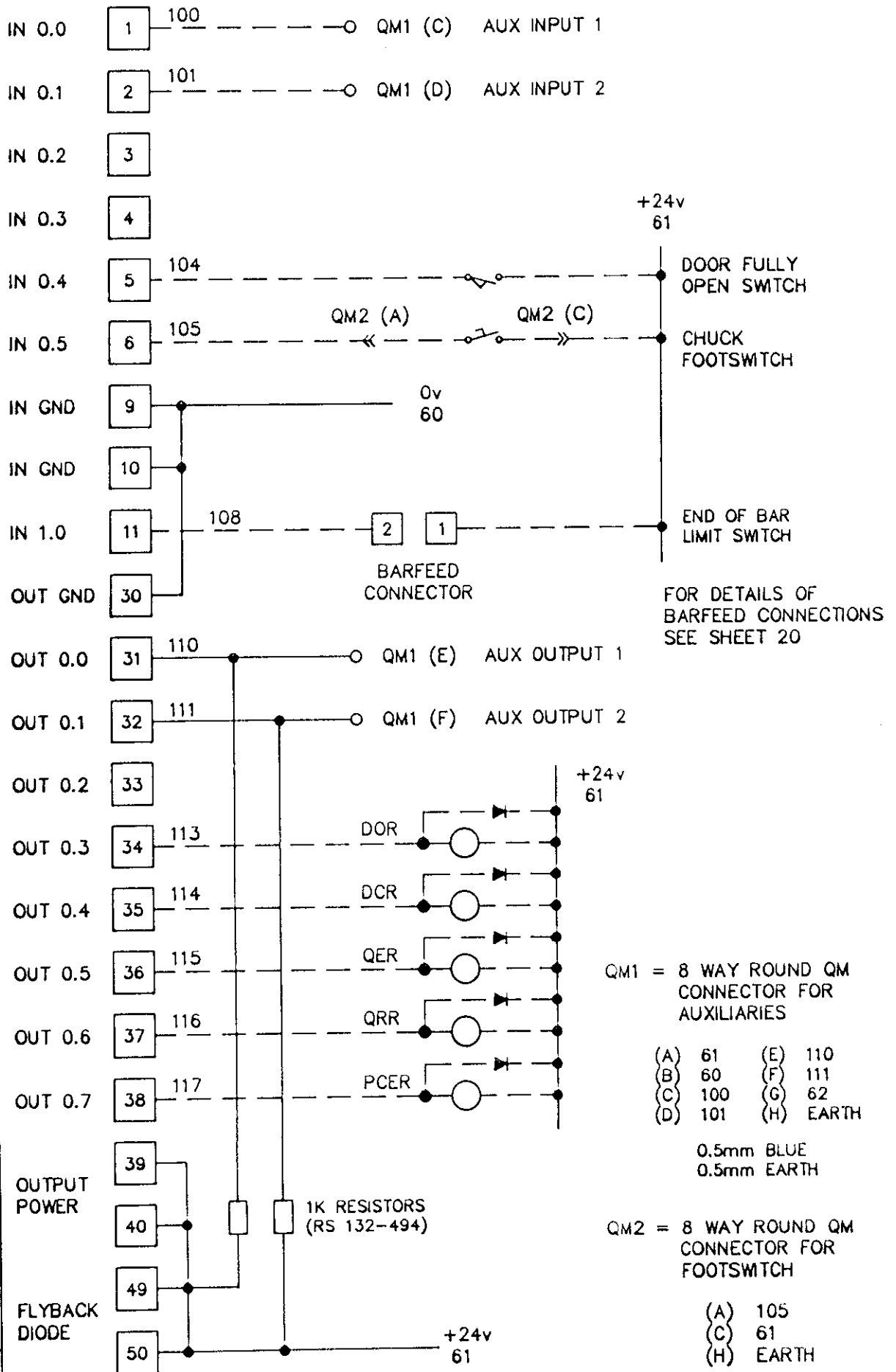


50 WAY ADDITIONAL I/O CONNECTOR



IF IN DOUBT ASK

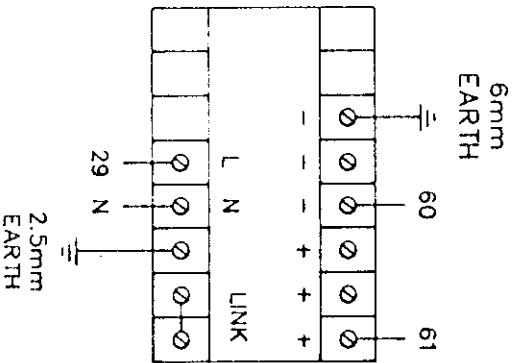
DRN BY A McHENRY

DATE 11-1-96

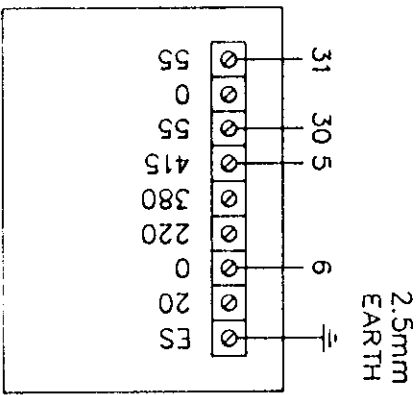
SR-12D

TU150 U
ADDITIONAL I/O
CONNECTOR
DMS TOOLPOST

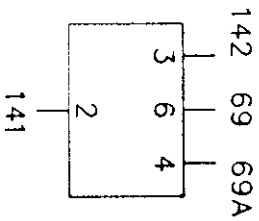
SHEET 12
[TU150U]



24V POWER SUPPLY AND
CONTROL TRANSFORMER
MOUNTED ON BACKPLATE

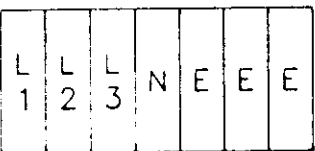


300 VA
CONTROL
TRANS.



THERMAL
CUT-OUT

MAINS TERMINALS



MAINS TERMINALS
AND THERMAL TRIP
ON BOTTOM OF CABINET

IF IN DOUBT ASK

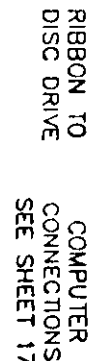
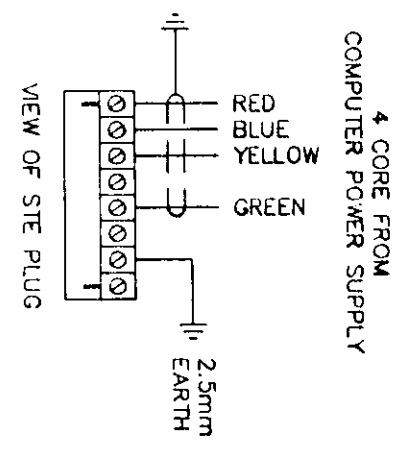
DRN BY A McHENRY

