

TROUBLESHOOTING REFRIGERATOR TRANSIT FLAME OUTAGE PROBLEMS AS RELATED TO TRUCK CAMPER INSTALLATION

INTRODUCTION

The purpose of this Bulletin is to aid service personnel in proper diagnosis of the refrigerator and its installation as it pertains to Flame Outage problems of truck camper-type installations while in transit. The following items should be checked and verified before installing Flame Baffle Kit (#3107037.008).

AMES/AES MODEL REFRIGERATORS

- Confirm proper operation of the refrigerator's control operating system. If abnormal or improper operation is observed, refer to Dometic's Service Bulletins: R70/4B & R75/6A for proper analysis of these model's control system.
- Inspect the burner area of the refrigerator for the following:
 - a. Gain access to the burner area of the unit. Inspect burner for contaminants or debris. Clean and remove with air accordingly.
 - b. Review spark electrode and thermocouple positioning. The spark electrode ignition tip should be located over the third burner slot with a 3/16" spark gap. The thermocouple sensing tip should be positioned parallel and between the second and third burner slots. Adjust if required.
 - c. Ensure all burner covers and inner shields are present and installed properly. These items may have been lost during previous servicing. Inspect for any gaps in these covers. If air gaps are found to be present, close off with metalized foil tape or equivalent. Do not use cloth or paper type tapes.
 - d. Verify gas pressure at the refrigerator pressure tap fitting. Pressure must be 11.0" water column (w.c.) with the unit operating on maximum cold thermostat setting.

MANUAL CONTROL REFRIGERATORS

- Conduct burner inspection items (a-d) above.
- On manual control refrigerators, the gas pressure is lowered to 3"-5" of water column (w.c.) pressure when the thermostat is satisfied. During transit operation, it is recommended that the thermostat be set to a colder position. This will help ensure a "full" or "high fire" flame condition while in transit.

COACH INSTALLATION REVIEW

- Inspect the seal between the frame of the refrigerator and the cabinet in the coach. Special attention needs to be given to the bottom trim/seal area of the refrigerator. If a continuous seal is not present between the refrigerator and cabinet, use caulk, silicon, or equivalent to provide an airtight seal.
- Inspect the roof section of coach in regard to the vent outlet of the refrigerator. If items such as other roof vents, storage pods, etc., are located within 6" of the refrigerator vent, air deflector baffles may be required to break up a draft condition through the refrigerator vent zone while in transit.

IMPORTANT NOTE

IF NONE OF THE ABOVE CONDITIONS ARE FOUND TO BE PRESENT, OR CAUSE OF THE FLAMEOUT CONDITION, INSTALL THE FLAME BAFFLE KIT (#3107037.008) AS INDICATED IN THE INSTALLATION INSTRUCTIONS OF THIS KIT.

(KIT FOR PLASTIC VENT DOORS ONLY)

IF NONE OF THE ABOVE ITEMS CORRECT THE FLAME OUTAGE SITUATION, CONTACT DOMETIC TECHNICAL SERVICE AT 1-800-216-5115.