

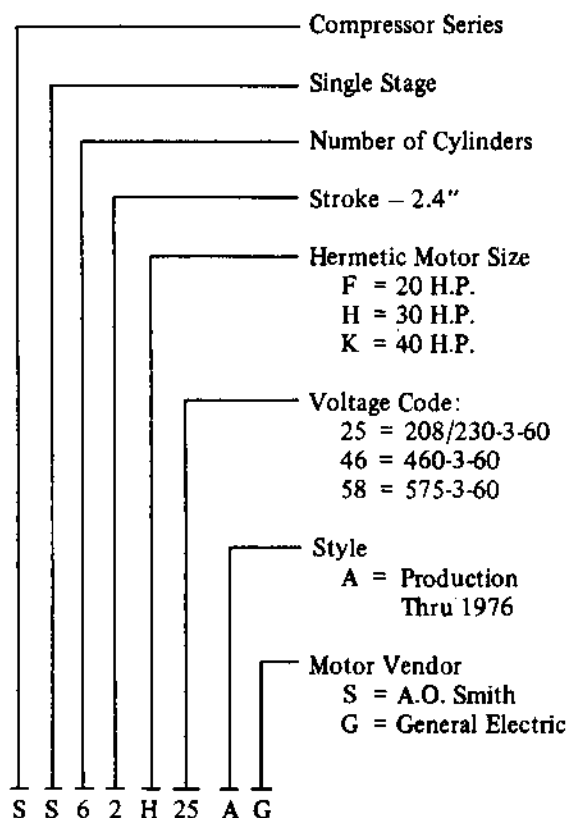
STYLE A & STYLE B

The "Style A" S compressor is being replaced by a "Style B" compressor. These compressors are currently in

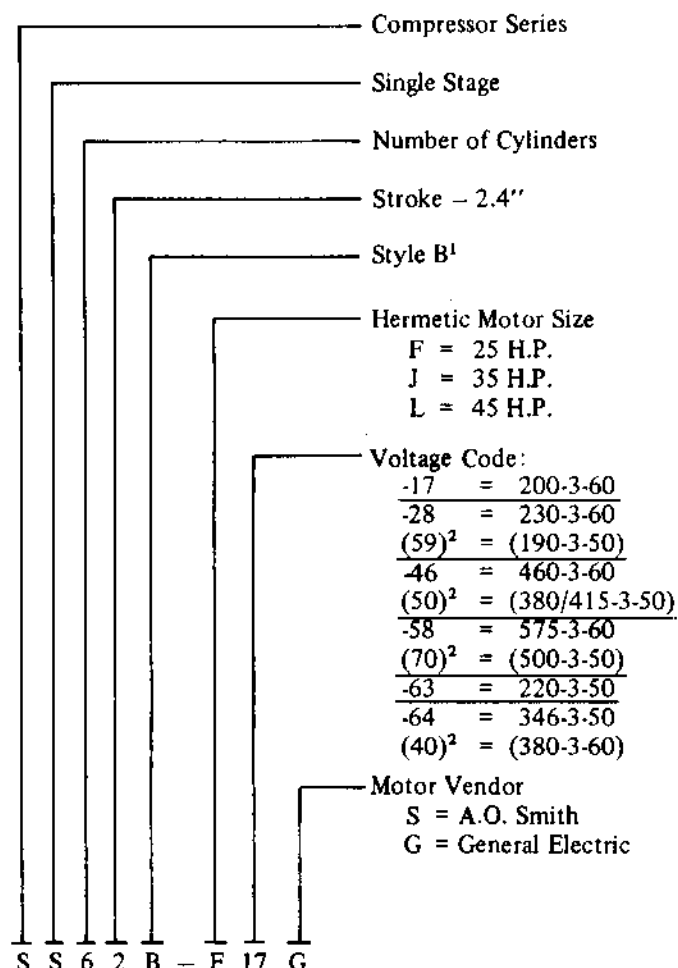
production. The following describes the differences between Style A and Style B compressors:

NOMENCLATURE

STYLE A



STYLE B



NOTES:

¹ Style A compressors that were built (or rebuilt) with Style B motors carry the designation SS42A, SS62A, SS82A. These are designated as "AB" in Table 1.

