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## SERVICE INFORMATION

### GENERAL INSTRUCTIONS

The following parts or components can be serviced with the engine installed in the frame.

- Clutch
- Shift linkage
- Camshaft
- Carburetor
- A. C. generator
- Starter motor
- Cylinder head
- Cylinder
- Piston
- Cam chain tensioner
- Oil pump

### TORQUE VALUES

8 mm bolt	2.6-3.2 kg-m (19-23 ft-lb)
10 mm bolt	3.0-4.0 kg-m (22-29 ft-lb)
12 mm bolt	8.0-10.0 kg-m (58-72 ft-lb)
Rear axle nut	8.0-10.0 kg-m (58-72 ft-lb)
Spark plug	1.2-1.6 kg-m (9-12 ft-lb)
Swing arm pivot	6.0-7.0 kg-m (43-51 ft-lb)

### SPECIFICATIONS

Engine dry weight	70 kg (154.4 lb) approx.
Oil capacity	3.5 lit (3.7 US qt) at engine assembly
	3.0 lit (3.2 US qt) at oil change

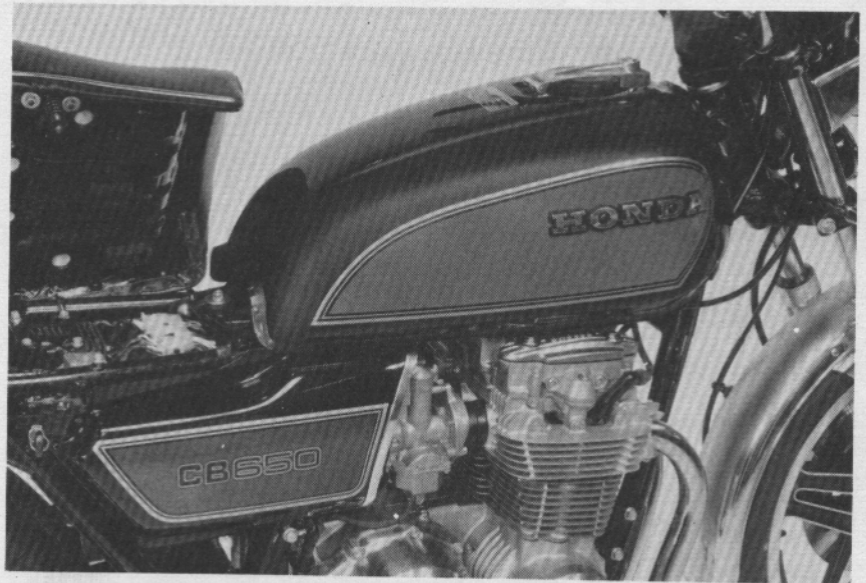


## ENGINE REMOVAL

Drain the engine oil (See page 2-2).

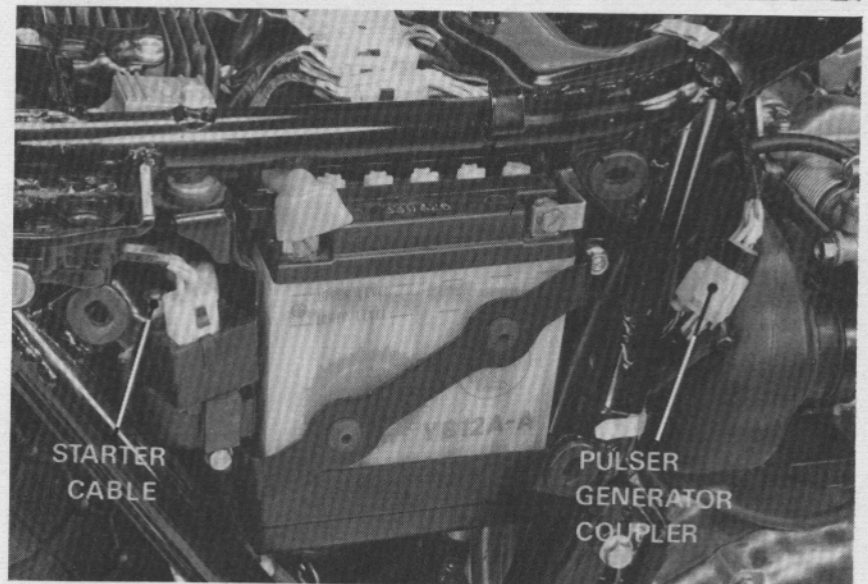
Turn the fuel valve OFF.

Raise the seat and remove the fuel tank and both side covers.



