

**TRANE**

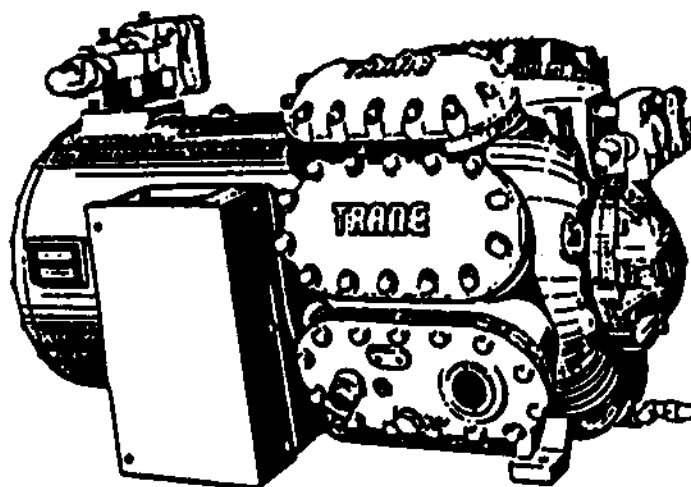
HERMETIC RECIPROCATING COMPRESSOR

HCOM-UP-1B**Unit Parts**

Model(s)

F, 5-6-8 Cylinder

"C,D&E" Design



Library	Unit Parts Literature
Product Section	Refrigeration
Product	Compressor-Condensing Unit
Model	HCOM
Literature Type	Unit Parts
Sequence	1B
Date	July, 1990
File No.	UP-RF-COM-HCOM-UP-1B-790
Supersedes	HCOM-UP-1A-587

Literature Change:
General Update

This parts list is designed for ease of parts selection. Wherever possible, the parts list allows parts selection without the use of the Trane model number. Parts may be selected from the illustrations and/or tables from the parts index located at the back of the parts list.

Contact your local Trane Parts Center for assistance or identification of any parts not identified in this parts list.

Since The Trane Company has a policy of continuous product improvement and parts standardization, it reserves the right to change specifications and design without notice. This parts list identifies known standardized parts and other parts changed by standardization. The installation and servicing of this equipment should be done by qualified, experienced technicians.

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CTC.

ψ One KIT-319 and Required Number of KIT-40 (Depending on Number of Compressor Cylinders) are Needed for Complete Compressor Overhaul.

