



YORK®

MODEL Z - STYLE A HERMETIC COMPRESSORS

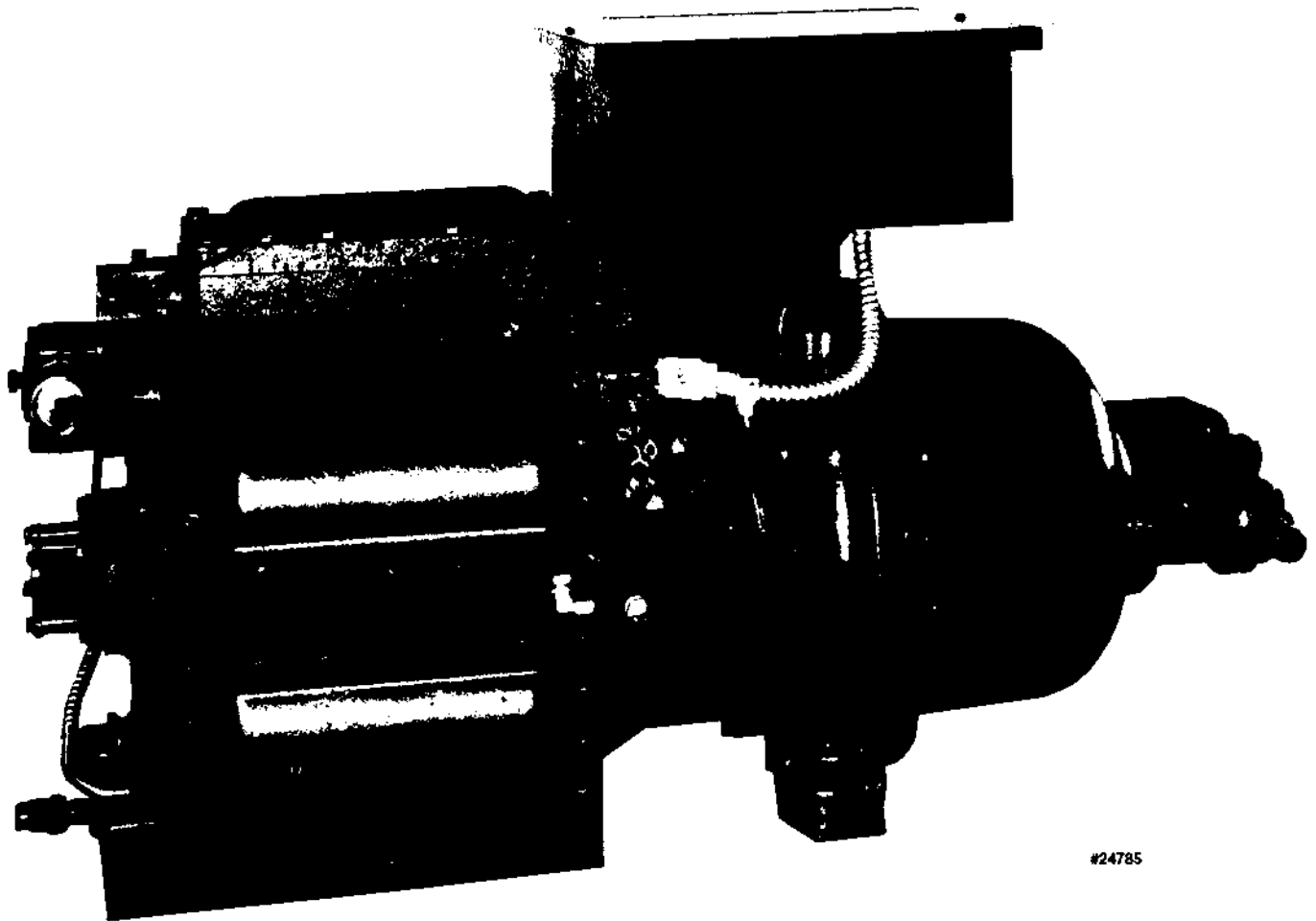
RENEWAL PARTS

Supersedes: 180.45-RP1 (394)

