

O5D/O5G COMPRESSOR

SERVICE PARTS LIST MODELS O5D and O5G COMPRESSOR

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INTRODUCTION

This parts list identifies service replacement parts for the Models 05D and 05G Compressors listed in the model chart below.

MODEL CHART

MODEL	PART NO.	REMARKS
05DA	17-50001	New compressor, without unloaders
05DC	17-22000	New compressor, with unloaders
05DX	17-55000	Service replacement compressor, rebuilt (less service valves), for use with or without unloaders
05GA	18-00034	New aluminum compressor, without unloaders
05GC	18-00034-01	New aluminum compressor, with electric unloaders
05GE	18-00034-02	New aluminum compressor, with pressure unloaders
05GX	17-44000	Service replacement compressor (less service valves) for use with or without unloaders

ORDERING INSTRUCTIONS

All orders and inquiries for parts must include: Unit Serial Number, part no., description of part as shown on list and quantity required. Address all correspondence for parts to the following address: CARRIER TRANSICOLD COMPANY, Service Parts Department, TR-20, P.O. Box 4805, Syracuse, New York 13221.

GENERAL NOTES

To find replacement parts, refer to the unit locational group on page 3. Determine major group in which replacement part is located, consult table of contents, and turn to the appropriate page for the illustrated breakdown of replacement parts. The following letter designations are used to classify parts throughout this list.

NS Not Shown in the illustration.

NSS Not Sold Separately - order next higher assembly or kit.

NSA Non-Stock Assembly - order components listed under the assembly.

PL Purchase Locally.

NSI Non-Stock Item - may be available on special order.

NOTE

Compressors prior to 11/72 used Controls Company of America unloader valve bodies which are no longer available. Refer to the following chart for current information.

Unloader Valve Bodies		Coils		
Obsolete	Current	Old	New	Volt
17-00070	17-40407	17-00070-01	16-00149	115
17-40441	17-40407	22-01043	22-01093	12

When ordering new Capacity Control Valve Bodies (p/n 17-40407) a new coil (22-01093 or 16-00149) must be used. Old style coils are available as a service replacement part for the Controls Company of America valve bodies only and may not be used with a new style body (17-40407).

