

# NEWMAR CORPORATION WARRANTY DEPARTMENT

TECHNICAL SERVICE BULLETIN						
DATE ISSUED	MODEL YEAR(S) AFFECTED	MODEL(S) AFFECTED	TSB #			
7/24/87	ALL	ALL	6			
BRAND		TYPE				
All <input type="checkbox"/>	American Star <input type="checkbox"/>	Kountry Star <input type="checkbox"/>	Dutch Star <input type="checkbox"/>	All <input checked="" type="checkbox"/>	T T <input type="checkbox"/>	F W <input type="checkbox"/>
NewAire <input type="checkbox"/>	Mountain Aire <input type="checkbox"/>	Kountry Aire <input checked="" type="checkbox"/>	London Aire <input checked="" type="checkbox"/>	C A <input type="checkbox"/>	D P <input type="checkbox"/>	D B <input type="checkbox"/>
<input type="checkbox"/> Air Conditioning & Heating				<input type="checkbox"/> Electrical Components		
<input checked="" type="checkbox"/> Appliances & Accessories				<input type="checkbox"/> Exterior Components		
<input type="checkbox"/> Cabinets & Furniture				<input type="checkbox"/> Interior Components		
<input type="checkbox"/> Chassis Components				<input type="checkbox"/> Plumbing & Bath Components		
<input type="checkbox"/> Construction Components				<input type="checkbox"/> Windows, Awnings, Vents, & Doors		
DESCRIPTION OF PROBLEM						
Circuit boards.						
RECOMMENDED SOLUTION						
See attachment from Dometic regarding replacing circuit boards.						

If you have any questions regarding this T.S.B., please contact a Warranty Service Representative at Newmar Corporation.

# NEWMAR CORPORATION

## WARRANTY DEPARTMENT

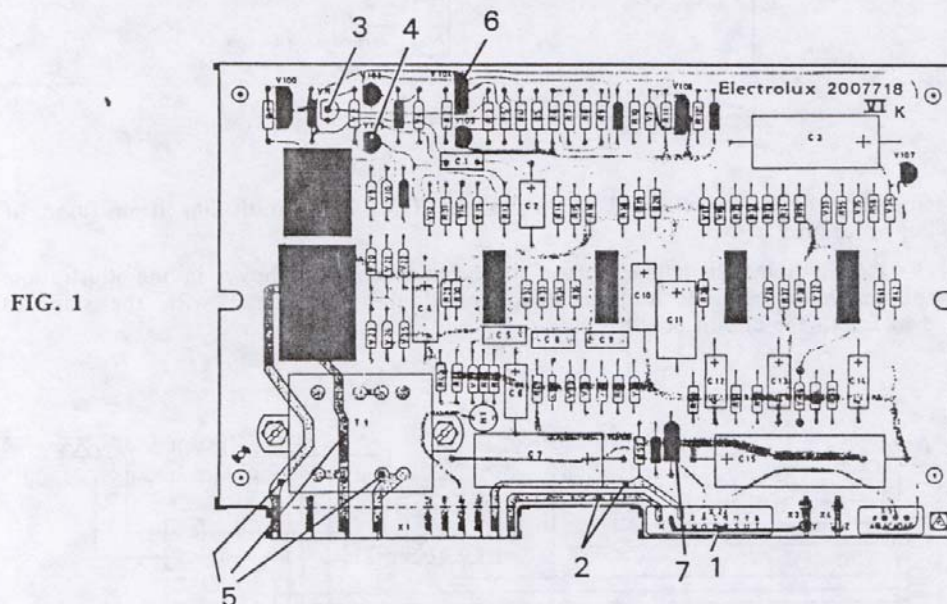


### REPLACEMENT OF CIRCUIT BOARDS

Models: RM 663 RM 763 RM 1303

When replacing the circuit board in the 663, 763 and 1303, you MUST, upon inspection of the board, install the 12 Volt DC fuse provided. See Item #2, Page 2.

1. When working on an AES style refrigerator and replacing the circuit board, the old board should be visually inspected for any obvious damage, i.e. burnt components, damaged leads, burnt connectors, corrosion, etc.
  - a. When the board is damaged, see the following illustrations for what to check and correct before changing the circuit board:



■ The following paragraph numbers relate to the same indicator numbers at the circuit board designations.