11



MOTOR AND BEARING PARTS

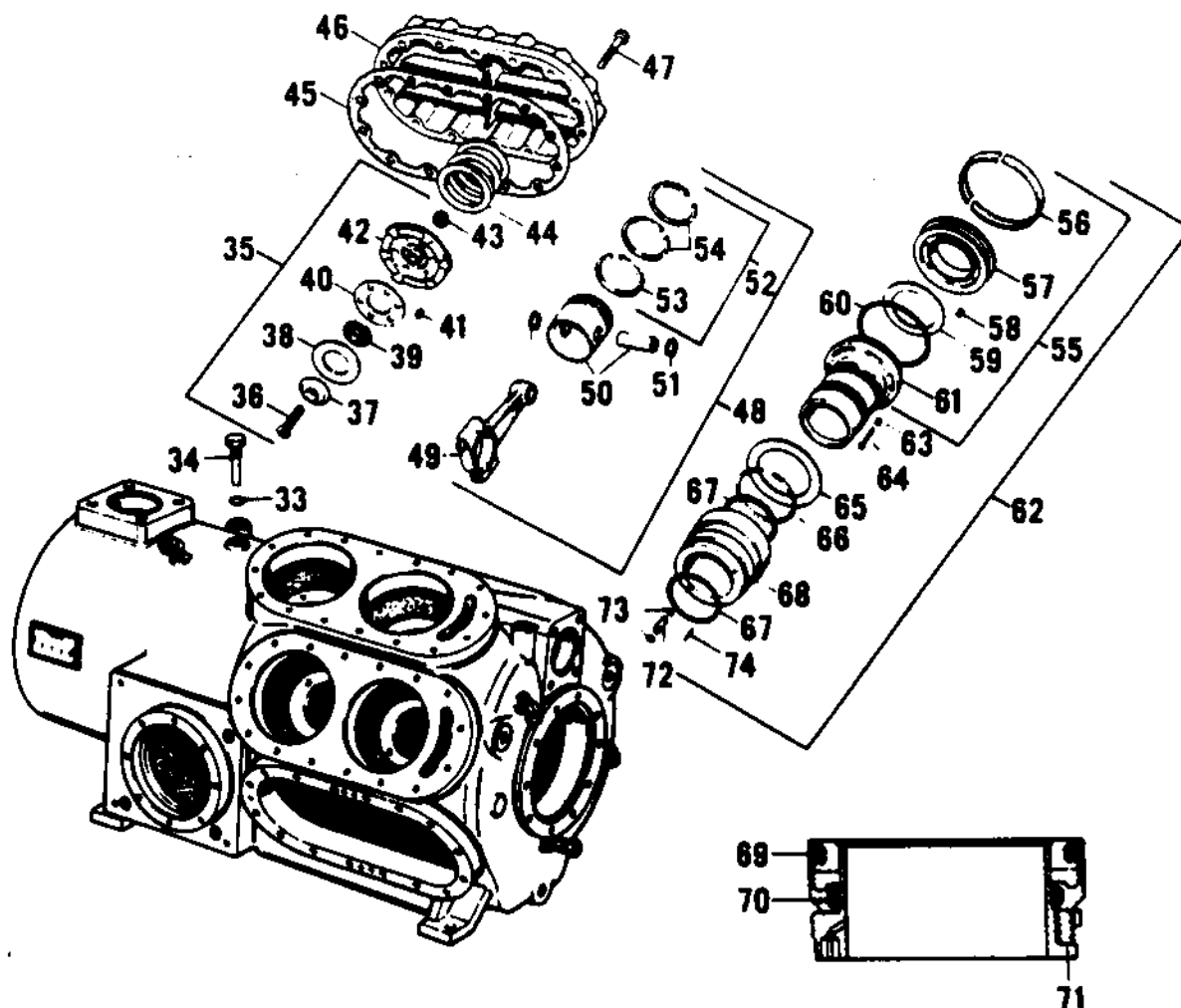
REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
1	Screw - Cap, Hex Soc. Hd., 5/8-18x3 -----	SCR-352	1	1	1
2	Lockwasher, 5/8 -----	WAS-2	1	1	1
3	Washer - Retaining -----	WAS-98	1	1	1
4	Motor - Hermetic -----	*	1	1	1
4A	Sensor-Motor Winding Temperature	SEN-14	1	1	1
5	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1-1/2 --	SCR-40	6	6	6
6	Lockwasher, 3/8 -----	WAS-13	6	6	6
7	Bearing Head - Motor End -----	BRG-147	1	1	1
	Including:				
8	Bearing Insert -----	BRG-65	2	2	2
9	Pin - Roll, 1/8" Dia., 1/2" Lg. -----	PIN-26	1	1	1
10	"O" Ring -----	RNG-79	1	1	1
11	Bearing - Thrust -----	BRG-62	2	2	2
12	Key - Crankshaft, 3/8 x 3/8 x 3 -----	KEY-43	1	1	1
13	Crankshaft, Including Magnetic Plugs -----	CSF-41	1		
13	Crankshaft, Including Magnetic Plugs -----	CSF-42		1	
13	Crankshaft, Including Magnetic Plugs -----	CSF-46			1
14	Plug - Magnetic -----	PLU-10	2	2	2
15	Housing -----	HUR-342	1		
15	Housing -----	HUS-343		1	
15	Housing -----	HUS-507			1
16	Valve - Relief, 385 PSI -----	VAL-240	1	1	1
17	Valve - Oil Check -----	VAL-60	1	1	1
18	Valve - Oil Check -----	VAL-55	2	2	2
19	Breaker - Foam -----	BKR-34	2	2	2
20	Spring - Retaining -----	SPC-30	1	1	1
21	Strainer - Oil -----	SRA-31 ⁺	1	1	1
22	Adaptor - Compression Elbow 1/2 O.D. x 3/8 M.P.T. -----	ADP-57	1	1	1
23	Valve - Angle, 3/8" Flare x 3/8" N.P.T. --	VAL-31	1	1	1
24	Nut - Cap. Angle Valve -----	NUT-16	1	1	1
25	Shim - Bearing Head, .020" -----	SHM-25	AR	AR	AR
25	Shim - Bearing Head, .010" -----	SHM-26	AR	AR	AR
25	Shim - Bearing Head, .005" -----	SHM-34	AR	AR	AR
26	"O" Ring - Bearing Head to Housing -----	RNG-127	1	1	1
27	Gasket - Bearing Head -----	GKT-595	1	1	1
28	Bearing Head & Oil Pump Assembly -----	BRG-179	1	1	1
	Consisting of:				
28A	Oil Pump Assembly	PMP-369	1	1	1
	Consists of:				
	Gasket, .013 THK X 1.53 ID -----	GKT-1189	1	1	1
	Gasket, .015 THK X 1.53 ID -----	GKT-1190	1	1	1
29	Valve - Oil Relief -----	VAL-138	1	1	1
30	"O" Ring -----	RNG-69	1	1	1
31	Pin - Cotter -----	PIN-27	1	1	1
32	Screw - Cap, Hex. Soc. Hd., 1/4 x 20 x 3/4 -----	SCR-708	8	8	8

* Select Part Number From Service Bulletin HCOM-SB-7A

AR As required.

+ When oil strainer is replaced, elbow adapter must be replaced also.

HEAD AND CYLINDER PARTS



HEAD AND CYLINDER PARTS

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
33	"O" Ring -----	RNG-69	1	1	1
34	Screw - Motor Mounting -----	SCR-348	1	1	1
35	Discharge Valve Assembly -----	VAL-1610*	5	6	8
	Consisting of:				
36	Bolt - Valve Cage -----	BLT-64	1	1	1
37	Seat - Discharge Valve -----	SET-7	1	1	1
38	Valve - Discharge -----	VAL-195	1	1	1
39	Retainer - Cushion "C & D" Design Only -	RTR-9*	1	1	1
40	Cushion - Valve "C & D" Design Only ----	CUS-10*	1	1	1
41	Spring - Discharge Valve -----	SPG-4	6	6	6
42	Cage - Valve -----	CAG-34*	1	1	1
43	Locknut - Valve Cage Bolt -----	NUT-72	1	1	1
44	Spring - Cylinder -----	SPG-39	5	6	8
45	Gasket - Cylinder Head -----	GKT-252	3	3	4

* RTR-9 and CUS-10 will continue to be available for previous design discharge valve assembly (VAL-666) on an "as needed" basis. RTR-9 and CUS-10 are not used with New design discharge valve assembly, VAL-1610 or with the New design valve cage, CAG-34.