² Voltage codes in () do not appear in Model Number. They are shown here for information only. The comparable electrical characteristic is stamped on the second line of the data plate.

MOTOR

Style A compressors were available with a dual voltage (208/230-3-60) motor. Style B compressors are available with either a 200-3-60 or a 230-3-60 motor. (See Table below.)

NOTE: When replacing a 208/230-3-60 (Code 25) Style A compressor with a Style A/B compressor, the actual line voltage must be specified; either 200-3-60 (Code 17) or 230-3-60 (Code 28). Operating range of single voltage motors is $\pm 10\%$ of data plate voltage.

STYLE A		STYLE A/B	
Voltage Code	Voltage	Voltage Code	Voltage
25	208/230-3-60	17	200-3-60
		28	230-3-60

The Style B motor is shorter than the Style A motor. When using a Style B motor in a Style A compressor (also see section on CRANKSHAFT) a spacer must be added between the rotor and the end of the crankshaft. Part numbers of spacers are:

4 cyl 065-24691
6 cyl 065-24692
8 cyl 065-24794

Also the rotor key must be cut to the lengths shown;

SS42 2-1/2"
SS62 1"
SS82 1-1/4"

Style A rotors or stators cannot be used with Style B rotors or stators.

A.O. Smith rotors or stators cannot be used with G.E. rotors or stators.

All Style B compressors have 6 lead motors.

Style A compressors have either 3 lead or 6 lead motors. The following Style A compressors have 3 lead motors:

4 cylinder	6 cylinder
460-3-60	460-3-60
575-3-60	575-3-60
380/415-3-50	380/415-3-50

All other Style A compressors have 6 lead motors.

If a compressor with a 3 lead motor (or a motor) is replaced with one having 6 leads, jumper wires Part No. 363-37026-030 are available from YORK. (3 required)

CRANKSHAFT

The crankshaft used in Style B compressors is shorter on the motor end than the crankshaft used in Style A compressors. (See section on MOTOR.) Replacement Style A crankshafts will no longer be available. If a Style A crankshaft is damaged beyond use, a Style B crankshaft must be substituted. A Style B crankshaft can be used in a Style A compressor provided that the following changes are made:

- A. A longer cap screw is required to hold the rotor to the crankshaft. Required cap screw sizes are:

4 cylinder - 9/16" - 12 x 3-3/4"
6 cylinder - 9/16" - 12 x 5-3/4"
8 cylinder - 9/16" - 12 x 5-1/2"

- B. Longer keys are required to retain the key between the rotor and the shaft. Key sizes are as follows:

4 cylinder - 3/8" x 3/8" x 4-3/8"
6 cylinder - 3/8" x 3/8" x 6-7/8"
8 cylinder - 3/8" x 3/8" x 6-7/8"

- C. The bearing head should be revised as follows:

1. Remove the thrust collar
2. Remove the roll pin (if used) that locates the thrust collar
3. Push the pump end bearing further into the bearing head so that it is recessed 1/8" below the bearing surface.

BEARING HEAD ASSEMBLY AND OIL PUMP

The Style B bearing head assembly does not use a thrust collar. Consequently the roll pin locating the thrust collar has been eliminated and the bearing is pressed in below the bearing surface on the bearing head. A new oil pump, York Part No. 026-20297, is also used.

If the Style A bearing head is used, the original YORK oil pump may be used, or a replacement oil pump (York Part No. 365-24582) explained in Form 180.40-M (Supl. 1) dated 875 may be used. Replacement Style A bearing head assemblies are presently available.

CRANKCASE HEATER

Style A compressors have a 240 volt immersion type crankcase heater. Style B compressors are available with a 120 volt or 240 volt heater. The heater on Style B compressors is located in a well in the housing; it is not in contact with the oil. Because of this difference in design, crankcase heaters are not part of replacement Style B compressors. Part numbers of Style B heaters are:

120 Volt - 025-19347001
240 Volt - 025-19347002

TABLE 1 — REPLACEMENT PART NUMBERS

Current Code	SS42 Compressors	Style "AB" Compressor ¹ "A" Compressor with "B" Motor	Style "B" Compressor
		Repl. Compr. No.	Repl. Compr. No.
-17	200-3-60	365-23102-014	365-24500-T002
-28, (59) ²	230-3-60 (190-3-50)	365-23102-015	365-24500-T003
-46, (50) ²	460-3-60 (380/415-3-50)	365-23102-011	365-24500-T004
-58, (70) ²	575-3-60 (500-3-50)	365-23102-012	365-24500-T005
-63	220-3-50		365-24500-T006
-64, (40) ²	346-3-50 (380-3-60)		365-24500-T006
SS62 Compressors			
-17	200-3-60	365-23104-014	365-24502-T002
-28, (59) ²	230-3-60 (190-3-50)	365-23104-015	365-24502-T003
-46, (50) ²	460-3-60 (380/415-3-50)	365-23104-011	365-24502-T004
-58, (70) ²	575-3-60 (500-3-50)	365-23104-012	365-24502-T005
-63	220-3-50		365-24502-T006
-64, (40) ²	346-3-50 (380-3-60)		365-24502-T007
SS82 Compressors			
-17	200-3-60	362-23379-014	365-24548-T002
-28, (59) ²	230-3-60 (190-3-50)	365-23379-015	365-24548-T003
-46, (50) ²	460-3-60 (380/415-3-50)	365-23379-011	365-24548-T004
-58, (70) ²	575-3-60 (500-3-50)	365-23379-012	365-24548-T005
-63	220-3-50		365-24548-T006
-64, (40) ²	346-3-50 (380-3-60)		365-24548-T006

¹ At present there are some Style A compressors being built (or rebuilt) with Style B motors. These compressors will carry the designation SS42A, SS62A, SS82A. These are designated as "AB" in Table 1.

² Voltage codes in () do not appear in Model Number. They are shown here for information only. The comparable electrical characteristic is stamped on the second line of the data plate.

REBUILD/EXCHANGE

An S compressor must be returned to the factory for rebuilding either "in-warranty" or an exchange if the problem is a motor failure of any kind or if the failure caused excessive carbon deposits throughout the compressor. Motor replacement in the field is not recommended or warranted by YORK. If the crankshaft scores or the bearing on the motor end fails it may be more economical to return these "in-warranty" compressors to YORK for rebuilding.

An S compressor must be repaired locally "in-warranty" if the failure is a bearing, connecting rod and piston assembly, suction valve assembly, discharge valve assembly, oil pump,

unloader mechanism, crankcase heater, gaskets and leaks (except porosity leaks in the main housing).

Exchange compressors can be returned for any defect.

ORDERING INSTRUCTIONS

Replacement compressor part numbers are listed in Table 1. Style AB compressors should be ordered for replacement of Style A compressors; Style B compressors should be ordered to replace Style B compressors. (Also see section on CRANKCASE HEATER). Any substitution of compressors across styles must have the approval of the YORK Service Department in order to have the warranty extended.