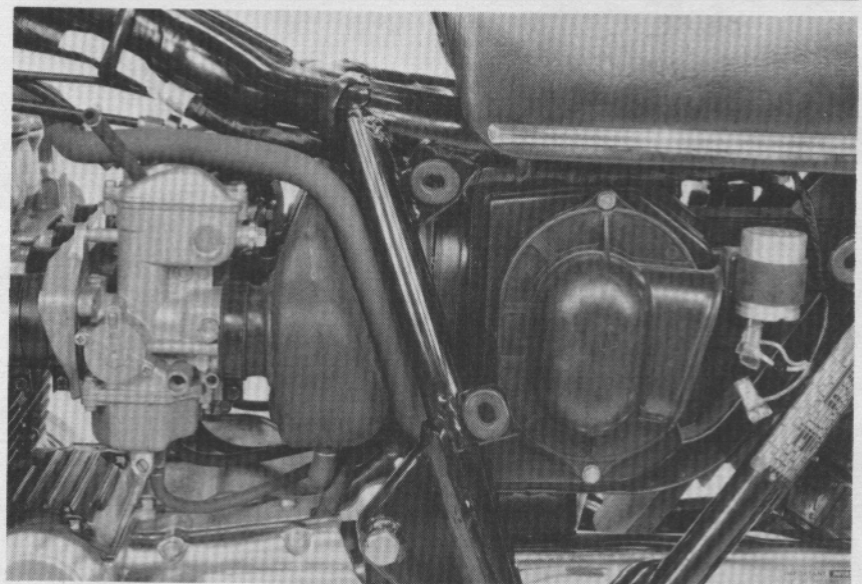
Disconnect the starter cable at the starter relay switch.

Disconnect the pulser generator coupler.



Disconnect the crankcase breather tube from the breather cover.

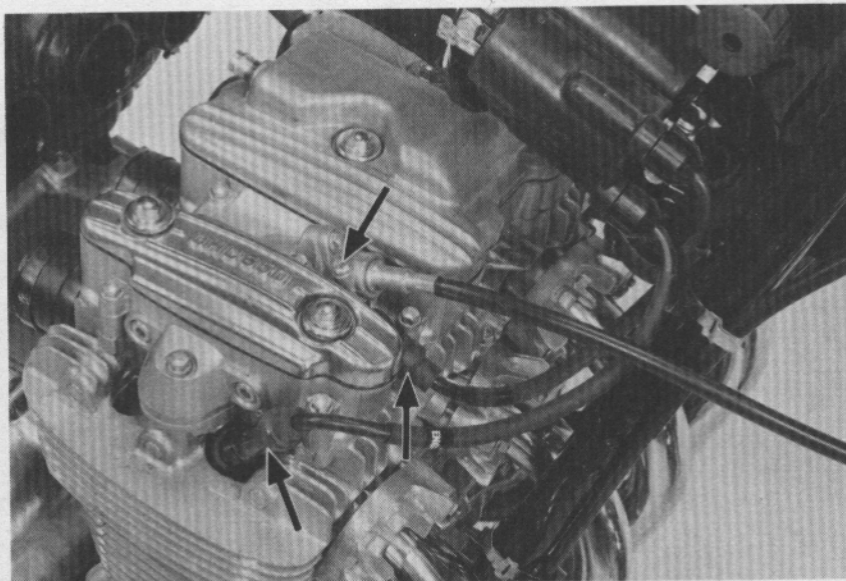
Remove the carburetor (Page 4-3).



