

YORK®

HERMETIC AND OPEN TURBOPAK CENTRIFUGAL LIQUID CHILLING UNITS

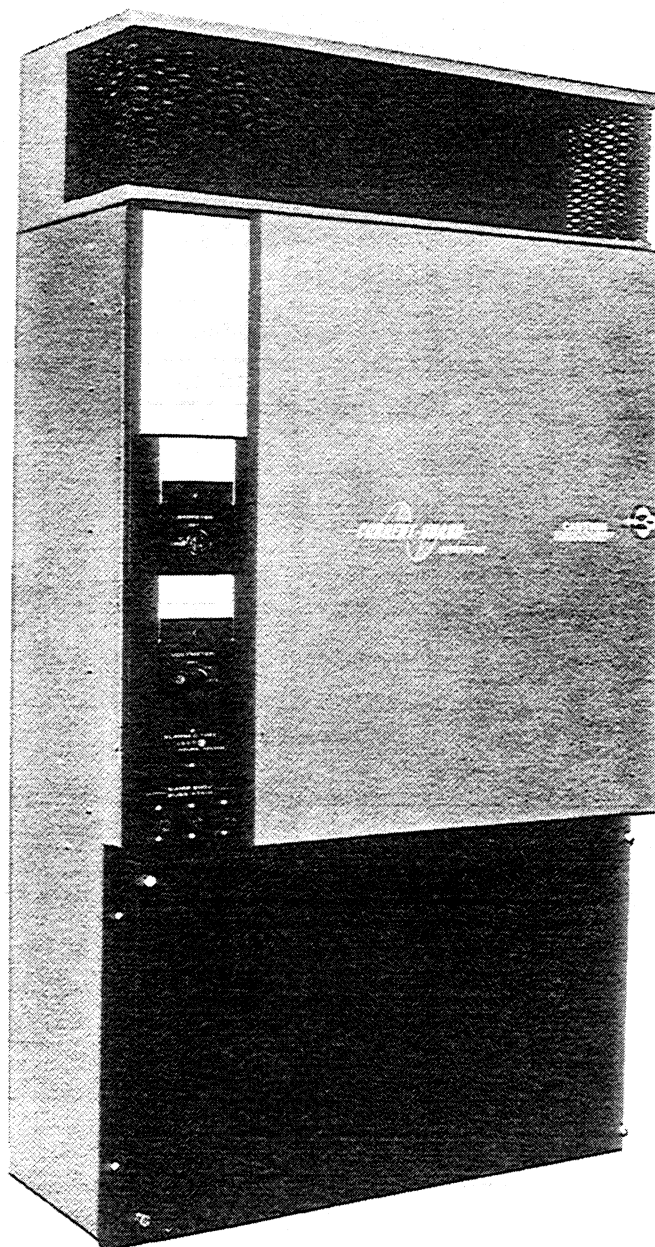
RENEWAL PARTS

Supersedes: (See Back Cover)

