



Supplement Sheet

Date: April 18, 2011

Subject: Service Replacement for the 751-12259 (951-12259) Carburetor Assembly

Models Affected: Engine Model: 4P90M0 (952Z4P90M0)

Read and understand these instructions thoroughly before proceeding.

PURPOSE: The connector on the fuel shut-off solenoid that is a part of the supplied replacement carburetor has been updated from the early production (old) carburetors, see Figure 1. Therefore, the stator existing on the engine (early or late production version) will dictate when to use the supplied adapter. This supplement sheet defines the two carburetor assembly replacement and existing stator scenarios and instructions for the adapter supplied with the new carburetor assembly.

NOTE: These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.

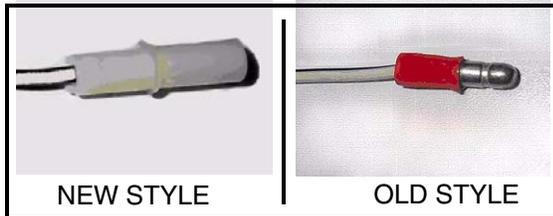
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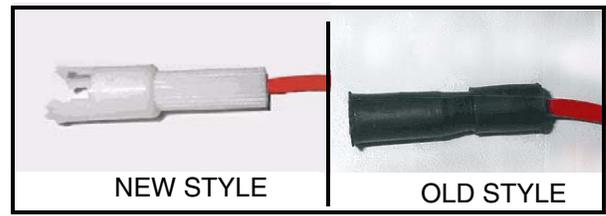
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	951-12259	1	CARBURETOR ASSEMBLY
2	951-12476	1	ADAPTER:CARURETOR
3	951-12263	1	GASKET:INSULATOR:CARBURETOR
4	951-12261	1	GASKET:CARBURETOR
5	951-12258	1	GASKET:MANIFOLD (AIR INTAKE)
6	*	1	THIS INSTRUCTION SHEET

OVERVIEW: There are 2 scenarios that can exist once the new carburetor is installed...

- A. Installing new carburetor with early production (old style) stator
- B. Installing new carburetor with late production (new style) stator



FUEL SHUT-OFF SOLENOID LEAD CONNECTOR



STATOR ASSEMBLY CONNECTOR

FIGURE 1

SCENARIO "A": Install the supplied adapter, 951-12476, between the old stator lead and the new fuel shut-off solenoid lead. See Figure 2. Ensure that both adapter connectors have firmly snapped into their mating connectors.



FIGURE 2

SCENARIO "B": The adapter, 951-12476, is not required, refer to Figure 1. Discard the adapter.

SEE PAGE 3 FOR CARBURETOR ASSEMBLY ACCESS, REMOVAL and INSTALLATION

CARBURETOR ASSEMBLY ACCESS, REMOVAL and INSTALLATION

Pre-service Instructions:

1. Place the unit on a flat and level surface.
2. Turn off engine, remove ignition key and allow engine and muffler to cool to room temperature before proceeding.
3. Disconnect the negative black cable from the negative battery terminal first then the positive red cable from the positive battery terminal.
4. Drain the fuel tank or clamp off the fuel line to the carburetor. Drain the carburetor's fuel by removing the fuel bowl drain plug and gasket, P/N 951-11349. When bowl is drained, replace the fuel bowl drain plug and gasket. See Figure 3. **Torque the drain plug to 7 - 9 Nm (62 - 80 In-Lbs)**

FUEL SHUT-OFF SOLENOID HARNESS ACCESS: (Refer to Figure 4 for Steps 5 through 8)

5. Loosen the two plastic thumb nuts securing the air filter cover. Remove the cover and air filter element.
6. Using a 10mm socket and ratchet, remove the three nuts securing the finger guard and the one nut securing the shroud to the intake manifold. Remove the finger guard.
7. Using a 12mm socket and ratchet, loosen the two shoulder bolts above the valve cover.
8. Remove the engine shroud. Disconnect the spark plug wire from the spark plug and ground spark plug wire to the engine block.

