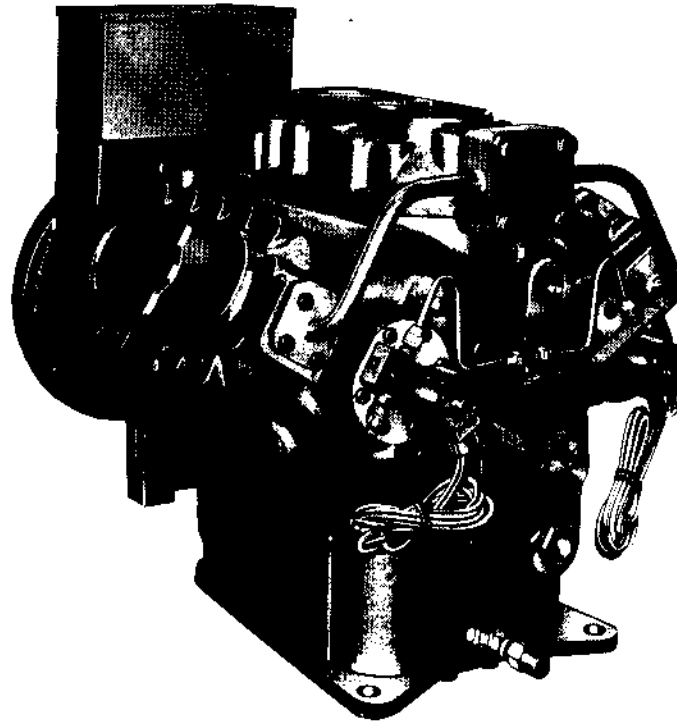


STYLE C

'BLOKED SUCTION'



GENERAL

York Style C (blocked suction), "S" Series, single stage, V/W accessible-hermetic compressors are designed to meet air conditioning requirements in the range of 20 to 40 tons with R-22.

The hermetic motor compressor is furnished in 4 or 6 cylinder sizes, 2-5/8" bore. 4 cylinder model is 2.4" stroke; 6 cylinder models are 2.4" or 3.0" stroke. (See NOMENCLATURE.) The compressor is direct-connected to a 1725 RPM hermetic motor with built-in protection; both enclosed in a single cast iron housing. Capacity control is accomplished by blocking the flow of suction gas to individual cylinder bank(s). The capacity control system is actuated by high pressure oil from the compressor oil pump. Solenoid valves control the flow of oil to the unloader pistons mounted on the pump end of the compressor.

NOMENCLATURE

SS62C-L17E

- Motor Vendor**
S = A.O. Smith
E = Emerson
- Voltage Code:**
-17 = 200-3-60
-28 = 230-3-60
-46 = 460-3-60
-58 = 575-3-60
-63 = 220-3-50
-64 = 346-3-50
- Hermetic Motor Size**
F = 25 H.P.
L = 45 H.P.
- Style C (blocked suction)**
- Stroke** — 2 = 2.4"
3 = 3.0"
- Number of Cylinders (4 or 6)**
- Single Stage**
- Compressor Series**

