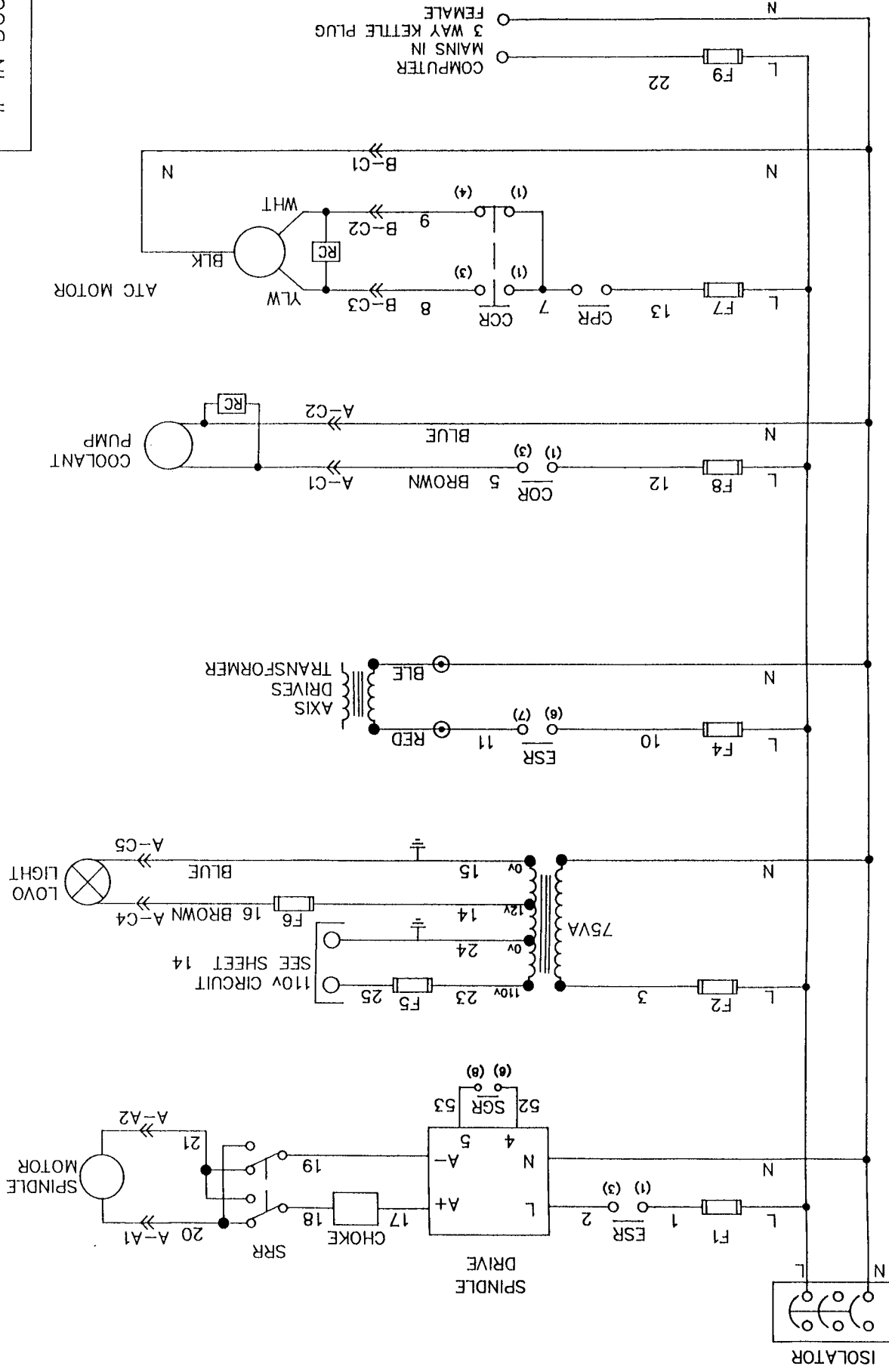


IF IN DOUBT ASK

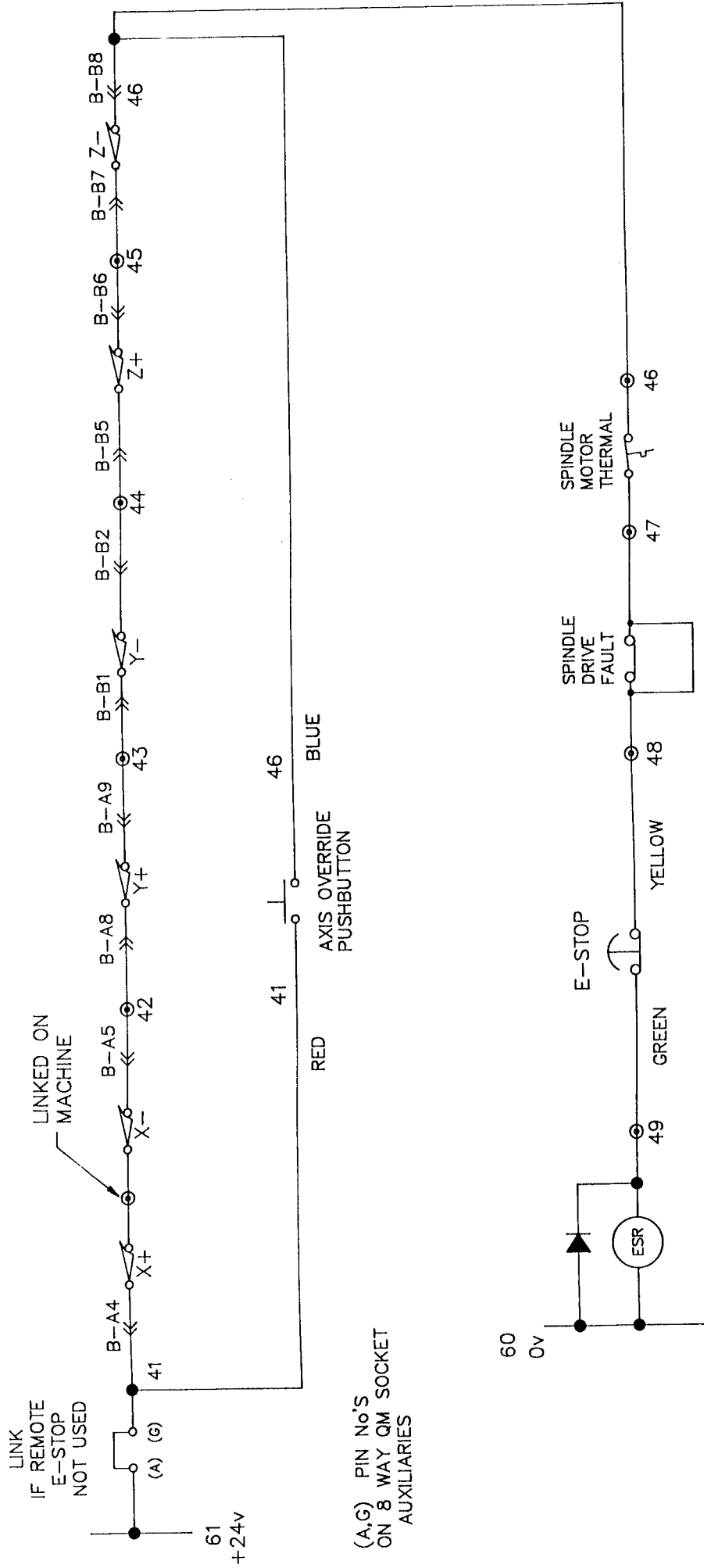


NUMBERS IN BRACKETS REFER TO RELAY CONNECTIONS  
» REFERS TO PIN NOS ON PLUG AND SOCKET ASSEMBLY

TRIAC VMC  
MAIN POWER  
SCHEMATIC  
(SPRINT DRIVE)

