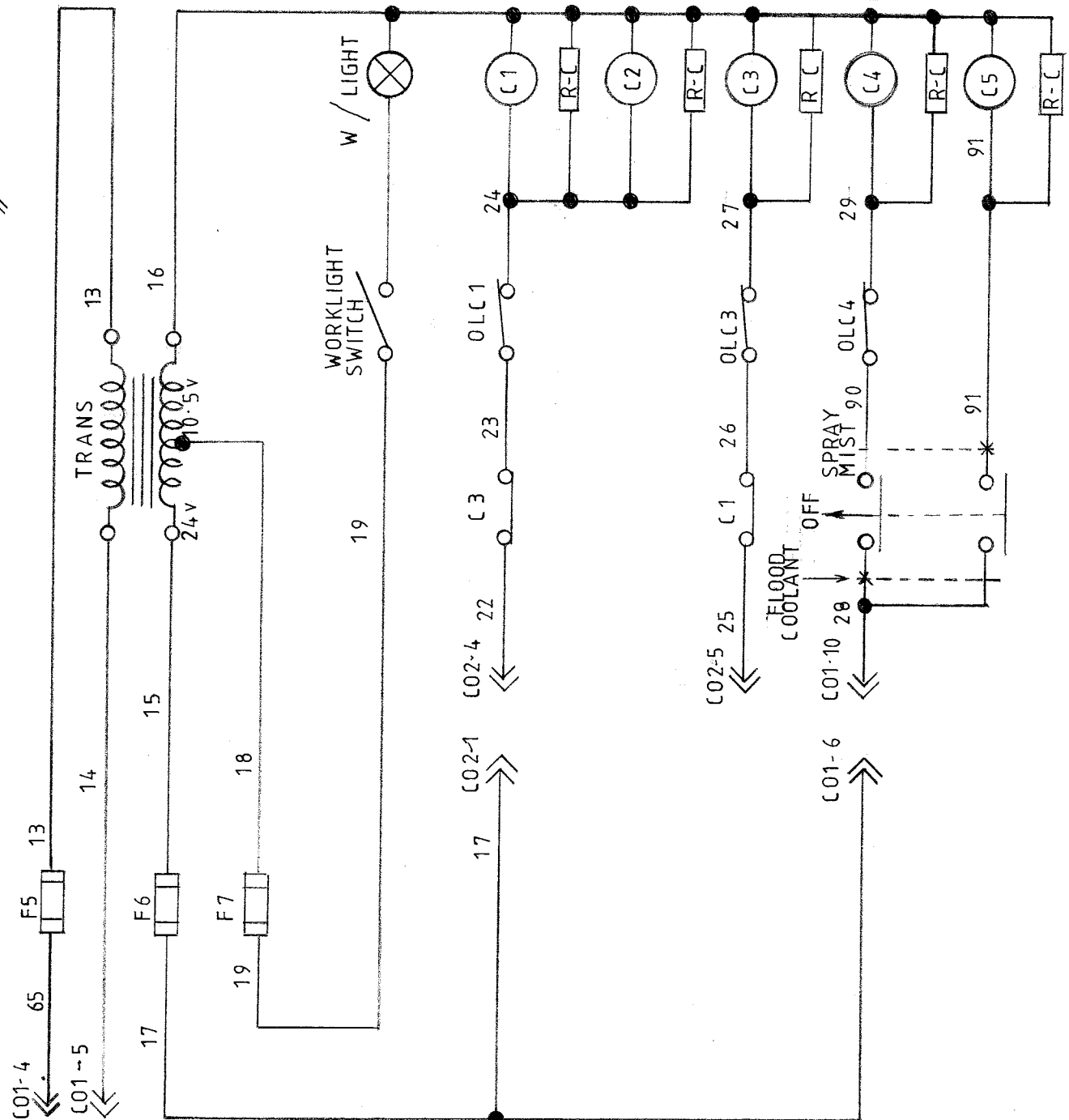
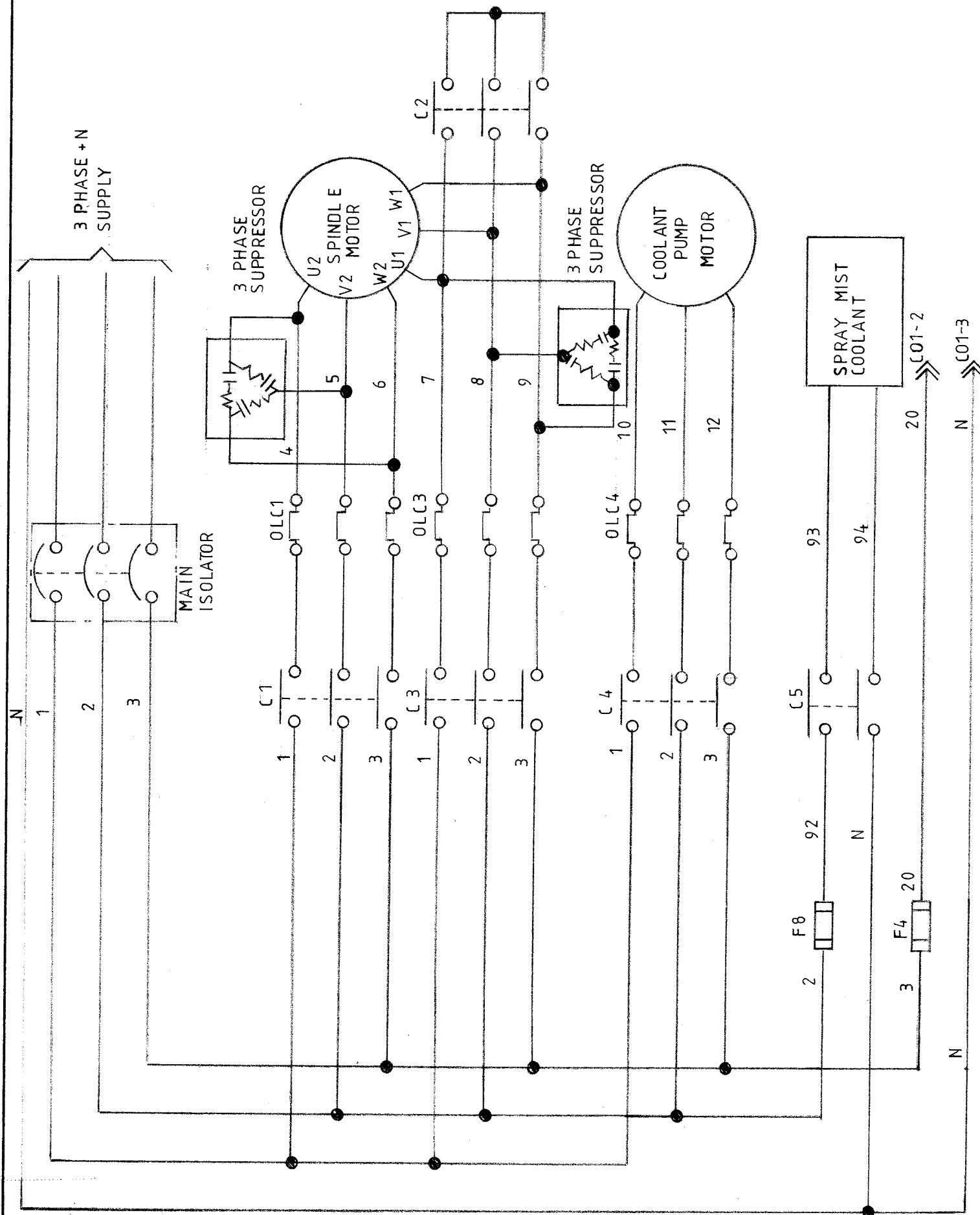


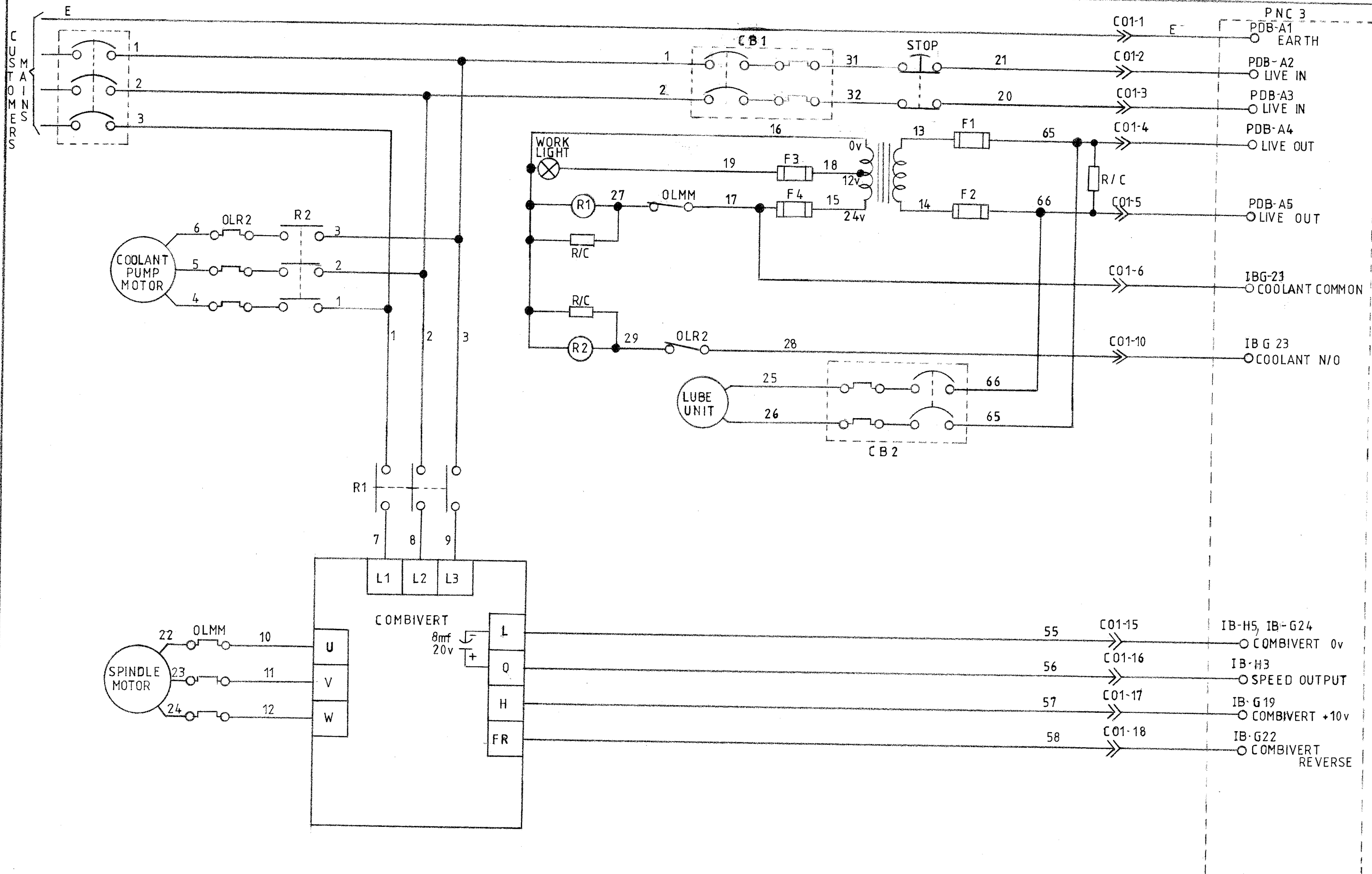
EASIMILL 3 (COMBIVERT 1PH)  
WIRING DIAGRAM SCHEM N°1

SHEET No.  
OF  
CONT. ON  
SHEET No.









MICROMASTER (MEXICO)  
WIRING DIAGRAM SCHEMATIC N°1

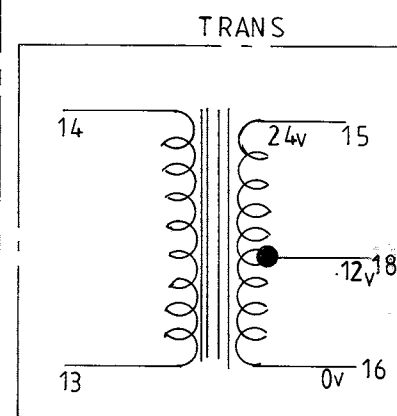
# JAGUAR CUB CONNECTIONS

N	E	L
8		9

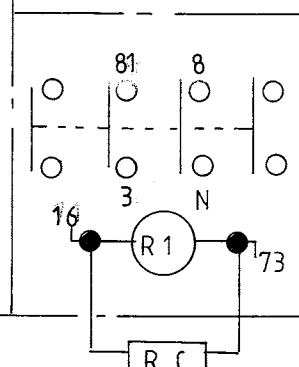
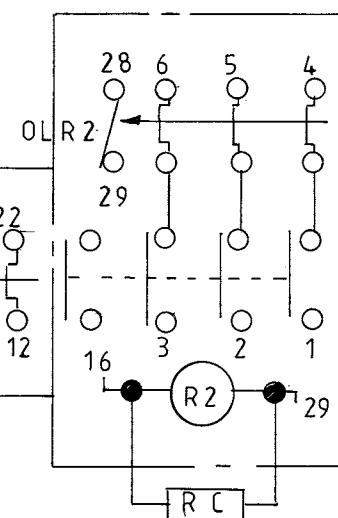
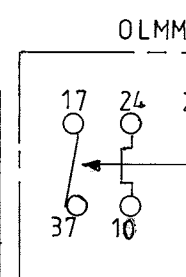
1	2	3	6	7	10	12	13	14
86	84	85	82	83	80			

U	V	W
10	11	12

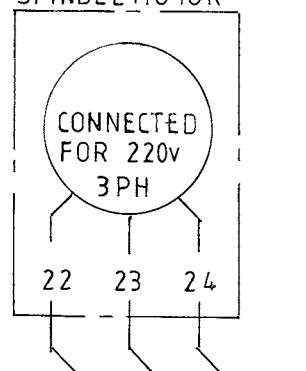
74	73		20	37	28	26	24	23	22	21	19	17	16	14	14	12	11	10	9	8	6	5	4	3	2	1	N	N
----	----	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	---



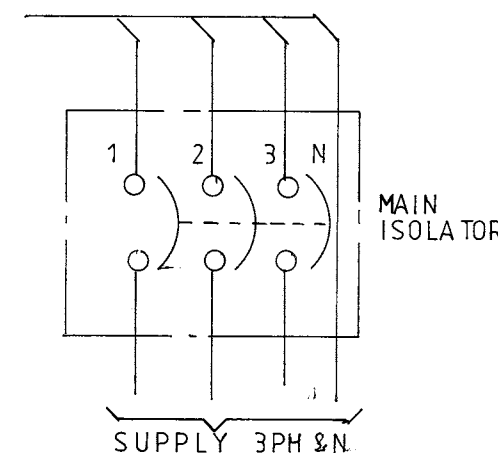
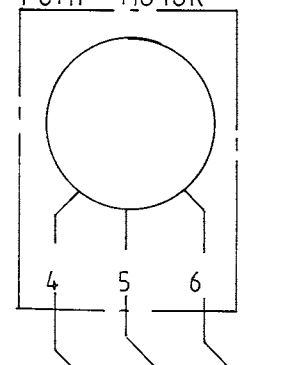
9	74	26	17	19	13	21
F7	F6	F5	F4	F3	F2	F1
13A	2A	2A	2A	2A	2A	5A
81	20	20	15	18	20	1