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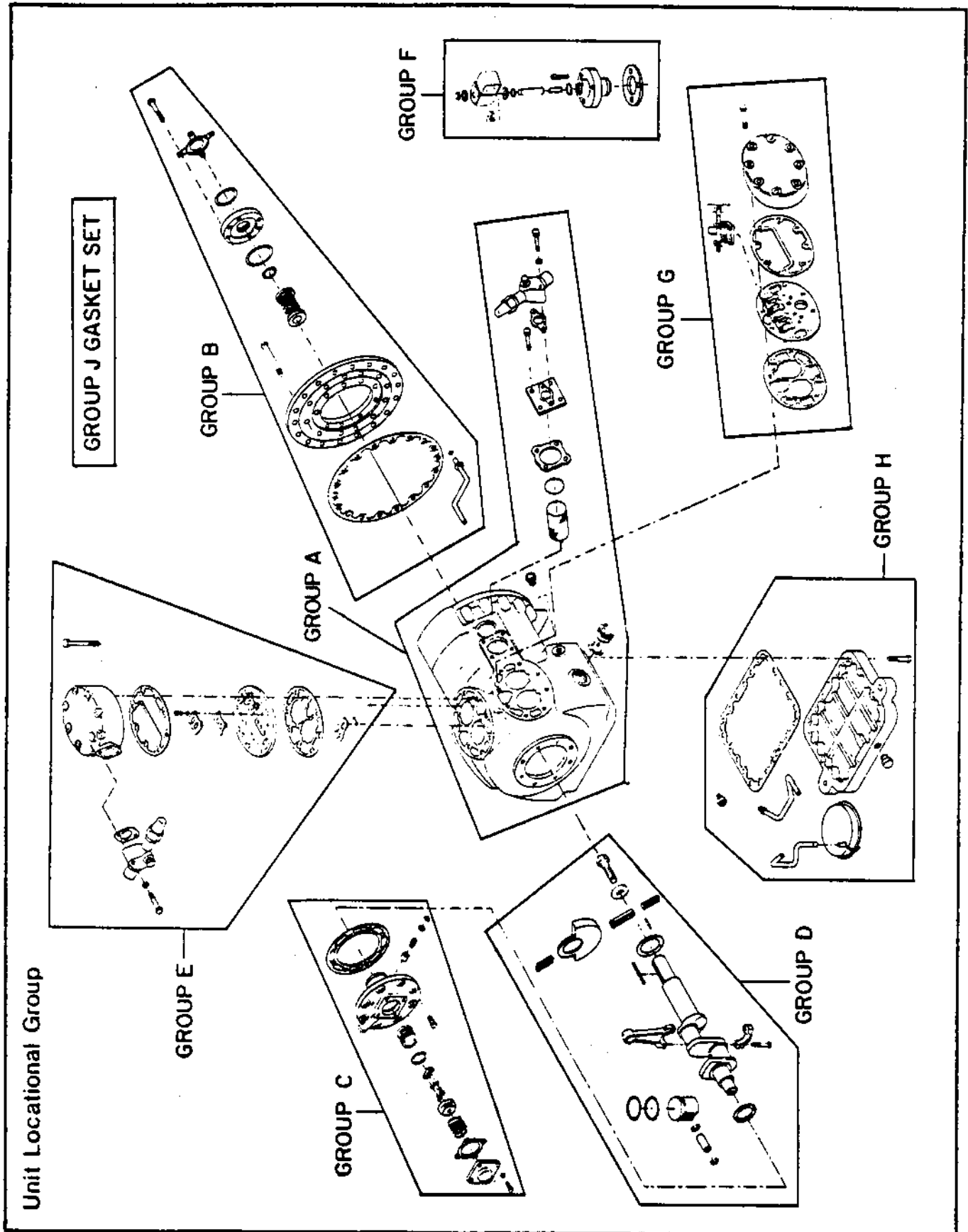
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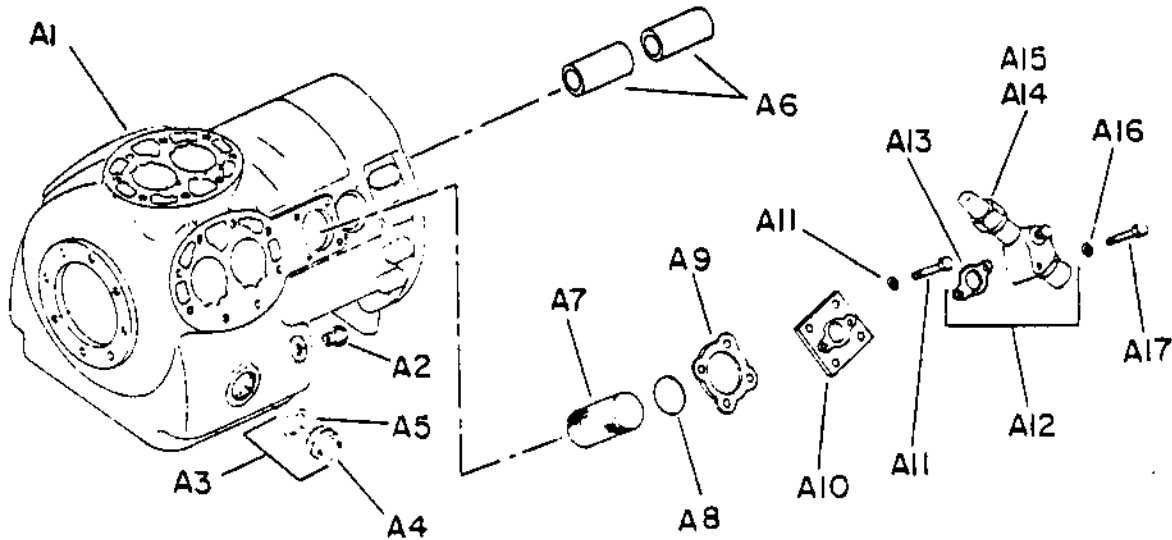
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ITEM	PART NO.	DESCRIPTION	QTY	
			05D	05G

