



LP Conversion Kit – 254490 30RZ (Ford Turbo) Generator Set

The LP Conversion Kit converts the 30RZ (Ford Turbo) generator set from Natural Gas to LP fuel. Observe the following safety precautions during kit installation.

WARNING



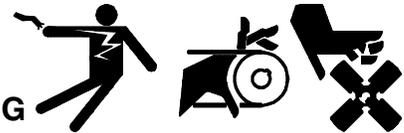
All fuels are highly explosive in a vapor state. Use extreme care when handling, storing, and using fuels

Store fuel 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 since spilled fuel may ignite on contact with hot parts or from ignition spark. Do not smoke or permit flame or spark to occur near potential sources of spilled fuel or fuel vapors. Keep fuel lines and connections tight and in good condition—don't replace flexible fuel lines with rigid lines. Flexible sections are used to avoid breakage due to vibration. Additional precautions must be taken when using the following fuels:

Propane (LP) – Adequate ventilation is mandatory. Propane is heavier than air; install gas detectors low in room. Inspect detectors often.

Natural Gas – Adequate ventilation is mandatory. Natural gas rises; install gas detectors high in room. Inspect detectors often.

WARNING



Accidental starting can cause death or serious personal injury.

Turn Generator Master Switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

CAUTION



Hot parts can cause personal injury.

Do not touch hot engine parts. An engine gets hot while running and exhaust system components get extremely hot.

LP KIT INSTALLATION

1. Disconnect generator starting battery, negative lead first.
2. Remove the engine spark plugs. Install LP spark plugs (258276) and torque to 5–10 ft. lbs. (6.8 – 13.5 Nm).

3. Remove the retaining screw from the underside of the gas regulator. See Figure 1. Remove retainer and spring then reinstall retaining screw. The regulator spring and retainer should be saved for conversion back to natural gas (if necessary).
4. Disconnect fuel inlet and turbo from natural gas mixer. Remove mixer mounting hardware and remove mixer. Install LP gas mixer (A-258495) and secure with original hardware. Reconnect fuel inlet and turbo. Adjust the fuel/air mixture by turning the air screw in until it bottoms lightly then open four full turns. See Figure 2.
5. Reconnect generator starting battery, negative lead last. Start the generator set.
6. Using a timing light or scope, change engine timing to 20° BTDC

(Before-Top-Dead-Center). If using a scope to adjust timing, refer to scope manufacturer's instructions. If using a timing light to time the engine, proceed as follows.

The engine timing marks are located on the crankshaft pulley and can be seen from the left side of the engine (as viewed from generator end). See Figure 3. Loosen distributor retaining bolt. With the engine operating at normal speed, rotate the distributor body clockwise or counterclockwise until proper timing is obtained. Tighten distributor retaining bolt. For further information on the engine timing procedure, reference the engine service manual and the instructions of the timing light manufacturer.



