



CodePak™

CENTRIFUGAL LIQUID CHILLERS

RENEWAL PARTS

Supersedes: See Back Cover

Form 160.48-RP3 (1197)

**MICROCOMPUTER CONTROL CENTER
PART NO. FOR 371-01200-002**

**ELECTROMECHANICAL STARTER, SOLID STATE STARTER
AND TURBO-MODULATOR APPLICATIONS**



28455A

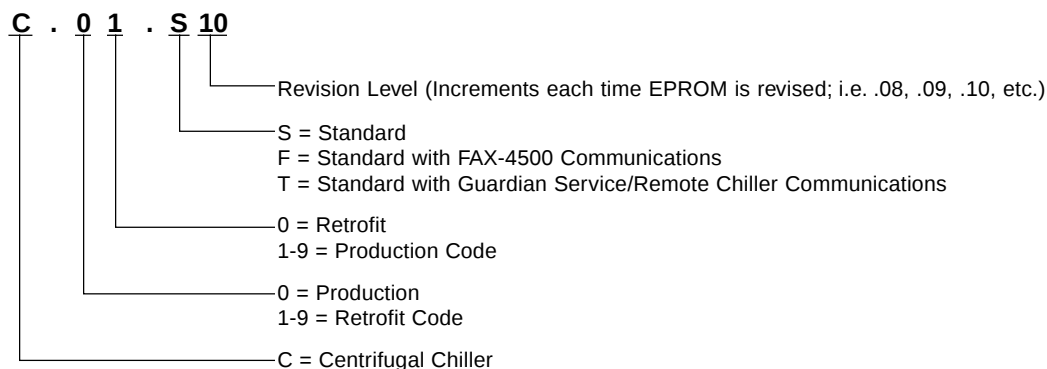
ITEM	DESCRIPTION	FIG. NO	QTY.	PART NUMBER
1	Relay (1R)	1	1	024-23962-000
2	Transformer	1	1	025-27911-000
3	Fuse, 5 AMP	1	1	025-14019-000
4	Fuse 15 AMP	1	1	025-24384-000
5	Fuse Holder	1	2	025-13991-000
6	Control, Micro Board (Note 2)	1	1	031-01065-000/-001/-002
7	Control, Power Supply	1	1	031-01080-000
8	Control, Digital Input	1	1	031-00935-000
9	Control, Relay Board - Production until 8/93 - Superseded by	9 9	1 1	031-00932-001 031-00932-002
10	Fastener, Pawl Adj.	2	1	021-17252-000
11	Keypad (Standard) (Simplified Chinese Language) (Traditional Chinese Language)	2 1 1	1 1 1	024-24606-000 024-27236-000 024-27237-000
12	Display	3, 4, 5	1	031-00775-001, Note 3
13	Switich, Rocker	2	1	024-23143-000
14	Suppressor	1	1	031-00808-000
15	Control, TM II Interface (Turbo-Modulator Apps. Only)	3	1	031-00957-000
16	Cable, Fiber Optic – Current Setpoint (Turbo-Modulator Apps. Only)	3	1	031-00894-000
17	Cable, Fiber Optic – Temperature Setpoint (Turbo-Modulator Apps. Only)	3	1	031-00893-000
18	Control, Current Module CM-2 (Electro-Mechanical Starter App. Only)	4	1	031-00947-000
19	Diode Bridge (Electro-Mechanical Starter App. Only)	4	1	031-00210-000
20	Resistor, Variable (Electro-Mechanical Starter App. Only)	4	2	025-20789-000
21	Control, Logic – 7L (Solid State Starter App. Only)	5	1	031-00936-002
22	Control, Logic – 14L (Solid State Starter App. Only)	5	1	031-00936-003
23	Control, Logic – 26L (Solid State Starter App. Only)	5	1	031-00936-004
24	Control, Logic – 33L (Solid State Starter App. Only)	5	1	031-00936-005
25	Control, Remote Reset (Customer Option)	1	Note 1	031-00814-000
26	Card File (Customer Option)	1	1	031-00827-000
27	IC, Real Time Clock – U16	1	1	031-00955-000
28	EPROM – U17	1	1	Table 1
29	Transducers (Note 4)	—	—	
	Condenser – R11 R123 R11/R123 R11/R123 (VSD application only)	1	1	025-28930-001 025-28930-101 025-29148-001 025-29148-009
	Evaporator – R11 R123 R11/R123			025-28930-002 025-28930-102 025-29148-002
	Oil Pressure (Low Side) – R11 R123 R11/R123			025-28930-003 025-28930-103 025-29148-003
	Oil Pressure (High Side) – R11 R123 R11/R123			025-28930-004 025-28930-104 025-29148-004
	Purge Pressure – R11 (Low Pressure Purge Unit) R123 R11/R123			025-28930-004 025-28930-104 025-29148-004
	Purge Pressure – R11/R123 (Pump-Assisted High Pressure Purge Unit)			025-29148-008
	Oil Pressure (High Side) Used On – R11			025-28930-005
	Monoshell Retrofits Only, Requires – R11/R123			025-29148-005
	Special EPROM 031-01097-010 or -011 or -012 (Refer to Table 1)			
30	Thermistors – Entering Chilled Water Temp. Leaving Chilled Water Temp. Entering Condenser Water Temp. Leaving Condenser Water Temp.			025-28935-000 025-28935-000 025-28935-000 025-28935-000

