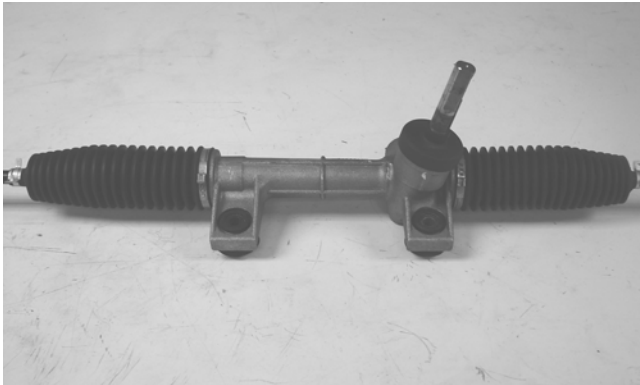


PR305

INSPECTING

■NOTE: Whenever a part is worn excessively, cracked, or damaged in any way, replacement is necessary.

1. Inspect the tie rod ends for damaged threads, torn boots, or excessive wear.
2. Inspect the tie rods for bends or deformation.
3. Inspect the rack and pinion-to-tie rod boots for tears or deterioration.



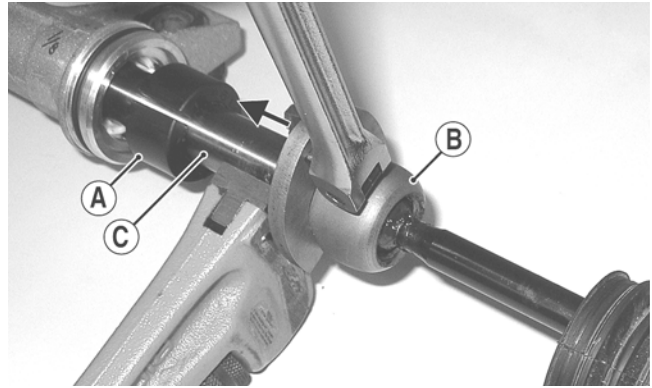
PR307

4. Check boot clamps for security.
5. Check that the rack and pinion assembly operates smoothly with no binding from full-left to full-right position.
6. Inspect for grease seepage from the rack and pinion assembly.

■NOTE: The steering assembly (rack and pinion) is not repairable and must be replaced as an assembly; however, the tie rods and boots are replaceable.

REPLACING TIE RODS/BOOTS

1. Secure the rack and pinion assembly in a vise or other suitable holding fixture; then remove the tie rod end, jam nut, and rack boot.
2. Slide the steering stopper (A) away from the inner tie rod end (B); then hold the rack (C) with a pipe wrench and remove the inner tie rod end from the rack.



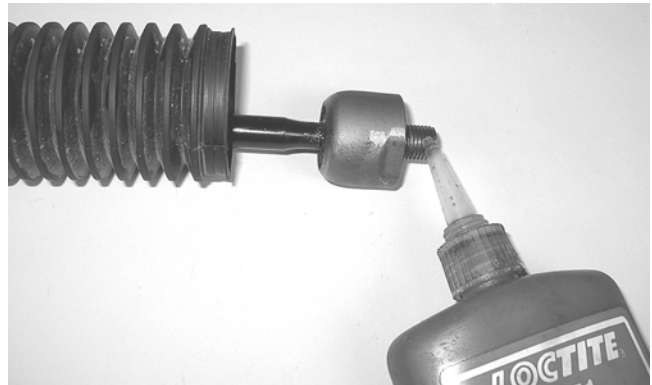
PR523A

3. Clean all Loctite from the threads in the rack and if the tie rod is to be reused, clean the tie rod threads also.



PR526A

4. Coat the thread with red Loctite #271; then install the tie rod into the rack and using an appropriate crow-foot, tighten to 52 ft-lb.

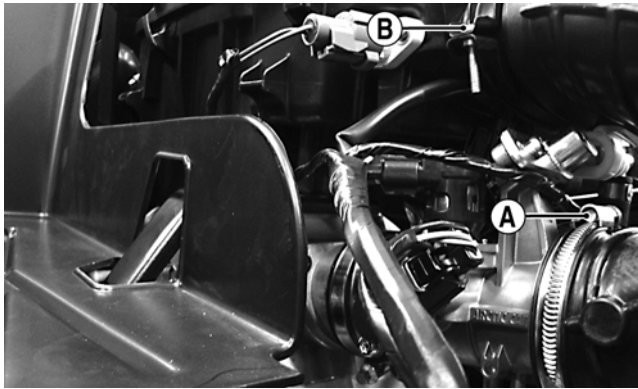


PR527



PR519

8. Loosen the clamp (A) securing the air intake boot to the throttle body and the clamp (B) securing the air filter housing to the inlet housing boot; then remove the crankcase breather hose from the crankcase.



