ELECTRIC, PNEUMATIC &

HYDRAULIC CIRCUIT

ARIES 222
ARIES 224
WET CLUTCH

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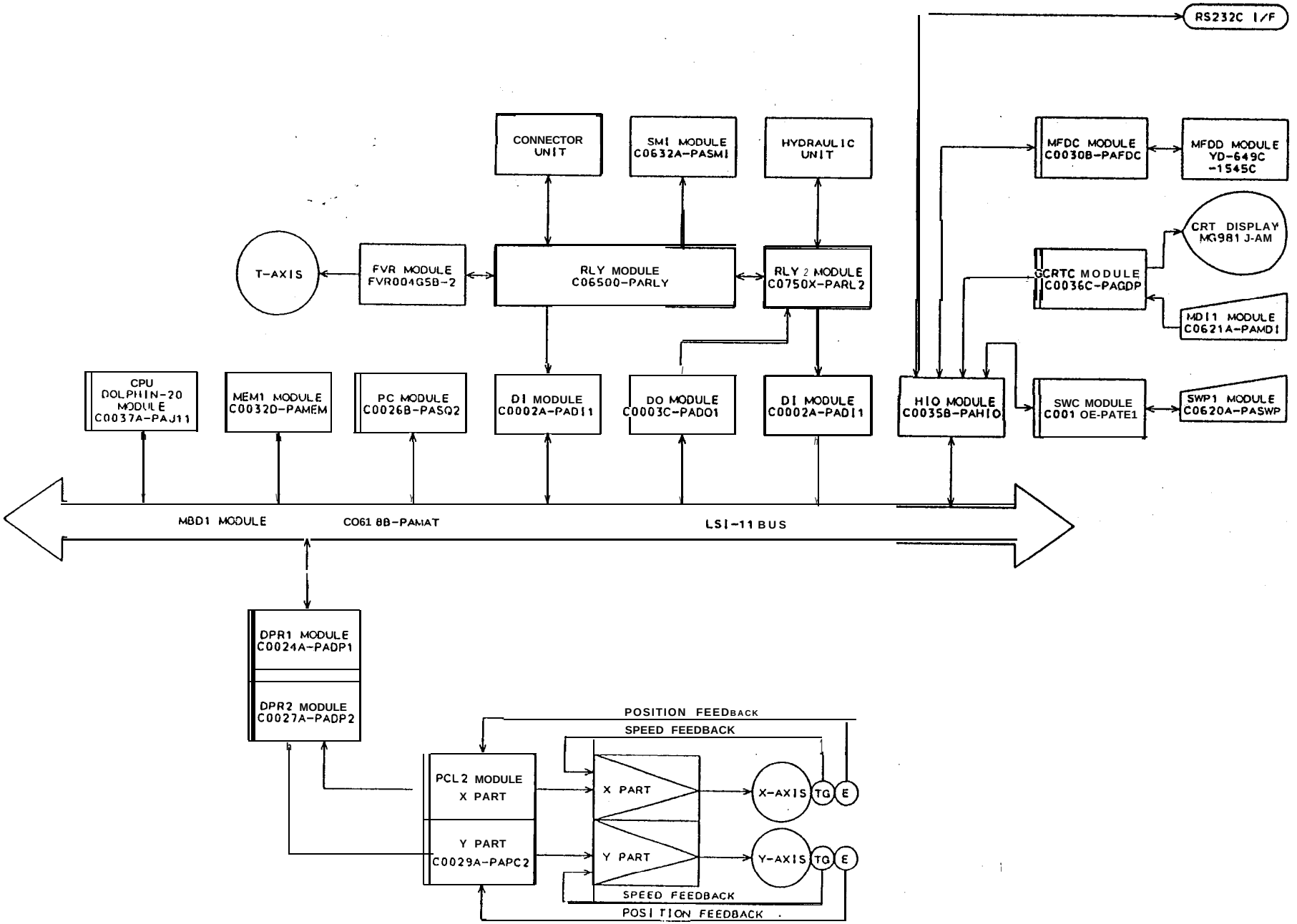
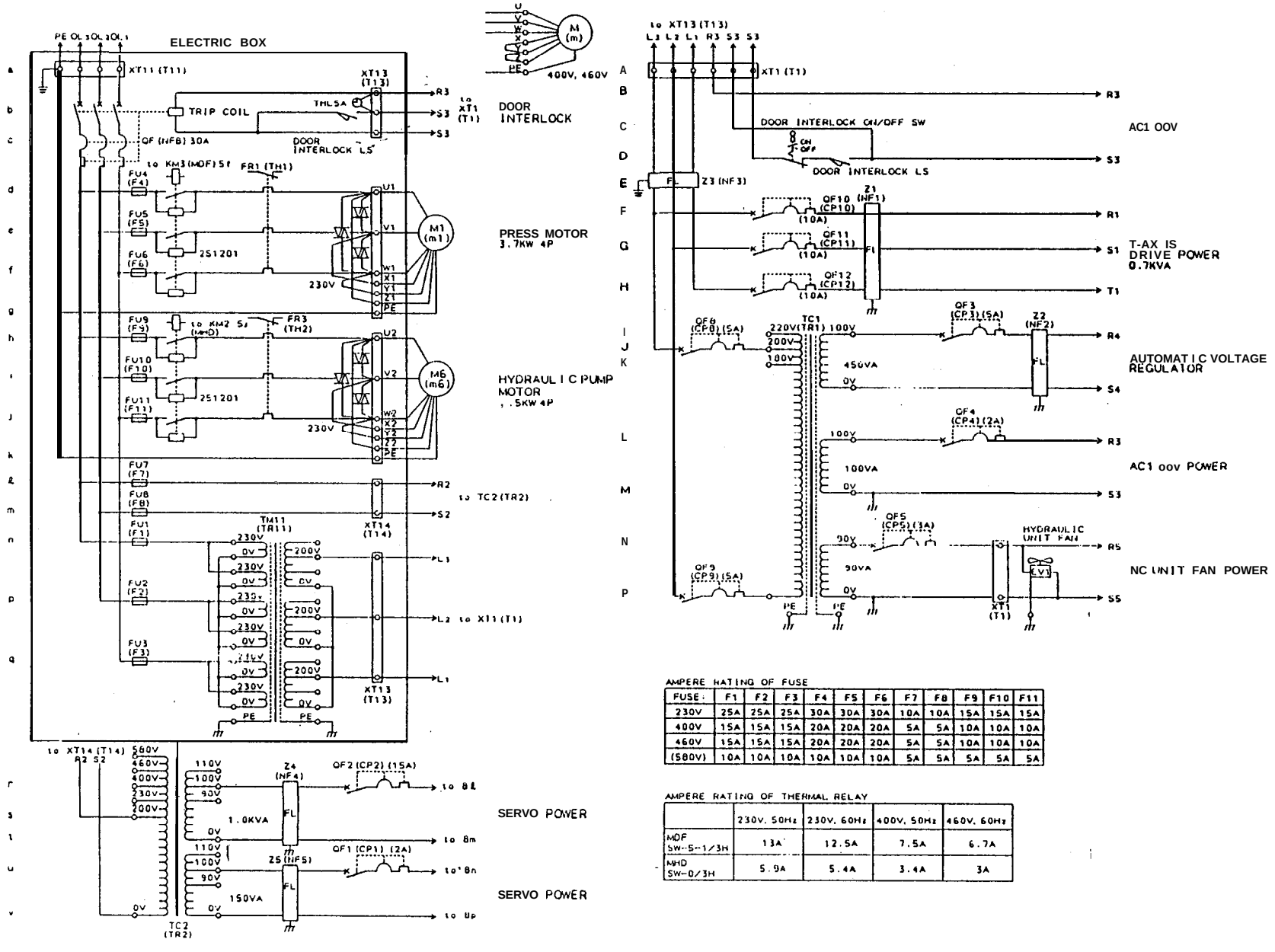
JWARE B L O C K DIAGRAM



