

SUPPLEMENT

Original Issue Date: 6/14

Model: 14RESA/RESAL

Market: Residential/Light Commercial

Subject: Supplement to Installation Manual TP-6803 Version 2/14e

Introduction

This supplement explains the updated fuel conversion procedure for Model 14RESA and 14RESAL generator sets. This supplement replaces Figure 1-8 and Section 1.7.1 of Installation Manual TP-6803, version 2/14e, for 14RESA/RESAL generator sets built after June 16, 2014.

The fuel block has been replaced with fuel jet fittings inserted into the hose barb fitting as described in the following instructions.

The multi-fuel system allows conversion from natural gas to LPG (or vice-versa) in the field while maintaining emissions-standard compliance. A trained technician or an authorized distributor/dealer can convert the fuel system.

Rating Change

Converting the fuel will change the generator set rating. See the generator set specification sheet for ratings with natural gas and LPG. Order a new nameplate with the updated rating and fuel information from an authorized distributor/dealer. Provide the following information from the original nameplate:

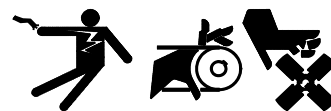
- | | |
|---------------------------|---------|
| • Model Number | • kVA |
| • Spec Number | • Amps |
| • Serial Number | • Volts |
| • Fuel (original and new) | • Hz |
| • kW | |

Read the entire supplement before beginning the fuel conversion procedure. Perform the steps in the order shown.

Safety Precautions

Observe the following safety precautions.

WARNING

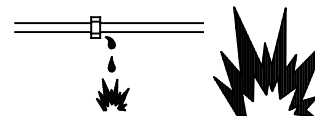


Accidental starting.
Can cause severe injury or death.

Disconnect the battery cables before working on the generator set. Remove the negative (-) lead first when disconnecting the battery. Reconnect the negative (-) lead last when reconnecting the battery.

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or connected equipment, disable the generator set as follows: (1) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

WARNING



Explosive fuel vapors.
Can cause severe injury or death.

Use extreme care when handling, storing, and using fuels.

The fuel system. Explosive fuel vapors can cause severe injury or death. Vaporized fuels are highly explosive. Use extreme care when handling and storing fuels. Store fuels in a well-ventilated area away from spark-producing equipment and out of the reach of children. Never add fuel to the tank while the engine is running because spilled fuel may ignite on contact with hot parts or from sparks. Do not smoke or permit flames or sparks to occur near sources of spilled fuel or fuel vapors. Keep the fuel lines and connections tight and in good condition. Do not replace flexible fuel lines with rigid lines. Use flexible sections to avoid fuel line breakage caused by vibration. Do not operate the generator set in the presence of fuel leaks, fuel accumulation, or sparks. Repair fuel systems before resuming generator set operation.

Explosive fuel vapors can cause severe injury or death. Take additional precautions when using the following fuels:

Propane (LPG)—Adequate ventilation is mandatory. Because propane is heavier than air, install propane gas detectors low in a room. Inspect the detectors per the manufacturer's instructions.

Natural Gas—Adequate ventilation is mandatory. Because natural gas rises, install natural gas detectors high in a room. Inspect the detectors per the manufacturer's instructions.

Gas fuel leaks. Explosive fuel vapors can cause severe injury or death. Fuel leakage can cause an explosion. Check the LPG vapor or natural gas fuel system for leakage by using a soap and water solution with the fuel system test pressurized to 6–8 ounces per square inch (10–14 inches water column). Do not use a soap solution containing either ammonia or chlorine because both prevent bubble formation. A successful test depends on the ability of the solution to bubble.

Fuel Conversion, 14RESA/RESAL

For natural gas and LPG fuel, jet fittings are used in the fuel line. See Figure 1. The natural gas jet fitting is silver in color and stamped NG. The LPG fitting is gold in color and stamped LPG. The fittings are threaded. A straight-blade screwdriver is required to remove and replace the fittings.

