

The **WM International** generator series **WG-M-DDME-05** is based on the YANMAR YDG5500EV-6EI Diesel Powered Generators. WM International series incorporates a fuel module to operate the base unit with DME fuel or Diesel fuel. The units can operate as Dual Fuel by selecting the DME or Diesel fuel of choice.

The **WG-M-DDME-05** can adjust fuel selection and its engine speed while in operation by a remote control.

### Servicing

Refer to the Service Manual "DIESEL – DME FUELED GENERATOR SERVICE MANUAL". The manual is written for experienced professionals and may not contain the necessary detail or safety statements for non-professionals to perform the service or repair work properly and or safely. User should contact WM International Engineering or an authorized repair or service professional authorized by WM International Engineering before working on this DME fueled generator.

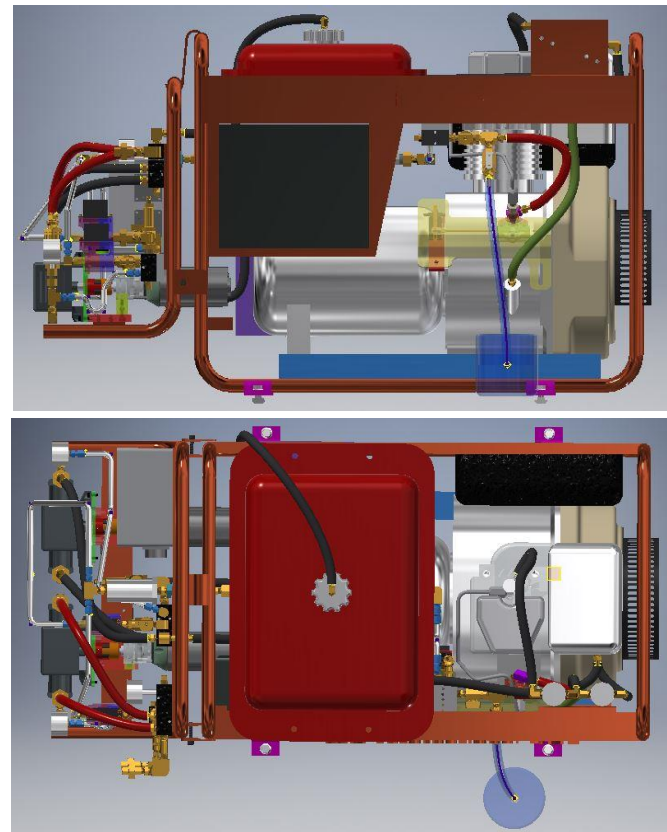


Figure 1 Diesel-DME Fueled Generator

### PREPARING FOR OPERATION

Always open valves slowly for safety, and check for leaks. Examine each hose, pipe and connection for leaking before operating the system. Verify the power source provides adequate voltage at the system (within 10% of the rated power). Always operate the system in a well ventilate area.

Familiarize yourself with the **Figures** shown here.

### CONNECTING TO DME FUEL TANK

1. Confirm the DCV is closed **(A)**
2. Confirm the SIV is closed **(B)**
3. Connect RETURN LINE to the FUEL SYSTEM RETURN fast connector **(C)**
4. Connect FEED LINE to the FUEL SYSTEM FEED fast connector **(D)**
5. Open the DME RETURN SOV **(E)**
6. Open the DME SUPPLY SOV **(F)**
7. Open fuel TANK SUPPLY and RETURN ports **(G and H)**
8. Diesel supply and return come connected.
9. Connect the output of the DCV to an overflow tank **(A)**.

*It is recommended to use a one GAL container half-full of water.*

*First time start-up, the DVC may be left slightly cracked open during cranking to remove air from the lines.*