ELECTRIC CIRCUIT



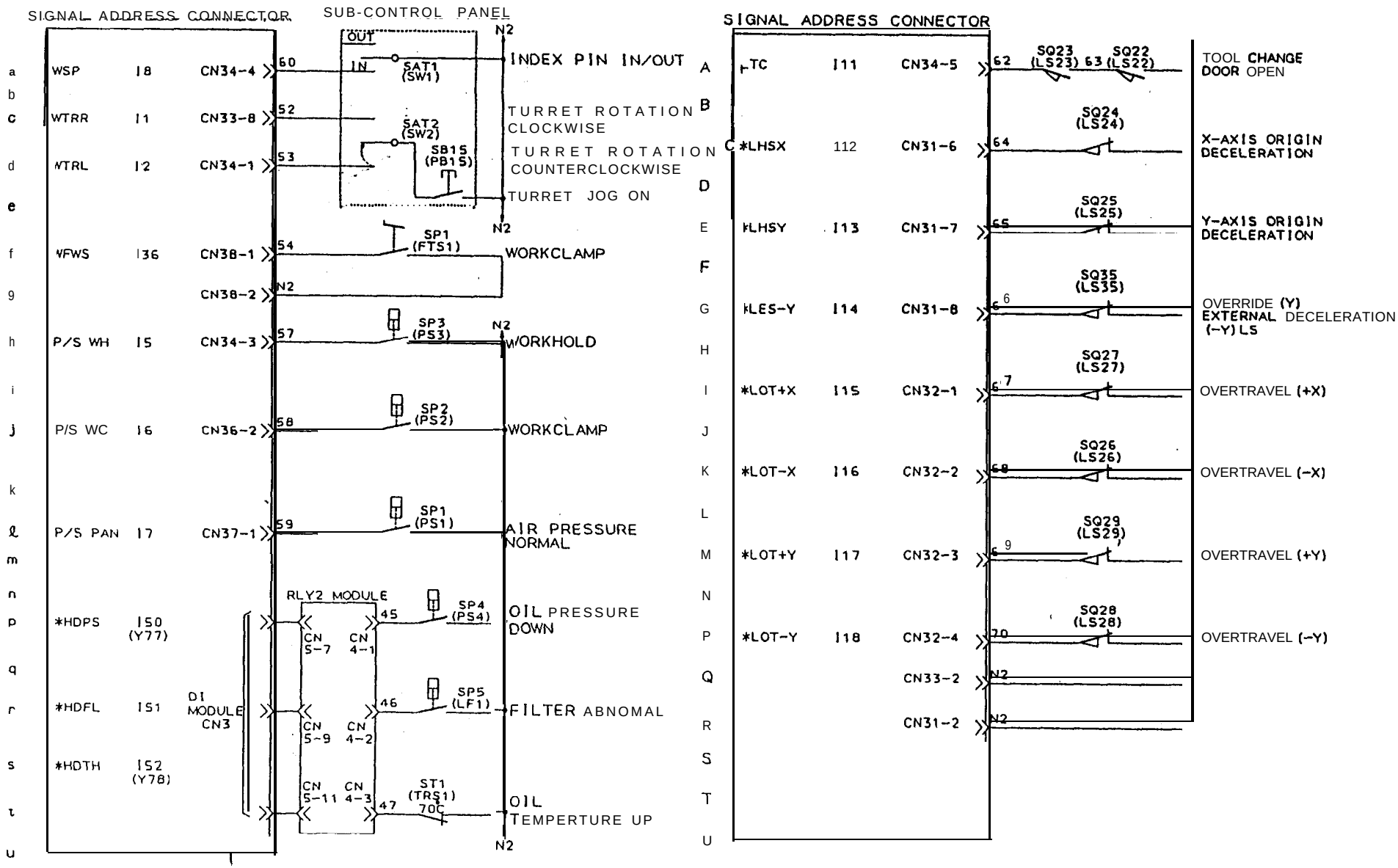
AMPERE RATING OF FUSE

FUSE	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
230V	25A	25A	25A	30A	30A	30A	10A	10A	15A	15A	15A
400V	15A	15A	15A	20A	20A	20A	5A	5A	10A	10A	10A
460V	15A	15A	15A	20A	20A	20A	5A	5A	10A	10A	10A
(580V)	10A	10A	10A	10A	10A	10A	5A	5A	5A	5A	5A

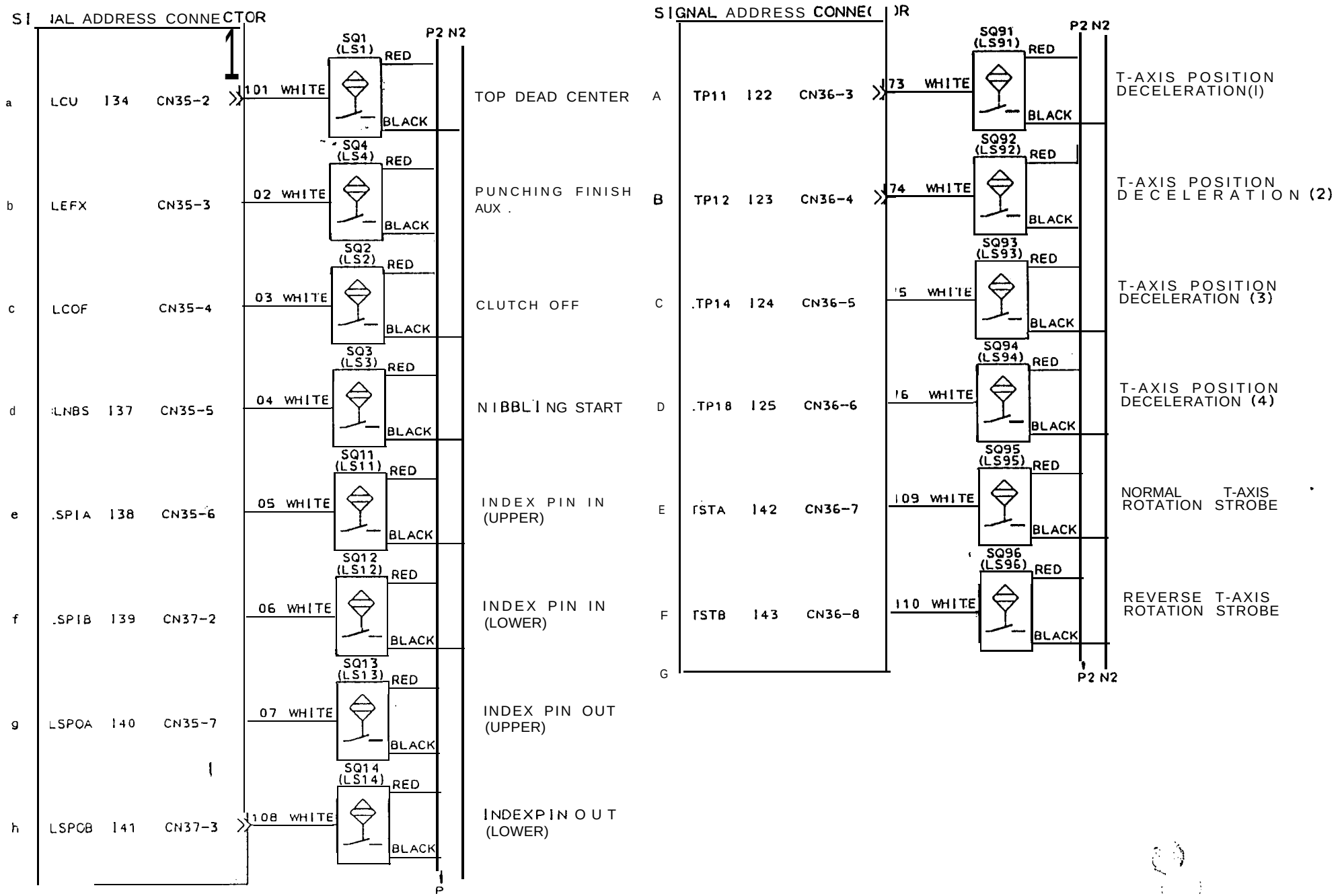
AMPERE RATING OF THERMAL RELAY

	230V, 50Hz	230V, 60Hz	400V, 50Hz	460V, 60Hz
MOF SW-5-1/3H	13A	12.5A	7.5A	6.7A
MHD SW-0/3H	5.9A	5.4A	3.4A	3A

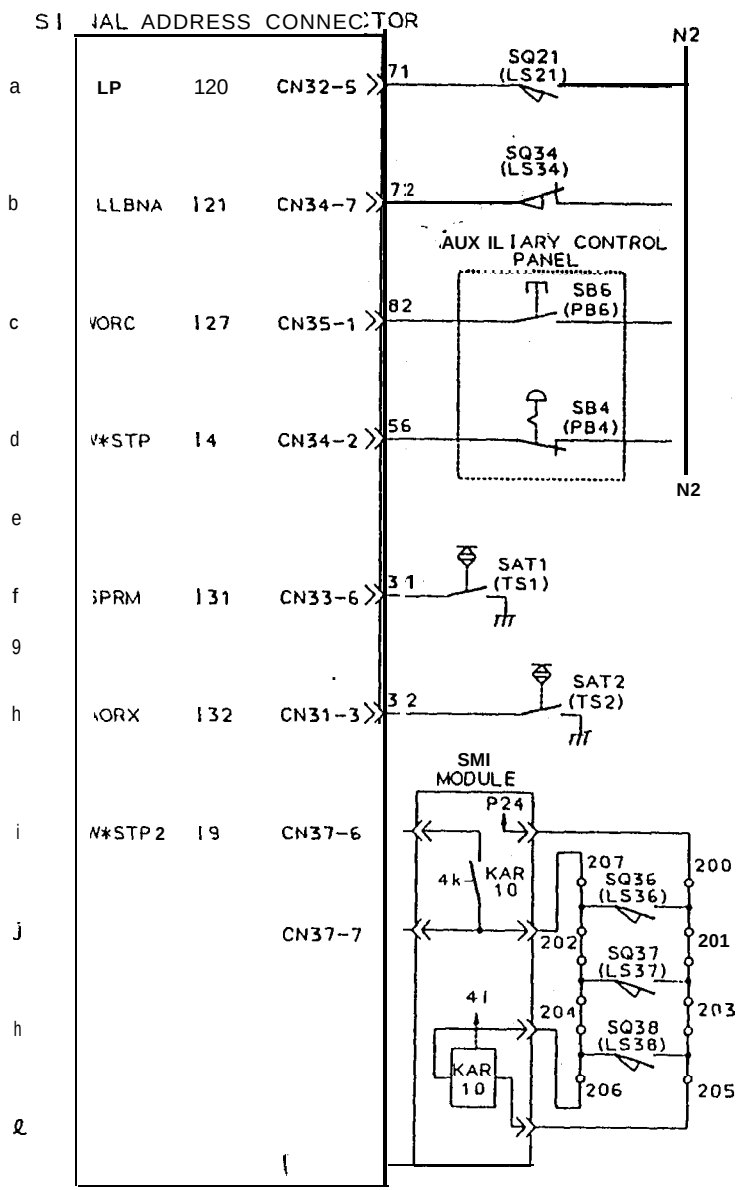
INPUT SIGNALS (1)