180.45-RP1 (1295)

MODELS Z4H, Z4J, Z4K, Z4M Z6N, Z6R, Z6S, Z6W, Z6AE

(See Page 2 for Complete Model Nomenclature)



#24785

NOMENCLATURE

COMPRESSOR IDENTIFICATION

Each compressor is identified by nomenclature as shown below. The nomenclature is printed on a data plate which is located next to the oil pump as shown in Fig. 1. When contacting the factory or ordering renewal parts, include the complete Nomenclature, Serial Number, and Date Code. Be sure these numbers are copied accurately.

YORK INTERNATIONAL CORPORATION
YORK, PA. 17405

MODEL: SERIAL NUMBER:

PART NO: DATE CODE:

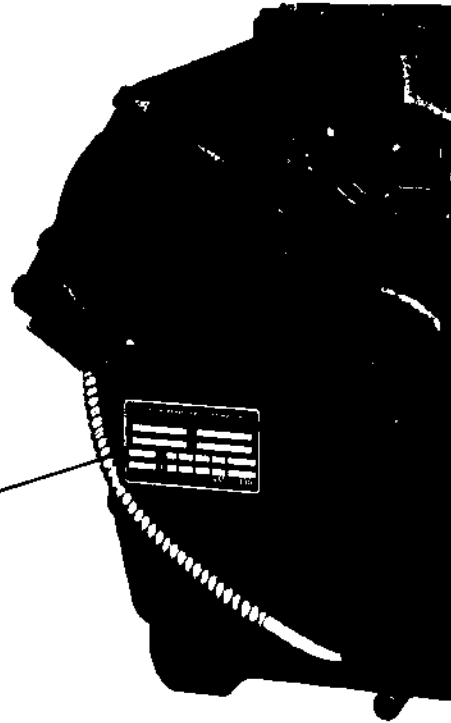
VOLTAGE: PH: HZ: RLA: FULRA: PWLRA: UTILIZATION RANGE VOLTS:

VOLTAGE: PH: HZ: RLA: FULRA: PWLRA: UTILIZATION RANGE VOLTS:

THERMALLY PROTECTED 029 202178 REV

FACTORY TEST PRESSURE PSIG

H.S. 450 L.S. 330



#24787

FIG. 1 - COMPRESSOR DATA PLATE

Compressor Series

No. of Cylinders - 4, 6

Displacement - H (4 Cyl., 2.7" Bore, 2.4" Stroke)
J (4 Cyl., 2.9" Bore, 2.4" Stroke)
K (4 Cyl., 2.7" Bore, 3" Stroke)
M (4 Cyl., 2.9" Bore, 3" Stroke)
N (6 Cyl., 2.7" Bore, 2.4" Stroke)
R (6 Cyl., 2.9" Bore, 2.4" Stroke)
S (6 Cyl., 2.7" Bore, 3" Stroke)
W (6 Cyl., 2.9" Bore, 3" Stroke)
AE (6 Cyl., 3.1" Bore, 3" Stroke)

CFH

3216

3853

4174

4816

~~4824~~ - 4824

5780 - 5750

~~6262~~ 6262

~~7224~~ 7224

~~8255~~ 8255

No. of Steps of Unloading (0, 1, 2)

Style - A

Motor Size Code - A, D, C, D or E

Electrical Voltage Code

Volt. Code	Volt.	Phase	Hz
17	200	3	60
28	230	3	60
40	380	3	60
43	440	3	50
46	460	3	60
50	380/415	3	50
58	575	3	60
59	190	3	50
63	220	3	50
64	346	3	50
70	500	3	50