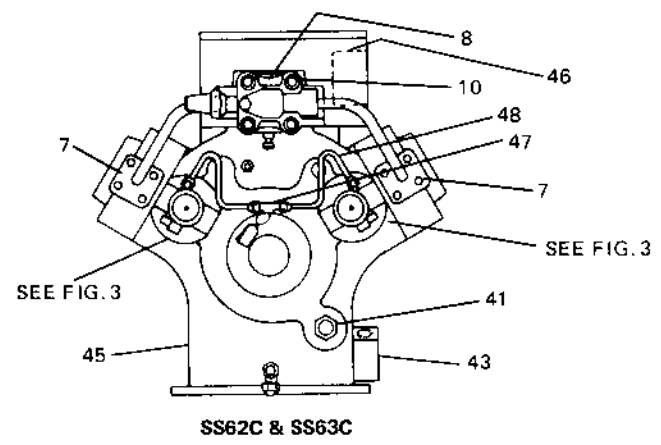
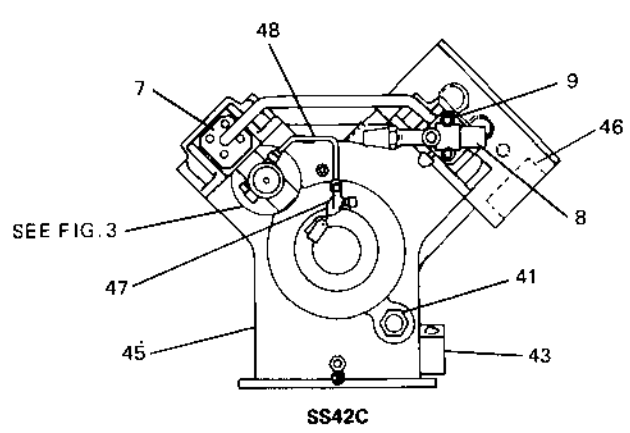
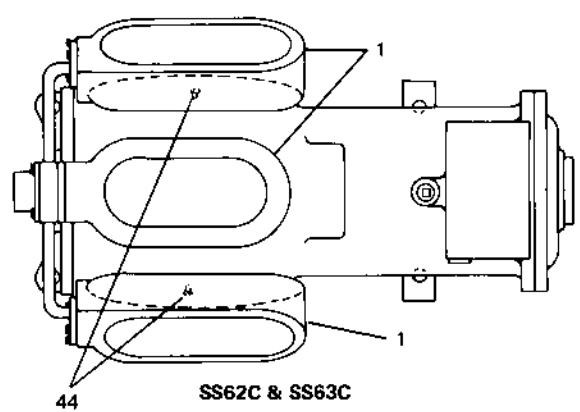
