
ENGINE REMOVAL



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6. ENGINE REMOVAL/INSTALLATION

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- A floor jack or other adjustable support is required to support and maneuver the engine.
Be careful not to damage the machine body, cables and wires during engine removal.
- Use shop towels to protect the machine body during engine removal.
- Parts requiring engine removal for servicing:
 - ☐ Crankcase
 - ☐ Crankshaft

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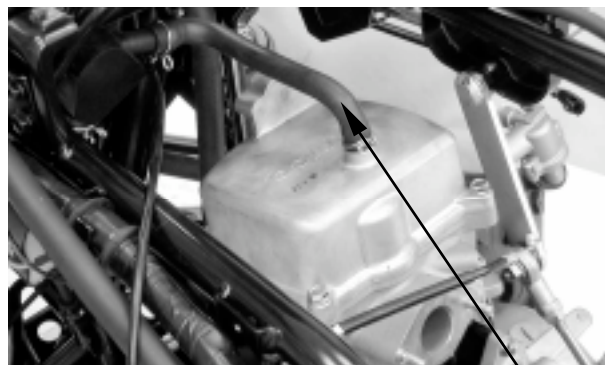
Drain engine oil and transmission oil. (Refer to chapter 3)

Remove frame covers and exhaust pipe.

(Refer chapter 2)

Remove the carburetor. (Refer to chapter 5)

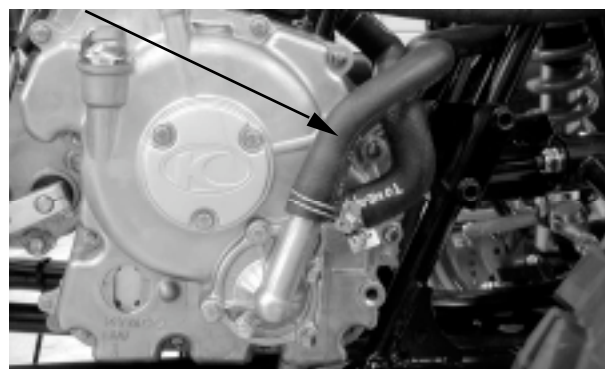
Disconnect the oil recycle tube at the cylinder head cover.



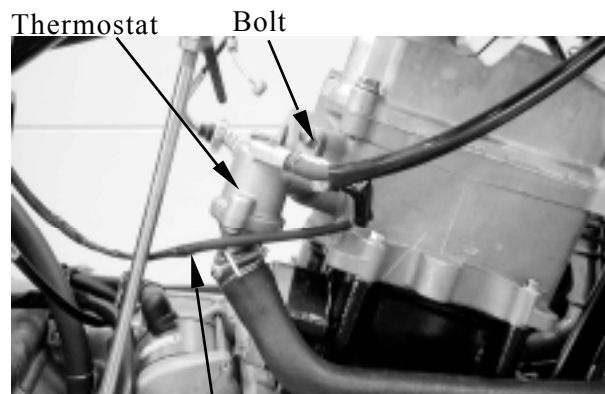
Oil Recycle Tube

Disconnect the water hose from water pump cover.

Water Hose

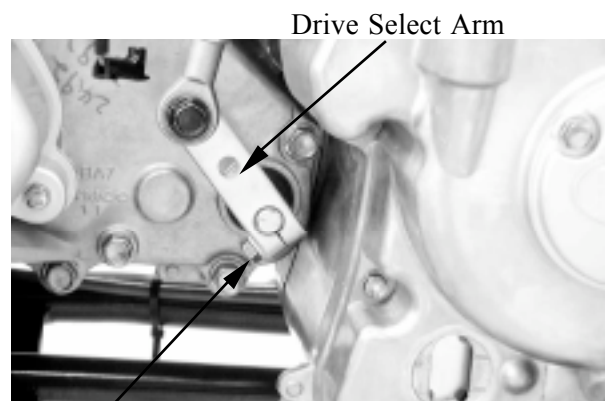


Remove the bolt at the thermostat and disconnect the thermosensor wire, then disconnect the thermostat from the cylinder head.



