

5. ENGINE REMOVAL/INSTALLATION

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## **5. ENGINE REMOVAL/INSTALLATION**

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### **SERVICE INFORMATION**

#### **GENERAL INSTRUCTIONS**

- Parts requiring engine removal for servicing:
  - Crankcase
  - Crankshaft

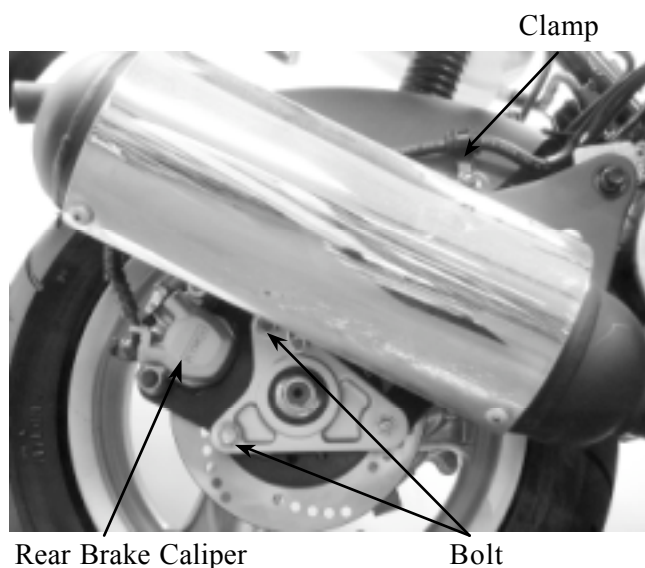
#### **TORQUE VALUES**

Engine mounting bolt	44.1_	53.9N-m
Engine hanger bracket bolt	44.1_	53.9N-m
Rear shock absorber lower mount bolt	23.5_	29.4N-m
Rear shock absorber upper mount bolt	34.3_	44.1N-m

## 5. ENGINE REMOVAL/INSTALLATION

### ENGINE REMOVAL

Remove the frame body cover. (⇒2-2)  
 Remove the brake fluid tube bolt of the rear brake caliper.  
 Remove the rear brake caliper bolt and the rear brake caliper.

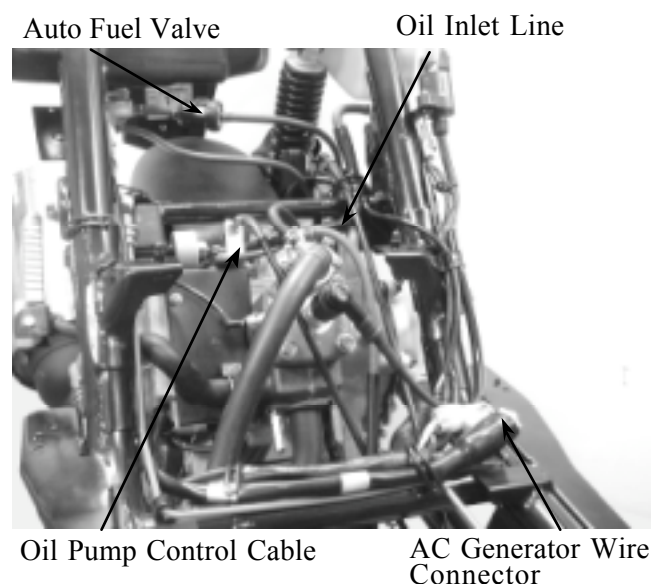


Disconnect the oil pump control cable from the pump body.  
 Disconnect the oil inlet line from the oil pump.

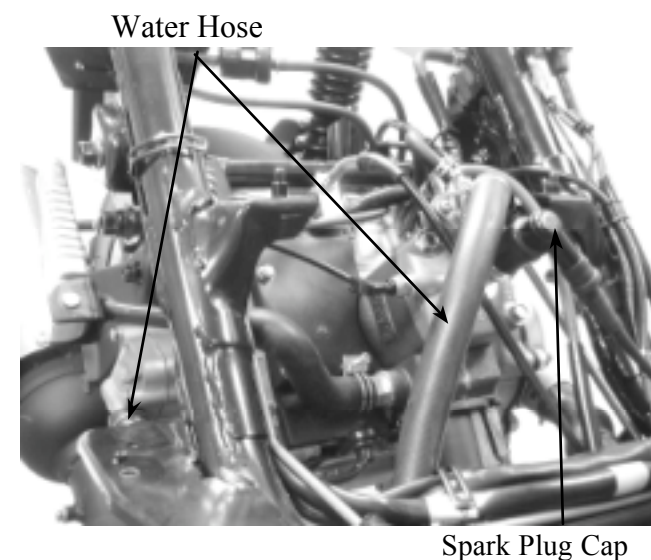
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After the oil inlet line is disconnected, plug the oil line opening to prevent oil from flowing out.

Disconnect the auto bystarter, A.C. generator, thermosensor wire couplers and starter motor wire connectors.  
 Disconnect the fuel tube and vacuum tube that go to the carburetor from the auto fuel valve.

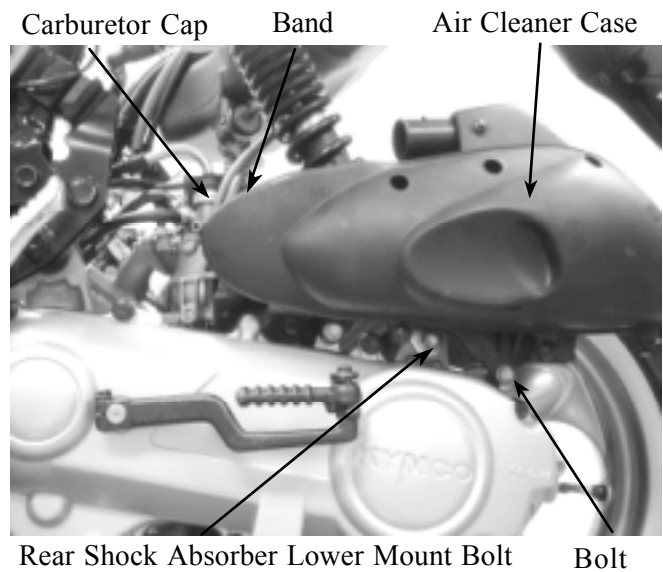


Remove the spark plug cap.  
 Drain the coolant. (⇒3-10)  
 Disconnect the water hose.