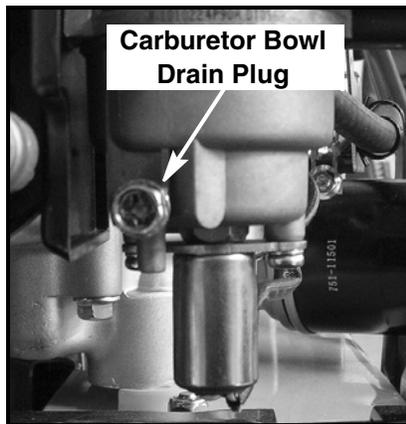


FIGURE 3

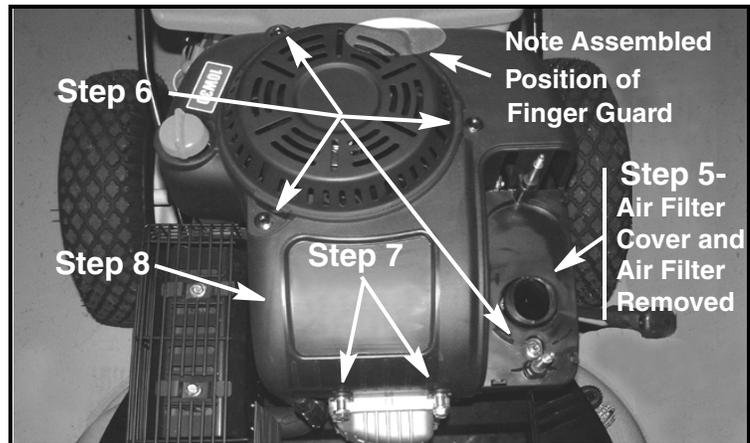


FIGURE 4

CARBURETOR REMOVAL:

IMPORTANT - Before removing the old carburetor make note, for later reassembly, how the fuel shut-off solenoid wire is routed by the shield/carburetor insulator (see Figure 5A), then up over the engine block, restrained by the wire clip (See Figure 5B) and down behind the muffler to the stator's fuel shut-off solenoid wire behind the oil dipstick tube.

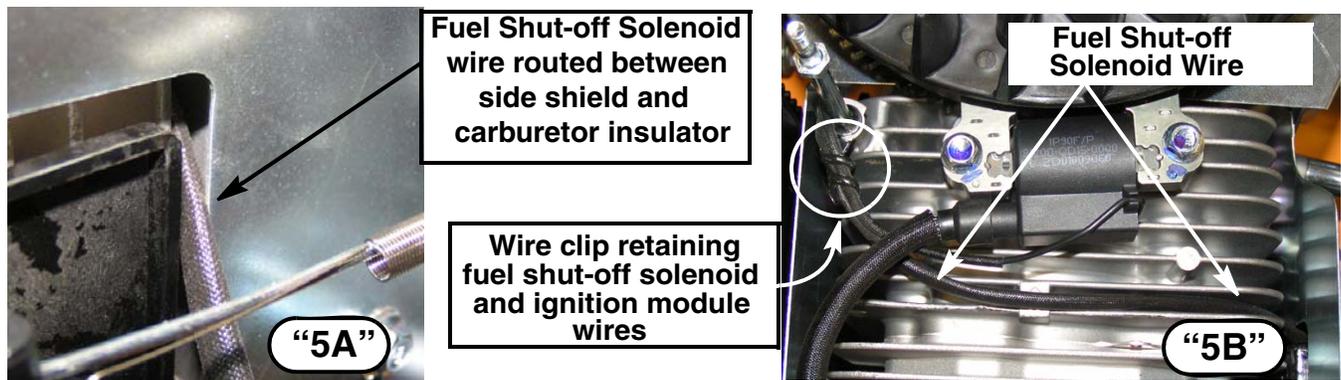


FIGURE 5

9. Open the wire clip located behind the oil dipstick tube and the wire clip located next to the shroud mounting stud near the flywheel fan, see Figures 10 and 5B.

10. Disconnect the fuel shut-off solenoid wire from the stator's fuel shut-off solenoid wire located behind the oil dipstick tube. See Figure 6.