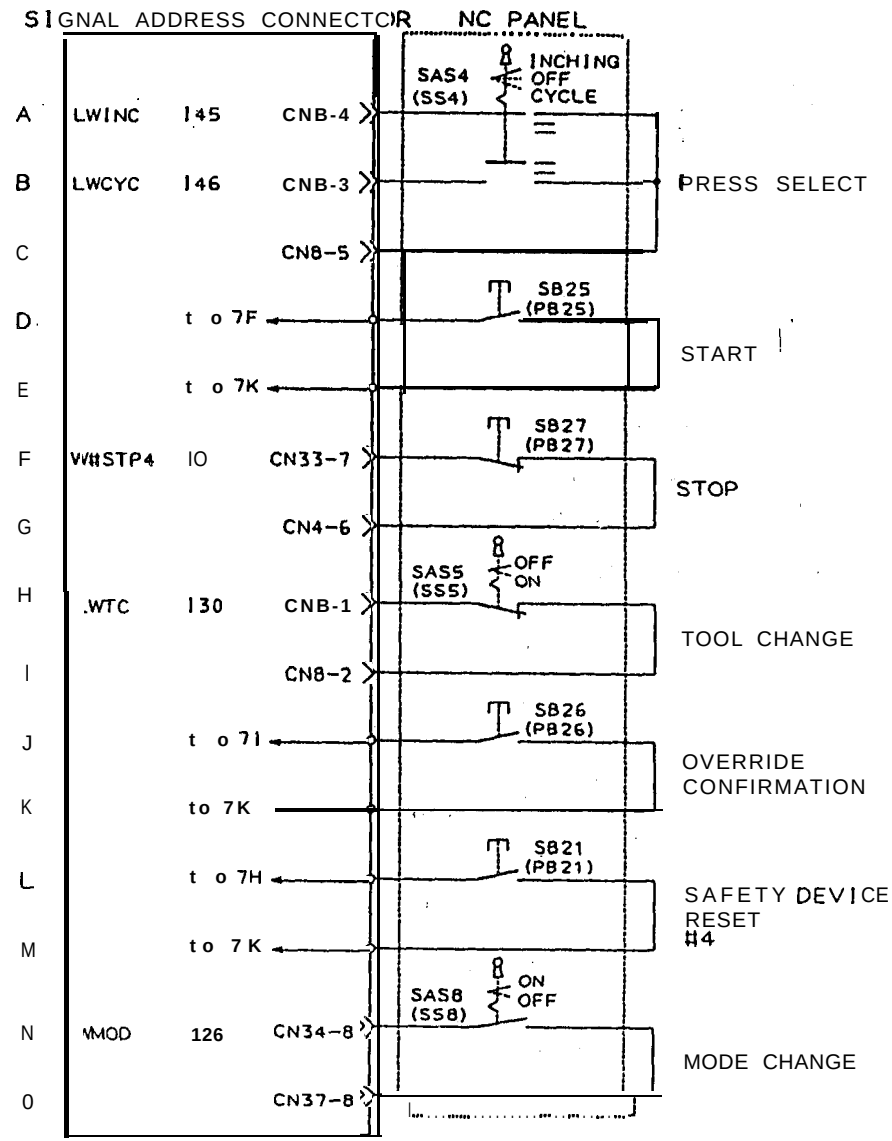


INPUT SIGNALS (2)



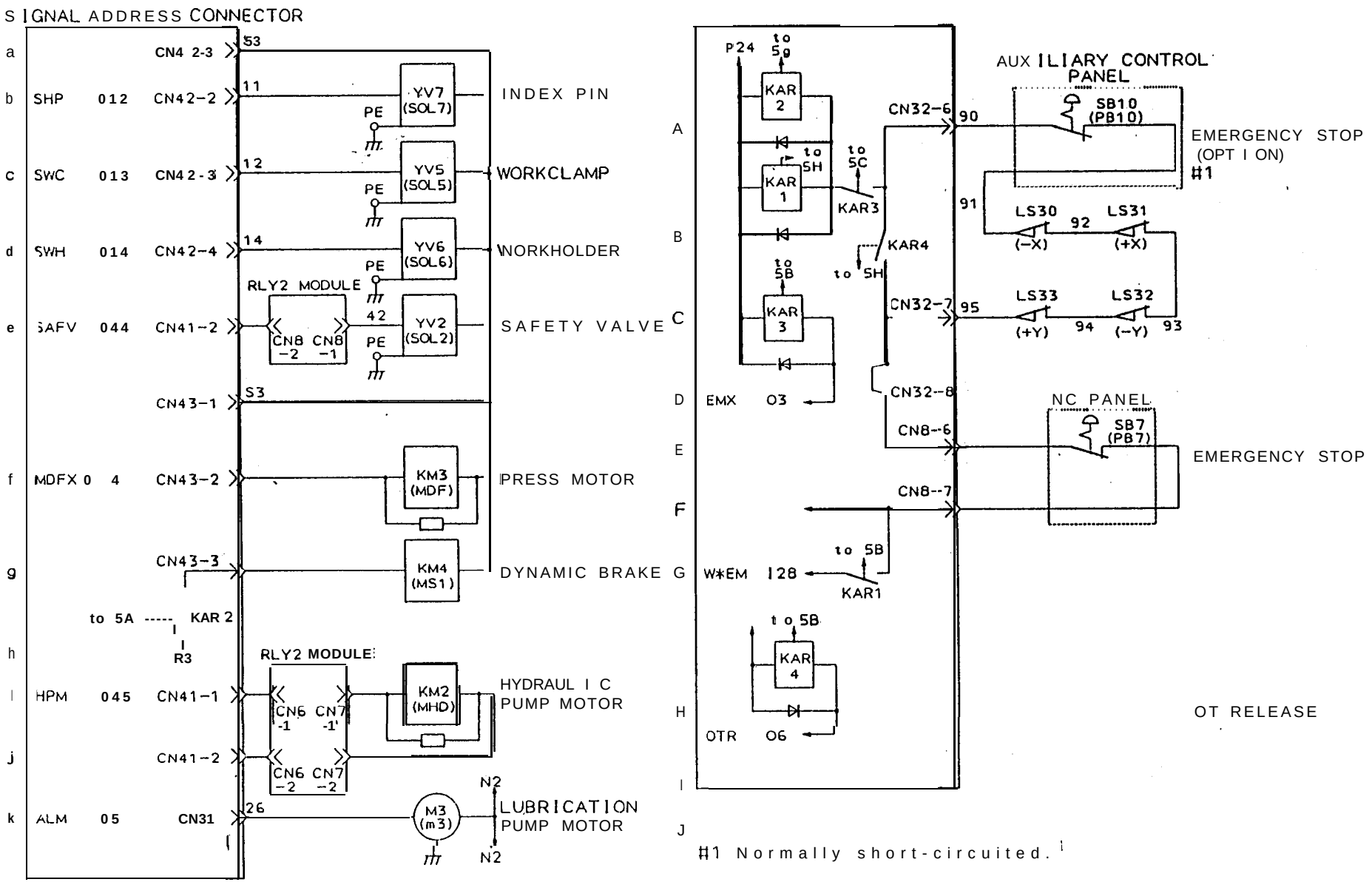
INPUT SIGNALS (3)





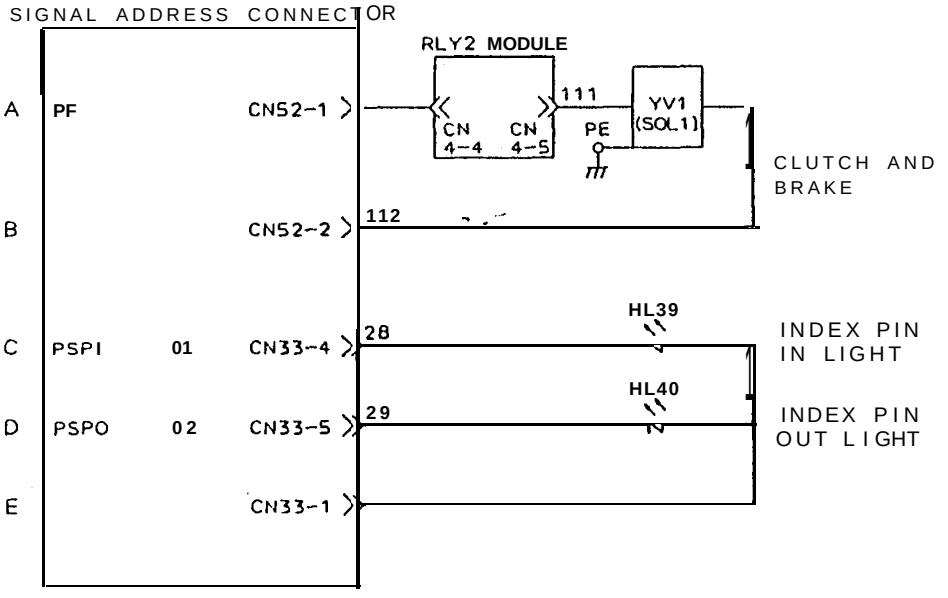
#1 short-circuited when optional control stand is added.
#2 Not used when optional control stand is added.
#3 Normally short circuited.
#4 Not connected when optional control stand is added.

OUTPUT SIGNALS (1)

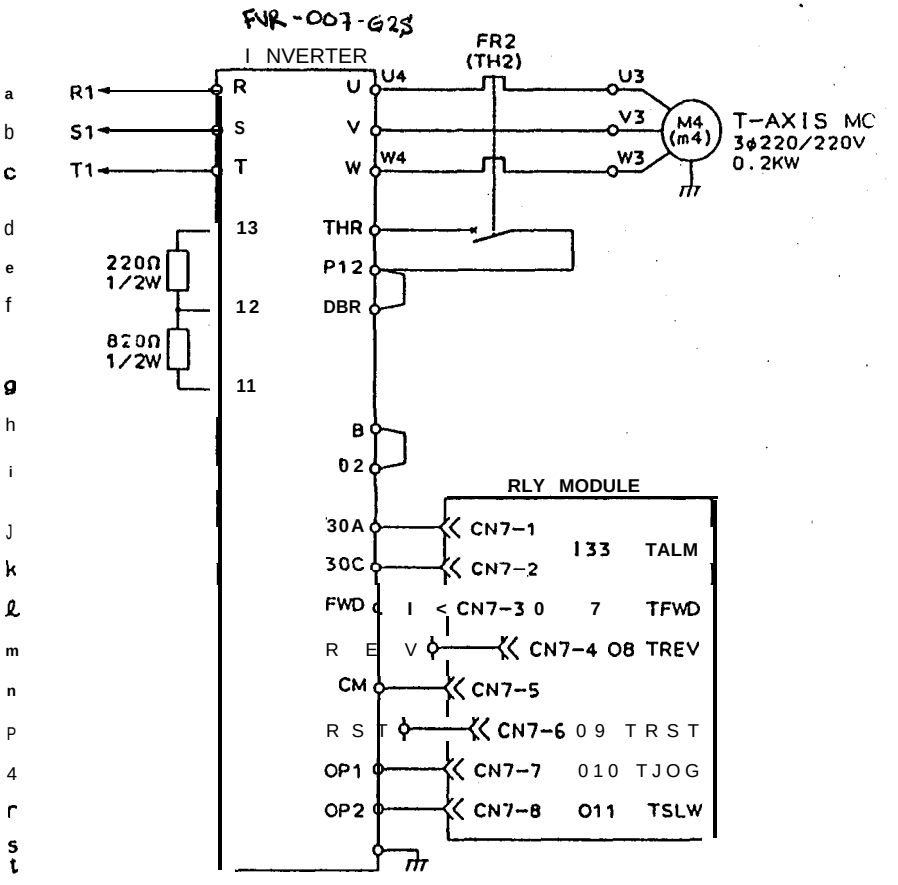


#1 Normally short-circuited.

