

YORK

MODEL J HERMETIC COMPRESSORS

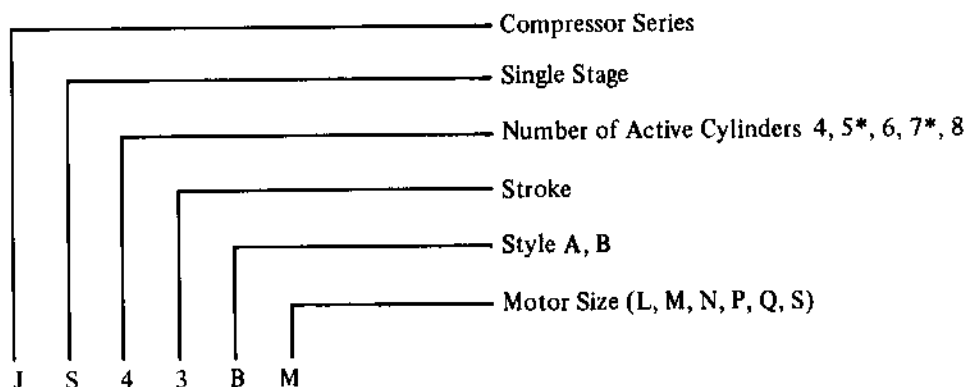
RENEWAL PARTS

Supersedes: Form 180.23-RP1 (Coded 1272) &
Form 180.23-RP1 (Supl. 1) (Coded 576)

1079 Form 180.23-RP1

MODELS JS43, JS53, JS63, JS73, JS83 (STYLES A & B)

NOMENCLATURE



*The 5 and 7 cylinder compressors each have one cylinder which is permanently unloaded. The unloaded cylinder does not contain suction valve, suction valve springs, unloader sleeve, unloader device or lift pins.

ORDERING INSTRUCTIONS

1. Locate compressor model number from data plate on pump end of compressor.
2. When ordering renewal parts, identify each part by part number obtained from Tables 1 thru 12. Also include required quantity and compressor model number.
3. Read carefully any notes accompanying tables.
4. Δ – Indicates addition or revision since previous printing.