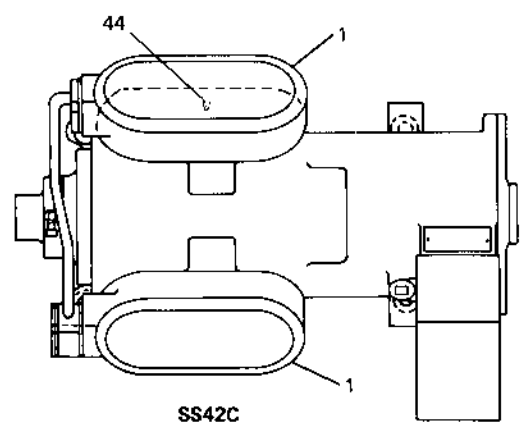
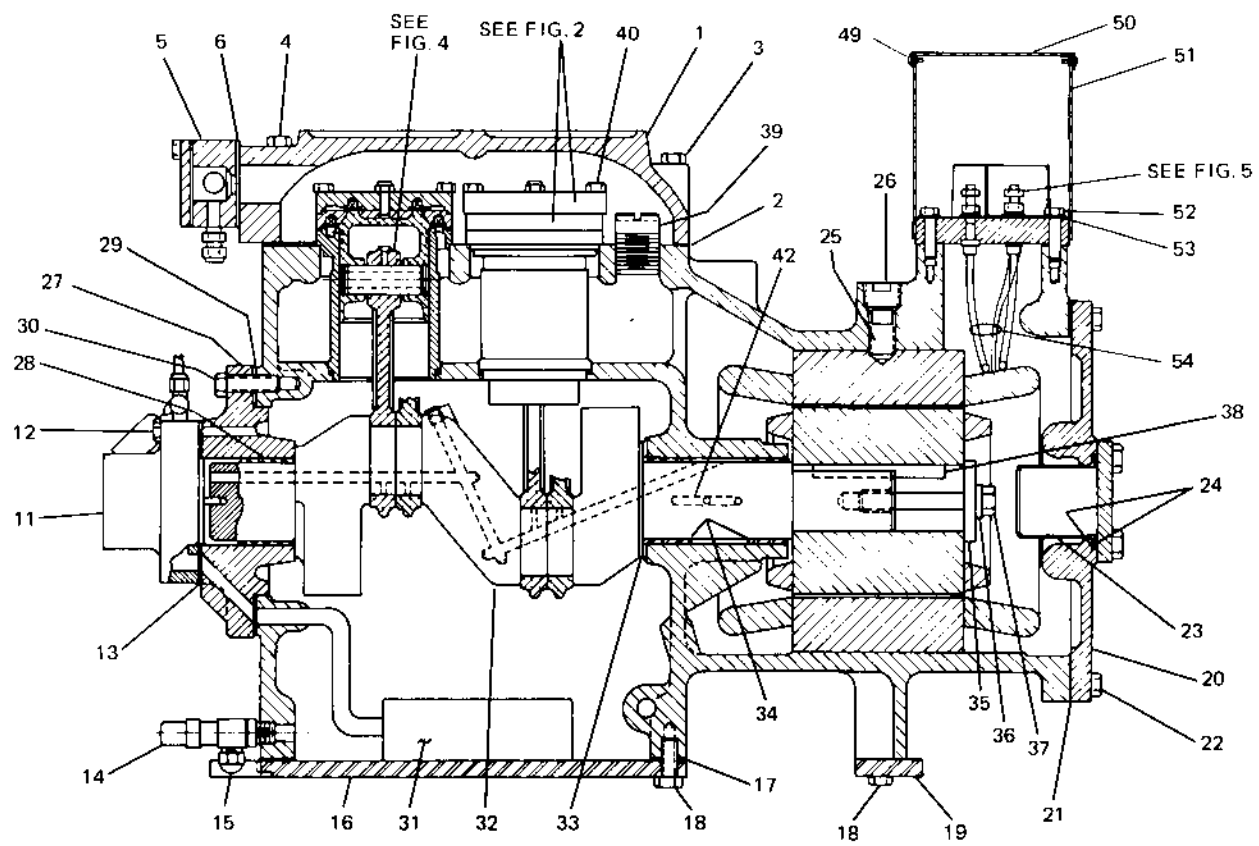
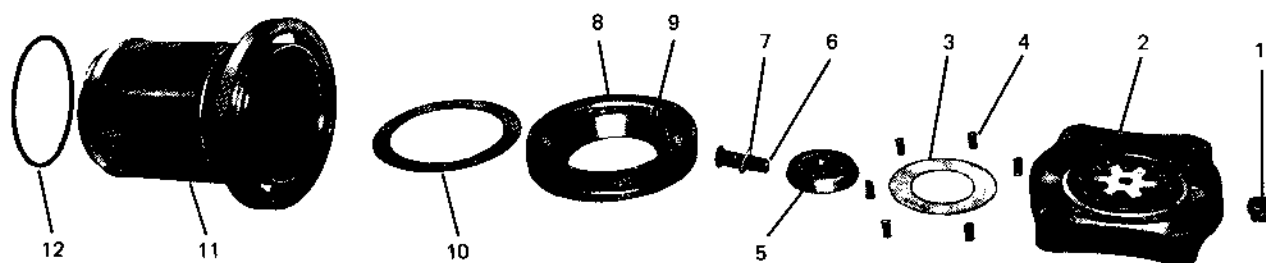


