



**Millennium®
GAS-ENGINE-DRIVE CHILLERS**

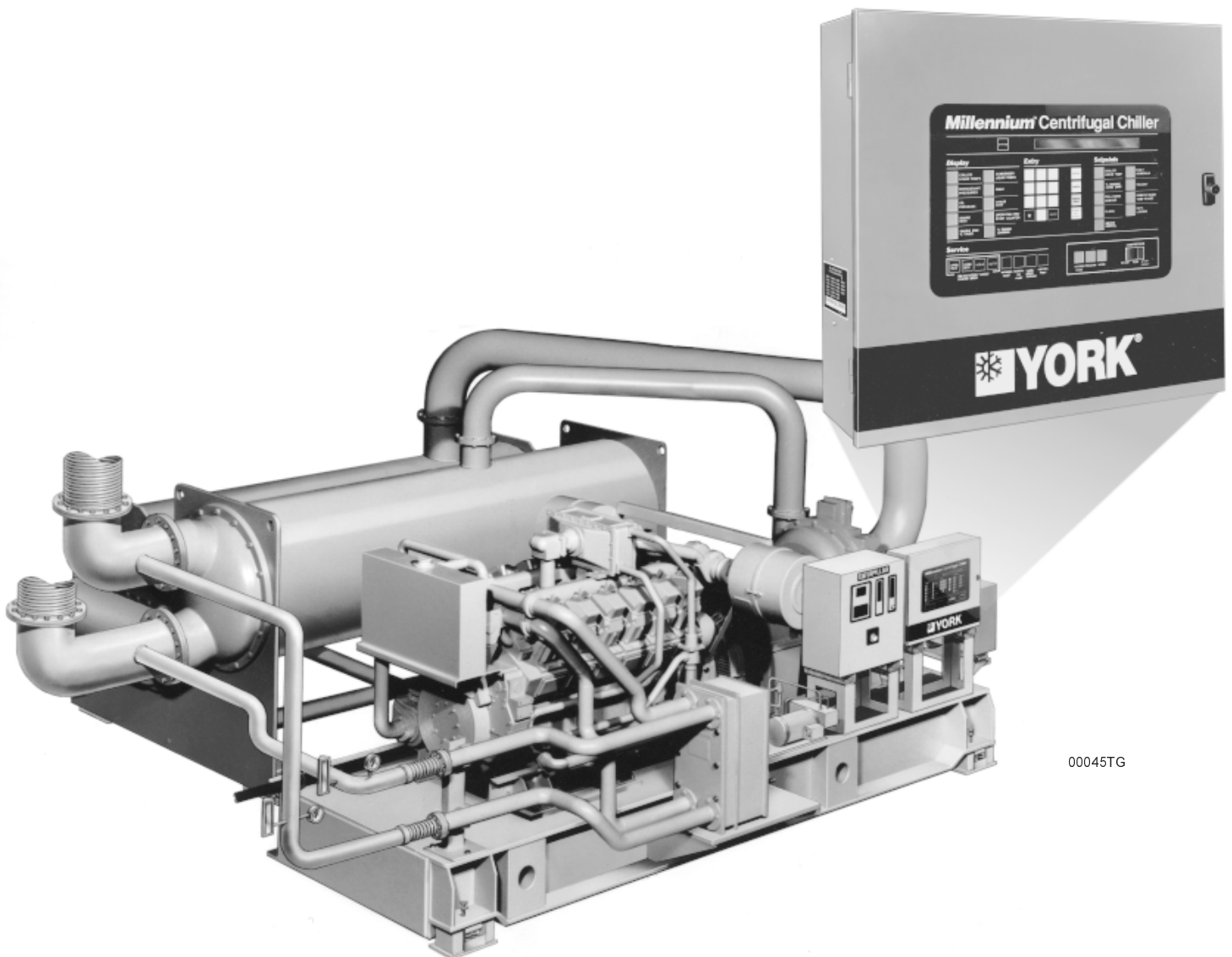
RENEWAL PARTS & PARTS LOCATION

Supersedes: See Back Cover

Form 160.60-RP2 (798)

**MICROCOMPUTER CONTROL CENTER
PART NO. 371-01469-000**

**MODEL YG
(DESIGN LEVEL A)**



00045TG

INDEX

Micro Panel	3-5
Transducers & Sensors Location	6
Ribbon Cable Terminations	7
Plug & Pin Part Numbers	8
RT Sensor Part Numbers	8
Direct Drive Vane Feedback Pot	9
Power Panel	10
Overview of Unit & Panels	11
Battery Charger	12
Vane Motor & Feedback Pot	12
Micro Panel	13
Caterpillar Control Panel	13
Engine Sensor Location	14
Pressure Transmitter Locations	14

FIGURE REFERENCE

Fig. 1	YORK Micro Panel Control Center (Inside)	4
Fig. 2	YORK Micro Panel Control Center (Door)	4
Fig. 3	YORK Micro Panel Control Center	4
Fig. 4	Micro Panel Control Board	5
Fig. 5	Transducers & Sensors Location	6
Fig. 6	Ribbon Cable Terminations	7
Fig. 7	YORK Power Panel	10
Fig. 8	Overview of Unit and Panels	11
Fig. 9	Battery Charger	12
Fig. 10	Vane Motor and Feedback Pot	12
Fig. 11	YORK Micro Panel	13
Fig. 12	YORK Micro Panel (Inside of Door)	13
Fig. 13	Caterpillar Control Panel	13
Fig. 14	Engine Sensor Locations	14
Fig. 15	Pressure Transmitters Location	14

HOW TO ORDER PARTS

Contact the local YORK District Service Office nearest to you to order the parts in the manual. Use the YORK Part Number when ordering your parts. For those parts in this manual which do not have YORK Part Numbers, order them by the description as described in this manual. (Give the form number and page number when ordering these parts.)

YORK MICRO PANEL

(See Figs. 1 thru 5)