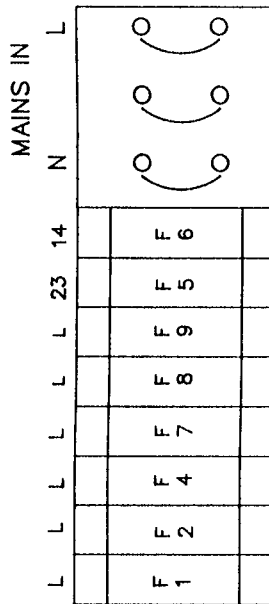
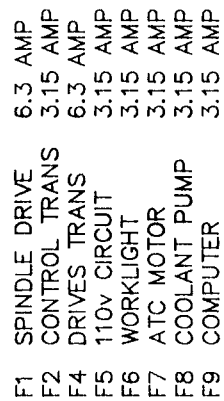
SHEET 1  
OF

[ STC ]

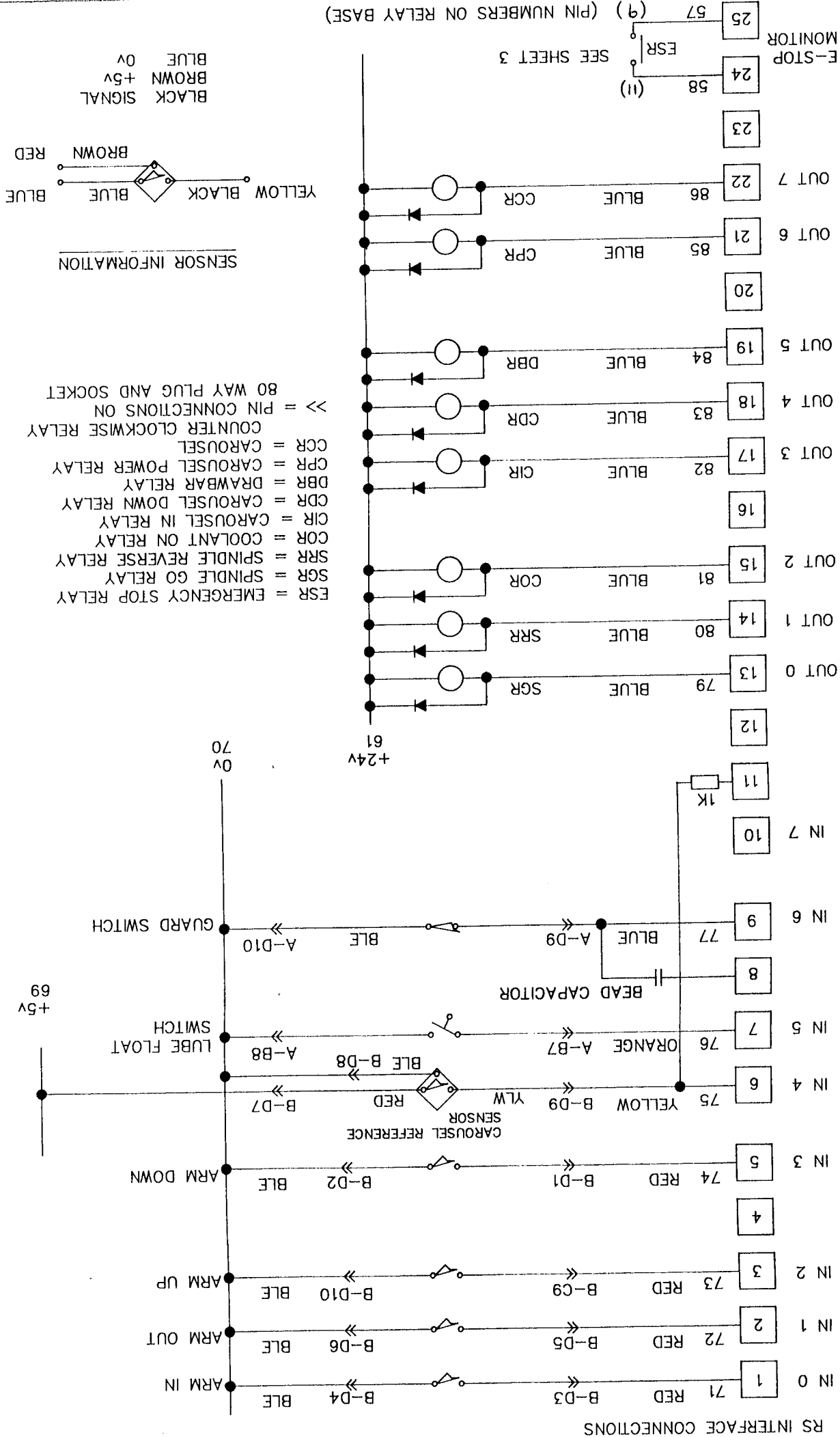


⊙ TERMINALS ON MAIN PANEL  
 << PIN CONNECTIONS ON 80 WAY PLUG

\_\_\_\_\_

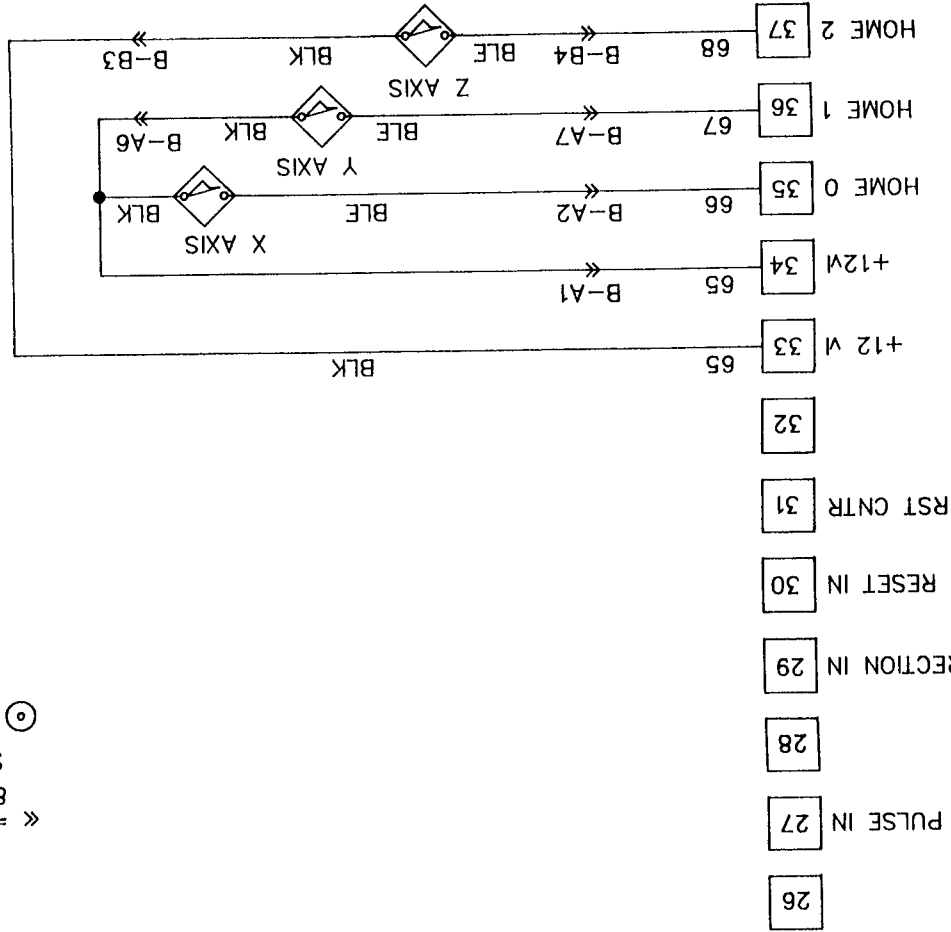
[illegible]

TRIAC VMC  
RELAY CONNECTIONS  
(SPRINT DRIVE)



« = PIN CONNECTIONS ON  
80 WAY PLUG & SOCKET  