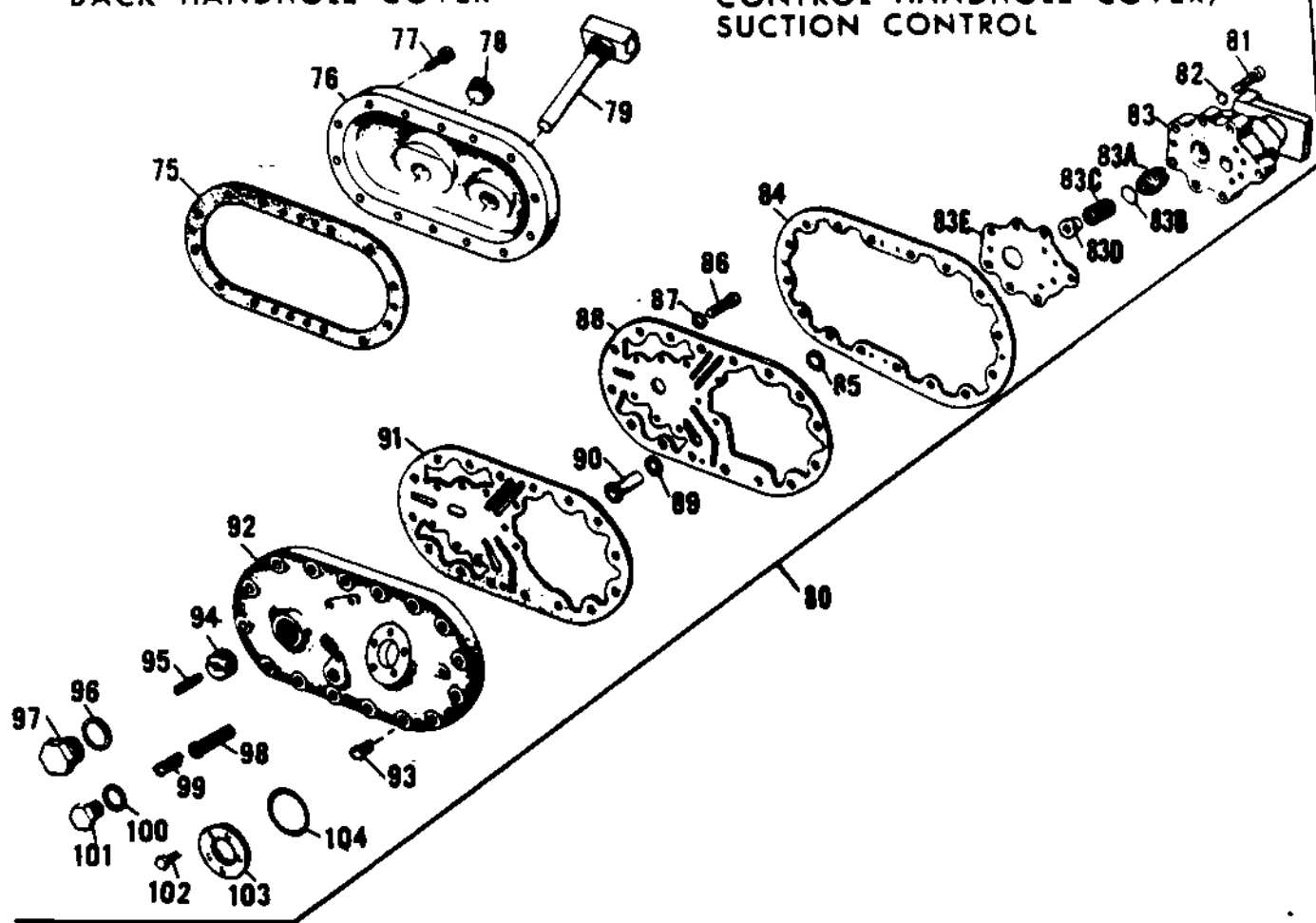
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HEAD AND CYLINDER PARTS (Continued From Previous Page)

EF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
46	Head - Cylinder -----	HD-19	3	3	4
47	Screw - Cap, Hex Hd., 7/16-14 x 2-1/2 ---	SCR-44	42	42	56
48	Piston & Conn. Rod Assembly, Complete ---	PST-28	5	6	8
	Consisting of:				
49	Rod - Connecting -----	ROD-37	1	1	1
50	Piston, Including Pin & Retaining Rings	PST-20	1	1	1
51	Ring - Retaining -----	RNG-97	2	2	2
52	Piston Ring Kit -----	RNG-78	1	1	1
	Consisting of:				
53	Ring - Oil -----	RNG-96	1	1	1
54	Ring - Compression -----	RNG-95	2	2	2
55	Cylinder Assembly, Without Unloaders (Standard Lift Valve) -----	LNR-26	2	2	2
55	Cylinder Assembly, Without Unloaders (Low Lift Valve) -----	LNR-31	2	2	2
	Consisting of:				
56	Ring - Retaining -----	RNG-98	3	3	3
57	Plate - Valve (Standard Lift Valve) ---	PLT-107	1	1	1
57	Plate - Valve (Low Lift Valve) -----	PLT-126	1	1	1
58	Spring - Valve (Standard Lift Valve) --	SPG-37	6	6	6
58	Spring - Valve (Low Lift Valve) -----	SPG-37	3	3	3
59	Valve - Suction -----	VAL-194	1	1	1
60	"O" Ring - Valve Plate -----	RNG-99	1	1	1
61	Liner - Cylinder -----	LNR-20	1	1	1
62	Cylinder Assembly, With Unloaders (Standard Lift Valve) -----	LNR-25	3	4	6
62	Cylinder Assembly, With Unloaders (Low Lift Valve) -----	LNR-32	3	4	6
	Consisting of:				
56	Ring - Retaining -----	RNG-98	3	3	3
57	Plate - Valve (Standard Lift) -----	PLT-107	1	1	1
57	Plate - Valve (Low Lift) -----	PLT-126	1	1	1
58	Spring - Valve (Standard Lift Valve) --	SPG-37	6	6	6
58	Spring - Valve (Low Lift Valve) -----	SPG-37	3	3	3
59	Valve - Suction -----	VAL-194	1	1	1
60	"O" Ring - Valve Plate -----	RNG-99	1	1	1
61	Liner - Cylinder -----	LNR-20	1	1	1
63	Spring - Lift Pin -----	SPG-38	6	6	6
64	Pin - Lift -----	PIN-24	6	6	6
65	Ring - Take Up -----	RNG-100	1	1	1
66	Ring - Retaining -----	RNG-101	1	1	1
67	"C" Ring - Cylinder Liner to Unloader -	RNG-102	2	2	2
68	Unloader Assembly -----	UNL-4	1	1	1
	Consisting of:				
69	"O" Ring - Unloader Seal Ring -----	RNG-103	1	1	1
70	"O" Ring - Unloader Piston -----	RNG-53	1	1	1
71	Spring - Unloader Piston -----	SPG-23	14	14	14
72	Connector - Oil -----	CON-1	1	1	1
73	"O" Ring - Oil Connector -----	RNG-10	2	2	2
74	Pin - Roll, 3/16" x 1" -----	PIN-4	3	4	6