ITEM	DESCRIPTION	QTY.	FIG. NO.	PAGE NO.	PART NO.
1	Relay (1R)	1	1	4	024-23962-000
2	Transformer (1T)	1	1	4	025-27911-000
3	Fuse (1FU), 5A	1	1	4	025-14109-000
4	Control, I/O Expansion Board (Note 3)	1	1	4	031-01580-000
5	Control, Power Supply	1	1	4	031-01080-000
6	Control, Digital Input	1	1	4	031-00935-000
7	Fastener, Pawl Adjustable	1	3	4	021-17252-000
8	Display	1	2	4	031-00775-001
9	Switch, Rocker	1	3	4	024-23143-000
10	Suppressor	1	1	4	031-00808-000
11	Control Micro Board (Note 2)	1	1	4	031-01065-001
12	Keypad	1	3	4	024-26915-000
13	EPROM, Programmed	1	4	5	031-01629-000
14	Control, Relay Board	1	1	4	031-01581-000
15	Fuse Holder (1FU)	1	1	4	025-13991-000
16	Control, Remote Reset (Cust. Option)	Note 1	1	4	031-00814-000
17	Card File (Customer Option)	1	1	4	031-00827-000
18	IC, Real Time Clock – U16	1	4	5	031-00955-000
19	Cable, Ribbon – I/O Ex. Board, J9, J10	2	1	4	031-01322-000
20	Cable, Ribbon – Relay Board J3	1	1	4	031-01323-000
21	Cable, Ribbon – Keypad	1	1	4	031-00950-000
22	Cable, Ribbon – Relay Board J1	1	1	4	031-00951-000
23	Cable, Ribbon – Display	1	2	4	031-00952-000
24	Cable, Ribbon – Digital Input Board, J1	1	1	4	031-00953-000
25	Cable, Ribbon – Micro Board, J2	1	1	4	031-01321-000
26	Transducers For YORK Panel:	—	—	—	—
	Cond. High Oil (R-134a Water or Brine)	1	5	6	025-28678-001
	Evaporator (R-134a Water or Brine)	1	5	6	025-28678-005
	Low Oil (R-134a Water or Brine)	1	5	6	025-28678-001
27	Fuse (2FU), 20A	1	1	4	025-28967-000
28	Fuse Holder (2FU)	1	1	4	025-17407-000
29	PRV Feedback Pot (Kit)	1	5	6	375-17779-000
30	Prox. Sensor	1	5	6	025-30472-000
31	Vane Motor	1	5	6	Refer to Mech. Chiller P.T.'s List 025-29165-000 — 024-15793-000 024-12144-000
32	High Press. Cutout	1	5	6	
33	1 LEP (Brine Only)	1	—	—	
34	Flow Switch (150 Lb.)	1	—	—	
35	Flow Switch (300 Lb.)	1	—	—	

NOTES:

1. If is desired to remotely reset both the leaving water temp. setpoint and the load limit setpoint, 2 each remote reset boards are required. Otherwise, only 1 each is required.
2. Replacement Micro Boards are supplied without EPROM. Remove EPROM from defective board and use in replacement board.
3. Use Part Number 031-01580-000 in the YG units. When this supply is depleted at YORK, you will receive the replacement I/O Expansion Board which is part number 031-01580-001. (This new part number is due to the addition of a 4-20mA. Input at J6 for the vibration sensor used only on the "YB" units.)

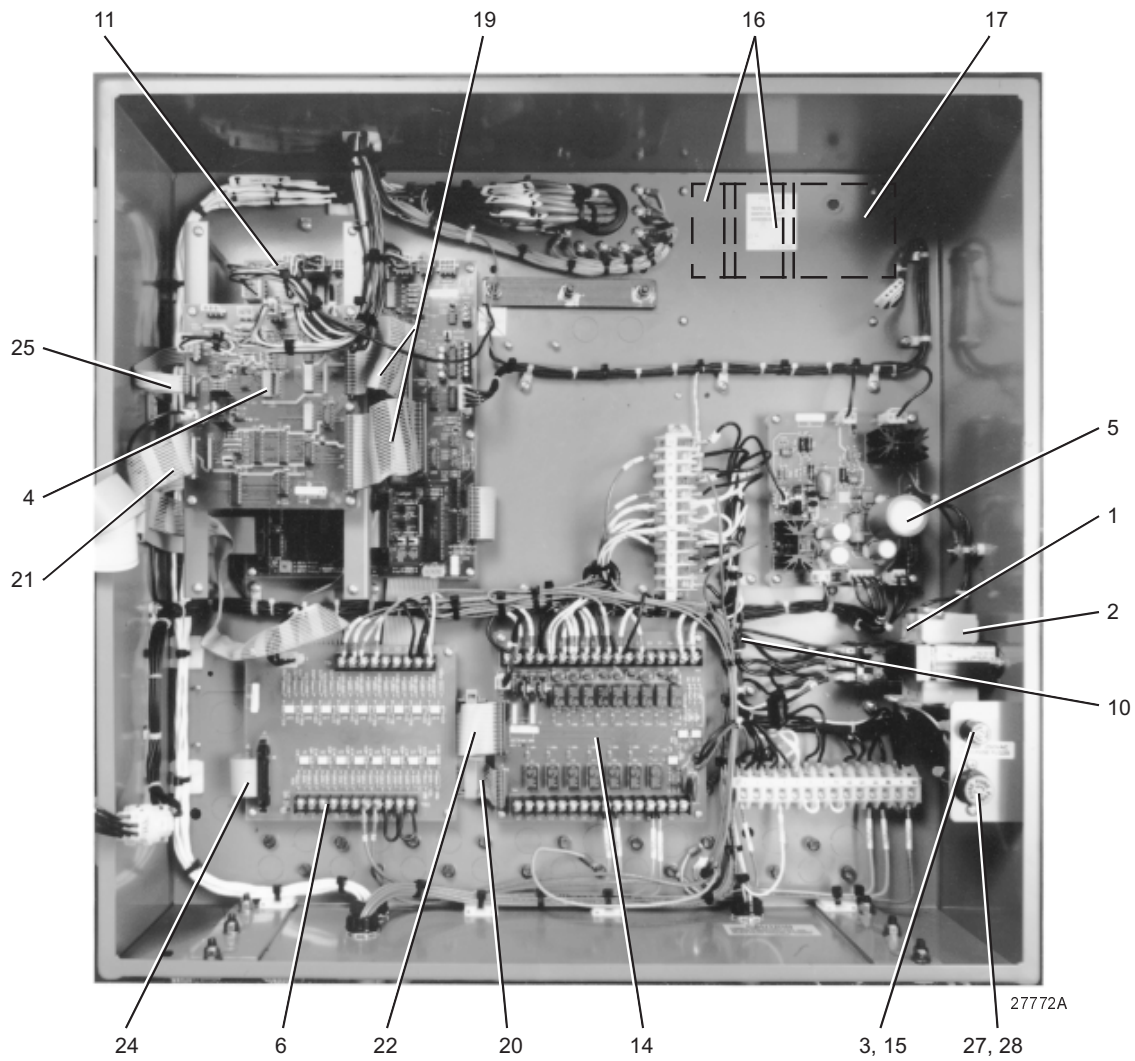


FIG. 1 – YORK MICRO PANEL CONTROL CENTER (INSIDE)



FIG. 2 – YORK MICRO PANEL CONTROL CENTER (DOOR OPENED)