Thermosensor Wire

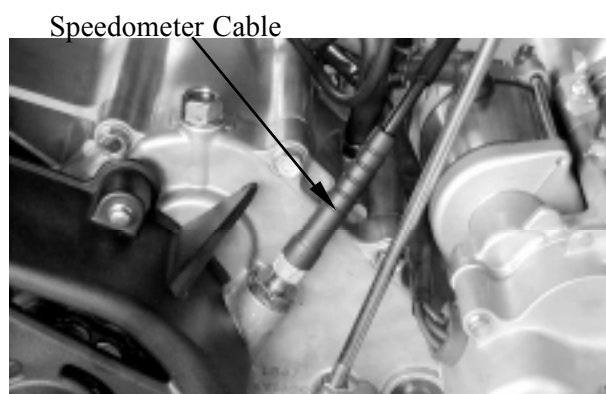
Remove the bolt at the drive select arm, then disconnect the drive select arm from engine assembly.



Bolt

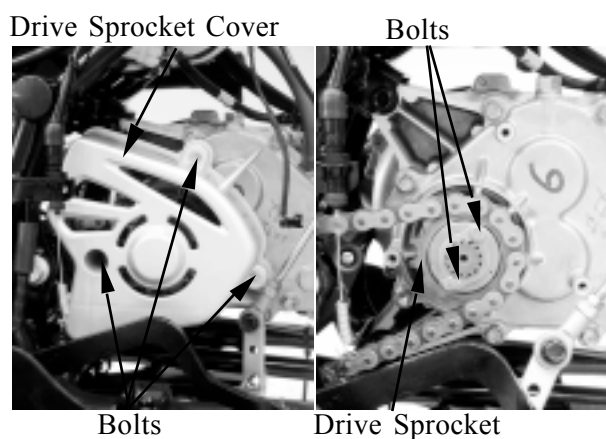
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Disconnect the speedometer cable (ON ROAD only).



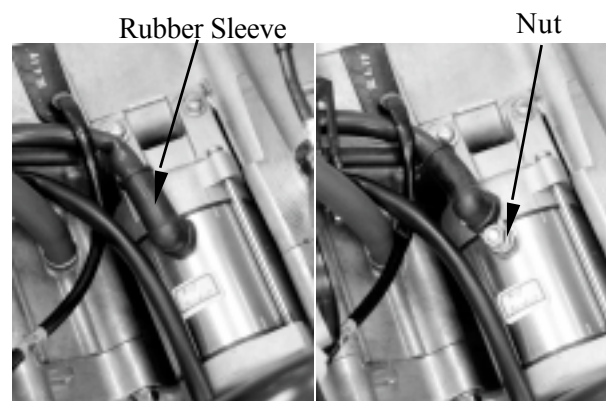
Remove the three bolts at the drive sprocket cover and then remove the drive sprocket cover.

Remove the two bolts on the drive sprocket. Remove the drive sprocket and washer.

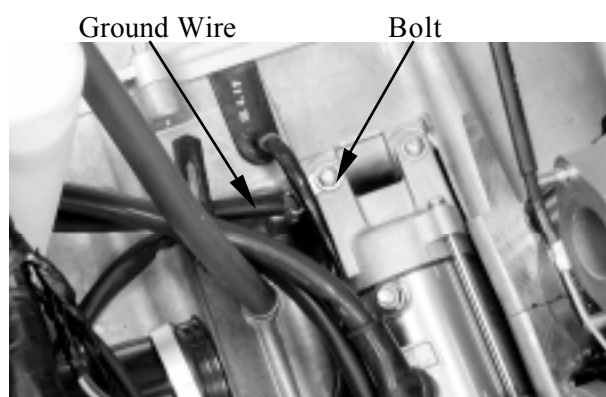


Slide the rubber sleeve back to expose the starter motor wire nut.