493

Form 160.44-RP1.4

SOLID STATE STARTER MODELS SSS-7E-A, SSS-9E-A, & SSS-14E-A



 **-CURRENT-GUARD-**
STARTER

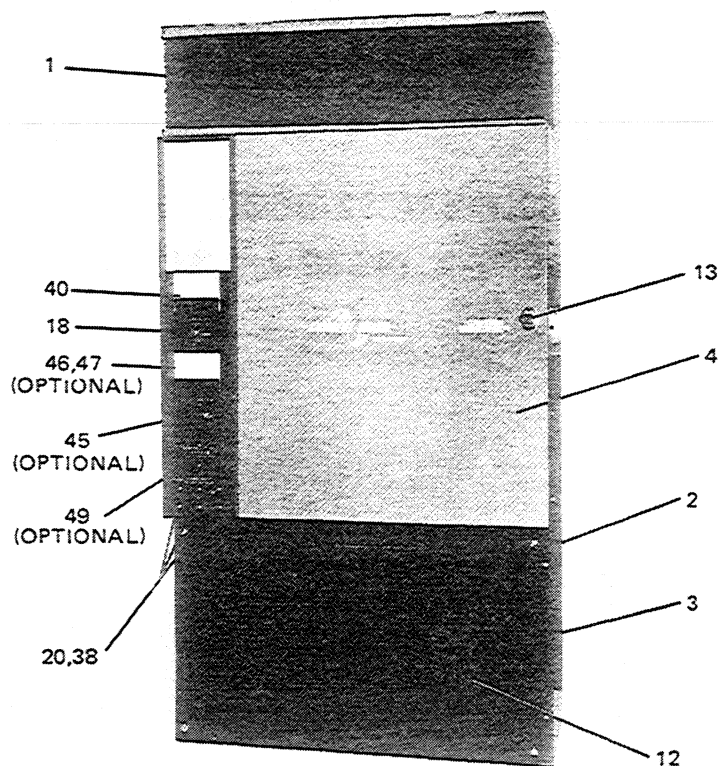


FIG. 1 — YORK—CURRENT-GUARD—SOLID STATE STARTER

SOLID STATE STARTER COMMON PARTS

ITEM	DESCRIPTION	QUAN.	FIG.	PART NO.
1	Cover Top (Fan Guard)	1	1	371-00306
2	Cover Lower (Power Wiring Guard)	1	1	371-00332
3	Cover Filter	1	1	371-00043
4	Door	1	1	371-00007
5	Panel, Fibre Heatsink Compartment	1	4	371-00080
6	Angle, Bus Bar	1	5 & 7	007-00324
7	Bar, Bus - Input	3	5	071-00321
8	Bar, Bus - Output	3	5	071-00322
9	Insulator, Standoff - 2"	3	5	025-20979
10	Insulation	3	6	071-00099
11	Fan	2	3	325-19071-001
12	Filter	1	1	026-22233
13	Fastener, Pawl (Lock and Keys)	1	1	021-13025
14	Screw, Pan (Nylon) 1/4-20 UNC x 3/8 Lg.	2	4	021-14649
15	Terminal Block	12	2	025-18867
16	Terminal Block - End Section	2	2	025-13981
17	Strip Marker	1	3	025-19044
18	Switch	1	1	024-18577
19	Transformer	2	2	325-16601-007
20	Fuse Holder	3	1 & 2	025-20974
21	Relay - 24VDC	3	2	024-18504
22	Relay - 120VAC	1	2	024-18505
23	Control, Gate Driver *	1	2	031-00222
24	Block Terminal - 3 Pole	1	3	025-20973
25	Strip Marker	1	3	025-20935
26	Lug Terminal	1	8	025-20625
27	Strip Marker	1	3	025-20980
28	Insulator Standoff - 2-3/4"	3	5 & 7	025-20978
29	Bar Lug	6	7	071-00107