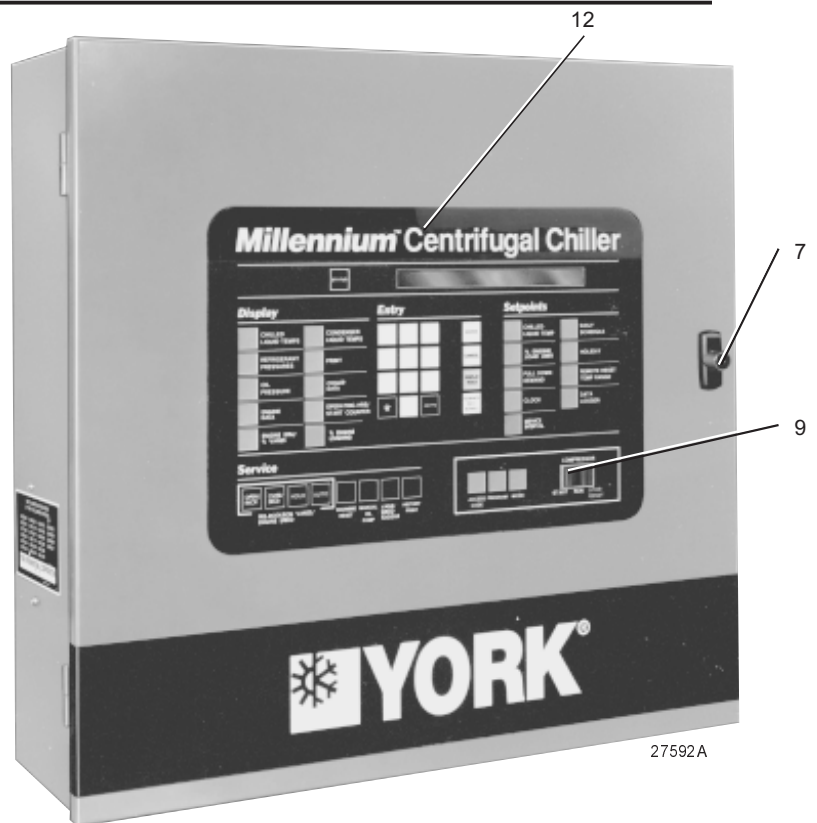


FIG. 3 – YORK MICRO PANEL CONTROL CENTER

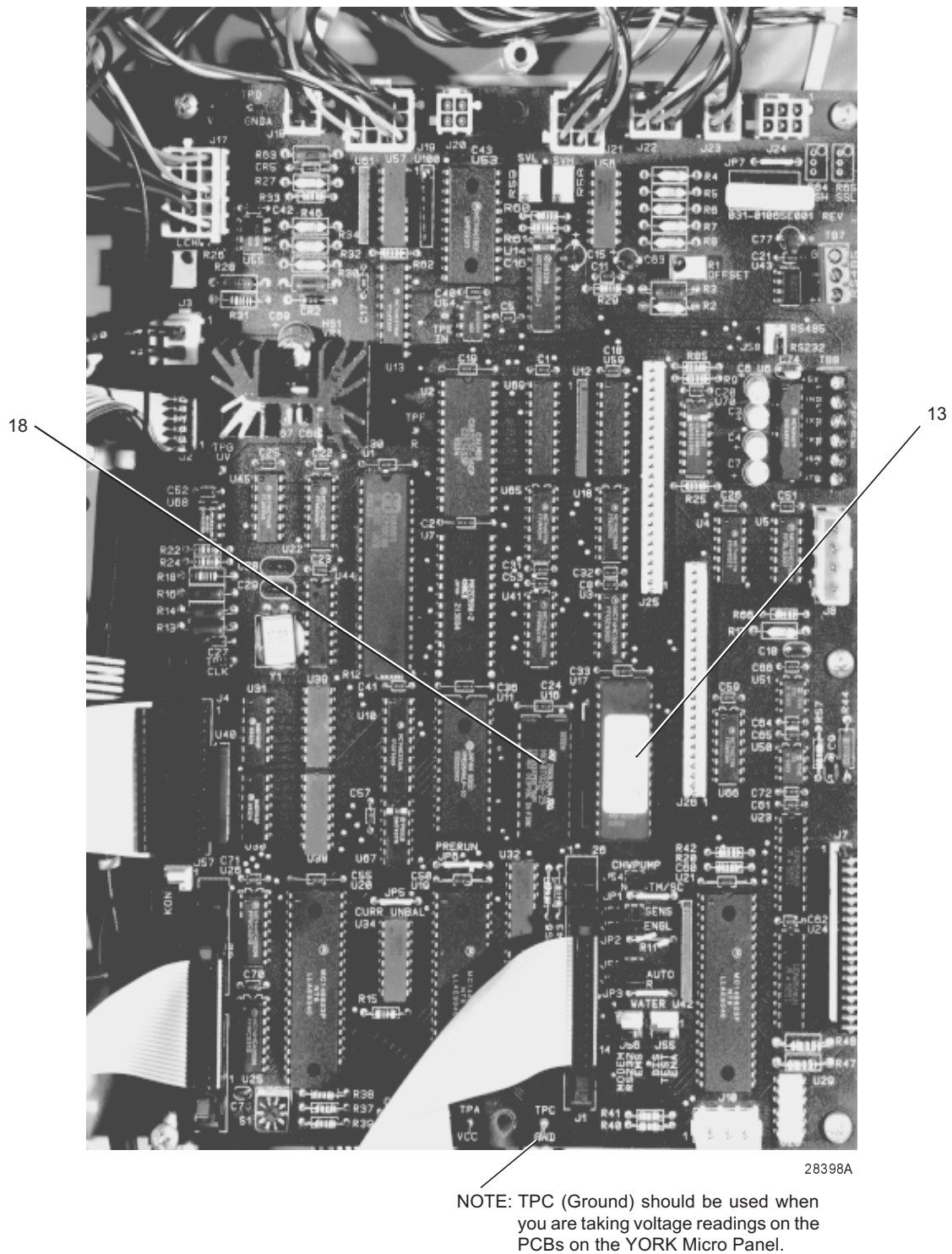
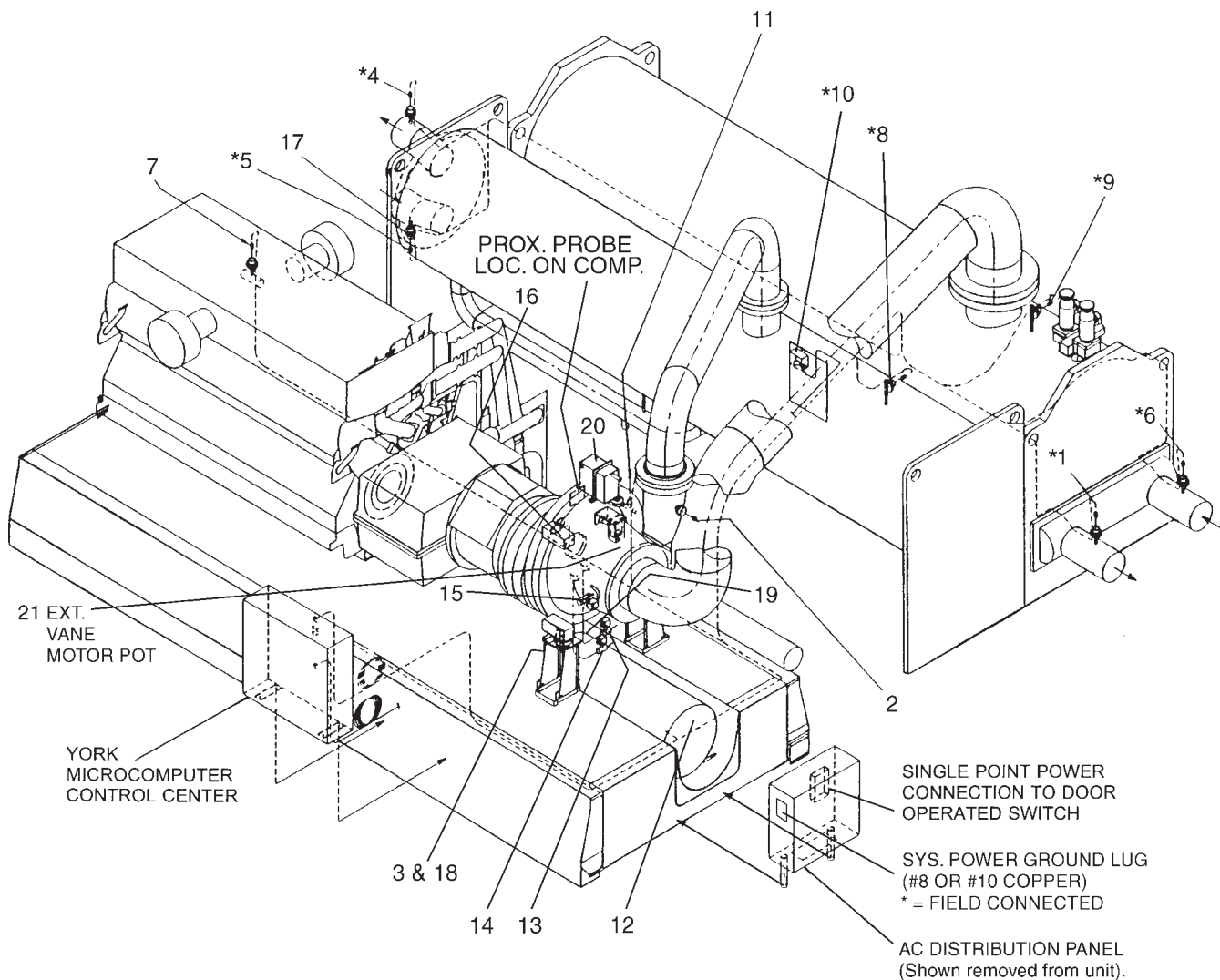


