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DIVISION TAB-TRANE REFRIGERATION  
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PRESSOR CONDENSER  
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LITERATURE ITEM-GENERAL SERVICE  
BULLETIN

LITERATURE FILE NO.

**HCOM-SB-8**

**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.

1/27/76  
REVIEWED 7/1/81

SUBJECT: HERMETIC MODEL M AND R COMPRESSOR, ROBERTSHAW MC-20 MOTOR PROTECTOR  
TERMINAL SIZE CHANGE

### INTRODUCTION

In 1976, the size of the T1 and T2 terminals on the Robertshaw MC-20 motor protector relay was changed to prevent instances of miswiring of the control. The purpose of this bulletin is to outline the reasons for this change and describe procedures necessary to install the redesigned control.

### DISCUSSION

The size of the T1 and T2 terminal was changed from 1/4 inch male tabs to 3/16 inch male tabs to prevent accidental miswiring of the control, which damaged the internal electronic circuitry. If the control is miswired and 115 volt power applied to terminals M1 and M2, the relay will be damaged. The redesigned controls are supplied with 3/16 inch tabs on the T1 and T2 terminals. These are the main power input terminals, which accept 3/16 inch female connectors only. All other terminals on the MC-20 are 1/4 inch male tabs. They accept 1/4 inch female connectors only. This prevents application of 115 volt power to the wrong terminals.

### CORRECTIVE ACTION

In order to replace the older style motor protector (with 1/4 inch tabs on T1 and T2) with the new one (3/16 inch tabs on T1 and T2), it is necessary to replace the existing 1/4 inch female connectors with 3/16 inch female connectors.

### NEW PRODUCTION

All reciprocating products manufactured after March 1, 1976 that used the old style motor protector have the redesigned control.

### PARTS ORDERING INFORMATION

The redesigned motor protector was available from stock beginning in late March of 1976. The part number did not change.