DATE 5-4-95

SR-13A

TU150 U
POWER SUPPLY
AND TRANSFORMER
WIRING

SHEET 13
[TU150U]



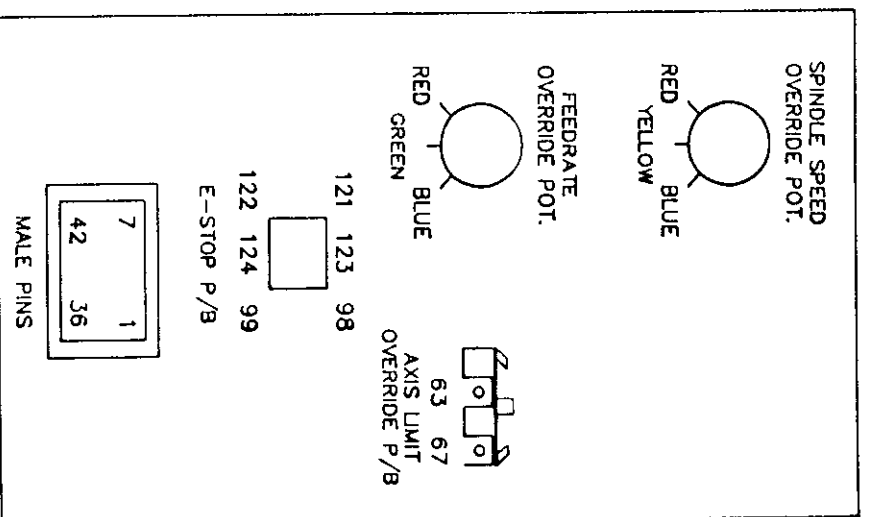
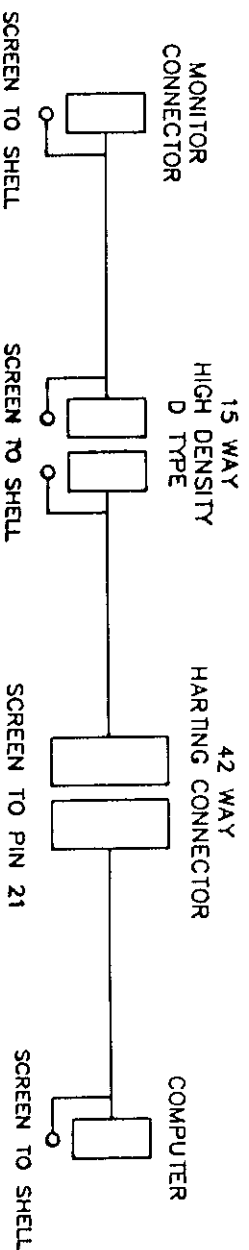
* 8 CORE SCREEN 4 CORE AND 2 CORES
TO PUSHBUTTONS TO MAIN PANEL

PIN	COLOUR	WIRE	
1	BROWN	7	
2	BLUE	N	
3	EARTH	E	
4	RED	(2)	
5	BLUE	(3)	
6	YELLOW	(4)	
7	BLACK	(6)	
8	BROWN	(20)	
9	SCREEN	(7)	
10	BLACK	(1)	
11	BROWN	(2)	
12	RED	(3)	
13	ORANGE	(5)	
14	YELLOW	(6)	
15	GREEN	(7)	
16	BLUE	(8)	
17	VIOLET	(10)	
18	GREY	(11)	
19	WHITE	(13)	
20	PINK	(14)	
21	SCREEN		

SCREEN TO SHELL

PIN	COLOUR	WIRE	
22	BLACK*	RED	121
23	BROWN*	BLUE	122
24	RED*	RED	123
25	YELLOW*	BLUE	124
26	GREEN*	RED	38
27	BLUE*	BLUE	99
28	VIOLET*	YELLOW	63
29	WHITE*	GREEN	67
30	RED		136
31	BLUE		137
32	YELLOW		134
33	GREEN		135

⊘ 4mm EARTH
PINS 34 - 42
ARE NOT USED



IF IN DOUBT ASK

DRN BY A McHENRY

DATE 7-4-95

SR-16A

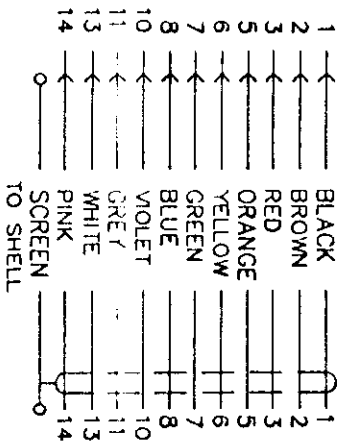
TU150 U
OPERATORS PANEL
DIAGRAM

SHEET 16

[TU150U]

MONITOR
HIGH DENSITY
15 WAY D TYPE
FEMALE PINS

COMPUTER
HIGH DENSITY
15 WAY D TYPE
MALE PINS



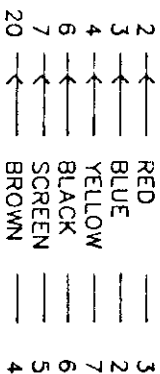
12 CORE SCREEN

< 42 WAY HARTING
CONNECTOR TO
MONITOR HOUSING
SEE SHEET 16

COM 1

KEYPAD
25 WAY D TYPE
MALE PINS

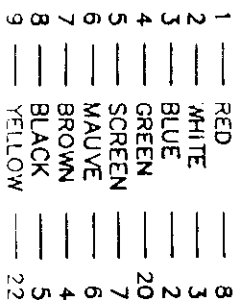
COMPUTER
9 WAY D TYPE
FEMALE PINS



8 CORE SCREEN

COMPUTER
9 WAY D TYPE
FEMALE PINS

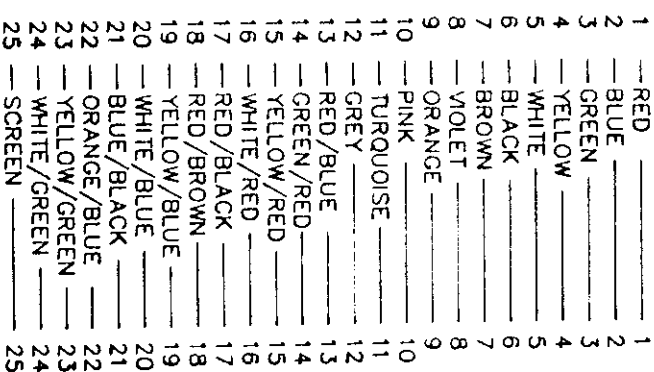
CABINET
25 WAY D TYPE
MALE PINS



8 CORE SCREEN

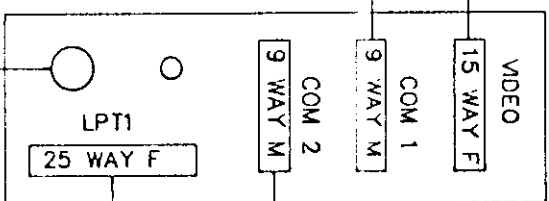
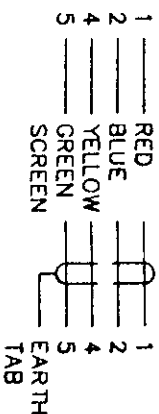
COMPUTER
25 WAY D TYPE
MALE PINS