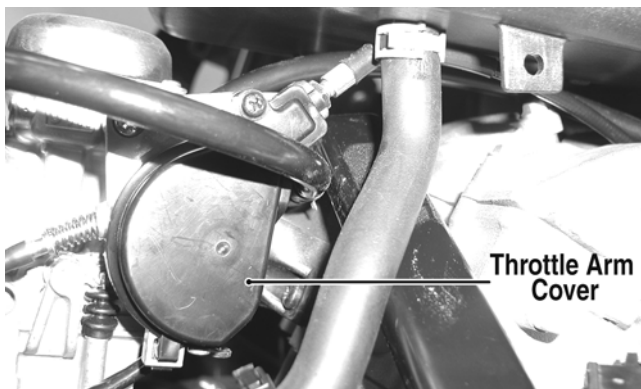
PR578A

9. Remove two self-tapping screws securing the air filter mounting bracket to the frame; then remove the air filter and mounting bracket as an assembly.



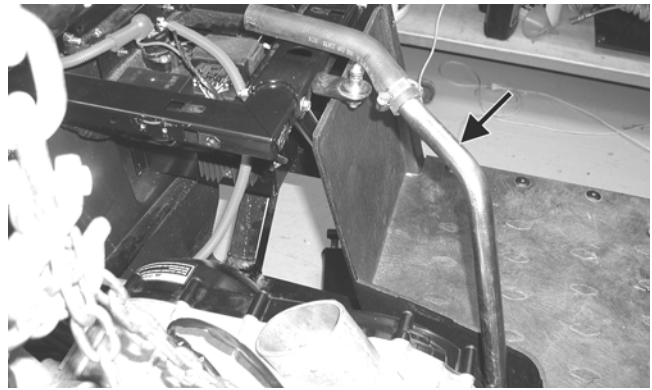
PR140A

10. Remove the throttle arm cover from the throttle body; then disconnect and remove the throttle cable and the throttle body.



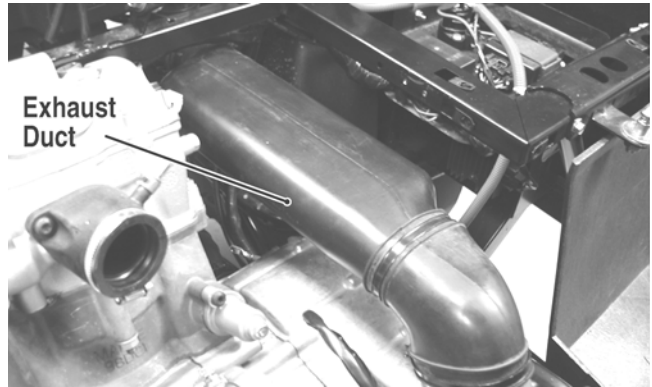
PR154A

11. Remove the coolant hoses from the water pump and thermostat housings; then position the upper coolant line to the left-side of the engine compartment.

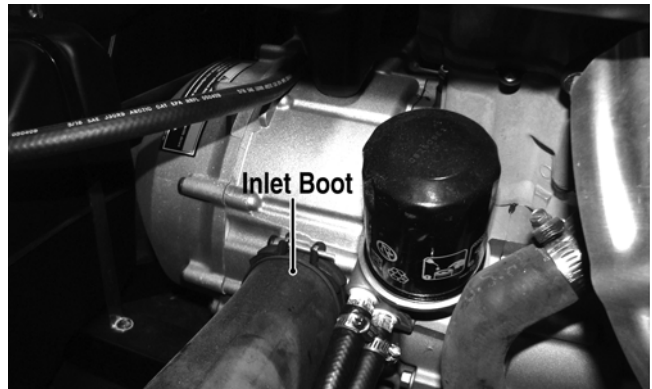


PR150A

12. Remove the exhaust duct from the V-belt housing; then remove the inlet boot connecting the inlet duct to the V-belt housing.



PR144B



HDX140A

13. Remove the muffler; then remove the exhaust pipe.
 14. Set the parking brake; then from the underside of the vehicle, remove the cap screws securing the drive shafts to the drive couplers.

■ **NOTE:** Remove the front driveshaft first or the parking brake will not hold the coupler stationary and cap screw removing will be more difficult.

15. Remove two flange nuts from the underside of the rear engine mounts.