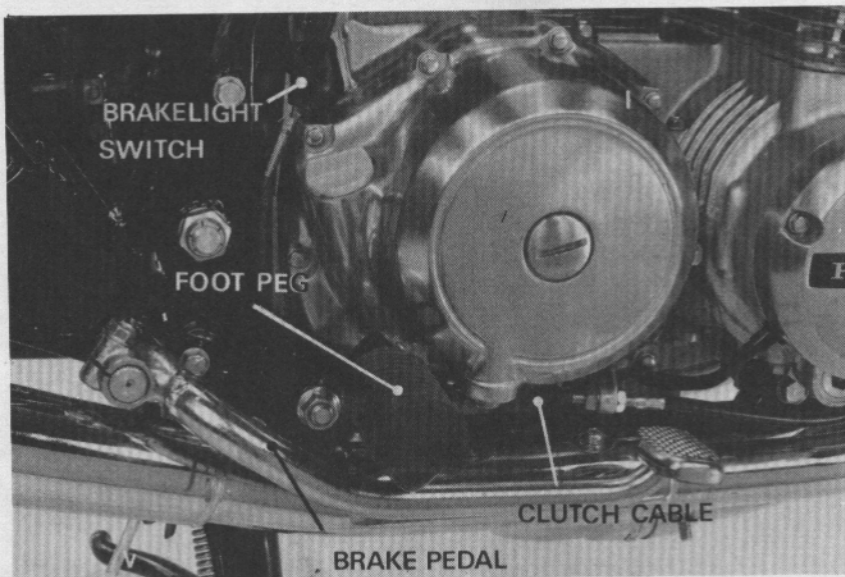




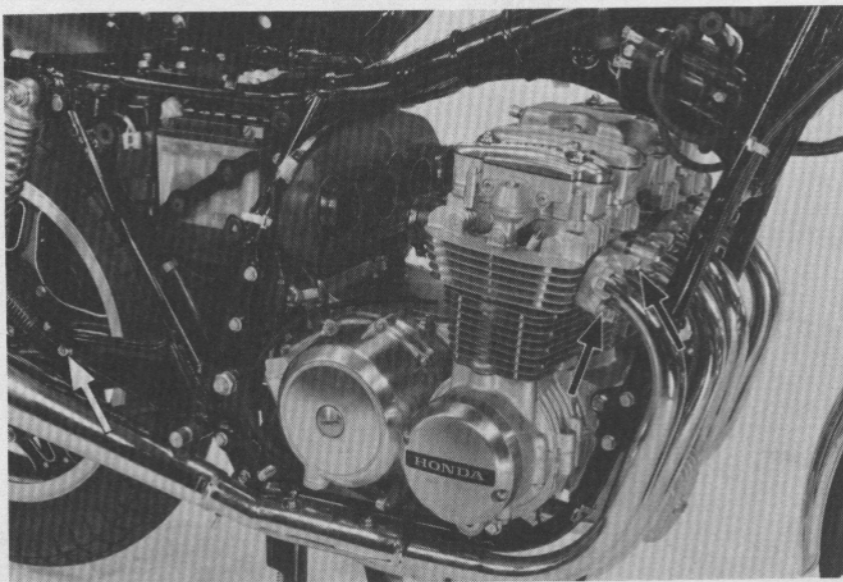
Remove the spark plug caps.  
Disconnect the tachometer cable.



Disconnect the clutch cable at the clutch arm.  
Remove the brake pedal.  
Remove the right foot peg.  
Remove the brakelight switch.



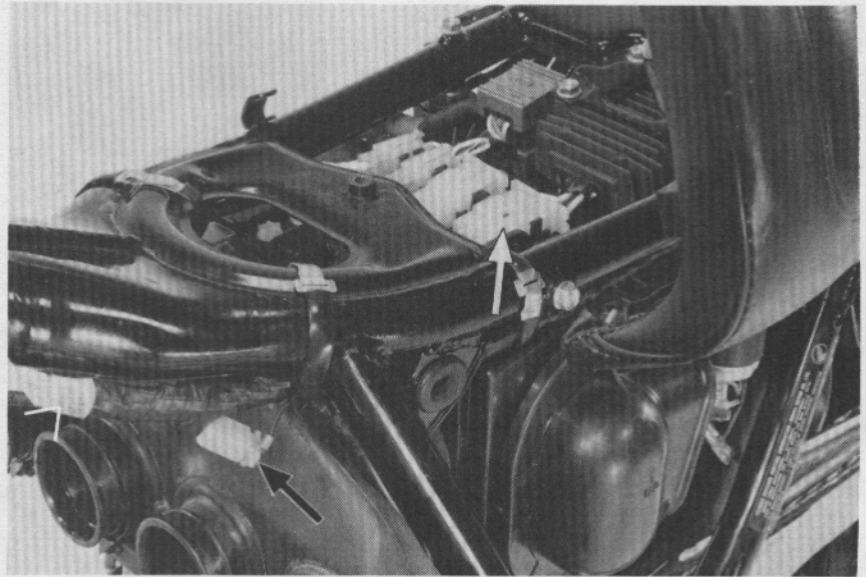
Remove the exhaust system.