*See page 7

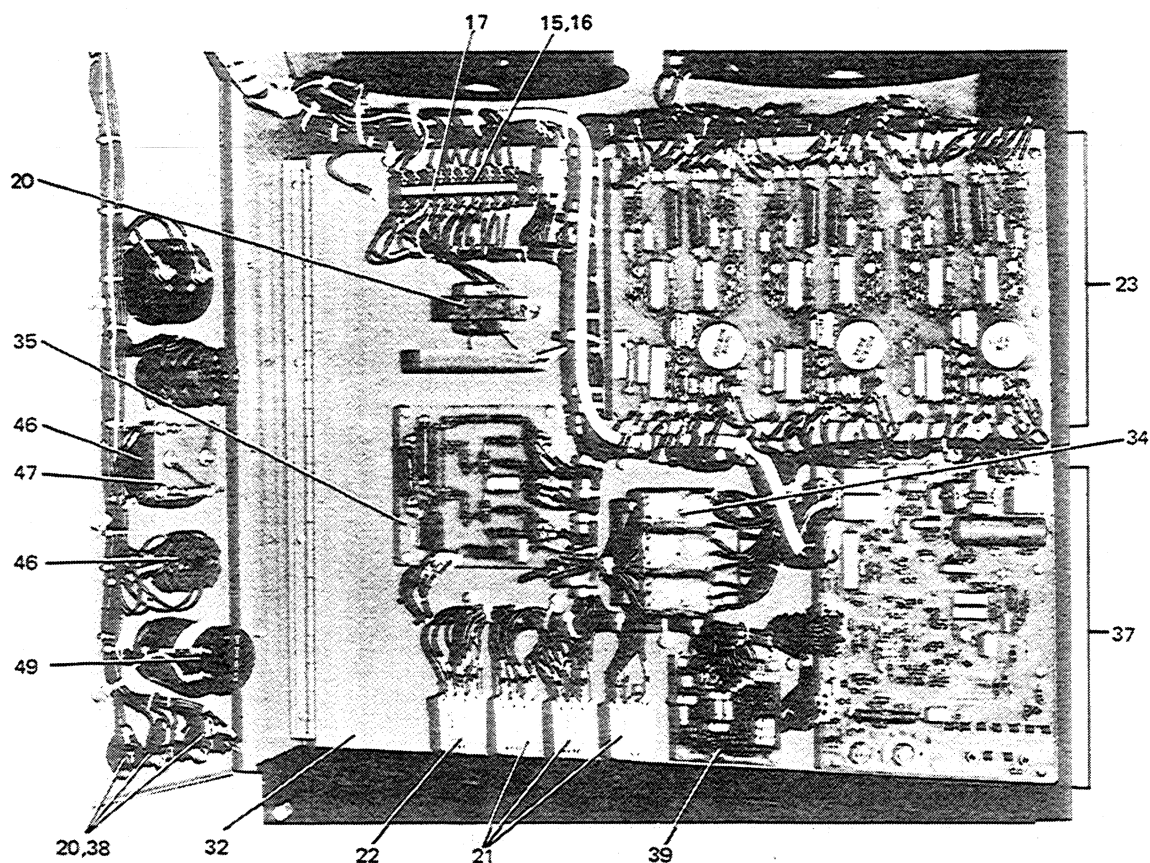


FIG. 2 - SOLID STATE CONTROL PANEL

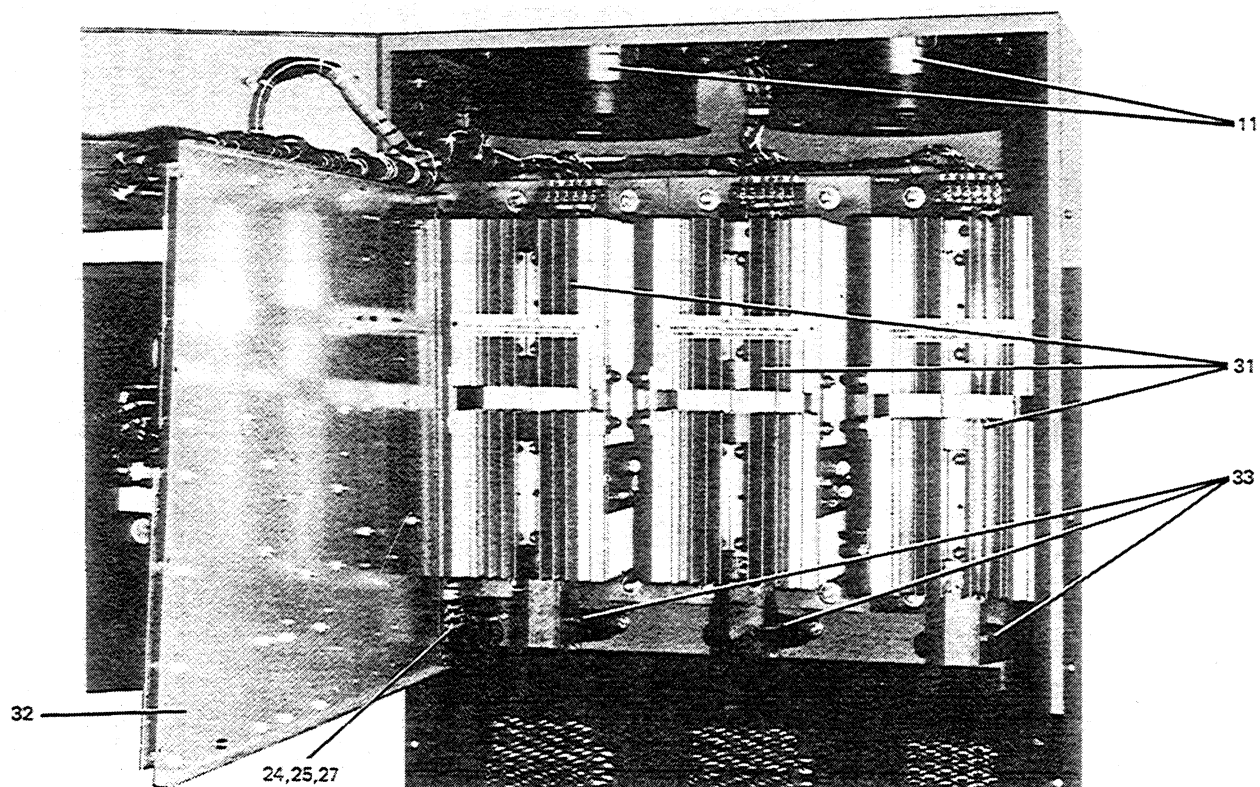


FIG. 3 - HEAT SINK COMPARTMENT

SOLID STATE START VARIABLE PARTS

ITEM	DESCRIPTION	SSS-9E-17A		SSS-9E-28A		SSS-9E-46A		SSS-9E-58A		SSS-9E-50A		SEE FIG.
		PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	
31	Switch, (SCR - Heat Sink)*	371-00328-001	3	371-00328-005	3	371-00328-006	3	371-00328-007	3	371-00328-006	3	1
32	Door	371-00337	1	371-00337	1	371-00335	1	371-00335	1	371-00336	1	2 & 3
33	Current, Transformer (Feedback)	025-18960	3	025-18960	3	025-18960	3	025-18960	3	025-18960	3	3
34	Gate Driver Transformer-30WYE	325-20947-001	1	315-20948-002	1	325-20948-001	1	325-20950-001	1	325-20949-001	1	2
35	Control, High Voltage	031-00220-001	1	031-220-001	1	031-00220-002	1	031-00220-003	1	031-00220-002	1	2
36	Control, DV/DT	031-00010-001	3	031-00010-001	3	031-00010-002	3	031-00010-003	3	031-00010-002	3	6
37	Control, Logic	031-00221-002	1	031-00221-002	1	031-00221-002	1	031-00221-002	1	031-00221-002	1	2
38	Fuse	025-20977	3	025-20977	3	025-20975	3	025-20975	3	025-20976	3	1 & 2
39	Temperature Control	031-00049-001	1	031-00049-001	1	031-00049-001	1	031-00049-001	1	031-00049-001	1	2
40	Ammeter**	025-20957	1	025-20957	1	025-20957	1	025-20957	1	025-20957	1	1