FIG. 4 – MICRO PANEL CONTROL BOARD (IN THE YORK MICRO PANEL CONTROL CENTER)



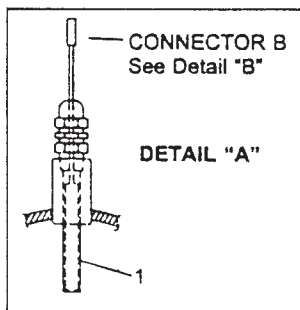
* FIELD CONNECTED

- # 1 - LEAVING CHILLED WATER SENSOR
- # 4 - LEAVING CONDENSER WATER SENSOR
- # 5 - ENTERING CONDENSER WATER SENSOR
- # 6 - ENTERING CHILLED WATER SENSOR
- # 8 - CONDENSER PRESSURE TRANSDUCER
- # 9 - EVAPORATOR PRESSURE TRANSDUCER
- #10- HIGH REFRIGERANT PRESSURE CUTOUT

FIELD CONNECTIONS

LEGEND

#1 -	RT1	LEAVING CHILLED WATER SENSOR
#2 -	RT2	DISCHARGE TEMP. SENSOR
#3 -	RT3	OIL TEMP. SENSOR
#4 -	RT4	LEAVING CONDENSER WATER SENSOR
#5 -	RT5	ENTERING CONDENSER WATER SENSOR
#6 -	RT9	ENTERING CHILLED WATER SENSOR
#7 -	RT10	AFTER COOLER WATER TEMPERATURE
#8 -	CP	CONDENSER PRESS. TRANSDUCER
#9 -	EP	EVAPORATOR PRESS. TRANSDUCER
#10 -	HP	HIGH REFRIGERANT PRESS. CUTOUT
#11 -	HOP	HIGH OIL PRESS. TRANSDUCER
#12 -	LOP	LOW OIL PRESS. TRANSDUCER
#13 -	1-SOL	OIL RETURN SOLENOID VALVE
#14 -	2-SOL	LIQUID LINE SOLENOID VALVE
#15 -	3-SOL	VENT LINE SOLENOID VALVE
#16 -	4-SOL	HIGH SPEED THRUST SOLENOID VALVE
#17 -	5-SOL	OIL COOLER WATER SOLENOID VALVE
#18 -	1 HTR	OIL RESERVOIR HEATER 115 VAC
#19 -	2 HTR	OIL RESERVOIR HEATER 460/480 VAC
#20 -	PRV	PRE-ROTATION VANE MOTOR
#21 -	POT	VANE MOTOR FEEDBACK POT
---		FACTORY SUPPLIED SHIELDED CABLE



LD00783(D)

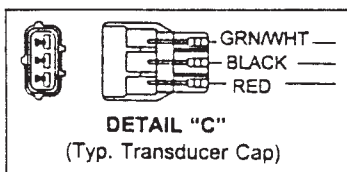
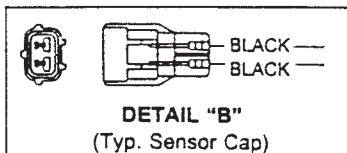
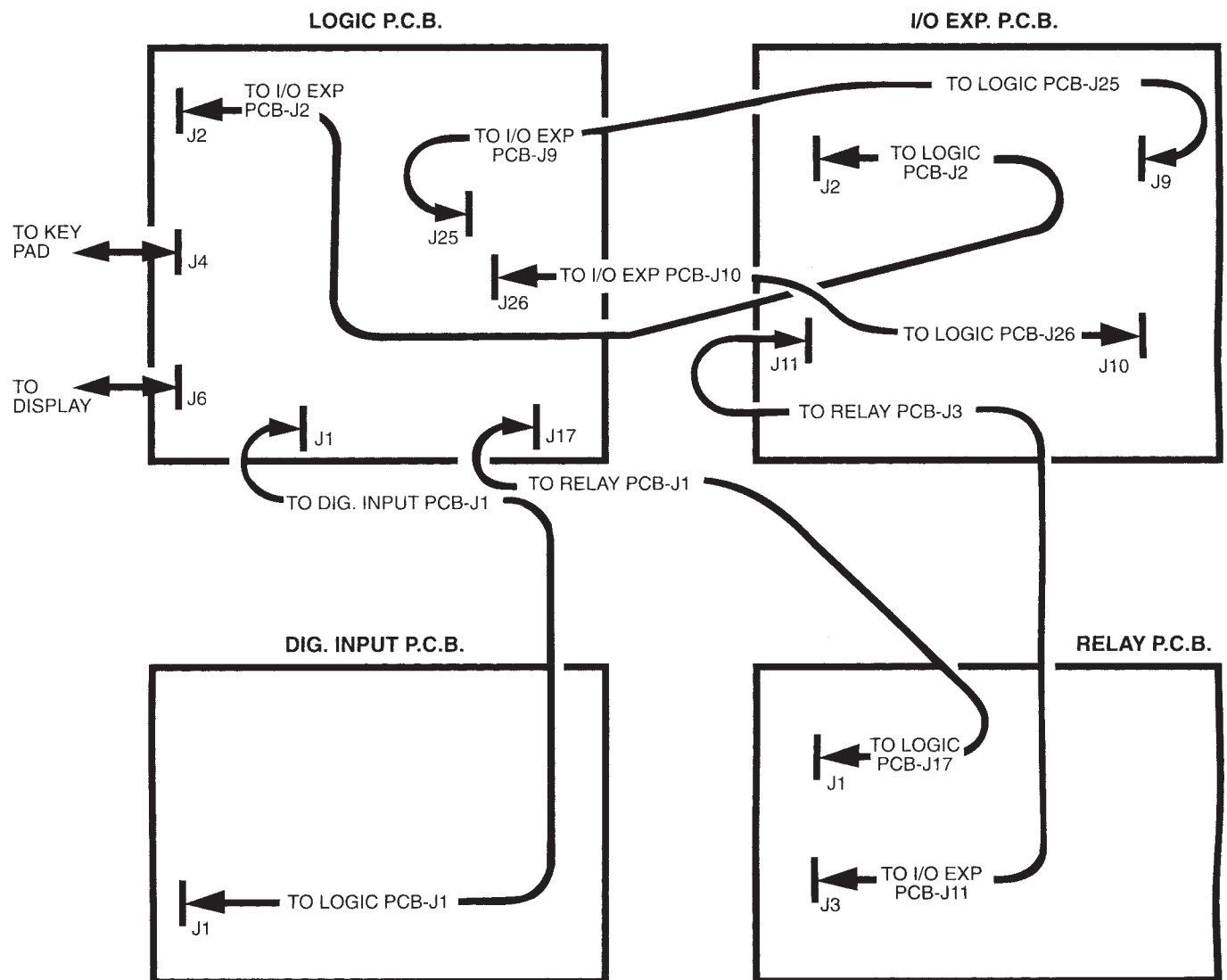