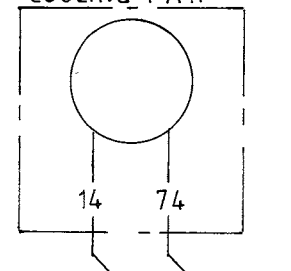
SPINDLE MOTOR



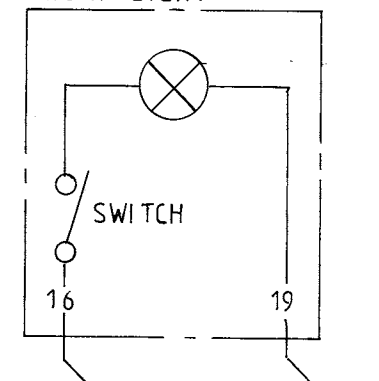
COOLANT PUMP MOTOR

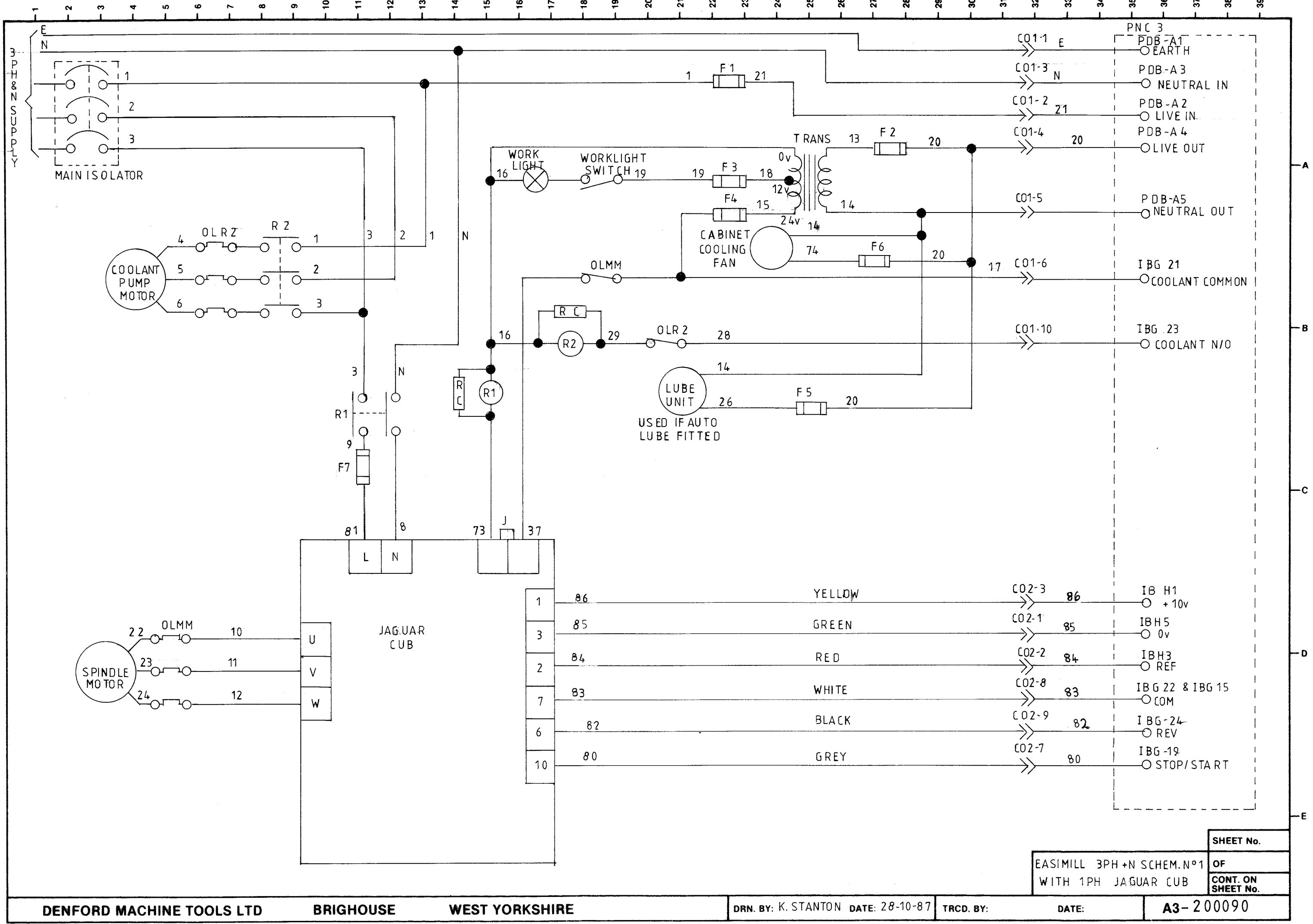


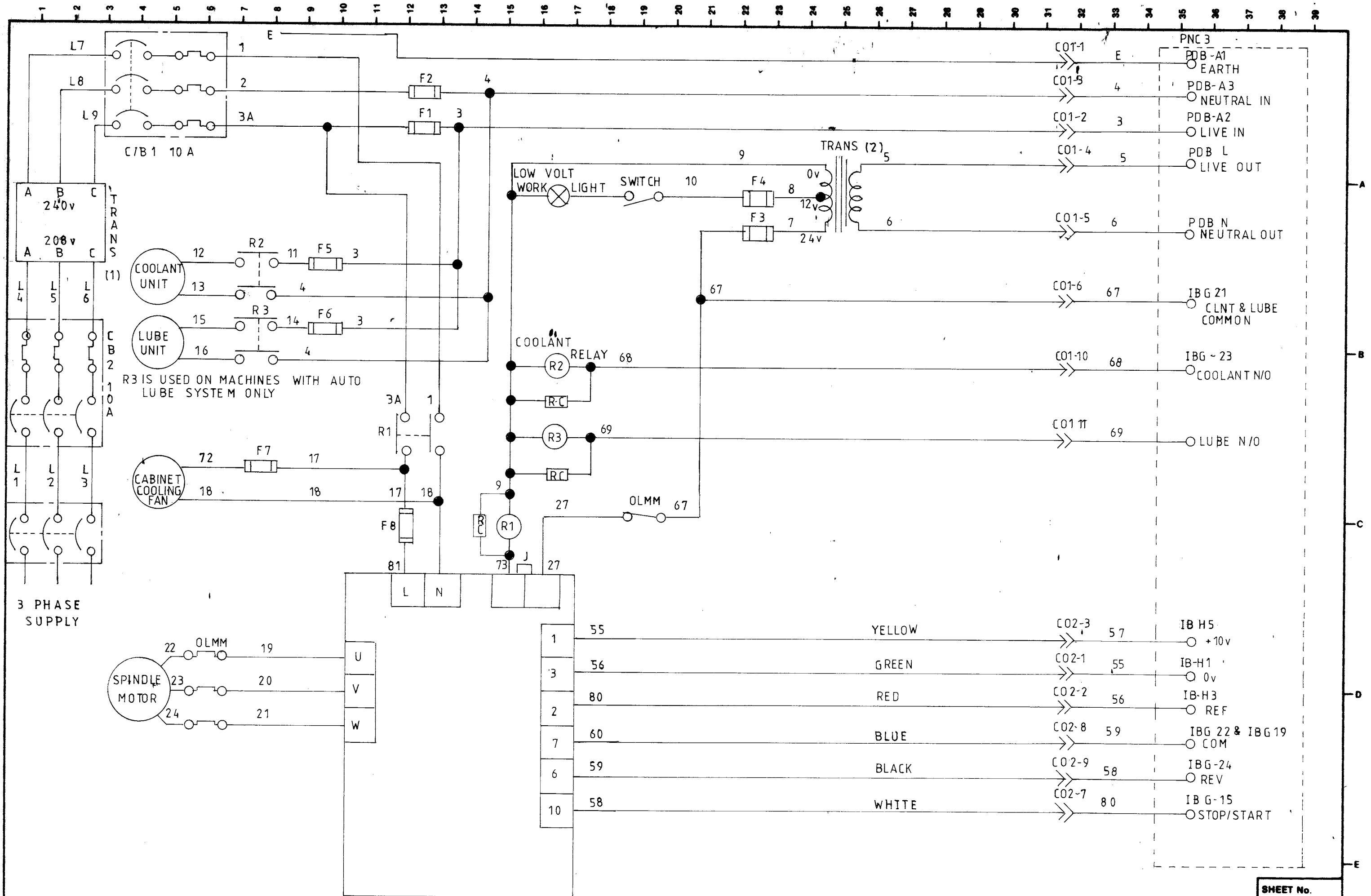
CABINET COOLING FAN

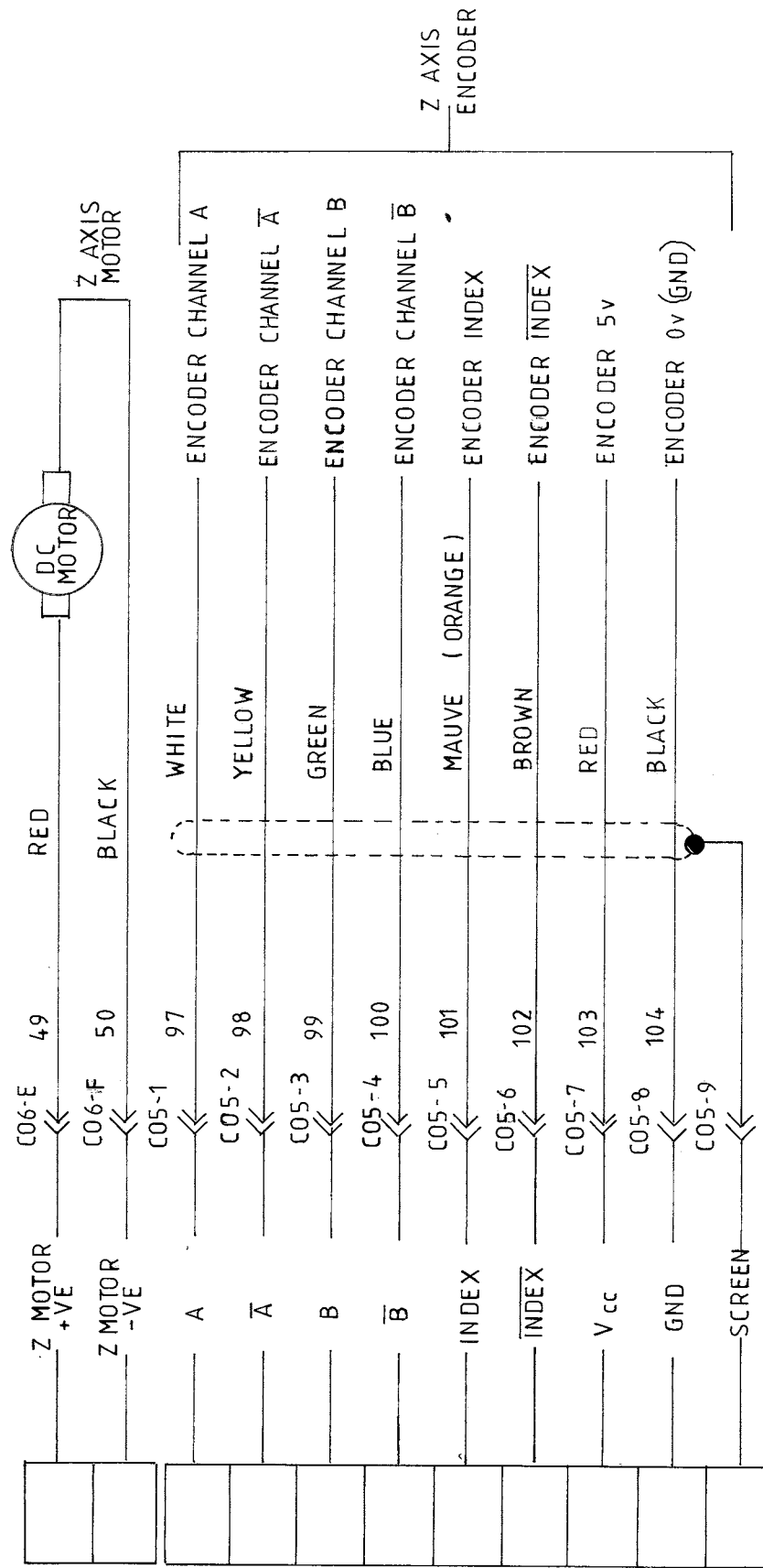
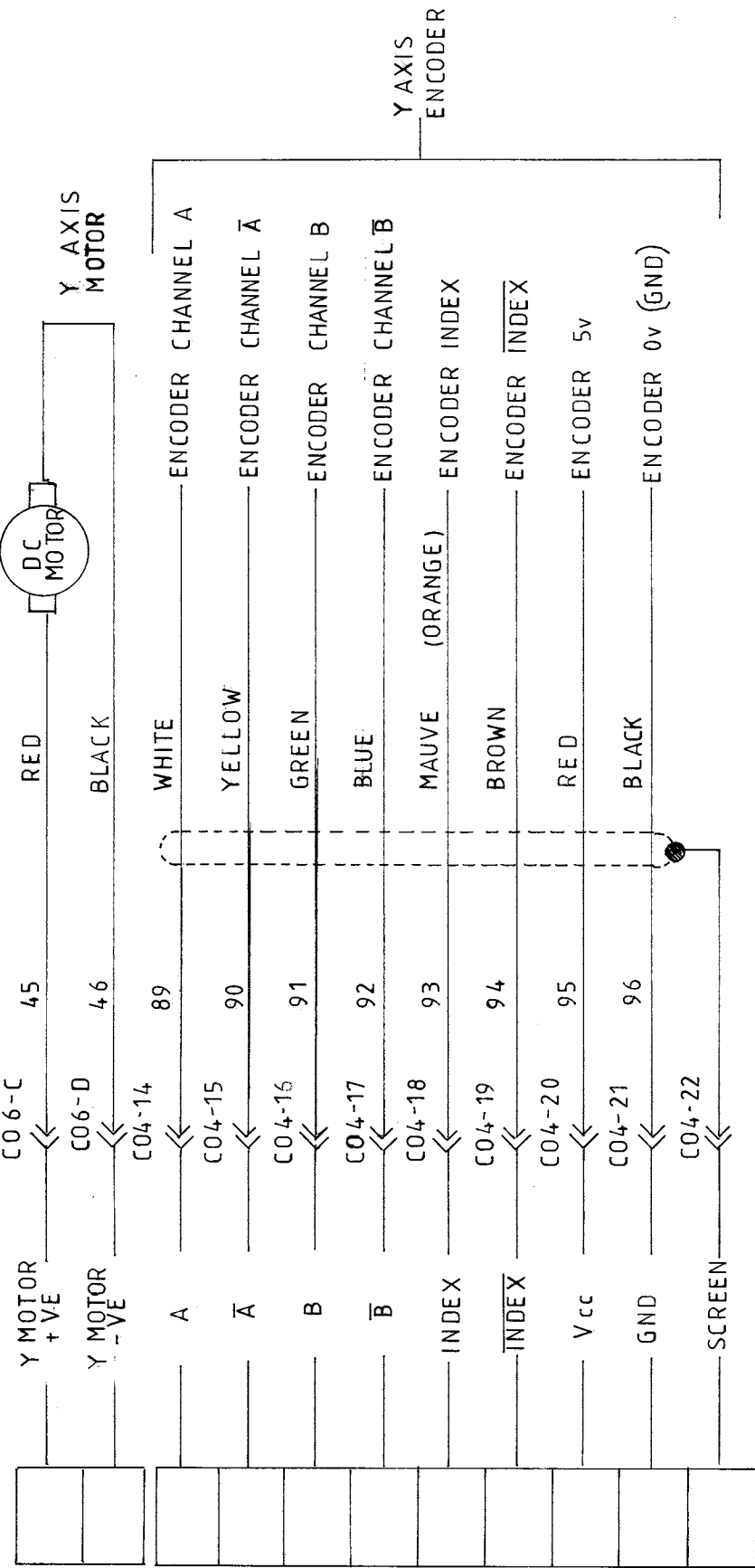


WORK LIGHT





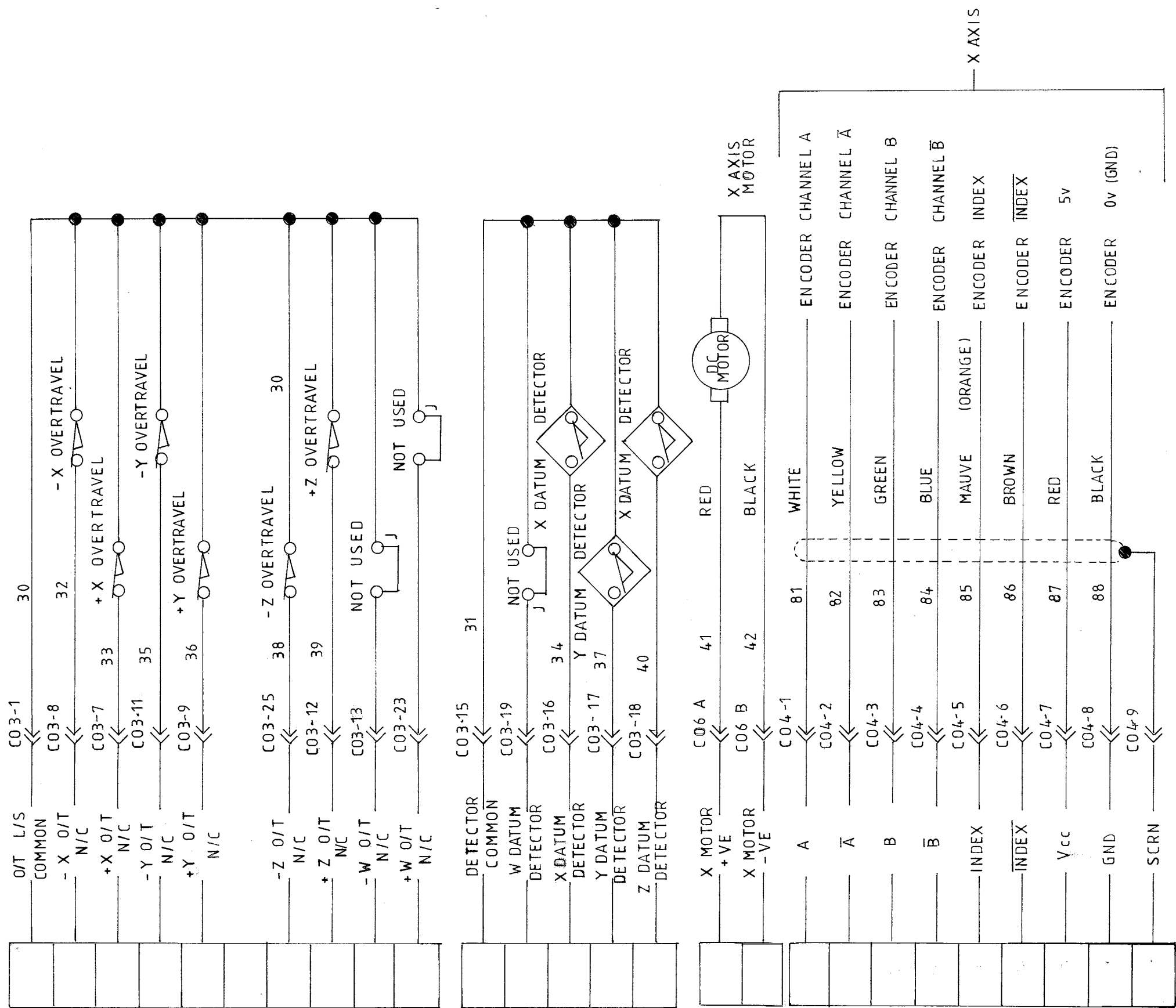




PLUGS ON THE BACK OF THE PNC 4 CONTROL

C04 = XY ENCODERS SOCKET 25WAY D TYPE  
C05 = Z/ENCODERS SOCKET 25WAY D TYPE  
C06 = DC MOTORS SOCKET 12WAY CIRCULAR QM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