Remove the starter motor wire nut for disconnect the starter motor wire.

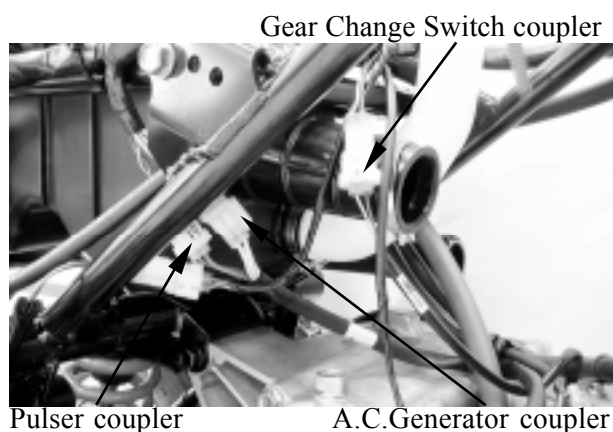


Remove the bolt at the starter motor for disconnect the ground wire lead.

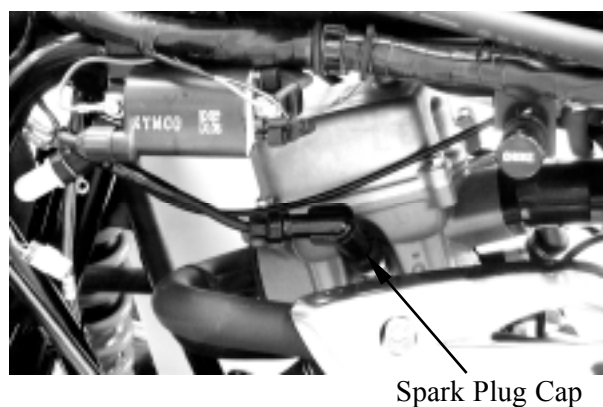


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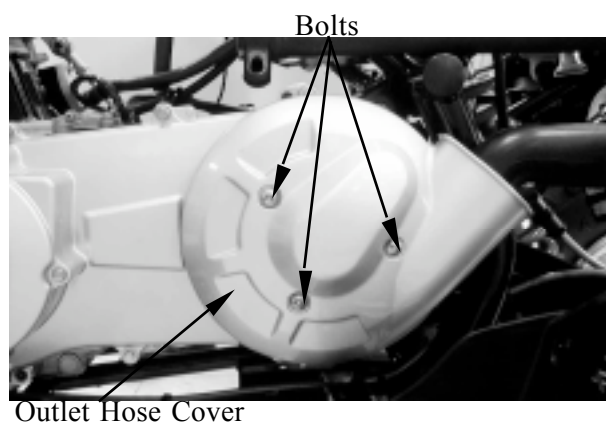
Remove the A.C. Generator, pulser and gear change switch couplers.



Disconnect the spark plug cap.

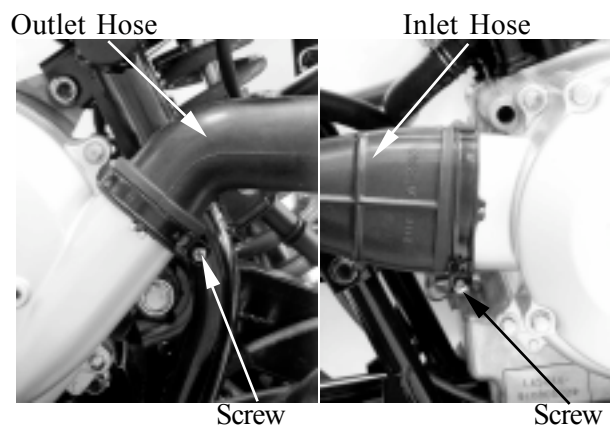


Remove the three bolts and remove the outlet hose cover.