Group A - Crankcase with Suction Service Valve



A1	NSA	Crankcase	1	1
A2	PL	Pipe plug, 1/4 - 18 NPT	3	3
A3	17-10218	Sight glass, oil level - includes:	2	2
A4	NSS	Sight glass	2	2
A5	17-10218-02	Gasket, sight glass	2	2
A6	17-40025	Bearing, crank end (requires line boring)	2	-
A7	17-40314	Strainer, suction	1	-
A7	17-44005	Strainer, suction	-	1
A8	17-40313	Ring, retaining suction strainer	1	-
A9	17-40075-12	Gasket, suction valve adapter	1	-
A10	17-40400	Adapter,	1	-
A11	17-40337	Capscrew, socket head, 1/4-28 x 1"	4	-
A12	14-01042-03	Valve, suction service, 1-1/8" ODF - includes:	1	-
A13	17-10811	Gasket, suction valve	1	-
A14	17-10812	Cap, seal	1	-
A15	17-40010	Gasket, seal cap	1	-
A16	17-40013	Gasket, capscrew, 5/16	2	-
A17	17-40012	Capscrew, hex head, 5/16 - 18 x 2" - SAE Grade 5	2	-
A12	17-40002	Valve, suction service, 1-1/8" ODF - includes:	-	1
A13	17-40005	Gasket, suction valve	-	1
A14	17-10806	Cap, seal	-	1
A15	17-40010	Gasket, seal cap	-	1
A16	17-40007	Gasket, capscrew, 1/2	-	4
A17	17-40006	Capscrew, hex head, 1/2 - 13 x 2-1/2 - SAE Grade 5	-	4

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Group B - Shaft End Group				
B1	17-40316	O-ring, oil supply tube	1	-
B2	17-40315	Tube, oil supply	1	-
B3	17-40029	Gasket, shaft end cover	1	-
B3	17-44001	Gasket, shaft end cover	-	1
B4	17-40310	Flange, shaft end (NSI)	1	-
B4	17-44002	Flange, shaft end (NSI)	-	1
B5	17-40338	Capscrew, 7/16 - 14 x 1-1/2 SAE Grade 5	18	21
B6	17-40399	Seal assembly - includes:	1	-
B7	NSS	Seal assembly shaft	1	-
B8	17-55019	Washer, carbon	1	-
B9	17-40319	Gasket, seal cover	1	-
B10	NSS	Seal cover, shaft	1	-
B6	17-44003	Seal assembly - includes:	-	1
B7	NSS	Seal assembly, shaft	-	1
B8	17-55019	Washer, carbon	-	1
B9	17-44004	Gasket, seal cover (starting with S/N G702827)	-	1
B10	NSS	Seal cover, shaft (starting with S/N G702827)	-	1
B6A	17-44012	Shaft seal cover pkg (prior to S/N G702827) - includes:	-	1
B9	17-44013	Gasket, seal cover	-	1
B10	NSS	Seal cover, shaft	-	1
B11	17-40399-02	Dust seal assembly - includes:	1	-
B12	NSS	Retainer	1	-
B13	17-40399-03	Ring, felt	1	-
B14	17-10308	Capscrew, seal cover 3/8-16 x 1-1/4 SAE Grade 5	8	-
B14	17-44009	Capscrew, seal cover 3/8-16 x 1-1/2 SAE Grade 5	-	6

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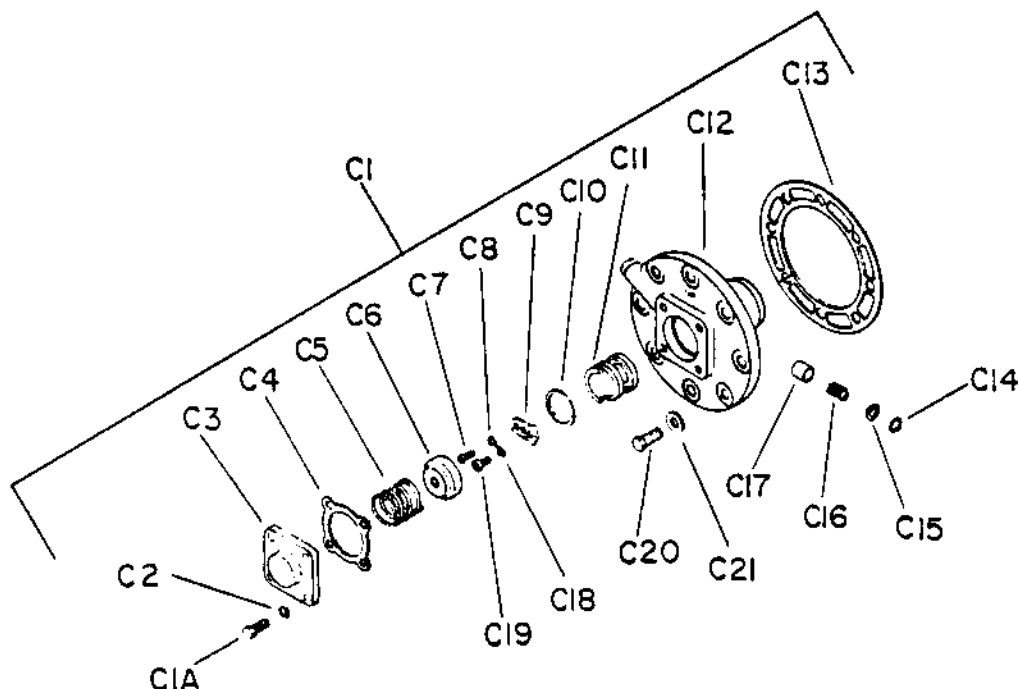
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Group C - Bearing Head and Oil Pump Package