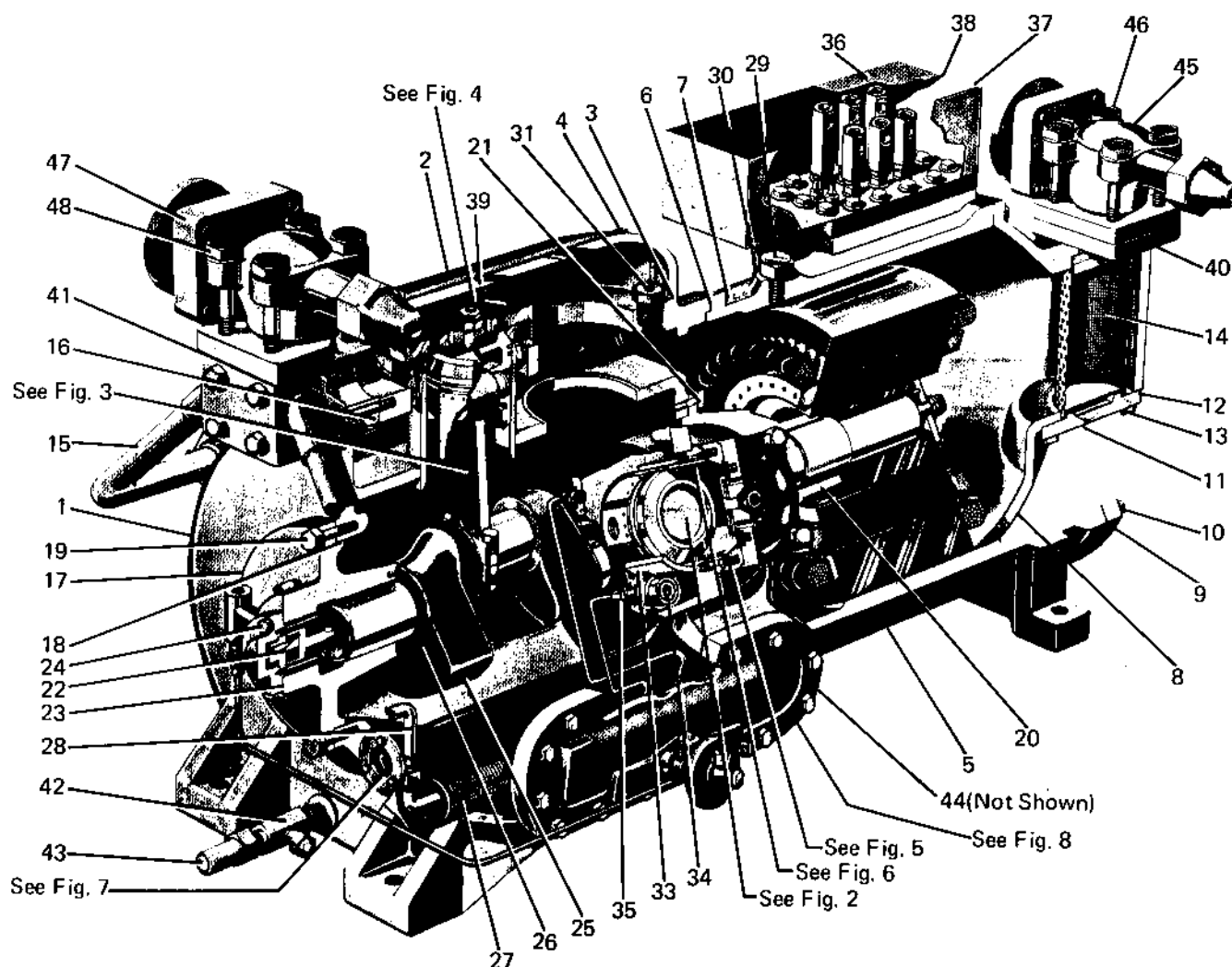


FIG. 1— COMPRESSOR CUT-A-WAY

TABLE 1

ITEM NO.	DESCRIPTION	COMPRESSOR MODEL				
		JS43	JS53	JS63	JS73	JS83
1	Housing, Compressor	064-23032	064-23029	064-23029	064-26505	064-26505
2	Head, Compressor No. Req'd	064-21612 2	064-21612 3	064-21612 3	064-21612 4	064-21612 4
3	Gasket, Top Head No. Req'd	064-21701 2	064-21701 3	064-21701 3	064-21701 4	064-21701 4
4	Screw, Top Head 7/16-14x3-3/4 No. Req'd	021-12704 32	021-12704 48	021-12704 48	021-12704 64	021-12704 64
5	Housing, Motor	064-21595				
6	Gasket, Motor Housing to Compressor	064-21699				
7	Screw, Motor Housing 3/8-16X1-1/2 (32 req'd)	021-01497				
8	Cover, Motor Housing	064-23062	064-23062	064-23062	064-21625	064-21625
9	Gasket, Motor Housing Cover to Motor Housing	064-21706				
Δ 10	Screw, Motor Housing Cover 3/8-16X1-1/2 (32 req'd)	021-01497				

TABLE 1— (CONTINUED)

ITEM NO.	DESCRIPTION	COMPRESSOR MODEL				
		JS43	JS53	JS63	JS73	JS83
11	Cover, Suction Strainer	064-28860				
12	Gasket, Suction Strainer Cover	064-30111				
13	Screw, Suction Strainer Cover 3/8-16X1-1/8 (6 Req'd)	021-01483				
14	Strainer, Suction	029-13435				
15	Manifold, Discharge	364-23147	364-23064	364-23064	364-21709	364-21709
16	Gasket, Discharge Manifold No. Req'd	064-21838 2	064-21838 3	064-21838 3	064-21838 5	064-21838 5
17	Head, Bearing Assembly, Pump End Includes:	364-31878				
17A	Head, Bearing	064-21639				
17B	Bearing	029-11097				
17C	Pin, Roll	029-05395				
17D	Cap, Relief Valve	065-16729				
17E	Gasket, Relief Valve	065-21657				
17F	Plunger, Relief Valve	065-01331				
Δ 17G	Spring, Relief Valve	029-16893				
18	Gasket, Bearing Head, Pump End .10" Thick	064-21702				
	.015" Thick	064-21703				
19	Screw, Bearing Head, Pump End 7/16-14X1-1/2" (10 Req'd)	021-10387				
20	Head, Bearing Assembly, Motor End Includes:	364-31877				
20A	Head, Bearing	064-21666				
20B	Bearing (2 Req'd)	029-11097				
20C	Pin, Roll	029-05395				
Δ 20D	Cap, Relief Valve	065-06394				
20E	Gasket, Relief Valve	065-21657				
20F	Plunger, Relief Valve	065-01331				
20G	Spring, Relief Valve	029-06143				
21	Screw, Bearing Head, Motor End 7/16-14X1-1/4" (12 Req'd)	021-01538				
Δ 22	Pump, Oil (Complete)	026-20437				
23	Gasket, Oil Pump	070-07166				
24	Screw, Oil Pump - 5/16-18X1 (5 Req'd)	021-01433				
25	Crankshaft Assembly	364-36597	364-36598	364-36598	364-36599	364-36599
25A	Crankshaft	364-31868	364-31869	364-31869	364-31870	364-31870
25B	Key, Motor	064-26560				
25C	Washer, Shaft	364-21836				
25D	Roll Pin, Shaft	029-04545				
25E	Lockwasher	021-05295				
25F	Cap Screw 5/8-11X2"	021-01630				
26	Collar, Thrust (2-Req'd)	029-11098				
27	Strainer, Oil (Includes 27A)	364-21759				
27A	Strainer Screen	029-13748				
28	Connection, Oil Strainer to Housing	364-21848				
29	Plug, Stator Locking	064-21737				
30	Gasket, Stator Locking Plug	065-19004				
Δ 31	Valve, Relief	022-03871				
Δ	Gasket, Cylinder Sleeve		NO LONGER USED			
33	Sleeve, Unloader No. Req'd	064-21895 3	064-21895 3	064-21895 4	064-21895 5	064-21895 6
34	Device, Unloader No. Req'd	364-21681 3	364-21681 3	364-21681 4	364-21681 5	364-21681 6