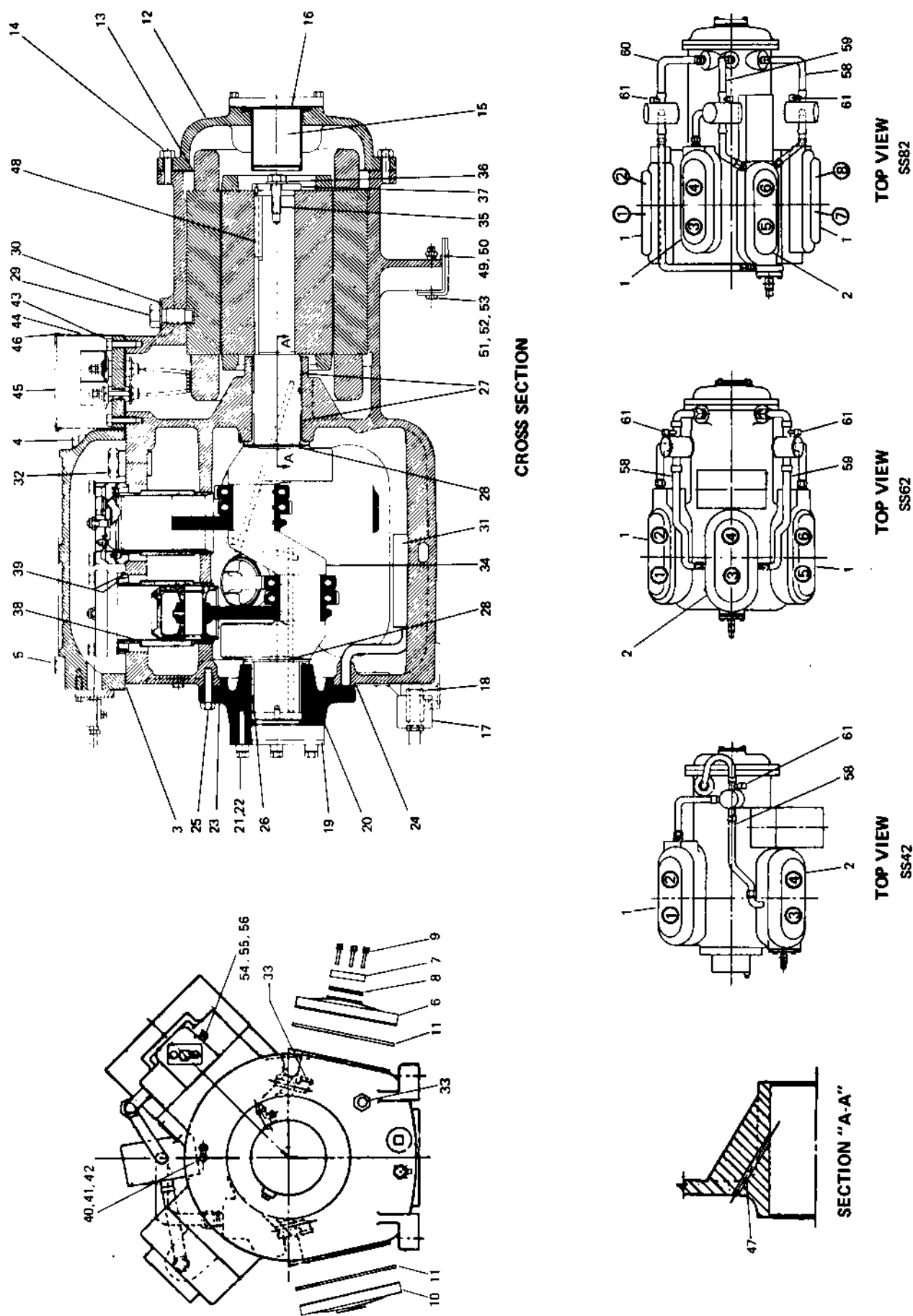


FIG. 1— S COMPRESSOR

Item No.	Description	MODEL SS42		MODEL SS62		MODEL SS82	
		Style A	Style B	Style A	Style B	Style A	Style B
1	Head, Compressor No. Req'd.	065-23783 1	Same as Style A	065-23783 2	Same as Style A	065-23783 3	Same as Style A
2	Head, Compressor No. Req'd.	065-23784 1	Same as Style A	065-23785 1	Same as Style A	065-23786 1	Same as Style A
3	Gasket, Compressor Head No. Req'd.	070-06899 2	Same as Style A	070-06899 3	Same as Style A	070-06899 4	Same as Style A
4	Bolt, 7/16 x 3, Compr. Head No. Req'd.	021-09576 24	Same as Style A	021-09576 36	Same as Style A	021-09576 48	Same as Style A
5	Bolt, 7/16 x 3-1/2, Compr. Head No. Req'd.	021-12703 4	Same as Style A	021-12703 6	Same as Style A	021-12704 8	Same as Style A
6	Cover, Hand Hole, With Sight Glass ¹	365-23791	—	365-23790	—	365-23790	—
7	Glass, Oil Sight	026-10797	—	026-10797	—	026-10797	—
8	Gasket, Sight Glass	028-06791	—	028-06791	—	028-06791	—
9	Screw, Sight Glass (3-req'd.)	021-01372	—	021-01372	—	021-01372	—
10	Cover, Hand Hole, Plain ¹	065-24339	Same as Style A	065-24339	Same as Style A	065-24339	Same as Style A
11	Gasket, Hand Hole Cover	070-06899	Same as Style A	070-06899	Same as Style A	070-06899	Same as Style A
12	Cover, Motor Housing	065-23074	Same as Style A	065-23053	Same as Style A	065-23053	Same as Style A
13	Gasket, Mtr. Housing Cover	065-23094	Same as Style A	065-23094	Same as Style A	065-23094	Same as Style A
14	Bolt, Mtr. Housing Cover (16-req'd.)	021-01541	Same as Style A	021-01541	Same as Style A	021-01541	Same as Style A
15	Strainer Screen, Suction	026-16010	Same as Style A	026-16011	Same as Style A	026-16011	Same as Style A
16	Gasket, Suct. Strn. Screen (2-Req'd.)	028-00640	Same as Style A	028-00864	Same as Style A	028-00864	Same as Style A
17	Crankcase Heater 120 Volt 240 Volt	025-18978 025-17044	025-19347001 025-19347002	025-18978 025-17044	025-19347001 025-19347002	025-18978 025-17044	025-19347001 025-19347002