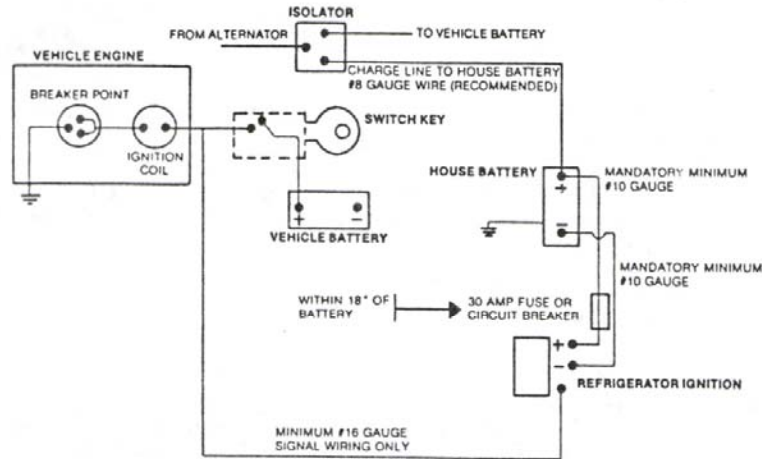
1. If this lead is damaged: Look for a short circuit or damage in the interior light cable.
2. If this lead is damaged: Look for a short circuit or damage in the ribbon cable to the main switch and thermostat.
3. If this component is discolored, burned or blown: Check all cables in the 12 volt system for short circuits.
4. If this component is discolored, burned or blown: Check that the 12 volt connections are correct and that there is a battery between alternator and refrigerator.
5. If this lead(s) is damaged: Check for proper resistance in Ohm's of the A/C heating element and all 120 volt cables for short circuit or damage.
6. If this component is discolored, burned or blown: Check for proper polarity of gas solenoid lead.
7. If this component is discolored, burned or blown: Check for proper plug connections of gas solenoid and thermostat on circuit board. Check for short circuit or damage in ribbon cable to indicator light, thermostat.

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# NEWMAR CORPORATION WARRANTY DEPARTMENT

- b. Verify that the positive (+) 12V. DC wire going to the circuit board is connected directly to the coach battery positive (+) terminal.

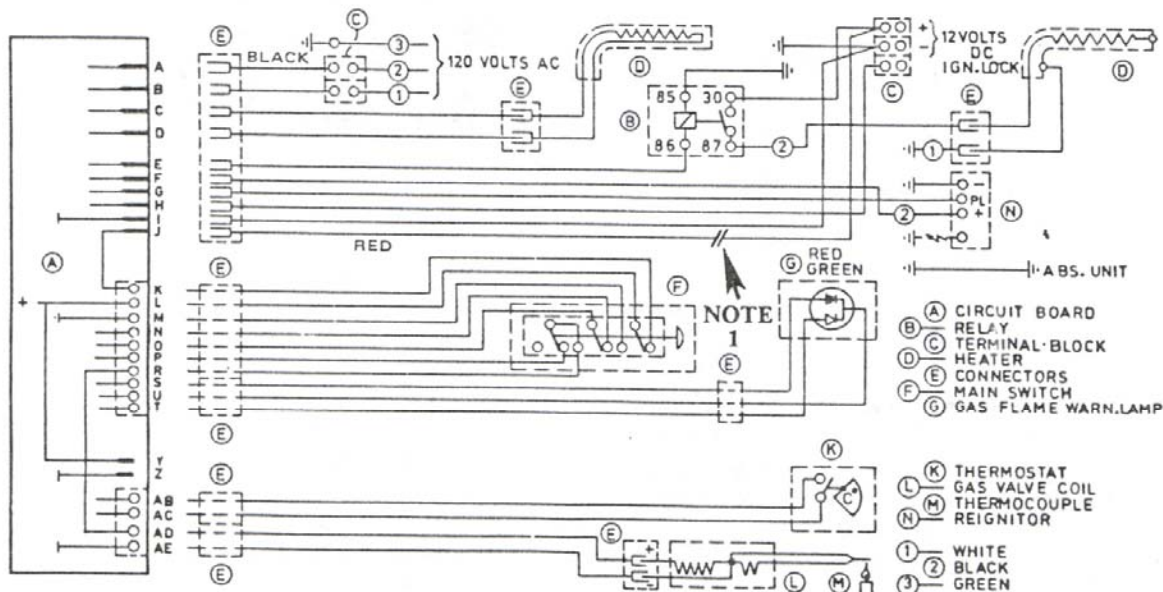
FIG. 2



2. The electrical system should also be checked to assure the 12V. DC circuit has been fused; if not, see the following procedure:

Install the 12V. DC in-line fuse holder before the circuit board as shown in the illustration. One-quarter of an hour labor is authorized to install the fuse along with the standard time approved to install the circuit board.

FIG. 3



**NOTE:**

- (1) Install the 3.5 Amp fuse here for the 12V. DC line protection.

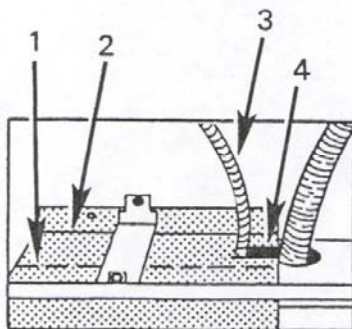
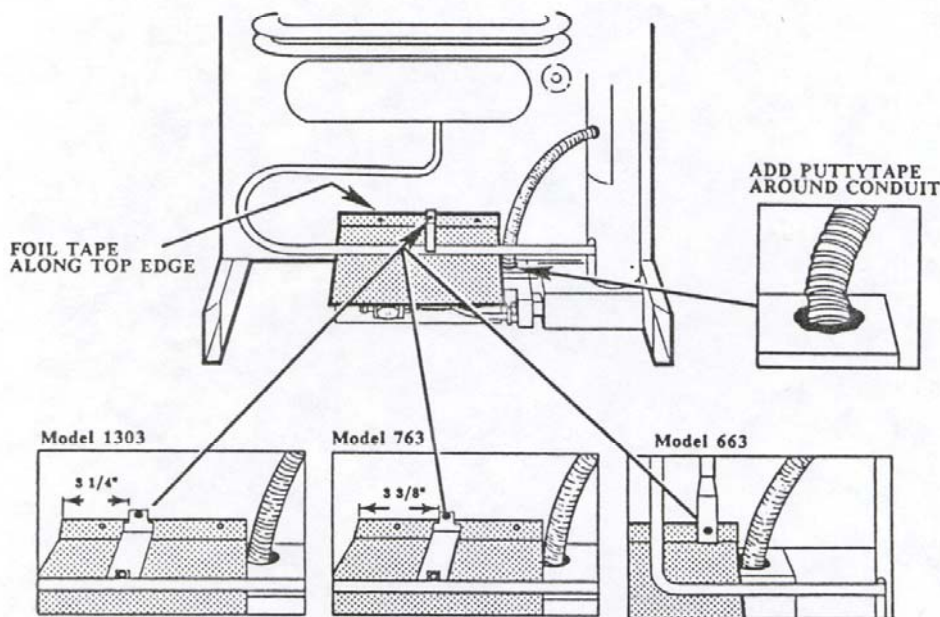




# NEWMAR CORPORATION

## WARRANTY DEPARTMENT

3. Lastly, the moisture shield kit has been enclosed and can be installed to prevent corrosion damage caused by water or car wash solution being sprayed into the back of the refrigerator through the vent louvers. The circuit board compartment should be sealed in the following manner:
- Install the shield under the bottom mounting bracket of the cooling unit. See the drawing below by model number. Seal the top edge with the foil tape supplied.
  - Seal around the conduit, where it goes into the circuit board compartment, with putty tape supplied or a silicon sealant can be used.



NOTE: The early series only which has the rectangular boiler enclosure, requires that the shield be bent across the middle slightly (1), with a little more angle on the upper tab (2).

Models with the interior light conduit (3) coming out of the top of the circuit board housing may require a trimmed slot and putty tape around the conduit and slot.

Caution should be used when washing the vehicle and avoid spraying water onto the refrigerator.