



**UNITED
TECHNOLOGIES
CARRIER**

Commercial Division
Carrier Corporation

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DATE: 7/27/64
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SERVICE BULLETIN

SUBJECT:

19D OIL PUMP TIME-DELAY RELAY

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PURPOSE

To transmit information concerning the oil pump adjustable time-delay relay.

MACHINES AFFECTED

19D and early 19DA machines.

INFORMATION

1. General

Located in 19D and early 19DA machine control consoles is an adjustable time-delay relay which keeps the oil pump running approximately one minute during compressor coastdown to supply lubrication to the transmission and bearings. Figure 1 shows the relays supplied by Honeywell and Barber-Colman.

2. Time Delay

The time-delay relay is of thermal design and requires a small amount of heat to operate. Therefore, the relay will also delay for about 35 to 60 seconds on machine start-up, depending upon the ambient temperature. When the machine Start button is pressed, the auxiliaries will start immediately on a cold start, but the oil pump and compressor will not start until the bimetal contacts of the time-delay relay have closed.

When the machine Stop button is pressed, the compressor motor is de-energized, but the time-delay relay remains energized.

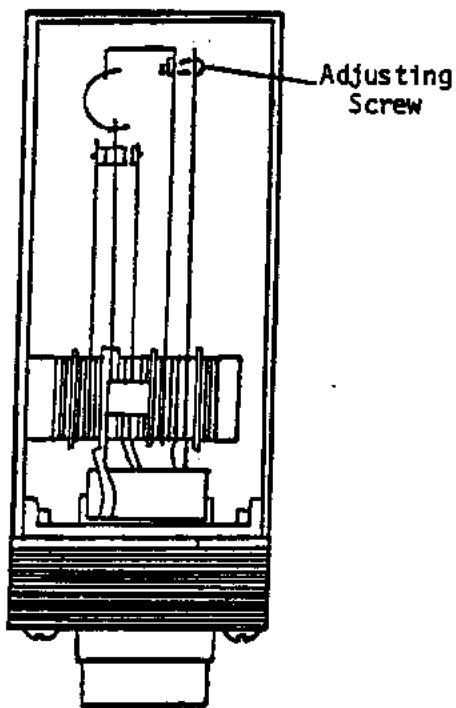
NOTE: The Barber-Colman relay will remain energized for approximately two minutes, provided the compressor has been operating for two minutes or longer. The time delay will be somewhat shorter for operating periods of less than two minutes.

3. Field Adjustment

The time-delay relay is set by the vendor and, normally, should not require field adjustment. However, the time delay can be changed by turning the adjusting screw (Fig. 1) clockwise to decrease time delay and counterclockwise to increase time delay.

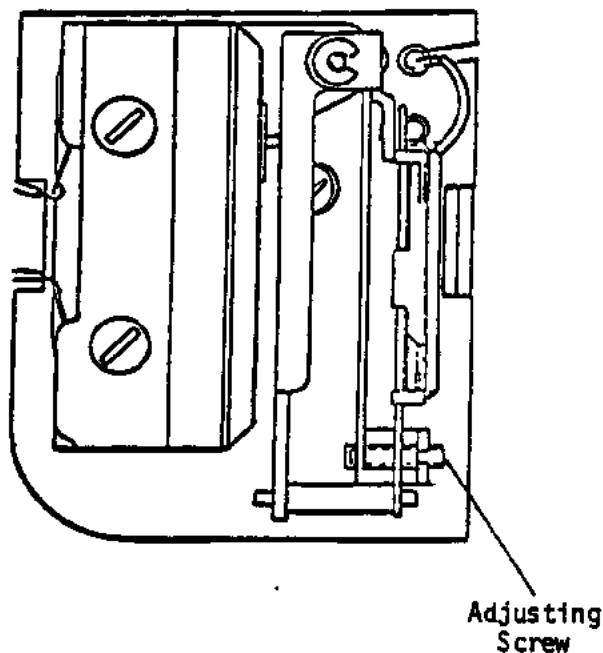
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1A

Carrier Part No. HN67MJ035



1B

Carrier Part No. HN67DJ125

Fig. 1. Adjustable Time-Delay Relay
(Used on 19D & Early 19DA Machines)