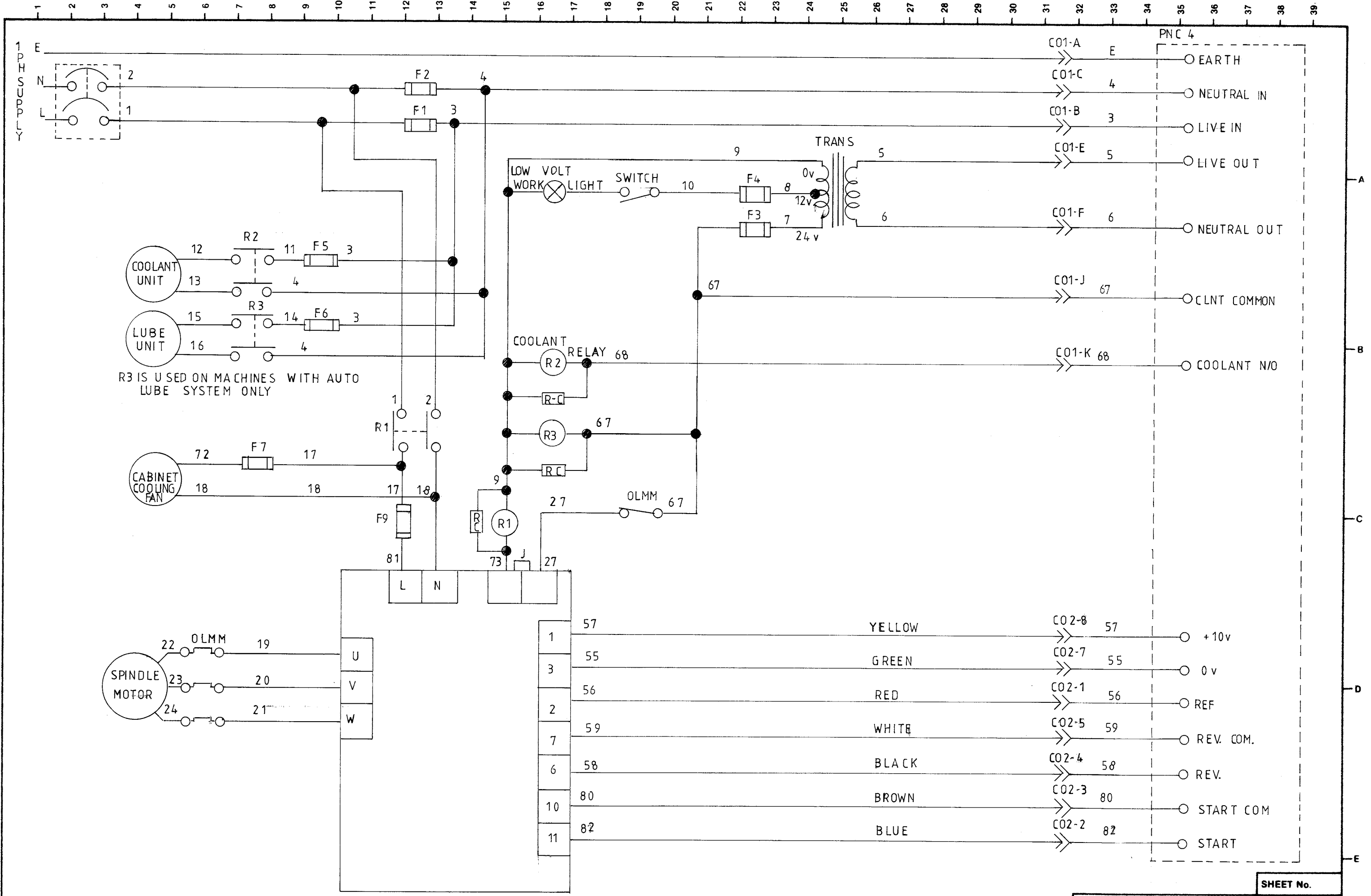


PLUGS ON THE BACK OF THE PNC 4 CONTROL

C03 DATUM & O/T SOCKET 25 WAY "D" TYPE

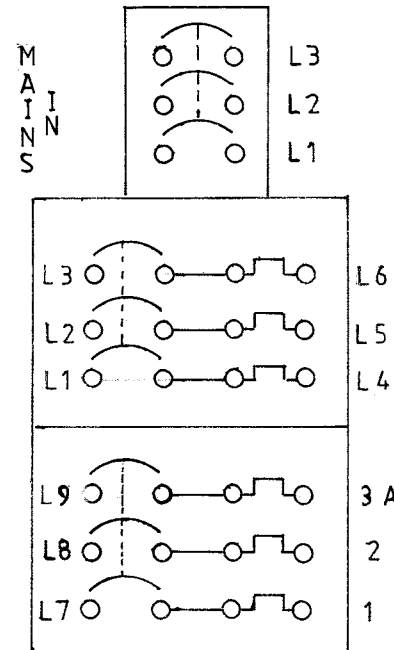
C04 X/Y ENCODERS SOCKET 25 WAY D TYPE

C06 D.C. MOTORS SOCKET 12 WAY CIRCULAR QM



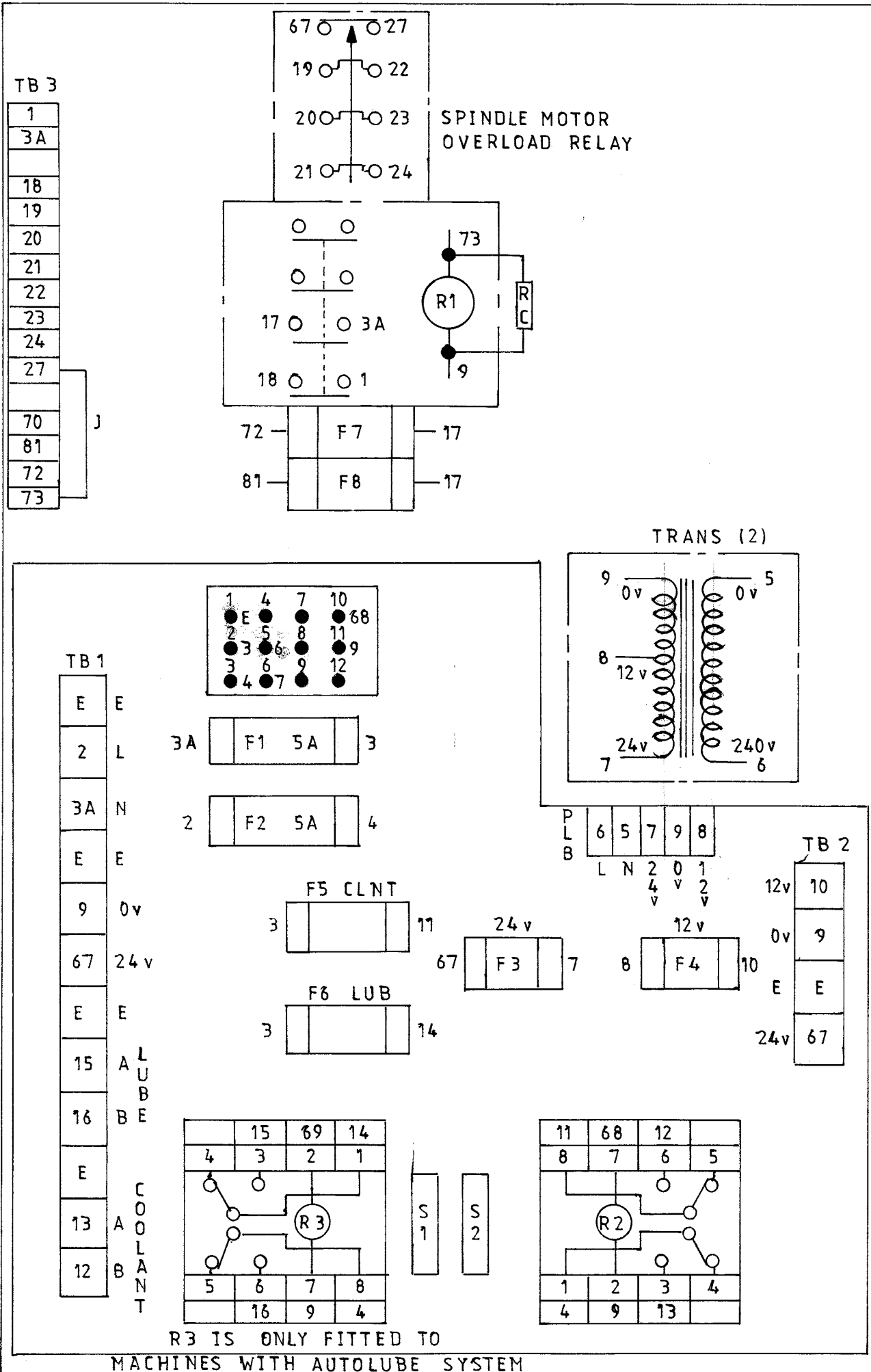
E	E
	YN
L4	208 A
L7	240
L5	208 B
L8	240
L6	208 C
L9	240

TRANS (1)

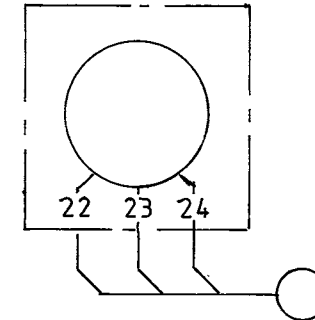


JAGUAR  
CUB  
CONNECTIONS

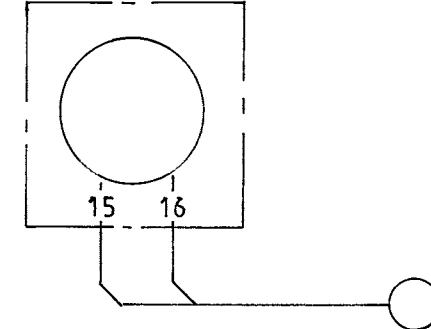
U	19
V	20
W	21
10	58
7	60
6	59
3	56
2	80
1	55
L	81
E	E
N	18



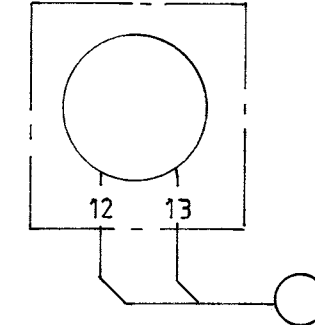
SPINDLE MOTOR



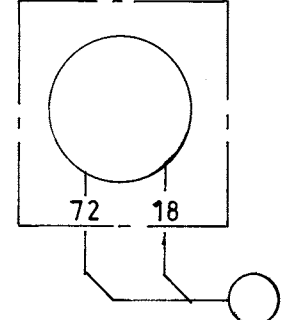
AUTO LUBE UNIT (IF FITTED)



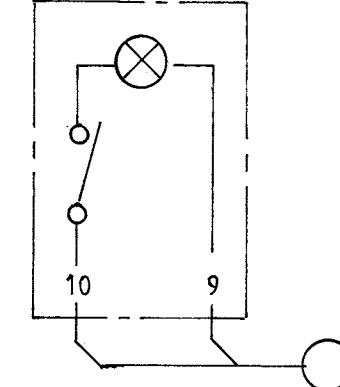
COOLANT UNIT



CABINET FAN



WORKLIGHT



EASIMILL 208 v  
PANEL JAGUAR  
CUB

SHEET No.  
OF  
CONT. ON  
SHEET No.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

JAGUAR CUB CONNECTIONS

U	19
V	20
W	21

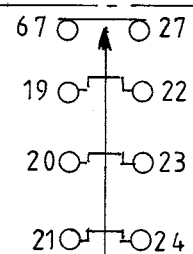
14	
13	
12	
10	80
9	
8	
7	59
6	58
4	
3	55
2	56
1	60

L	81
E	E
N	18

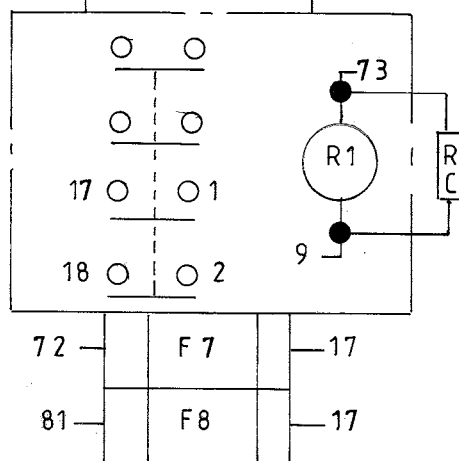
TB3

1
2
18
19
20
21
22
23
24
27
70
81
72
73

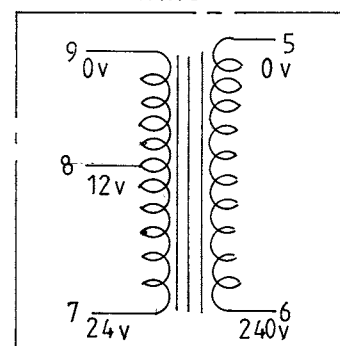
J



SPINDLE MOTOR OVERLOAD RELAY



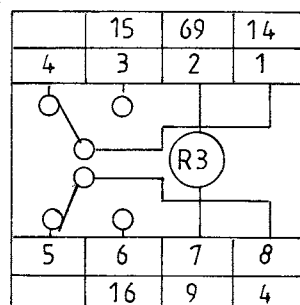
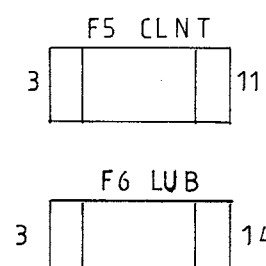
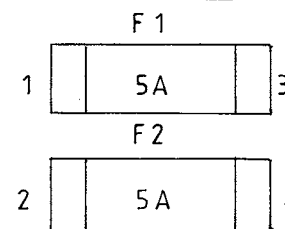
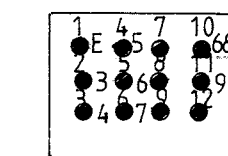
TRANS



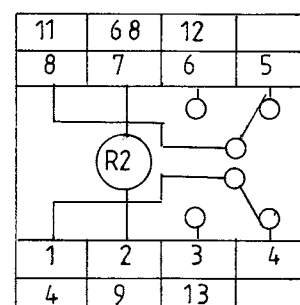
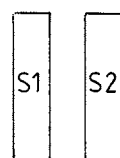
TB1

E	E
1	L
2	N
E	E
9	0v
67	24v
E	E
15	A
16	B
E	E
13	A
12	B

LUBE COOLANT



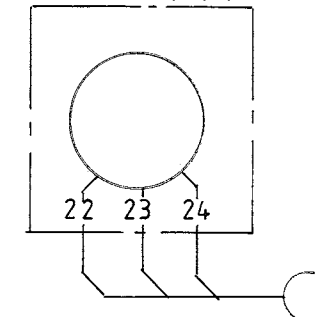
R3 IS ONLY FITTED TO MACHINES WITH AUTO LUBE SYSTEM



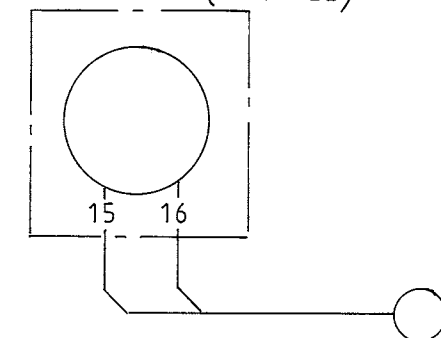
TB2

12v	10
0v	9
E	E
24v	67

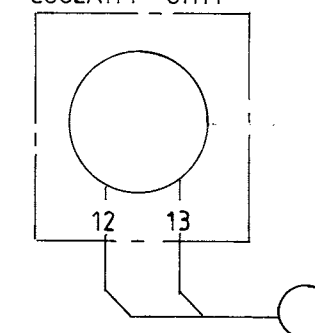
SPINDLE MOTOR



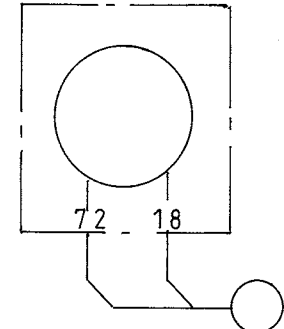
AUTO LUBE UNIT (IF FITTED)



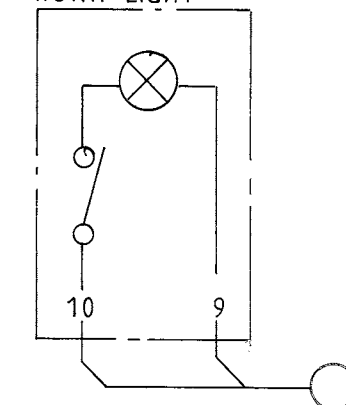
COOLANT UNIT



CABINET COOLING FAN

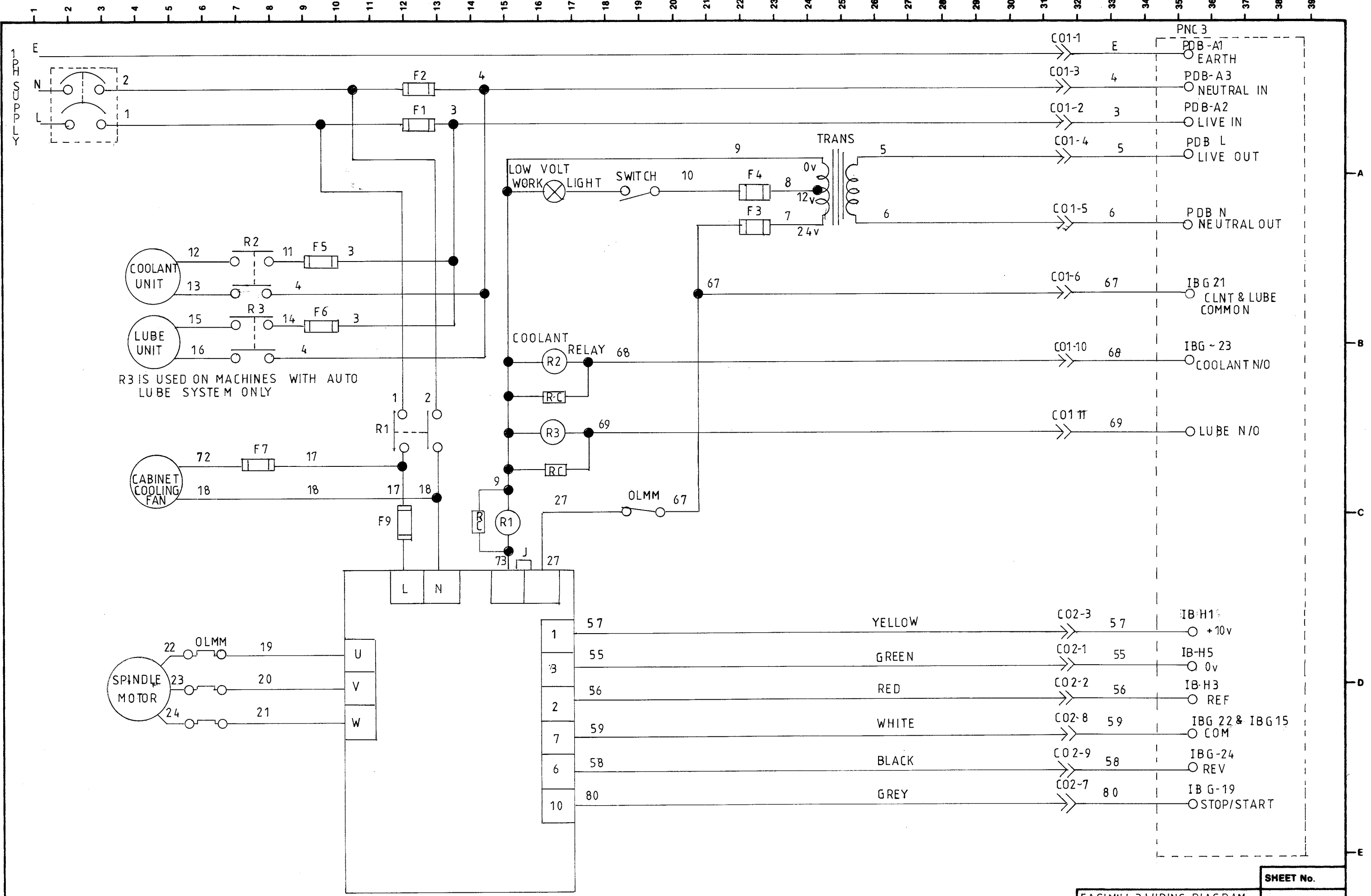


LOW VOLTAGE WORK LIGHT



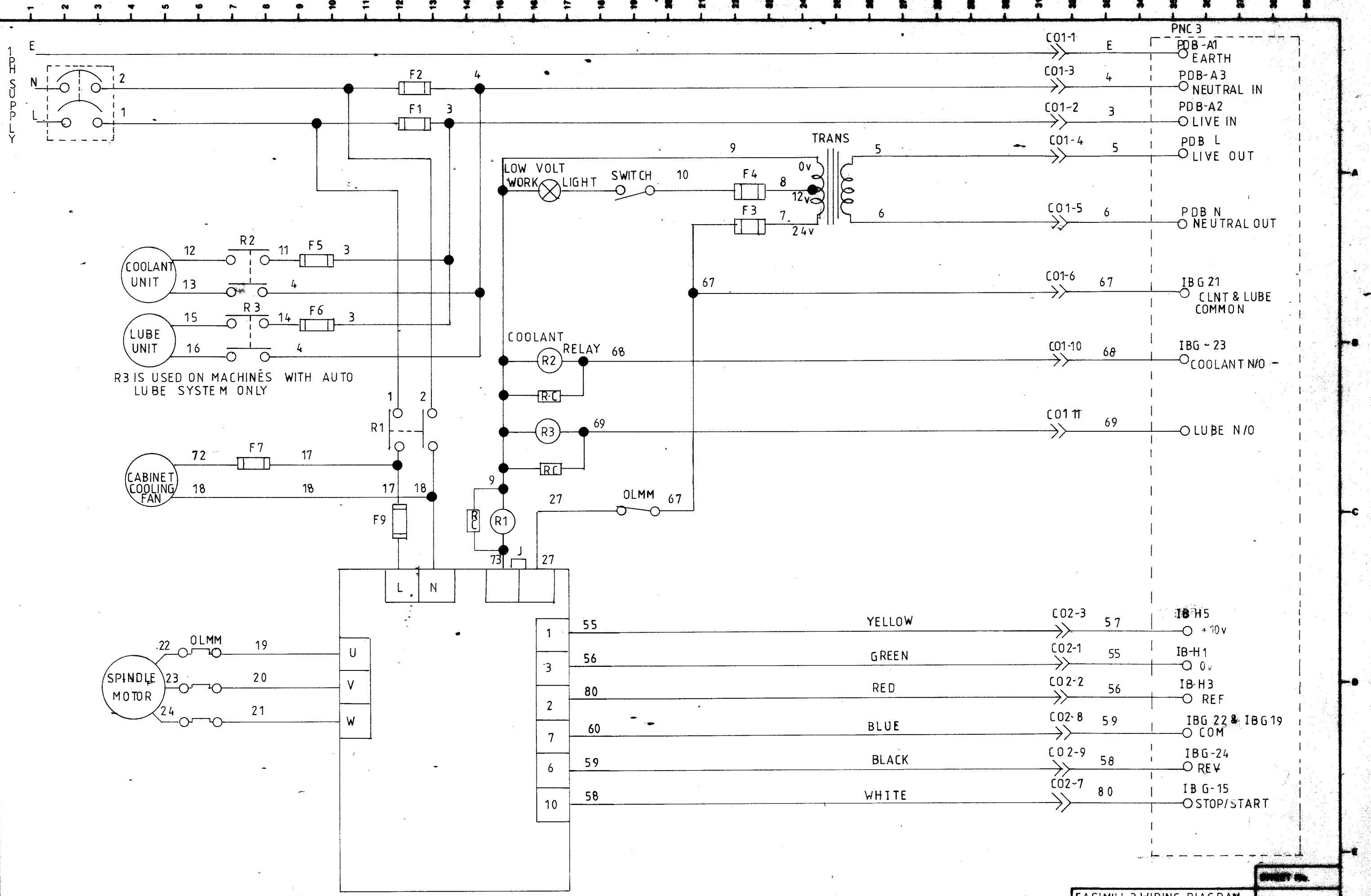
EASIMILL WIRING DIAGRAM  
MAGNETIC PANEL WITH  
JAGUAR CUB

SHEET No.  
OF  
CONT. ON  
SHEET No.



EASIMILL 3 WIRING DIAGRAM  
SCHEMATIC N°1 WITH  
JAGUAR CUB

SHEET No.  
OF  
CONT. ON  
SHEET No.