18	Valve, Oil Chrg.	022-01582	Same as Style A	022-01582	Same as Style A	022-01582	Same as Style A
19	Pump, Oil	365-24582	026-20297	365-24582	026-20297	365-24582	026-20297
20	Gasket, Oil Pump	065-23109	065-24499	065-23109	065-24499	065-23109	065-24499
21	Cap Screw, Oil Pump (6-Req'd.)	021-02739	Same as Style A	021-02739	Same as Style A	021-13875	021-02739
22	Washer, Oil Pump (6-Req'd.)	021-05165	—	021-05165	—	021-05165	—
23	Bearing Head Assy. ²	365-24195	365-24349	365-24185	365-24349	365-24185	365-24349
24	Gasket, Bearing Head	070-07379	065-24330	070-07379	065-24330	070-07379	065-24330
25	Cap Screw, Bearing Head (10-Req'd.)	021-01541	Same as Style A	021-01541	Same as Style A	021-01541	Same as Style A
26 ³	Bearing, Oil Pump End	029-09052	Same as Style A	029-09052	Same as Style A	029-09052	Same as Style A
27	Bearing, Motor End (2-Req'd.)	029-09052	Same as Style A	029-09052	Same as Style A	029-09052	Same as Style A
28	Collar, Thrust (2-req'd.-Style A, 1 req'd.-Style B)	029-06183	Same as Style A	029-06183	Same as Style A	029-06183	Same as Style A
29	Locking Plug, Stator	065-24401	Same as Style A	065-24401	Same as Style A	065-24401	Same as Style A
30	Gasket, Stator Locking Plug	065-19004	Same as Style A	065-19004	Same as Style A	065-19004	Same as Style A
31	Strainer, Oil	365-24348	Same as Style A	365-24348	Same as Style A	365-24348	Same as Style A
32	Valve, Relief, 375 PSI	022-03871	Same as Style A	022-03871	Same as Style A	022-03871	Same as Style A
33	Sight Glass	—	026-17581	—	026-17581	—	026-17581
34	Crankshaft	—	365-24471	—	365-24472	—	365-24549

¹ Style A compressors use (1) each of item 6 and 10. Style B compressors use (2) of item 10. Items 7, 8, & 9 used with item 6.

² Style A Bearing Head Assy. includes bearing head, bearing & roll pin. Style B Bearing Head Assy. includes bearing head and bearing.

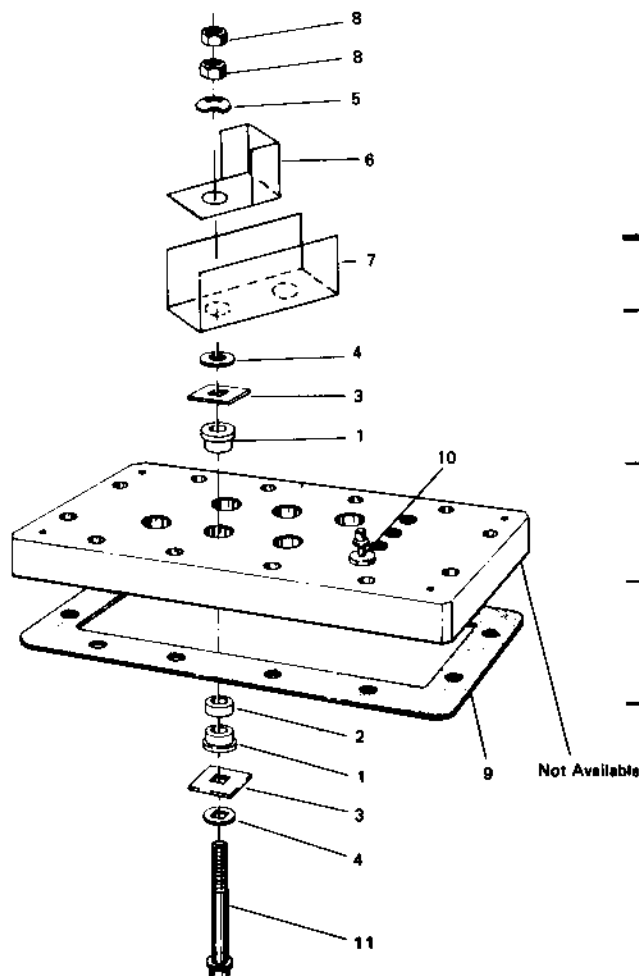
³ When pump end bearing, item 26, is replaced on "in warranty" compressors, replace entire bearing head assembly, item 23.