FIG. 5 – TRANSDUCER & SENSOR LOCATIONS (Model YG Chillers)

LD00783(R)



LD02454

FIG. 6 – RIBBON CABLE TERMINATIONS

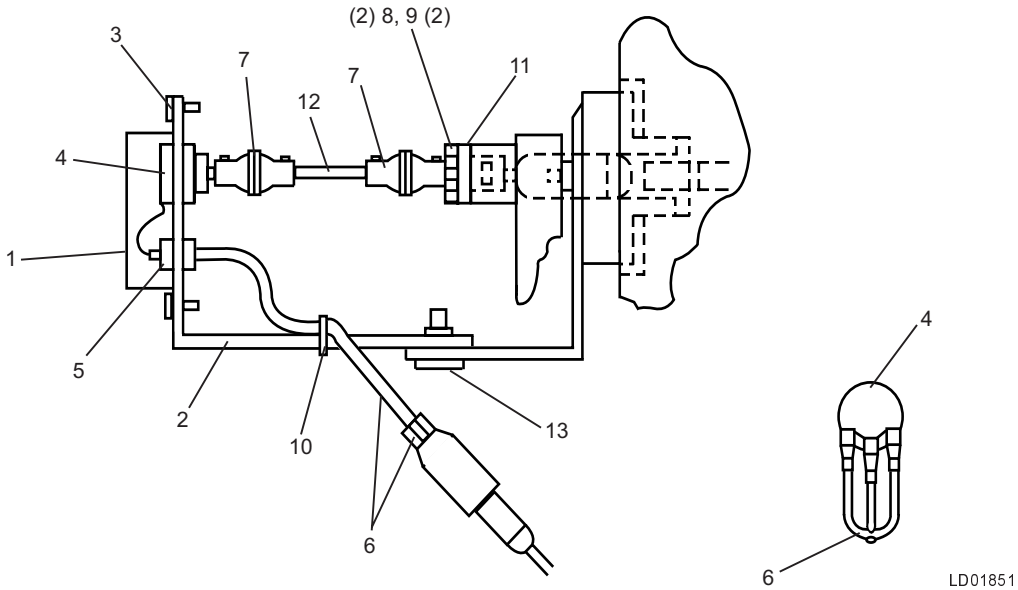
PLUG AND PIN PART NO'S FOR YG MICRO PANELS

MICRO P.C.B	PLUG NO.	PIN NO.
J3	025-19667-000	025-19674-000
J4	025-28382-000	025-28386-000
J8	025-21138-000	025-19674-000
J10	025-21137-000	025-19674-000
J17	025-28385-000	025-28386-000
J19	025-28384-000	025-28386-000
J21	025-28383-000	025-28386-000
J22	025-28382-000	025-28386-000
J23	025-28959-000	025-28386-000
LEVEL CONTROL P.C.B.		
J1	025-29130-000	025-28386-000
J2	025-29185-000	025-28386-000
J3	025-28959-000	025-28386-000
RELAY OUTPUT P.C.B.		
J2	025-19667-000	025-19674-000
DIGITAL INPUT P.C.B.		
J2	025-21137-000	025-19674-000
POWER SUPPLY P.C.B.		
J1	025-21137-000	025-32506-000
J2	025-21138-000	025-19674-000
J3	025-21136-000	025-32506-000
J4	025-21137-000	025-19674-000
J5	025-21136-000	025-19674-000
J6	025-19667-000	025-19674-000
START/STOP RESET		
J11	571-01199-201	571-01791-201
CM-2 (ON HINGED PANEL)		
J1	025-19667-000	025-22214-000
J2	025-21417-000	025-22214-000
J3	025-19667-000	025-22214-000
I/O EXP P.C.B.		
J3	025-29130-000	025-28386-000
J4	025-28382-000	025-28386-000
I/O EXP P.C.B.		
J5	025-28959-000	025-28386-000
J6	025-29185-000	025-28386-000
J7	025-29130-000	025-28386-000
J8	025-28383-000	025-28386-000