(CONTINUED ON NEXT PAGE)

TABLE 1— (CONTINUED)

ITEM NO.	DESCRIPTION	COMPRESSOR MODEL				
		JS43	JS53	JS63	JS73	JS83
35	Union, Unloader Device 3/16" Tube X 3/8-24 UNF No. Req'd	023-05839	023-05839	023-05839	023-05839	023-05839
35A*	Union Cap No. Req'd	3 —	4 064-30612 1	4 —	6 064-30612 1	6 —
36	Cover, Terminal Box	064-26798				
37	Bottom, Terminal Box	064-26797				
Δ 38	Screw, Terminal Box Cover (6 Req'd)	064-09779				
Δ 39	Screw, Discharge Valve Cage 3/8"-16X2-1/2" No. Req'd	021-10037				
		16	24	24	32	32
40	Gasket, Suction Valve to Suction Strainer	064-22018			064-22017	064-22017
41	Gasket, Discharge Valve to Discharge Manifold	028-00864				
42	Valve, Oil Charging	022-01582				
43	Cap, Oil Charging Valve	023-00977				
44	Heater, Crankcase (350 watt, 120 volt) (350 watt, 240 volt)	025-10462 025-13553				
45	Valve, Suction Stop	022-02844	022-02844	022-02844	022-02845	022-02845
46	Screw, Cap-Suction Stop Valve (4 Req'd)	021-10839				
47	Valve, Discharge Stop	022-01394	022-01394	022-01394	022-02844	022-02844
Δ 48	Screw, Cap-Discharge Stop Valve (4 Req'd)	021-10203	021-11704	021-11704	021-10839	021-10839

*Not Shown

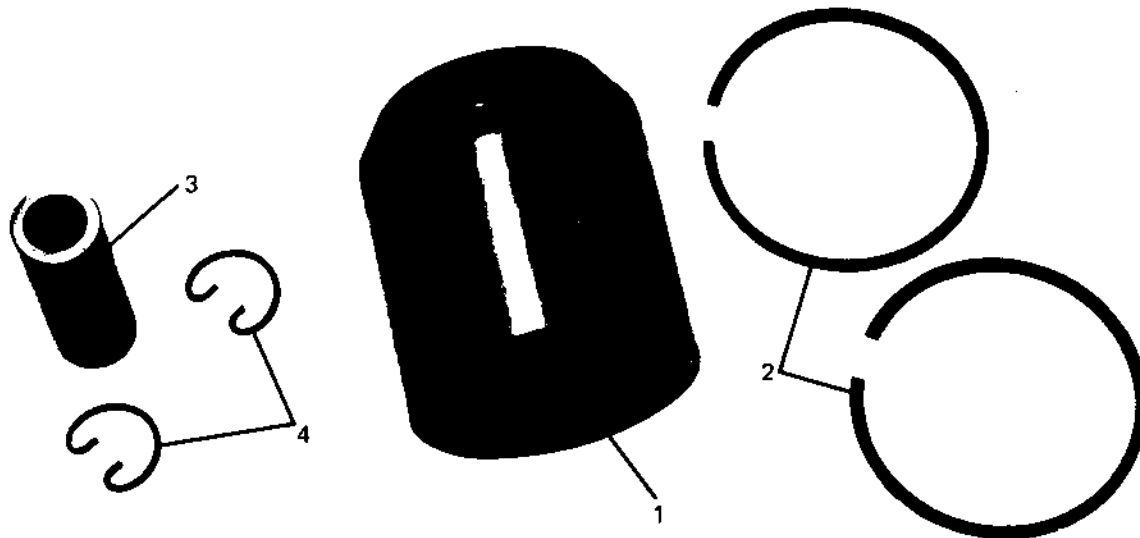


TABLE 2

ITEM NO.	DESCRIPTION	PART NO.
	Piston Assembly - Includes:	364-36603
1	Piston, Bare	064-21653
Δ 2	Ring, Piston (2-Req'd)	029-15175
3	Pin, Piston	029-13090
4	Retainer (2-Req'd)	029-13091