Item No.	Description	MODEL SS42		MODEL SS62		MODEL SS82	
		Style A	Style B	Style A	Style B	Style A	Style B
35	Screw, Crankshaft	021-01606	021-11115	021-01606	021-11115	021-01606	021-11115
36	Lockwasher	021-05294	Same as Style A	021-05294	Same as Style A	021-05294	Same as Style A
37	Washer, Shaft	065-24340	Same as Style A	065-24340	Same as Style A	065-24340	Same as Style A
38	Cylinder Sleeve	065-23776	Same as Style A	065-23776	Same as Style A	065-23776	Same as Style A
39	Gasket Cylinder Sleeve	070-07378	—	070-07378	—	070-07378	—
	No. Req'd.	8	—	12	—	16	—
40	Tee Fla. (Suct. Press. Conn.)	023-00957	Same as Style A	023-00957	Same as Style A	023-00957	Same as Style A
42	Cap Seal 1/4 OD	023-08590	Same as Style A	023-08590	Same as Style A	023-08590	Same as Style A
43	Scr. Cap 5/16 x 1-1/4	021-01442	Same as Style A	021-01442	Same as Style A	021-01442	Same as Style A
44	Box Terminal	365-23789	Same as Style A	365-23789	Same as Style A	365-23789	Same as Style A
45	Cover Term. Box	065-36352	Same as Style A	065-36352	Same as Style A	065-36352	Same as Style A
46	Scr. Tap No. 8 x 3/8	021-13725	Same as Style A	021-13725	Same as Style A	021-13725	Same as Style A
47	Roll Pin 1/8 Dia. x 5/8	029-07238	Same as Style A	029-07238	Same as Style A	029-07238	Same as Style A
48	Key	068-00251	063-21673	068-00251	062-47458023	068-00251	063-51204
49	Foot, Compr.	065-23792	Same as Style A	065-23792	Same as Style A	065-23792	Same as Style A
50	Foot, Compr.	065-23793	Same as Style A	065-23793	Same as Style A	065-23793	Same as Style A
51	Scr. Cap 1/2 x 2-1/2	021-01589	Same as Style A	021-01589	Same as Style A	021-01589	Same as Style A
52	Lockwasher	021-05271	Same as Style A	021-05271	Same as Style A	021-05271	Same as Style A
53	Nut	021-00485	Same as Style A	021-00485	Same as Style A	021-00485	Same as Style A
54	Conn. Fla. (Disch. Press. Conn.)	023-00913	Same as Style A	023-00913	Same as Style A	023-00913	Same as Style A
55	Cap. Seal	023-08590	Same as Style A	023-08590	Same as Style A	023-08590	Same as Style A
57	Tee, Access	022-04060	Same as Style A	022-04060	Same as Style A	022-04060	Same as Style A
58	Unloader Piping ⁴	365-24450	Same as Style A	365-24451	Same as Style A	365-23809	365-24686 ⁵
59	Unloader Piping ⁴	—	—	365-24452	Same as Style A	365-23810	365-24683 ⁵
60	Unloader Piping ⁴	—	—	—	—	365-23811	365-24680 ⁵
61	Solenoid Coil (240V P.E.) ⁵	025-16572-001	Same as Style A	025-16572-001	Same as Style A	025-16572-001	Same as Style A
	(120V P.E.) ⁵	025-16572-003	Same as Style A	025-16572-003	Same as Style A	025-16572-003	Same as Style A
	"O" Ring - P.E. Valve	028-08294	—	028-08294	—	028-08294	—
62	Solenoid Coil (240V Alco) ⁵	025-18281	—	025-18281	—	025-17271	—
	Gasket - Alco Valve	025-17336	—	025-17336	—	025-17336	—
	Gasket, Replacement Set, Complete	365-24182	Same as Style A	365-24183	Same as Style A	365-24184	Same as Style A
	Tee (with Schrader Valve)	022-04060	365-24460	022-04060	—	022-04060	—
	Piping, Non-Unloading Compressor ⁶	365-24394	—	—	—	—	—
	Fitting, Flare	023-10298	—	—	—	—	—