Figure 1. Fuel Regulator Components

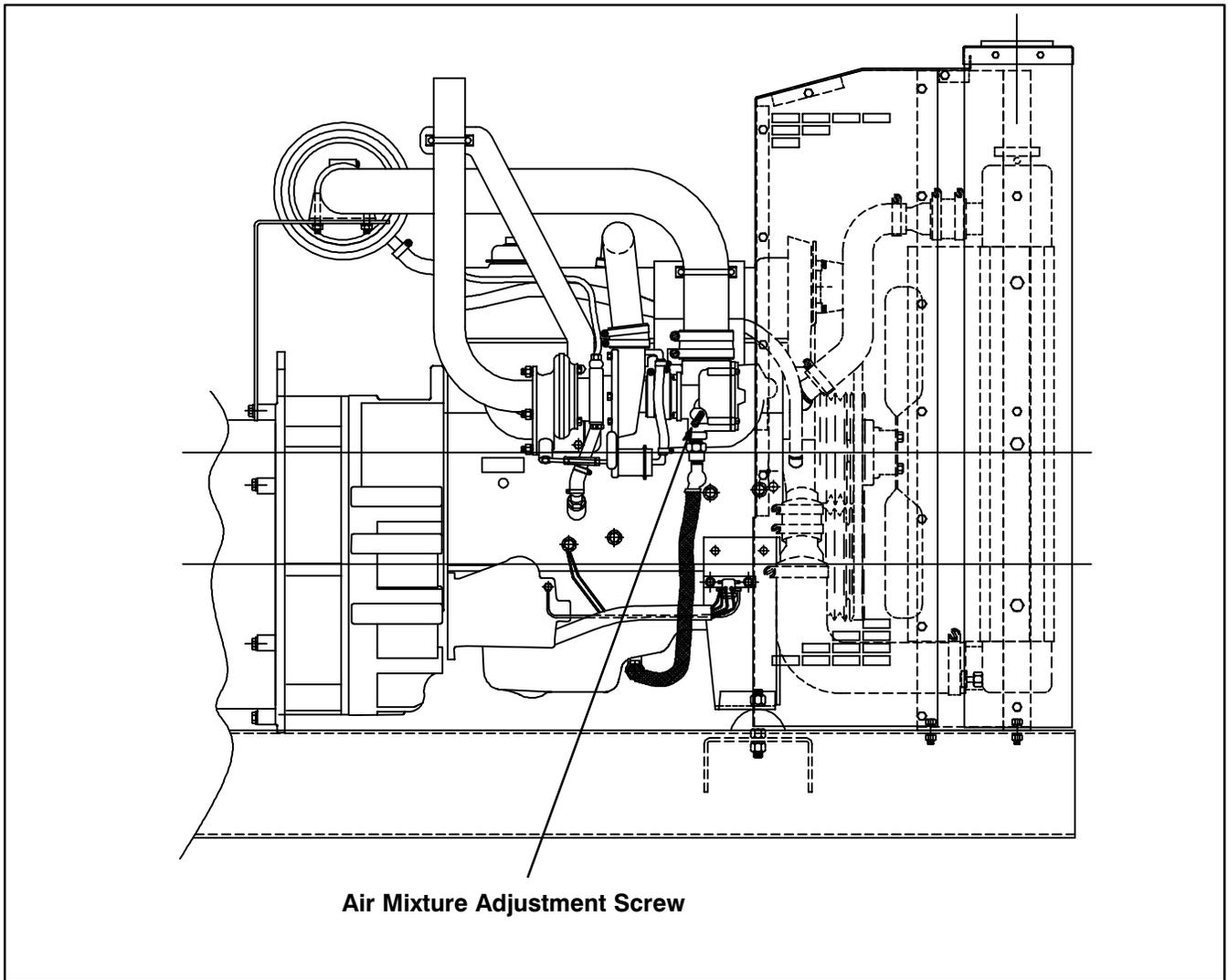


Figure 2. Air Mixture Adjustment

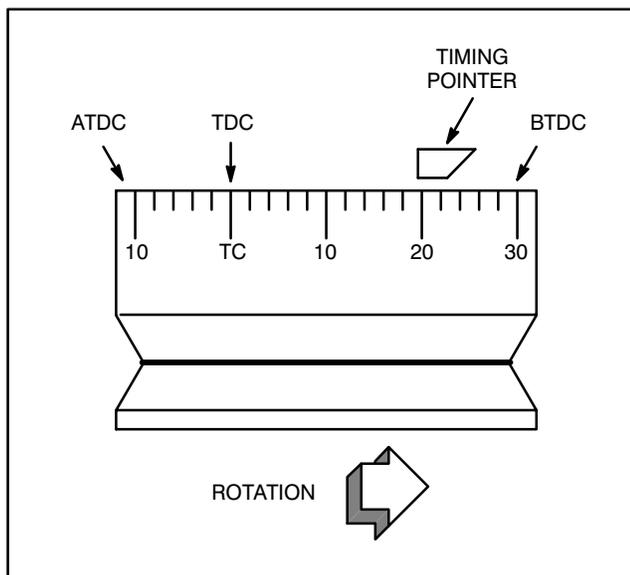


Figure 3. Engine Timing Marks

PARTS LISTING

Description	Qty.	Part No.
LP Gas Mixer	1	A-258495
Spark Plugs	4	258276