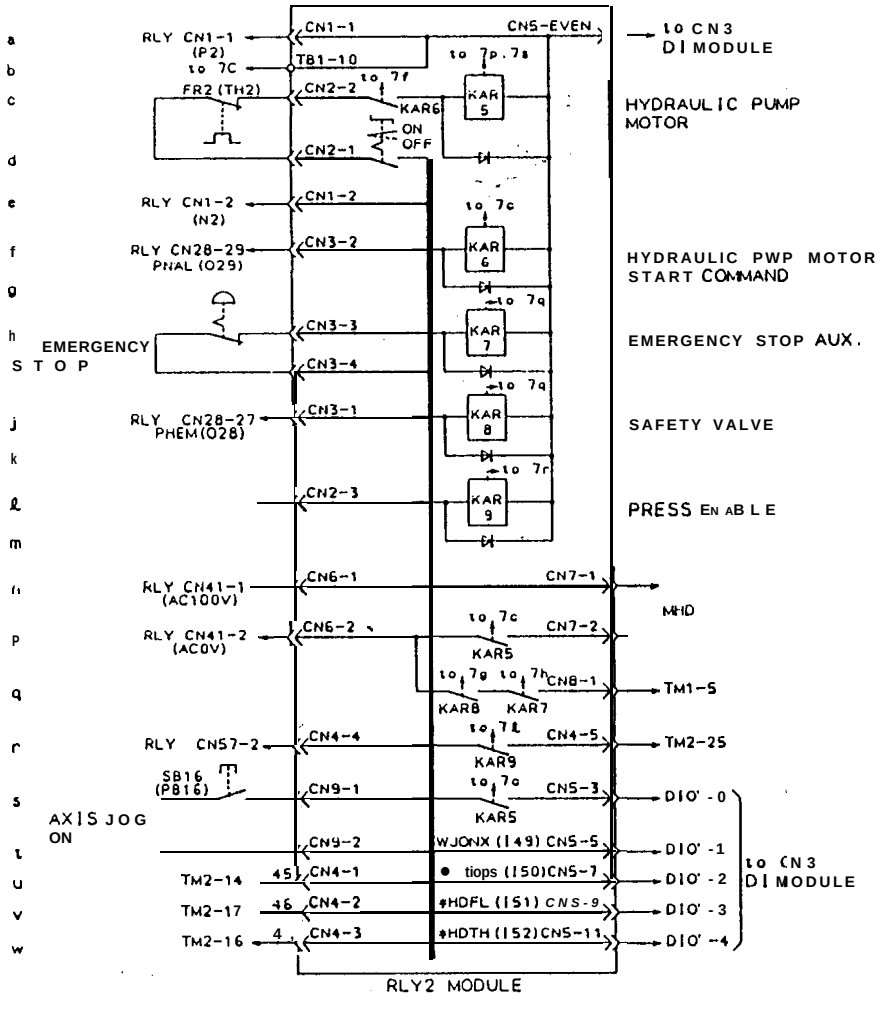
OUTPUT SIGNALS (2)

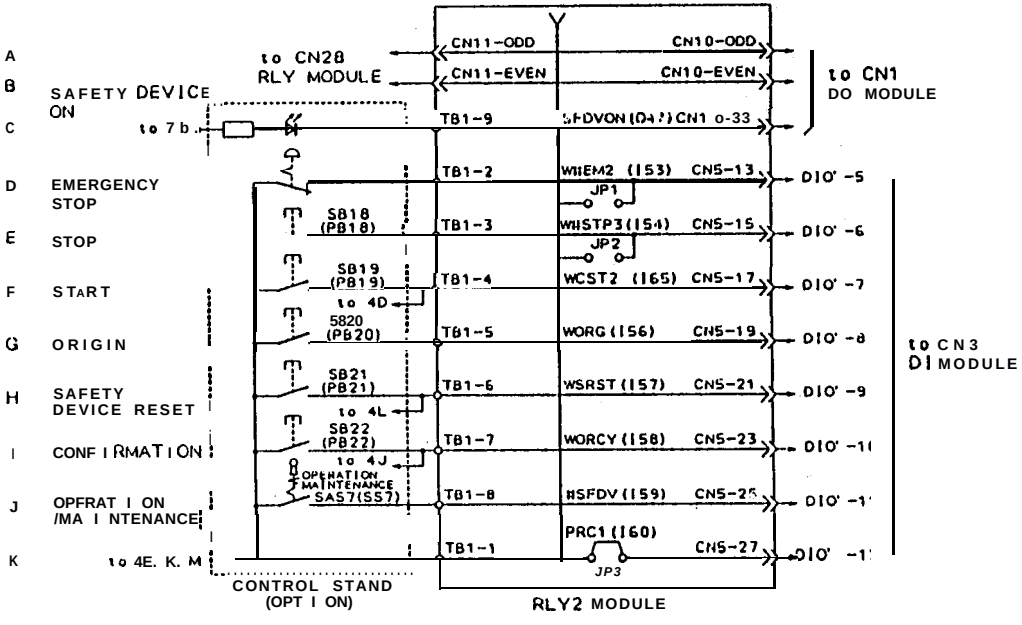


T-AXIS INVERTER



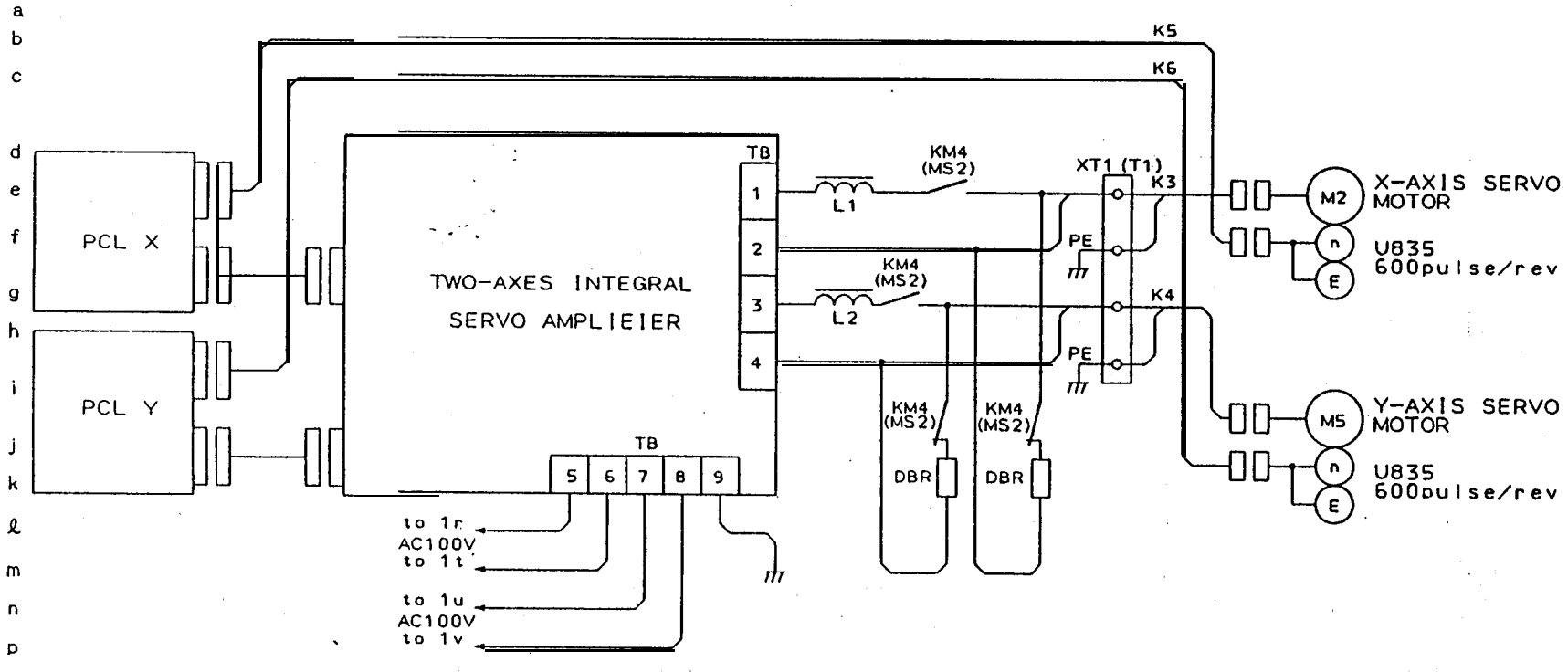
RLY2 MODULE C0750X-PARL2



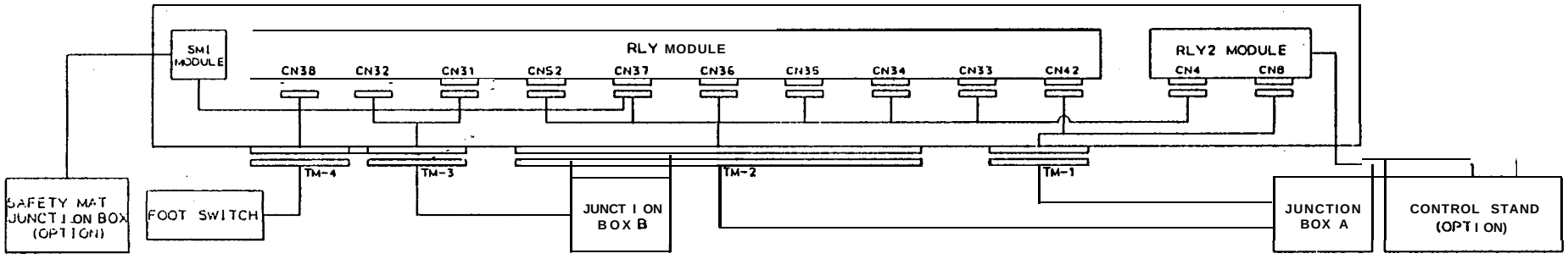


$1 JP1 and JP2 are removed when optional control 'stand is added (normally short circulted).