C1	17-40200	Bearing head, oil pump assembly - includes:		
C1A	17-40202	Cap screw, hex head, 3/8-16 x 1/2 SAE Grade 5	4	4
C2	17-40019	Gasket, cap screw, 3/8	4	4
C3	17-40076	Cover, oil pump	1	1
C4	17-40075	Gasket, oil pump cover	1	1
C5	17-40069	Spring, oil feed vane	1	1
C6	17-40070	Guide, oil feed vane	1	1
C7	17-40072	Cap screw, socket head, #10-32x1/2 SAE Grade B7		
C8	PL	Lockwasher, #10	1	1
C9	17-40071	Drive segment, oil pump	1	1
C10	17-40068	Retaining ring, rotor	1	1
C11	17-40067	Pump, rotor	1	1
C12	NSS	Head, w/bearing, pump end bearing	1	1
C13	17-40078	Gasket, bearing head	1	1
C14	17-40066	Ring, plunger, retaining	2	2
C15	17-40065	Spring, guide, plunger	2	2
C16	17-40064	Plunger, spring	2	2
C17	17-40063	Plunger, Vane, pump	2	2
C18	PL	Lockwasher, 1/4	1	1
C19	17-40074	Cap screw, socket head, 1/4 - 28x5/8-SAE Grade B7	1	1
C20	17-40037	Cap screw, hex head, 3/8 - 16 x 1" - SAE Grade 5	8	-
C20	17-44009	Cap screw, hex head, 3/8 - 16x1-1/2 - SAE Grade 5	-	8
C21	17-40019	Gasket, cap screw 3/8	8	8

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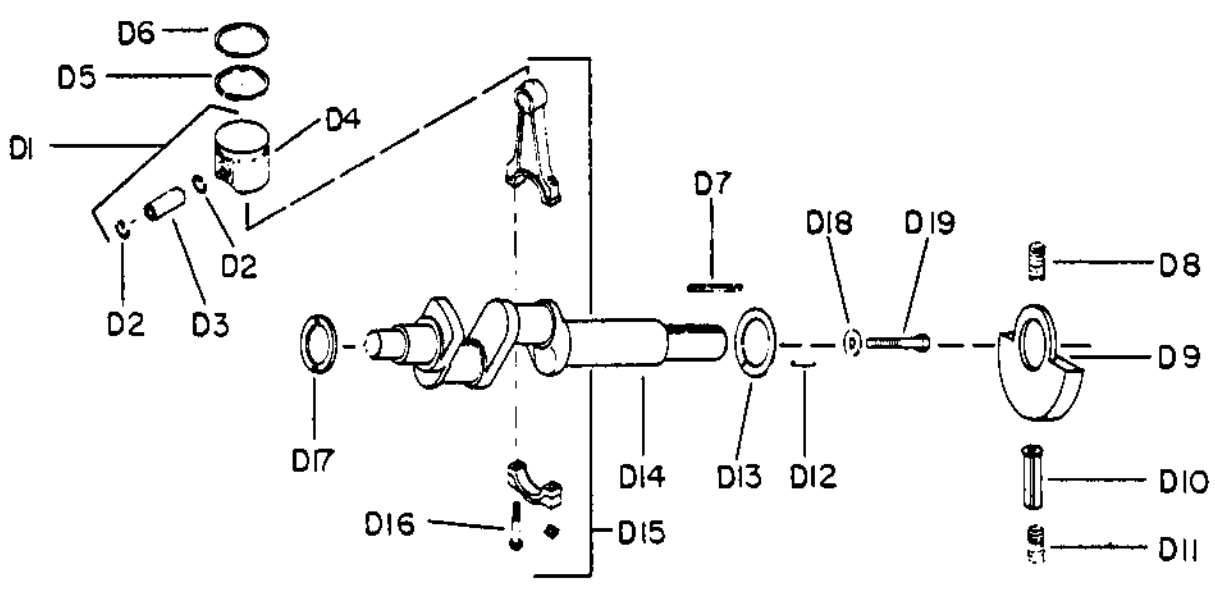
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Group D - Crankshaft, Rod and Piston Group				
				