R3 IS USED ON MACHINES WITH AUTO LUBE SYSTEM ONLY

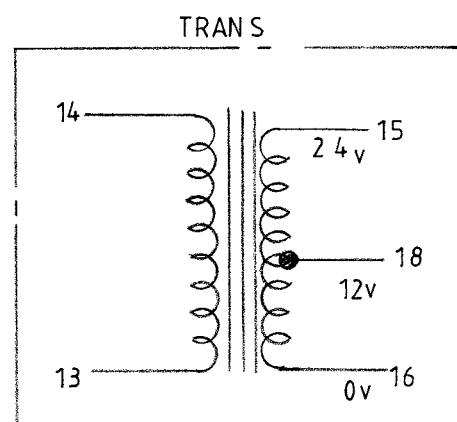
EASIMILL 3 WIRING DIAGRAM  
SCHEMATIC N°1 WITH  
JAGUAR CUB

FLA	FLB	FLC	ST	R	F	COM	0v	REF	CRF
	73	37	59	58	80	71	55	56	57

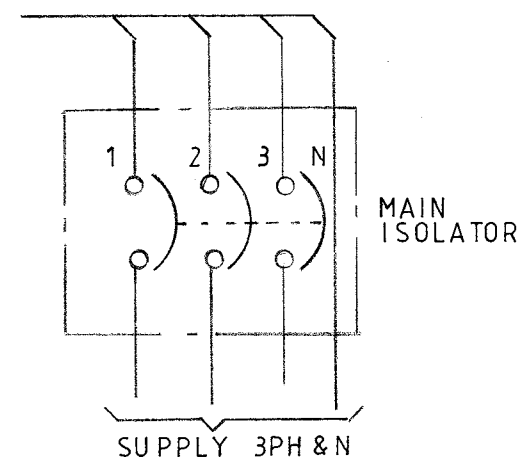
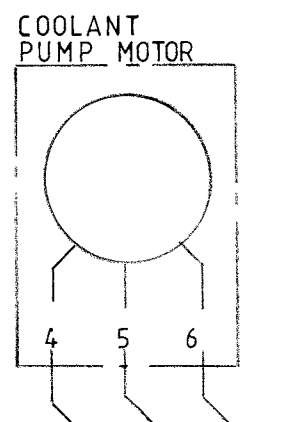
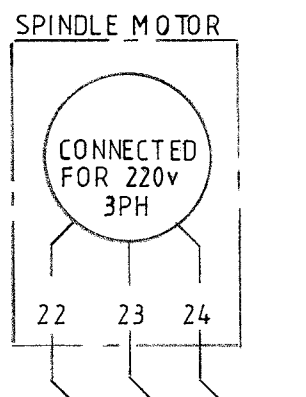
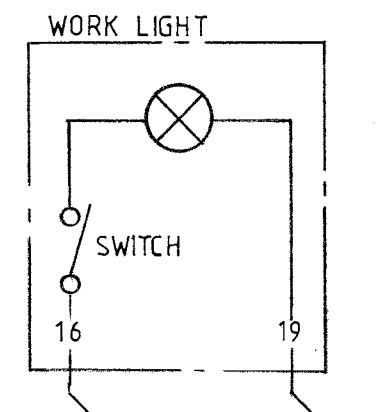
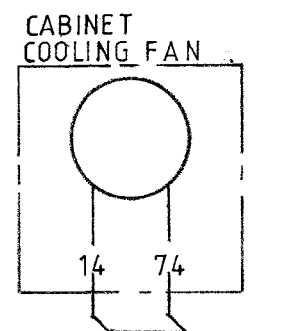
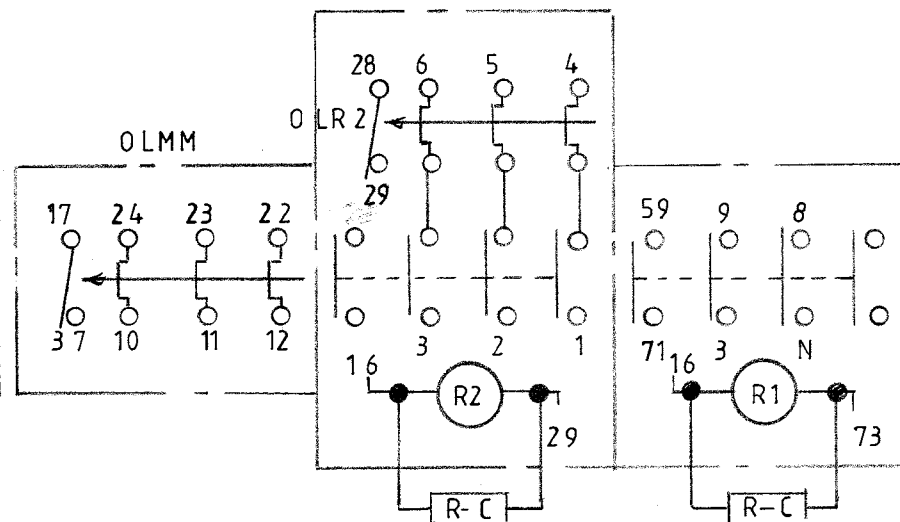
L1		N	R22	R24	T1	U	V	W
9		8		3	N	10	11	12

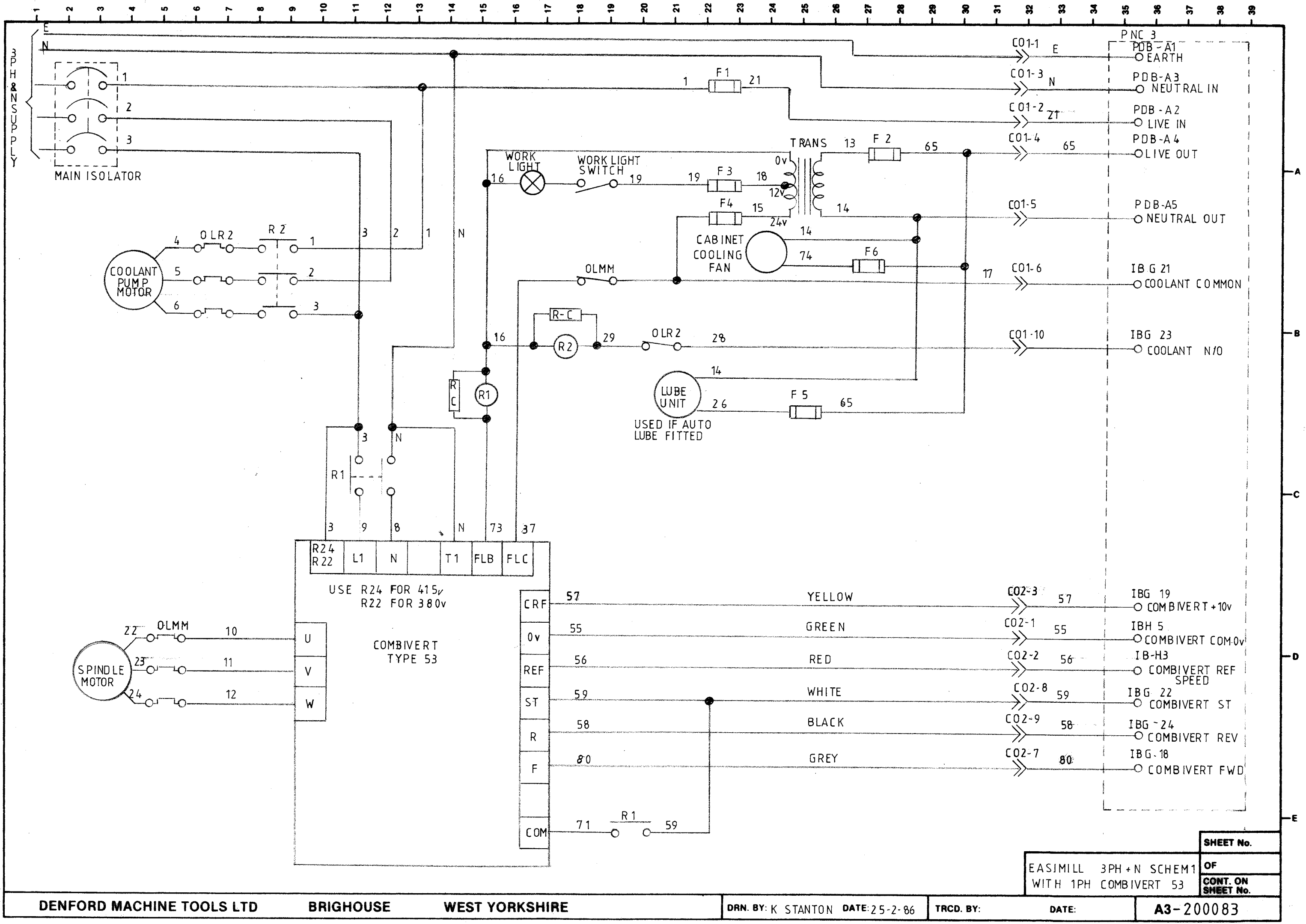
COMBIVERT 53  
CONNECTIONS

74	73	71	65	59	37	28	26	24	23	22	21	19	17	16	14	14	12	11	10	9	8	6	5	4	3	2	1	N	N
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	---



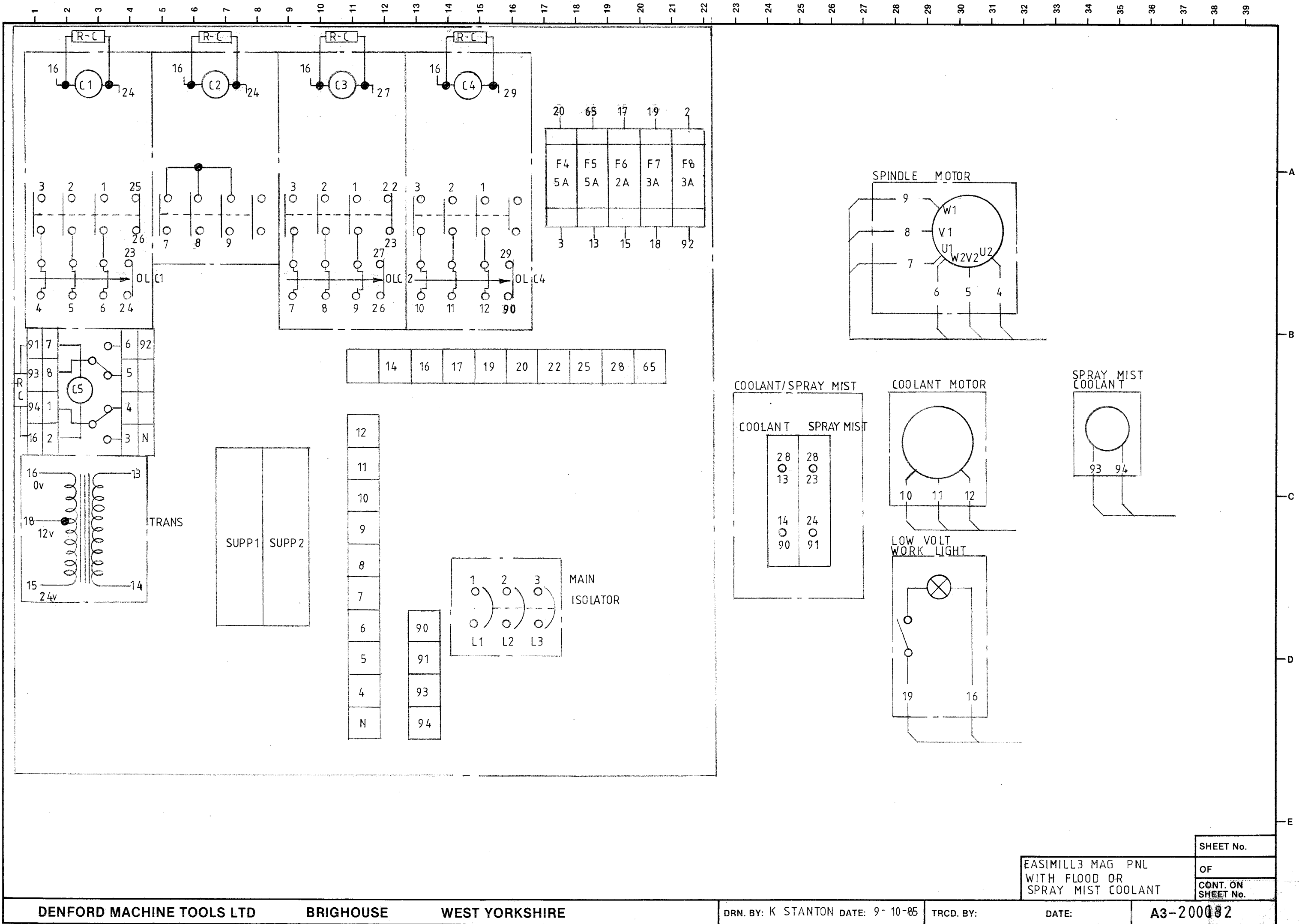
74	26	17	19	13	21
F6	F5	F4	F3	F2	F1
2A	2A	2A	2A	2A	5A
65	65	15	18	65	1





EASIMILL 3PH+N SCHEM1  
WITH 1PH COMBIVERT 53

SHEET No.  
OF  
CONT. ON  
SHEET No.



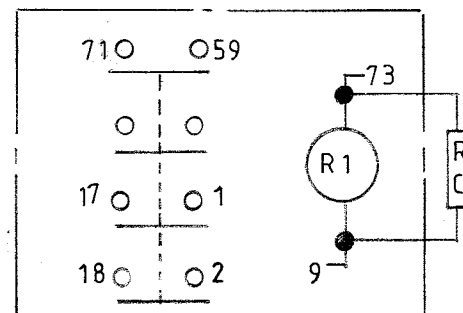
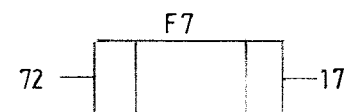
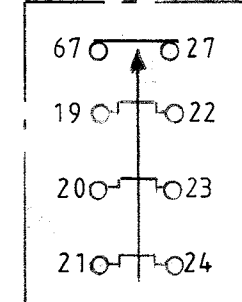
# COMBIVERT

N	18	FLC	27
		FLB	73
L	17	FLA	
T1	2	LOW	
R22		FRQ	
R24	1	0v	55
		REF	56
		CRF	57
		COM	71
U	19	R	58
V	20	F	80
W	21	ST	59

TB3

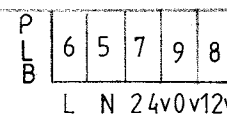
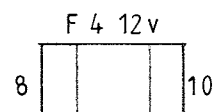
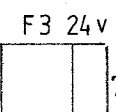
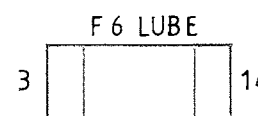
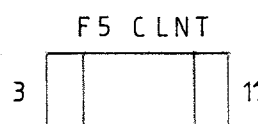
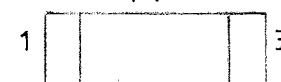
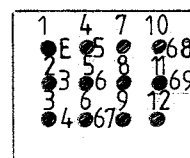
1
2
17
18
19
20
21
22
23
24
27
59
71
72
73

## SPINDLE MOTOR OVERLOAD RELAY



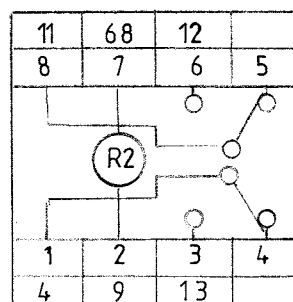
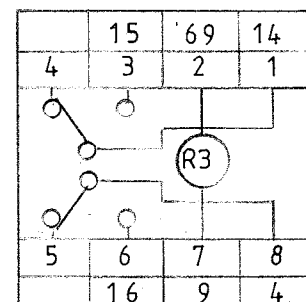
TB1

E	E
1	L
2	N
E	B
9	0v
67	24v
E	E
15	A
16	B
E	E
13	A
12	B



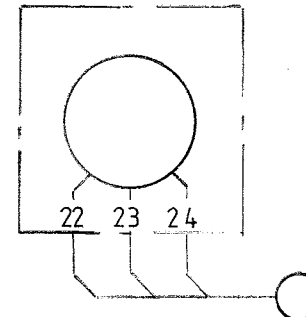
TB2

12v	10
0v	9
24v	67
E	E

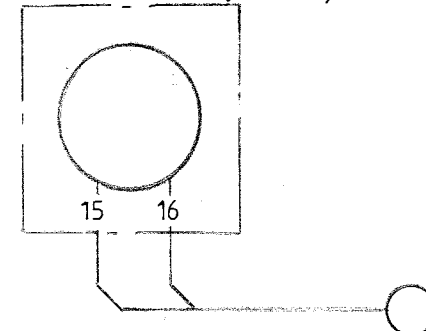


R3 IS USED ON MACHINES WITH AUTO LUBE SYSTEM

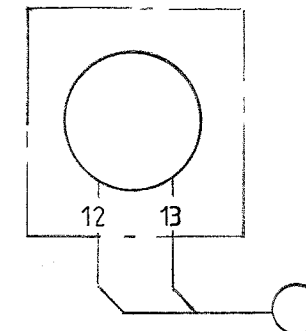
## SPINDLE MOTOR



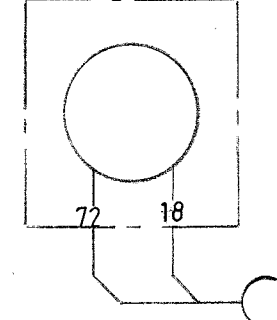
## LUBE UNIT (IF USED)