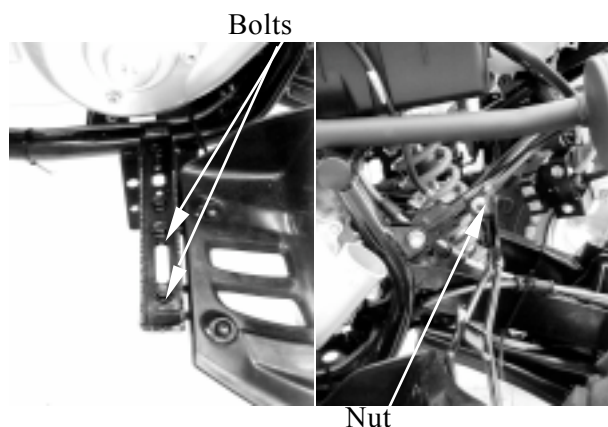
Unscrew the clamp and then disconnect the outlet hose from the left crankcase cover.

Unscrew the clamp and then disconnect the inlet hose from the left crankcase cover.

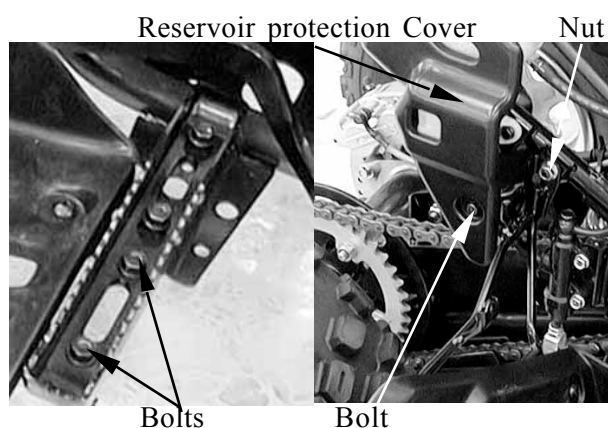


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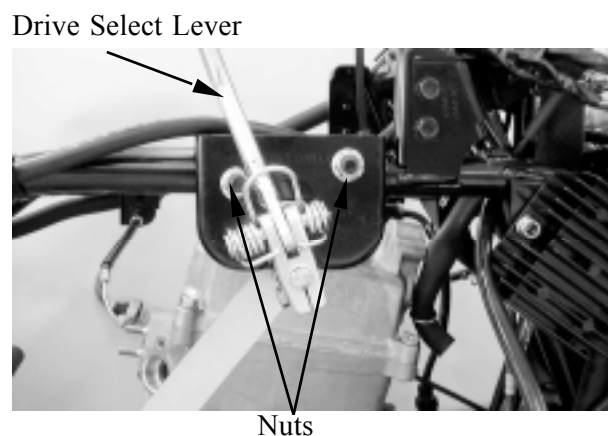
Remove the two bolts at the left foot peg attaching the left floor board holder and remove the nut at the left floor board holder, then remove the left floor board holder.



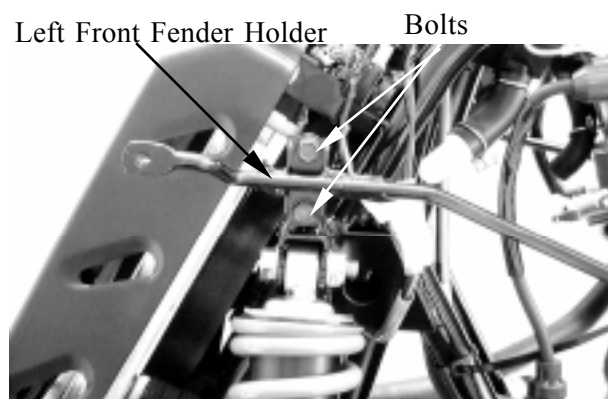
Remove the two bolts at the right foot peg attaching the right floor board holder. Remove the nut at the right floor board holder and bolt attaching the reservoir protection cover, then remove the right floor board holder.