D1	17-55011	Piston & pin assembly - includes:	6	6
D2	17-40053	Retainer, piston pin	2	2
D3	NSS	Pin, piston	1	1
D4	NSS	Piston	1	1
D5	17-40054	Ring, oil	6	6
D6	17-40055	Ring, compression	6	6
D7	17-40324	Key, crankshaft 1/4 x 1/4 x 1-1/2	1	1
D8	17-40323	Screw, set 3/8 - 16 x 5/8	1	-
D9	17-40321	Counterweight	1	-
D10	17-40322	Pin roll 1/4 x 1-3/4 lg	1	-
D11	17-40331	Screw, set 3/8 - 16 x 5/16 (hollow)	1	-
D12	17-40048	Pin, spiral, 5/32 x 5/8	3	3
D13	17-40050	Thrustwasher, seal end	1	-
D13	17-44008	Thrustwasher, seal end	-	1
D14	17-40326	Crankshaft assembly (05D only) - includes:	1	-
NS	17-40317	Expansion plug	2	-
NS	17-40327	Pipe plug, 1/16 (Special)	1	-
D14	17-44010	Crankshaft assembly (05G only) - includes:	-	1
NS	17-40317	Expansion plug	-	2
NS	PL	Screw, set, 1/4-28 x 1/2	-	1
D15	17-40056	Connecting rod & cap assembly - includes:	6	6
NS	17-40057	Dowel pin	2	2
D16	17-55008	Capscrew - special (Epoxy coated)	2	2
D17	17-55009	Thrustwasher, pump end	1	1
D18	34-00616	Washer, 13/32 I.D. x 1-1/2 O.D. x 3/16 thick	1	1
D19	34-00613-07	Capscrew, hex head, 3/8 - 24 UNF x 7/8 SAE Grade 8	1	1

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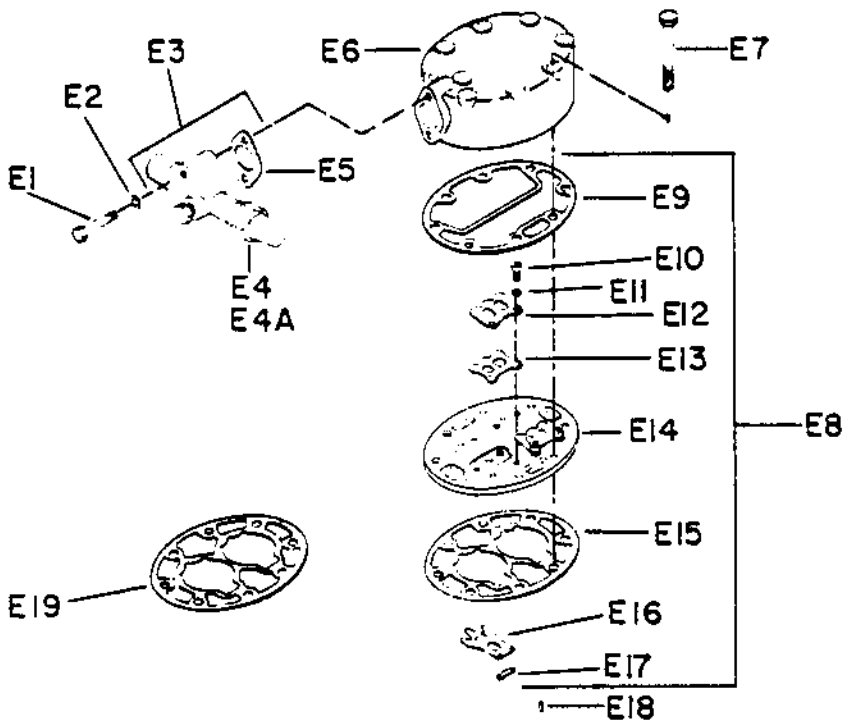
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ITEM	PART NO.	DESCRIPTION	QTY	
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Group E - Center Cylinder Bank with Discharge Service Valve				
				