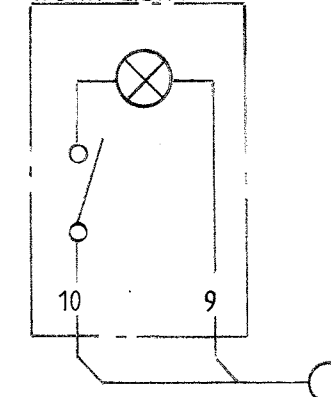
## COOLANT UNIT



## CABINET COOLING FAN

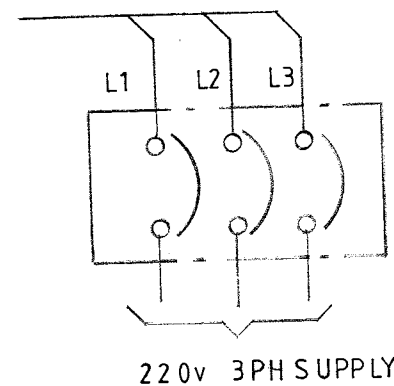
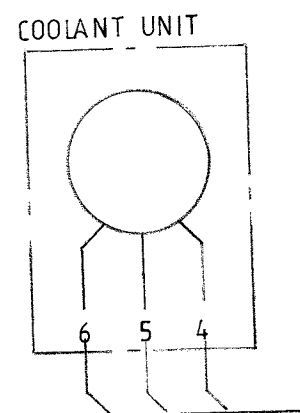
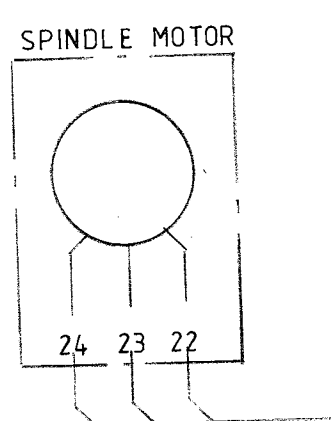
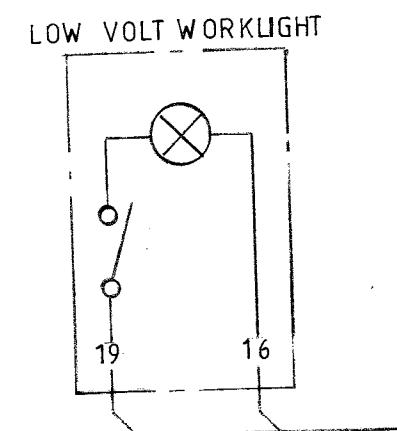
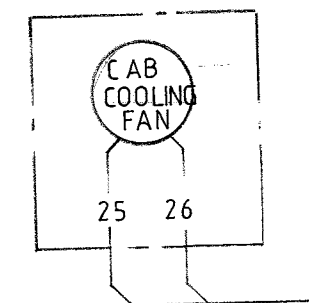
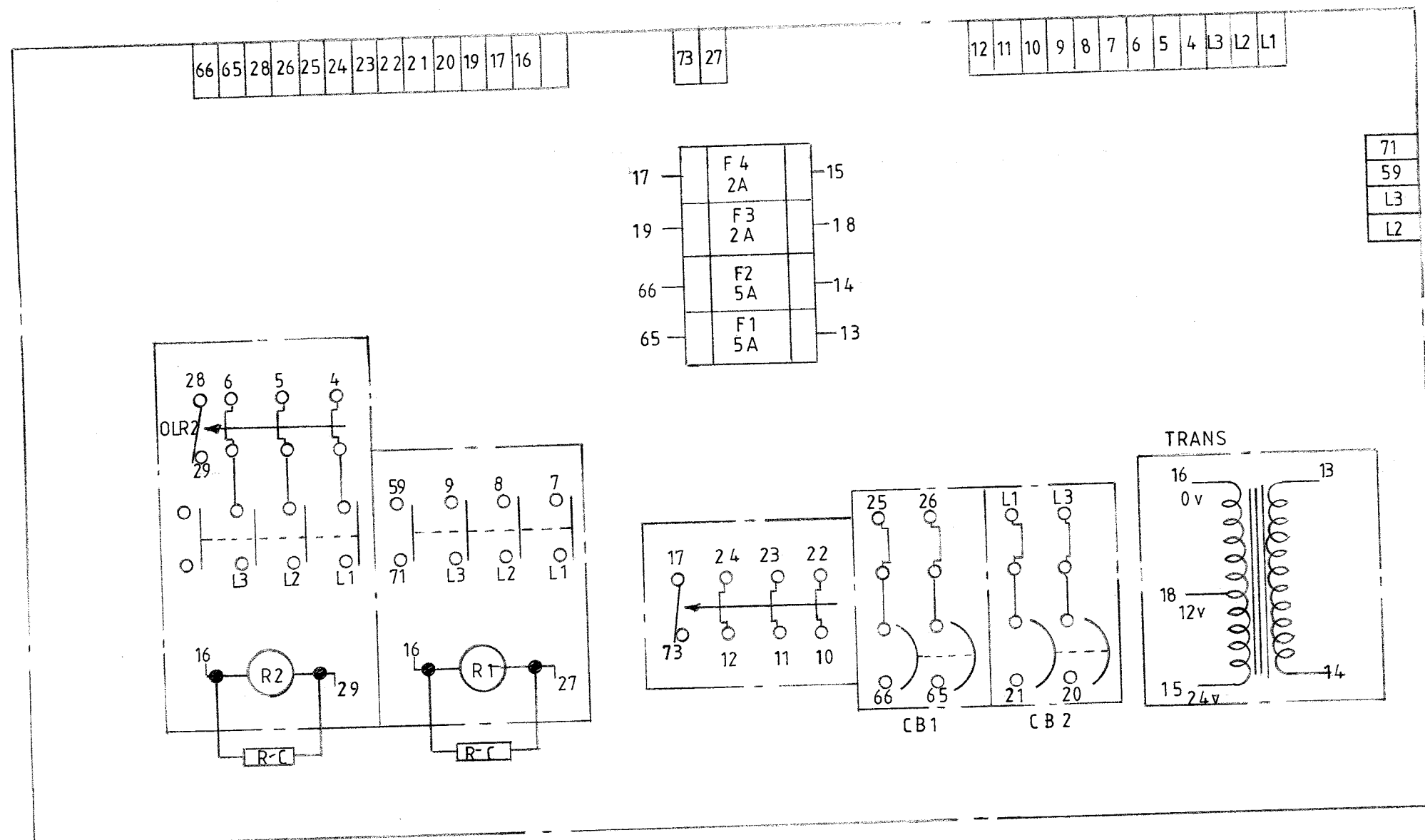


## LOW VOLTAGE WORK LIGHT



EASIMILL WIRING DIAGRAM OF MAGNETIC PANEL (1PH COMBIVERT) TYPE 53

SHEET No. OF CONT. ON SHEET No.



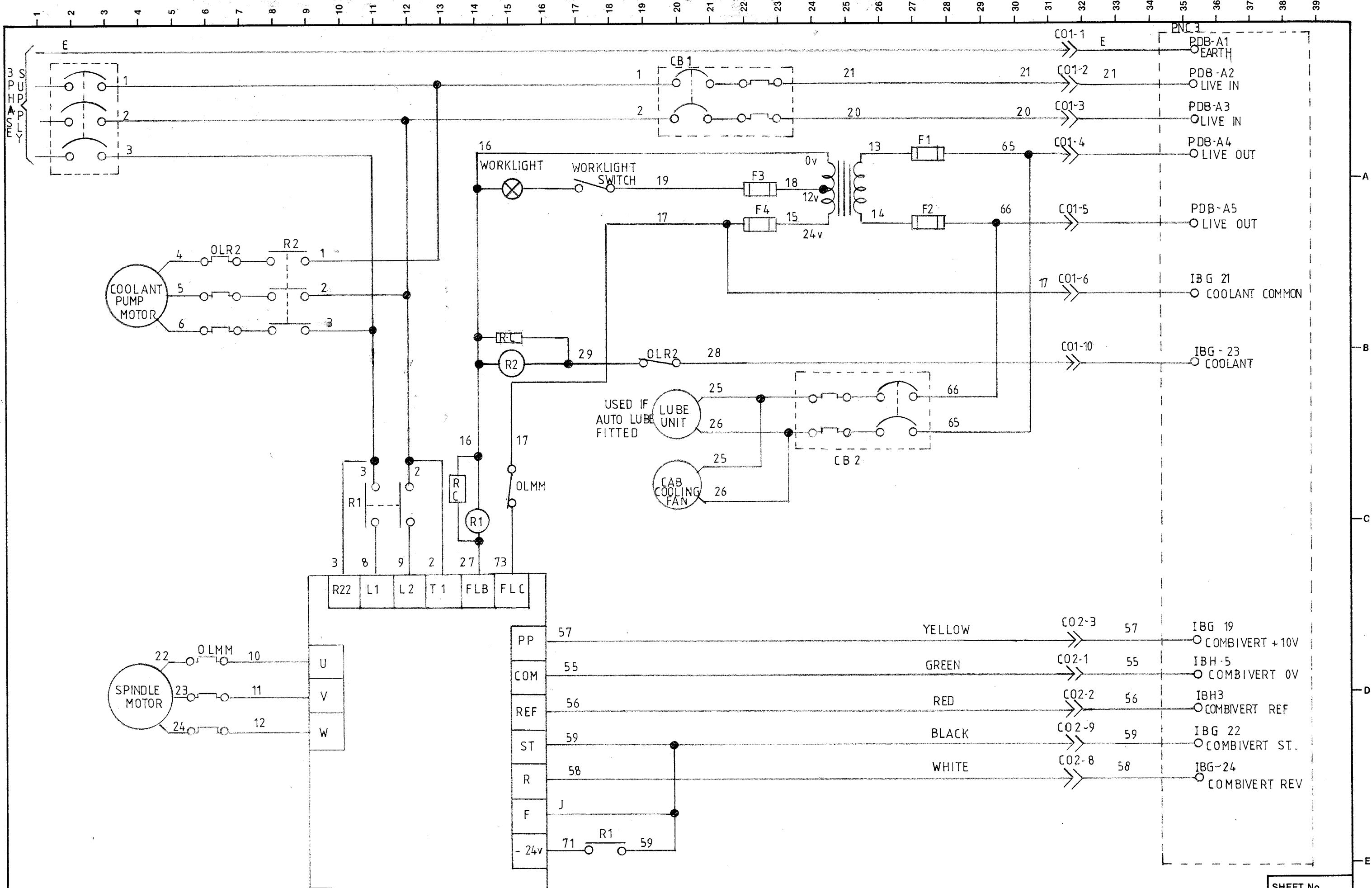
EASIMILL 3 3PH 220v  
(COMBIVERT) MAG PNL  
WIRING DIAGRAM

SHEET No.

OF

CONT. ON  
SHEET No.

A3-200078



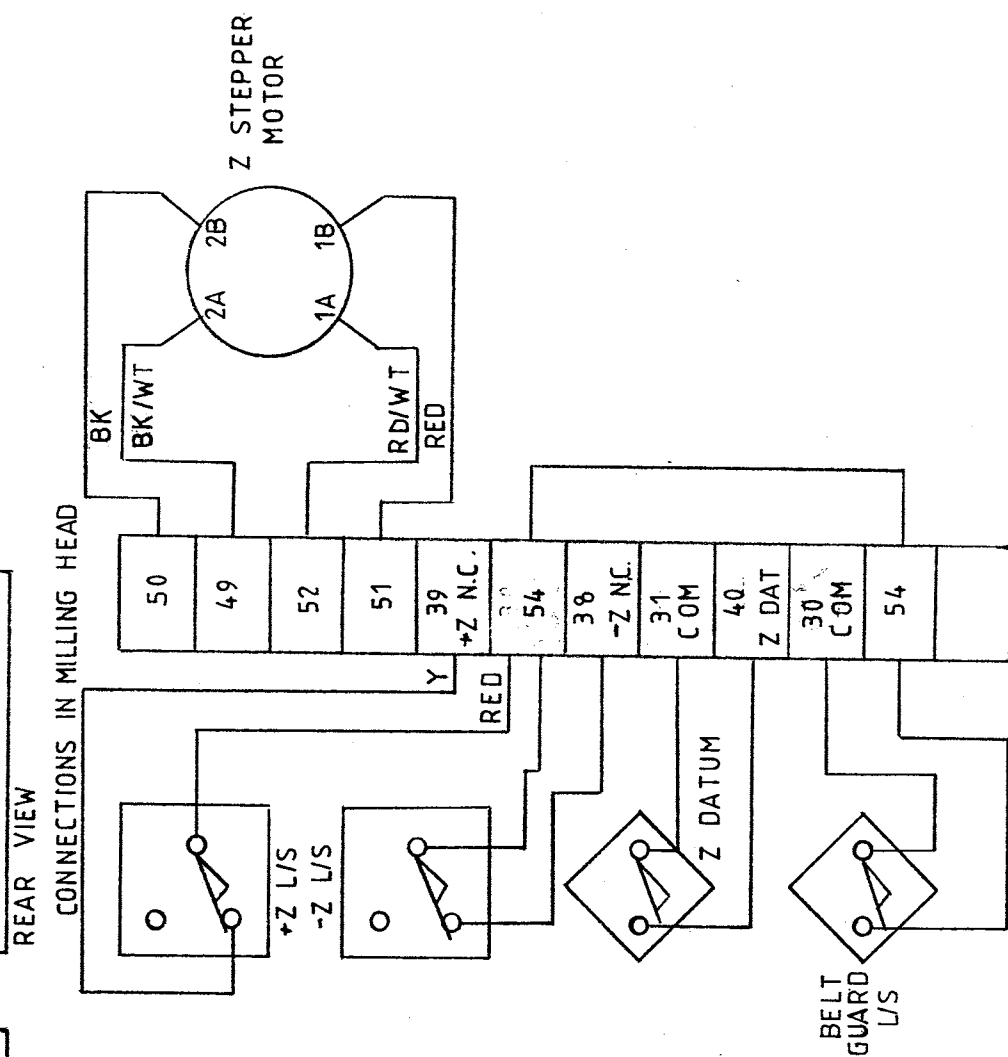
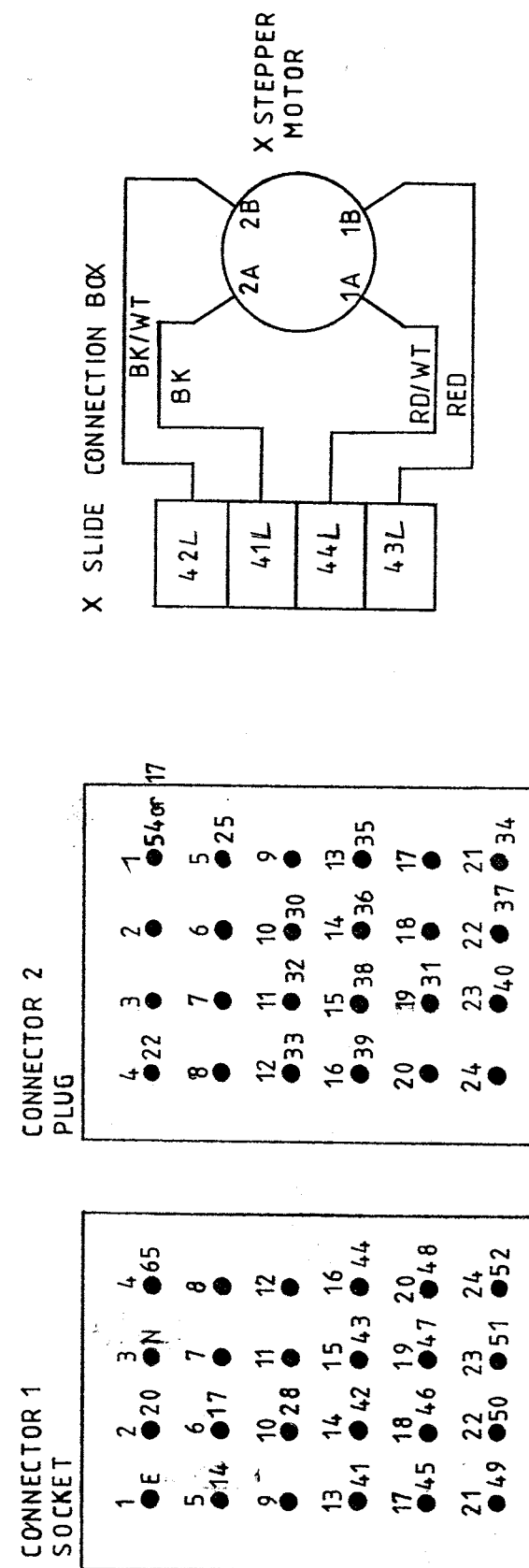
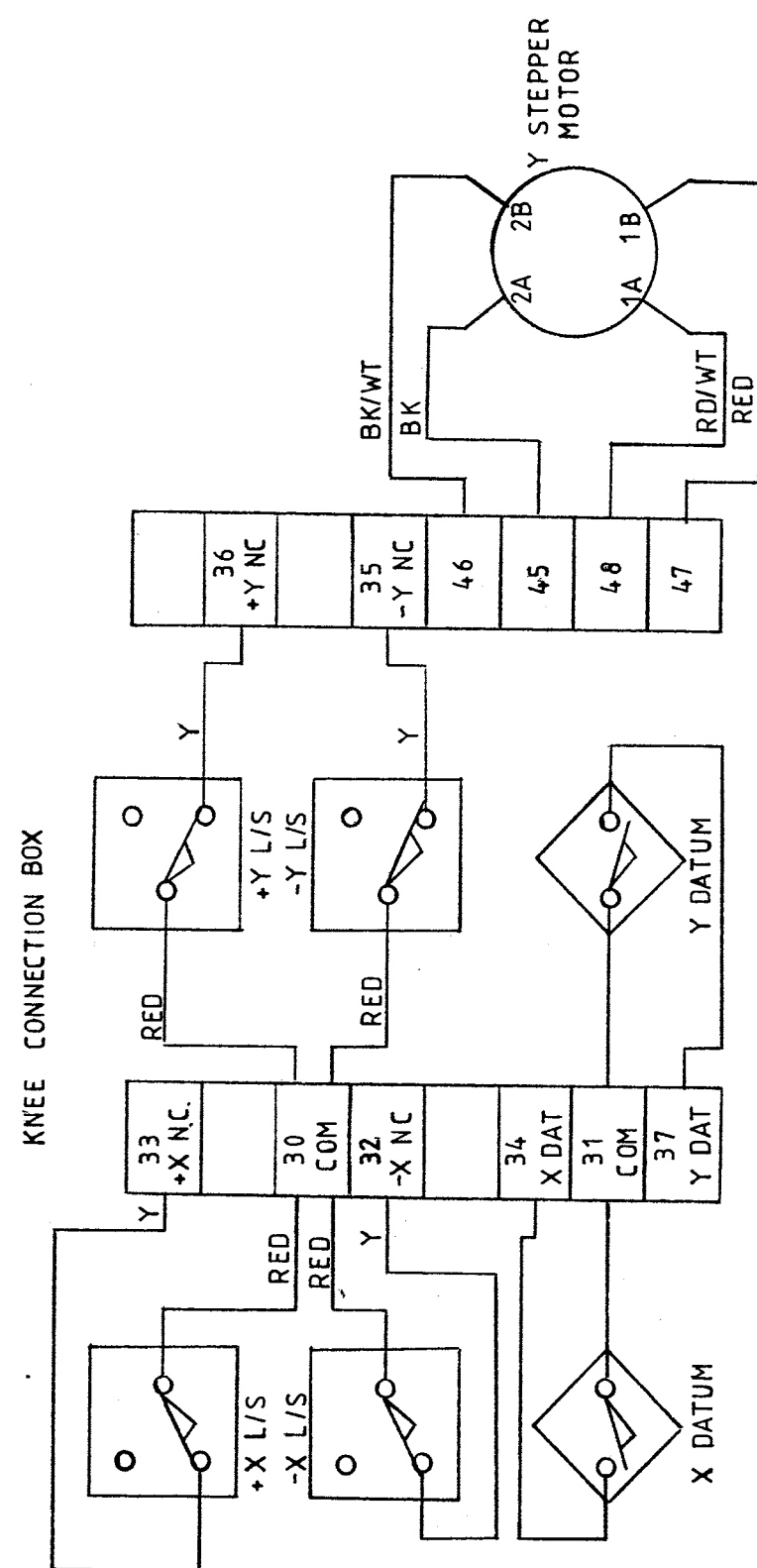
SHEET No.

EASIMILL 220V 3PH  
WITH COMBIVERT 52  
SCHEMATIC N°1

OF

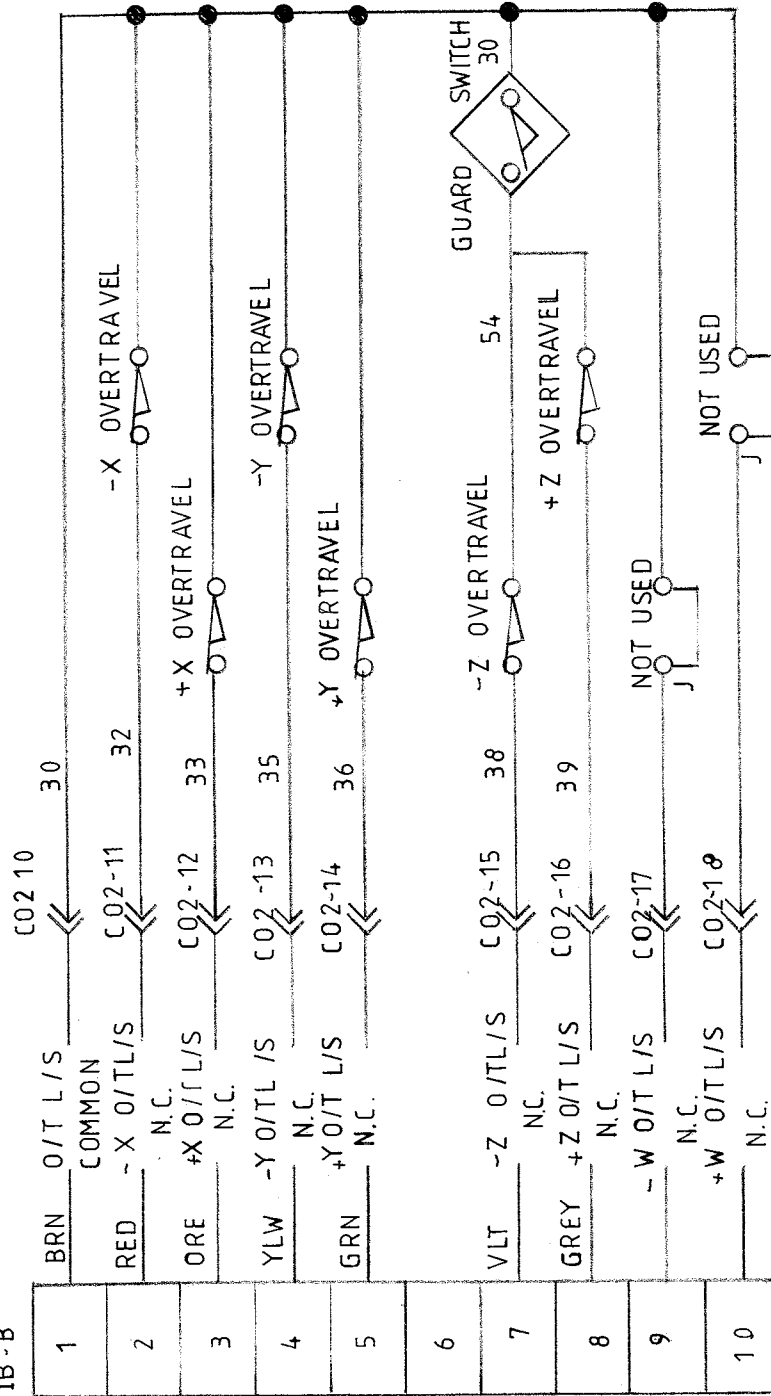
CONT. ON  
SHEET No.