Motor Vendor - L - Leroy Somer
S - A.O. Smith

Z 6 W 2 A - E 46 S

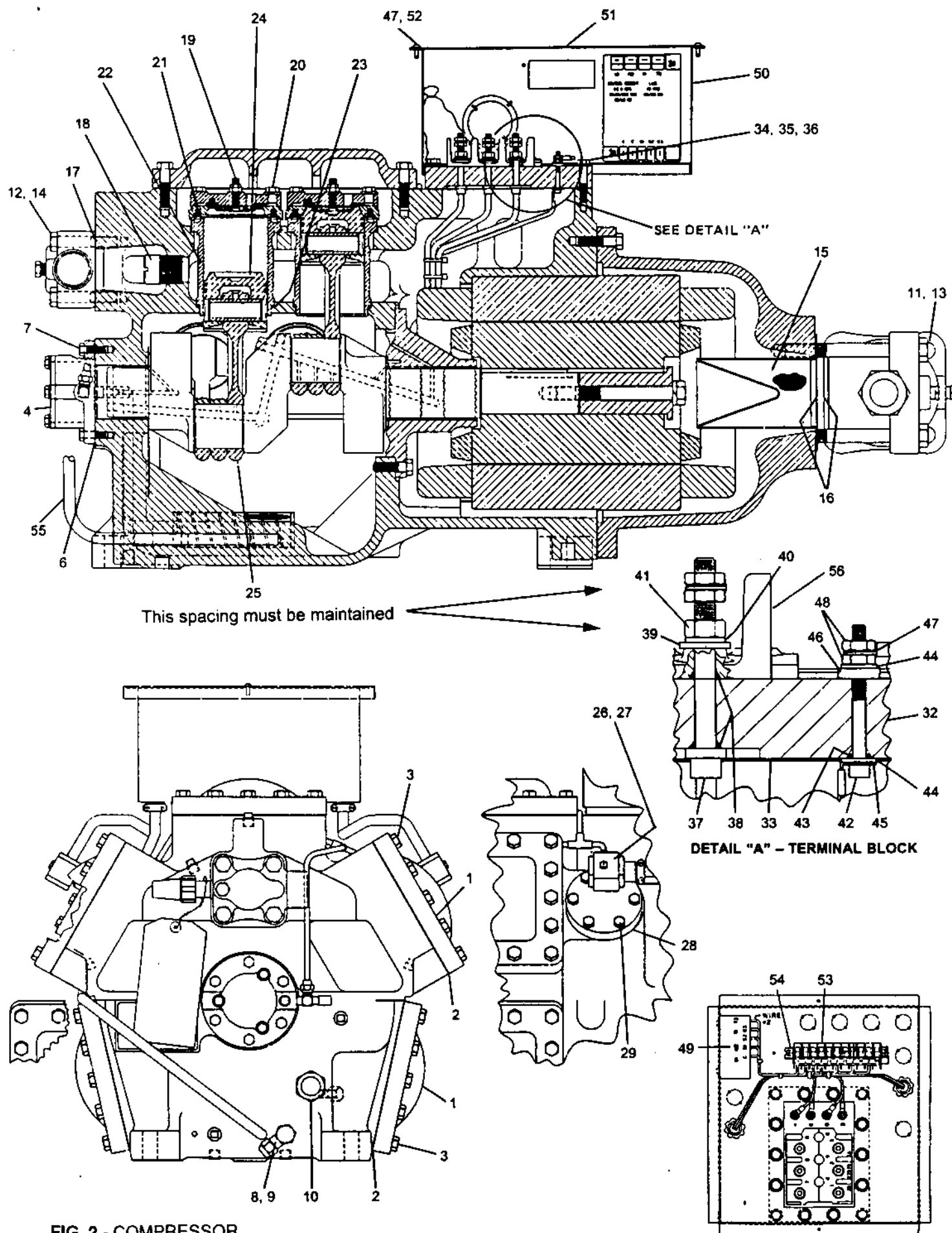


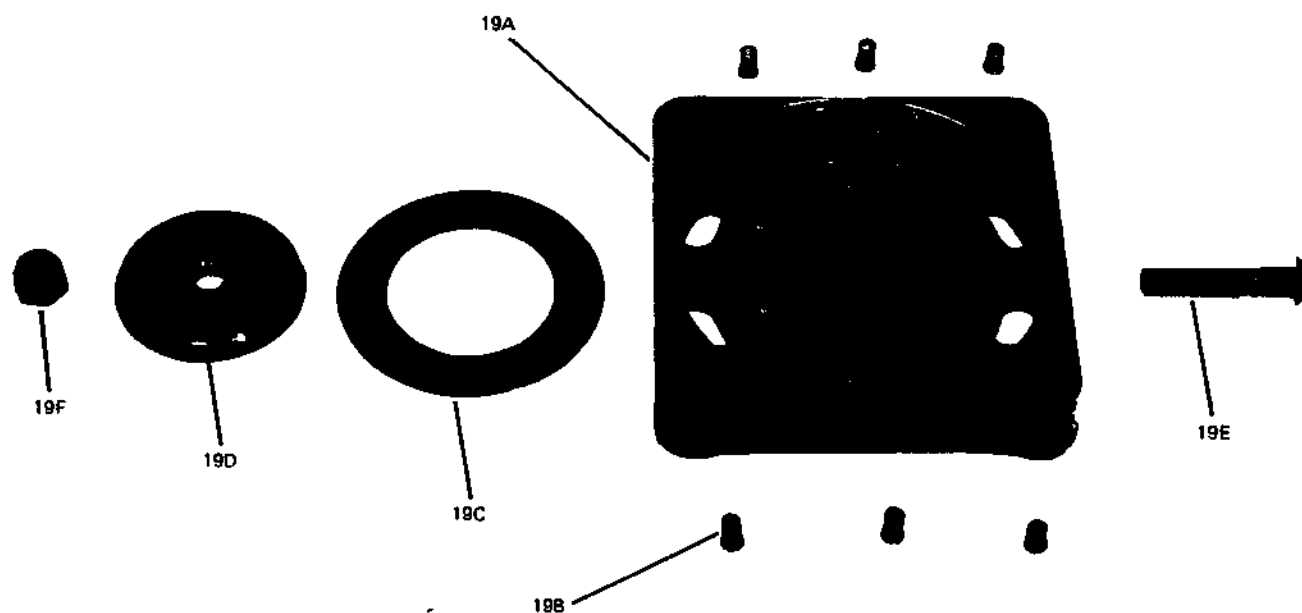
FIG. 2 - COMPRESSOR

YORK INTERNATIONAL

ITEM NO.	DESCRIPTION	PART NO.
1	Access Cover Plate	665-25185
2	Gasket for Item No. 1	028-11904
3	Cap Screw for Item No. 1 (16 Req'd - 5 / Pkg.)	221-01545-800
4	Pump, Oil	026-30586*
5	Roll Pin, (Used on 50 Hz Compressors Only) See Fig. 8	029-20840
6	Gasket, Oil Pump	028-11902
7	Screw, Oil Pump (6 Req'd - 5 / Pkg.)	221-01433-800
8	Valve Oil Charging	022-01582
9	Seal Cap	023-00977
10	Sight Glass	026-17581
11	Valve, Suction Stop	022-03727-003
	1-5/8" (Z4H-A)	002-01152
	(Z4J-B)	022-01393
	2-1/8" (Z4K-B; Z4M-C; Z6N-C;)	022-01394
	2-5/8" (Z6R-D; Z6S-D)	022-08851
	3-1/8" (Z6W-E; Z6AE-E)	
12	Valve, Discharge Stop	
	1-3/8" (Z4H, Z4J)	022-03727-002
	1-5/8" (Z4K, Z4M, Z6N, Z6R, Z6S, Z6W, Z6AE)	022-03727-003