41	Lug, Terminal	025-19698	18	025-19698	18	025-19698	18	025-19698	18	025-19698	18	5

ITEM	DESCRIPTION	SSS-7E-17A		SSS-7E-28A		SSS-7E-40A		SSS-7E-58A		SSS-7E-50A		SEE FIG.
		PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	
31	Switch, (SCR - Heat Sink)*	371-00328-002	3	371-00328-002	3	371-00328-003	3	371-00328-004	3	371-00328-003	3	1
32	Door	371-00337	1	371-00337	1	371-00335	1	371-00335	1	371-00336	1	2 & 3
33	Current, Transformer (Feedback)	025-19307	3	025-19307	3	025-19307	3	025-19307	3	025-19307	3	3
34	Gate Driver Transformer-30WYE	325-20947-001	1	315-20948-002	1	325-20948-001	1	325-20950-001	1	325-20949-001	1	2
35	Control, High Voltage	031-00220-001	1	031-00220-001	1	031-00220-002	1	031-00220-003	1	031-00220-002	1	2
36	Control, DV/DT	031-00010-001	3	031-00010-001	3	031-00010-002	3	031-00010-003	3	031-00010-002	3	6
37	Control, Logic	031-00221-001	1	031-00221-001	1	031-00221-001	1	031-00221-001	1	031-00221-001	1	2
38	Fuse	025-20977	3	025-20977	3	025-20975	3	025-20975	3	025-20976	3	1 & 2
39	Temperature Control	031-00049-001	1	031-00049-001	1	031-00049-001	1	031-00049-001	1	031-00049-001	1	2
40	Ammeter**	025-20956	1	025-20956	1	025-20956	1	025-20956	1	025-20956	1	1
41	Lug, Terminal	025-19698	12	025-19698	12	025-19698	12	025-19698	12	025-19698	12	5