CABINET
25 WAY D TYPE
FEMALE PINS



KEYBOARD CONNECTOR

COMPUTER END
5 WAY DIN PLUG



IF IN DOUBT ASK

DRN BY A MCHENRY

DATE 6-4-95

SR-17A

TU150 U
COMPUTER LEADS

SHEET 17

[TU150U]

VIEW FROM BACK
OF CASTING

X
LIMIT DATUM



INTERLOCK GUARD SWITCH
WITH SOLENOID
(REMOVE LINK 12 - 41)

GUARD
SWITCH
CONTACTS

89 BLACK	11	12	BROWN	90	GUARD
204 RED	21	22	YELLOW	205	SOLENOID
61 GREEN	33	34	BLUE	88	
					A1 A2

8 CORE TO
DOOR PANEL

99 60
R B
E L
D U
E

2 CORE TO
MAIN PANEL
TERMINALS

SADDLE CONNECTION BOX

1mm
SINGLES
FROM
SWITCHES

X
DATUM
X
LIMIT

YELLOW	70	YELLOW
GREEN	70A	GREEN
RED	63	RED
BLUE	65	BLUE

4 CORE
SCREEN
0.2mm
TO PANEL

VIEW FROM TOP
OF SWITCH

Z+	65	RED
LIMIT	66	BLUE
Z	71	YELLOW
DATUM	70A	GREEN

4 CORE
SCREEN
0.2mm

Z -
LIMIT

66	RED
67	BLUE

2 CORE
SCREEN
0.2mm

BROWN
AIR PRESSURE
SWITCH
BLUE
N/O WHEN NO AIR
CONNECTED

COOLANT PUMP

BLUE 48
BLACK 49
BROWN 50
EARTH E
1mm FLEX
(WIRE IN STAR)

WORKLIGHT

BLACK 31
BLACK 42
EARTH E
0.5mm SINGLES

LUBE PUMP

BLACK 31
BLACK 33
EARTH E
1mm FLEX
LUBE FLOAT SWITCH
RED 73
BLUE 60
2 CORE SCREEN

SPINDLE MOTOR (WIRE IN DELTA)
1mm BLACK 4 CORE SCREEN

SPINDLE MOTOR FAN (WIRE IN STAR)
1mm 4 CORE FLEX

SPINDLE MOTOR THERMAL
2 CORE SCREEN

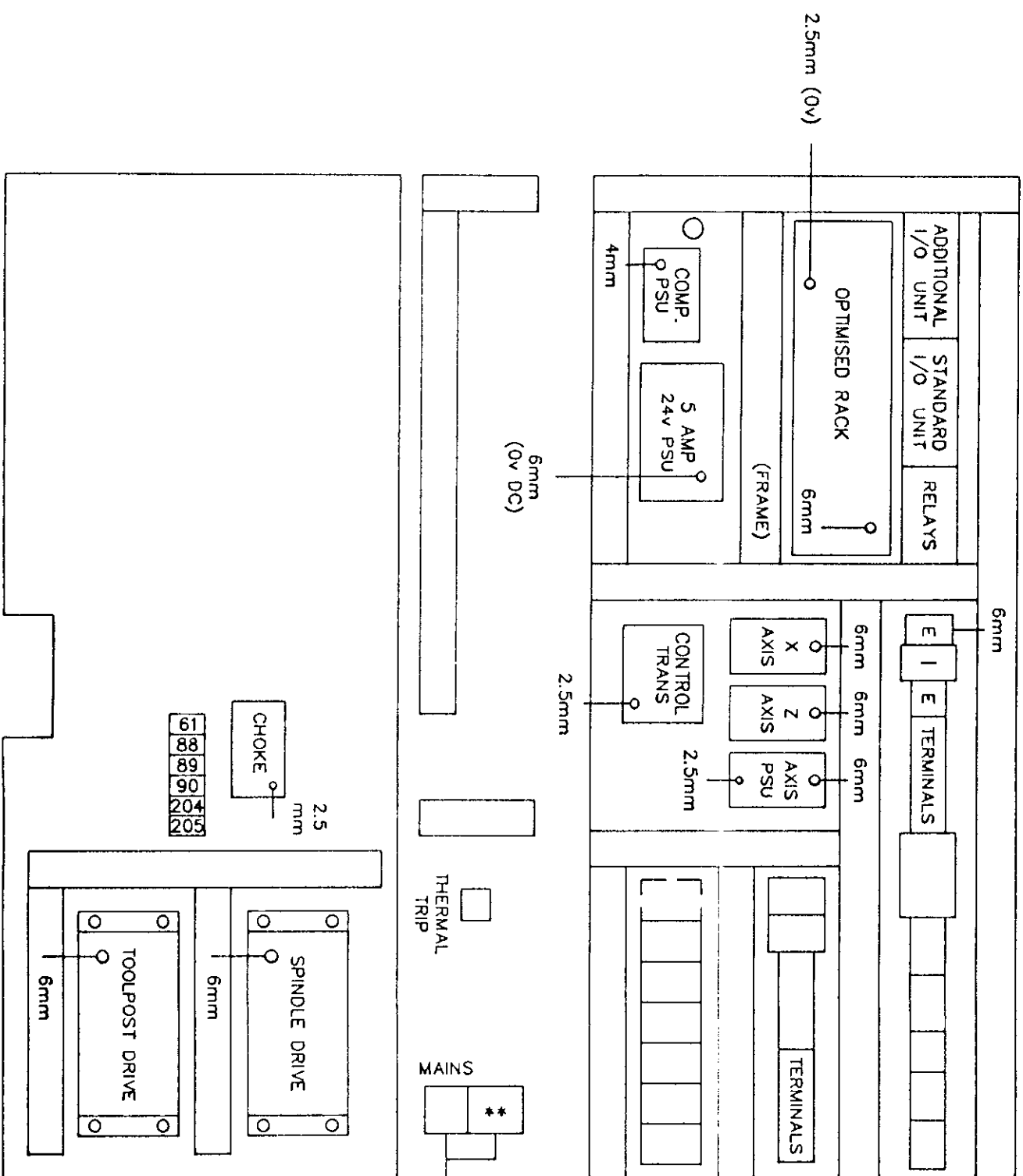
TU150 U SWITCH AND MOTOR WIRING	SHEET 18 [TU150U]
---------------------------------------	------------------------