YORK PART NUMBERS FOR THE RT SENSORS ON YG MICROPANELS/CHILLERS

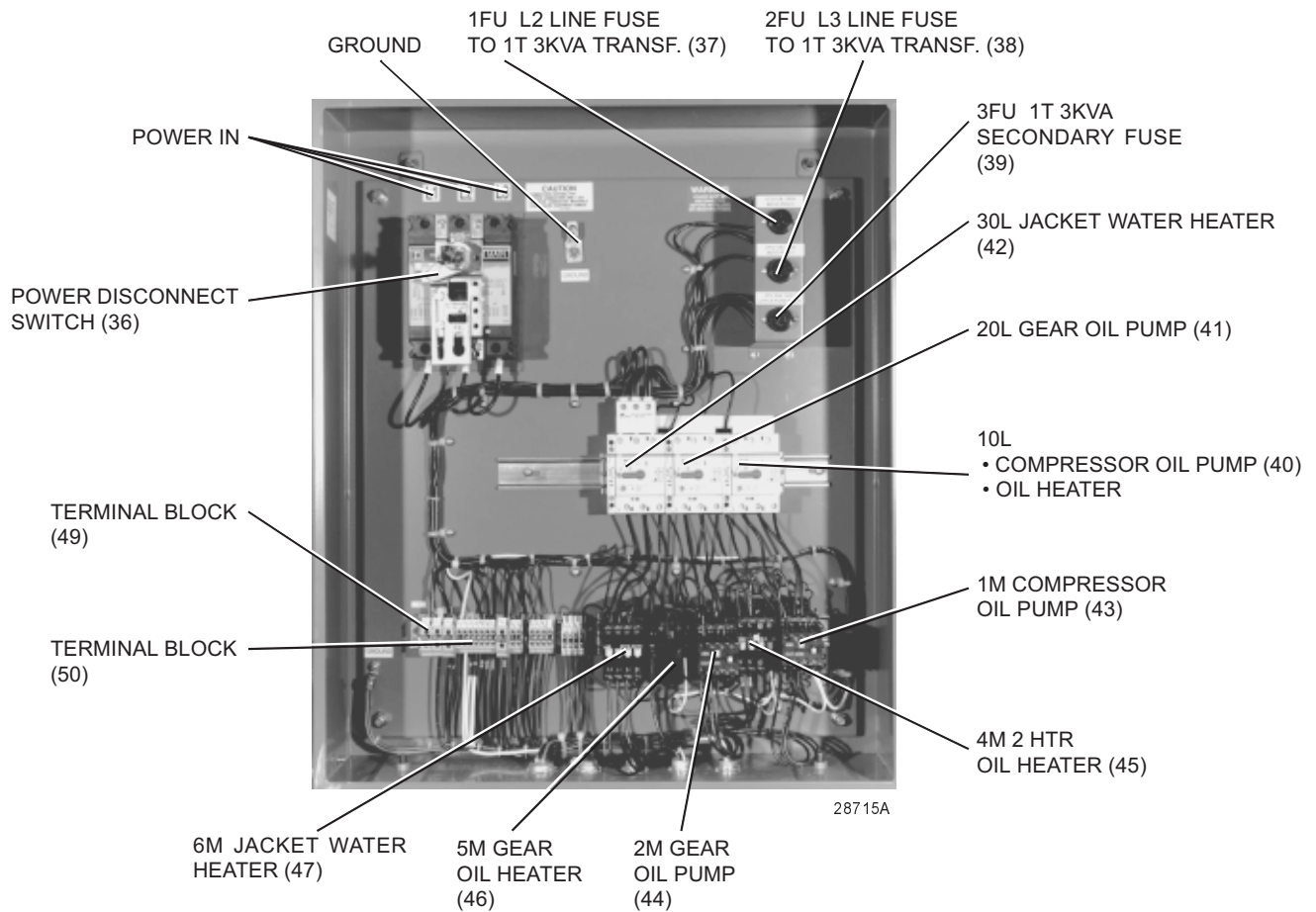
025-29964-000	RT-1 = LVG. CHILLED WATER SENSOR
	RT-4 = OIL TEMP. SENSOR
	RT-5 = ENTERING COND. WATER SENSOR
	RT-9 = ENTERING CHILLED WATER SENSOR
	RT-10 = AFTERCOOLER WATER SENSOR
025-28936-000	RT-2 = DISCHARGE TEMPERATURE SENSOR
025-28936-000	RT-3 = OIL TEMPERATURE SENSOR

ITEM	DESCRIPTION	QTY.	PART NO.
—	M.O.V. ASSY (FOR VANE MOTOR)	1 (ASSY)	366-87030-000
—	LEVEL CONTROL P.C.B.	1	031-01655-000
—	LAMINATED OVERALL DWG.	1	160.60-LS1
—	REFRIGERANT LEVEL CONTROL SENSOR	1	025-31712-000
—	GOVERNOR ADJUSTING TOOL	1	4C4029



371-02012-001	PART NO.	ITEM	QUANTITY PER UNIT	DESCRIPTION
	071-02012-002	1	1	COVER
	371-02012-009	2	1	BRACKET, SUPPORT
	021-13757-000	3	2	SCREW, TAP THD FORM #6 X 1/4 LG.
	025-32570-000	4	1	POT, 2500 OHMS, 2 WATT
	025-09080-000	5	1	STRAIN RELIEF
	571-02012-005	6	1	CABLE ASSEMBLY
	029-21795-000	7	2	COUPLING
	021-18674-000	8	2	SCREW, CAP HEX SOC. HD. 10-24 X 5/8
	021-08292-000	9	2	LOCKWASHER, HEL. SPR. #10
	025-18167-000	10	1	STRAP, CABLE
	071-02012-006	11	1	CAP
	071-02012-007	12	1	SHAFT, COUPLING
	021-18487-000	13	2	SCR./WASH. ASSEM. (SEMS) 1/4-20 X 1/2

DIRECT DRIVE VANE FEEDBACK POT (371-02012-001)



ITEM	DESCRIPTION	QTY.	PART NO.
36	Power Disconnect Switch	1	024-30460-000
37	1FU (L2 Line Fuse –15A)	1	025-25584-000
38	2FU (L3 Line Fuse – 15A)	1	025-25584-000
39	3FU (3KVA Fuse – 30A)	1	025-27699-000
40	10L Compr. Oil Pump / Oil Heater	1	024-27280-000
41	20L Gear Oil Pump	1	024-27280-000
42	30L Jacket Water Heater	1	024-27268-000
43	1M Compr. Oil Pump Contactor	1	024-25522-000
44	2M Gear Oil Pump Contactor	1	024-30462-000
45	4M Htr Oil Heater Contactor	1	024-25522-000
46	5M Relay	1	024-30461-000
47	6M Jacket Water Htr Contactor	1	024-30462-000
48	Kit-Door Mounting Assy. (For Item 35)	1	026-35000-000
49	Terminal Block (Large)	4	025-31476-000
50	Terminal Block (Small)	17	025-31442-000
—	Fuseholders for 1-2-3 FU	3	025-17407-000
—	Diode Assy. (Used at 2M & 6M)	2	371-02089-221
—	Jumper Term. Block (Lg) (Used in Item 48)	—	025-31475-000
—	Jumper Term. Block (Sm) (Used in Item 49)	—	025-31474-000

FIG. 7 – YORK POWER PANEL

The following photographs will help you locate some of the components on the “YB” chiller, both electrically and mechanically. The photographs consist of the following:

- Overall view of the chiller showing all electrical panels and their components (YORK Power Panel, YORK Micro Panel, Caterpillar Control Panel).
- Battery charger
- Sensors and transducers
- Vane motor and vane feedback pot
- Engine Panel Components
- Power Panel Components
- YORK Micro Panel Components

Also refer to Fig. 5 for the mechanical drawing of the unit.