SERVO SYSTEM CONNECTION DIAGRAM



CONNECTOR CONNECTION DIAGRAM



[CN31]

PIN NO	1	2	3	4	5	6	7	8
SIGNAL		0V	AORX		ALM	• LHSX	♦LHSY	♦LES-Y
LINE NO.	0	N2	32	O	26	64	65	66

[CN32]

PIN No.	1	2	3	4	5	6	7	8
SIGNAL	♦LOT+X	♦LOT-X	♦LOT+Y	♦LOT-Y	LLP	EM	EM	
LINE NO.	67	68	69	70	71	91	95	O

[CN33]

PIN NO.	1	2	3	4	5	6	7	8
SIGNAL	+24V	0V		PSP♦	PSPO	ST	WHSTP4	WTRR
LINE NO.	P2	N2	O	28	29	31	122	52

[CN34]

PIN NO.	1	2	3	4	5	6	7	8
SIGNAL	WTRL	W♦STP	P / S WH	WSP	LTC		♦LLBNA	WMOD
LINE NO.	53	56	57	60	62	O	72	

[CN35]

PIN NO.	1	2	3	4	5	6	7	8
SIGNAL	WORC	♦LCU	♦LEFX	♦LCOF	♦LNBS	LSP♦A	LSPOA	
LINE NO.	82	101	102	103	104	105	107	O

[CN36]

PIN NO.	1	2	3	4	5	6	7	8
SIGNAL		P/S WC	LTP11	LTP12	LTP14	LTP18	TSTA	TSTB
LINE NO.	O	58	73	74	75	76	109	110

[CN37]

PIN NO	1	2	3	4	5	6	7	8
SIGNAL	P/SPAN	LSP♦B	LSPOB	EM	EM	W♦STP2	0V	WMOD
LINE NO.	59	106	108	90	91			

[CN38]

PIN NO.	1	2
SIGNAL	WFWS	0V
LINE NO.	54	N2

[CN42]

PIN NO.	1	2	3	4
SIGNAL		SHP	SWC	SWH
LINE NO.	S3	11	12	14

[CN52]

PIN NO.	1	2
SIGNAL	PF	PF
LINE NO.	111	112

[TM1]

PIN NO	1	2	3	4	5	6	7	8	9
SIGNAL		SHP	SWC	SWH	SAFV				
LINE NO.	S3	11	12	14	42	O	O	O	E

[TM2]

PIN NO.	1	2	3	4	5	6	7	8		
SIGNAL	+24	0V		PSP♦	PSPO	SPRM		WTRR	WTRL	
LINE NO	P2	N2	O	28	29	31	O	52	53	O
PIN NO.	11	12	13	14	15	16	17	18	19	20
SIGNAL	P/S WH	WSP	LTC	♦HDPS	♦LLBNA	♦HDTH	♦HDFL	♦LCU	♦LEFX	♦LCOF
LINE NO	57	60	62 45	72	47	72 46	101	101	102	103
PIN NO.	21	22	23	24	25	26	27	28	29	30
SIGNAL	♦LNBS	LSP♦A	LSPOA	CBS1	CBS2	P/S WC	LTP11	LTP12	LTP14	LTP18
LINE NO.	104	105	107	111	112	58	73	74	75	76
PIN NO.	31	32	33	34	35	36	37			
SIGNAL	TSTA	TSTB	P/SPAN	LSP♦B	LSPOB					
LINE NO	109	110	59	106	108	O	O			

[TM3]

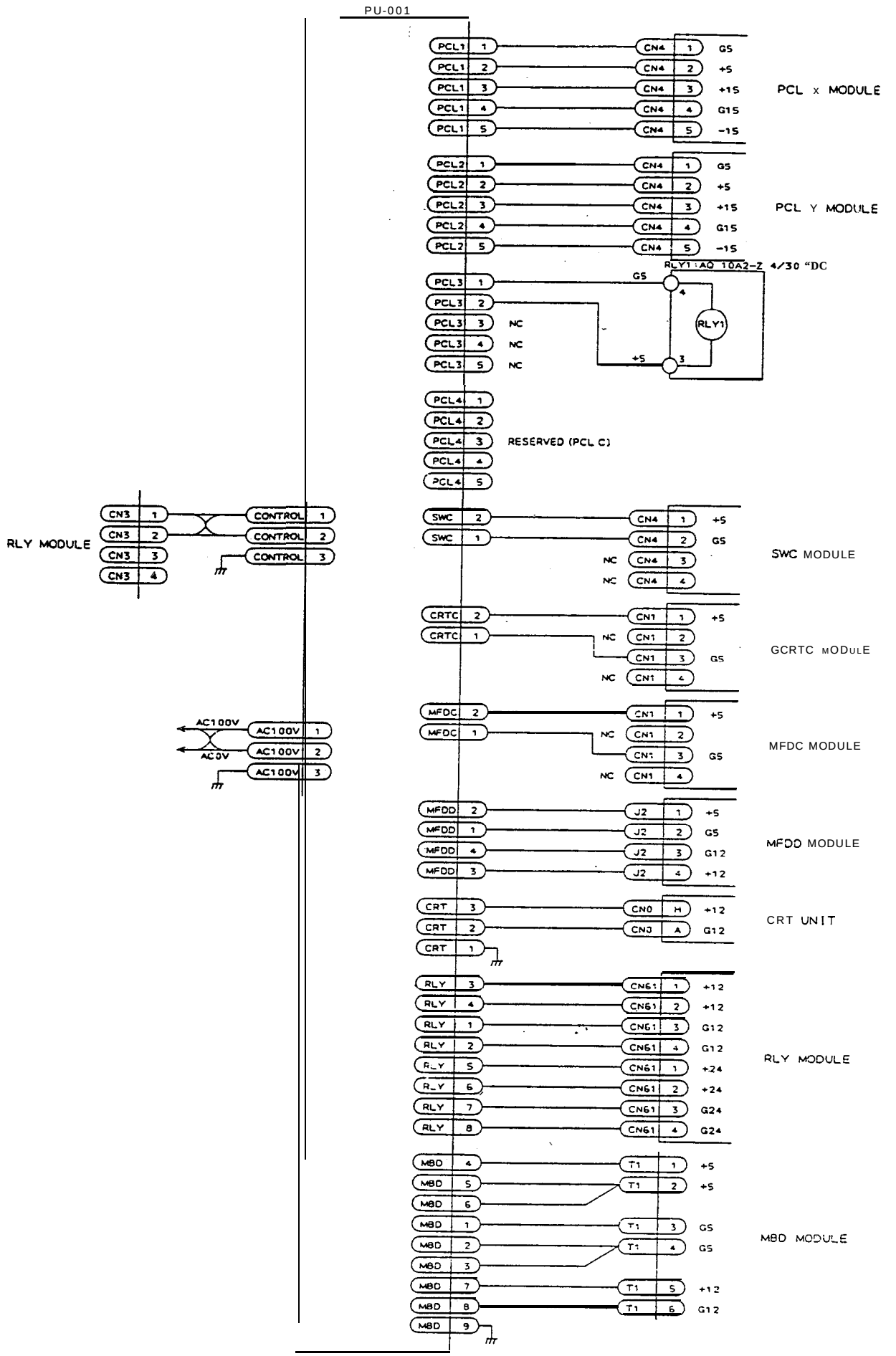
PIN NO.	1	2	3	4	5	6	7	8	9	10
SIGNAL		0V	AORX		ALM	♦LHSX	♦LHSY	♦LES-Y	♦LOT-X	♦LOT-X
LINE NO.	O	N2	32	O	26	64	65	66	67	68
PIN NO.	11	12	13	14	15	16	17	18	19	20
SIGNAL	♦LOT+Y	♦LOT-Y	LLP							
LINE NO.	69	70	71	91	95	O	O	O	O	O
PIN NO.	21	22	23	24						
SIGNAL										
LINE NO.	O	O	O	E						

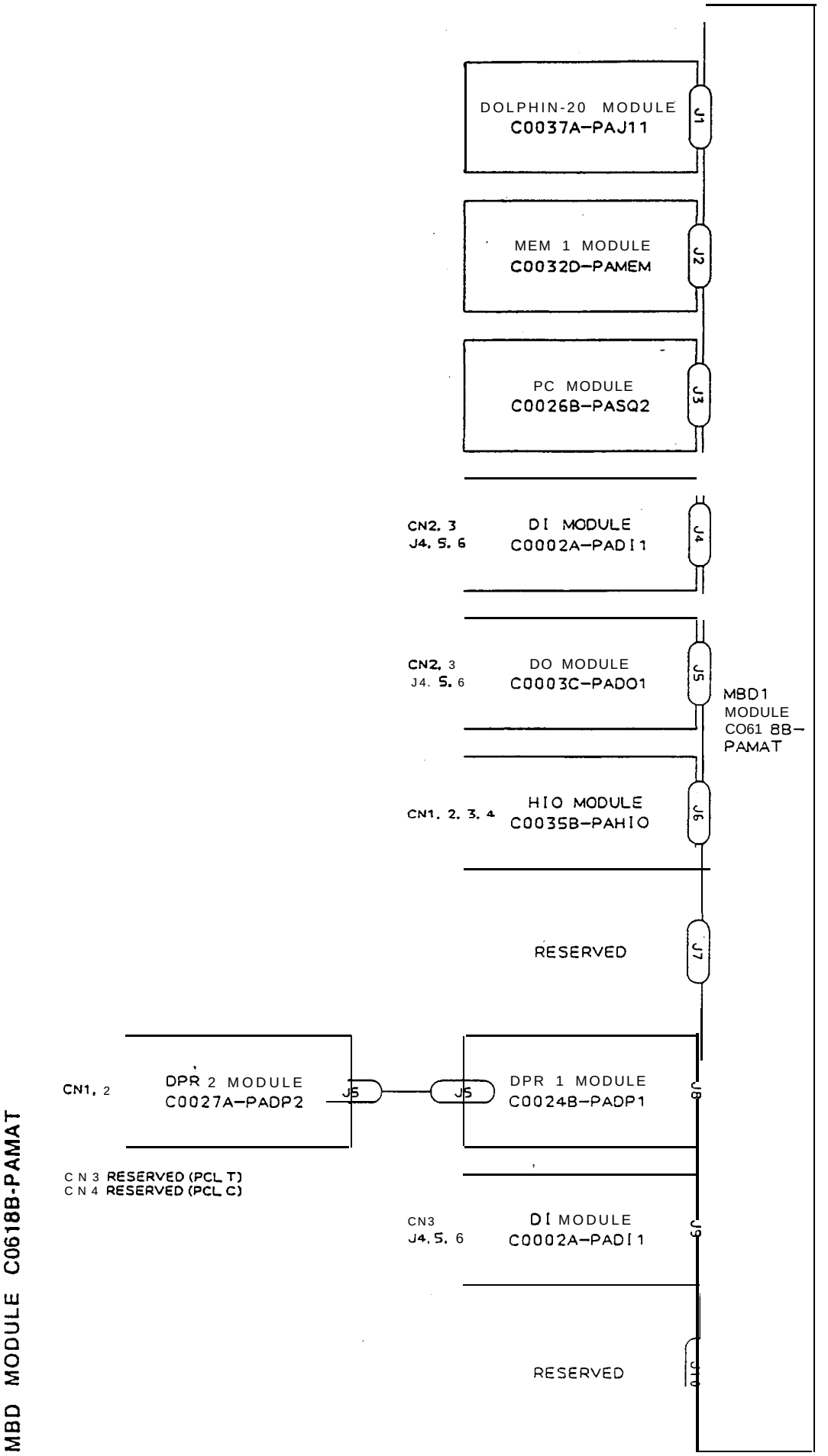
[TM4]