BACK HANDHOLE COVER

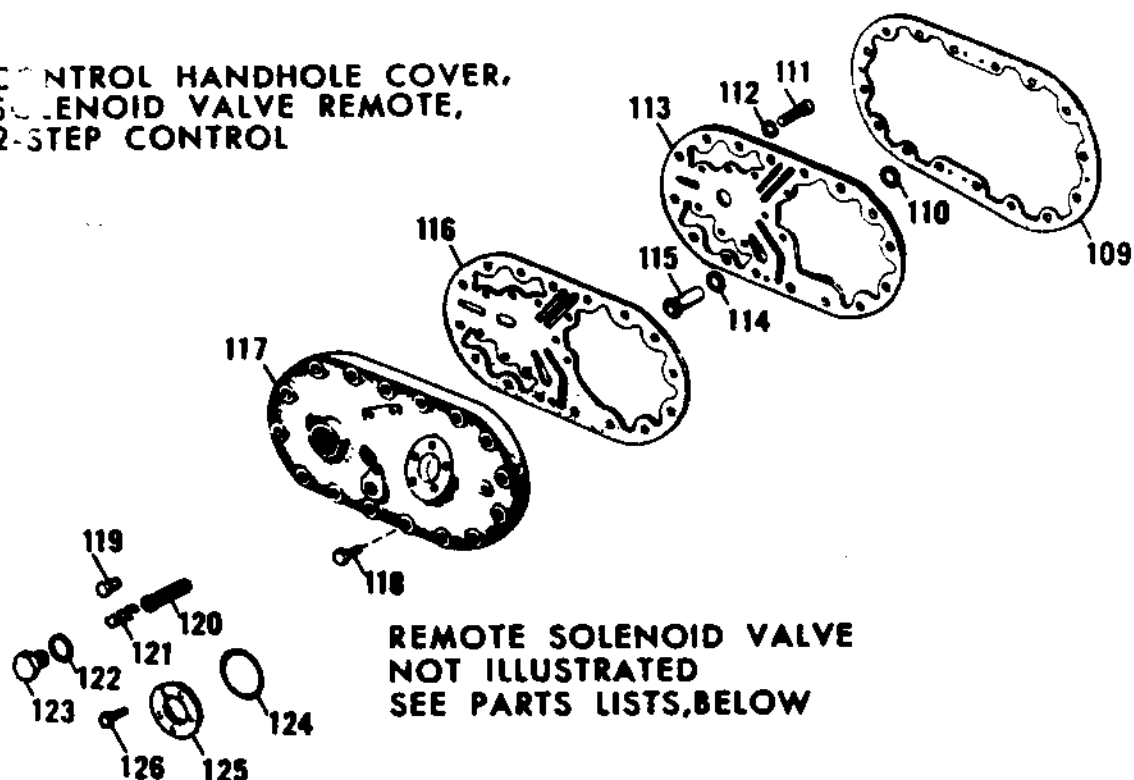
CONTROL HANDHOLE COVER, SUCTION CONTROL



CONTROL HANDHOLE COVER ASSEMBLY

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
75	Gasket - Handhole Cover -----	GKT-253	1	1	1
76	Cover - Handhole -----	COV-151	1	1	1
77	Screw - Cap, Hex Hd., 7/16x 14x1-3/4-----	SCR-67	14	14	14
78	Plug - Pipe, CTSK, 3/4-14 NPT-----	PLU-48	1	1	1
79	Heater - Crankcase, 115 Volt/230 Volt -----	HTR-210	1	1	1
80	Cover - Handhole Assembly, Complete-----	COV-559	1	1	1
	Consisting of:				
81	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1-3/4-----	SCR-46	7	7	8
82	Lockwasher, 3/8-----	WAS-17	7	7	8
83	Capacity Control Assembly, Complete -----	CNT-4	1	1	1
	Consisting of:				
83A	Bellows Assembly, Including Bellows -----	BEL-2	1	1	1
	Stop Sleeve-----	RNG-61	1	1	1
83B	"O" Ring - Capacity Control -----				
83C	Spring - Bellows, Green (Used on R-22 Units)-----	SPG-42	1	1	1
83C	Spring - Bellows, Black (Used on R-12 Units)-----	SPG-43	1	1	1
83D	Seat - Spring -----	SET-9	1	1	1
83E	Gasket - Capacity Control-----	GKT-24	1	1	1
84	Gasket - Handhole Cover -----	GKT-253	1	1	1
85	Ring - Retaining-----	RNG-93	1	1	1
86	Screw - Cap, 12 Pt. Hd., 3/8-24x1-----	SCR-168	1	1	1
87	Lockwasher, 3/8 -----	WAS-17	1	1	1
88	Plate - Distributor -----	PLT-109	1	1	1
89	"O" Ring - Strainer Screen Cover -----	RNG-52	1	1	1
90	Cover - Strainer Screen -----	COV-4	1	1	1
91	Gasket - Distributor -----	GKT-254	1	1	1
92	Cover - Control Handhole -----	COV-315	1	1	1
93	Screw - Cap, Hex Hd., 7/16-14 x 1-3/4-----	SCR-67	14	14	14
94	Screw -----	SCR-210	1	1	1
95	Screw - Bellows Adjusting -----	SCR-47	1	1	1
96	Gasket - Bellows Adjusting Screw -----	GKT-29	1	1	1
97	Plug - Bellows Adjusting Screw -----	PLU-13	1	1	1
98	Screen - Strainer -----	SRN-2	1	1	1
99	Spring - Strainer Screen -----	SPG-6	1	1	1
100	"O" Ring - Strainer Screen -----	RNG-34	1	1	1
101	Plug - Strainer Screen -----	PLU-12	1	1	1
102	Screw - Cap, Hex Hd., 1/4-20x3/4-----	SCR-30	5	5	5
103	Sight Glass -----	GLS-34	1	1	1
104	"O" Ring - Sight Glass -----	RNG-207	1	1	1