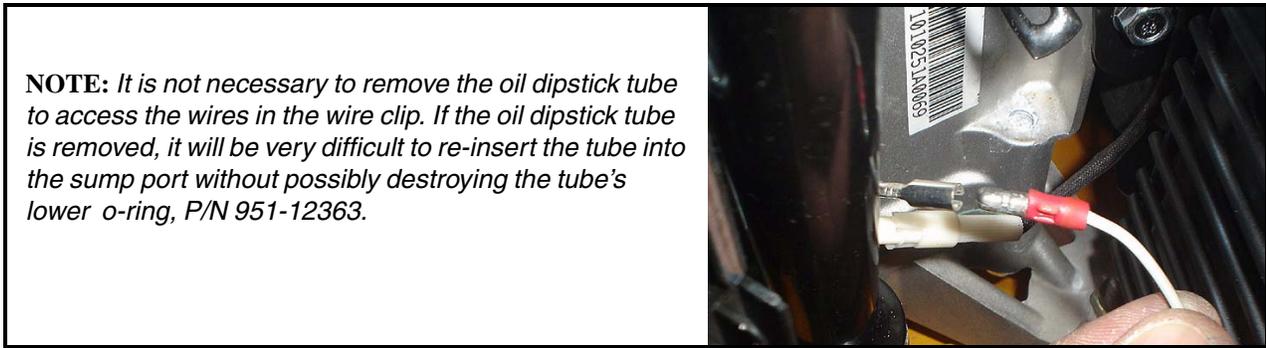


FIGURE 6

11. Carefully remove the fuel shut-off solenoid wire back through its' routing until it is free of the engine. Disconnect the fuel shut-off solenoid's ground wire from the side shield located to the right of the carburetor.

12. On the fuel input hose at the carburetor, using a pair of pliers, slide the spring clamp back from the end of the hose. Remove the fuel line from the carburetor fitting.

13. Using a 10mm socket and ratchet, remove the two nuts securing the plastic air intake assembly and carburetor to the engine block. Slide the air intake assembly and manifold gasket, 951-12258, off of the mounting studs. Discard the manifold gasket.

14. Using a No. 2 phillips screwdriver or 8mm socket and ratchet, remove the forward most screw securing the throttle control bracket guard. This will allow the carburetor to be slid off of the mounting studs sufficiently to permit the choke link to be unhooked from the choke arm. See Figure 7.

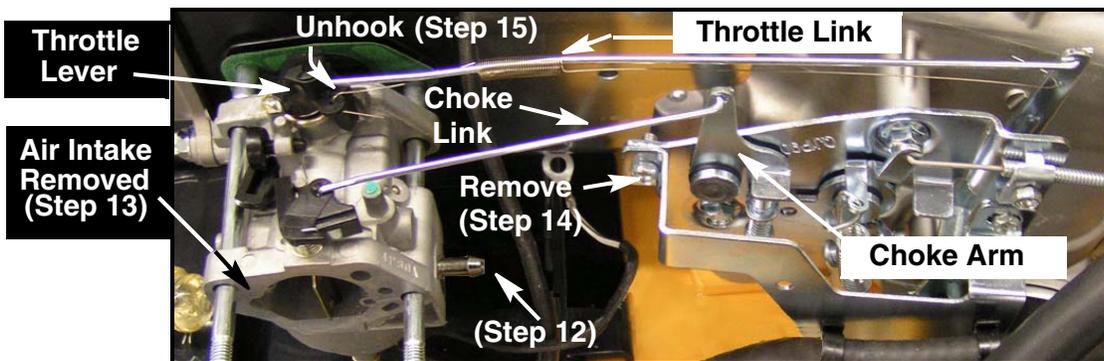


FIGURE 7

15. Unhook the throttle link tension spring from the throttle lever. See Figure 7.

16. Carefully, so as not to bend the links, slide the carburetor off of the mounting studs sufficiently to unhook the choke link from the choke arm. See Figure 8.



FIGURE 8

17. Remove the carburetor just off of the mounting studs and rotate the plastic throttle lever so that the throttle link clears the slot in the throttle lever and remove the throttle link from the throttle lever.

18. Discard the old carburetor (with fuel shut-off solenoid). Discard the gasket that goes between the insulator and cylinder head and the gasket that goes between the carburetor and insulator. Retain the plastic insulator.

CARBURETOR INSTALLATION:

19. Install a new gasket, 951-12263, between the insulator and cylinder head, install the plastic insulator, then a new gasket, 951-12261, between the carburetor and insulator. See Figure 9.