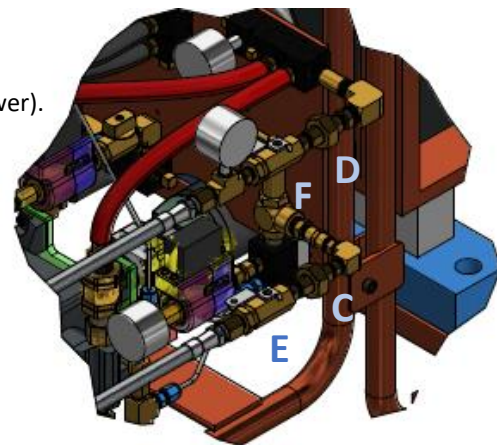


Figure 3 SOV

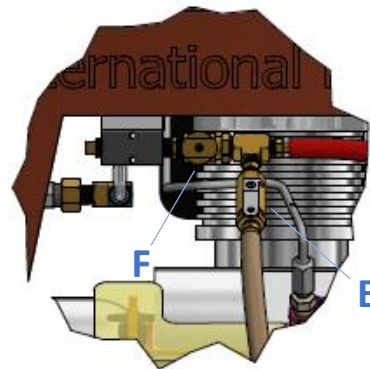


Figure 4 SIV and DCV

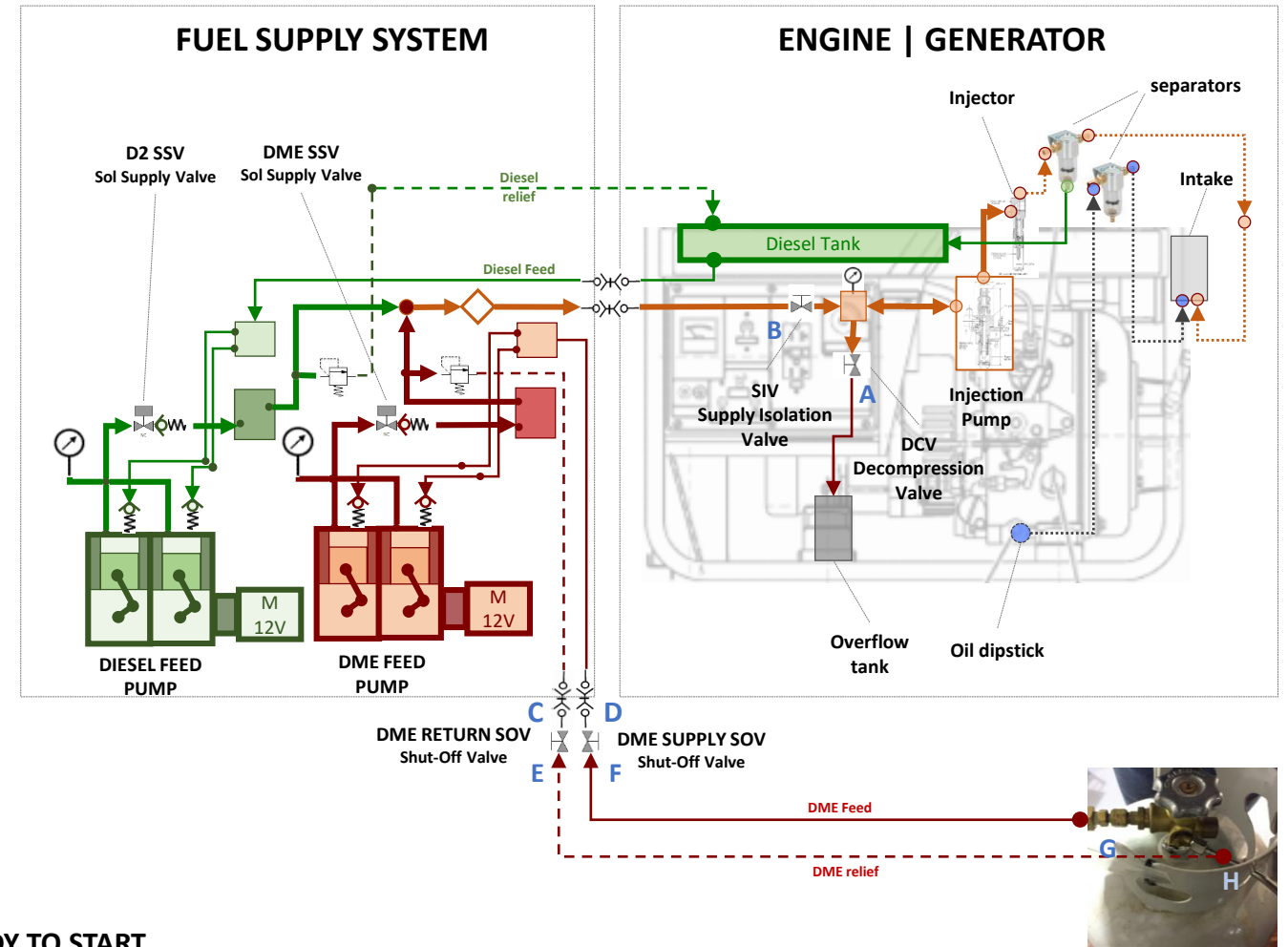


Figure 2 Key Components

### READY TO START

1. Confirm the DCV is closed **(A)**
2. Open the SIV **(B)**
3. Confirm there are NO LEAKAGES
4. Confirm REMOTE SWITCH is on OFF **(I)**
5. Select FUEL on remote **(J)**
6. Adjust RPM SP to ~2000rpm **(K)**
7. KEY ON engine switch **(L)**
8. Select RUN **(I)**  
Fuel delivery pump will activate  
RED LED indicates pressure is being built: CRANKING DISABLED  
GREEN LED indicated pressure target is attained: CRANKING ALLOWED
9. KEY TO CRANK **(L)**