SEE SHEET  
= TERMINAL BLOCK ON  
MAIN PANEL

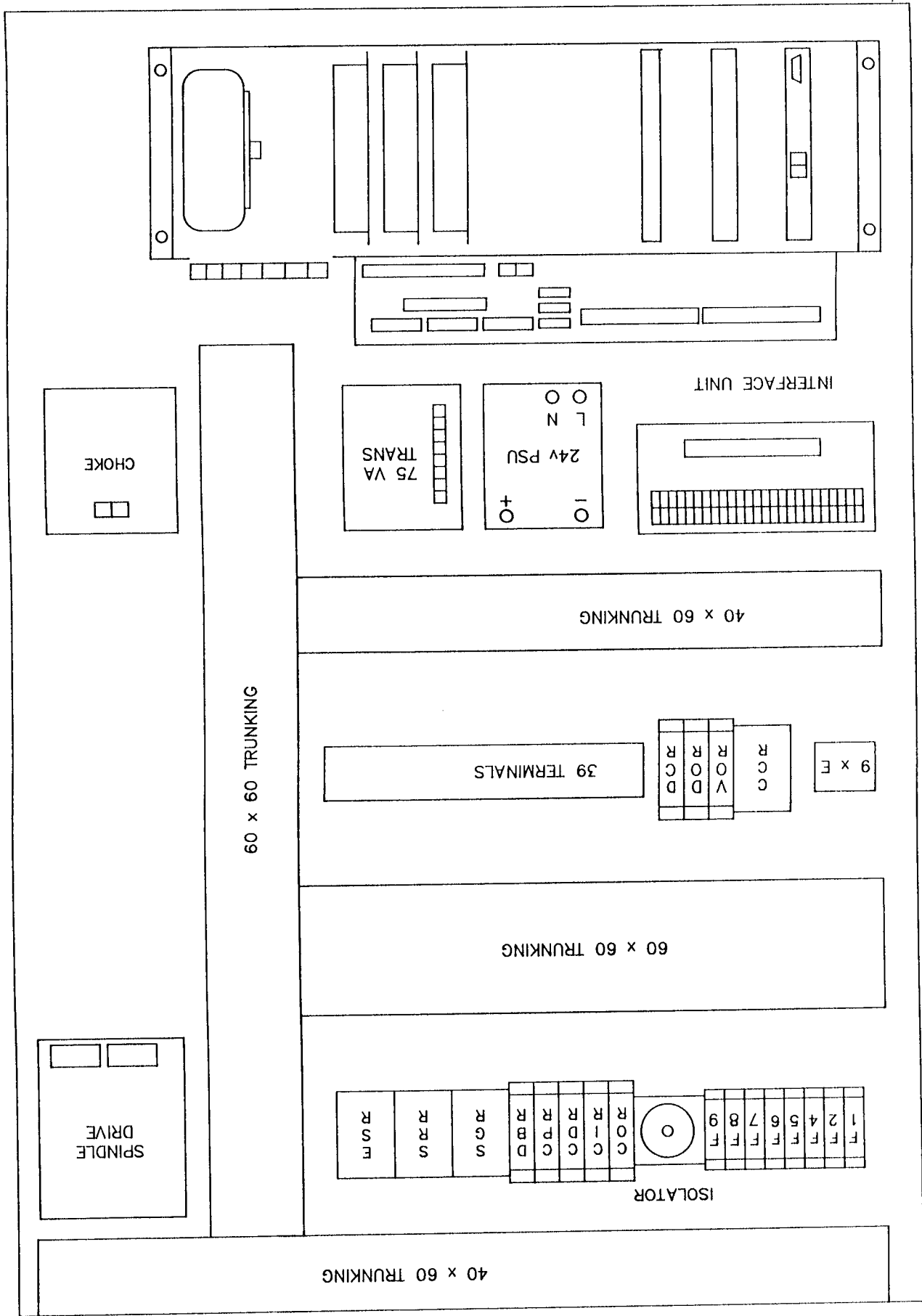
DATUM  
SENSORS



NOTE  
X & Y AXIS DATUMS  
ARE COMMONED ON  
INTERFACE UNIT

SPRINT DRIVE  
TERMINALS  
SEE SHEET 3

RS 50 WAY INTERFACE CONNECTIONS



RS INTERFACE UNIT  
50 WAY HEADER  
SEE SHEET

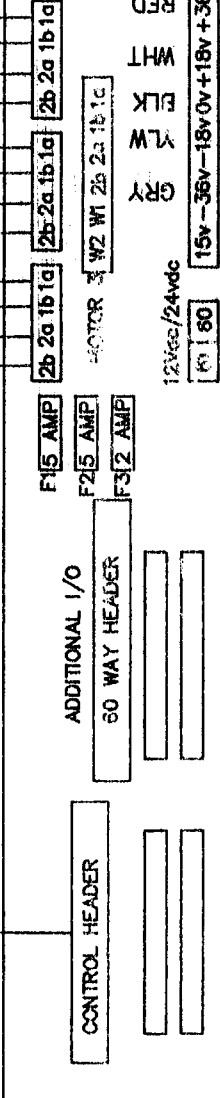
Z AXIS MOTOR  
BLK / WHT  
RD / WHT  
RD