PIN NO.	1	2	3
SIGNAL	0V		WFWS
LINE NO.	N2	O	54

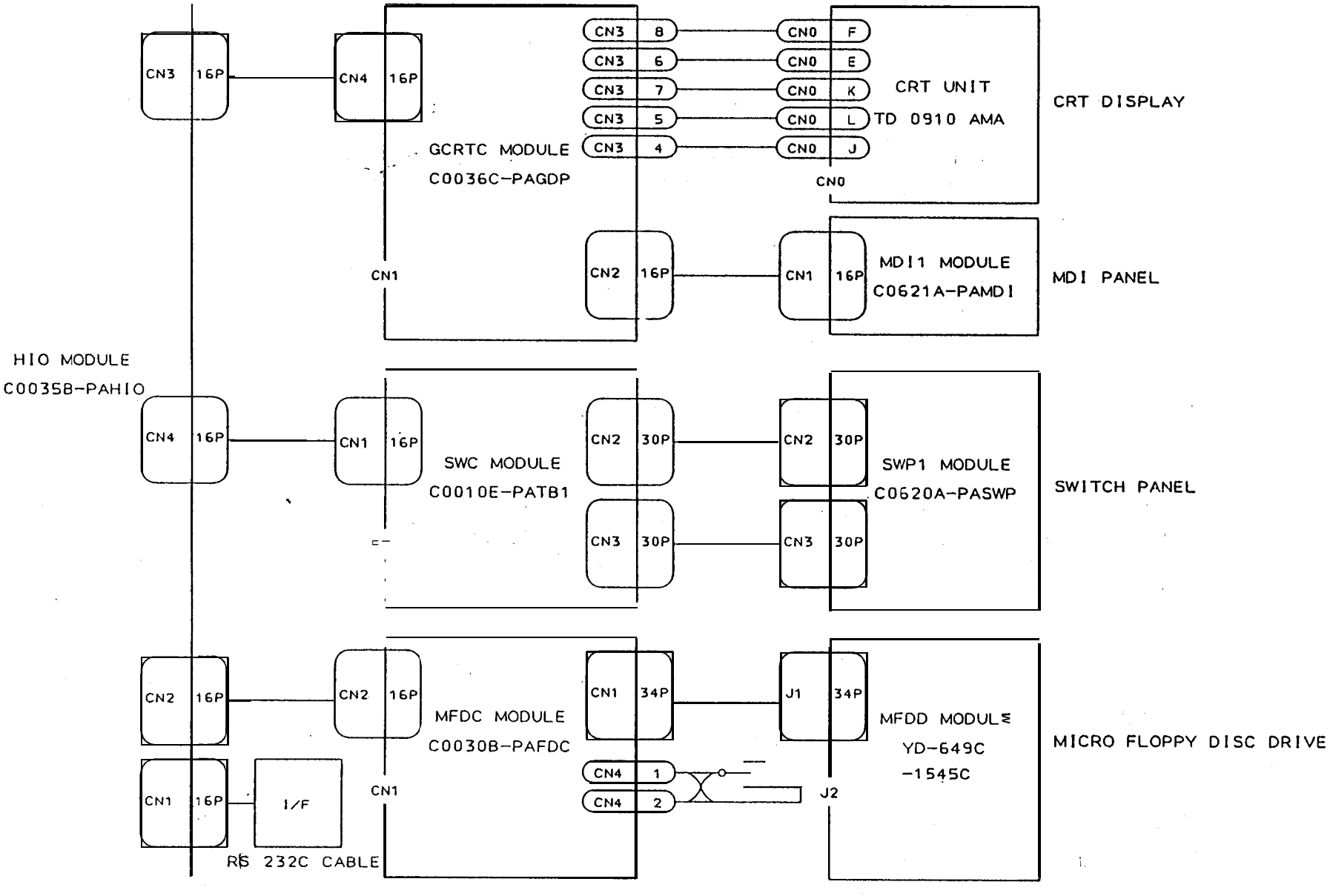
[TB1]

TERMINAL NO.	1	2	3	4	5	6	7	8	9	10
SIGNAL	0V	WHEM2	WHSTP3	WCST2	WORG	WSRST	WORCY	#SFDV	SFDVON	+24V
LINE NO	N2	114	115	116	117	118	119	120	121	P2

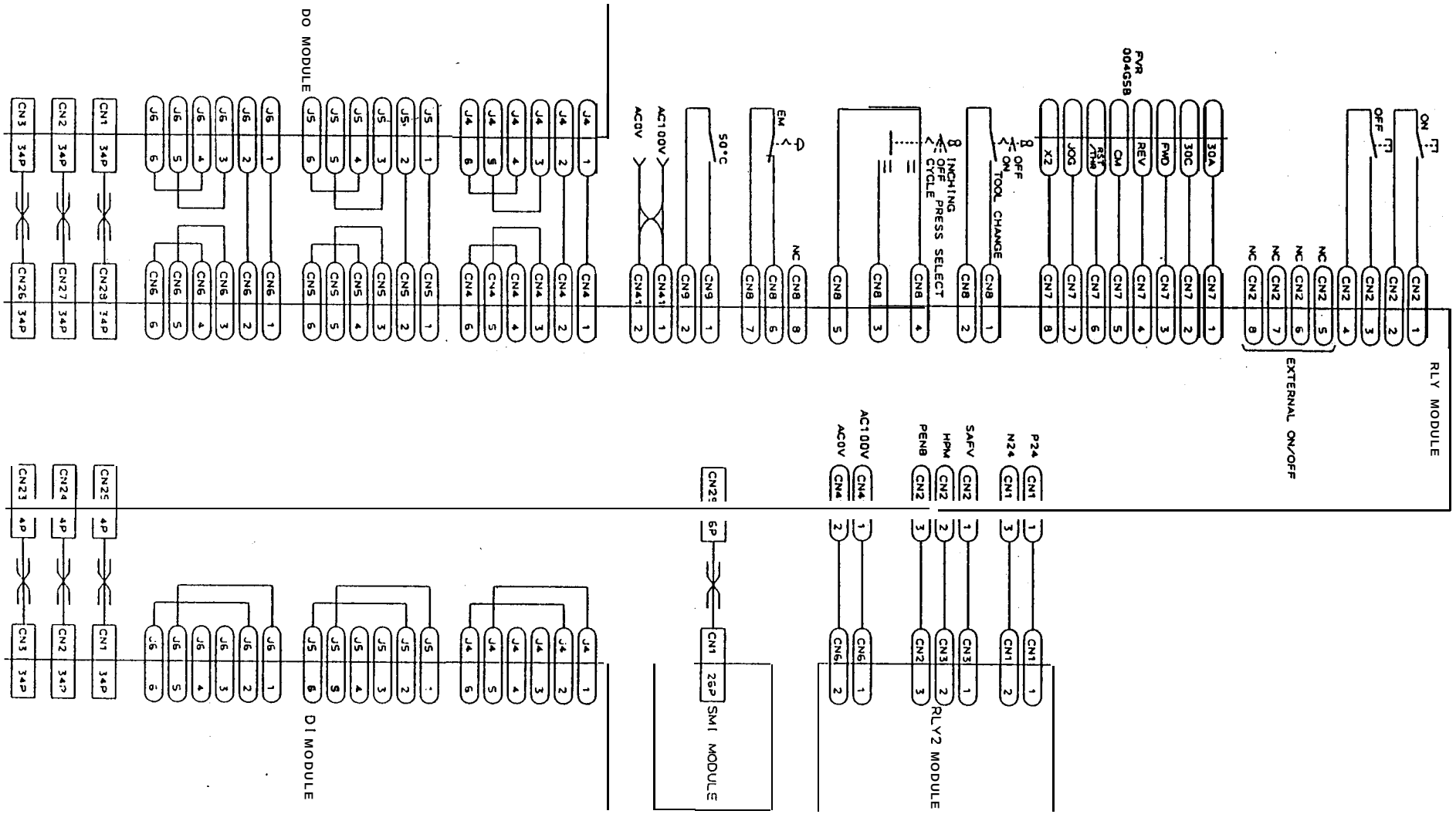

PU-001
PCL1 1
PCL1 2
PCL1 3
PCL1 4
PCL1 5
CN4 1 G5
CN4 2 +5
CN4 3 +15
CN4 4 G15
CN4 5 -15
PCL x MODULE
PCL2 1
PCL2 2
PCL2 3
PCL2 4
PCL2 5
CN4 1 G5
CN4 2 +5
CN4 3 +15
CN4 4 G15
CN4 5 -15
PCL Y MODULE
RLY1 : AQ 10A2-Z 4/30 "DC
PCL3 1
PCL3 2
PCL3 3 NC
PCL3 4 NC
PCL3 5 NC
G5
+5
RLY1
4
3
PCL4 1
PCL4 2
PCL4 3
PCL4 4
PCL4 5
RESERVED (PCL C)
CN3 1
CN3 2
CN3 3
CN3 4
CONTROL 1
CONTROL 2
CONTROL 3
RLY MODULE
SWC 2
SWC 1
CN4 1 +5
CN4 2 G5
NC CN4 3
NC CN4 4
SWC MODULE
CRTC 2
CRTC 1
CN1 1 +5
NC CN1 2
CN1 3 G5
NC CN1 4
GCRTC MODULE
MFDC 2
MFDC 1
CN1 1 +5
NC CN1 2
CN1 3 G5
NC CN1 4
MFDC MODULE
AC100V
AC0V
AC100V 1
AC100V 2
AC100V 3
MFDD 2
MFDD 1
MFDD 4
MFDD 3
J2 1 +5
J2 2 G5
J2 3 G12
J2 4 +12
MFDD MODULE
CRT 3
CRT 2
CRT 1
CN0 H +12
CN0 A G12
CRT UNIT
RLY 3
RLY 4
RLY 1
RLY 2
RLY 5
RLY 6
RLY 7
RLY 8
CN61 1 +12
CN61 2 +12
CN61 3 G12
CN61 4 G12
CN61 1 +24
CN61 2 +24
CN61 3 G24
CN61 4 G24
RLY MODULE
MBD 4
MBD 5
MBD 6
MBD 1
MBD 2
MBD 3
MBD 7
MBD 8
MBD 9
T1 1 +5
T1 2 +5
T1 3 G5
T1 4 G5
T1 5 +12
T1 6 G12
MBD MODULE
PU-001