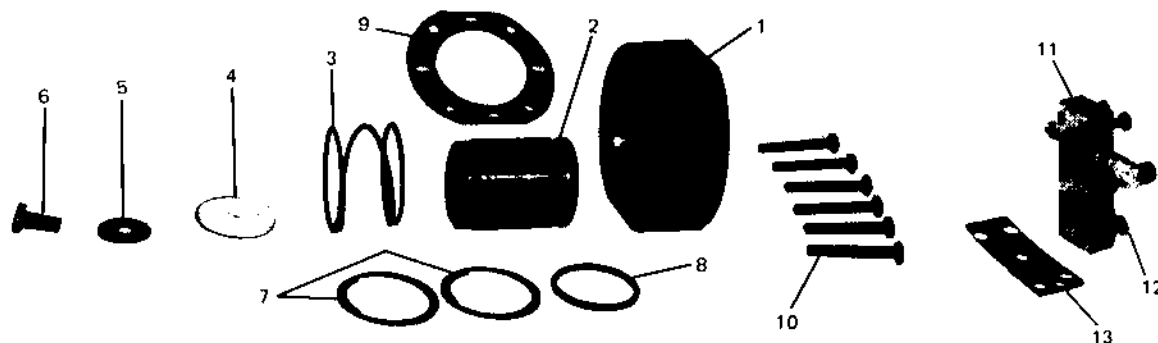
FIG. 1 -

Item No.	Description	SS42C	SS62C	SS63C
1	Head, Compressor	065-25000	065-25000	065-25000
2	Gasket, Compressor Head	070-06899	070-06899	070-06899
3	Bolt, Compressor Head 7/16 X 3 (12 Per Head)	021-09576	021-09576	021-09576
4	Bolt, Compressor Head 7/16 X 3-1/2 (2 Per Head)	021-12703	021-12703	021-12703
5	Manifold, Discharge	365-25010	365-25009	365-25009
6	Gasket, Disch. Manifold to Top Head	065-25008 (2 Req'd.)	065-25008 (3 Req'd.)	065-25008 (3 Req'd.)
7	Screw, Discharge Manifold to Top Head 5/16" Hex Hd X 1"	021-01433 (4 Req'd.)	021-01433 (8 Req'd.)	021-01433 (8 Req'd.)
8	Screw, Discharge Manifold to Top Head (At Stop Valve) 5/16" Soc. Hd.	021-01447 (2 Req'd.)	021-16173 (4 Req'd.)	021-16173 (4 Req'd.)
9	Bolt, Stop Valve to Manifold & Top Head 5/16" Hex Hd X 1-3/4	021-01448 (2 Req'd.)	—	—
10	Bolt, Stop Valve to Manifold 1/2" Hex X 2-1/2"	—	021-01589 (4 Req'd.)	021-01589 (4 Req'd.)
11	Discharge Stop Valve	See Page 6	See Page 6	See Page 6
12	Pump, Oil	026-20297	026-20297	026-20297
13	Screw, Oil Pump to Bearing Head 1/4" X 1-3/4"	021-02739 (6 Req'd.)	021-02739 (6 Req'd.)	021-02739 (6 Req'd.)
14	Gasket, Oil Pump to Bearing Head	065-24499	065-24499	065-24499
15	Valve, Oil Charging	022-01582	022-01582	022-01582
16	Cap, Flare	023-00977	023-00977	023-00977
17	Plate, Bottom Cover	065-24938	065-24938	065-24938
18	Gasket, Bottom Cover to Housing	065-24939	065-24939	065-24939
19	Bolt, Bottom Cover to Housing 7/16" X 1-1/8"	021-01536 (20 Req'd.)	021-01536 (20 Req'd.)	021-01536 (20 Req'd.)
20	Foot	065-24958	065-24958	065-24958
21	Cover, Motor End	065-24941	065-24942	065-25118
22	Gasket, Motor Cover to Compressor	065-23094	065-23094	065-23094
23	Bolt, Motor Cover to Compressor 7/16" X 1-3/8"	021-01541	021-01541	021-01541
24	Suction Stop Valve	See Page 6	See Page 6	See Page 6
25	Screen, Suction Strainer	026-16010	026-16011	026-16011
26	Gasket, Suction Strainer Screen	028-00540 (2 Req'd.)	028-00864 (2 Req'd.)	028-00864 (2 Req'd.)
27	Plug, Stator Locking	021-00882	021-00882	021-00882
28	Plug, Pipe 3/4"	023-04208	023-04208	023-04208
29	Bearing Head Assembly with Bearing Bearing Only (Pump End)	365-24349	365-24349	365-24349
30	Gasket, Bearing Head to Compressor	029-09052	029-09052	029-09052
31	Bolt, Bearing Head to Compressor 7/16" X 1-3/8"	065-24330	065-24330	065-24330
32	Strainer, Oil	021-01541	021-01541	021-01541
33	Crankshaft	365-24348	365-24348	365-24348
34	Collar, Thrust	365-24471	365-24472	365-24944
35	Bearing (Motor End) (2 Req'd.)	029-06183	029-06183	029-06183
36	Washer (Crankshaft)	029-09052	029-09052	029-09052
37	Lockwasher (Crankshaft)	065-24340	065-24340	065-24340
38	Bolt (Crankshaft)	021-05294	021-05294	021-05294
39	Key (Rotor to Crankshaft)	021-11115	021-11115	021-11115
40	Valve, Relief	063-21673	062-47458-023	062-47458-023
41	Bolt, Valve Cage to Compressor	022-03871	022-03871	022-03871
42	Sight Glass	021-01510	021-01510	021-01510
43	Pin, Roll	026-17581	026-17581	026-17581
44	Crankcase Heater	029-07238	029-07238	029-07238
45	Orifice Plug	See Page 6	See Page 6	See Page 6
46	Housing, Compressor	065-25113	065-25113 (2 Req'd.)	065-25113 (2 Req'd.)
47	Motor Protector Module	065-24937	065-24931	065-24931
48	Tee	See Page 6	See Page 6	See Page 6
49	Unloader Tube	022-04060	023-08544	023-08544
50	Screw Tap	365-25121	365-24998 (2 Req'd.)	365-24998 (2 Req'd.)
51	Terminal Box Cover	021-13725 (6 Req'd.)	021-13725 (6 Req'd.)	021-13725 (6 Req'd.)
52	Terminal Box	065-24551	065-24551	065-24551
53	Bolts	365-24550	365-24550	365-24550
54	Washer	021-01442	021-01442	021-01442
55	Tie Wrap	021-05166	021-05166	021-05166
		025-10138	025-10138	025-10138