FIG. 2—PISTON ASSEMBLY

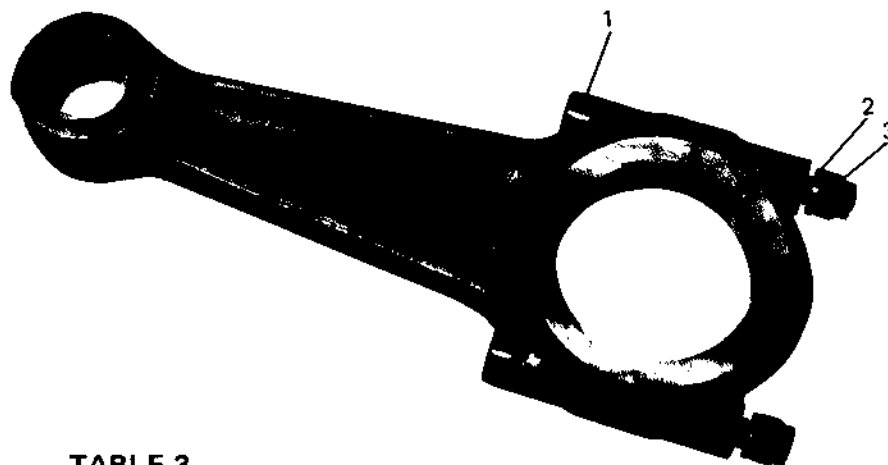


TABLE 3

ITEM NO.	DESCRIPTION	PART NO.
	Rod, Connecting (Assembly)	364-21611
1	Bolt (2-Req'd)	064-22949
2	Washer (2-Req'd)	064-00363
3	Nut (2-Req'd)	021-09932

FIG. 3—CONNECTING ROD

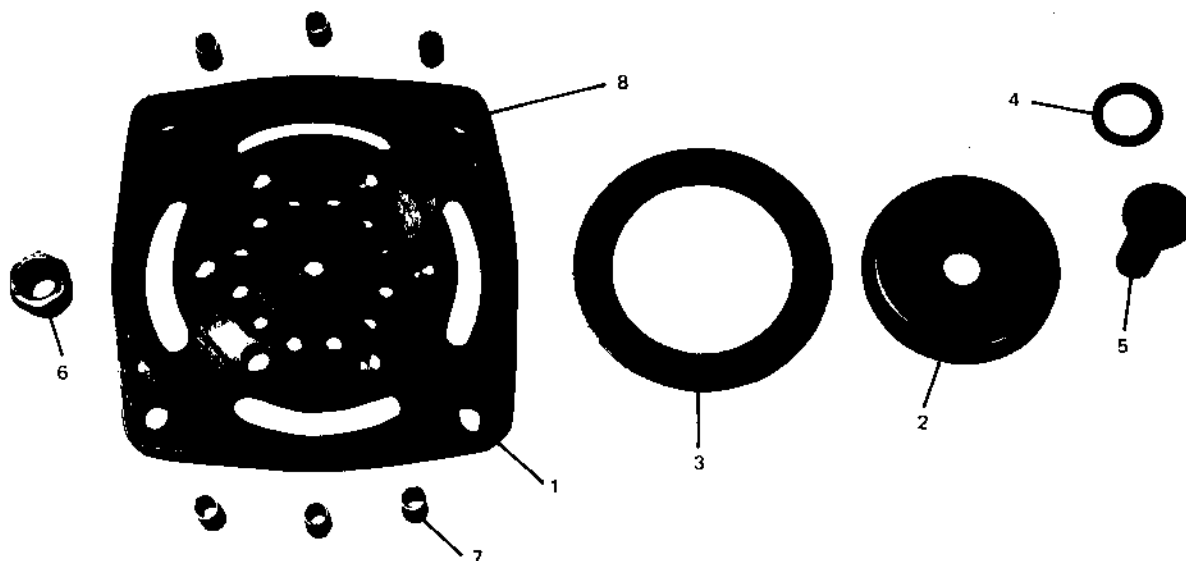


TABLE 4 Δ

ITEM NO.	DESCRIPTION	PART NO.
	Cage, Discharge Valve Assy. Includes items 1—7.	364-42306
1	Cage, Disch. Valve	*
2	Plate, inner Valve	064-21754
3	Valve, Discharge	064-43012
4	Gasket	028-08386
5	Screw	021-13856
6	Nut, Self-Locking	021-09932
7	Spring (6 Req'd Per Valve Ass'y)	029-13248
8**	Bolt 3/8"x2-1/2" (4 per Valve)	021-10037

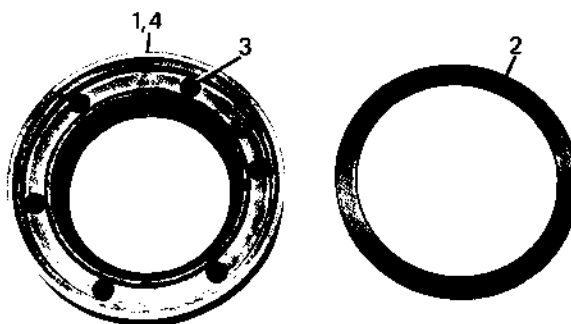
*Discharge Valve Cage, Item 1, not available separately.
Order assembly #364-42306.