ITEM	DESCRIPTION	SSS-14E-17A		SSS-14E-28A		SSS-14E-46A		SSS-14E-58A		SSS-14E-50A		SEE FIG.
		PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	PART NO.	QUAN.	
31	Switch, (SCR - Heat Sink)*	371-00328-008	3	371-00328-008	3	371-00328-009	3	371-00328-010	3	371-00328-009	3	1
32	Door	371-00337	1	371-00337	1	371-00335	1	371-00335	1	371-00336	1	2 & 3
33	Current, Transformer (Feedback)	025-18960	3	025-18960	3	025-18960	3	025-18960	3	025-18960	3	3
34	Gate Driver Transformer-30WYE	325-20947-001	1	315-20948-002	1	325-20948-001	1	325-20950-001	1	325-20949-001	1	2
35	Control, High Voltage	031-00220-001	1	031-00220-001	1	031-00220-002	1	031-00220-003	1	031-00220-002	1	2
36	Control, DV/DT	031-00010-001	3	031-00010-001	3	031-00010-002	3	031-00010-003	3	031-00010-002	3	6
37	Control, Logic	031-00221-003	1	031-00221-003	1	031-00221-003	1	031-00221-003	1	031-00221-003	1	2
38	Fuse	025-20977	3	025-20977	3	025-20975	3	025-20975	3	025-20976	3	1 & 2
39	Temperature Control	031-00049-002	1	031-00049-002	1	031-00049-002	1	031-00049-002	1	031-00049-002	1	2
40	Ammeter**	025-20957	1	025-20957	1	025-20957	1	025-20957	1	025-20957	1	1
41	Lug, Terminal	025-19698	18	025-19698	18	025-19698	18	025-19698	18	025-19698	18	5