Y AXIS MOTOR  
BLK / WHT  
RD / WHT  
RD

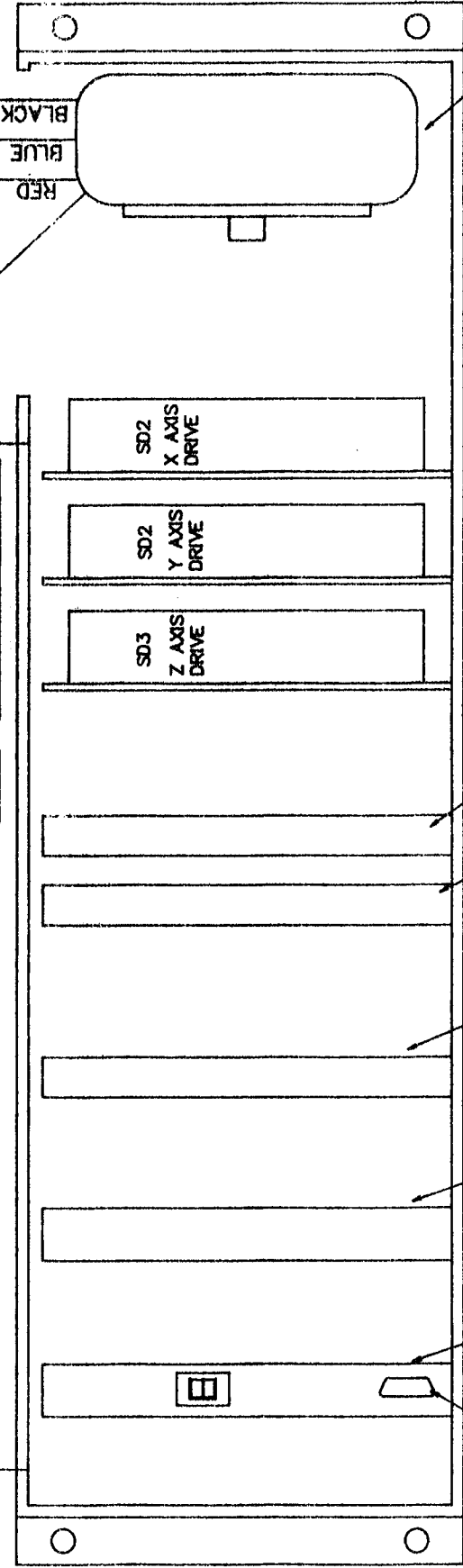
X AXIS MOTOR  
BLK / WHT  
RD / WHT  
RD

RIBBON CABLE

MAINS IN  
SEE SHEET



3 WAY CONNECTOR



DRIVES TRANSFORMER  
(TO BE MOUNTED ON  
INSIDE OF RACK)

SHEET No 7  
OF  
OPTIMISED CONTROL  
RACK ASSEMBLY

# ROW A

## PLUG A

PIN No	COLOUR	CABLE No	DESTINATION
1	BROWN	20	SPINDLE MOTOR 4 CORE SCREEN 1.5mm
2	BLUE	21	
3	EARTH		
4	SCREEN		
5	RED	46	THERMAL 2 CORE SCREEN
6	BLUE	47	
7			
8			
9			
10			

# ROW B

PIN No	COLOUR	CABLE No	DESTINATION
1	RED		TACHO 2 CORE SCREEN
2	BLUE		
3	SCREEN		
4	RED/GREEN	6	LUBE PUMP 0.2mm SINGLES
5	RED/BLUE	24	
6	EARTH		
7	ORANGE	76	LUBE FLOAT SWITCH
8	ORANGE	70	
9	BLACK	105	DOOR OPEN SOLENOID
10	BLACK	107	DOOR CLOSE SOLENOID

1 mm SINGLES

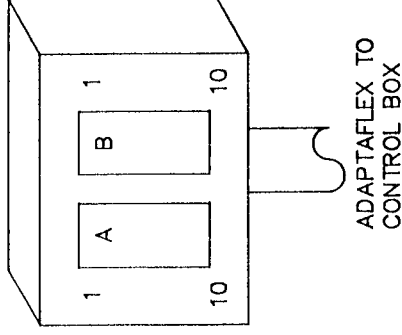
# ROW C

PIN No	COLOUR	CABLE No	DESTINATION
1	BROWN	5	COOLANT 1mm SINGLES
2	BLUE	N	
3	EARTH		
4	BROWN	16	LOVO LIGHT 0.5mm SINGLES
5	BLUE	15	
6	RED	112	AIR PRESSURE SWITCH
7	RED		
8	RED/WHITE		X AXIS MOTOR 0.2mm SINGLES
9	BLACK		
10	BLACK/WHITE		

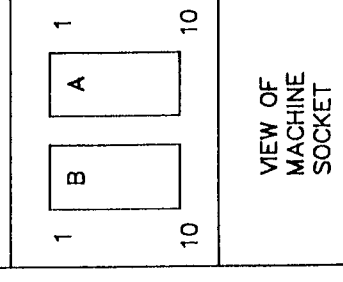
# ROW D

PIN No	COLOUR	CABLE No	DESTINATION
1	RED		Y AXIS MOTOR 0.2mm SINGLES
2	RED/WHITE		
3	BLACK		
4	BLACK/WHITE		Z AXIS MOTOR 0.2mm SINGLES
5	RED		
6	RED/WHITE		
7	BLACK		
8	BLACK/WHITE		
9	BLUE	77	GUARD SWITCH
10	BLUE	70	

(FEMALE PINS)



(MALE PINS)



TRIAC VMC  
PLUG A  
(WITHOUT SPINDLE  
SENSOR)

SHEET 8

OF



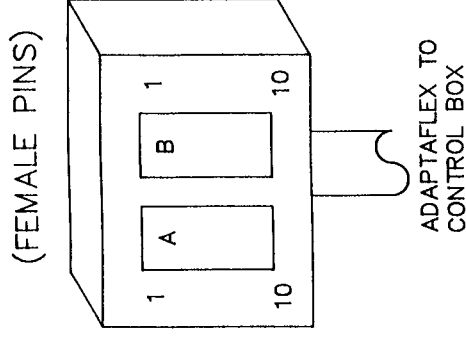
IF IN DOUBT ASK

# ROW A PLUG B

PIN No	COLOUR	CABLE No	DESTINATION
1	BLACK	65	X DATUM
2	BLUE	66	0.2mm SINGLES
3	BROWN	29	VICE SOLENOID 1mm SINGLE
4	WHITE	41	0.2mm SINGLES
5	YELLOW	42	X +/- O/TRAVEL
6	BLACK	65	Y DATUM
7	BLUE	67	0.2mm SINGLES
8	RED	42	Y+ O/TRAVEL
9	YELLOW	43	0.2mm SINGLES
10	BLUE	61	AIR PRESSURE SWITCH 0.2mm SINGLE