CONTROL HANDHOLE COVER,
SOLENOID VALVE REMOTE,
2-STEP CONTROL

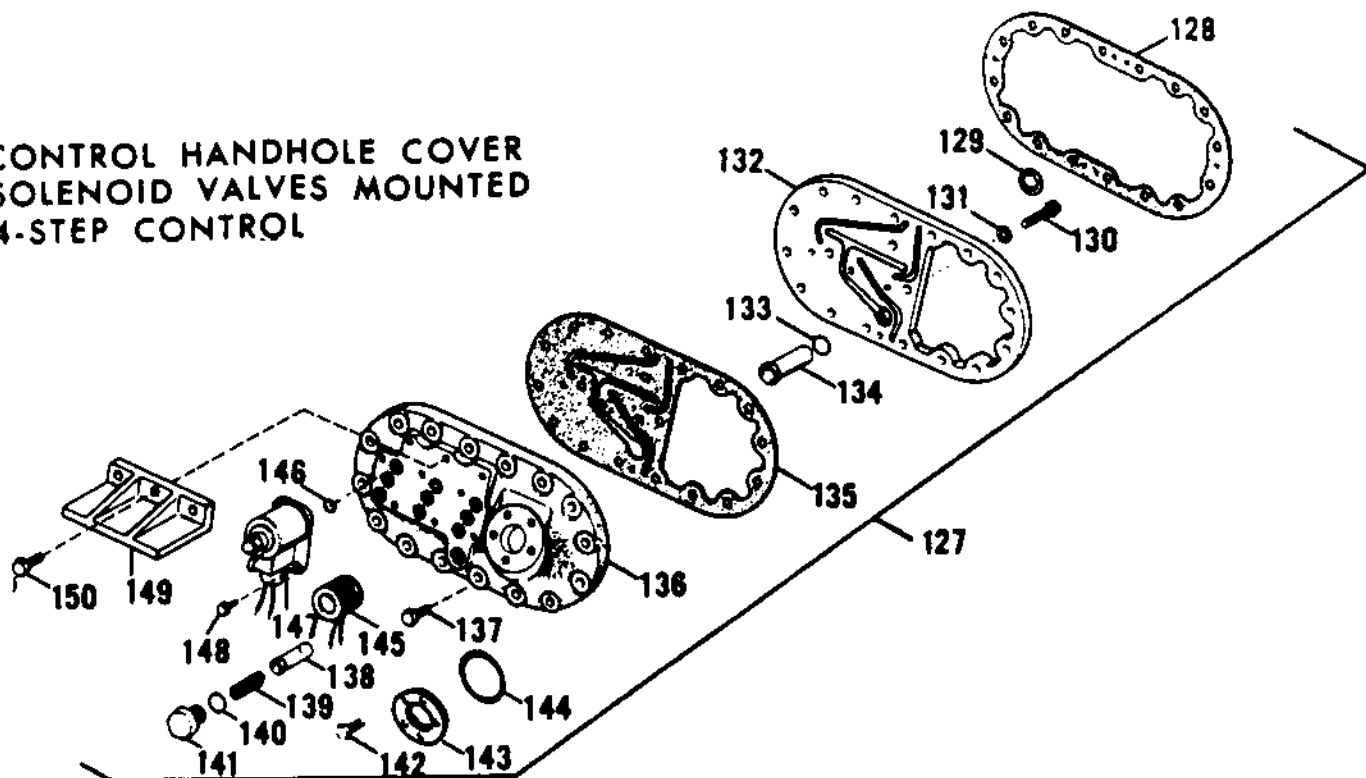


CONTROL HANDHOLE COVER ASSEMBLY - REMOTE SOLENOID VALVE, 2 STEP

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
109	Gasket - Handhole Cover	GKT-253	1	1	1
110	Ring - Retaining	RNG-93	1	1	1
111	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1	SCR-168	8	8	8
112	Lockwasher, 3/8	WAS-17	8	8	8
113	Plate - Distributor	PLT-112	1	1	1
114	"O" Ring - Strainer Screen Cover	RNG-52	1	1	1
115	Cover - Strainer Screen	COV-4	1	1	1
116	Gasket - Distributor	GKT-254	1	1	1
117	Cover - Control Handhole	COV-316	1	1	1
118	Screw - Cap, Hex Hd., 7/16-14 x 1-3/4	SCR-67	14	14	14
119	Plug - Pipe, Hex Hd., 1/8	PLU-20	4	4	4
120	Screen - Strainer	SRN-2	1	1	1
121	Spring - Strainer Screen	SPG-6	1	1	1
122	"O" Ring - Strainer Screen	RNG-34	1	1	1
123	Plug - Strainer Screen	PLU-12	1	1	1
124	"O" Ring - Sight Glass	RNG-207	1	1	1
125	Sight Glass	GLS-34	1	1	1
126	Screw - Cap, Hex Hd., 1/4-20 x 3/4	SCR-30	5	5	5
***	Valve - Remote, Solenoid, 3-Way, Asco No. CX-8320A15T, 110-120/50-60	VAL-545	1	1	1
***	Coil - Remote Solenoid Valve, 110-120 Volt, 50-60 Cycle, Asco No. 96-619-1D (Use with VAL-545)	COL-1232	1	1	1
***	Valve - Remote, Solenoid, 3-Way, Asco No. CX-8320A15T, 220-240/50-60	VAL-543	1	1	1
***	Coil - Remote Solenoid Valve, 220-240 Volt, 50-60 Cycle, Asco No. 96-619-2D (Use with VAL-543)	COL-1233	1	1	1

*** Not Illustrated

CONTROL HANDHOLE COVER
SOLENOID VALVES MOUNTED
4-STEP CONTROL