* See page 8
** See page 7

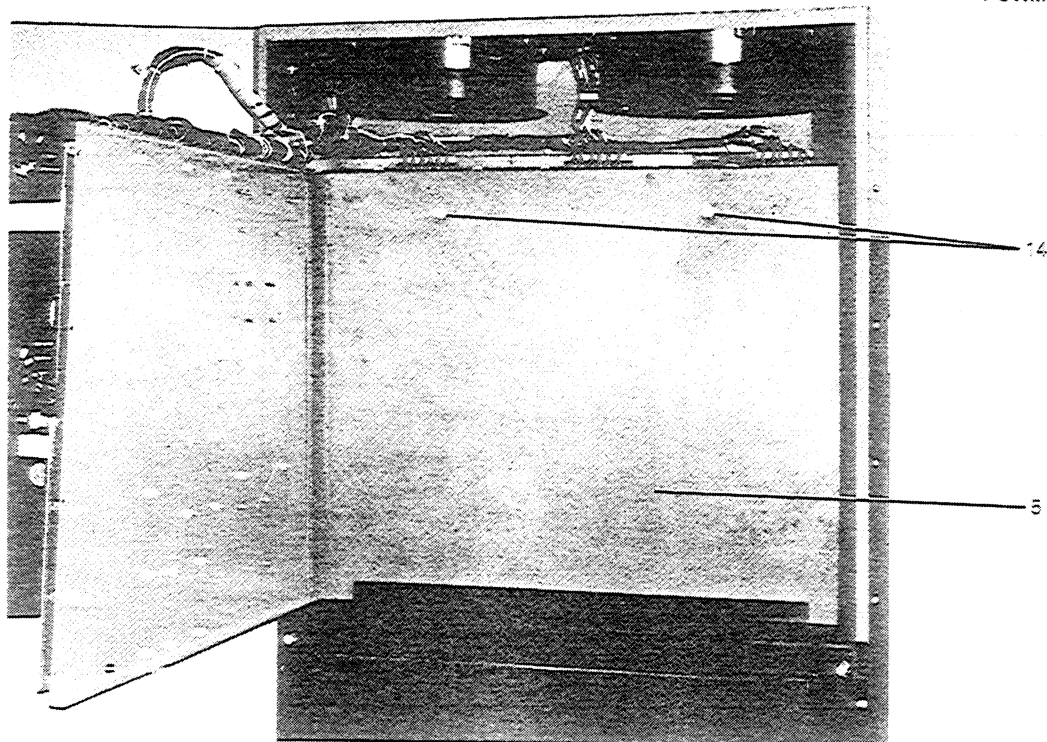


FIG. 4 - CONTROL PANEL OPEN-SHOWING FIBER PANEL IN PLACE

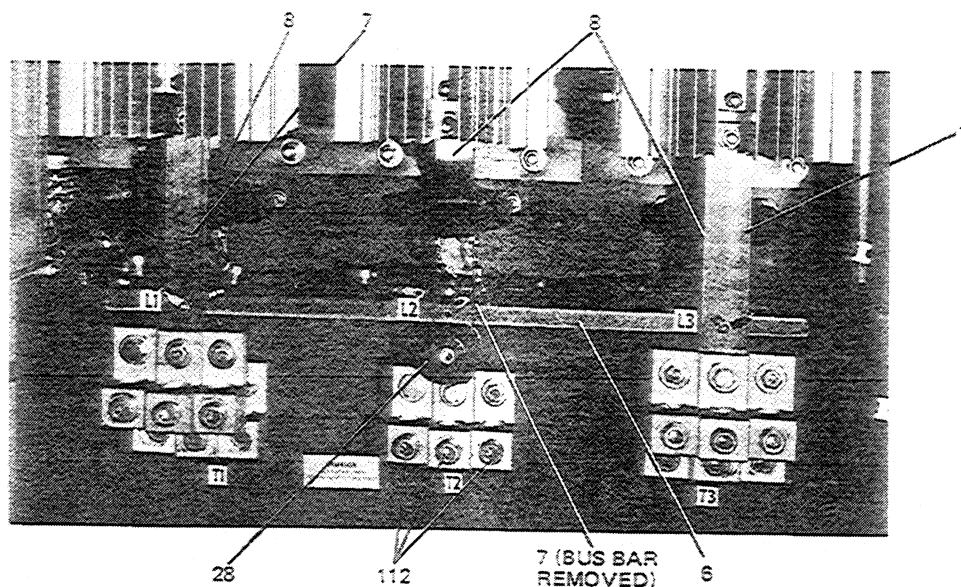


