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**Availability:** ISIS, Bus ISIS, IsSIR

**Revision:** 4

**Major System:** COOLING

**Created:** 12/5/2012

**Current Language:** English

**Last Modified:** 1/16/2019

**Other Languages:** NONE

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**Viewed:** 680

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**Title:** IC Bus, Fuel Fired Engine Coolant Heaters

**Applies To:** AE, BE, CE, and RE Bus Models

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

- 1/16/19 - Added 17k Webasto (49W XD) to optional codes
- 07/17/18 - Update diag link
- 11/4/15 - Author updated for Feedback purposes
- 10/12/15 - Initial Article Release

### DESCRIPTION

Optional fuel fired engine coolant heaters may require the fuel system to be primed prior to use.

#### Option Codes:

- 49BRM**  
HEATER, ENGINE COOLANT Fuel Fired, Espar, 17,000 BTU, Mounted Forward of Rear Wheel Pocket, with Exhaust Exit Out left side, AFT of Wheel Pocket
- 49WNS**  
HEATER, ENGINE COOLANT Fuel Fired, Espar, 17,000 BTU, With Exhaust Exit Ahead of Rear Axle
- 49EAS**  
HEATER, ENGINE COOLANT Fuel Fired, Espar, 42,000 BTU, with Exhaust Exit Ahead of Rear Axle
- 49GDM**  
HEATER, ENGINE COOLANT Fuel Fired, Webasto Scholastic, 45,000 BTU, With Exhaust Exit Under Rear Bumper
- 49GWX**  
HEATER, ENGINE COOLANT Fuel Fired, Webasto Scholastic, 45,000 BTU, With Exhaust Exit Out Left Side
- 49MRB**  
HEATER, ENGINE COOLANT Fuel Fired, Espar, 42,000 BTU, with Exhaust Exit Under Bumper, Mounted Aft of Rear Axle, Left Side
- 49WXD**  
HEATER, ENGINE COOLANT Fuel Fired, Webasto, 17,000 BTU, with Exhaust Exit Ahead of Rear Axle

The coolant heater fuel filter is filled during the manufacturing assembly process which allows sufficient fuel to test fire the unit. The test fire, or operation validation process, will result in air in the fuel system as the fuel tank fuel level will be below the pickup tube level.

### SYMPTOMS

- Unit will not start and run when received from the manufacturing.
- Repeated failed start attempts resulted in system shut down requiring system to be reset (Espar).

### RESOLUTION

- Prior to validating fuel fired heater operation, remove fuel filter housing and fill with clean fuel.
- Ensure fuel tank is filled to above 1/4 of a tank.
- Reset system and timer as required by the manufacturer.
- Follow engine coolant heater manufacturer instructions to fire system.
- Once running, run unit for a minimum of 30-40 minutes to purge all air from the fuel system.

**DIAGNOSTICS**

- Depending on age of your bus, some units have different diagnostic ports and locations of those ports for troubleshooting. It is best to consult the link below for the specific vendor to determine which you have.
- Some newer models may have simple USB connections, similar to the one shown below for newer Webasto timers.

**SmarTemp Control fx 2.0 (optional):**  
Part Number 5010633C



- Programmable runtimes
- USB diagnostics
- Ergonomical design
- Large backlit LCD screen

**NOTE:**

Priming the fuel system would be considered part of the dealer pre-delivery process and would not be covered under standard warranty coverage.

**ADDITIONAL RESOURCES**

**Espar:**

[Espar Diag.](#)

**Webasto:**

[Webasto Installation/Operation Instructions](#)

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