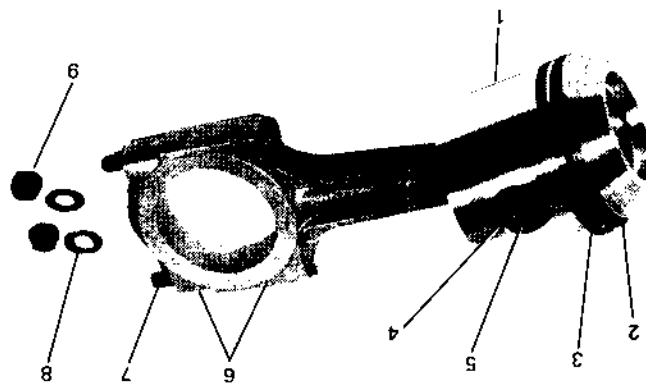
Item No.	Description	Part No.
1	Discharge Valve Cage Ass'y. (Includes Items 1 - 7)	365-24678
2	Nut, Hex, Locking	021-09610
3	Valve, Discharge	065-24600
4	Spring, Valve (6 Req'd.)	065-24832
5	Plate, Valve	029-15292
6	Screw	065-03031
7	Gasket	021-01068
8	Suction Valve Plate Ass'y. (Includes Items 8 - 10)	028-00574
9	Plate, Suction Valve	365-24679
10	Spring, Suction Valve (6 Req'd.)	065-24601
11	Valve, Suction	029-15292
12	Sleeve, Cylinder	065-24831
	O Ring	065-24933
		028-07198

FIG. 2 — COMPRESSOR VALVES & CYLINDER SLEEVE



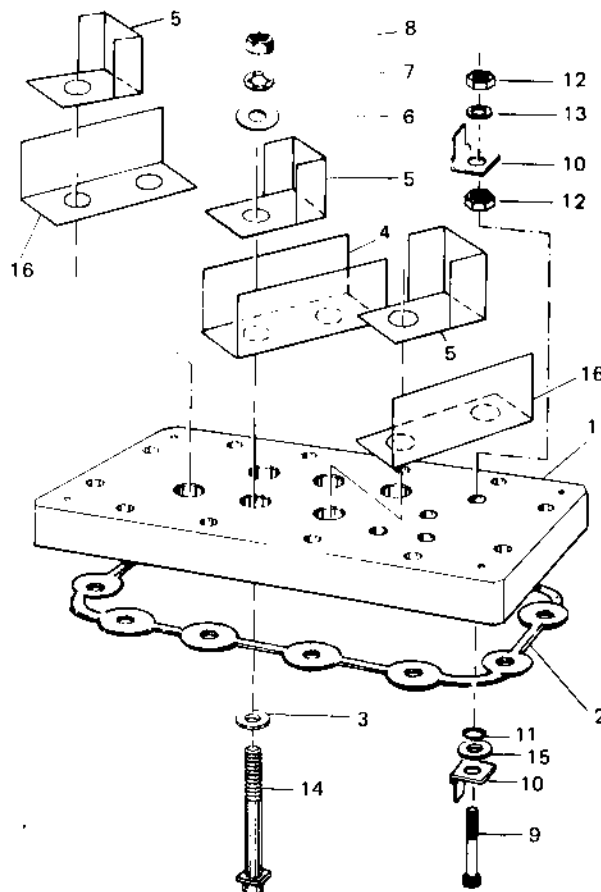
Item No.	Description	Part No.
1	Unloader Assembly (Includes Items 1 - 8)	365-24964
2	Cover, Unloader	065-24959
3	Piston, Unloader	065-24960
4	Spring	029-18109
5	Seat, Unloader	028-10189
6	Washer	021-16172
7	Cap Screw	021-01418
8	Ring, Retainer (2/Unloader)	029-18125
9	O Ring	028-10576
10	Gasket, Unloader Cover to Compressor	065-24961
11	Bolt, Unloader Cover to Compressor	021-08317
12	Unloader Solenoid	See Page 6
13	Screw, Unloader Solenoid to Unloader Cover (4/Unloader)	021-01392
	Gasket, Unloader Solenoid to Unloader Cover	065-24962