Nº	REVISION	DATE
1	BELT GUARD L/S WIRE N°30 WAS 17 Z LIMIT SWITCHES WERE CONNECTED TO 30 COM	3/84 KS

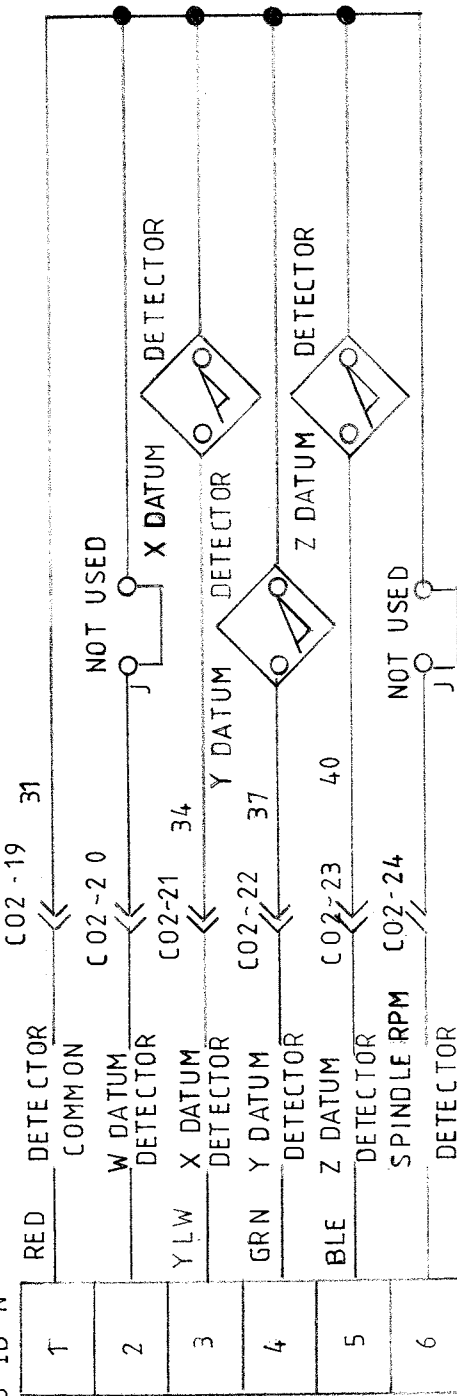


EASIMILL WIRING DIAGRAM

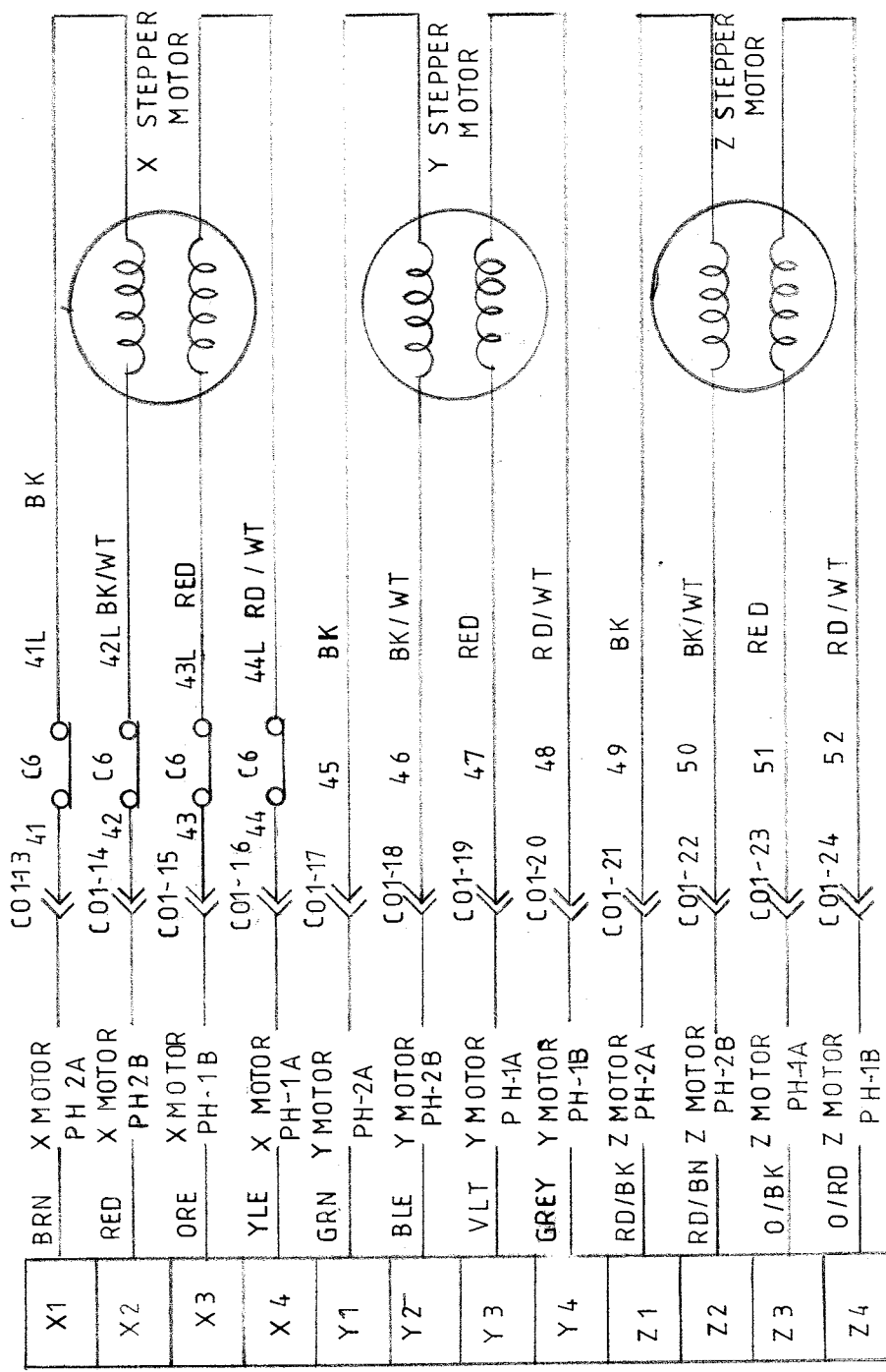
PNC 3 -IB-B



PNC 3 IB N

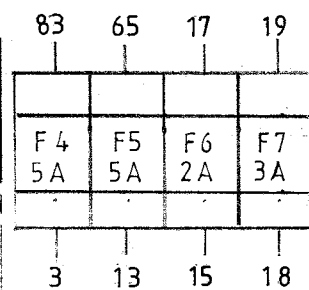
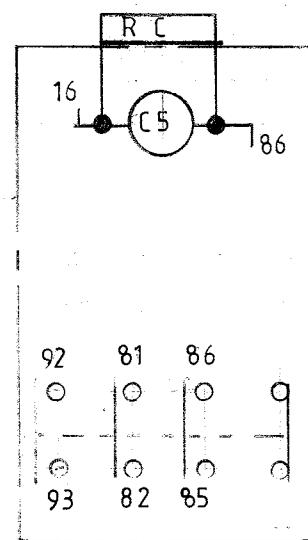
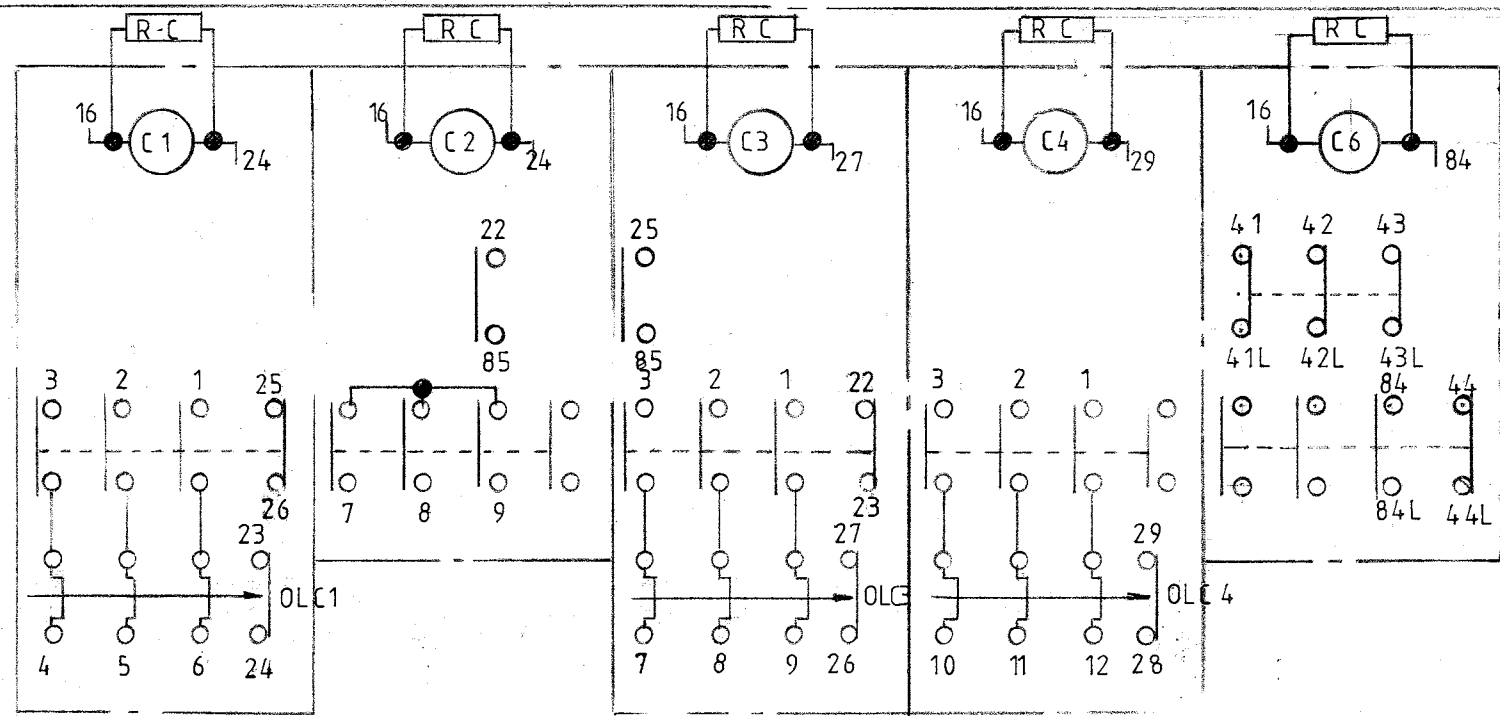


PNC 3 DRIVE BOARD

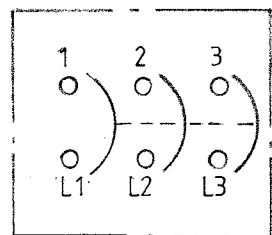
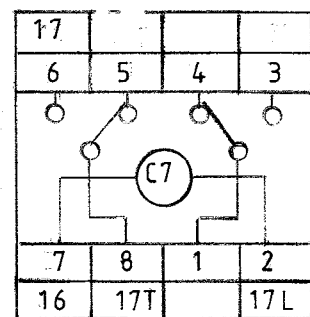


EASIMILL3 WIRING DIAGRAM  
SCHEMATIC N°2 WITH MKII  
GUARD SAFETY SW. + P.F.

SHEET No.  
OF  
CONT. ON  
SHEET No.

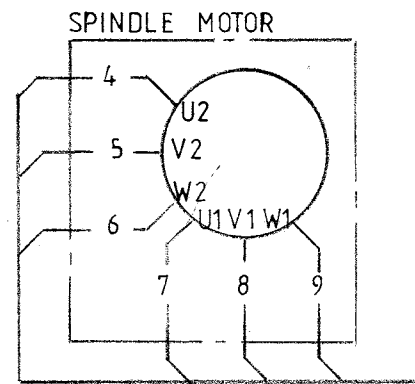
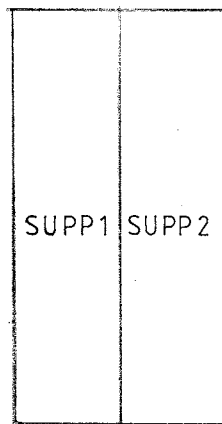
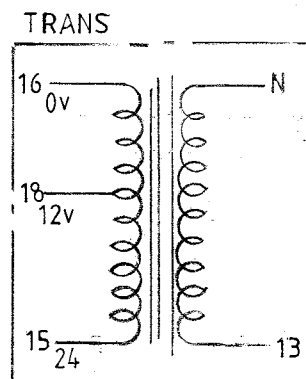


- 28
- 25
- 22
- 20
- 19
- 17
- 16
- 12
- 11
- 10
- 9
- 8
- 7
- 6
- 5
- 4
- N
- 82
- 84
- 85
- 86
- N

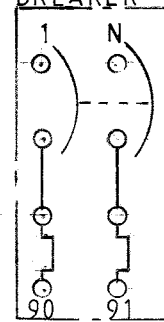


MAIN ISOLATOR

- 65
- 83
- 88
- 84L
- 41
- 42
- 43
- 44
- 41L
- 42L
- 43L
- 44L



CIRCUIT BREAKER



COOLANT MOTOR

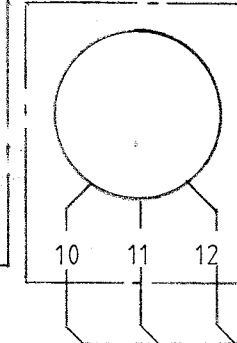


TABLE FEED TRANS. 220v TO 110v

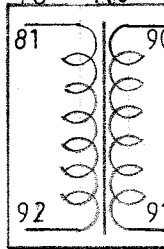
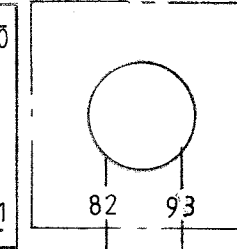
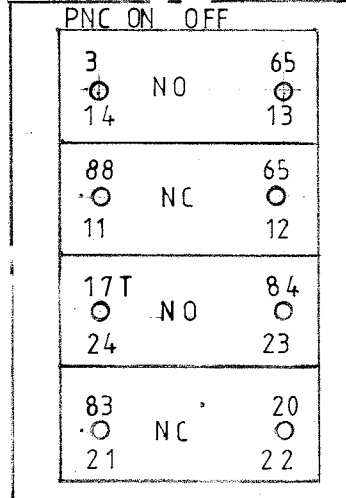


TABLE FEED UNIT



KEY SWITCH



PUSHBUTTON STATION (REAR VIEW)

SPINDLE LOW OFF HIGH

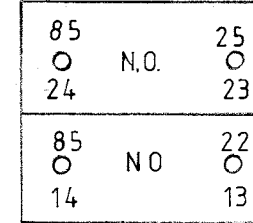
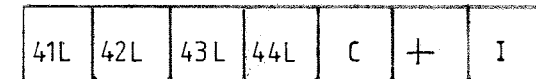
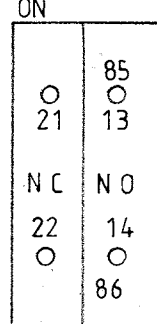
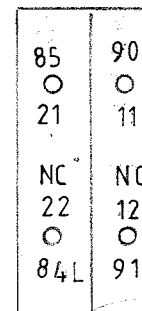