IF IN DOUBT ASK

DRN BY A McHENRY

DATE 6-4-95

SR-18A



** MAIN EARTH POINT
INCOMING MAINS AND EARTH

IF IN DOUBT ASK

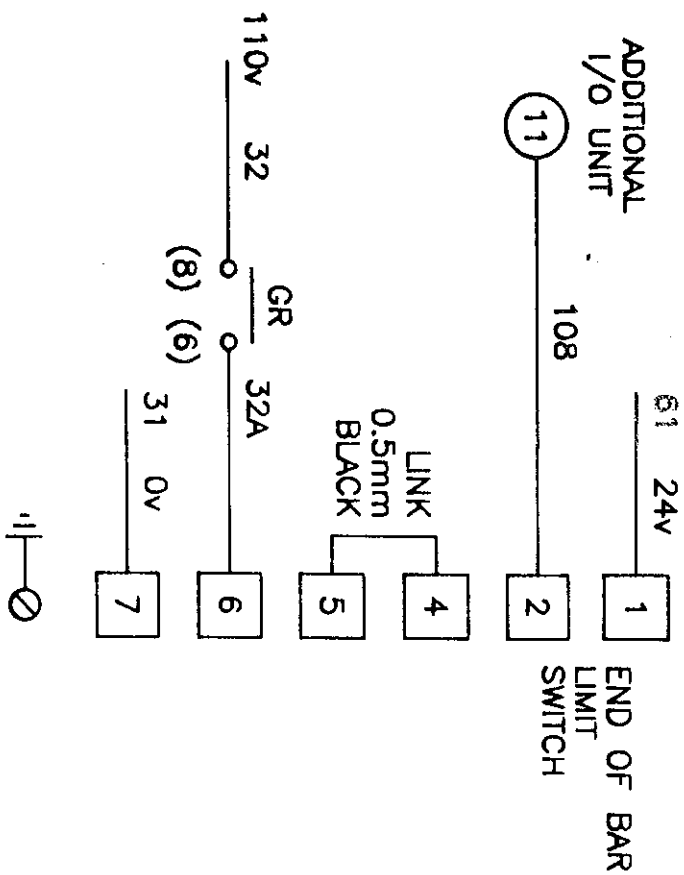
DRN BY A MCHENRY

DATE 20-4-95

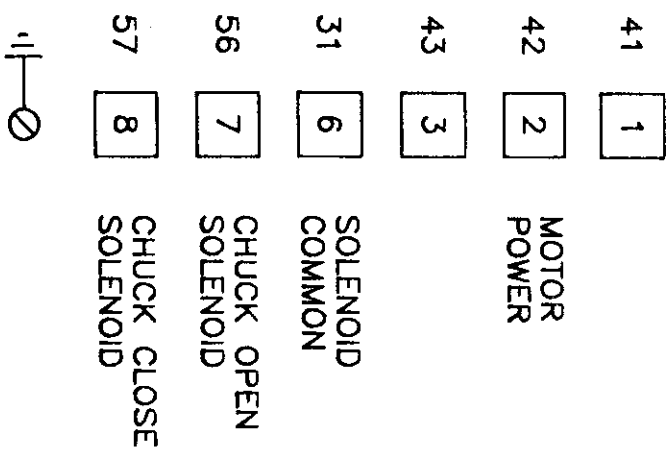
SR-19A

IF IN DOUBT ASK

10 WAY HARTING
FOR BARFEED UNIT



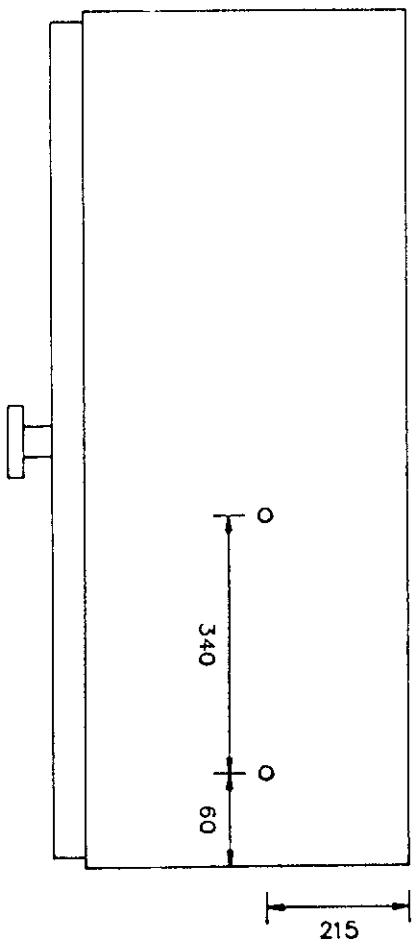
16 WAY HARTING
FOR HYDRAULIC POWER PACK



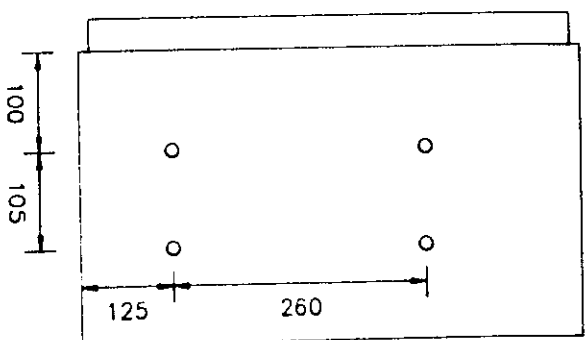
SHEET 20

[TU150U]