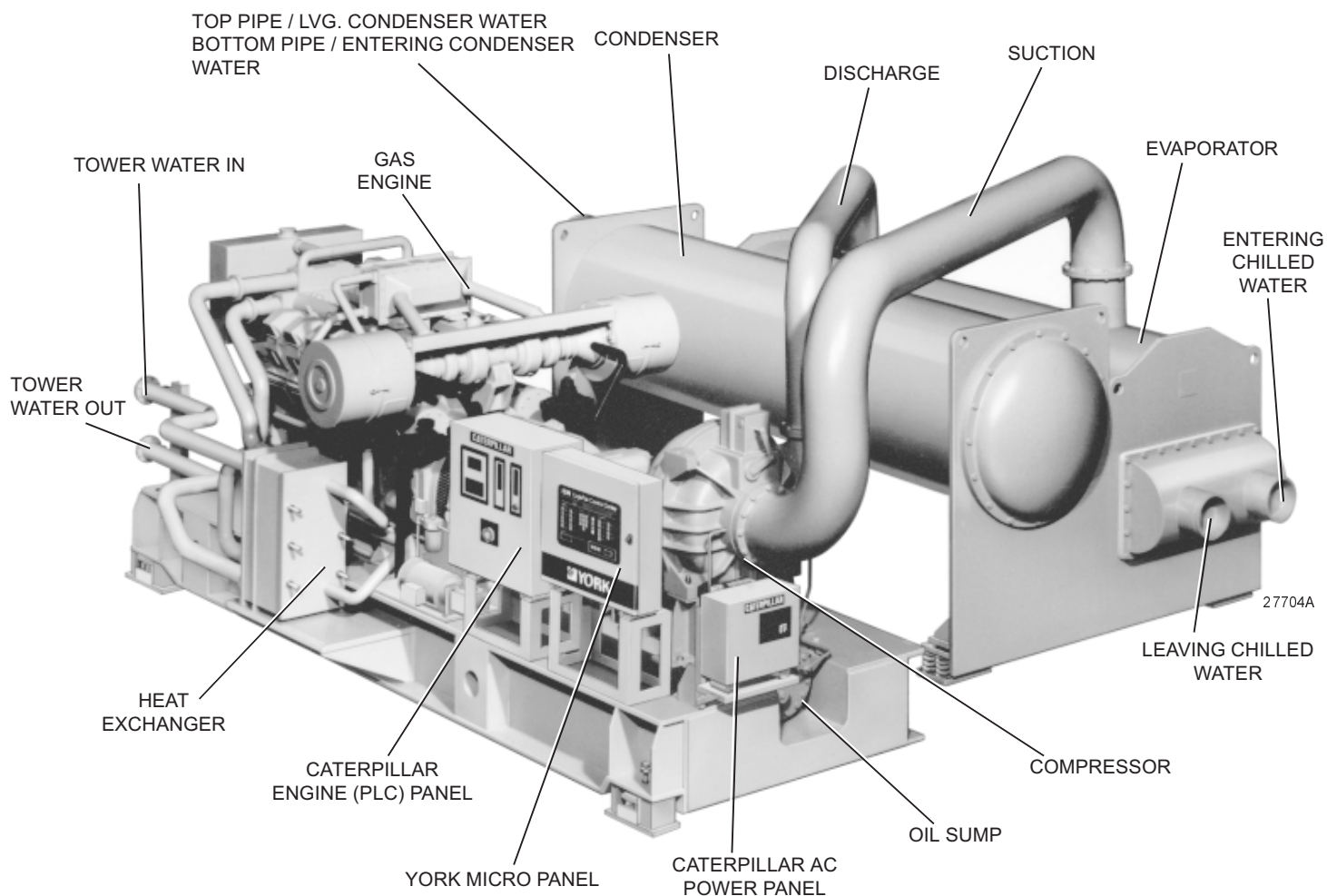
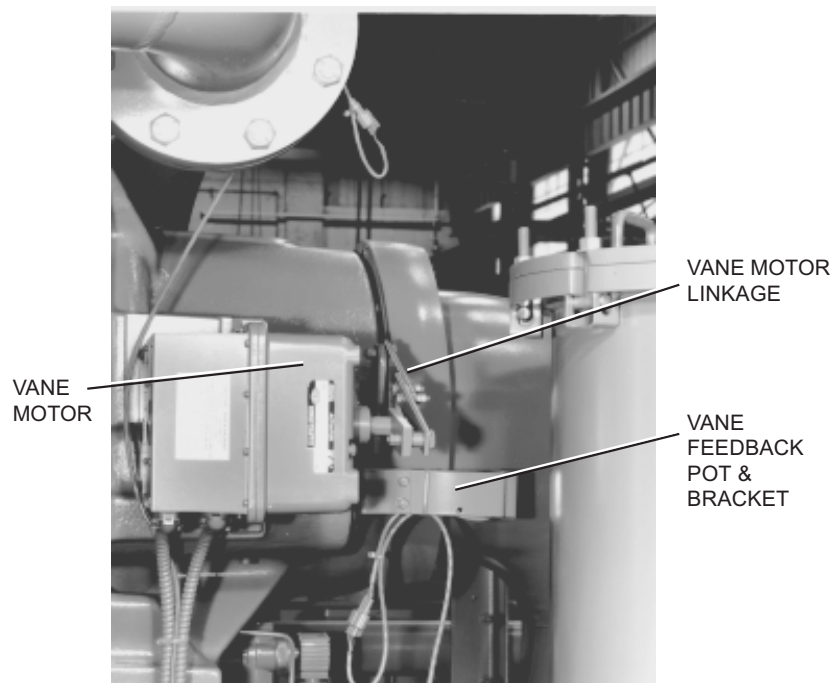


FIG. 8 – OVERVIEW OF UNIT AND PANELS



28712A

FIG. 9 – BATTERY CHARGER



28709A

FIG. 10 – VANE MOTOR AND FEEDBACK POT

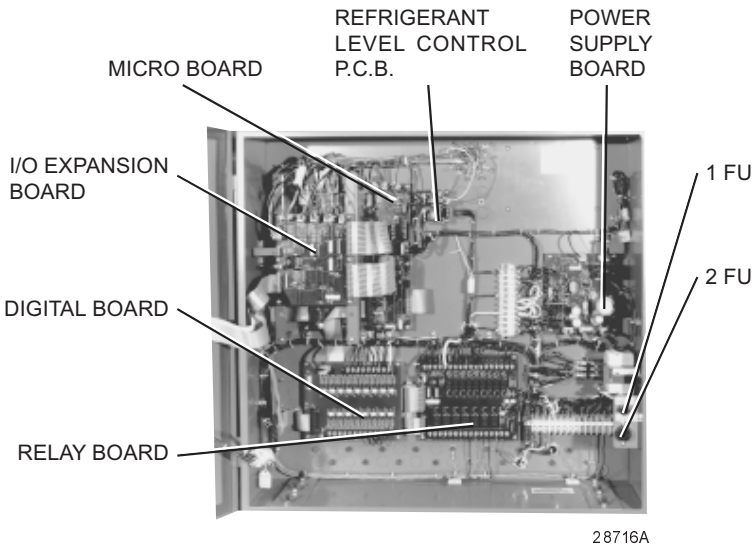


FIG. 11 – YORK MICRO PANEL

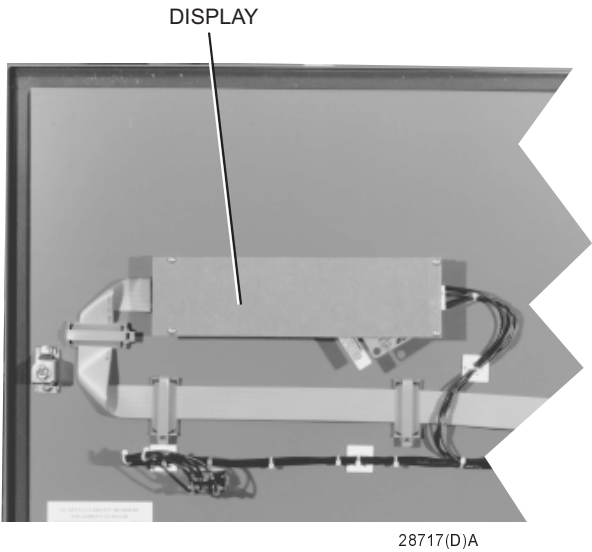


FIG. 12 – YORK MICRO PANEL (INSIDE OF DOOR)