## ROW B

PIN No	COLOUR	CABLE No	DESTINATION
1	RED	43	Y- O/TRAVEL 0.2mm SINGLES
2	YELLOW	44	0.2mm SINGLES
3	BLACK	65	Z DATUM
4	BLUE	68	0.2mm SINGLES
5	RED	44	Z+ O/TRAVEL 0.2mm SINGLES
6	YELLOW	45	0.2mm SINGLES
7	RED	45	Z- O/TRAVEL 0.2mm SINGLES
8	YELLOW	46	0.2mm SINGLES
9	RED	103	GUARD FULLY OPEN SWITCH
10	BLUE	61	2 CORE SCREEN



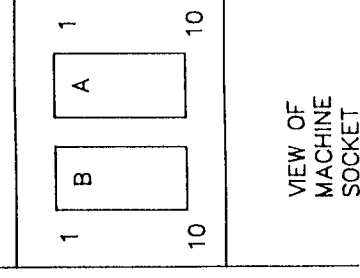
## ROW C

PIN No	COLOUR	CABLE No	DESTINATION
1	BLACK	N	ATC MOTOR
2	WHITE	9	1mm SINGLES
3	YELLOW	8	ARM IN SOLENOID
4	BLACK	26	ARM DOWN SOLENOID
5	BLACK	27	DRAWBAR SOLENOID
6	BLACK	28	SOLENOID COMMON 1mm SINGLES
7	BLACK	24	0.2mm SINGLES
8	EARTH		
9	RED	73	ARM UP LIMIT SWITCH
10	BLUE	70	0.2mm SINGLES

## ROW D

PIN No	COLOUR	CABLE No	DESTINATION
1	RED	74	ARM DOWN LIMIT SWITCH 0.2mm SINGLES
2	BLUE	70	0.2mm SINGLES
3	RED	71	ARM IN LIMIT SWITCH 0.2mm SINGLES
4	BLUE	70	0.2mm SINGLES
5	RED	72	ARM OUT LIMIT SWITCH 0.2mm SINGLES
6	BLUE	70	0.2mm SINGLES
7	RED	69	4 CORE SCREEN
8	BLUE	70	ATC SENSOR
9	YELLOW	75	
10	SCREEN		

(MALE PINS)

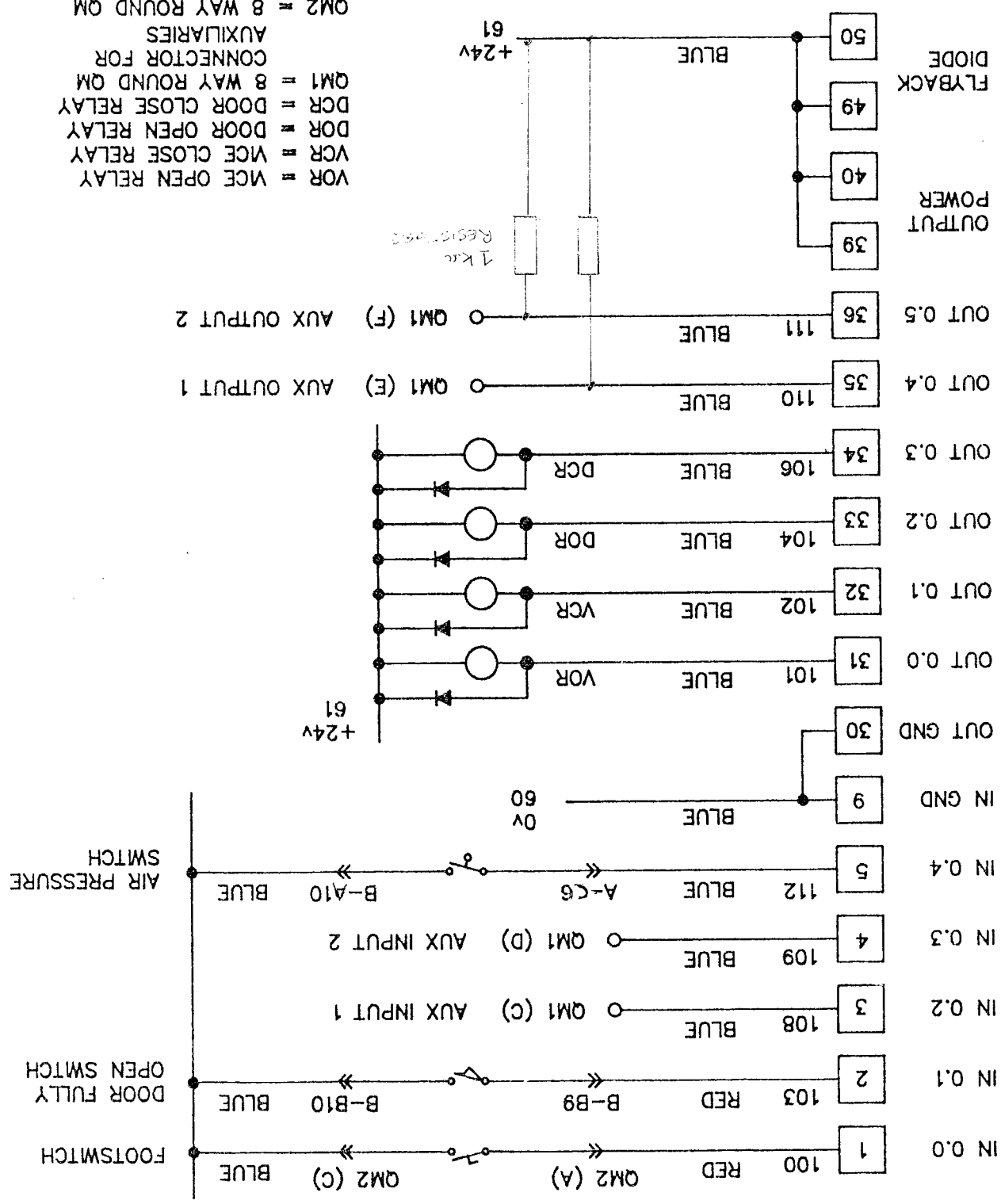


TRIAC VMC PLUG B

SHEET 9 OF

60 WAY ADDITIONAL I/O CONNECTOR

+24v  
61



VOR = VCE OPEN RELAY  
VCR = VCE CLOSE RELAY  
DOR = DOOR OPEN RELAY  
DCR = DOOR CLOSE RELAY  
QM1 = 8 WAY ROUND QM  
AUXILIARIES  
QM2 = 8 WAY ROUND QM  
CONNECTOR FOR  
CONNECTOR FOR  
FOOTSWITCH  
>> = PIN CONNECTIONS ON  
80 WAY PLUG AND SOCKET