Remove the two nuts and then remove the drive select lever.



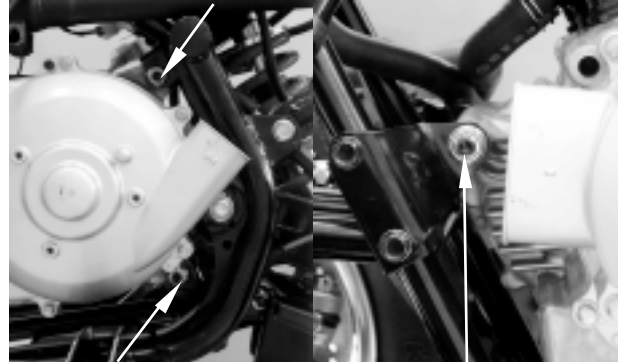
Remove the two bolts at the left front fender holder for remove the left front fender holder.



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Remove the rear lower mounting bolt and nut.
Remove the rear upper mounting bolt and nut.
Remove the front mounting bolts and nuts.

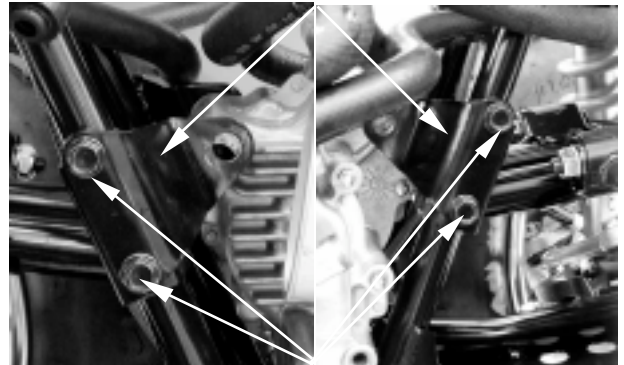
Mounting Bolt and Nut



Mounting Bolt and Nut Mounting Bolt and Nut

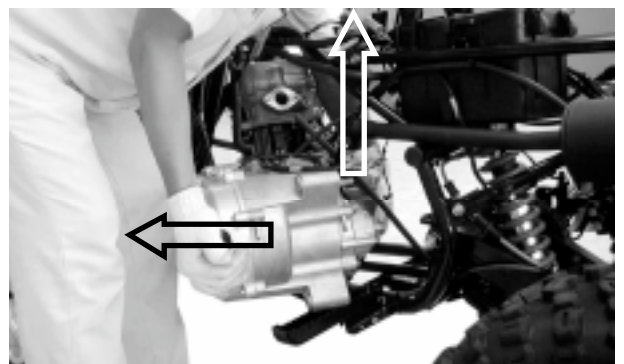
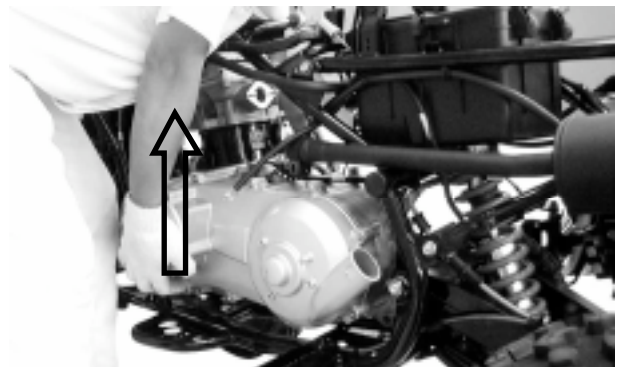
Remove the four bolts for remove the left and right engine brackets.

Brackets



Bolts

Remove the engine assembly to the left side of the machine.



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