**When installing new valve cage assembly always order 4 of item 8 for each valve cage.

Δ FIG. 4 — DISCHARGE VALVE CAGE ASSEMBLY

TABLE 5 Δ

ITEM NO.	DESCRIPTION	PART NO.
	Cage, Suction Valve Ass'y	364-42718
	Includes:	
1	Plate, Valve	064-42716
2	Valve, Suction	064-43011
3	Spring (6 Req'd Per Valve Ass'y)	029-13813
4	Plate, Suction Valve (For Permanently Unloaded Cylinder)	064-42716



Δ FIG. 5 — SUCTION VALVE PLATE ASSEMBLY

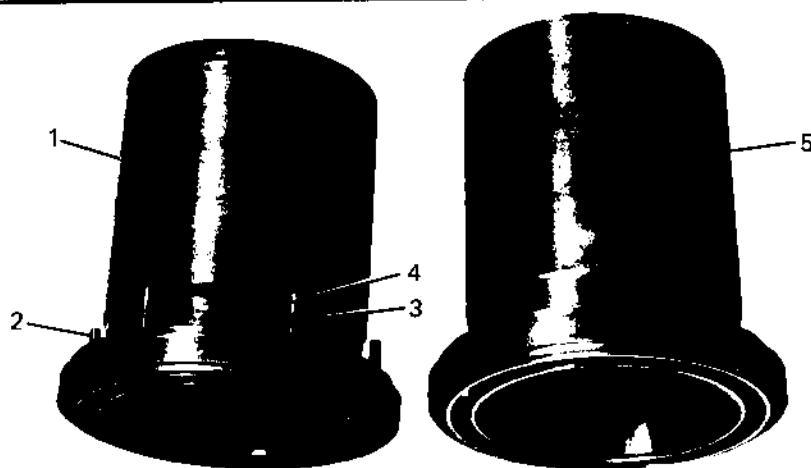


TABLE 6

ITEM NO.	DESCRIPTION	PART NO.				
		COMPRESSOR MODEL				
		JS43	JS53	JS63	JS73	JS83
	Sleeve, Cylinder Assembly, Unloading	364-31885				
	No. Req'd	3	3	4	5	6
	Includes:					
1	Steve, Cyl. Bare	064-21667				
2	Pin, Lift (6-Req'd) Per Cyl Ass'y)	029-12941				
3	Spring (6-Req'd Per Cyl Ass'y)	029-13487				
4	Ring, Retainer (12 Req'd Per Cyl Ass'y)	029-09016				
5	Sleeve, Cylinder, Non-Unloading	064-21667				
	No. Req'd	1	3	2	3	2

FIG. 6—CYLINDER SLEEVE ASSEMBLY

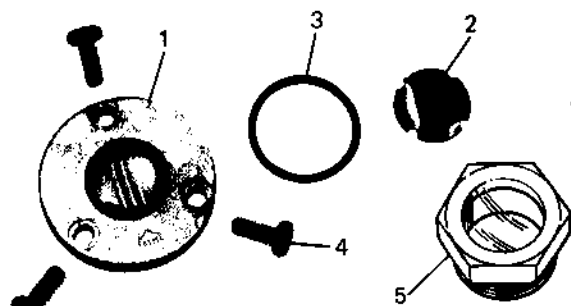


FIG. 7—OIL SIGHT GLASS

TABLE 7

ITEM NO.	DESCRIPTION	PART NO.
1	Sight Glass, Oil	026-10797
2	Reflector, Sight Glass	064-25874
3	O-Ring, Sight Glass	028-06791
4	Screw, Sight Glass (3 Req'd)	021-01372
5	Sight Glass, Plug Type	026-17581