IF IN DOUBT ASK

COM 3

COMPUTER RACK SERIAL LINK

25 WAY D TYPE  
FEMALE

2 — RED — 2  
3 — BLUE — 3  
6 — — — 4  
20 — — — 6  
5 — — — 7  
4 — YELLOW — 8  
7 — GREEN — 9  
— SCREEN — 9

4 CORE SCREEN

COMPUTER

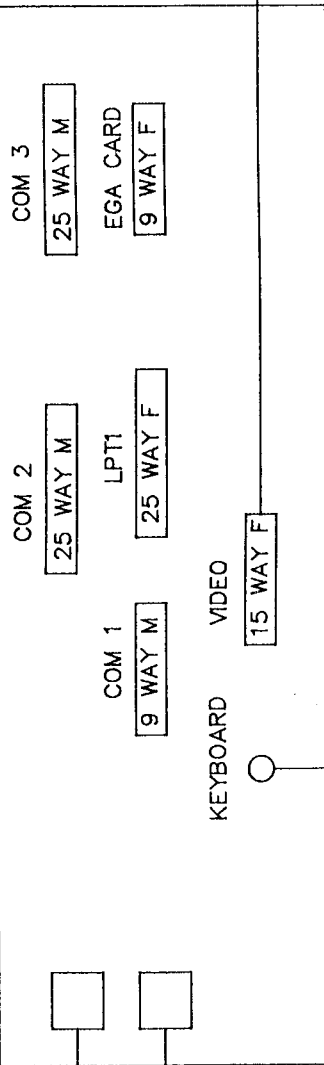
HIGH DENSITY  
15 WAY D TYPE  
MALE

1 — RED — 1  
2 — GREEN — 2  
3 — BLUE — 3  
13 — YELLOW — 13  
14 — MAUVE — 14  
10 — SCREEN — 10

MONITOR

HIGH DENSITY  
15 WAY D TYPE  
FEMALE

8 CORE SCREEN



COM 2

COMPUTER

25 WAY D TYPE  
FEMALE

2 — RED — 2  
3 — BLUE — 3  
4 — YELLOW — 4  
5 — GREEN — 6  
6 — BLACK — 7  
7 — SCREEN — 20  
20 — BROWN — 20

8 CORE SCREEN

KEYPAD

25 WAY D TYPE  
MALE

2 — RED — 2  
3 — BLUE — 3  
4 — YELLOW — 4  
5 — GREEN — 6  
6 — BLACK — 7  
7 — SCREEN — 20  
20 — BROWN — 20

COM 1

CABINET

25 WAY D TYPE  
MALE

1 — RED — 8  
2 — WHITE — 3  
3 — BLUE — 2  
4 — GREEN — 20  
5 — SCREEN — 7  
6 — MAUVE — 6  
7 — BROWN — 4  
8 — BLACK — 5  
9 — YELLOW — 22

8 CORE SCREEN

COMPUTER

9 WAY D TYPE  
FEMALE

1 — RED — 8  
2 — WHITE — 3  
3 — BLUE — 2  
4 — GREEN — 20  
5 — SCREEN — 7  
6 — MAUVE — 6  
7 — BROWN — 4  
8 — BLACK — 5  
9 — YELLOW — 22

KEYBOARD CONNECTOR

5 WAY DIN SOCKET  
CABINET END

1 — RED — 1  
2 — BLUE — 2  
3 — YELLOW — 3  
4 — SCREEN — 4  
5 — GREEN — 5

4 CORE SCREEN

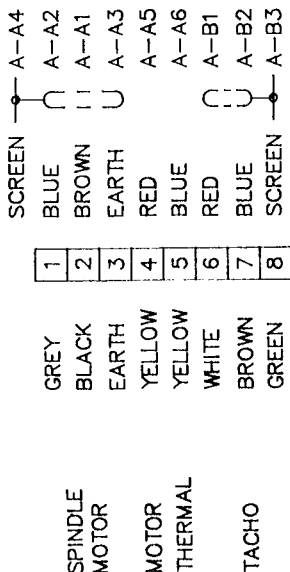
VMC  
COMPUTER  
CONNECTIONS  
(386 SX / VGA)

SHEET 11

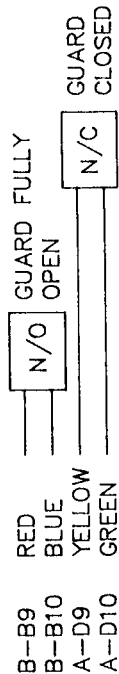
OF

[ S11E ]

# POWER GUARD SWITCH CONNECTIONS 4 CORE SCREEN

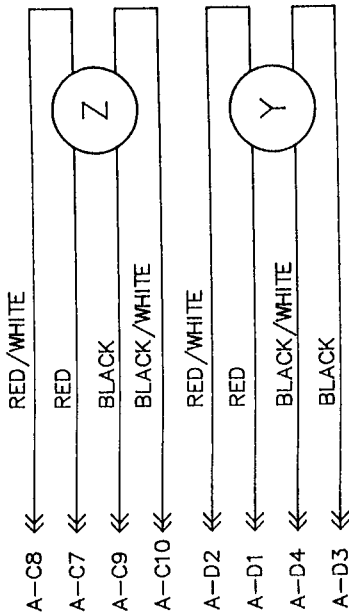
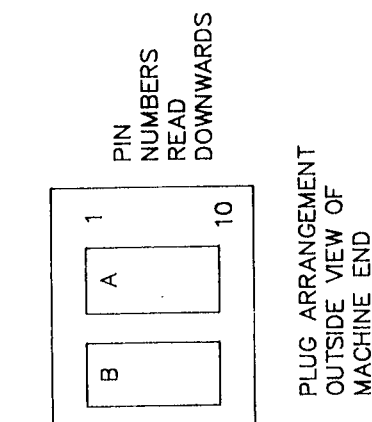


TERMINAL BLOCK  
ON SPINDLE MOTOR

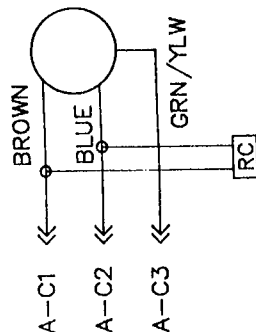


8 CORE FROM X AXIS  
DATUM AND O/TRAVELS

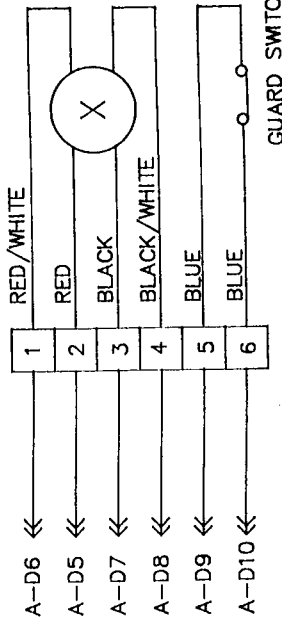
- BLACK B-A1
- BLUE B-A2
- WHITE B-A4
- YELLOW B-A5