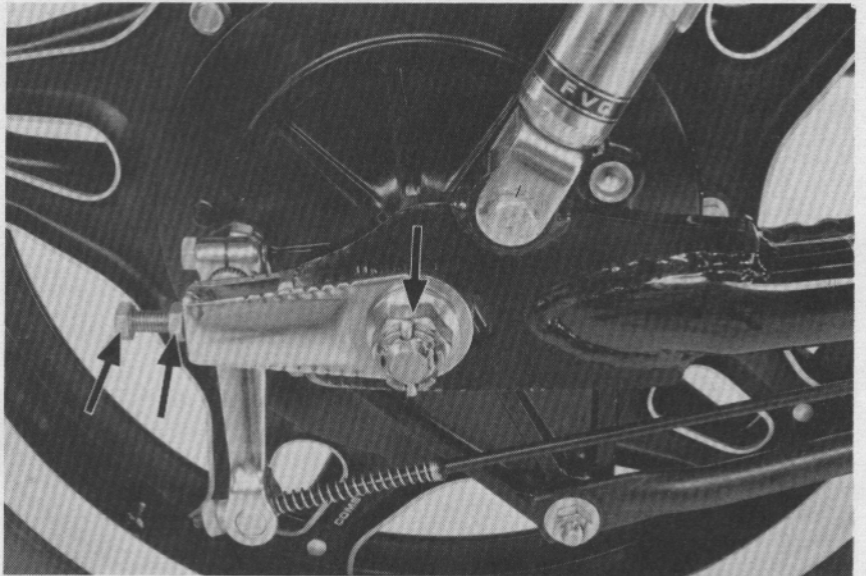




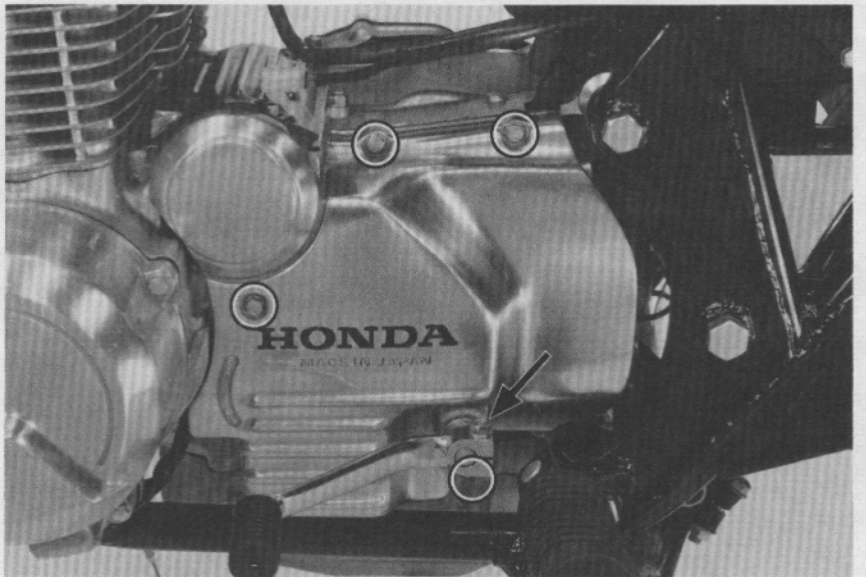
Disconnect the A. C. generator coupler.  
 Disconnect the neutral and oil pressure switch coupler.



Remove the cotter pin and loosen the rear axle nut.  
 Loosen both chain adjusters and push the rear wheel forward.

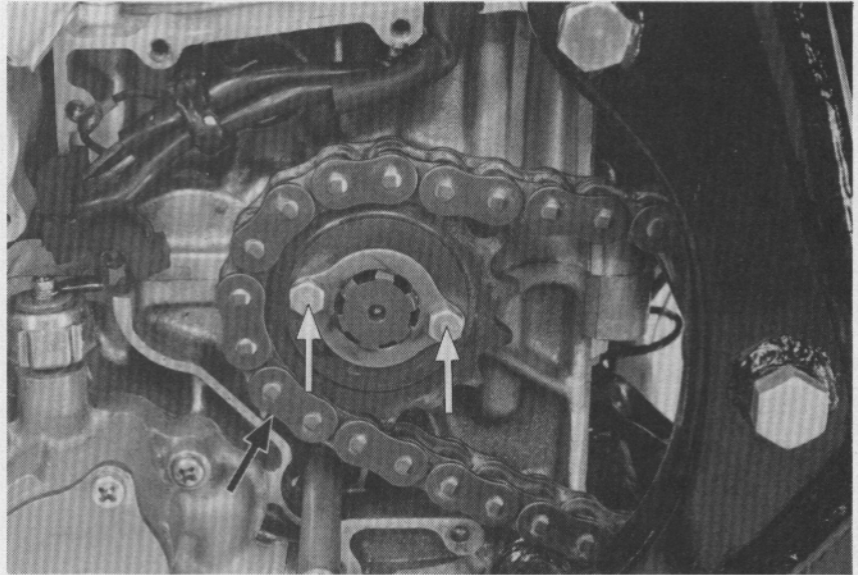


Remove the gearshift pedal.  
 Remove the left rear crankcase cover.