13	Screw (Item 11 to Compressor)	
	Z4H-A	021-08318
	Z4J-B	021-17241
	Z4K-B; Z4M-C; Z6N-C	021-16821
	Z6R-D; Z6S-D	021-16821
	Z6W-E; Z6AE-E	021-16817
14	Screw (Item 12 to Compressor)	021-08318
15	Screen, Suction Strainer	
	Z4H-A; Z4J-B	026-30599
	Z4K-B; Z4M-C; Z6N-C; Z6R-D; Z6S-D	026-30601
	Z6W-E; Z6AE-E	026-30602
16	Gasket, Suction Strainer & Stop Valve	
	Z4H-A; Z4J-B	028-11912
	Z4K-B; Z4M-C; Z6N-C; Z6R-D, C; Z6S-D	064-47078
	Z6W-E	064-47078
	Z6AE-E	064-47079
17	Gasket, Discharge Stop Valve	028-11912
18	Valve, High Pressure Relief	022-03871
19	Discharge Valve Cage Assembly	See Figure 3
20	Screw, Discharge Valve Cage Assembly To Compressor (4 Per Cylinder - 4 / Pkg.)	221-13824-800
21	Suction Valve Plate Assembly	See Figure 4
22	Cylinder Sleeve	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	065-25237
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	065-25240
	Z6AE-E	065-25325