20. Install the new carburetor in the reverse order of removal - Steps 17, 16, 15, 14, 13 and 12.

21. Install a new gasket, 951-12258, between the air intake manifold and the carburetor. Install the air intake manifold onto the mounting studs. See Figure 9.

22. Using a 10mm socket and ratchet, install the two nuts, removed in Step 13, securing the plastic air intake assembly and carburetor to the engine block. **Torque each nut to 7-9 Nm (62-79 In-Lbs)**

23. Ensure that the fuel hose is slid all the way onto the carburetor fuel inlet fitting. Re-install the hose clamp to secure the fuel hose on the carburetor's fuel inlet fitting.

RECONNECTING the FUEL SHUT-OFF SOLENOID:

24. Route the new solenoid wire as shown in Figures 5A, 5B and 10. Connect the fuel shut-off solenoid wire to the stator's fuel shut-off solenoid wire. Depending on whether you have Scenario "A" or "B" (see OVERVIEW and SCENARIO "A" and "B" on page 1), connect the single stator wire to the solenoid wire. See Figure 10.

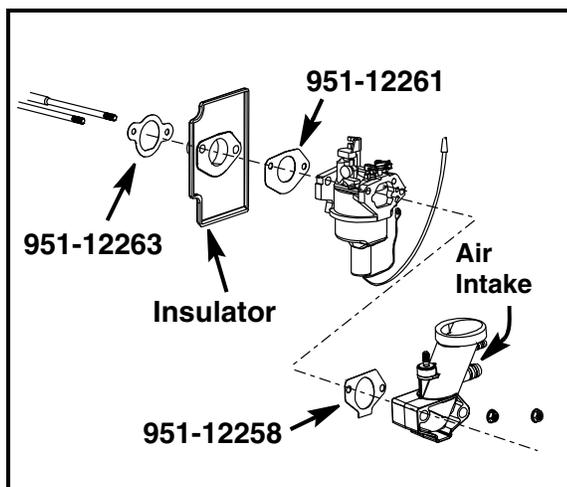


FIGURE 9

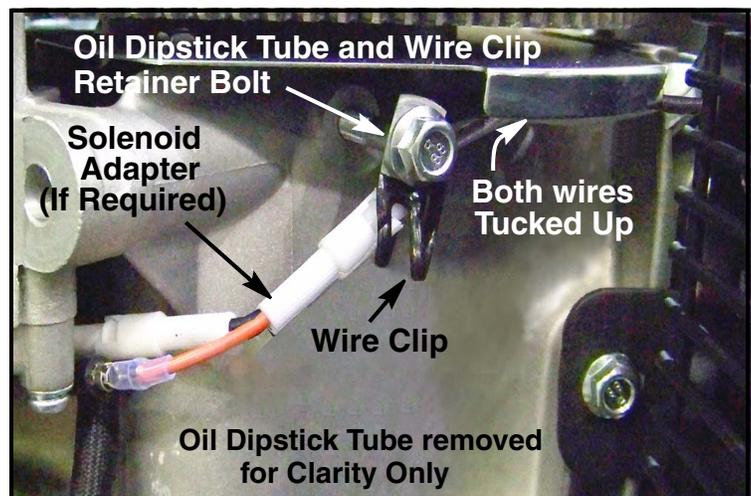


FIGURE 10

NOTE: It is not necessary to remove the oil dipstick tube to access the wires in the wire clip. If the oil dipstick tube is removed, it will be very difficult to re-insert the tube into the sump port without possibly destroying the tube's lower o-ring, P/N 951-12363.

25. Secure the fuel shut-off solenoid's ground wire to the side shield with the screw removed in Step 11. **Torque screw to 6 - 8 Nm (53 - 71 In-Lbs).**

FINAL REASSEMBLY:

26. Reconnect the spark plug wire to the spark plug.

27. Re-install the shroud, finger guard. **Torque all four shroud nuts to 7 - 9 Nm (62 - 80 In-Lbs).** Re-install the air filter element and air filter cover.

28. Ensure the fuel line clamp (if used) is removed.

29. Connect the positive red cable to the positive battery terminal first then connect the negative black cable to the negative battery terminal.

This completes the installation of the carburetor /fuel shut-off solenoid assembly.