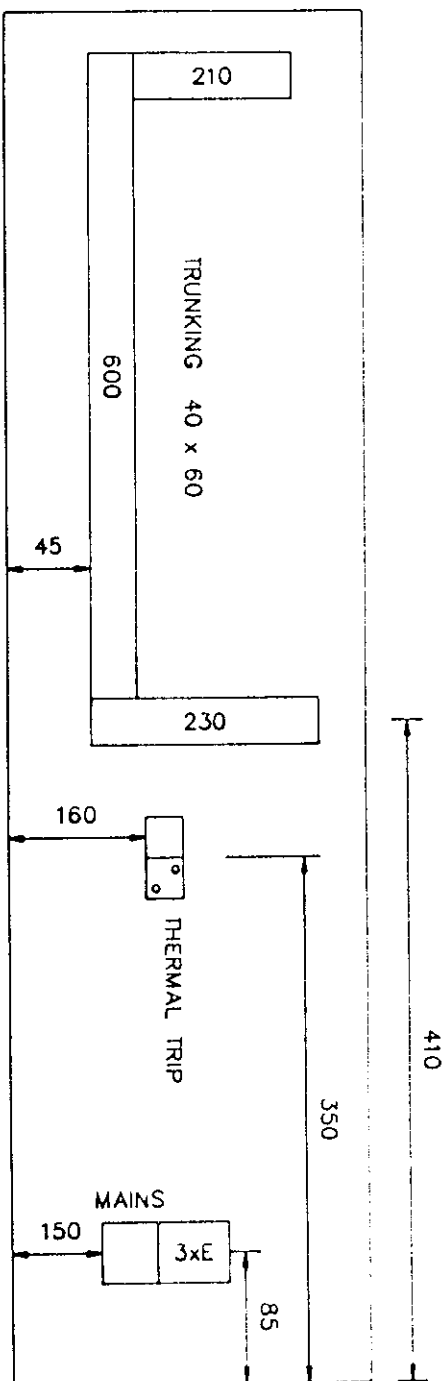
RESISTOR FIXING HOLES
ON TOP OF CABINET



MAINS FILTER FIXING HOLES
ON RIGHT HAND SIDE
OF CABINET



COMPONENTS ON BOTTOM OF CABINET



IF IN DOUBT ASK

DRN BY A MCHENRY

DATE 26-4-95

SR-21A

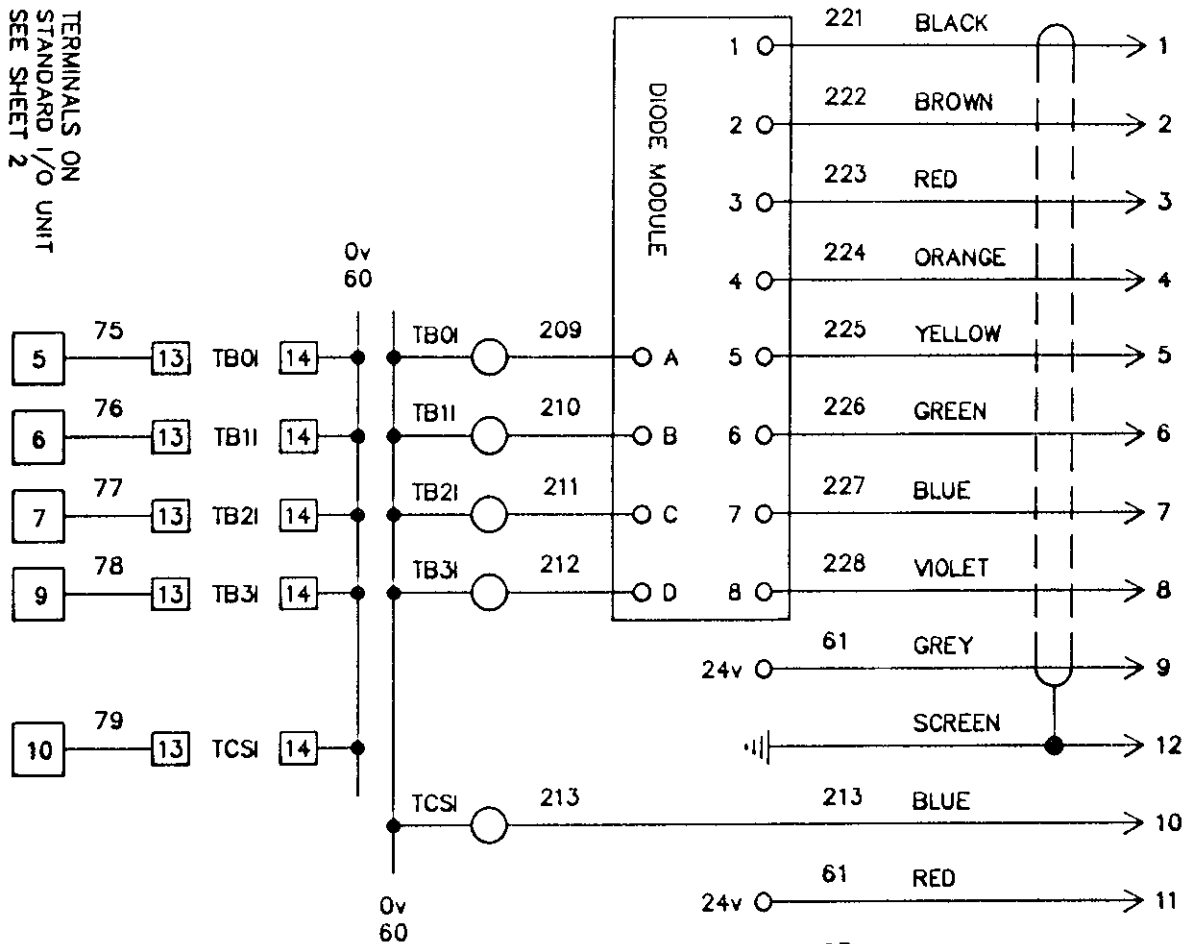
TU150 U
RESISTOR, FILTER
AND TERMINAL
POSITION

SHEET 21

[TU150U]