FIG. 5 - BUS BARS

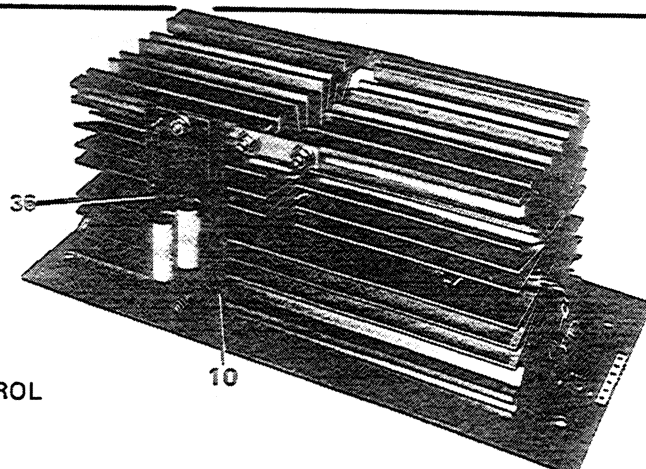
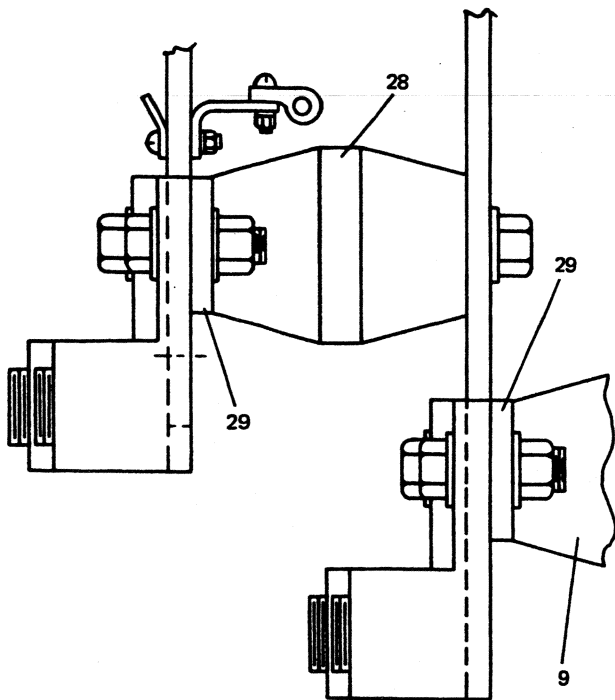
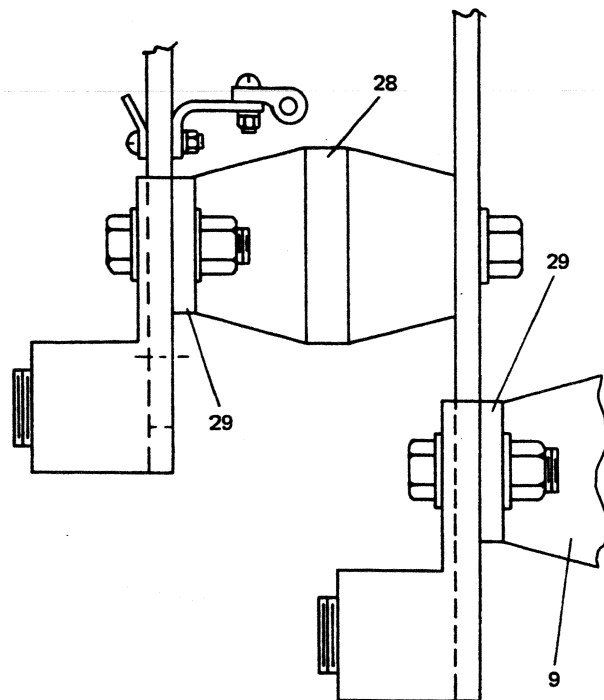