CONTROL HANDHOLE COVER ASSEMBLY-MOUNTED SOLENOID VALVE, 4 STEP

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
127	Electric Handhole Cover Assy. (115 V.) ---	COV-440	1	1	1
127	Electric Handhole Cover Assy. (230 V.) ---	COV-441	1	1	1
128	Gasket - Handhole Cover -----	GKT-253	1	1	1
129	Ring - Retaining -----	RNG-93	1	1	1
130	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1 -----	SCR-168	3	3	3
131	Lockwasher, 3/8 -----	WAS-17	3	3	3
132	Plate - Distributor -----	PLT-130	1	1	1
133	"O" Ring - Strainer Screen Cover -----	RNG-52	1	1	1
134	Cover - Strainer Screen -----	COV-4	1	1	1
135	Gasket - Distributor -----	GKT-281	1	1	1
136	Cover - Control Handhole -----	COV-317	1	1	1
137	Screw - Cap, Hex Hd., 7/16-14 x 1-3/4 -----	SCR-67	14	14	14
138	Screen - Strainer -----	SRN-2	1	1	1
139	Spring - Strainer Screen -----	SPG-6	1	1	1
140	"O" Ring - Strainer Screen -----	RNG-34	1	1	1
141	Plug - Strainer Screen -----	PLU-12	1	1	1
142	Screw - Cap, Hex Hd., 1/4-20 x 3/4 -----	SCR-30	5	5	5
143	Sight Glass -----	GLS-34	1	1	1
144	"O" Ring - Sight Glass -----	RNG-207	1	1	1
145	Coil - Solenoid Valve, Asco No. 64-982-5, 230V., 50-60 Cyc., (Use with Asco Valve No. 831551, 115V) -----	COL-65 +	3	3	3
145	Coil - Solenoid Valve, Asco No. 64-982-4, 115V., 50-60 Cyc., (Use with Asco Valve No. 83551, 230V) -----	COL-70 +	3	3	3

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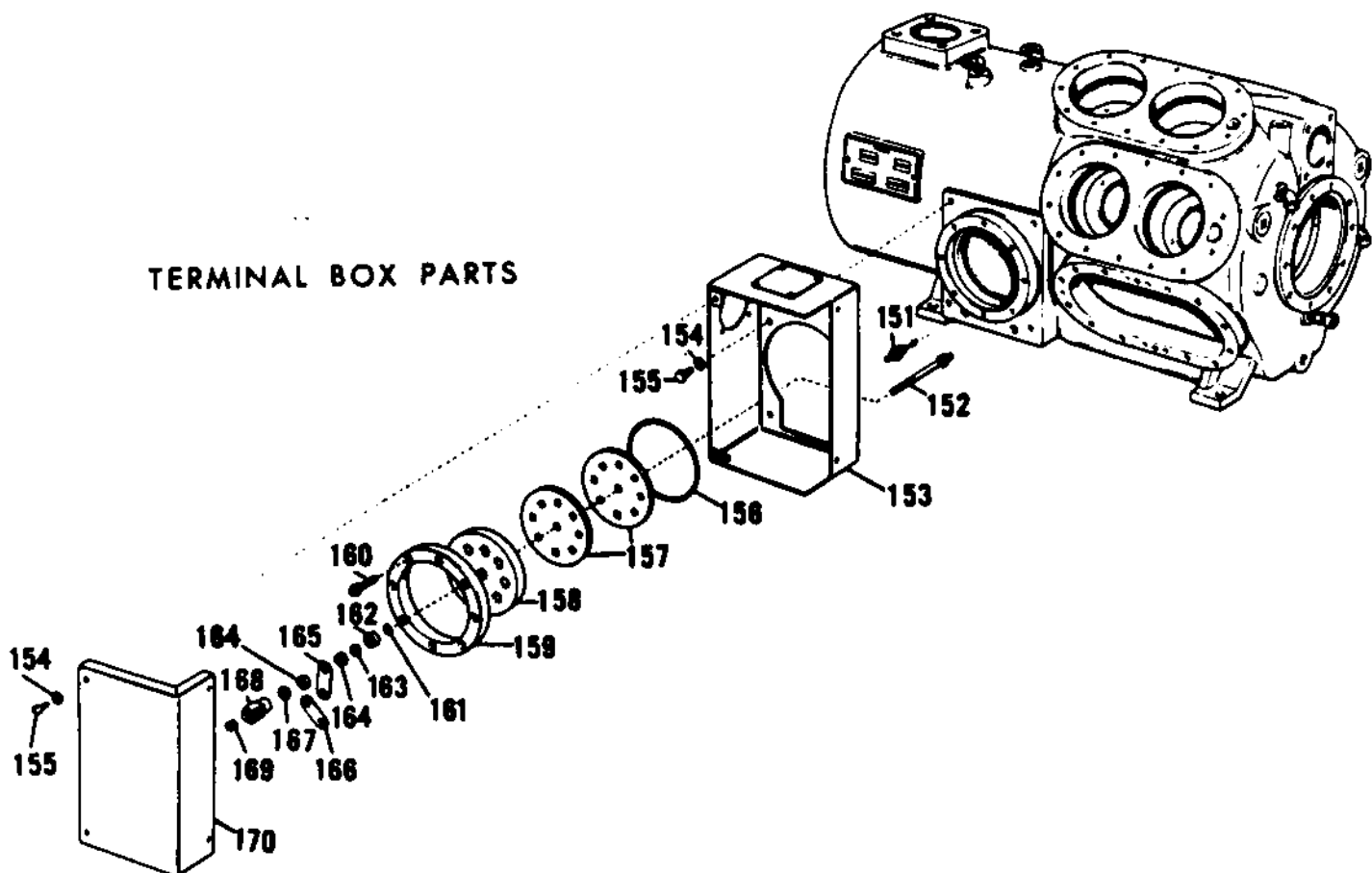
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CONTROL HANDHOLE COVER ASSEMBLY-MOUNTED SOLENOID VALVE, 4 STEP