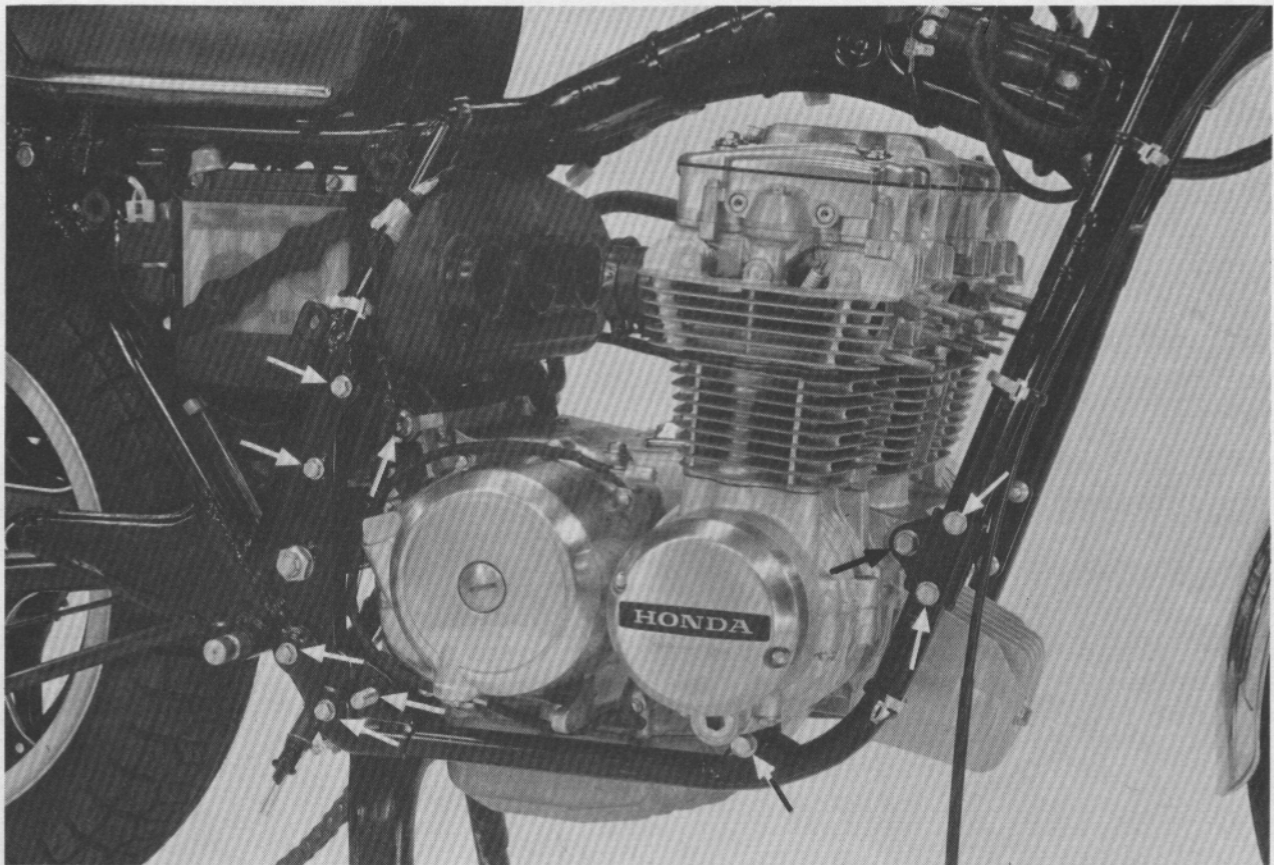




Remove the drive sprocket and drive chain.  
Drain the engine oil.  
Remove the oil filter.



Place a jack under the engine.  
Remove the engine hanger brackets and bolts.  
Remove the engine from the right side.







## ENGINE INSTALLATION

The installation sequence is essentially the reverse of removal.

### NOTE

- Route the wires and cables properly (Pages 1-10 to 1-11).
- Fill the crankcase to the proper level (Page 2-2).
- Perform the following inspections and adjustments:
  - Throttle cable free play (Page 3-7)**
  - Clutch lever free play (Page 3-16)**
  - Drive chain free play (Page 3-12)**
  - Choke cable (Page 3-8)**
  - Idle speed (Page 3-11)**

<b>TORQUE VALUES:</b> 8 mm flange bolt/nut	2.6-3.2 kg-m (19-23 ft-lb)
10 mm flange bolt/nut	3.0-4.0 kg-m (22-29 ft-lb)
12 mm flange bolt/nut	8.0-10.0 kg-m (58-72 ft-lb)

