

	FILE INFORMATION: DIVISION TAB-TRANE REFRIGERATION PRODUCTS PRODUCT TAB-RECIPROCATING COM- PRESSOR-CONDENSER UNITS MODEL TAB-Open A-B LITERATURE ITEM-GENERAL SERVICE BULLETIN	LITERATURE FILE NO. HCOM-SB-43
		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.

7/1/81
Supersedes A-63
Dated 12/4/74

**SUBJECT: REPLACEMENT OF MODEL A OR B OPEN COMPRESSOR WITH MODEL E OR F
OPEN COMPRESSOR**

INTRODUCTION

In 1974, the manufacture of the Model A and B compressor (Part No. COM-22 through COM-29) was discontinued. The purpose of this bulletin is to provide guidelines for the selection of compatible Model E and F compressors during replacement of a Model A or B compressor.

DISCUSSION

The Model A and B compressor can be replaced by a comparable Model E or F compressor. Replacement parts for the Model A and B compressor continue to be available. Refer to Table 1 to select a suitable Model E or F compressor to replace a Model A or B.

Refer to Figure 1 and Table 2 for major connection and mounting variations between the Model A or B and its Model E or F replacement. Table 3 describes modifications required to replace Model A or B compressors with the comparable Model E or F.

In most cases, the replacement procedure can be accomplished with minor modifications. The greatest modification occurs when replacing the A514 with the F-40 compressor, which requires the following:

1. The A514 has a 2 inch shaft. The F-40 uses a 1-1/2 inch shaft. The compressor changeout requires a replacement coupling.
2. A spacer must be installed between the F-40 compressor foot and the base. The spacer should be constructed of mild steel; 3"x 3"x1-3/4" thick with a center-drilled 9/16 inch hole.

TABLE 1

<u>NOMINAL TONS</u>		<u>A OR B COMPRESSOR</u>		<u>E OR F COMPRESSOR</u>	
<u>R - 12</u>	<u>R - 22</u>	<u>MODEL/SIZE</u>	<u>PART NO.</u>	<u>MODEL/SIZE</u>	<u>PART NO.</u>
10	15	B-514 4 CYL.	COM - 22	F-15 3 CYL.	COM - 153
15	25	B-516 6 CYL.	COM - 23	F-25 5 CYL.	COM - 146
20	30	B-518 8 CYL.	COM - 24	F-30 6 CYL.	COM - 147
25	40	A-514 4 CYL.	COM - 25	F-40 8 CYL.	COM - 148
40	60	A-516 6 CYL.	COM - 26	E-60 5 CYL.	COM - 150
50	75	A-518 8 CYL.	COM - 27	E-75 6 CYL.	COM - 151
40	60	A-516R 6 CYL.	COM - 28	E60R 5 CYL.	COM - 154
50	75	A-518R 8 CYL.	COM - 29	E60R 5 CYL.	COM - 154

* Righthand Version Not Available. COM-151 Must Be Used As Replacement.