### RUNNING

User has control over RPM and Fuel select switch at all times

### SHUTDOWN

1. Select the OFF position on the control **(L)**
2. CLOSE the SIV **(B)**  
*This prevents DME from entering the engine crankcase through the injection pump*



Figure 5 KEY IN and START



Figure 6 Remote

### GOOD PRACTICES

If the engine is used only occasionally, the engine may be started with Diesel before switching to DME. It is recommended the engine be switched from DME to DIESEL and allowing it to run for 5 min before shutting. *This practice 'flushes out' any pressurized DME from the lines. Any inadvertent opening of the DCV valve or loosening of a line will results in Liquid DME being vented as gas for extended period of time.*

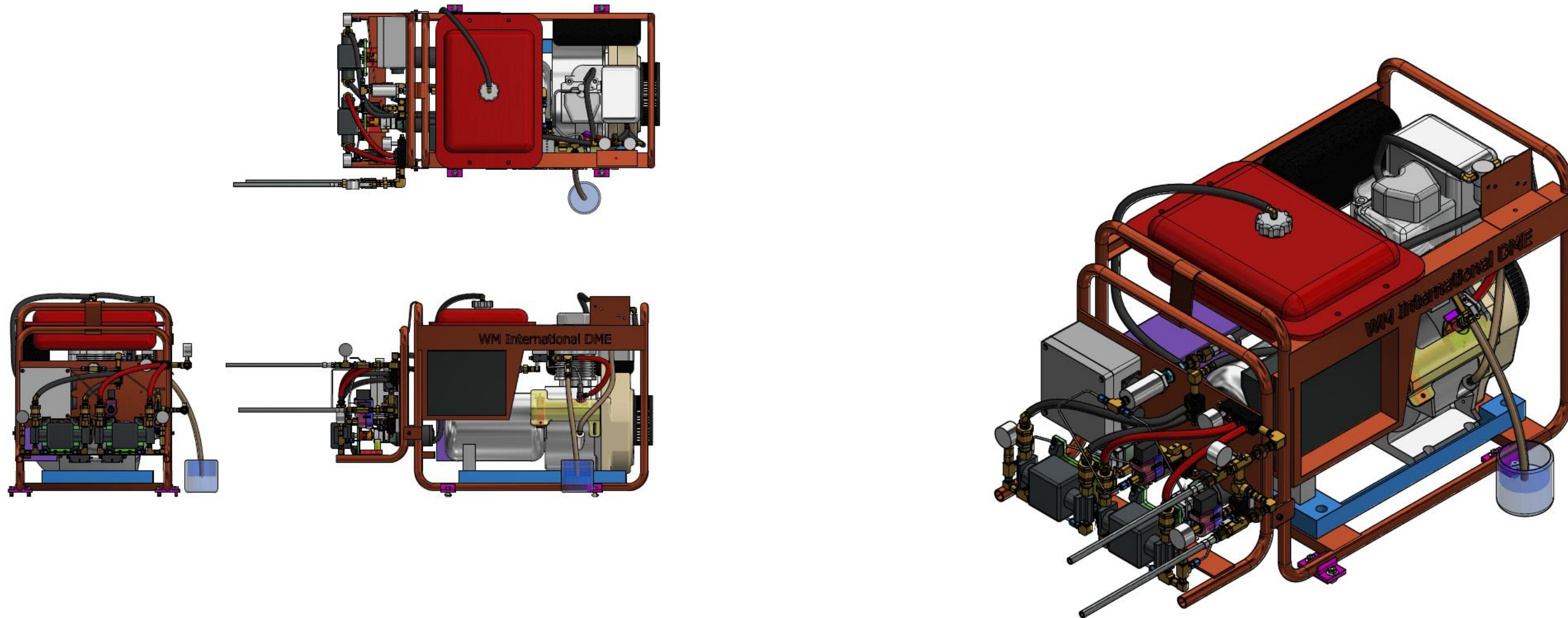


**IN THE EVENT OF ANY FUEL LEAKAGE**  
Turn the REMOTE TO OFF and then KEY OFF  
Close the SIV  
Close DME RETURN and SUPPLY SOVs  
Proceed to shut off supply tanks valves



DIESEL – DME FUELED  
GENERATOR

WG-M-DDME-05



Disclaimer  
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