

Portable Power Service News | ENGINE

EBG Engines – Flushing Procedure

1. Preparing for rust removal

1.1 Flushing materials

- (1) Rust removal solution (FMC1, Available in Market)
- (2) Flushing Tank, Pump, Heating Unit 50°C
- (3) Roll Type Filter 30 μ m, 5 μ m
- (4) Fuel Tank, Fuel Hose
- (5) Antirust solution

1.2 Pre-work

- (1) Cooling system masking
- (2) Thermostat Dummy (50% Open)

2. Corrosion Removal operation

2.1 The engine is running in no-load idle state.

2.2 The rust removal solution is circulated inside the engine.

2.3 Check the condition of the filter and the inside of the solution tank from time to time and observe the degree of foreign matter collection.

- The primary filter (30 μ m) is replaced every hour.
- Replace the secondary filter (5 μ m) in units of one day.

3. Complete

- (1) Air Blowing with air gun for more than 5 minutes to remove remainder of contaminates on the engine .
- (2) Remove connection hose, etc.

4. Inspection

4.1 Remove Thermostat-housing to check rust removal level.

4.2 Refer to the sample below for rust removal levels.

※ Sample

< Continue to rust removal >



Approximately 80% of the cleaning agent was removed, if a large amount of cleaning agent remains

⇒ **Additional Rust Removal Required.**



Approximately 90% of the cleaning substance was removed, but a small amount of cleaning substance remains
 ⇒ **Additional Rust Removal Required.**

< Complete the rust removal >



The inside of the chamber is clean and about 99% of the corrosion/impurities was removed.
 ⇒ **Rust removal work is completed.**

5. Criteria for rust removal solution

- (1) The rust removal solution product and concentration standards
 - Product : Radiator cleaner (FMC1, Available in Market)
 - Volume mixing ratio : 0.3 % (Rust removal solution) : 99.7% (Clean water)

6. Rust prevention work

- If necessary, conduct rust prevention work.
- Product : RUST VETO 4221 (Water-soluble antirust solution)
- Volume mixing ratio : 20% (Antitrust) : 80% (Water)
- Filter : (1) Filter specifications are based on 100 μm
- (2) Filter is replaced with new filter once a week.