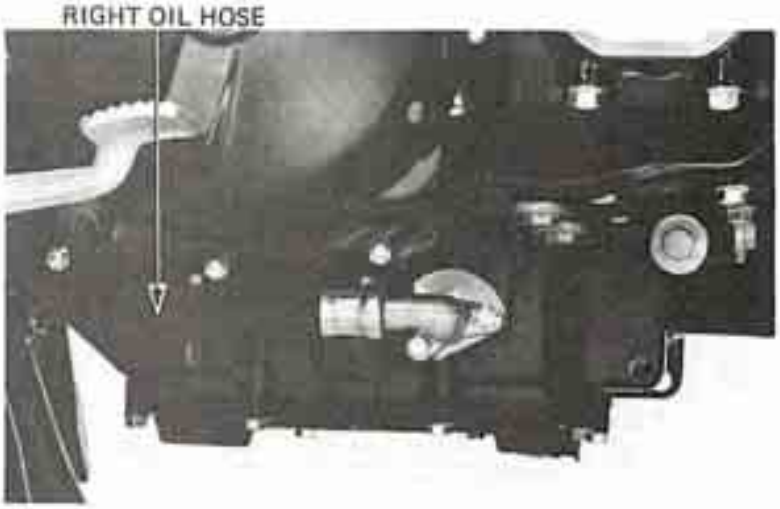
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ENGINE REMOVAL

Drain oil from the engine.
Perform tilting engine procedures (page 5-2).
Disconnect the throttle cables and choke cable from the carburetor.



Remove the right oil hose cover and remove the oil hose.
Remove the brake pedal.



Remove the left oil hose and remove the oil hose.

Remove the rear engine mounting bolt.
Lower the jack and remove the engine.

NOTE

Jack height must be continuously adjusted during engine removal and installation to prevent damage to mounting bolt threads, wire harnesses and cables.



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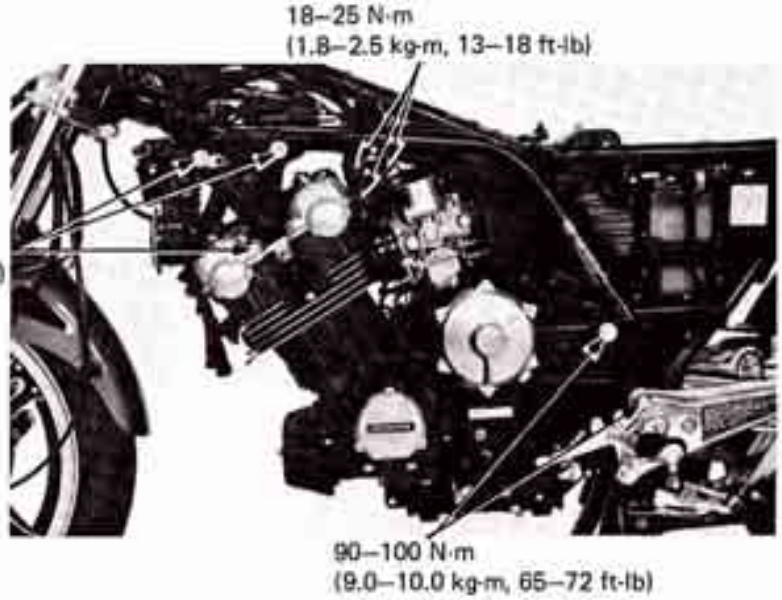
ENGINE INSTALLATION

The installation sequence is essentially the reverse of removal.

NOTE

- Do not damage parts during installation.
- Route the wires and cables properly (Page 1-8).
- Fill the crankcase to the proper level (Page 2-1).
- Perform the following inspection and adjustments: Throttle cable free play (Page 3-19).
  Clutch lever free play (Page 3-6).
  Drive chain tension (Page 3-15).
  Choke cable free play (Page 3-9).





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