

QUICK START GUIDE

This guide is to provide you with the basic information you need to get started with your generator.

For detailed information and safety warnings, consult the Operation and Maintenance Manual.

MANUAL OPERATION

START UP PROCEDURE

1. Visually inspect the generator for leaks, damage, and/or loose connections.
2. Check the engine oil level. Add if necessary.
3. Check coolant level in radiator and overflow bottle. Add if necessary.
4. Check fuel level.
5. Turn off the main circuit breaker.
6. Turn on the master power switch.
7. Press the RUN button to start the generator.
8. Once the generator is warmed up, turn on the main circuit breaker.
9. Continue to monitor the generator set during operation to ensure it is operating correctly.

SHUT DOWN PROCEDURE

1. Turn off all electrical loads.
2. Turn off the main circuit breaker.
3. Press the OFF button to stop the generator.
4. Turn off the master power switch.

BASIC MAINTENANCE

ENGINE OIL MAINTENANCE

Engine oil must be changed after the first 50 hours. After the first 50 hours, the oil and filter need to be changed every 150 hours or at least once a year.

Engine oil must be a high quality, multi-grade oil designed for diesel engines and should meet an API classification of CF or higher.

The proper oil viscosity to be used is based on the ambient temperature during operation.

Above 77°F (25°C)	10W-30 10W-40 15W-40
14° to 77°F (-10°C to 25°C)	10W-30 10W-40 15W-40
Below 14°F (-10°C)	10W-30 10W-40

The generator holds approximately 4 quarts of oil. Proper oil level is determined by checking the dip stick. The oil should be between the ADD & FULL marks.

COOLING SYSTEM MAINTENANCE

Engine coolant must be changed every 3000 hours if equipped with GREEN coolant or 8000 hours if equipped with ORANGE and at least every 2 years.

NOTICE: DO NOT mix coolant types or colors or damage to the engine may result.

The generator requires a 50/50 mix of a high quality ethylene glycol type of coolant.

The generator holds approximately 6.5 quarts of coolant.

When cool, the coolant level in the radiator should be just below the fill neck and the overflow jug should be half full.

⚠ WARNING: Never open the radiator cap when the engine is hot. This can result in severe injury.

FUEL SYSTEM MAINTENANCE

The fuel filter on the generator must be changed every 500 hours or at least once per year.

It is recommended to run a clean, high quality diesel fuel with a minimum cetane rating of 50 in the generator set.

NOTICE: Always use diesel fuel. **DO NOT** use alternative fuels, such as biodiesel or kerosene or damage to the engine may result.

INTAKE SYSTEM MAINTENANCE

The air filter element should be replaced every 500 hours, when the air filter warning comes on, or at least once per year.

STORAGE

STORING THE GENERATOR

Before storing the engine for more than a few months, perform the following procedure:

1. Clean all dirt and debris from inside the generator enclosure.
2. Drain the coolant and leave the drain plug open.
3. Change oil and run generator for 5 minutes to coat internal parts.
4. After the engine has cooled, plug the intake of the air filter housing and the exhaust outlet of the generator to prevent rodents or insects from building nests.
5. Disconnect the battery.

During storage, the generator should be run at operating temperature for 15 minutes every 2-3 months to prevent corrosion.

RESTORING THE GENERATOR

To restore the generator to service after storage, follow this procedure:

1. Remove the plug from the intake of the air filter housing and the exhaust outlet of the generator.
2. Inspect the generator for nests and damage caused by rodents and insects.
3. Close the drain plug and refill the coolant.
4. Change the oil and filter.

5. Change the fuel filter.

6. Reconnect the battery.

After storage, the generator should be run with no load for 10-15 minutes.