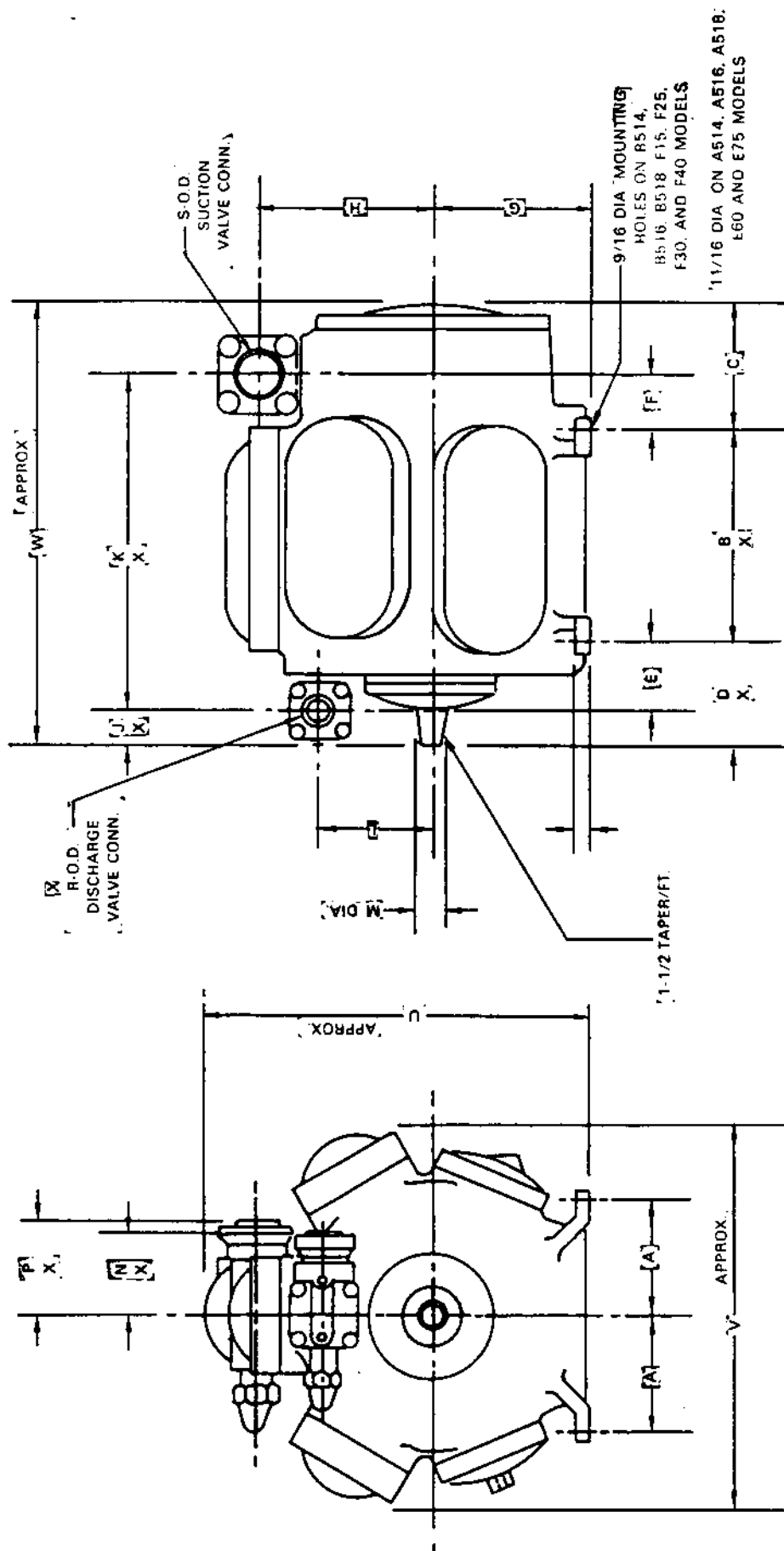
TABLE 2

COMPRESSOR MODEL NO.	NO. CYLS.	R-12 TONS	R-22 TONS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W
B 514	4	10	15	6-1/4	10-3/4	6-11/16	4-13/16	3-1/8	2-13/16	8-1/4	9-3/16	1-11/16	16-11/16	5-7/8	1,500 1,499	4	5-1/8	1-5/8	2-1/8	3/4	19-13/16	20-1/8	22-1/4
F 15	3	10	15	6-1/4	8	6-11/16	5-5/8	3-1/16	3-1/8	8-1/4	8-3/4	2-9/16	14-3/16	5-7/8	1,500 1,499	2,875 2,862	4,468 4,000	1-1/8	1-5/8	3/4	19	20-3/8	20-5/16
B 516	6	15	25	6-1/4	11-3/8	6-11/16	4-13/16	3-7/16	2-13/16	8-1/4	9-3/16	1-3/8	17-9/8	5-7/8	1,500 1,499	5-1/8	5-1/8	2-1/8	2-1/8	3/4	20-1/32	21-7/8	22-7/8
F 25	5	15	25	6-1/4	11-3/8	6-11/16	5-3/8	3-3/4	2-13/16	8-1/4	9-3/16	1-5/8	17-15/16	5-7/8	1,500 1,499	4,468 4,000	5,250 5,187	1-5/8	2-1/8	3/4	19	20-3/4	23-7/16
B 518	8	20	30	6-1/4	12	6-11/16	4-13/16	3-7/16	2-13/16	8-1/4	9-3/16	1-3/8	18-1/4	5-7/8	1,500 1,499	5-1/8	5-1/8	2-1/8	2-5/8	3/4	19-15/16	22-3/8	23-1/2
F 30	6	20	30	6-1/4	11-3/8	6-11/16	5-3/8	3-3/4	2-13/16	8-1/4	9-3/16	1-5/8	17-15/16	5-7/8	1,500 1,499	4,468 4,000	5,250 5,187	1-5/8	2-5/8	3/4	19	20-3/4	23-7/16
A 514	4	25	40	7-1/2	12-15/16	9-1/8	5-11/16	3-9/16	3-7/8	10	11-11/16	2-1/8	20-3/8	6-15/16	2,000 1,999	5-1/8	3-13/16	2-1/8	3-1/8	3/4	24-3/4	24-1/2	27-3/4
F 40	8	25	40	6-1/4	12	6-11/16	5-9/16	3-15/16	2-13/16	8-1/4	9-3/16	1-5/8	18-3/4	5-7/8	1,500 1,499	4,468 4,000	5,250 4,812	1-5/8	2-5/8	3/4	19-15/16	21-1/2	24-1/4
A 516	6	40	60	7-1/2	13-1/16	9-1/8	5-11/16	3-9/16	3-7/8	10	12-1/4	2-1/8	21-1/8	6-15/16	2,000 1,999	5-1/8	7-3/16	2-5/8	4-1/8	1	25-3/4	26-1/2	28-1/2
