GMC MOTOR HOME SERVICE

Dealer Service Technical Bulletin

GMC TRUCK & COACH DIVISION GENERAL MOTORS CORPORATION

IMPORTANT—All Service Personnel Should Read and Initial

NUMBER: 76-TM-2
GROUP: 24 Misc.-1

DATE: April, 1976

SUBJECT: NORCOLD INVERTER ASSEMBLY FAILURE ANALYSIS
MODELS: ALL MODELS EQUIPPED WITH A NORCOLD REFRIGERATOR

Effective with this bulletin, the inverter assembly transformers or inverters may be replaced as individual components rather than as a complete assembly.

The procedure for determining which component failed within the inverter assembly is as follows:

1. Remove kick plate from the front of the refrigerator.
2. Disconnect the 12 volt source at connection "B" and the 110 volt source at connection "D". (Refer to Figure 1)
3. Thermostat Check (Refer to Figure 1).
   A. Separate connection "A".
   B. On the thermostat side of connection "A" connect ohmmeter leads to the gray thermostat leads.
   C. With the thermostat "on" (position #5), the ohmmeter should read 0 Ω (continuity). If the ohmmeter indicates no continuity:
      1. Check for improper or loose connections.
      2. If connections check out, replace the thermostat.
4. Transformer Check (Refer to Figure 1).
   A. Secondary Windings
      1. Separate connection "A".
      2. Connect the positive ohmmeter lead to the blue transformer lead and connect the negative ohmmeter lead to the yellow transformer lead.
      3. The ohmmeter should read approximately 3/4 Ω . If not, replace the transformer. (Transformer Part No. 2011860).
   B. Primary (117V Winding) (Refer to Figure 1).
      1. Separate connection "C".
      2. On the transformer side of connection "C" connect the positive ohmmeter lead to the white wire with a green tracer and the negative ohmmeter lead to the white wire.
      3. The ohmmeter should read approximately 12 Ω . If not, replace the transformer.
      4. Touch the mounting plate to make sure the winding is not grounded. The ohmmeter should read no continuity.
5. Inverter Check (Refer to Figure 1).
   A. Reconnect connection "C".
   B. Separate connection "A".
   C. Jump the two gray leads on the transformer side of connection "A".
   D. Separate connection "B".
   E. On the inverter side of connection "B", connect the positive ohmmeter lead to the red wire and the negative ohmmeter lead to the black wire. A reading of approximately 35 Ω should be indicated. However, any reading in the range of 4 Ω to 60 Ω is acceptable. If not, replace the inverter. (Inverter Part No. 2011861).
6. Reconnect all inverter assembly connections, including the 12 volt and 110 volt sources and turn on refrigerator.

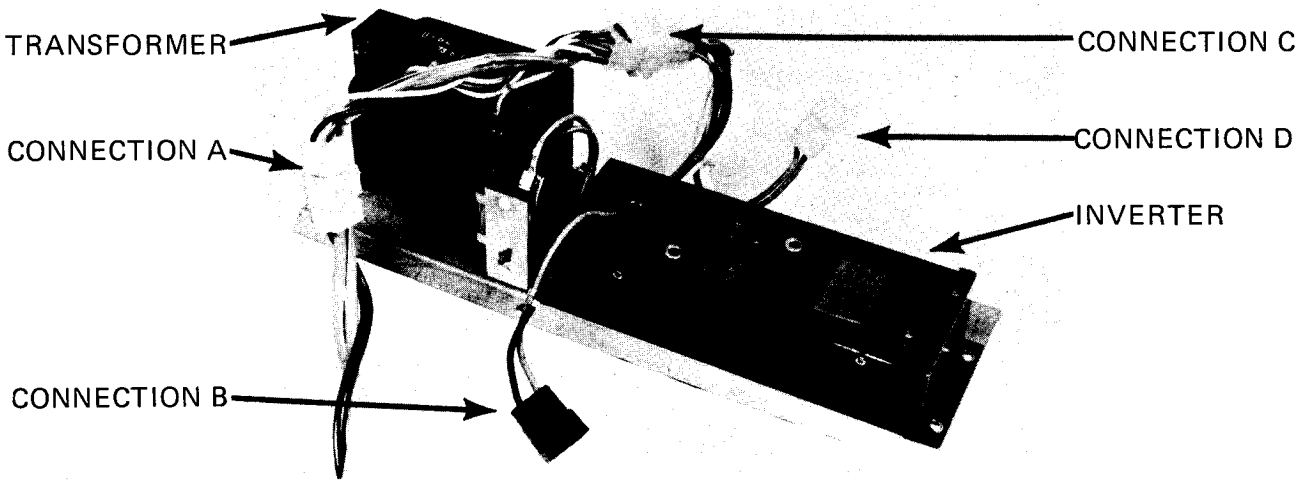

Figure No. 1 — Norcold Inverter Assembly