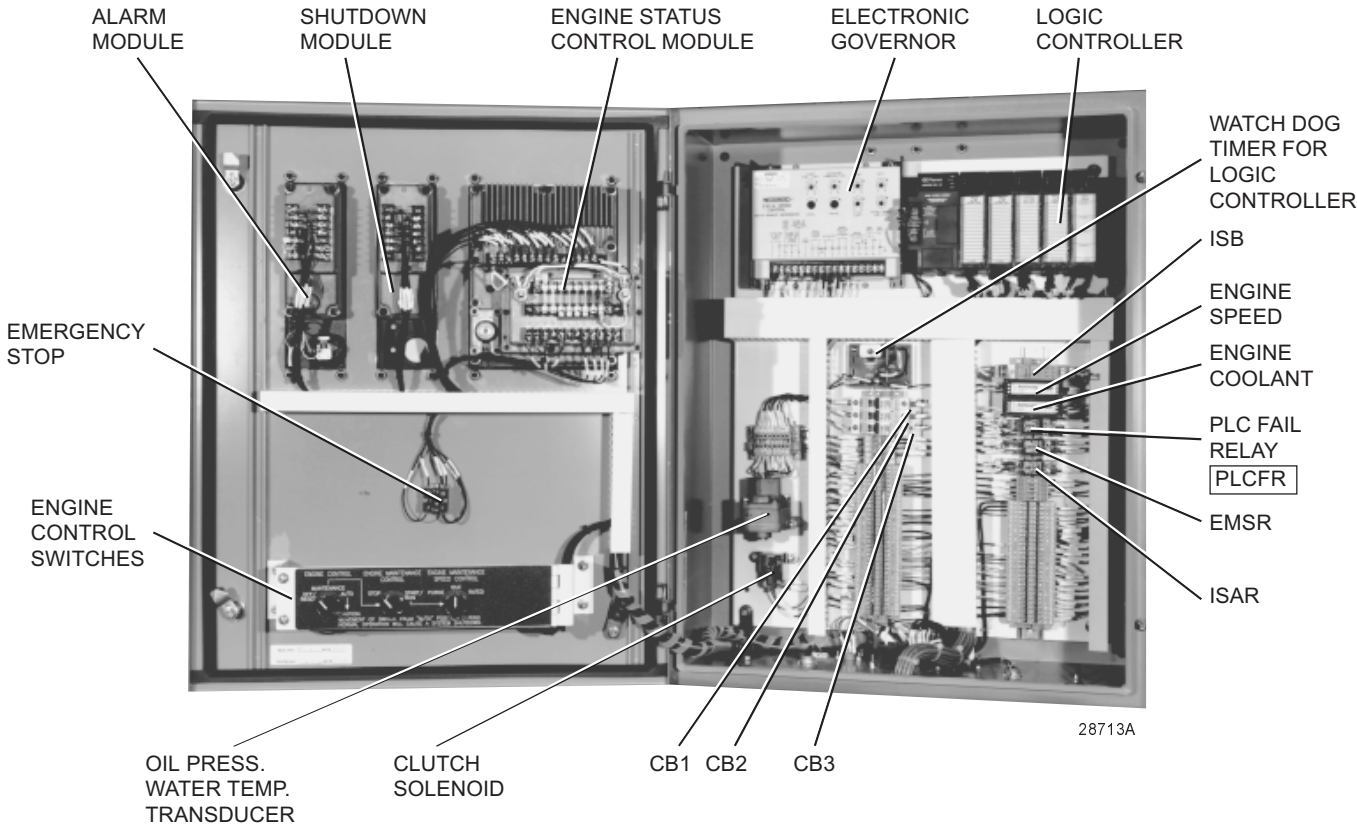
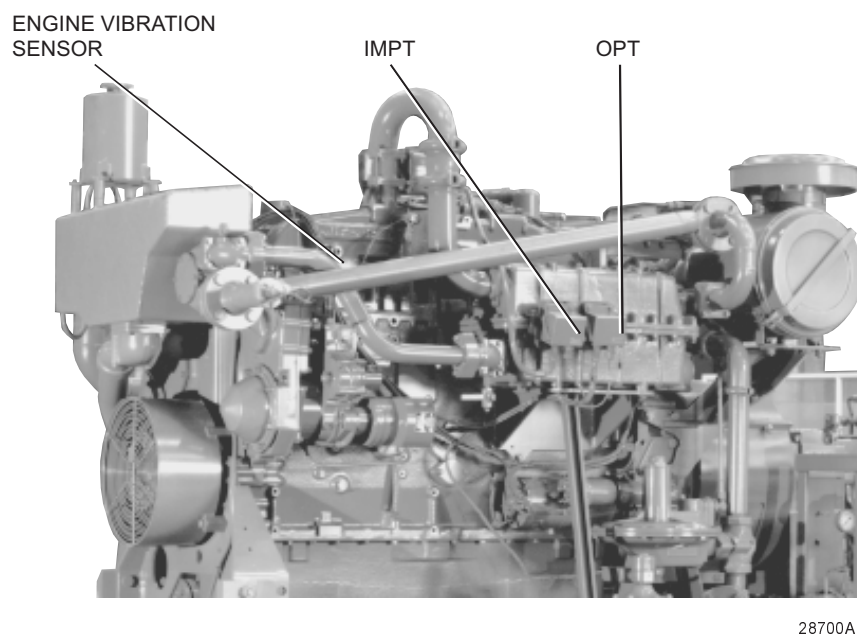
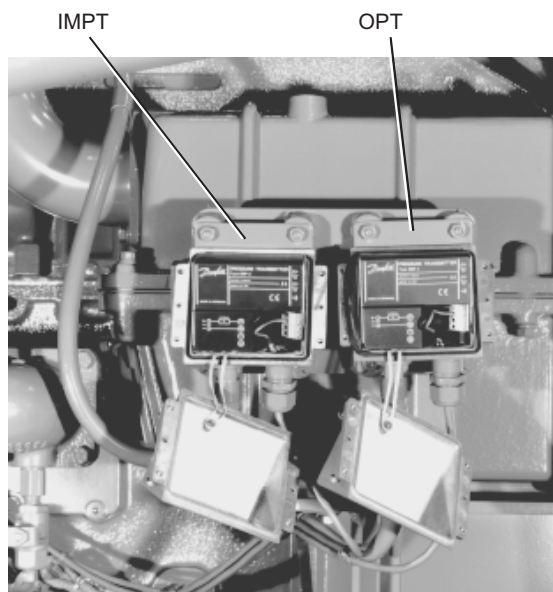


FIG. 13 – CATERPILLAR CONTROL PANEL



28700A

FIG. 14 – ENGINE SENSOR LOCATIONS



28710A

FIG. 15 – PRESSURE TRANSMITTERS LOCATION



Proud Sponsor
of the 1998
U.S. Olympic Team

36USC380

P.O. Box 1592, York, Pennsylvania USA 17405-1592
Copyright © by York International Corporation 1998

Form 160.60-RP2 (798)

Supersedes: 160.60-RP2 (496)

160.60-RP2 (SB1) (997)
160.60-RP2 (SB2) (1297)
160.60-RP2 (SB3) (498)

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