FIG. 6 - HEAT SINK AND DV/DT CONTROL



FOR MODELS SSS-9 & SSS-14



FOR MODELS SSS-7

FIG. 7 — POWER TERMINAL LUGS

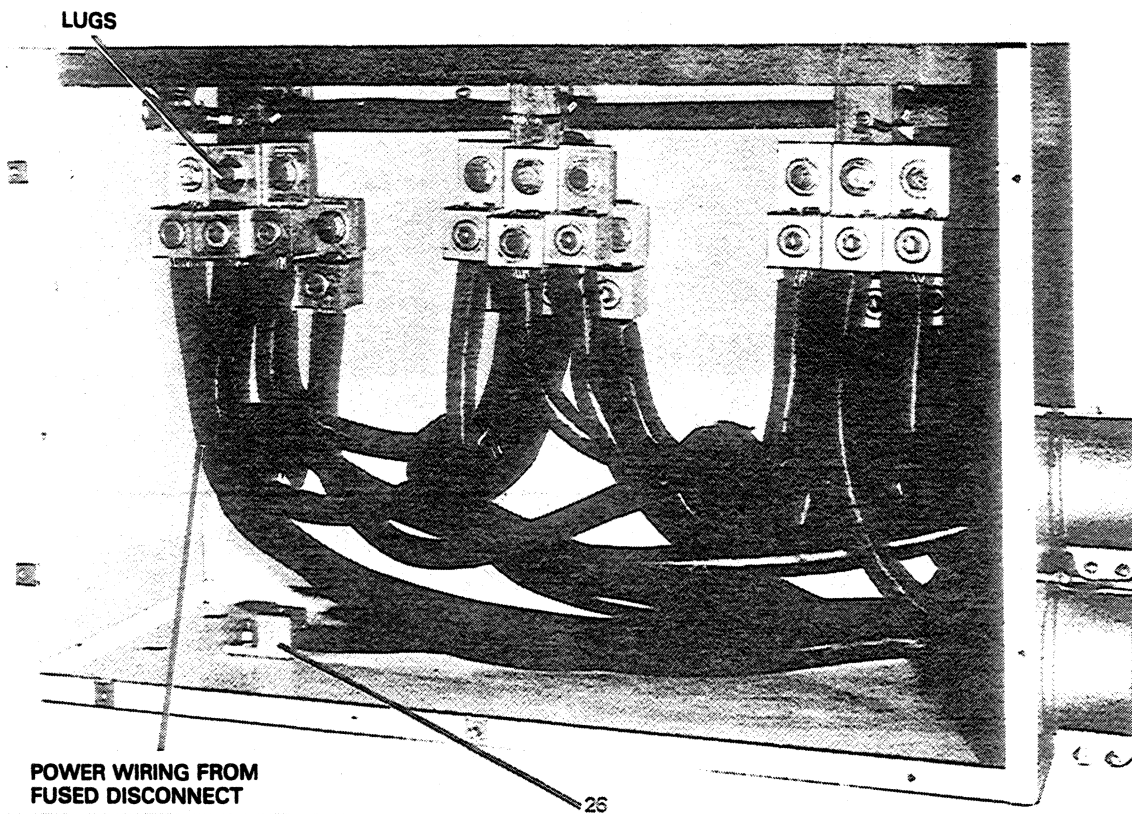


FIG. 8 — POWER SECTION COMPARTMENT

3 PHASE VOLTMETER & SWITCH (OPTIONAL EQUIPMENT)

ITEM	DESCRIPTION	FIG.	QUAN.	PART NUMBERS		
				SSS7, 9 & 14 - 17A SSS7, 9 & 14 - 28A	SSS7, 9 & 14 - 46A SSS7, 9 & 14 - 50A	SSS7, 9 & 14 - 58A
				371-00326-002	371-00326-003	371-00326-004
45	Switch	1 & 2	1	024-18576	024-18576	024-18576
46	Meter, Volt	1 & 2	1	025-20953	025-20954	025-20955
47	Control Meter	1 & 2	1		031-00021-001	031-00021-002

INDICATOR ELAPSED TIME INDICATOR (OPTIONAL EQUIPMENT)

ITEM	DESCRIPTION	FIG.	QUAN.	60 Hz 371-00316-002	50 Hz 371-00316-003
49	Indicator - Elapsed Time	1 & 2	1	325-20933-001	025-20933-002

SERVICE BULLETINS

WIRING HARNESS, PART NO. 471-00914-000
TO BE USED WHEN REPLACING
GATE DRIVER BOARD PART NO. 031-00222-000 WITH A
REPLACEMENT BOARD 031-00585-002
(See page 2)

York Service has arranged to make available the above subject harness which allows the Part No. 031-00585-002 Gate Driver Board to be installed in place of the Part No. 031-00222-000 Gate Driver Board which was manufactured by Vectrol and is no longer available as a new part. The reason for this change is that over the past year many York Service Districts have purchased the reworked Vectrol boards, but have failed to return the defective "core" boards in exchange. The result is that we are now out of stock on the repaired boards. We regret that substitution of the board along with the above harness will be considerably more costly.

Also, a word of caution. The adapter harness may be easily mis-wired. There is no possible way to make installation of this harness to be a foolproof installation. Be certain to trace-out all wires before applying power. Reversal of just two wires can cause the starter to burn up. Please be careful!

Solid State Starter Dual Scale Ammeters

(See page 4)

Monoshell compressor solid state starters and dual shell compressor solid state starters (Style A) are supplied with single scale ammeters as follows:

SSS Model	Ammeter
7E	700A
9E	1400A
14E	1400A

This has presented a problem in isolated cases. Specifically, the poor gradient resolution at the lower end of the scale prevents accurate current readings when the chiller is running at light loads.

If you have this situation at your jobsite and are receiving complaints from your customer, you may order the ammeter and switch that will be used on the new "B" style solid state starter to be released in the near future. This ammeter has a dual scale. The desired scale is selected by a pushbutton located in the ammeter switch assembly. Further, the ammeter and switch are directly interchangeable with the existing components. The following are the required parts:

SSS Model	Ammeter	Switch	Resistor
7E	025-23910-001 (350A/700A)	024-22531	031-00741
9E	025-23910-002 (700A/1400A)	"	"
14E	025-23910-002 (700A/1400A)	"	"

The required wiring info is included in Form 160.45-PA2.3A (Codepak liquid chillers wiring diagram, style B solid state starter). The resistor should be installed on the ammeter switch between terminals #8 and #2.

This retrofit should be performed only where required. It is not intended to be a wholesale change-out of parts. Per Mr. Fred Ziffer (Manager, EM Product Services) the cost of the involved labor will be paid by the District Service office and/or customer. The cost of the required parts will be paid by the warranty account (via "SD" form).



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