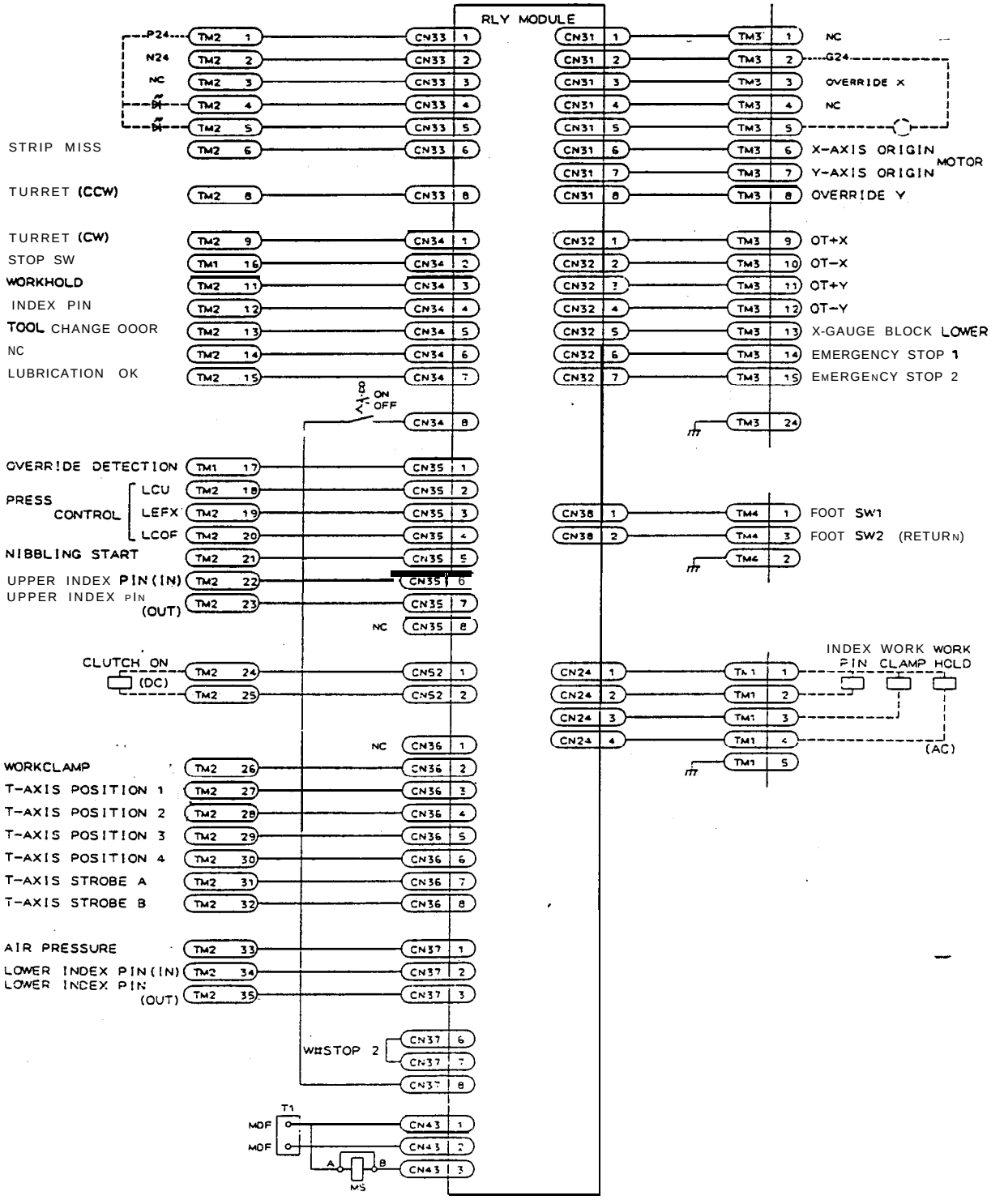

MBD MODULE C0618B-PAMAT
DOLPHIN-20 MODULE
C0037A-PAJ11
J1
MEM 1 MODULE
C0032D-PAMEM
J2
PC MODULE
C0026B-PASQ2
J3
CN2, 3
J4, 5, 6
DI MODULE
C0002A-PADI1
J4
CN2, 3
J4, 5, 6
DO MODULE
C0003C-PADO1
J5
MBD1
MODULE
C0618B-
PAMAT
CN1, 2, 3, 4
HIO MODULE
C0035B-PAHIO
J6
RESERVED
J7
CN1, 2
DPR 2 MODULE
C0027A-PADP2
J5
J5
DPR 1 MODULE
C0024B-PADP1
J8
CN3 RESERVED (PCL T)
CN4 RESERVED (PCL C)
CN3
J4, 5, 6
DI MODULE
C0002A-PADI1
J9
RESERVED
J10

HIO MODULE C0035B-PAHIO



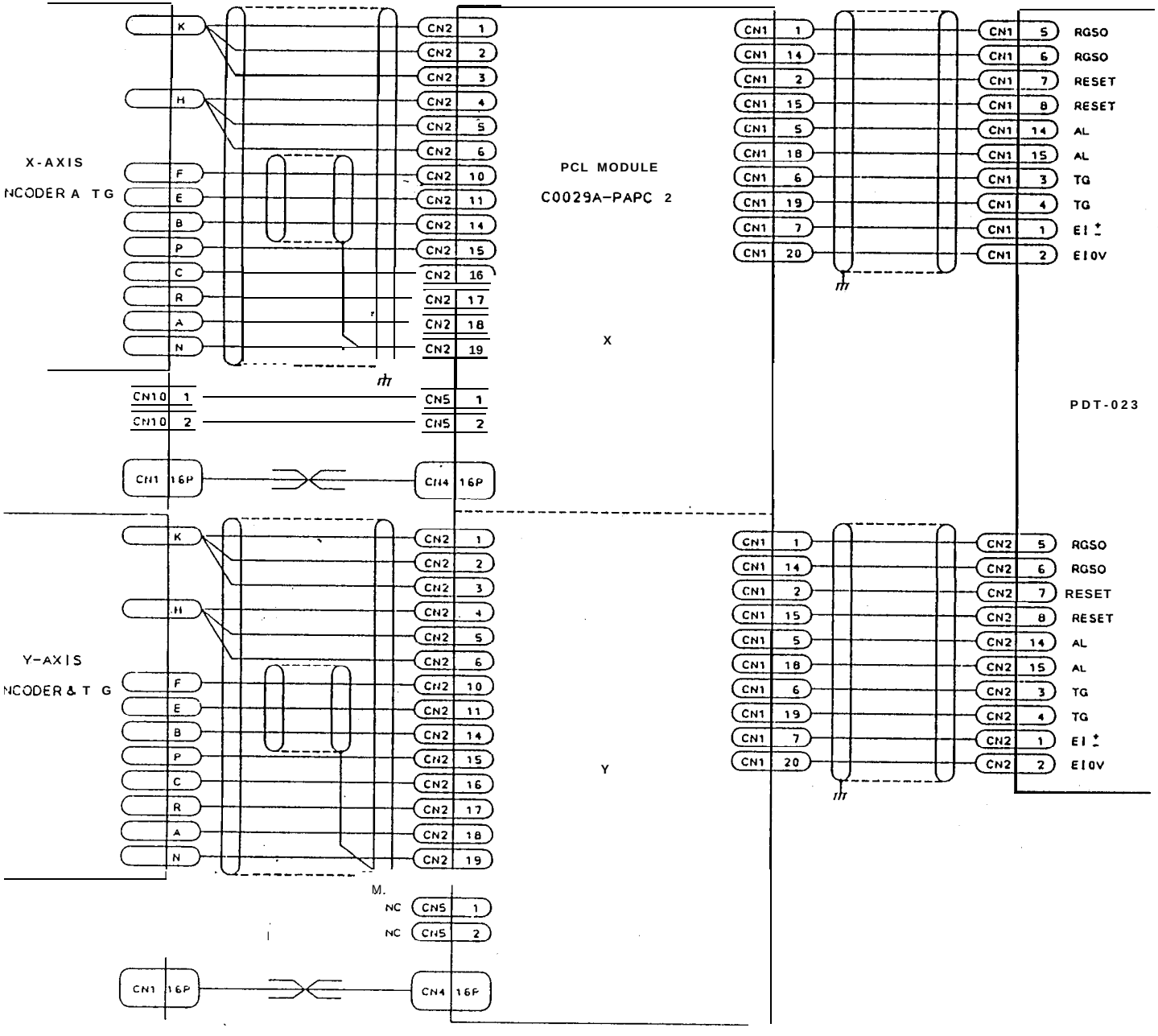
RLY MODULE C06500-PARLY (1



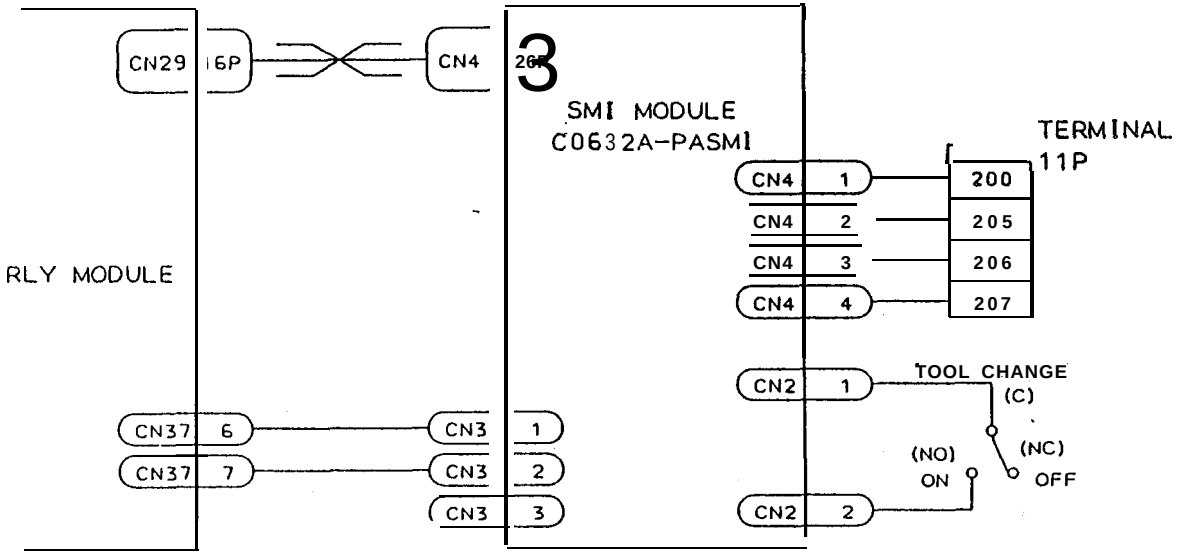


RLY MODULE C06500-PARLY (2)