*At some future date 026-30586 will be superseded by 026-32387.

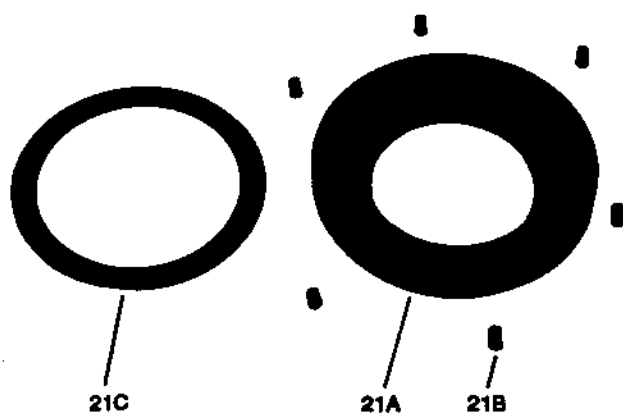
ITEM NO.	DESCRIPTION	PART NO.
24	Piston Assembly	See Figure 5
25	Connecting Rod Assembly	See Figure 6
28	Gasket, Solenoid Valve To Compressor	.028-12572 ²
29	Screw, Solenoid Valve To Compressor (6 Req'd. / Valve - 6 / Pkg.)	021-17767-000
30	Unloader Piston Assembly	See Figure 7
31	Cover, Unloader Opening (Blank)	665-25245-000
32	Terminal Block	025-27541
33	Gasket, Terminal Block	028-12574
34	Screw, Terminal Box & Terminal Block To Compressor (14 Req'd - 10 / Pkg.)	021-17768-000
35	Washer, Plain (14 Req'd - 10 / Pkg.)	021-05166-000
36	Washer, Lock (4 Req'd. - 20 / Pkg.)	021-17652-000
37	Bolt, Motor Terminal (6 Req'd.)	021-14493-002
38	"O" Ring (2 Req'd. / Terminal Bolt)	028-08959
39	Washer (1 Req'd. / Terminal Bolt - 10 / Pkg.)	221-05165-800
40	Lockwasher (1 Req'd. / Terminal Bolt - 20 / Pkg.)	221-03233-000
41	Nut, Hex (3 Req'd. / Terminal Bolt - 10 / Pkg.)	221-08581-800
42	Screw, Terminal Protector	021-14817
43	"O" Ring (1 Req'd. / Protector)	028-09347
44	Washer (2 Req'd. / Protector - 10 / Pkg.)	221-01240-800
45	Terminal, Protector	025-18650
46	Washer, Phenolic	028-09525
47	Lockwasher (20 / Pkg.)	221-01133-800
48	Nut, Hex (2 Req'd. / Protector - 10 / Pkg.)	221-08661-800
50	Terminal Box	365-25256
51	Cover, Terminal Box	065-25188
52	Screw, Terminal Box Cover (10 / Pkg.)	221-13784-800
53	Terminal Block (11 Req'd. With 1 Unloader; 13 With 2 Unloaders)	025-20944
54	Terminal Block End	025-20946
55	Crankcase, Heater	120V 025-27924
		240V 025-27936
56	Spacer, Insulating	025-27976-001
57	Top Head Overhaul Kit	364-47666-017
58	Top Head Valve Replacement Kit	364-47667-009
59	Gasket Kits	
	4 Cyl. 6 Cyl.	665-25317 665-25318