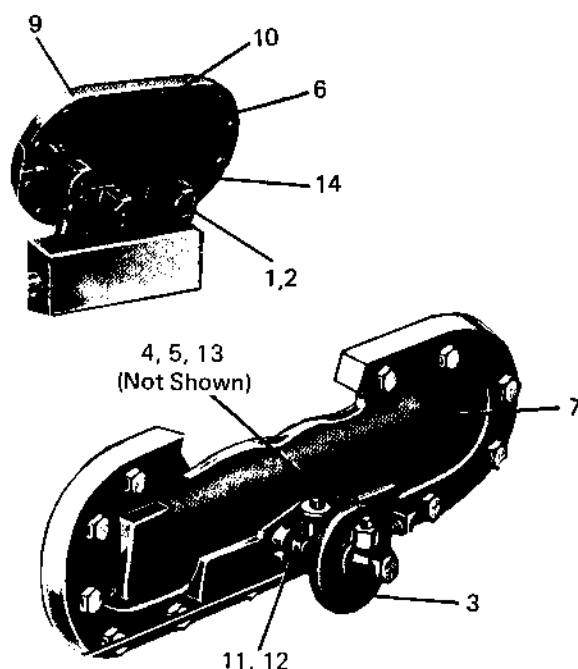


FIG. 8—CAPACITY CONTROL COMPONENTS

TABLE 8

ITEM NO.	DESCRIPTION	PART NO.
1	Valve, Solenoid (Less Coil)	025-15539
2	Coil, Solenoid	025-16572005
3	Valve, Pressure Regulating	025-09980
4	Valve, Capacity Control	365-13975002
5	Ring, Retainer	029-08659
6	Cover, Handhole (For Capacity Control Solenoid Valves)	064-26588
7	Cover, Handhole (For Suction Pressure Capacity Control)	064-26587
8	Cover, Handhole (Plain, Not Shown)	064-21645
9	Gasket, Handhole Cover 2 Req'd	064-21700
10	Screw, Handhole Cover 7/16-14X1-5/8 (16 Req'd/Cover)	021-08579
11	Screw (2 Req'd)	021-01435
12	Washer (2 Req'd)	064-06648
13	"O"-Ring	028-04754
Δ 14	Gasket	064-26671

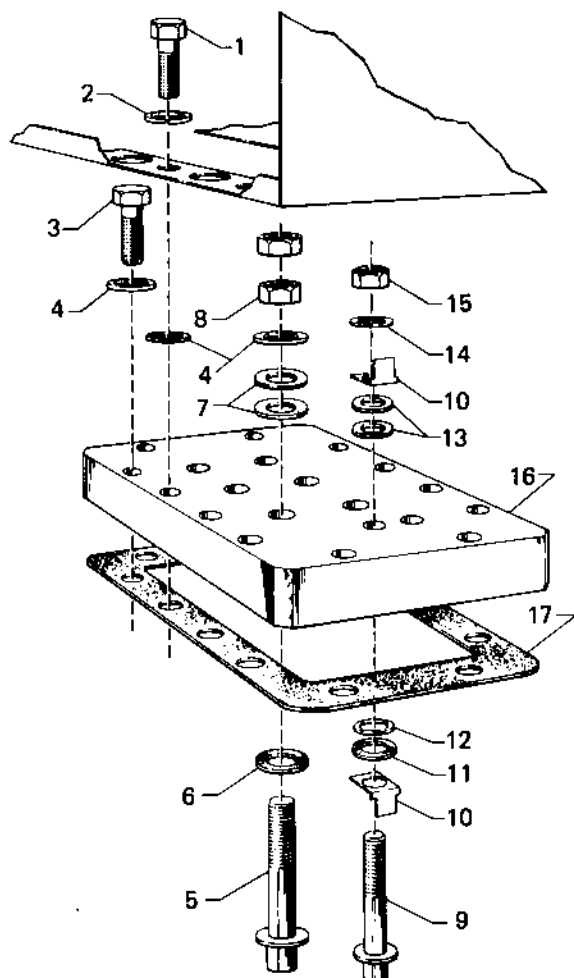


FIG. 9—TERMINAL BOX

TABLE 9 Δ

ITEM NO.	DESCRIPTION	PART NO.
1	Screw—7/16 X 1-3/4	021-01545
2	Lockwasher — 7/16	021-01161
3	Screw — 7/16 X 1-5/8	021-08579
4	Washer, Plain — 7/16	021-14111
5	Bolt, Terminal	021-12696
6	Gasket, Terminal Bolt	064-36151
7	Washer, Terminal Bolt	028-09410
8	Nut, Hex	021-12724
9	Screw, Overload Protector	021-14817
10	Terminal, Overload	025-18650
11	Washer, Plain	021-01240
12	Seal, O-Ring	028-09347
13	Washer, Terminal	028-09525
14	Lockwasher	021-01133
15	Nut, Hex	021-09991
16	Block, Terminal	025-19978
17	Gasket, Terminal Block	064-21839

TABLE 10 — REPLACEMENT COMPRESSORS*

COMPRESSOR MODEL	PART NO.
JS43	364-37275
JS53	364-37276
JS63	364-37277
JS73	364-37278
JS83	364-37279

* Compressors are evacuated, dehydrated, and charged with nitrogen before being sealed for shipment. Compressor part numbers listed do NOT include motor, motor housing, discharge manifold, crankcase heater, capacity control devices or oil charge. Crankcase is closed with blank hand-hole covers on both sides. For parts not included with replacement compressors, use parts from original compressor (if usable) or order new parts listed separately in this manual.