E1	17-40012	Capscrew, hex head, 5/16 - 18 x 2 - SAE Grade 5	2	2
E2	17-40013	Gasket, capscrew, 5/16	2	2
E3	14-01042	Discharge service valve 7/8 ODF - includes:	1	1
E3	14-01042-03	Discharge service valve, 1-1/8" ODF - Includes:	1	-
E4	17-10812	Seal cap	1	1
E4A	17-40010	Gasket, seal cap	1	1
E5	17-10811	Gasket, discharge valve	1	1
E6	17-40016	Cylinder head - center bank	1	1
E7	17-40018	Capscrew, hex head, 3/8-16 x 3 - SAE Grade 5	8	-
E7	17-44006	Capscrew, hex head, 3/8-16 x 3-1/2 - SAE Grade 5	-	8
E8	17-55007	Valve plate assembly - center bank - includes:	1	1
E9	17-55006	Gasket, cylinder head	1	1
E10	17-40081	Capscrew, socket head, 1/4-28 x 3/8	4	4
E11	17-10715	Lockwasher, 1/4	4	4
E12	17-40087	Discharge valve stop	2	2
E13	17-40086	Discharge Valve	2	2
E14	NSS	Valve plate	1	1
E15	17-55002	Gasket, valve plate (05D only)	1	-
E16	17-40082	Suction valve	2	2
E17	17-40083-12	Suction valve position spring	2	2
E18	17-40057	Dowel, Valve plate	4	4
E19	17-44007	Gasket, valve plate (05G only)	-	1

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Group F - Capacity Control Section				
F1	17-40104-07	Gasket (unloader mounting)	1	1
F2	17-40407	Unloader valve body assy (Alco) - Refer to Note on Page 2 - Includes:	AR	AR
F2A	NSS	Valve body assembly	AR	AR
F3	17-55010	Piston ring	AR	AR
F4	{ NSS }	Gasket	1	1
F5		Plunger assembly	1	1
F6		Plunger spring	1	1
F7		Enclosing tube	1	1
F8		"O"-ring	1	1
F9		Enclosing tube collar	1	1
F10	17-40408-02	Snap cap	1	1
F11	16-00143	Repair kit for valve body, items F4 thru F10 - Includes:	AR	AR
F11A	NSS	Nut	1	1
F12	16-00149	Unloader valve coil, 115 v-ac - Includes:	AR	AR
F12	22-01093-01	Unloader valve coil, 24 v-ac - Includes:	AR	AR
F12	22-01093	Unloader valve coil, 12 v-dc - Includes:	AR	AR
F10	17-40408-02	Snap cap	1	1
F13	NSS	Voltage plate	1	1
F14	17-40111	Capscrew socket head, 1/4-28 x 3/4	3	3
F15	17-40104-20	Gasket, cap 1/4	3	3
F16	17-55018	Unloader assy (suction pressure activated) - Includes:	1	1
F17	17-55010	Piston ring	1	1
F18	17-55021	Unloader power assy (suction pressure activated)	1	1