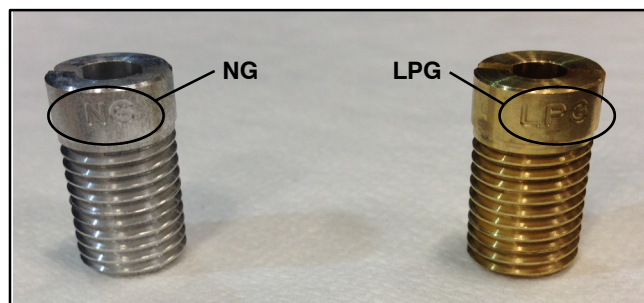


Figure 1 NG and LPG Fuel Jet Fittings

The unit is typically shipped set up for natural gas, with the LPG fitting tied near the fuel solenoid valve. To convert to LPG, remove the NG fitting and install the LPG fitting as described below. See Figure 2 for the fuel system component locations.

Procedure to Convert from NG to LPG

1. Press the OFF button on the generator set controller.
2. Disconnect the utility power to the generator.
3. Disconnect the generator set engine starting battery, negative (–) lead first.
4. Turn off and disconnect the fuel supply.
5. Remove the hose clamp and fuel hose from the hose fitting. See Figure 2.

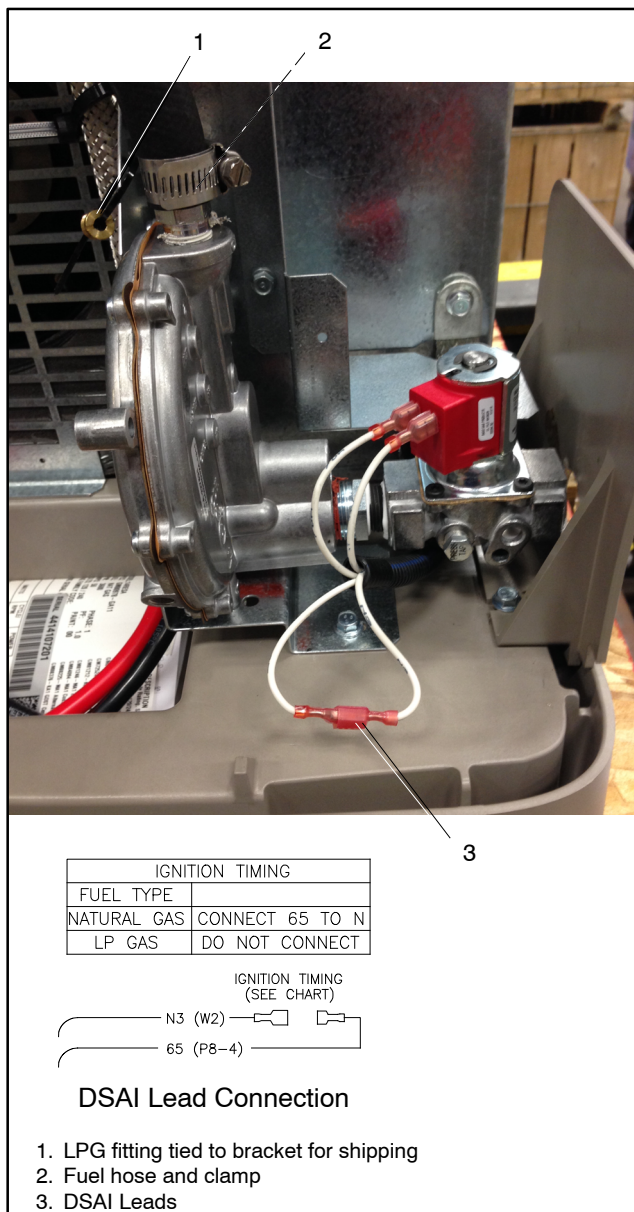


Figure 2 Fuel System, As Shipped

6. Use a straight-blade screwdriver to remove the NG fuel jet from the hose fitting. See Figure 3.
7. Insert the LPG fitting into the hose fitting. Use a straight-blade screwdriver to tighten the fitting until it is snug.