TABLE 11 — REPLACEMENT MOTORS Δ

VOLTAGE	MOTOR SIZE CODE**					
	L	M	N	P	Q	S
200-3-60	364-43271-001	364-43271-008	364-43271-015	364-43271-022	364-43271-029	364-43271-036
190-3-50/230-3-60	364-43271-002	364-43271-009	364-43271-016	364-43271-023	364-43271-030	364-43271-037
380/415-3-50/460-3-60	364-43271-002	364-43271-010	364-43271-017	364-43271-024	364-43271-031	364-43271-038
500-3-50/575-3-60	364-43271-004	364-43271-011	364-43271-018	364-43271-025	364-43271-032	364-43271-039
220-3-50	364-43271-005	364-43271-012	364-43271-019	364-43271-026	364-43271-033	364-43271-040
346-3-50/380-3-60	364-43271-006	364-43271-013	364-43271-020	364-43271-027	364-43271-034	364-43271-041

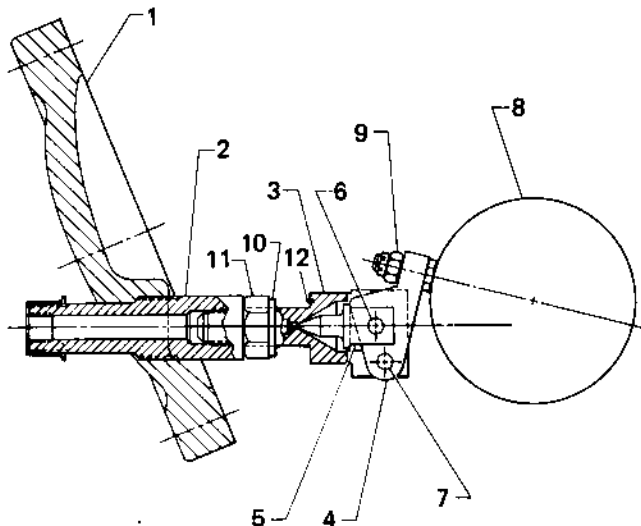
**As indicated by fifth digit of model number. Replacement motor must be same size as original.

TABLE 12 — SERVICE AIDS

GASKET KIT				
COMPRESSOR MODEL				
JS43	JS53	JS63	JS73	JS83
364-36600	364-36601	364-36601	364-36602	364-36602

VALVE RETAINING CLIP	064-37274
BEARING REMOVAL TOOL	364-37260
ROTOR MANDREL*	364-3727
STATOR REMOVAL TOOL	029-13/ 17

*Screws into end of crankshaft to aid in removing and installing rotor.


FIG. 13— CRANKCASE FLOAT
TABLE 13— CRANKCASE FLOAT

ITEM NO.	DESCRIPTION	PART NO.
	Crankcase Float	364-26809
	Includes:	
1	Cover, Handhole	064-26808
2	Adapter	064-26807
Δ 3	Valve Body	064-45531
4	Lever, Float	068-04542
5	Valve, Float	068-04545
6	Pin, Valve	068-01594
Δ 7	Pin, Lever	065-02071
8	Ball, Float	022-00530
9	Nut-Hex Self Locking	021-09610
Δ 10	Lockwasher	021-05251
Δ 11	Nut, Hex Jam	021-08073
Δ 12	Pin, Roll	029-08228