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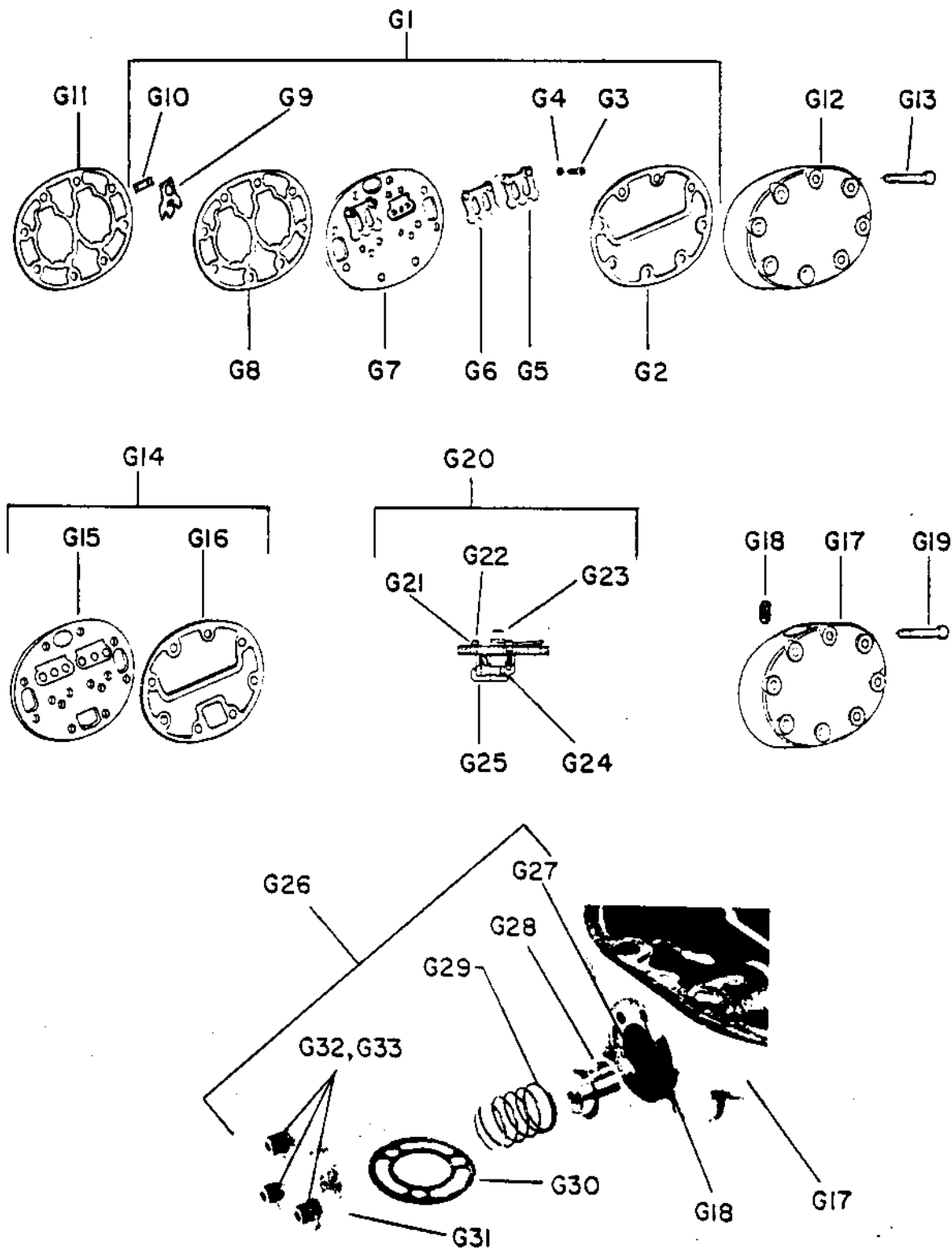
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Group G - Right and Left Cylinder Bank, Gasket and Plate Assembly