F 60	5	40	60	7-1/2	13-11/16	9-1/8	7-1/2	5-7/32	3-7/8	10	12-7/32	2-9/32	22-25/32	6-15/16	2,000 1,999	5,250 5,187	7,312 6,875	2-1/8	4-1/8	1	25-3/4	25-5/16	30-5/16
A 518	8	50	75	7-1/2	14-7/16	9-1/8	5-11/16	4-3/16	3-7/8	10	12-1/4	1-1/2	22-1/2	6-15/16	2,000 1,999	5-13/16	7-3/16	3-1/8	4-1/8	1	25-3/4	27-1/2	29-1/4
E 75	6	50	75	7-1/2	13-11/16	9-1/8	7-1/2	5-7/32	3-7/8	10	12-7/32	2-9/32	22-25/32	6-15-16	2,000 1,999	5,250 4,812	7,312 6,875	2-5/8	4-1/8	1	25-3/4	25-5/16	30-5/16

TABLE 3 MODIFICATION COMPARISON

	B 514/F-15	B516/F-25	B518/F-30	A 514/F-40	A516/E-60	A 518/E-75
1) Location of end of shaft*	Same	Same	Same	Same	Same	Same
2) Center Line Shaft to base	Same	Same	Same	Add 1-3/4" spacer to base	Same	Same
3) End of Shaft to 1st Mtg Hole	Redrill Base Back 13/16"	Redrill Base Back 9/16"	Redrill Base Back 9/16"	Slot Base Forward 1/8"	Redrill Base Back 1-13/16"	Redrill Base Back 1-13/16"
4) End of Shaft to 2nd Mtg Hole	Redrill Base Forward 1-15/16"	Redrill Base Back 9/16"	Same	Redrill Base Back 1-1/16"	Redrill Base Back 1-13/16"	Redrill Base Back 1-1/16"
5) Shaft Dia.	Same	Same	Same	2" to 1.5"	Same	Same
6) Location Suction Line (Max Dim Change)	1-5/8"	9/16"	Same	2-1/8"	1-13/16"	2-1/8"
7) Location Disch Line - (Max Dim. Change)	7/8"	1/4"	1/4"	1/2"	5/32"	25/32"
8) Suction Line Size	Reduce 2-1/8 to 1-5/8"	Same	Same	Reduce 3-1/8 to 2-5/8"	Same	Same
9) Disch. Line Size	Reduce 1-5/8" to 1-1/8"	Reduce 2-1/8" to 1-5/8"	Reduce 2-1/8" to 1-5/8"	Reduce 2-1/8" to 1-5/8"	Reduce 2-5/8" to 2-1/8"	Reduce 3-1/8" to 2-5/8"

* Reference Point



MODEL F25 SHOWN

FIGURE 1