⁴ Unloading piping for 4 and 6 cylinder compressors includes solenoid coil (item 61) and all flare fittings required to connect unloader piping to compressor top heads and housing.

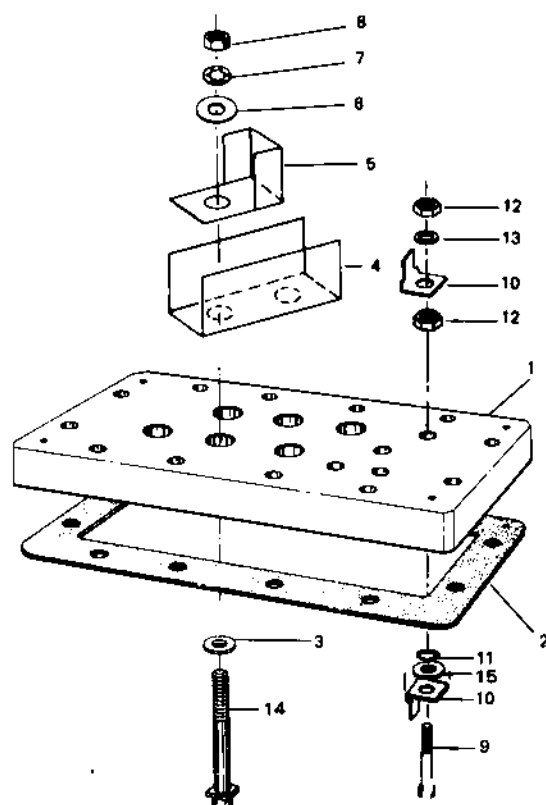
⁵ Unloader piping for 8 cylinder compressors is for use with flare type fittings and P.E. solenoid valve, but does not include solenoid coil. Solenoid coil must be ordered separately. If used on a compressor that originally had compression fittings also order (8) flare fittings Part No. 023-10298. Items 61 and 62 are not interchangeable. Item 62 cannot be used with items 58, 59, or 60.

⁶ Non-Unloading Piping is supplied with flare fittings. If replacing piping with compression fittings, also order (2) flare fittings Part No. 023-10298.



Item No.	Description	Part No.
1	Bushing, Terminal Bolt	025-10041
2	Packing, Terminal Bolt	028-01445
3	Washer, Terminal, Square	028-04753
4	Washer, Terminal	021-07844
5	Washer, Terminal Spring	021-08627
6	Spacer, Insulating (3 Req'd.)	065-23626
7	Spacer, Insulating (3 Req'd.)	065-23627
8	Nut, Hex. Terminal Bolt	021-08581
9	Gasket, Terminal Block	070-15282
10	Terminal, Hermetic Kit, Terminal Bolt (Consists of Items 1, 2, 3, 4, 5, 8)	025-09346
11	Terminal Bolt, Motor	365-23372
		021-11581

FIG. 2 — MOTOR TERMINAL BLOCK (STEEL TERMINAL BLOCK)



Item No.	Description	Part No.
1	Block, Terminal (Phenolic) 4 & 6 Cylinder 208/230-3-60 460-3-60 575-3-60 8 Cylinder All Voltages	025-18426 025-18427 025-18427 025-18426
2	Gasket, Terminal Block	070-15282
3	Gasket, Terminal Bolt	064-36152
4	Spacer, Insulating	065-23627
5	Spacer, Insulating	065-23626
6	Washer, Flat	021-05165
7	Lockwasher, Spring	021-08276
8	Nut, Hex	021-08581
9	Screw, Overload Protector	021-14619
10	Terminal	025-18650
11	Seal "O" Ring	028-09347
12	Nut, Hex	021-09991
13	Lockwasher	021-01133
14	Terminal Bolt, Motor	021-14493-001
15	Washer, Plain 3/16 I.D.	021-01240