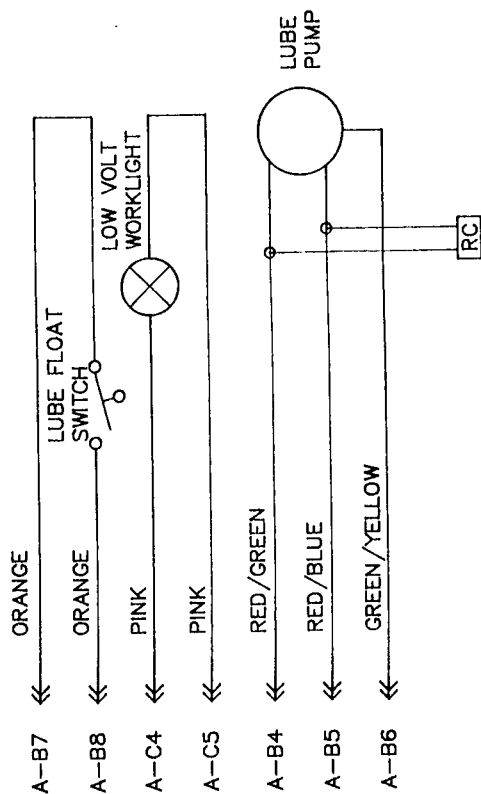
COOLANT PUMP



CONNECTION BOX  
MOUNTED  
ON X AXIS

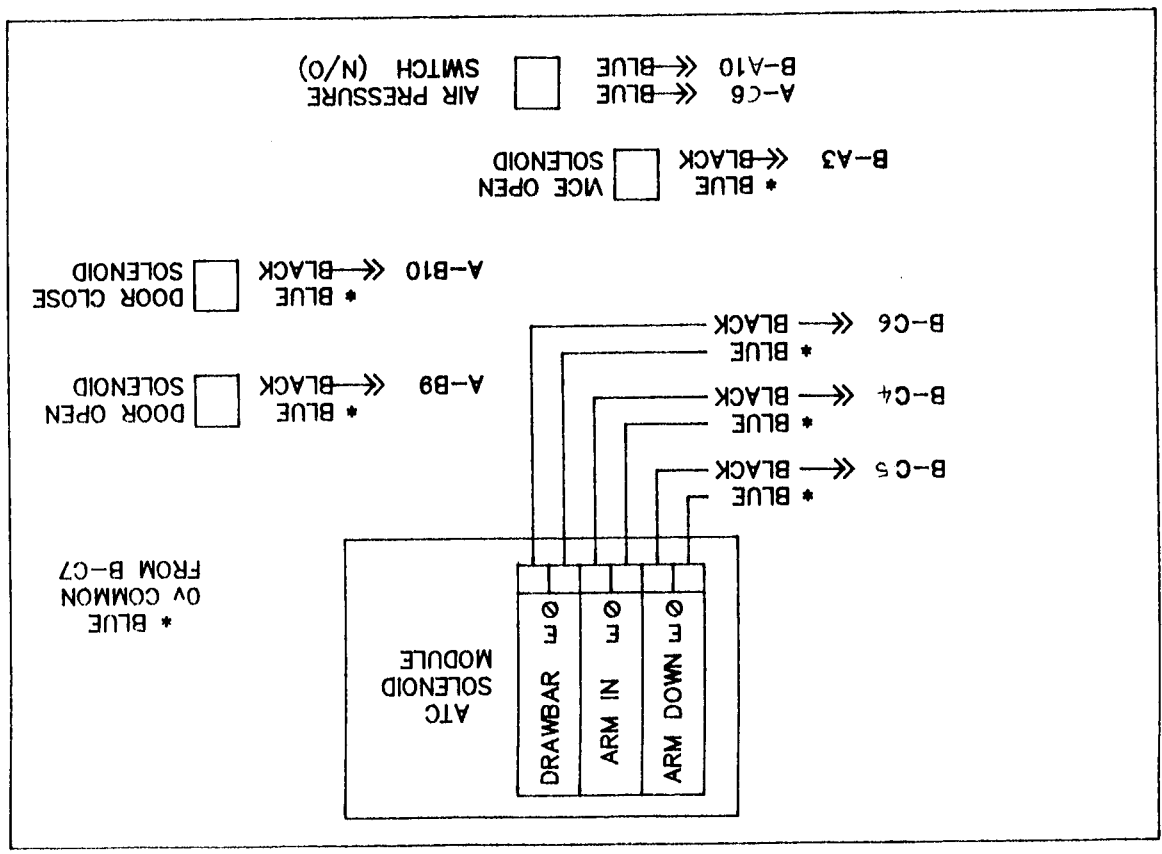
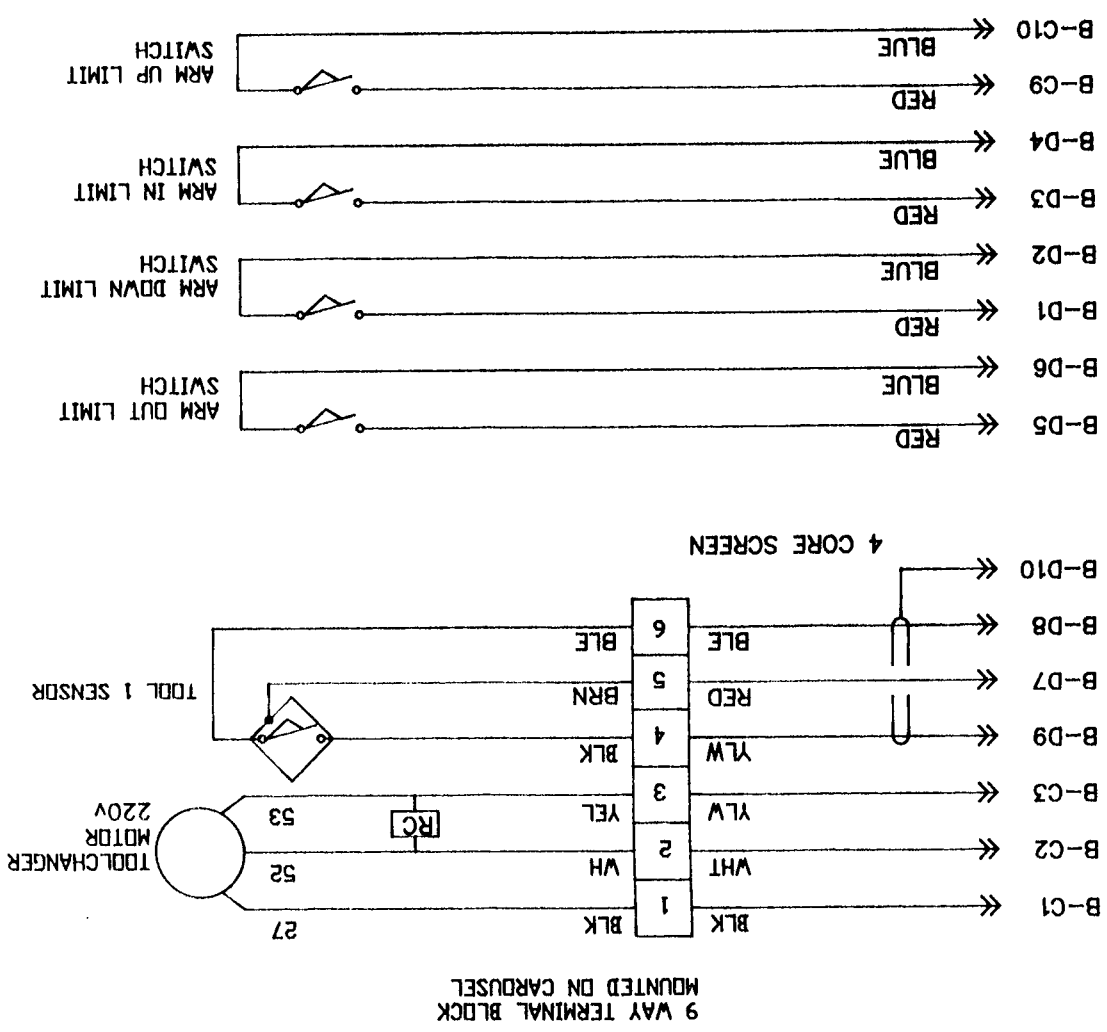