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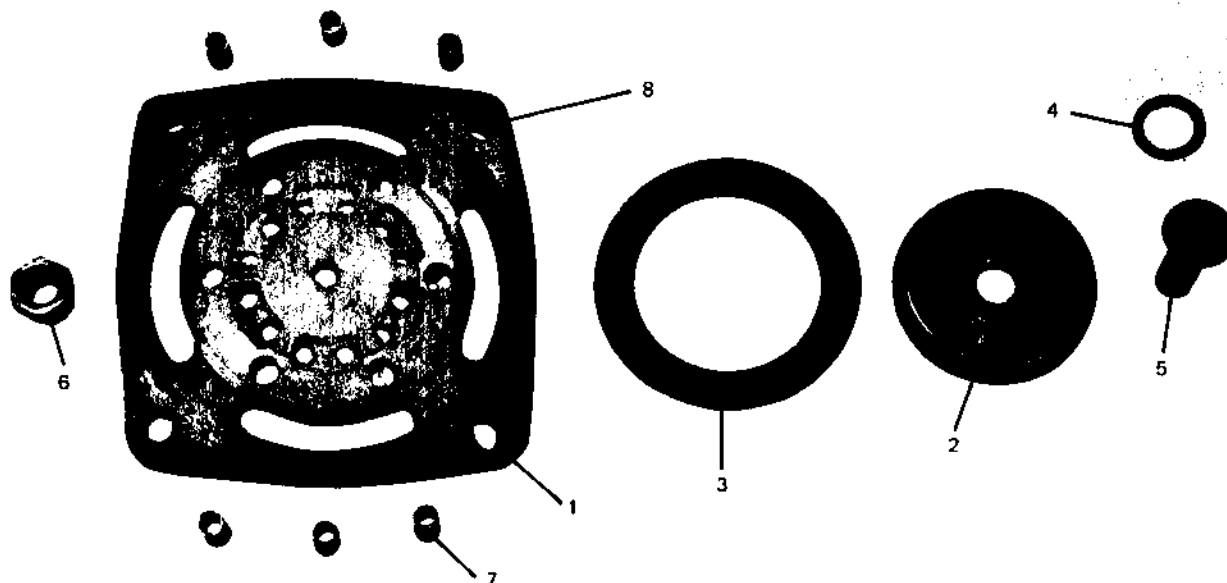
YORK **BORG** **WARNER**

MODELS JS43, JS53, JS63, JS73, JS83

The discharge valve cage and suction valve plate for Model J compressors have been re-designed. The changes involved and means of identification are as follows:

1. Discharge Valve Cage (See Fig. 1) – The thickness has been increased $1/8"$. The valve cage will have four larger core ports rather than 8 small ports. The length of the discharge valve cage assembly center bolt has been increased $1/8"$. The specified torque for the 4 valve cage hold down bolts has been increased to 30 ft. lb. The length of the hold down bolts has been increased.
2. Suction Valve Plate (See Fig. 2) – Valve plate thickness has been increased $.020"$. The valve plate will have two grooves in its circumference for identification. Gaskets (Part No. 064-21704) which fit between the compressor housing and the cylinder sleeve, and between the cylinder sleeve and the suction valve plate have been eliminated. When replacing old suction valve plates with new plates be sure to discard existing gaskets (Part No. 064-21704).

New part numbers are given in the accompanying illustrations. These supersede Fig. 4 & Fig. 5 in 180.23-RP1.



ITEM NO.	DESCRIPTION	PART NO.
	Cage, Discharge Valve Assy. Includes items 1-7.	364-42306
1	Cage, Disch. Valve	*
2	Plate, Inner Valve	064-21754
3	Valve, Discharge	064-21898
4	Gasket	028-08386
5	Screw	021-13856
6	Nut, Self-Locking	021-09932
7	Spring (6 Req'd Per Valve Ass'y)	029-13248
8**	Bolt 3/8"x2 1/2" (4 per Valve)	021-10037

* Discharge Valve Cage, Item 1, not available separately.
Order assembly #364-42306.

**When installing new valve cage assembly always order 4 of item 8 for each valve cage.

FIG. 1 — DISCHARGE VALVE CAGE ASSEMBLY

ITEM NO.	DESCRIPTION	PART NO.
	Cage, Suction Valve Ass'y Includes:	364-42718
1	Plate, Valve	064-42716
2	Valve, Suction	064-21897
3	Spring (6 Req'd Per Valve Ass'y)	029-13813
4	Plate, Suction Valve (For Permanently Unloaded Cylinder)	064-42716

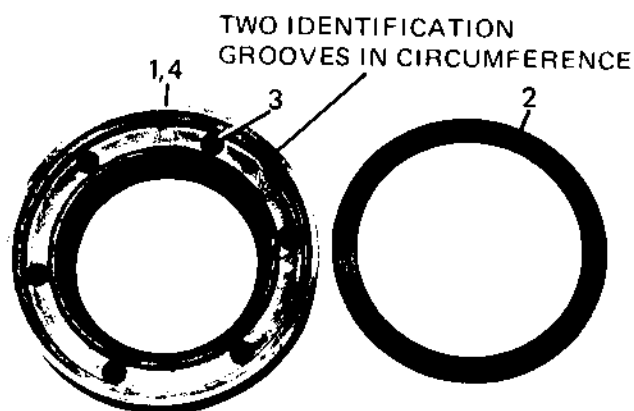


FIG. 2 — SUCTION VALVE PLATE ASSEMBLY

SUBJECT TO CHANGE WITHOUT NOTICE
PRINTED IN U.S.A.

C L 4M 576 .05 Code: S(N) & R(N)
Form 180.23-HP1 (SUPL. 1) S(N) & R(N) - Int.

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P.O. Box 1592, York, Pa. 17405

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