8. Slide the hose onto the hose fitting and secure it with the clamp.
9. Disconnect digital spark-advance ignition (DSAI) leads 65 and N3 for LPG. The DSAI leads are located near the fuel solenoid valve. See Figure 2.
10. Connect and turn on the new fuel supply.
11. Reconnect the generator set engine starting battery leads, negative (-) lead last.
12. Reconnect the utility power to the generator.
13. Start the generator set by pressing the RUN button on the generator set controller.
14. Check for leaks using a gas leak detector.
15. Run the generator set and check the operation.
16. Press the OFF button to shut down the generator set.

Conversion from LPG to Natural Gas

To convert from LPG to natural gas, repeat the steps above, removing the LPG fuel jet and installing the NG fitting. Connect DSAI leads 65 and N3 together for natural gas.

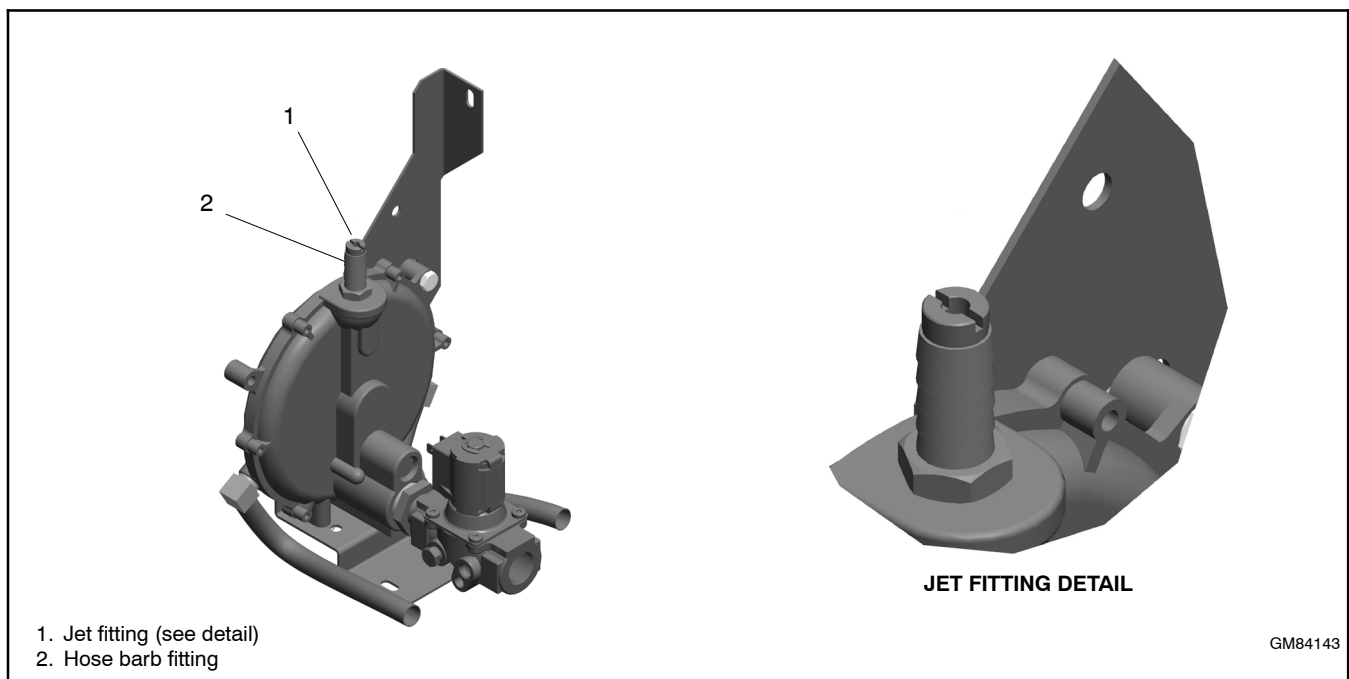


Figure 3 14RESA/RESAL Fuel System Showing Jet Fittings

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