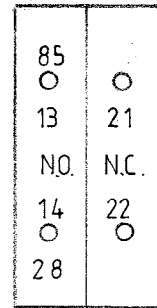
TABLE FEED ON



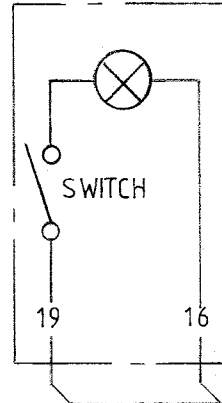
STOP

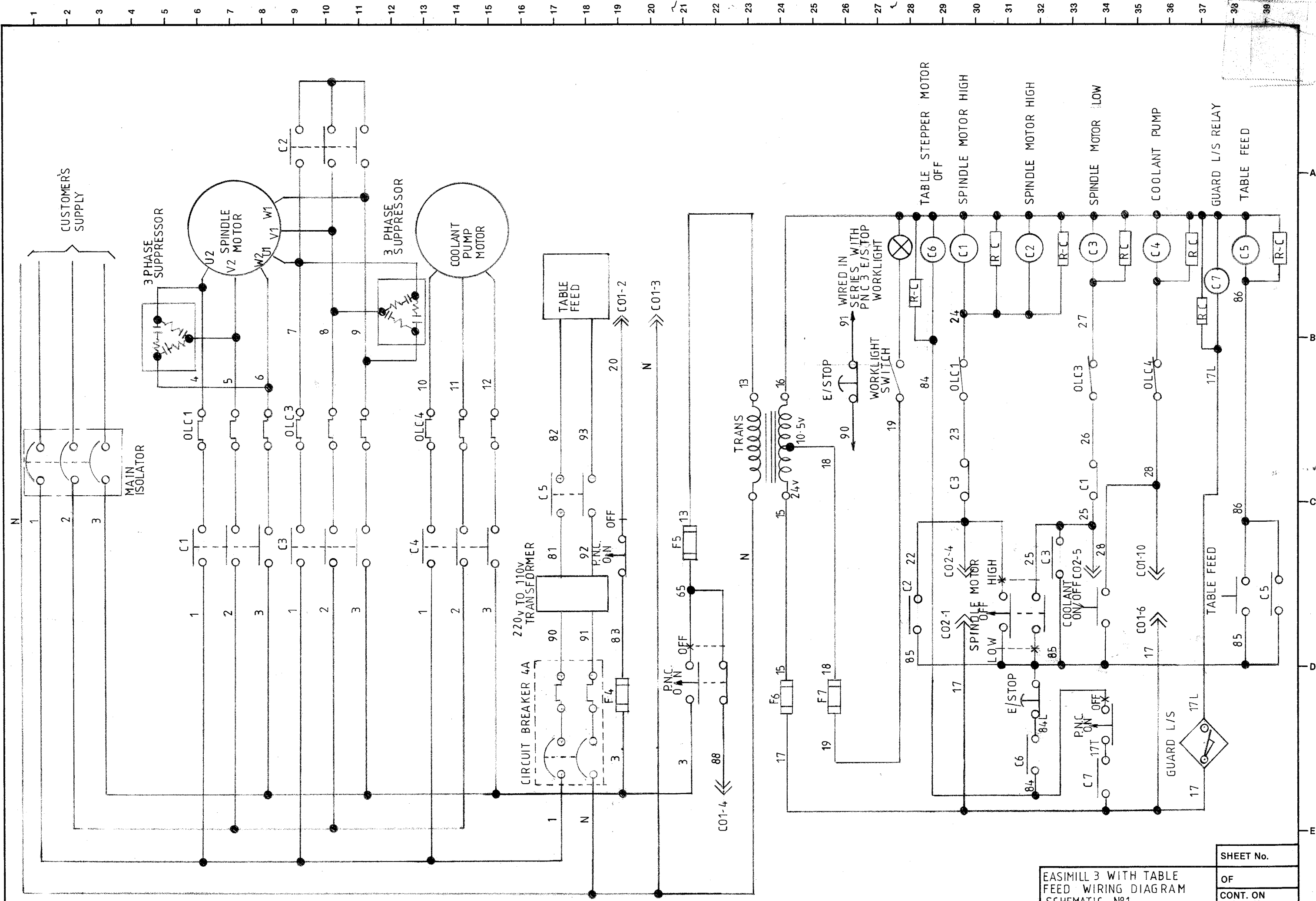


COOLANT OFF/ON



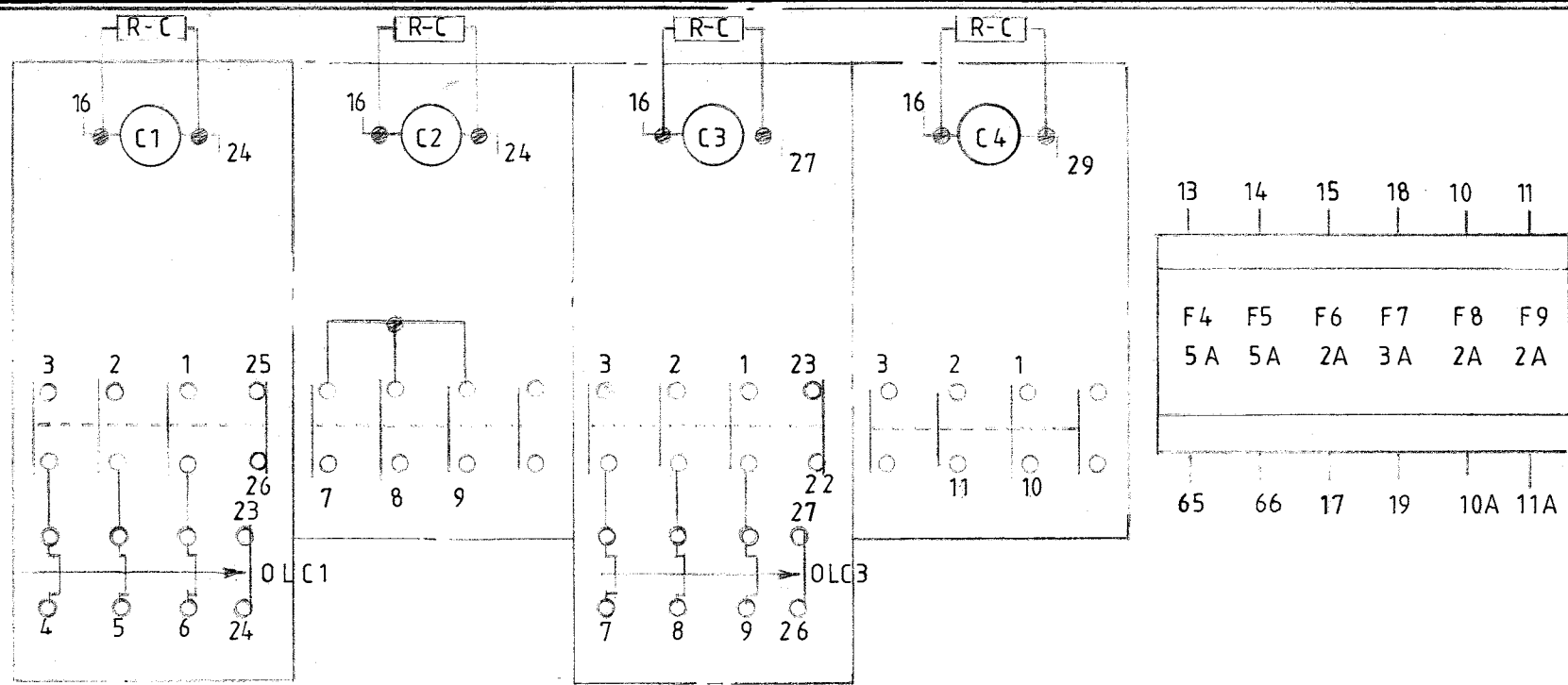
WORKLIGHT



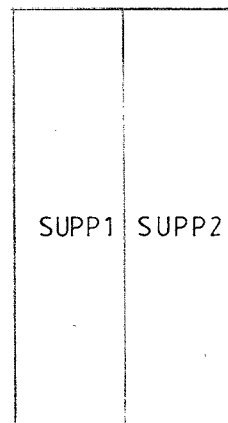
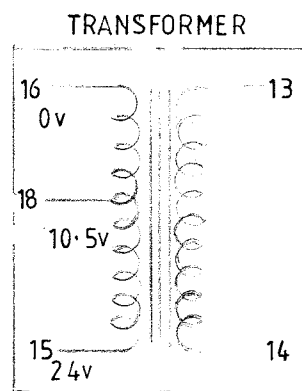


EASIMILL 3 WITH TABLE  
FEED WIRING DIAGRAM  
SCHEMATIC N°1

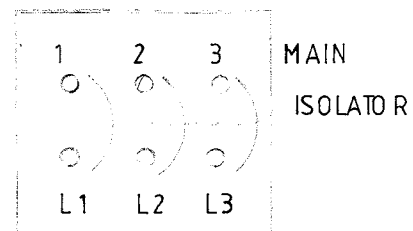
SHEET No.  
OF  
CONT. ON  
SHEET No.



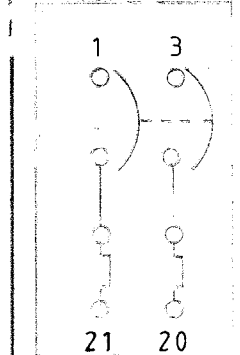
21	14	16	17	19	20	22	25	29	65
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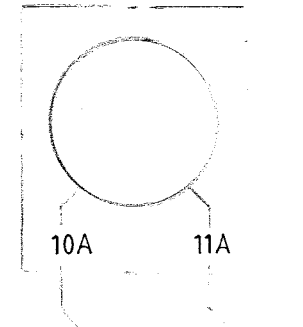
12
11A
10A
9
8
7
6
5
4
66



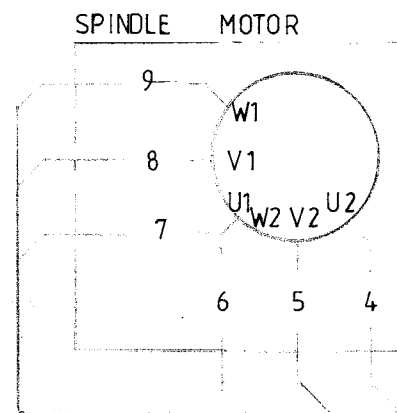
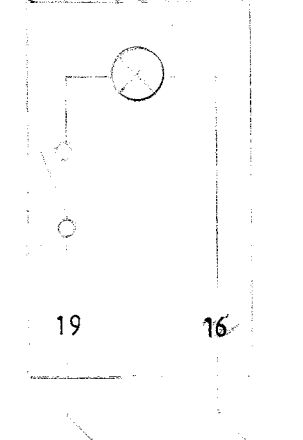
CIRCUIT BREAKER

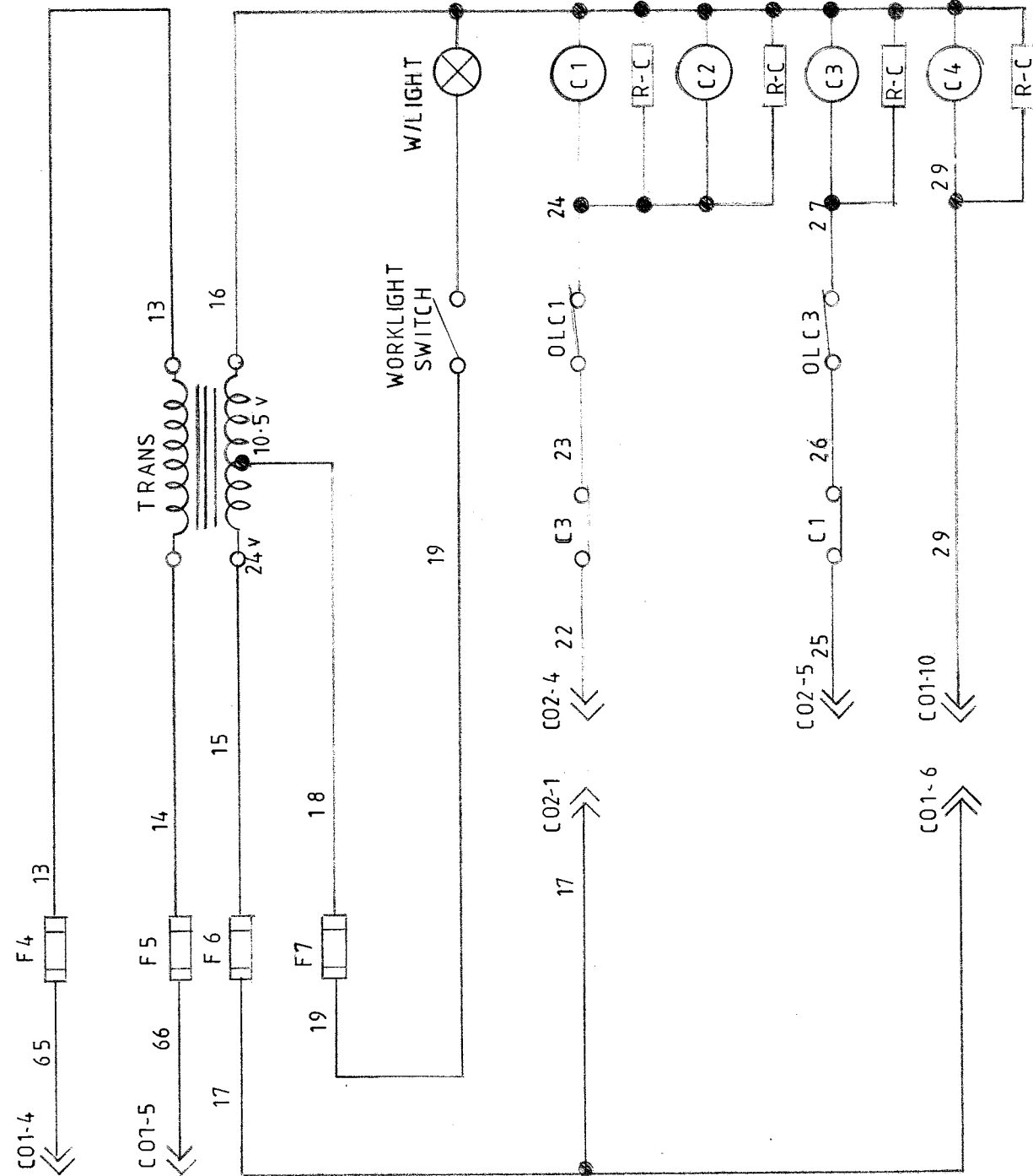
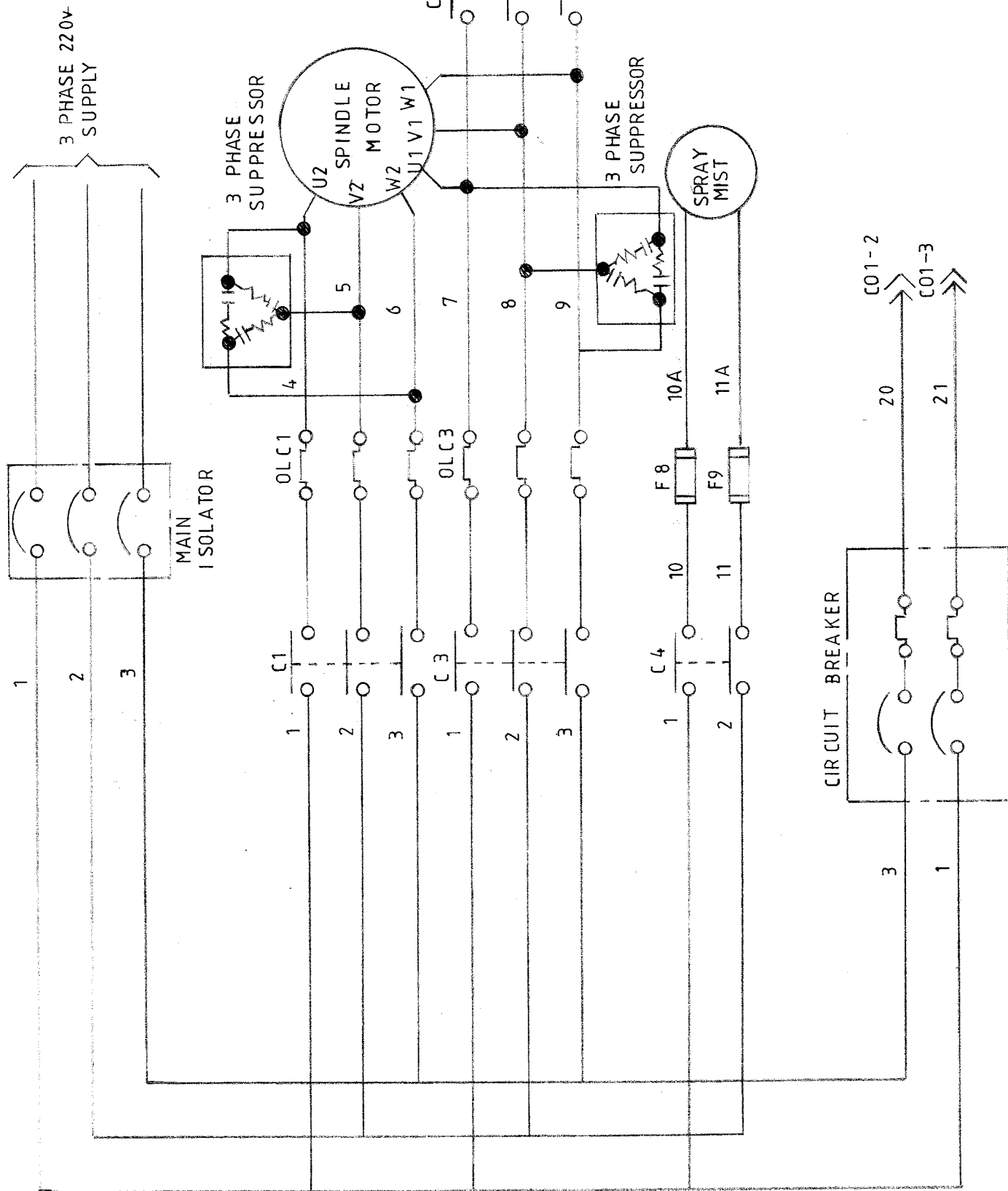


SPRAY MIST



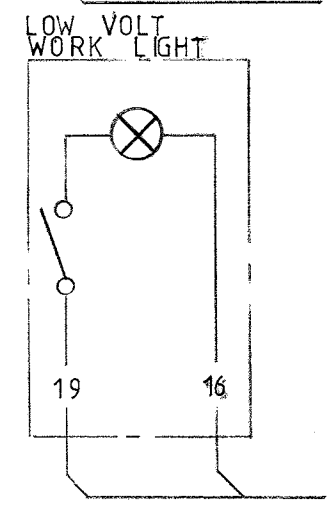
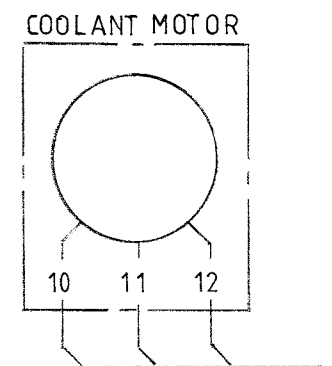
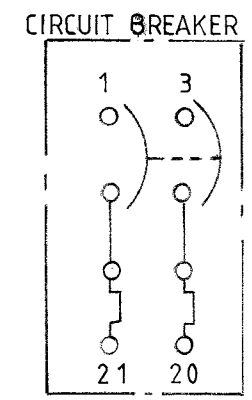
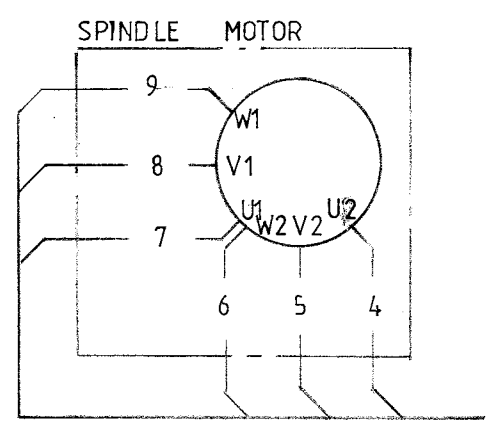
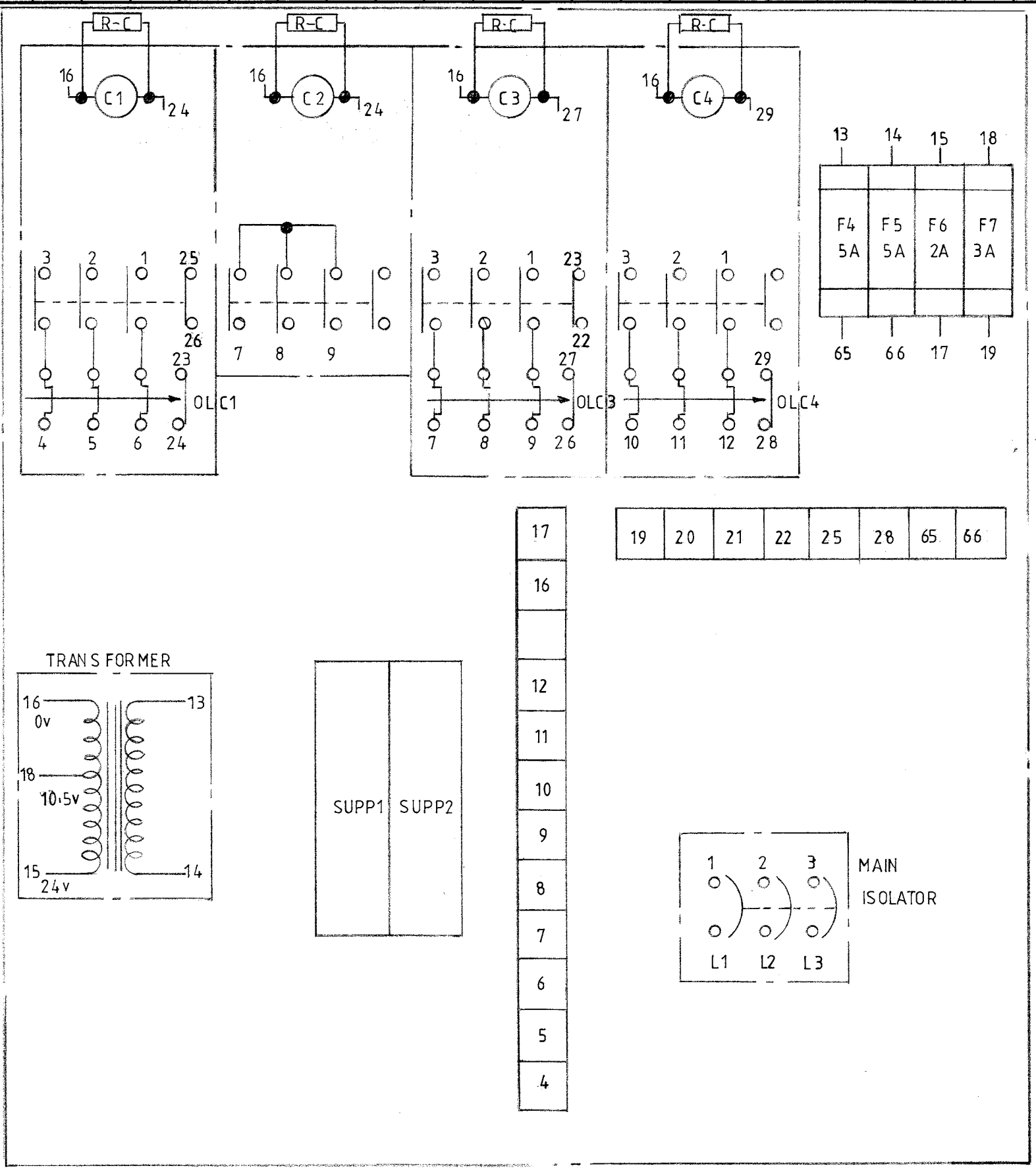
LOW VOLT WORK LIGHT