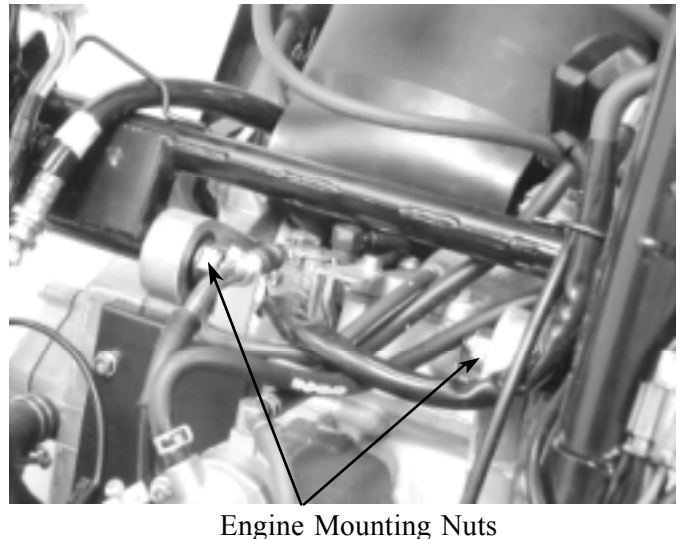


## 5. ENGINE REMOVAL/INSTALLATION

Remove the two bolts attaching the air cleaner case.  
Loosen the band between the air cleaner and carburetor to remove the air cleaner case.  
Remove the carburetor cap.  
Remove the rear shock absorber lower mount bolt.



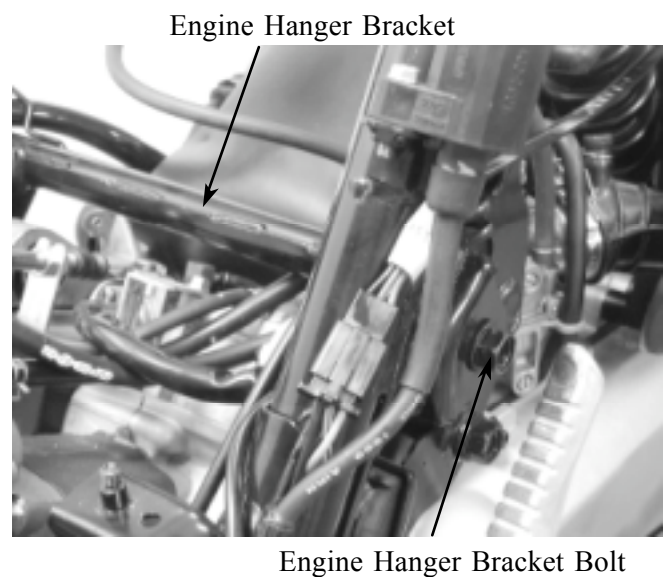
Remove the right and left engine mounting nuts.  
Take out the right and left engine mounting bolts.  
Lift the frame upward to separate it from the engine and be careful not to damage .



### ENGINE HANGER BRACKET REMOVAL

Remove the engine hanger bracket bolt and engine hanger bracket.  
The installation sequence is the reverse of removal.

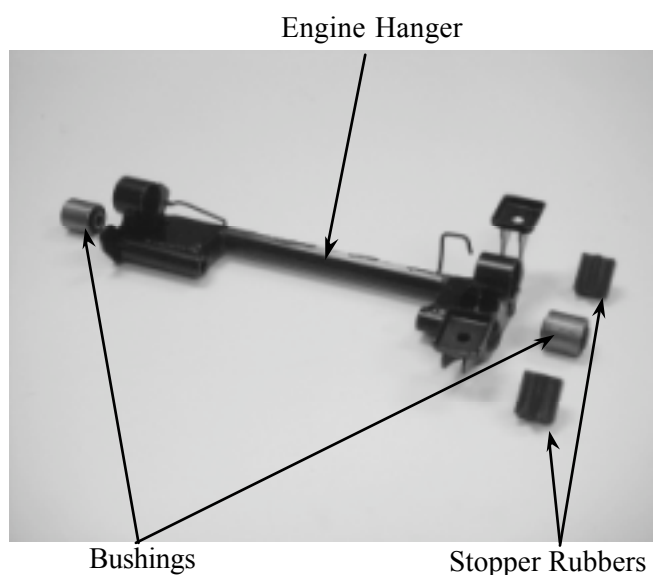
**Torque:** 44.1\_ 53.9N-m



## 5. ENGINE REMOVAL/INSTALLATION

### ENGINE HANGER BRACKET INSPECTION

Inspect the stopper rubbers and bushings for damage and replace with new ones if necessary.



### ENGINE INSTALLATION

Install the engine in the reverse order of removal.

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Cables and wires should be routed properly.

#### Torque Values:

Engine mounting bolt : 44.1\_ 53.9N-m

Rear shock absorber lower mount bolt:  
: 23.5\_ 29.4N-m



Perform the following inspections and adjustments after installation.

- Throttle cable
- Oil pump control cable (⇒4-2)
- Rear brake system (⇒3-11)
- Oil pump bleeding (⇒4-4)