FIG. 3 — UNLOADER ASSEMBLY



Item No.	Description	Part No.
1	Piston Ass'y. (includes Items 1 - 5)	
	SS42C, SS62C	365-24141
	SS63C	365-25148
	Piston, Bare	
	SS42C, SS62C	065-23812
2	Ring, Plain	029-03525
3	Ring, Oil	029-06182
4	Pin, Piston	029-13884
5	Ring, Retaining (2 Req'd.)	029-13764
6	Connecting Rod Ass'y.	365-00374
7	Bolt	065-24373
8	Washer	021-01262
9	Nut	021-09610

FIG. 4 — PISTON AND CONNECTING ROD



Item No.	Description	Part No.
1	Block, Terminal (Phenolic)	025-18426
2	Gasket, Terminal Block	070-15282
3	Gasket, Terminal Bolt	064-36152
4	Spacer, Insulating (1 Req'd.)	065-23627
5	Spacer, Insulating (3 Req'd.)	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
16	Spacer, Insulating (2 Req'd.)	065-24385

FIG. 5 — MOTOR TERMINAL BLOCK (PHENOLIC TERMINAL BLOCK)

REPLACEMENT COMPRESSORS*, **

CURRENT CODE	CURRENT	SS42C	SS62C	SS63C
-17	200-3-60	365-24976-002	365-24977-002	365-24978-002
-28	230-3-60	365-24976-003	365-24977-003	365-24978-003
-46	460-3-60	365-24976-004	365-24977-004	365-24978-004
-58	575-3-60	365-24976-005	365-24977-005	365-24978-005
-63	220-3-50	365-24976-006	365-24977-006	365-24978-006
-64	346-3-50	365-24976-007	365-24977-007	365-24978-007

*Replacement Compressor Part Numbers shown above include initial oil charge but do not include crankcase oil heater, motor protector module, or suction and discharge stop valves. (Order separately from following chart.)

CRANKCASE OIL HEATER	025-19347-001	120 VOLTS
	025-19347-002	240 VOLTS
MOTOR PROTECTOR MODULE	025-20791-001	120 VOLTS
	025-20791-002	240 VOLTS

STOP VALVES	SS42C	SS62C	SS63C
SUCTION	022-03727-003	022-01393	022-01394
DISCHARGE	022-03422	022-03727-003	022-03727-003

**Replacement Compressor Part Numbers shown above include "P.E." Unloader Solenoid Valve(s) but do not include Solenoid Coil(s). Production Compressors were built with either "P.E." or Sporlan Solenoid Valves. Solenoid Valves are interchangeable but Solenoid Coils are not interchangeable. (Order correct Coil and/or Valve from following chart.)

VALVE MANUFACTURER	VALVE PART NO. (LESS COIL)	SOLENOID COIL PART NO.	
		120 VOLT	230 VOLT
P.E.	025-25145	025-16572-003	025-16572-001
SPORLAN	025-25147	025-25146	025-25146

**York
International
Corporation**

**Applied
Systems**

**Post Office
Box
1592-3688**

**York
Pennsylvania
17405-1592**

**Telephone
717 771 7890**

YORK.

YORK has a policy of continuous product improvement, and reserves the right to change specifications and designs without notice.

Printed in U.S.A.

Form 180.40-RP2(1084)

Copyright © by York International Corporation 1988 ALL RIGHTS RESERVED

TP 3M 788 .30

Codes: SN, RNP