(NON POWER )  
(DOOR MACHINE)

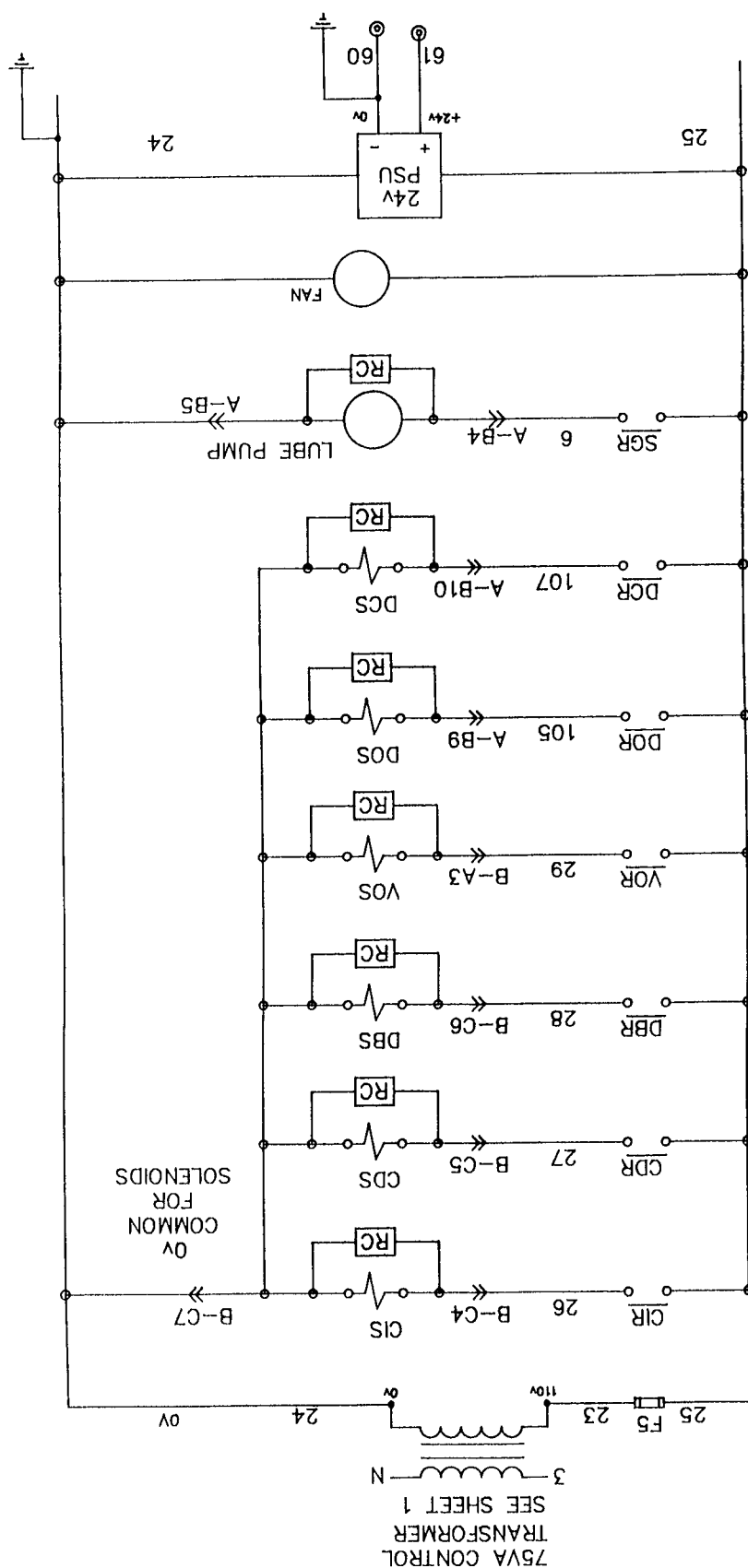


TRIAC VMC  
LIMIT SWITCH  
& MOTOR WIRING

SHEET 12  
OF



CIS CAROUSEL IN SOLENOID  
CDS CAROUSEL DOWN SOLENOID  
DBS DRAWBAR SOLENOID  
VOS VICE OPEN SOLENOID



IF IN DOUBT  
ASK

HARTING 24 WAY

PIN	COLOUR
1	BROWN
2	BLUE
3	EARTH
4	RED
5	BLUE
6	BLACK
7	BROWN
8	YELLOW
9	GREEN
10	SCREEN
11	RED
12	GREEN
13	BLUE
14	YELLOW
15	MAUVE
16	SCREEN
17	RED
18	BLUE
19	YELLOW
20	GREEN
21	
22	
23	
24	

POWER TO MONITOR  
1mm FLEX

SIGNALS TO KEYPAD  
8 CORE SCREEN

SIGNALS TO MONITOR  
8 CORE SCREEN

MONITOR POWER  
1mm FLEX 3.5m

KEYPAD  
8 CORE SCREEN 3.5m

MONITOR SIGNALS  
8 CORE SCREEN 3.5m

PUSHBUTTONS  
4 CORE  
3.5m

AXIS  
OVERRIDE

E-STOP  
PUSHBUTTON

4 CORE SCREEN

SHEET 15

TRIAC VMC  
MONITOR CONNECTOR