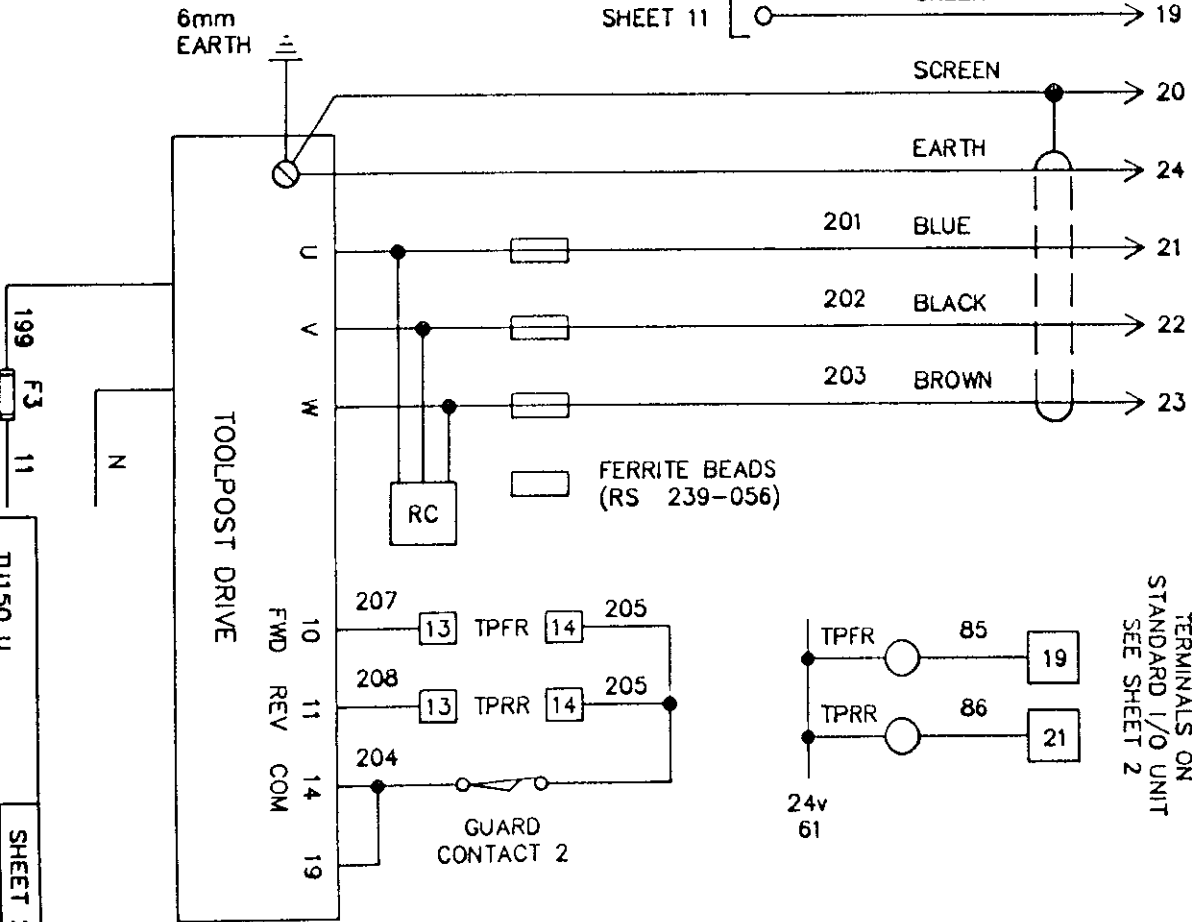
SIGNALS FROM TURRET SEE SHEET 10

TERMINALS ON
STANDARD I/O UNIT
SEE SHEET 2



E-STOP
CIRCUIT
SEE
SHEET 11

6mm
EARTH



TERMINALS ON
STANDARD I/O UNIT
SEE SHEET 2

IF IN DOUBT ASK

DRN BY A McHENRY

DATE 15-1-96

SR-22

TU150 U
DM8 TURRET
CONTROL DETAILS

SHEET 22

[TU150U]

IF IN DOUBT ASK

DRN BY A MCHENRY DATE 11-1-96

SR-10B

TU150 U
DENFORD
TURRET
WIRING DETAILS

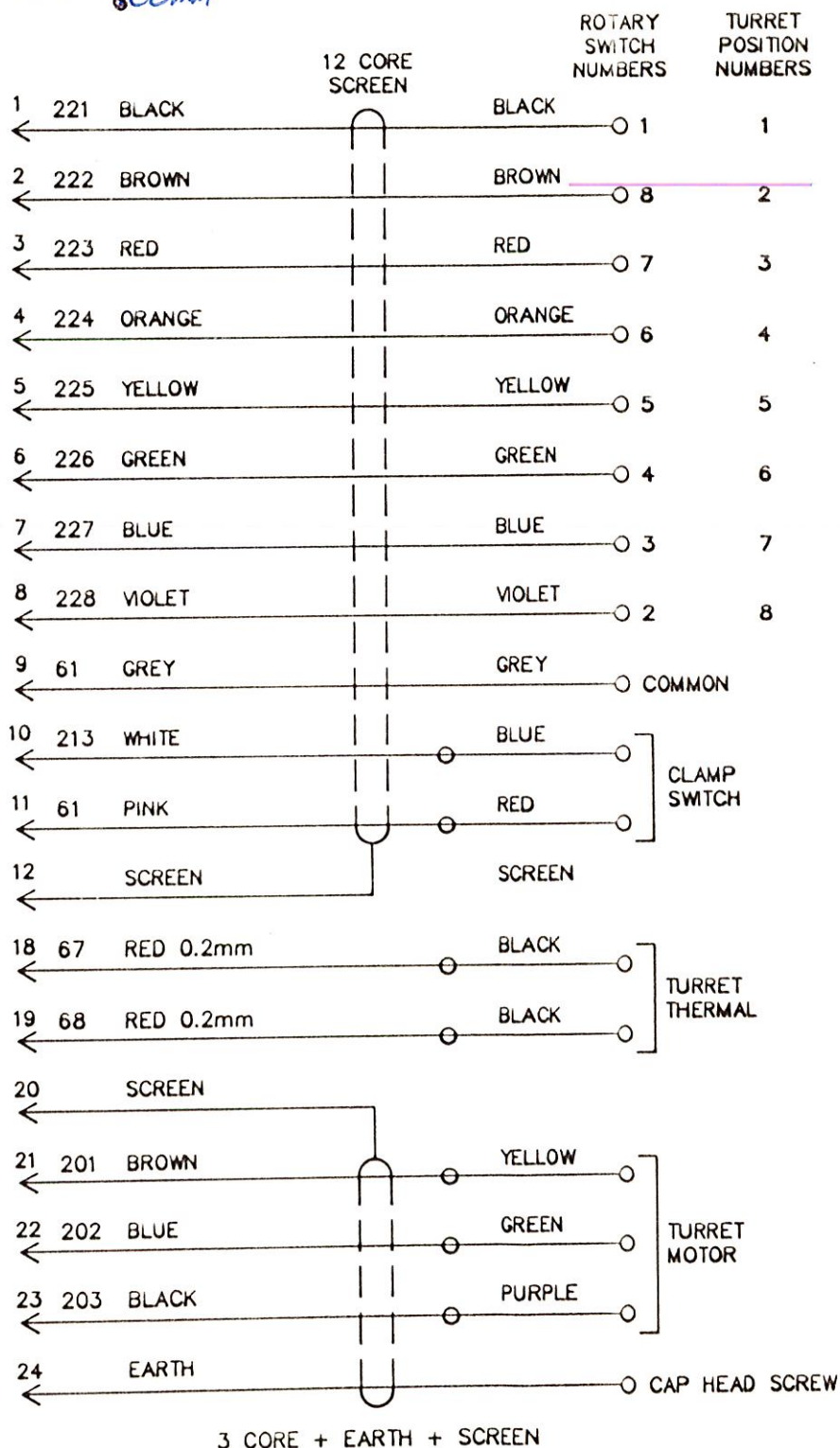
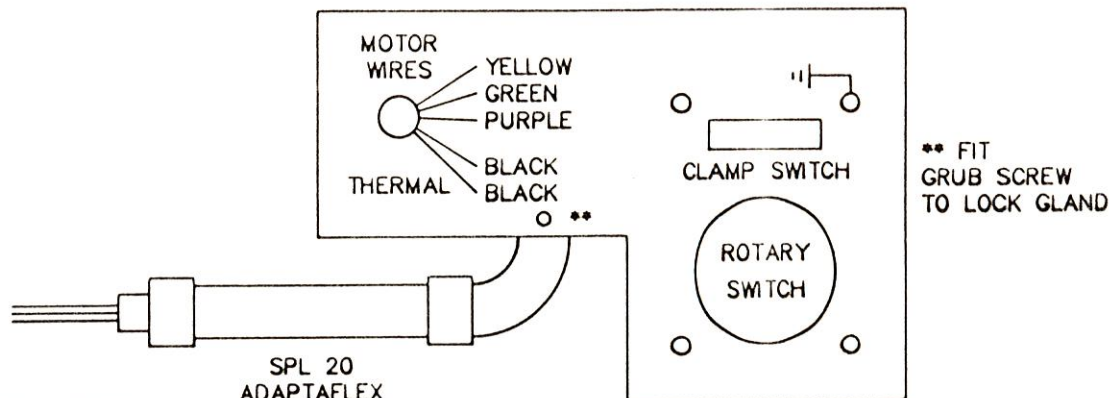
SHEET 10
[TU150U]