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
145	Coil - Solenoid Valve, Asco No. 99-216-2D, 230V., 50-60 Cyc., (Use with Asco Valve No. CLBX8351B14, 230V) -----	COL-825 +	3	3	3
145	Coil - Solenoid Valve, Asco No. 99-216-1D, 115V., 50-60 Cyc., (Use with Asco Valve No. CLBX8351B14, 115V) -----	COL-824 +	3	3	3
145	Coil-Solenoid, Product Engineer for use on VAL-669, 230 volt, 50/60 cycle -----	COL-2544	3	3	3
145	Coil-Solenoid Valve, Asco No. 99-216-2D, 230V, 50-60 Cycle (Use with Asco Valve No. CLBX8351B14, 230V) -----	COL-825 +	3	3	3
145	Coil-Solenoid Valve, Asco No. 99-216-1D, 115V, 50-60 Cycle (Use with Asco Valve No. CLBX8351B14, 115V) -----	COL-824 +	3	3	3
145	Coil-Solenoid, Product Engineer for use on VAL-669, 230V, 50-60 Cycle -----	COL-2544	3	3	3
145	Coil-Solenoid, Alco for use on Val-669, 230V, 50-60 Cycle -----	COL-4714	3	3	3
145	Coil-Solenoid, Alco for use on Val-670, 115V, 50-60 Cycle -----	COL-4715	3	3	3
145	Coil-Solenoid, Product Engineer for use on VAL-670, 115 volt, 50/60 cycle -----	COL-2545	3	3	3
146	"O" Ring - Solenoid Valve Mounting -----	RNG-38	9	9	9
147	Valve - Solenoid, 3-Way, 230 Volt, 50-60 Cycle, ASCO No. CLBX8351B14 -----	VAL-669	3	3	3
147	Valve - Solenoid, 3-Way, 115 Volt, 50-60 Cycle, ASCO No. CLBX8351B14 -----	VAL-670	3	3	3
148	Screw, 1/4-20 x 5/8 -----	SCR-202	6	6	6
149	Guard Plate -----	GRD-39	1	1	1
150	Screw - Cap, Hex Hd., 5/16-18 x 7/8 -----	SCR-31	3	3	3

† The ASCO Number and Voltage from valve on compressor must be known to order correct replacement coil. They are not interchangeable.

