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BULLETIN

LITERATURE FILE NO.

**HCOM-SB-32**

**GENERAL  
SERVICE BULLETIN**

Since the Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified, experienced technicians.

8/17/79  
Reviewed 7/1/81

SUBJECT: MODEL E AND F HERMETIC COMPRESSOR, MOTOR THERMOSTAT WIRING

### INTRODUCTION

The purpose of this bulletin is to outline proper procedures for field wiring of the motor thermostat for Model E and F hermetic compressors. These compressors have been manufactured with a 3-lead motor thermostat (MT) since January 1963.

### DISCUSSION

The motor thermostat consists of two bi-metallic thermostatic switches. These two switches are wired in series so that either can interrupt the circuit. These switches are normally closed, and open on a temperature rise. They are factory set and cannot be field adjusted.

### Installation - New Compressors

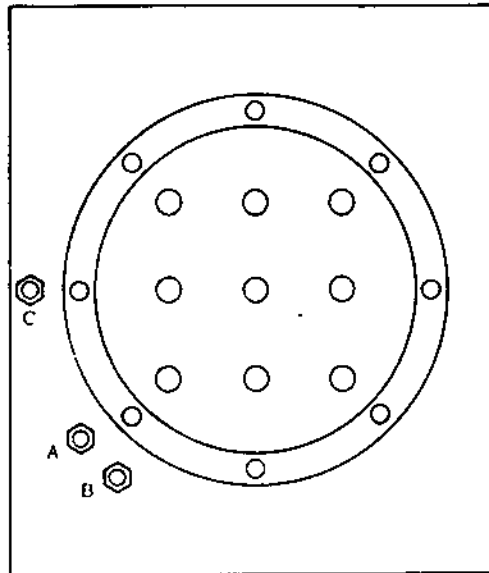
The two control circuit leads from the control panel are to be connected to spade connectors below the compressor terminal block and designated as "A" and "B" on the attached sketches. In this way, both switches are in series with the control circuit. The spade connector designated "C" on the switch is common to both switches.

If the motor terminal circuit should malfunction for any reason, check continuity between "A" and "C" and "B" and "C". Connect the leads from the control panel to the set of points which show continuity. In this way one of the thermostat switches will be operable and will protect the motor from over-heating.

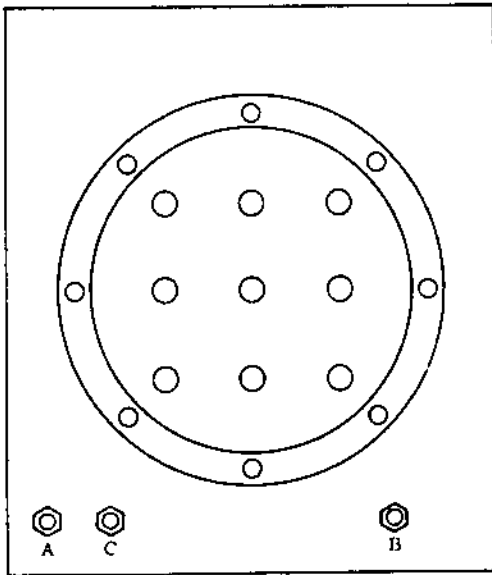
### Installation - Replacement Motors

If it becomes necessary to make terminal connections inside a new compressor (motor change) the common lead should be connected to the spade connector designated "C". The common lead is a different color than the other two leads. The other two leads can be connected interchangeably at points "A" and "B".

If a motor is replaced in an older compressor, there will be only two spade connectors on the terminal board. Insulate the common lead to prevent shorting the control circuit. Connect the other two leads to the spade connectors.

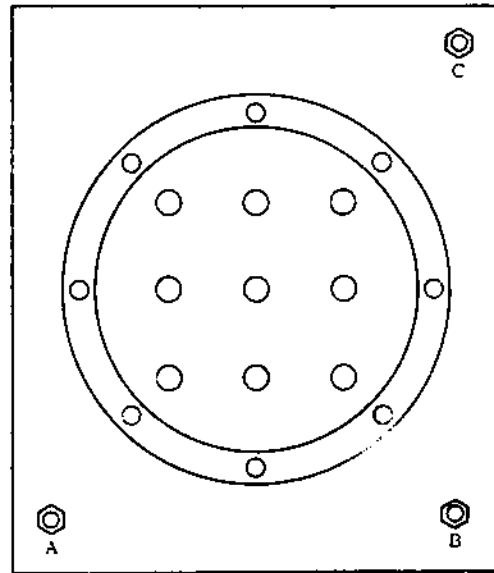


MODEL E COMPRESSOR



MODEL F COMPRESSOR

With 12.375 Inch Motor



MODEL F COMPRESSOR

With 8.77 Inch Motor