2 GLANDS
BI 00407 N
1 ELBOW
BI 00407 F

<
24 WAY QM
CONNECTOR
SEE SHEET 22
FOR TURRET
CONTROL
DETAILS

CABLE 160mm LONG
WITH MALE SIZE 16 PINS

SPL 20
ADAPTAFLEX
~~610mm~~ LONG
800mm



3 PHASE
SUPPRESSOR
(BI 004300)

TOOLPOST DRIVE

LINK (0.5mm BLUE)



FERRITE BEADS
(RS 239-056)

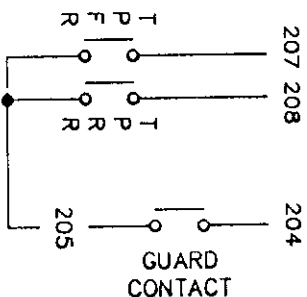
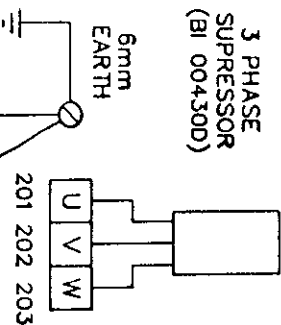
QM 3
24 WAY CONNECTOR
FOR TOOLPOST
SEE SHEET 10

TOOLPOST
MOTOR

TOOLPOST
THERMAL

E-STOP LINE
SEE SHEET 11

68 RED
69 BLUE



MAIN PANEL
TO DOOR PANEL

0.5mm BLUE

61
88
89
90
91
92
98
204
205
207
208

2 CORE SCREEN

138
139

1.5mm BLACK

32
42

2.5mm EARTH

1.5mm BLACK
140 TERMINALS
141 TO BOTTOM OF BOX
142 BOTTOM OF BOX
TO DOOR PANEL

TU150 U
TOOLPOST DRIVE
DETAILS

SHEET 9
[TU150U]

IF IN DOUBT ASK

DRN BY A MCHENRY DATE 11-1-96

SR-09B

IF IN DOUBT ASK

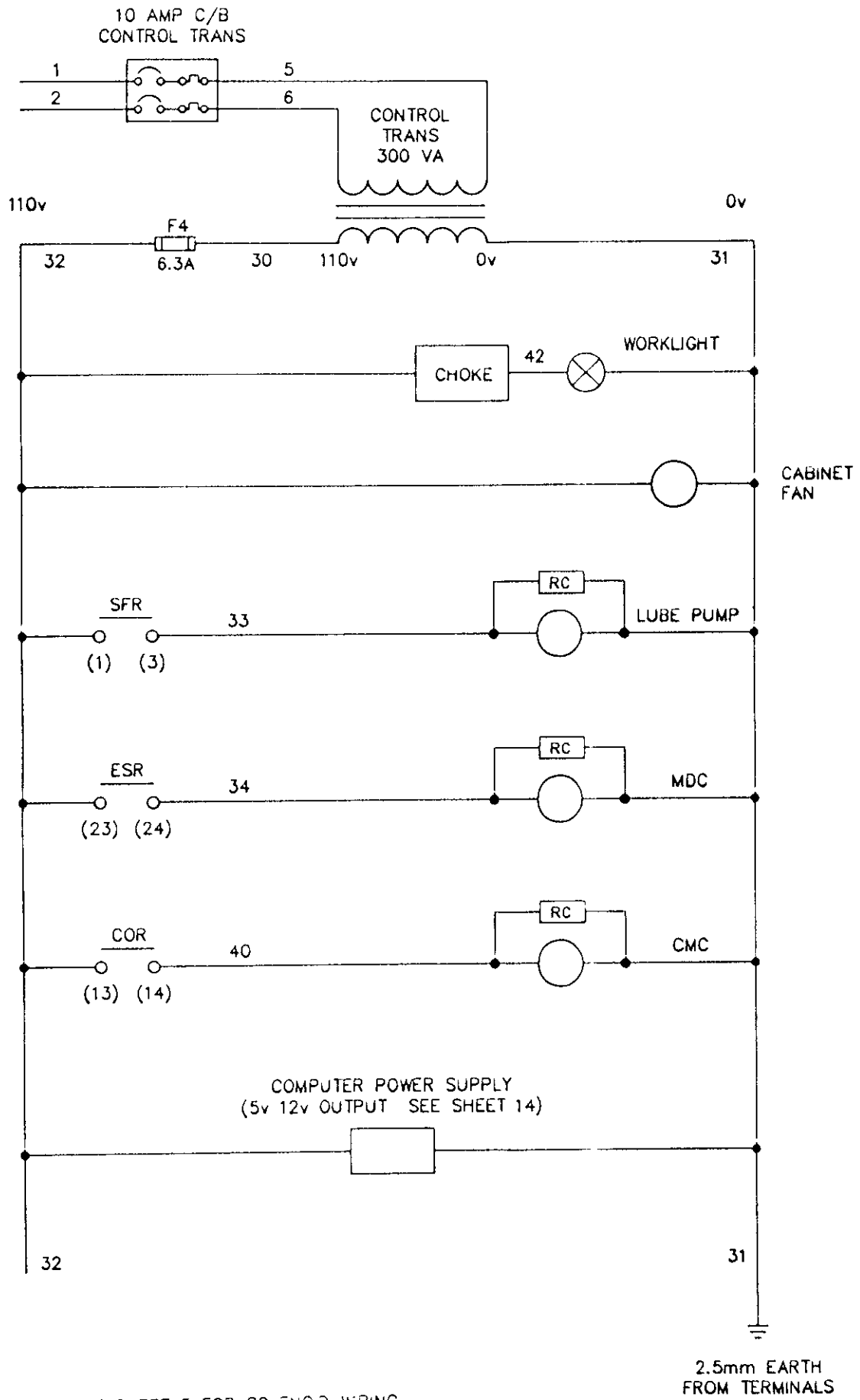
DRN BY A McHENRY

DATE 16-3-95

SR-04A

TU150 U
110V SCHEMATIC
TOE 80 TURRET
OPTIMISED RACK

SHEET 4
[TU150U]