FIG. 3 — MOTOR TERMINAL BLOCK (PHENOLIC TERMINAL BLOCK)

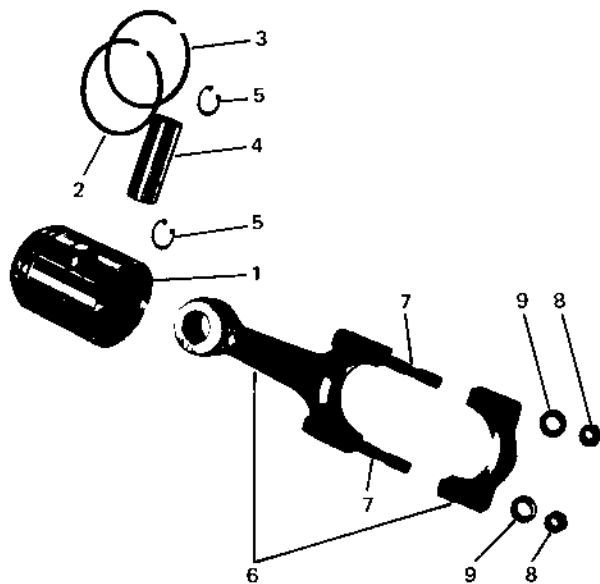


FIG. 4 — PISTON AND CONNECTIONS

Item No.	Description	Part No.
	Piston Ass'y. (Consists of Items 1 thru 5)	365-24141
1	Piston (Bare)	065-23812
2	Piston Ring (Plain)	029-03525
3	Piston Ring (Oil)	029-06182
4	Piston Pin	029-13884
5	Retaining Ring (2 per Piston)	029-13764
6	Connecting Rod Ass'y.	365-00374
7	Bolt	065-24373
8	Nut	021-09610
9	Washer	021-01262

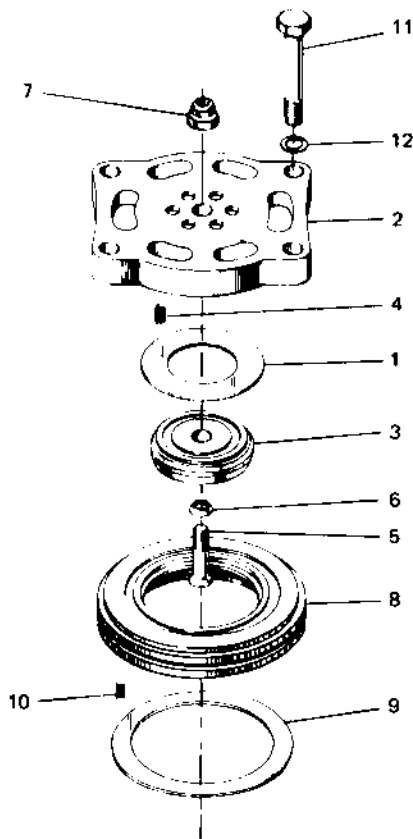


FIG. 5 — SUCTION AND DISCHARGE VALVE ASSEMBLIES

Item No.	Description	Part No.
	Discharge Valve Cage Assembly (Consists of Items 1 thru 7)	365-24678
1	Valve, Discharge	065-20889
2	Cage, Disch. Valve	065-24600
3	Plate, Disch. Valve	065-03031
4	Spring, Disch. Valve (6 Req'd/Cylinder)	029-15292
5	Screw, Center	021-01068
6	Gasket, Screw	028-00574
7	Nut, Hex	021-09610
8	Plate, Suction Valve	065-24676
9	Valve, Suction	065-00836
10	Spring, Suction Valve (6 Req'd/Cylinder)	029-15292
11	Screw, Cap (4 & 6 Cyl. Models)	021-01510
	8 Cyl. Models	021-01448
12	Washer, Plain (8 Cyl. Models Only)	021-01262

BEARING REPLACEMENT TOOL - 365-04453
OIL CHARGING PUMP — 470-10654

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YORK

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