TERMINAL BOX PARTS



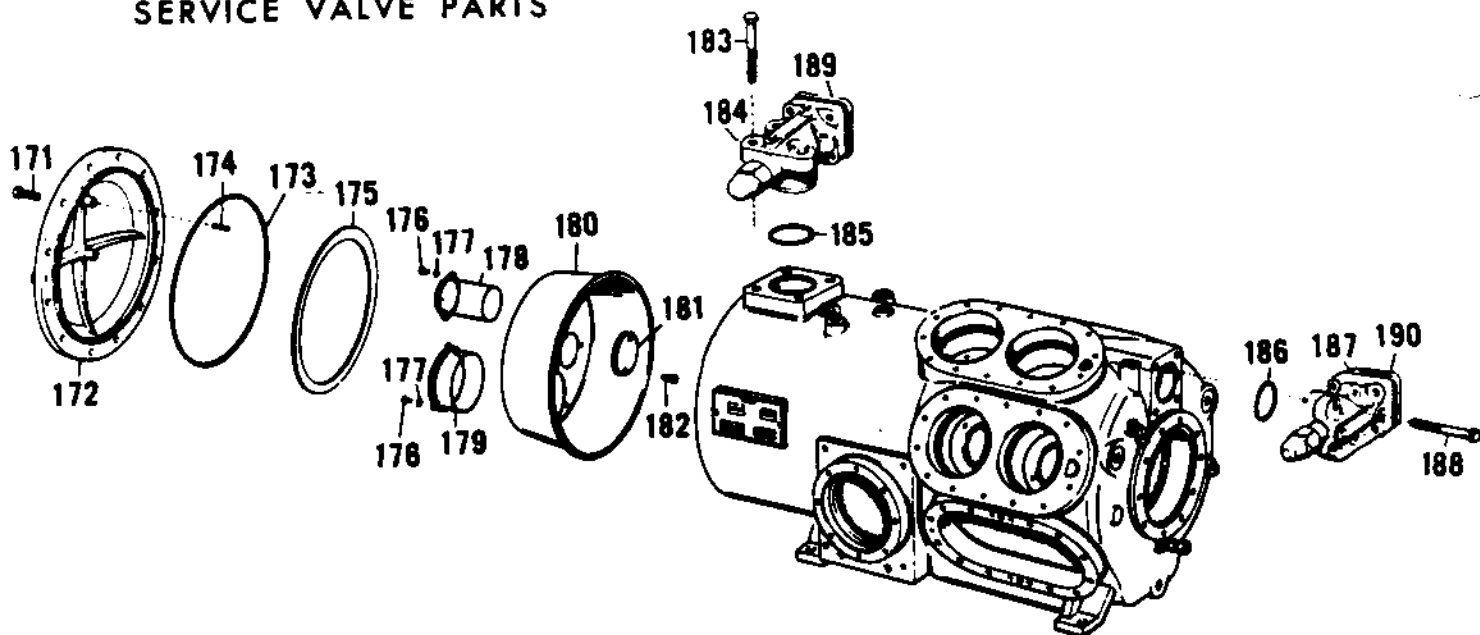
TERMINAL BOX PARTS

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUIRED		
			5 CYL.	6 CYL.	8 CYL.
151	Terminal - Hermetic -----	TER-8	3	3	3
152	Terminal - Stud -----	STU-27	****	****	
152	Terminal - Stud -----	STU-59			****
153	Box - Junction -----	BOX-95	1	1	1
154	Lockwasher, 5/16 -----	WAS-110	8	8	8
155	Screw - Cap, Hex Hd., 5/16-18 x 1/2 ----	SCR-97	8	8	8
156	"O" Ring - Terminal Plate to Housing ----	RNG-91	1	1	1
157	Plate - Locating -----	PLT-129	2	2	2
158	Plate - Terminal, 6 Holes (Single Voltage Units) -----	PLT-225	1	1	1
158	Plate - Terminal, 9 Holes (Dual Voltage Units) -----	PLT-128	1	1	1
159	Ring - Retaining -----	RNG-126	1	1	1
160	Screw - Cap, 12 Pt. Hd., 1/4-28 x 7/8 ---	SCR-200	8	8	8
161	"O" Ring - Terminal Stud to Terminal Plate -----	RNG-37	****	****	****
162	Spacer - Sealing -----	SPC-8	****	****	****
163	Washer -----	WAS-97	****	****	****
164	Nut - Hex, 1/4 x 20 -----	NUT-9	****	****	****
165	Buss Bar -----	BAR-3	1	1	1
166	Buss Bar -----	BAR-2	*****	*****	*****
167	Nut - Jam, 1/4 x 20 -----	NUT-77	6	6	6
168	Lug - Terminal, 15/16" Lg., 3/8" Lead Opening -----	LUG-9	6	6	6
169	Screw - Set, Hex Soc. Hd., 1/2-13 x 1/2--	SCR-353	6	6	6
170	Cover - Junction Box -----	COV-359	1	1	1

**** Single Voltage Units Use 6, Dual Voltage Units Use 9.

***** Single Voltage Units Use 2, Dual Voltage Units Use 4.

SERVICE VALVE PARTS



SERVICE VALVE PARTS

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	QUANTITY REQUESTED		
			5 CYL.	6 CYL.	8 CYL.
171	Screw - Cap, Hex., 7/16 x 14 x 1-1/4 -----	SCR-233	22	22	22
172	Cover - Suction -----	COV-311	1	1	1
173	"O" Ring - Suction Cover -----	RNG-163	1	1	1
174	Pin - Roll, 3/16" x 3/4 -----	PIN-7	1	1	1
175	Ring - Motor Cooling ("C" Design Sequence Only) -----	RNG-284	1	1	1
176	Screw - Round Hd., No. 10-32 x 3/8 -----	SCR-64	11	11	11
177	Lockwasher - Steel, No. 10 -----	WAS-18	11	11	11
178	Strainer - Suction Gas -----	SRA-29	3	4	4
179	Filter - Oil -----	FLR-45	1	1	1
180	Pan - Suction Strainer -----	PAN-148	1	1	1
181	Cover Plate, Suction Strainer -----	PLT-343	1		1
182	Screw - Cap, Hex Hd., 1/4"-28 x 1/2" -----	SCR-177	1	1	1
183	Screw - Cap, Hex Hd., 5/8-11 x 4 -----	SCR-317	4	4	4
184	Valve - Suction Service, 2-1/8" O.D.S. ---	VAL-9A	1		
184	Valve - Suction Service, 2-5/8" O.D.S. ---	VAL-35A		1	1
185	Gasket - Suction Service Valve -----	GKT-15	1	1	1
186	Gasket - Discharge Service Valve -----	GKT-14	1	1	1
187	Valve - Discharge Service, 1-5/8" O.D.S.---	VAL-8A	1	1	1
188	Screw - Cap, Hex Hd., 1/2-13 x 3-1/4 -----	SCR-13	4	4	4
189	Gasket - Adapter, Suction Service Valve (2-1/8" O.D.S. Valve) -----	GKT-830	1		
189	Gasket - Adapter, Suction Service Valve (2-5/8" O.D.S. Valve) -----	GKT-14		1	1
190	Gasket - Adapter, Discharge Service Valve (1-5/8" O.D.S. Valve) -----	GKT-13	1	1	1

Δ Only valve assemblies are available from Trane. Component parts for valves must be ordered direct from valve manufacturer.