SEE SHEET 5 FOR SOLENOID WIRING

110v

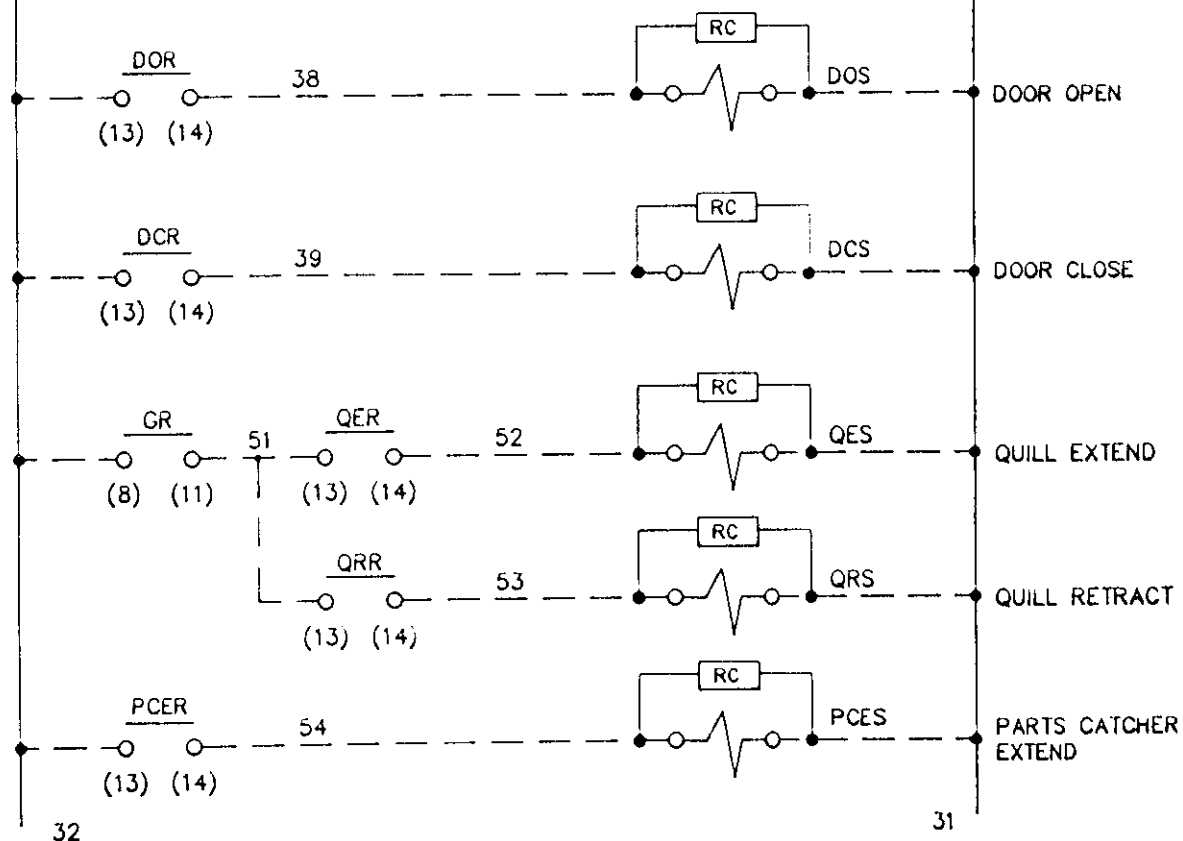
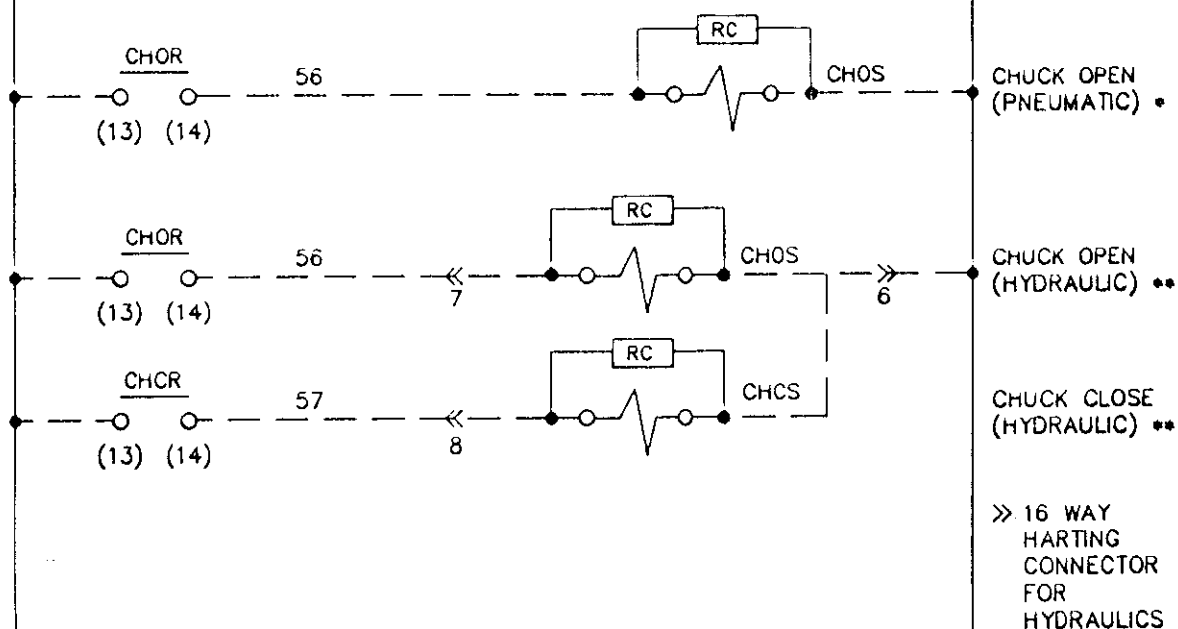
110v FROM CONTROL TRANSFORMER
SEE SHEETS 1 AND 4

0v

32

31

* IF CHUCK IS PNEUMATIC USE CHOR ONLY
 ** IF CHUCK IS HYDRAULIC USE CHOR AND CHCR



IF IN DOUBT ASK

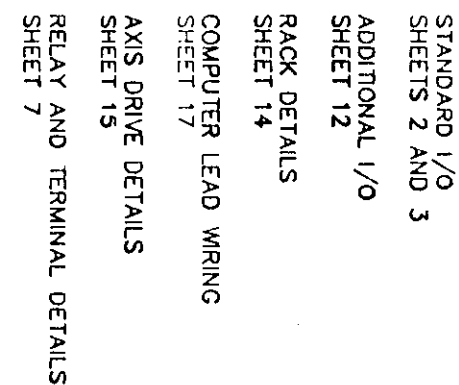
DRN BY A McHENRY

DATE 16-3-95

SR-05A

TU150 U
110v SCHEMATIC
SOLENOID WIRINGSHEET 5
[TU150U]

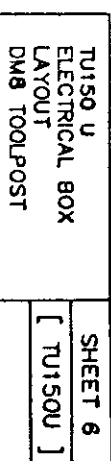
115



TRANSFORMER WIRING
SHEET 13

SPINDLE DRIVE DETAILS
SHEET 8

TOOLPOST DRIVE DETAILS
SHEET 9



SR-06E