ITEM NO.	DESCRIPTION	PART NO.
19	Discharge Valve Cage Assembly	665-25183-000
19A	Cage, Discharge	065-25178
19B	Spring (6/Valve - 36 / Pkg.)	229-15292-800
19C	Valve, Discharge	065-25184
19D	Disk	065-25177
19E	Screw	021-17219
19F	Nut, Locking (5 / Pkg.)	221-09610-800

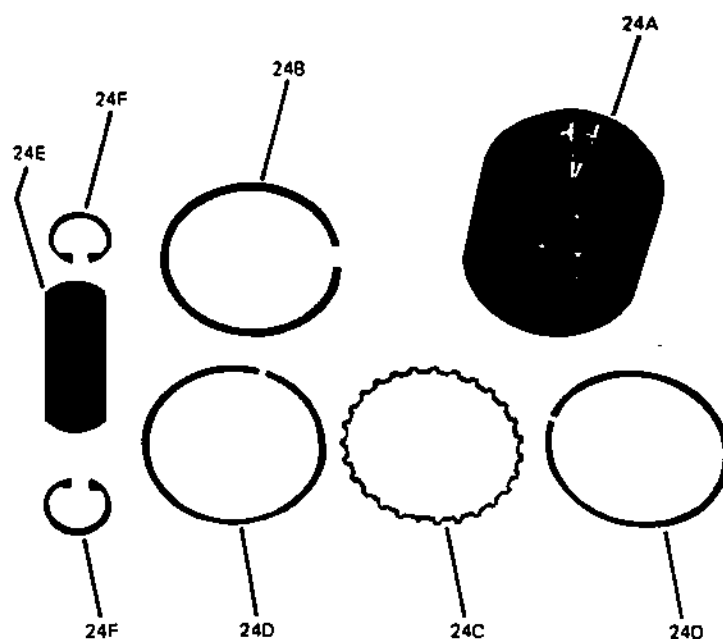
#24813

FIG. 3 - DISCHARGE VALVE CAGE ASSEMBLY



#24812

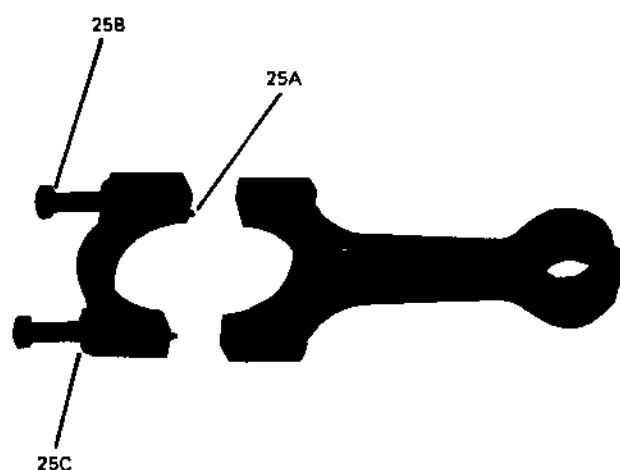
FIG. 4 - SUCTION VALVE PLATE ASSEMBLY



ITEM NO.	DESCRIPTION	PART NO.
24	Piston Assembly	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	665-25315
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	665-25316
	Z6AE-E	665-25447
24A	Piston	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	065-25226
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	065-25239
	Z6AE-E	065-25322
24B	Compression Ring	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	029-20220
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	029-20226
	Z6AE-E	029-20901
24C	Expander Ring	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	029-20221
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	029-20227
	Z6AE-E	Not Used
24D	Wiper Ring	
	Z4H-A; Z4K-B; Z6N-C; Z6S-D	029-20222
	Z4J-B; Z4M-C; Z6R-D; Z6W-E	029-20228
	Z6AE-E	028-20902
24E	Piston Pin	029-20218
24F	Retaining Ring (2 Req'd. / Piston)	029-20219