30	Thermistors (Cont'd.)	Entering and Leaving Chilled and Condenser Water Temp Thermistor with Threaded Cap Water Sensor Well with Threaded Top Oil Temperature Discharge Temperature			025-29964-000 026-32328-000 025-28936-000 025-28936-000
31	Cable, Ribbon – Micro Board J4		1	1	031-00950-000
32	Cable, Ribbon – Relay Board J1		1	1	031-00951-000
33	Cable, Ribbon – Display		3, 4, 5	1	031-00952-000
34	Cable, Ribbon – Digital Input Board J1		1	1	031-00953-000
35	Cable, Ribbon – Micro Board J2		1	1	031-00985-000
36	Voltage Transient Protection Module* for Micro Board RS-485 Serial Port (only used in units equipped with ISN FAX-4500 BAS connected to RS-485 Serial Port TB7) * If this Module is being installed for the first time, order kit #371-01477-000. Kit includes module and Installation Instructions		1	1	031-01586-000
	Kit, Retrofit – Simplified (Chinese Language display) (also see Fig. 6)		—	—	371-01708-003
	Kit, Retrofit – Traditional (Chinese Language display) (also see Fig. 6)		—	—	371-01708-006

- NOTES:** 1. If it is desired to remotely reset both chilled water setpoint and current limit setpoint, 2 ea. are required. If it is desired to remotely reset only one of these setpoints, 1 ea. are required.
2. Replacement Micro Boards are shipped without EPROMs. Remove EPROMs from defective board and use in replacement board. If new EPROM is required, refer to TABLE 1. Micro Board 031-01065-002 will be supplied after inventory of 031-01065-000 and -001 is depleted. (No change to operation of unit.)
3. Babcock VF-140-02 or IEE 33383-01.
4. -29148- series transducers supersede -28930- series transducers.

TABLE 1 – EPROMS (also see Fig. 6)

Order EPROMS by Part Number. The EPROM “VERSION” is an Alphanumeric Code that identifies the Application and Revision Level of the EPROM as follows:



PART NO.	VERSION	APPLICATION
031-01097-001	C.01F.11	R11/R123 YT CodePak with FAX-4500 Communications (Supersedes 031-0197-008)
031-01097-002	C.01T.11	R11/R123 YT CodePak with Guardian Service / Remote Chiller Communications
031-01097-005	C.10F.11	R11/R123 Monoshell Series 67-70 “E” Compressor with FAX-4500 Communications (Supersedes 031-10197-010)
031-01097-006	C.20F.11	R11/R123 Monoshell Series 67-70 “B” & “C” Compr. with FAX-4500 Communications (Supersedes 031-01097-011)
031-01097-007	C.30F.11	R11/R123 Monoshell Series 64 Compressor with FAX-4500 (Supersedes 031-01097-012)
031-01097-008	C.01S.10	Superseded by 031-01097-001
031-01097-010	C.10S.10	Superseded by 031-01097-005
031-01097-011	C.20S.10	Superseded by 031-01097-006
031-01097-012	C.30S.10	Superseded by 031-01097-007
031-01097-013	C.10T.11	R11/R123 Monoshell Series 67-70 “E” Compressor with Remote Chiller Communication
031-01074-001	C.01S.01-.09	Superseded by 031-01097-008
031-01074-003	C.10S.01-.09	Superseded by 031-01097-010
031-01074-004	C.20S.01-.09	Superseded by 031-01097-011
031-01074-005	C.30S.01-.09	Superseded by 031-01097-012

