

Accessory Compressor Crankcase Heater

CRANKCASE HEATERS

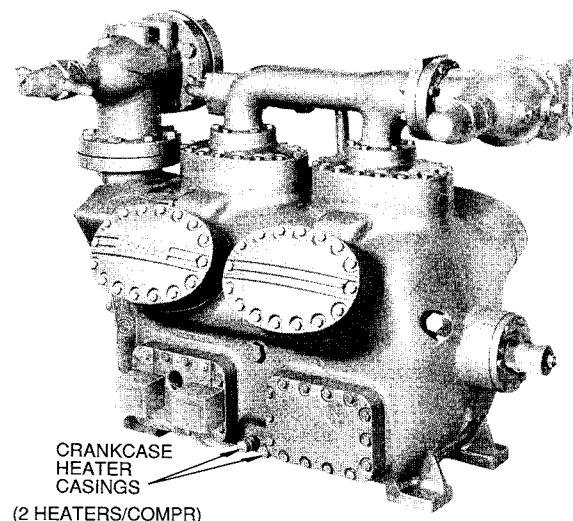
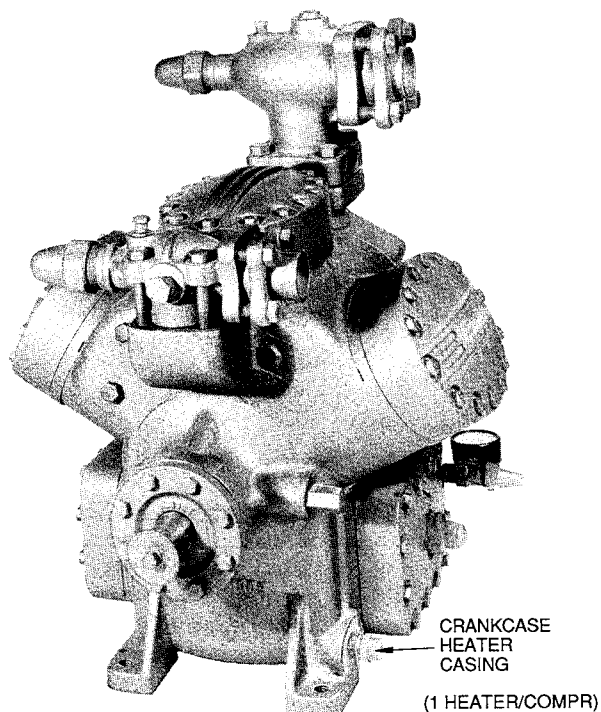
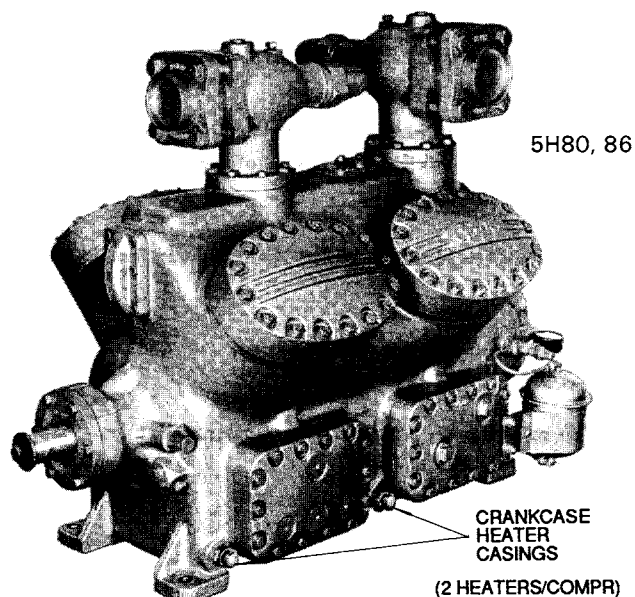
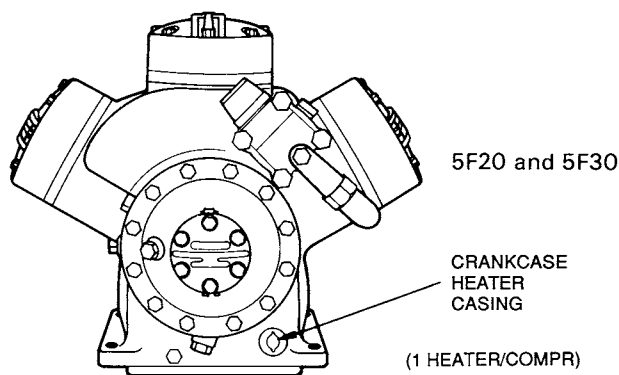
(See Note 1)

PACKAGE NUMBER	VOLTS	WATTS	COMPRESSOR USAGE
5F20-381	115	100	5F20, 30, 40, 60
5F20-391	230	100	
5H40-381	115	200	5H40, 46, 60, 66
5H40-391	230	200	
→ 5H40-381	115	200	5H80, 86, 120, 126 (2 Heater Packages/Compr)
5H40-391	230	200	

NOTES

1. The heater element is the only item in the package.
2. The 32 Series control box has a heater relay (CHR) in the circuit (Fig. 2). If the box is other than a 32 Series box and a heater relay is to be used, the following relays are available from Carrier:

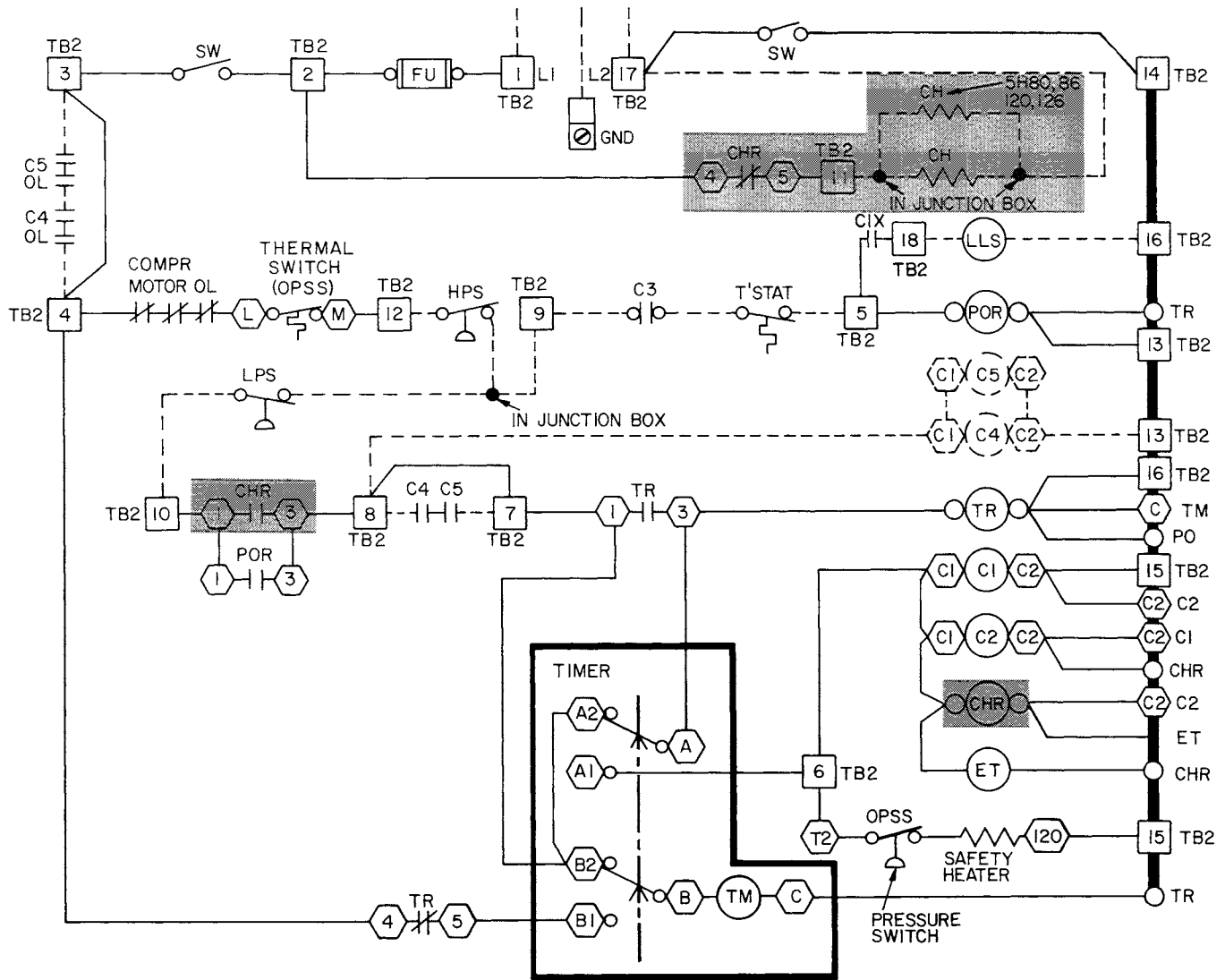
PART NUMBER	ELECTRICAL CHARACTERISTICS
HN61AJ101	115 v, 60 Hz
HN61AJ108	208/230 v, 50/60 Hz



5F40, 60; 5H40, 46, 60, 66

5H120, 126

Fig. 1 — Location of Crankcase Heaters



- | | | |
|--|--|---|
| <p>■ CONTROL COMPONENTS</p> <p>C — Compressor Contactor
 CH — Crankcase Heater
 CHR — Crankcase Heater Relay
 C1X — Compressor Contactor, Aux.
 TB — Terminal Block</p> | <p>□ TB Terminal
 ⬡ Marked Terminal
 ○ Unmarked Terminal</p> | <p>● Splice
 --- Field Wiring</p> |
|--|--|---|

Fig. 2 — 32 Series Control Circuit Schematic; Single Pumpout Control

3. On units where 2 heaters are used (5H80, 86, 120, 126), only one relay is required (See Fig. 2).
4. When selecting a relay, it must be of the same voltage as the control circuit. Mount the relay vertically.
5. Systems with crankcase heaters should be wired for single pumpout control.

INSTALLATION

1. Remove the pipe cap from the heater casing (Fig. 1).
2. To provide better heat transfer and help prevent possible premature burnout, thermal conductive grease is recommended for use with all crankcase heaters. One-half-ounce grease packets are available (Carrier Part Number 38AQ680001). Grease

is to be smeared on heater before inserting completely into heater casing.

3. Wire into the control circuit as shown in Fig. 2, and in accordance with applicable codes.

CAUTION: Do not operate heater(s) without oil in the crankcase. The heater element will burn out unless the casing is submerged in oil.

4. If the control box is other than a 32 Series control box, either a relay or auxiliary contacts in the compressor motor contactor may be used to energize the heater(s). These components should be wired into the control circuit so that the heater(s) cycles on only when the compressor shuts off. This cycle prevents excessive crankcase temperature and waste of power.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.