

Troubleshooting Procedure

Checking Gas Manifold Pressure



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Applicable Models:

508 (11,12,21,22)1145

508 (11,12,21,22)1195

Description:

Step by step instructions on how to check the Max and Min gas manifold pressure

Approx. 15 – 30 minutes

Check the Gas Manifold Pressure Instructions

Remove Front Panel:

- a. Loosen five screws
- b. Remove the front panel



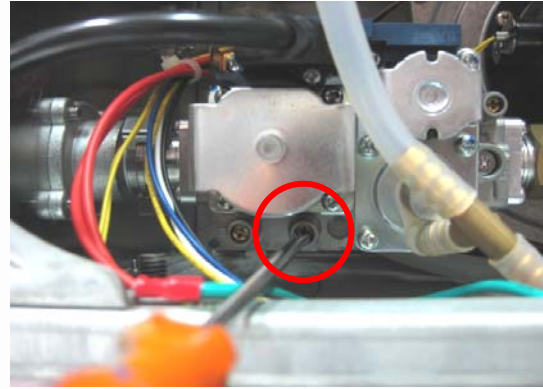
We recommend **UEI EM-151** for the manometer



Connecting the Manometer

Locate the Gas Valve on the bottom left hand corner of the unit:

- Remove the screw of Manifold Pressure test port by Slotted Head screwdriver
- Connect manometer to this test port; make sure to zero the manometer first
- Always check Max fire first, then Min fire in this order



Max Fire Manifold Pressure Adjustment

- Set unit at 130F or higher and open taps to achieve at least 7GPM to force unit into high fire
- Wait at least 10 seconds for modulation to stabilize and take reading at manometer
- Adjust Max Fire Manifold Pressure if necessary to comply with specs



Min Fire Manifold Setup

- Throttle flow down to no more than 2GPM
- Push Dipswitch #7 on Group 3 up to ON
- Wait at least 10 seconds for modulation to stabilize and take reading at manometer



Accessing Min Fire Adjustment Screw:

Use Star Head Screwdriver to loosen the screw of Min Manifold Pressure port



Adjusting Min Fire Manifold Pressure

- a. Adjust Min Fire Manifold Pressure by Star Head Screwdriver to spec
- b. Turn Dipswitch #7 on Group 3 down to OFF position to restore the unit's normal functions
- c. Reinstall front panel



Combustion Specs:

Min Fire Manifold Pressure

GU145(S) / GU195 (S,M) – 0.1" WC min

Max Fire Manifold Pressure

GU145(S) – 1.7"WC / GU195(S,M) – 3.2"WC

Supply Pressure:

NG 3.5" – 10.5"WC / LP 8.0" – 14.0"WC

*WC = Water Column, a unit of measurement that represents pressure

Note:

Upon completing the manifold pressure adjustment, run tests to confirm unit's delivery of hot water by running a low flow tap at between 0.5 to 1gpm. After monitoring the unit for 3-5 minutes on low, open more faucets to trigger high fire (7gpm+) to confirm hot water delivery. The adjustment procedure is successful should the unit function normally.

Consumer Notice: The information and instruction in this bulletin are intended for use by skilled professionals. These instructions should not be performed by consumers. Call your professional person for help.