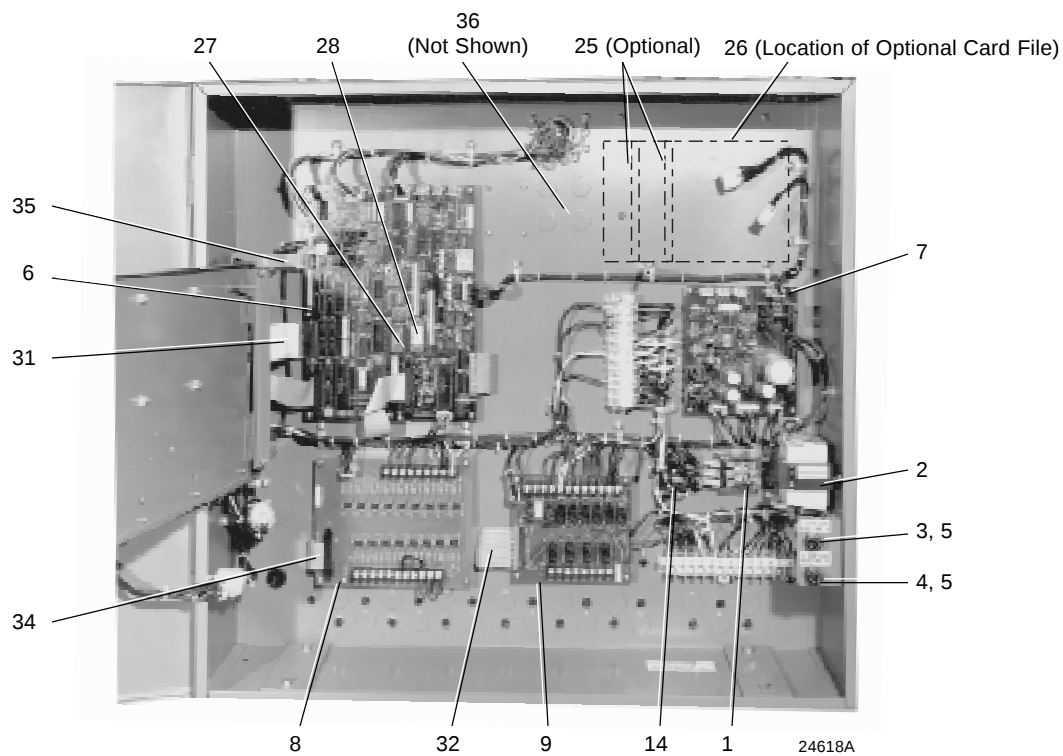


FIG. 1 – ISN CODEPAK CONTROL CENTER – DOOR AND HINGED PANEL OPEN

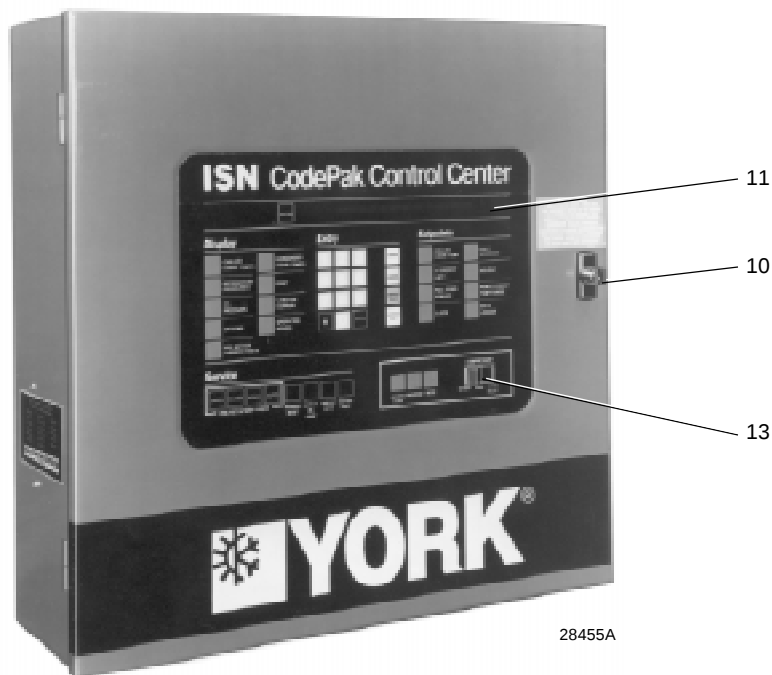


FIG. 2 – ISN CODEPAK CONTROL CENTER EXTERIOR

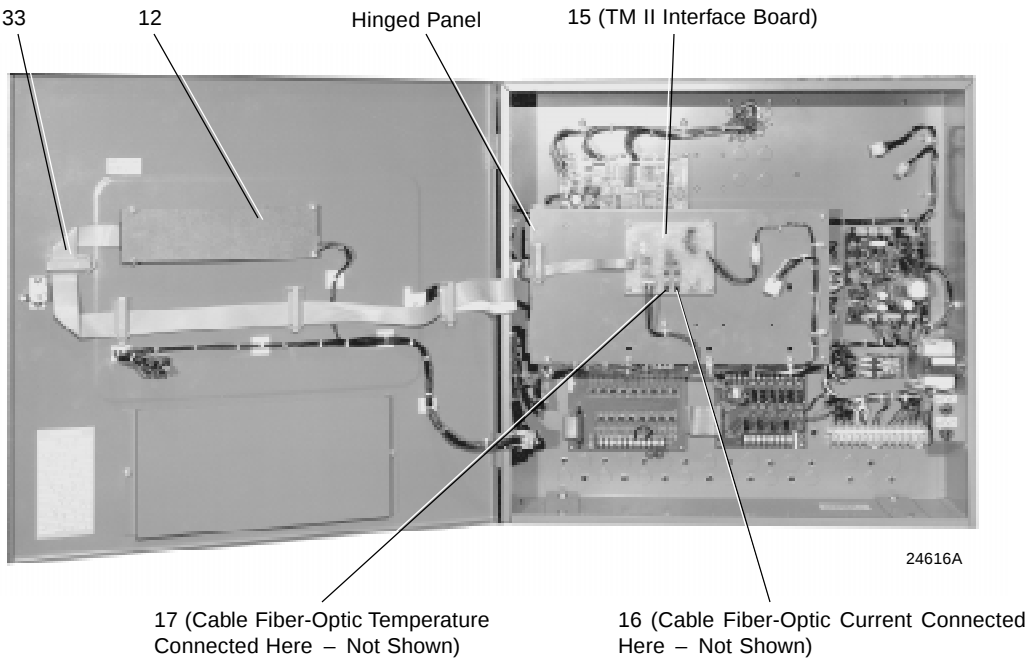


FIG. 3 - ISN CODEPAK CONTROL CENTER - DOOR OPEN - TURBO-MODULATOR II APPLICATIONS

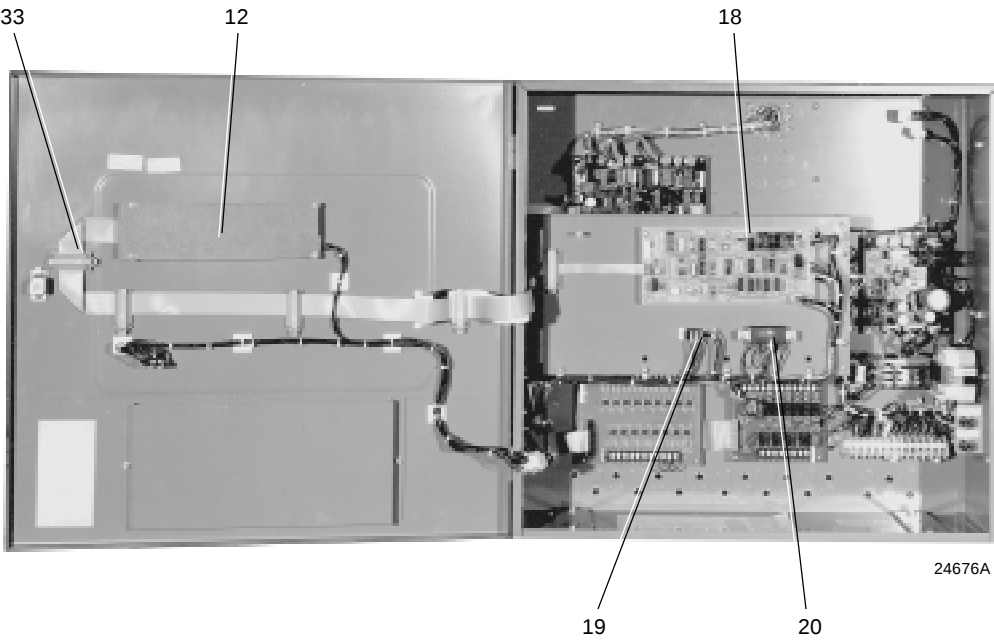


FIG. 4 - ISN CODEPAK CONTROL CENTER - DOOR OPEN - ELECTRO-MECHANICAL STARTER

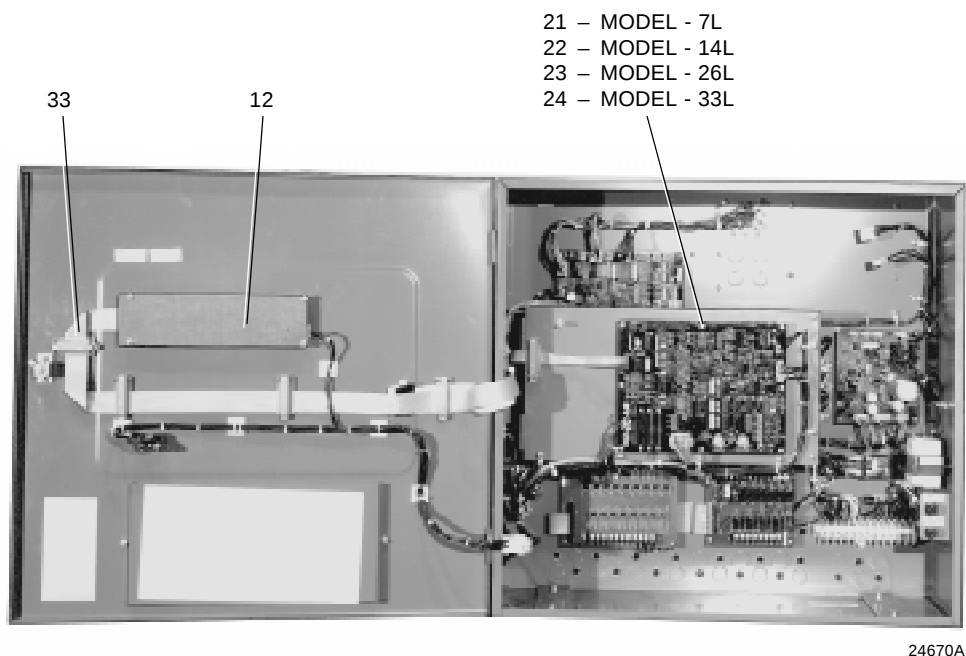


FIG. 5 – ISN CODEPAK CONTROL CENTER – DOOR OPEN – SOLID STATE STARTER APPLICATIONS

NOTES for FIG. 6:

Beginning on/ about April 1997, Chinese language displays will be supplied with either: two Simplified translation EPROMs or two Traditional translation EPROMs. If Simplified translation is desired, both of the Simplified EPROMs below are required. If Traditional translation is desired, both of the Traditional EPROMs below are required. The EPROM part numbers and on-board socket locations are as follows:

EPROM	TRANSLATION	SOCKET LOCATION
031-01698-001	Simplified	U13
031-01698-002	Simplified	U14
031-01698-003	Traditional	U13
031-01698-004	Traditional	U14

Chinese Language displays contained one EPROM (031-01638-001) (socket location U13) that translated to Simplified Chinese and one EPROM (031-01638-002) (socket location U14) that translated to Traditional Chinese. The desired translation was then selected by Program Jumper PT0, located on the Chinese language display board. Due to the addition of messages, two EPROMs are now required for each translation as described above. When equipped with these new EPROMs, Program Jumper PT0 can no longer be used to select between Simplified or Traditional translation. If one of these earlier version EPROMs listed in Fig. 6 fail, it must be replaced with two EPROMs as follows:

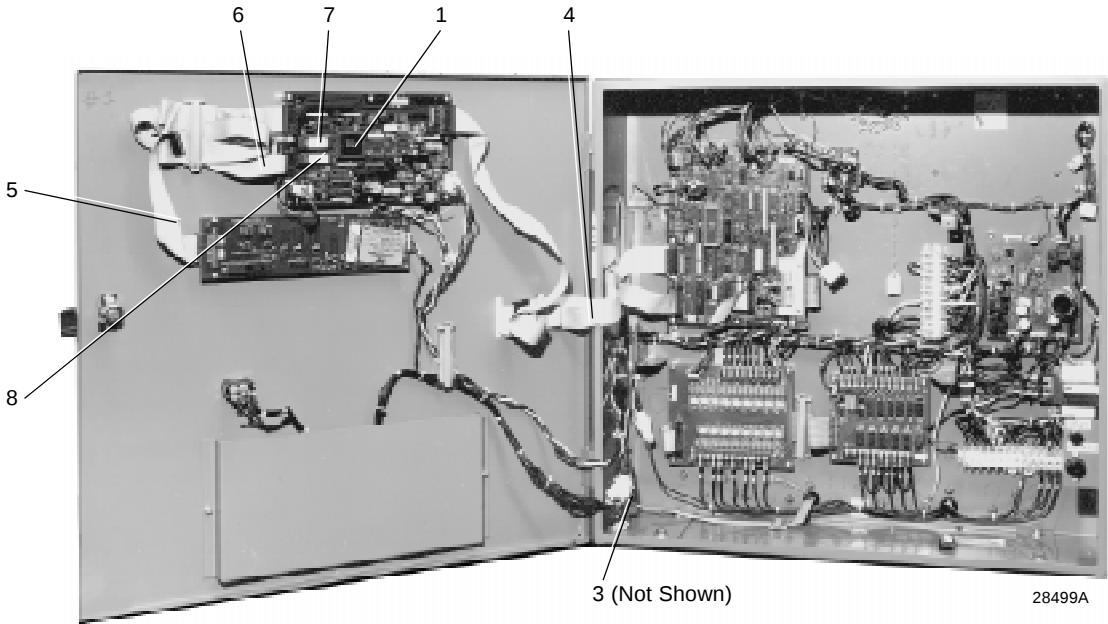
IF THIS EPROM FAILS:

REPLACE WITH:

PART NO.	LOCATION	TRANSLATION	PART NO.	LOCATION
031-01638-001	U13	Simplified	031-01698-001 – AND – 031-01698-002	U13 U14
031-01638-002	U14	Traditional	031-01698-003 – AND – 031-01698-004	U13 U14



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ITEM	DESCRIPTION	PART NO.
1	PC Board, Chinese Language Display	031-01616-000
2	Display, Chinese Language LCD Graphic	031-01653-000
3	Transformer, Chinese Language Display 115VAC / 24VAC	025-27911-000
4	Cable, Ribbon – Micro Board to Chinese Language Display	031-01647-000
5	Cable, Ribbon – Chinese Display Board to Vacuum Fluorescent Display	031-01646-000
6	Cable, Ribbon – Chinese Display Board to Chinese Language LCD Display	031-01645-000
7	EPROM – CC.01F.00 (IC-U13) R11/R123 YT CodePak – Simplified Chinese Language	031-01638-001*
8	EPROM – CC.01F.00 (IC-U14) R11/R123 YT CodePak – Traditional Chinese Language	031-01638-002*

*See Notes on page 6.

FIG. 6 – CHINESE LANGUAGE DISPLAY COMPONENTS



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Form 160.48-RP3 (1197)
Supersedes: 160.48-RP3 (993), 160.48-RP3 (SB1) (594), 160.48-RP3 (SB2) (195), 160.48-RP3 (SB3) (895),
160.48-RP3 (SB4) (696), 160.48-RP3 (SB5) (996), 160.48-RP3 (SB6) (797) & 160.48-RP3 (SB7) (997)

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