#24811A

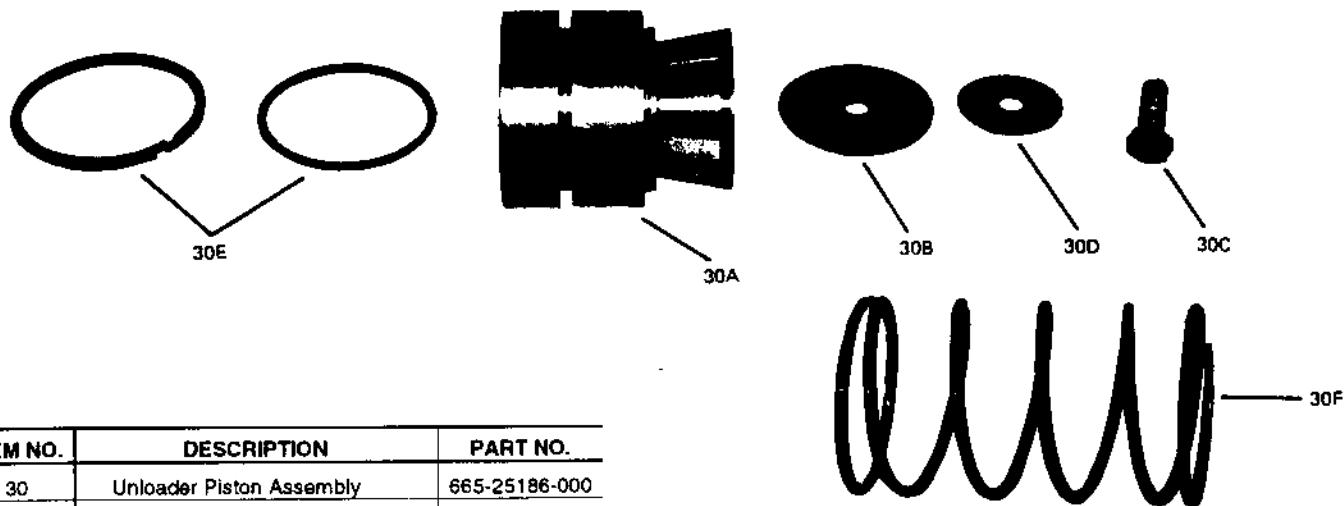
FIG. 5 - PISTON ASSEMBLY



ITEM NO.	DESCRIPTION	PART NO.
25	Connecting Rod Assembly	
	Z4H, Z4J, Z6N, Z6R	365-25229
	Z4K, Z4M, Z6S, Z6W, Z6AE	365-25242
25A	Dowel Pin (2 Req'd. / Rod)	029-19802
25B	Screw (2 Req'd. / Rod)	021-09643
25C	Washer (2 Req'd. / Rod - 10 / Pkg.)	221-01262-800

#24811B

FIG. 6 - CONNECTING ROD ASSEMBLY



ITEM NO.	DESCRIPTION	PART NO.
30	Unloader Piston Assembly	665-25186-000
30A	Piston	065-25187
30B	Seal	028-11905
30C	Screw	021-17396
30D	Flat Washer	021-17220
30E	Piston Ring (2 Piece)	029-20215
30F	Spring, Coil	029-20216

#24815

FIG. 7 - UNLOADER PISTON ASSEMBLY



#24790

#24791

FIG. 8 - COMPRESSOR OIL PUMP



Proud Sponsor
of the 1996
U.S. Olympic Team

36USC380

P.O. Box 1592, York, Pennsylvania USA 17405-1592
Copyright © by York International Corporation 1995

FORM 180.45-RP1 (1295)
SUPERSEDES: 180.45-RP1 (394)

Subject to change without notice. Printed in USA
ALL RIGHTS RESERVED

RPC 4M 196 .40
CODES: SRC, RWP