CL MODULE C0029A-PAPC2

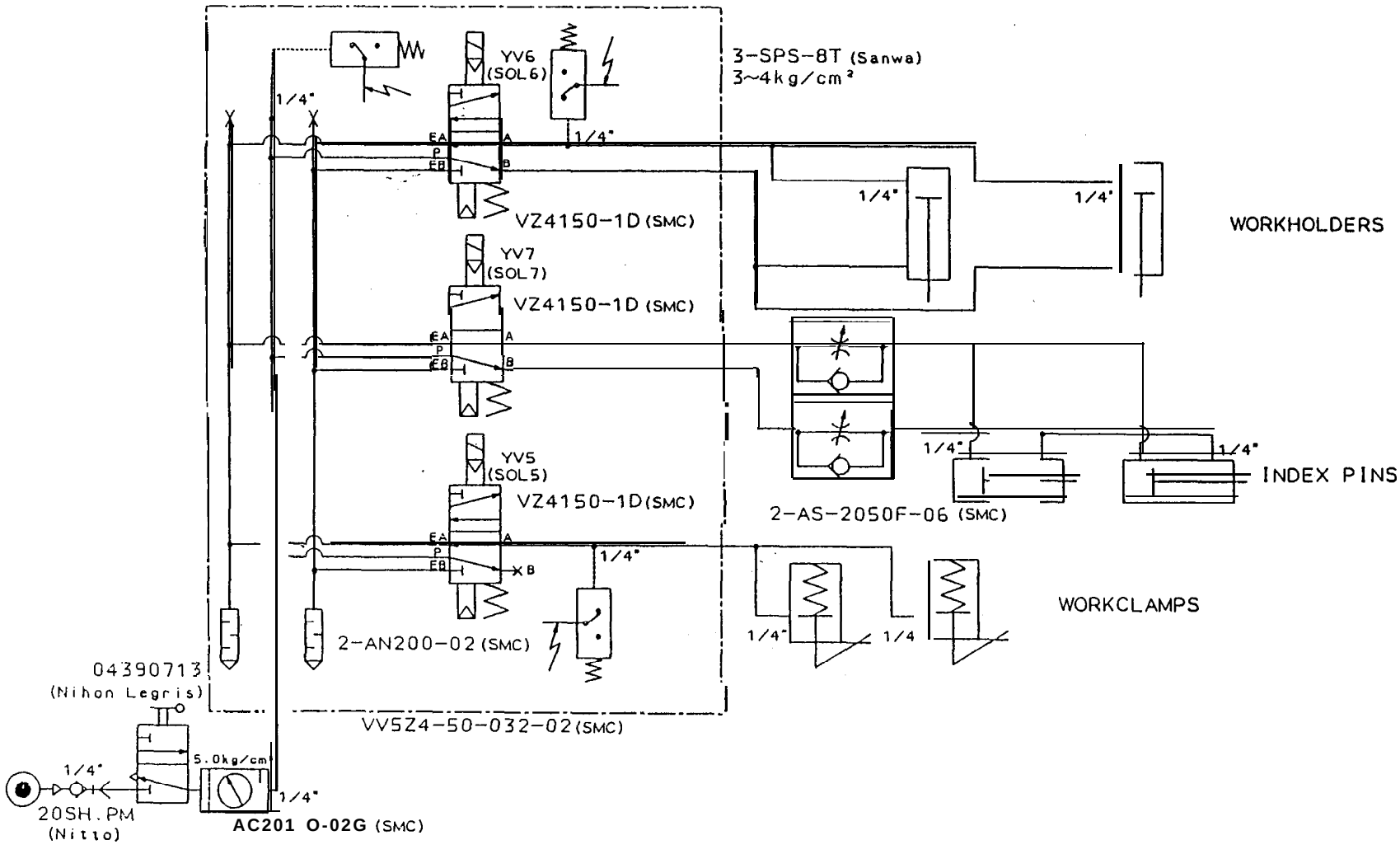


SMI MODULE C0632A-PASMI

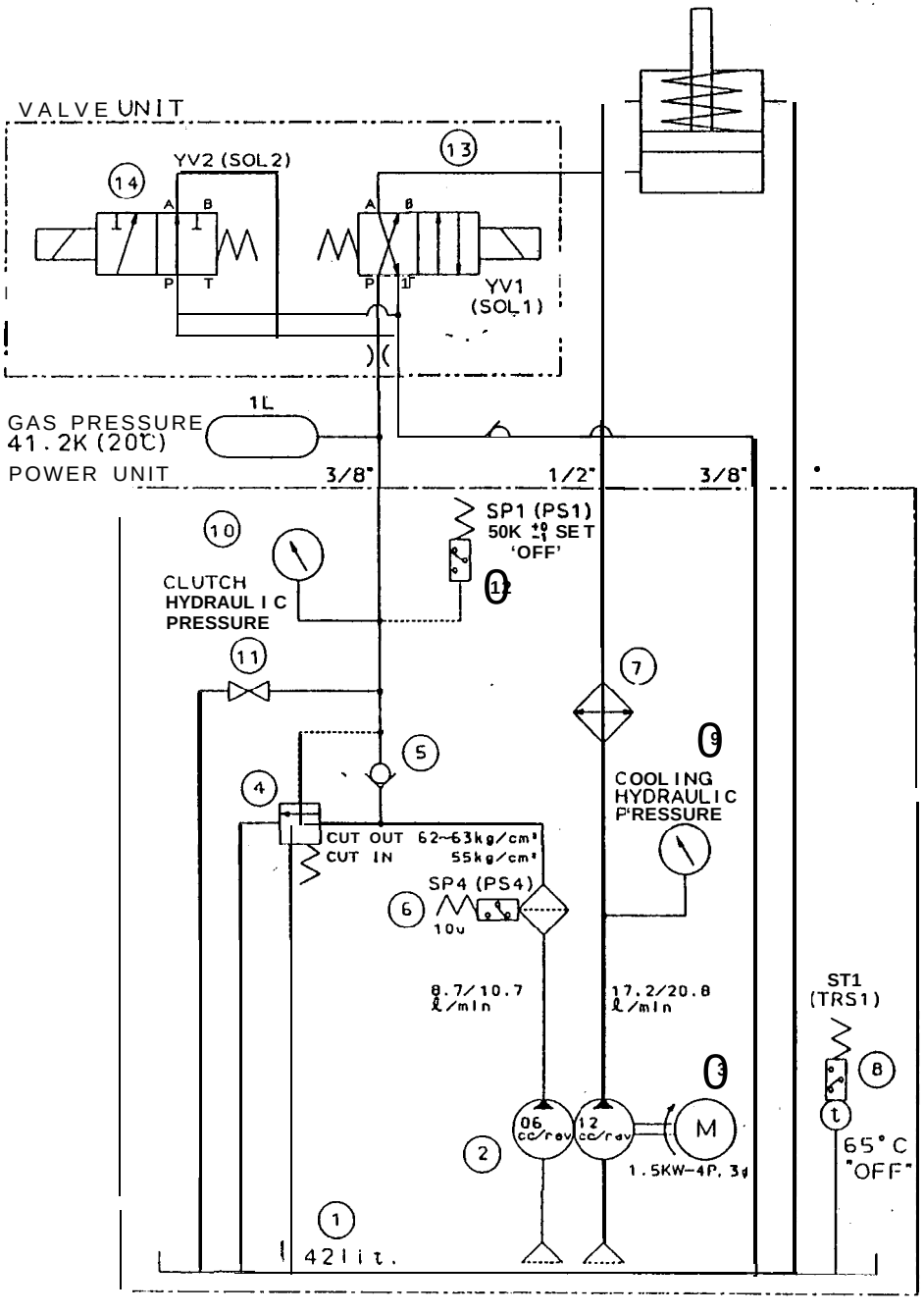


PNEUMATIC CIRCUIT

PNEUMATIC CIRCUIT



HYDRAULIC CIRCUIT



PARTS LIST

HYDRAULIC

No.	PARTS NAME	TYPE	REMARKS	Q'TY
1	Oil reservoir	42L	Uchida	1
	Oil level gauge	8d-80h	M a i u w a	—
	Oil filler & air breather	MSA-C50T-P	Masuda	
2	Gear pump	GSP2-A0S12A06AR-A0-901-0	Uchida	1
3	Induction motor	1.5 kw-4P (Totally enclosed fan cooled type)	Toshiba	1
4	Unload relief valve	DA1 0-2-A0/80-998-0	Uchida	1
5	Check valve	S10A1-0-998-0 (0.5k)	Uchida	1
6	Line filter	UCF-E-03-1 Ou	Element U03-01 OP Masuda	1
7	Heat exchanger	D-I 6	Toyo radiator	1
8	Thermo switch	ALS-C1090C	Saginomiya	1
9	Pressure gauge	Du-PT1/4 60φ x 10k	Yodogawa	1
10	Pressure gauge	DGu-PT1/4 609 x 150k	Ycdogawa	1
11	S t o p v a l v e	T-02AT-330	Uchida	1
12	Pressure switch	TDZ-3F	Taihei	1
13	Solenoid valve	4WE6YA0/AG24NZ4-956-0	Uchida	1
14	Solenoid valve	3WEl 0AA0/AW100-00NPL	Uchida	1