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G1	17-55003	Valve plate assembly - right or left banks (no unloaders) includes:	2	2
G2	17-55001	Gasket, cylinder head	1	1
G3	17-40081	Capscrew, socket head, 1/4 - 28 x 3/8	4	4
G4	17-10715	Lockwasher, 1/4	4	4
G5	17-40087	Valve, discharge stop	2	2
G6	17-40086	Valve, discharge	2	2
G7	NSS	Valve plate	1	1
G8	17-55002	Gasket, valve plate (05D only)	1	-
G9	17-40082	Valve, suction	2	2
G10	17-40083-12	Valve, suction position spring	2	2
G11	17-44007	Gasket, valve plate (05G only)	-	1
G12	17-40015	Cylinder head - right or left banks (no unloaders)	2	2
G13	17-40017	Capscrew, hex head, 3/8-16 x 2-1/2 - SAE Grade 5 (no unloaders)	8	-
G13	17-40018	Capscrew, hex head, 3/8-16 x 3 - SAE Grade 5 (no unloaders)	-	8
G14	17-55004	Valve plate assembly - right or left bank (unloader) - includes:	2	2
G15	NSS	Valve plate	1	1
G8	17-55002	Gasket, valve plate (05D only)	1	-
G16	15-55005	Gasket, cylinder head	1	1
G3	17-40081	Capscrew, socket head, 1/4 - 28 x 3/8	4	4
G4	17-10715	Lockwasher, 1/4	4	4
G5	17-40087	Valve, discharge stop	2	2
G6	17-40086	Valve, discharge	2	2
G9	17-40082	Valve, suction	2	2
G10	17-40083-12	Spring, suction valve position	2	2
G17	17-40104-05	Cylinder head (unloaders)	2	2
G18	17-40108	Strainer	1	1
G19	17-40018	Capscrew, hex head, 3/8-16 x 3 - SAE Grade 5 (unloader cylinder head)	8	-
G19	17-44006	Capscrew, hex head, 3/8-16 x 3-1/2 - SAE Grade 5 (unloader cylinder head)	-	8
G20	17-55012	Unloader check valve assembly - includes:	2	2
G21	{ NSS }	Lockwasher #6	2	2
G22		Screw, round head, #6-32 x 1/2 lg	2	2
G23		Piston, check valve	1	1
G24		Spring, check valve	1	1
G25		Body, check valve	1	1
G26	17-55013	Unloader plug - Includes:	2	2
G27	17-55014	Seat ring	1	1
G28	NSS	Plug	1	1
G29	NSS	Spring	1	1
G18	17-40108	Strainer assembly	1	1
G30	17-40104-07	Gasket, steel	1	1
G31	NSS	Cover plate	1	1
G32	17-40104-20	Gasket cap 1/4	3	3
G33	17-10721	Capscrew socket head 1/4-28 x 1" lg	3	3

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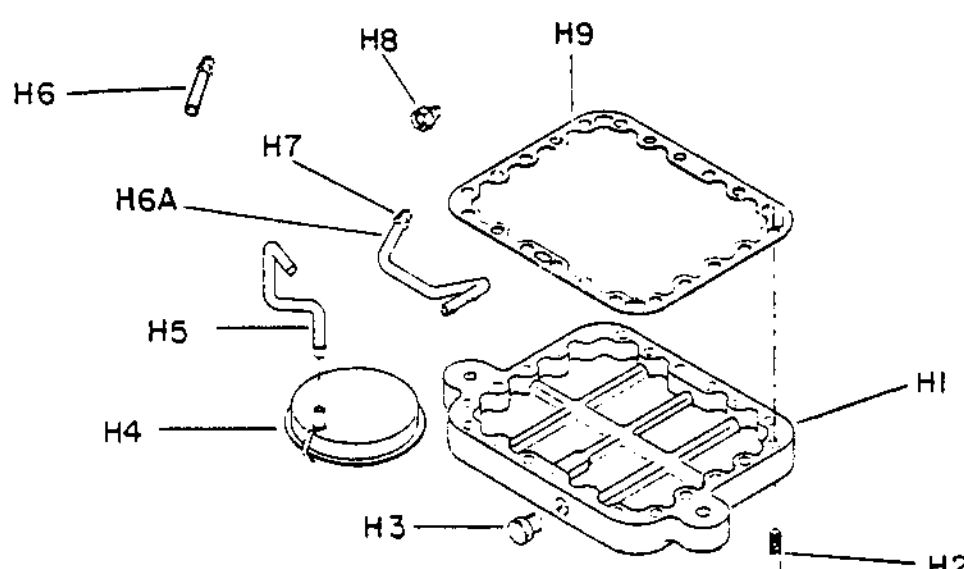
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Group H - Compressor Base Group				
				
H1	17-40032	Plate, bottom	1	1
H2	17-40034	Capscrew, hex head, 3/8-16 x 2 - SAE Grade 5	22	-
H2	17-40017	Capscrew, hex head, 3/8-16 x 2-1/2 - SAE Grade 5	-	22
H3	PL	Pipe plug, 1/4-18 NPT	1	1
H4	17-40020	Oil filter screen assembly	1	1
H5	17-40021	Tube, oil suction	1	1
H6	17-44011	Oil relief valve	-	1
H6A	17-40022	Oil relief valve - includes:	1	-
H7	17-40023	Compression nut	1	-
H8	17-40320	Oil return check valve assembly	1	-
H9	17-40033	Gasket, bottom plate	1	1
Group J - Gasket Set				
NS	17-55020	Gasket set, compressor assembly Does not include valve plate gaskets or seal cover gasket - refer to Groups B, E & G	1	1

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