EASIMILL 3 WIRING DIAGRAM  
SCHEMATIC N°1 220v 3PH  
WITH SPRAY MIST COOLANT

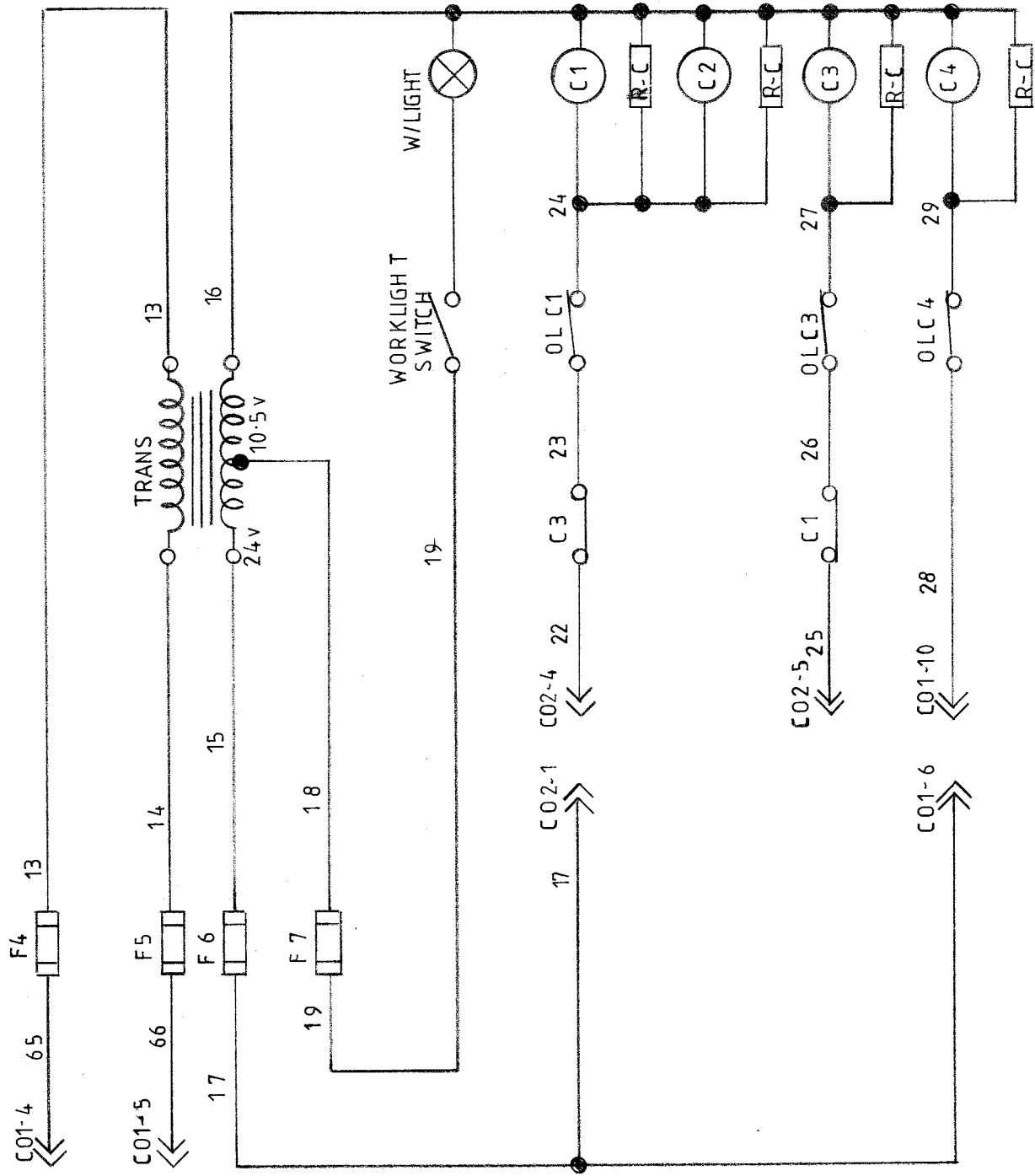
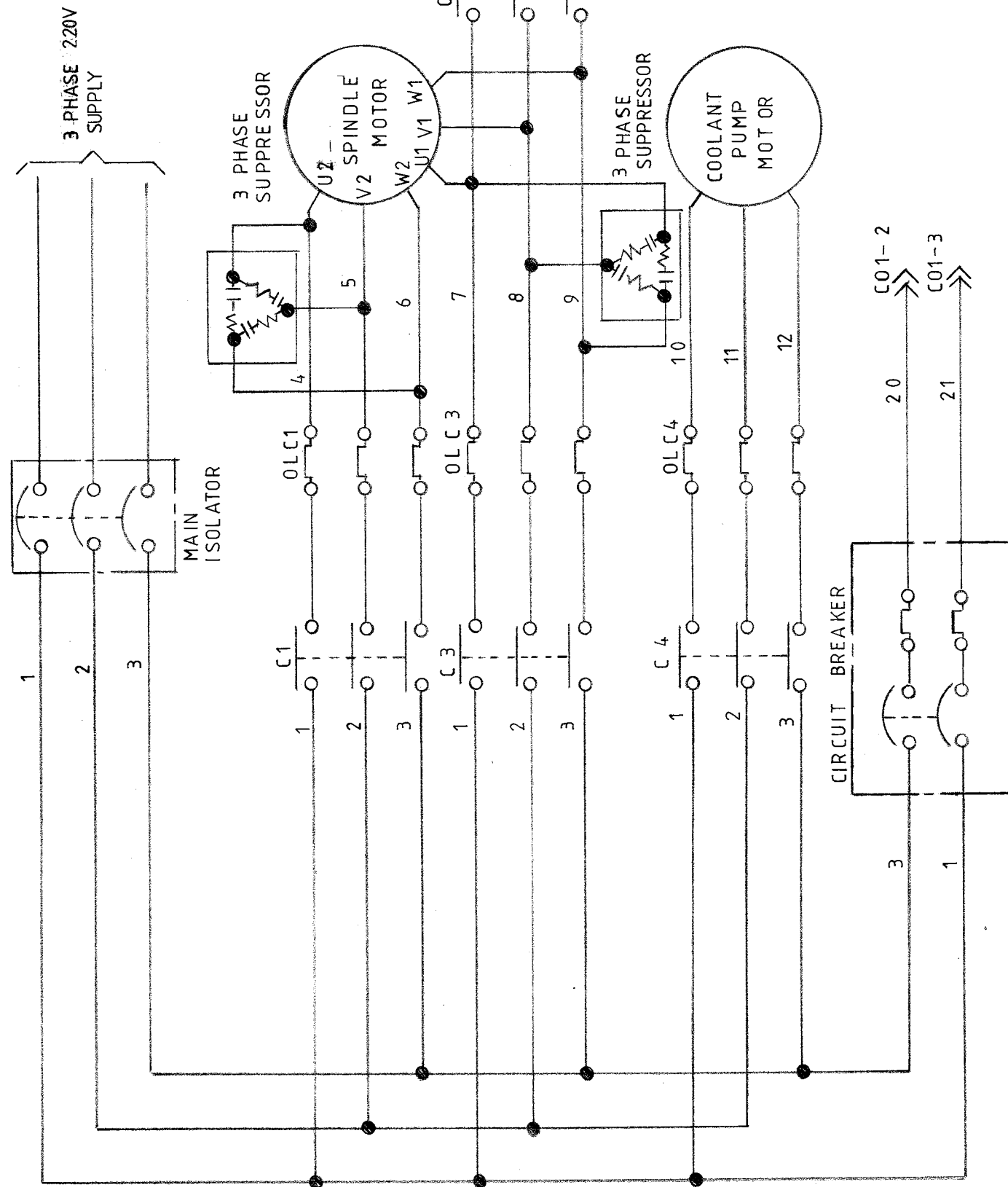
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OF  
CONT. ON  
SHEET No.



SHEET No.

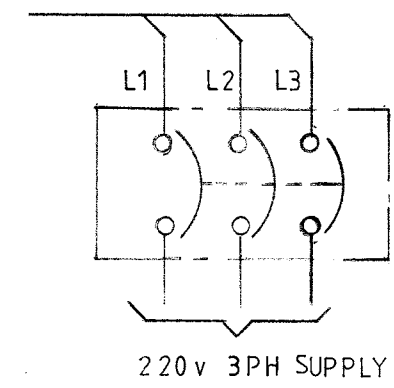
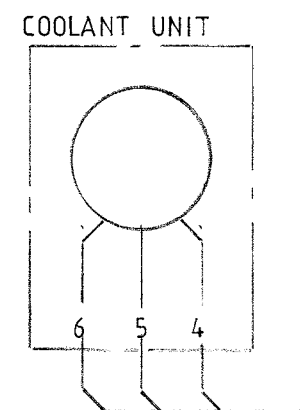
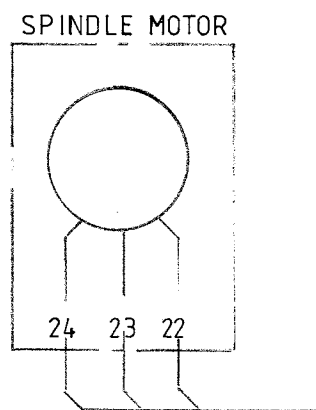
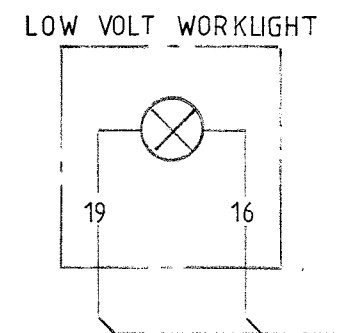
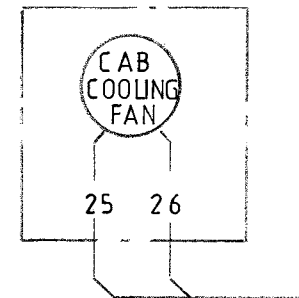
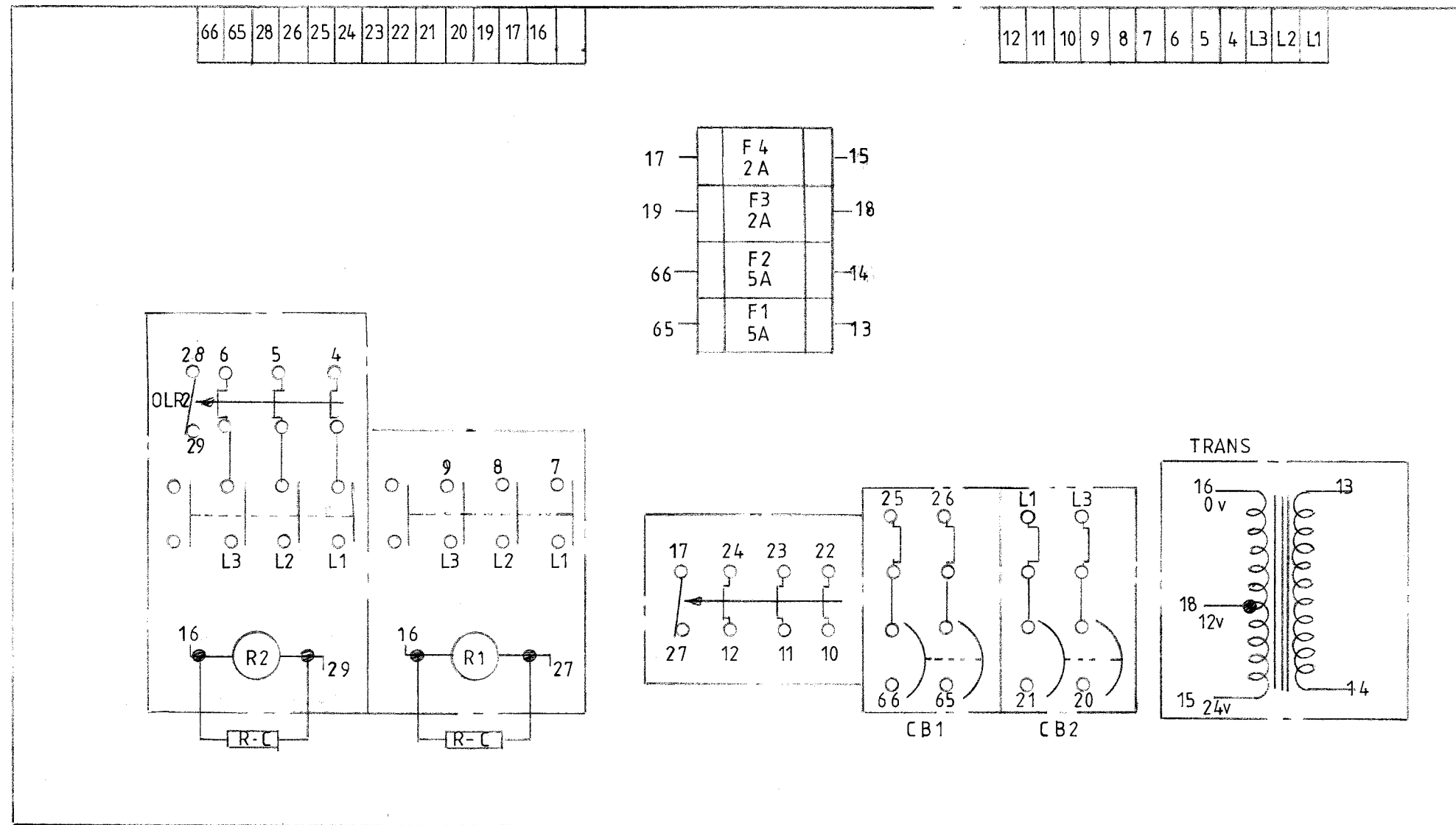
EASIMILL 3 WIRING DIAGRAM  
MAGNETIC PANEL 220v 3PH

OF  
CONT. ON  
SHEET No.



EASIMILL WIRING DIAGRAM  
SCHEMATIC N°1  
220V 3PH



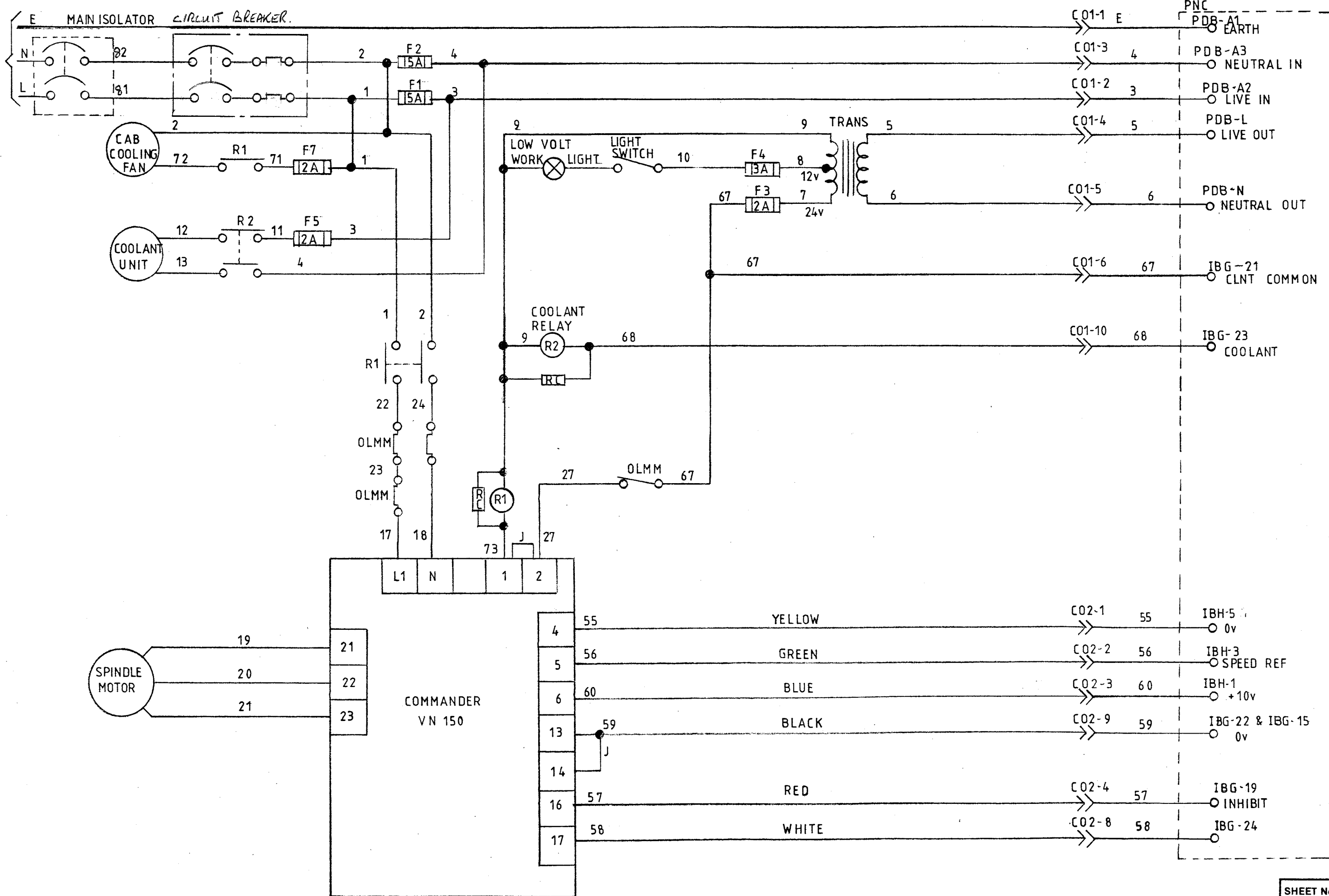


SHEET No.  
OF  
CONT. ON  
SHEET No.

EASIMILL 3 3PH 220v  
(COMBIVERT) MAG PNL  
WIRING DIAGRAM

A3-200064



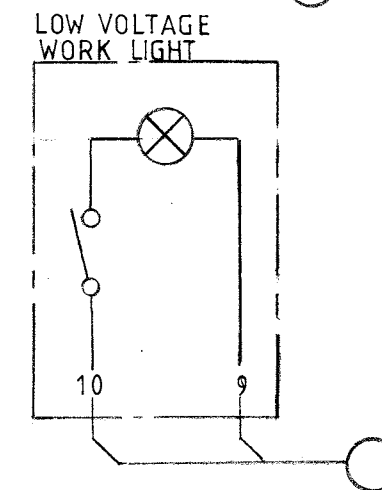
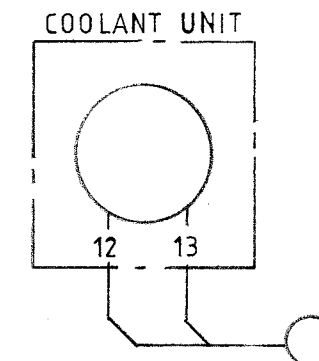
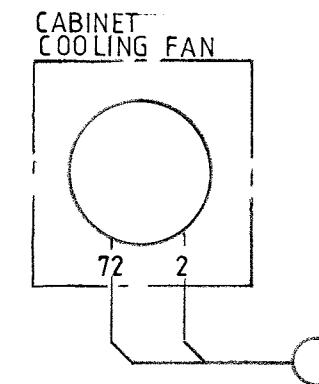
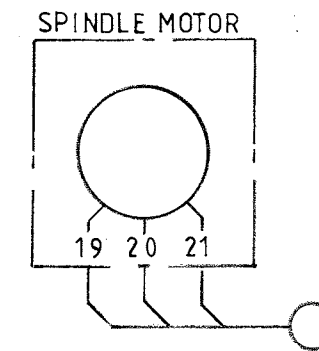
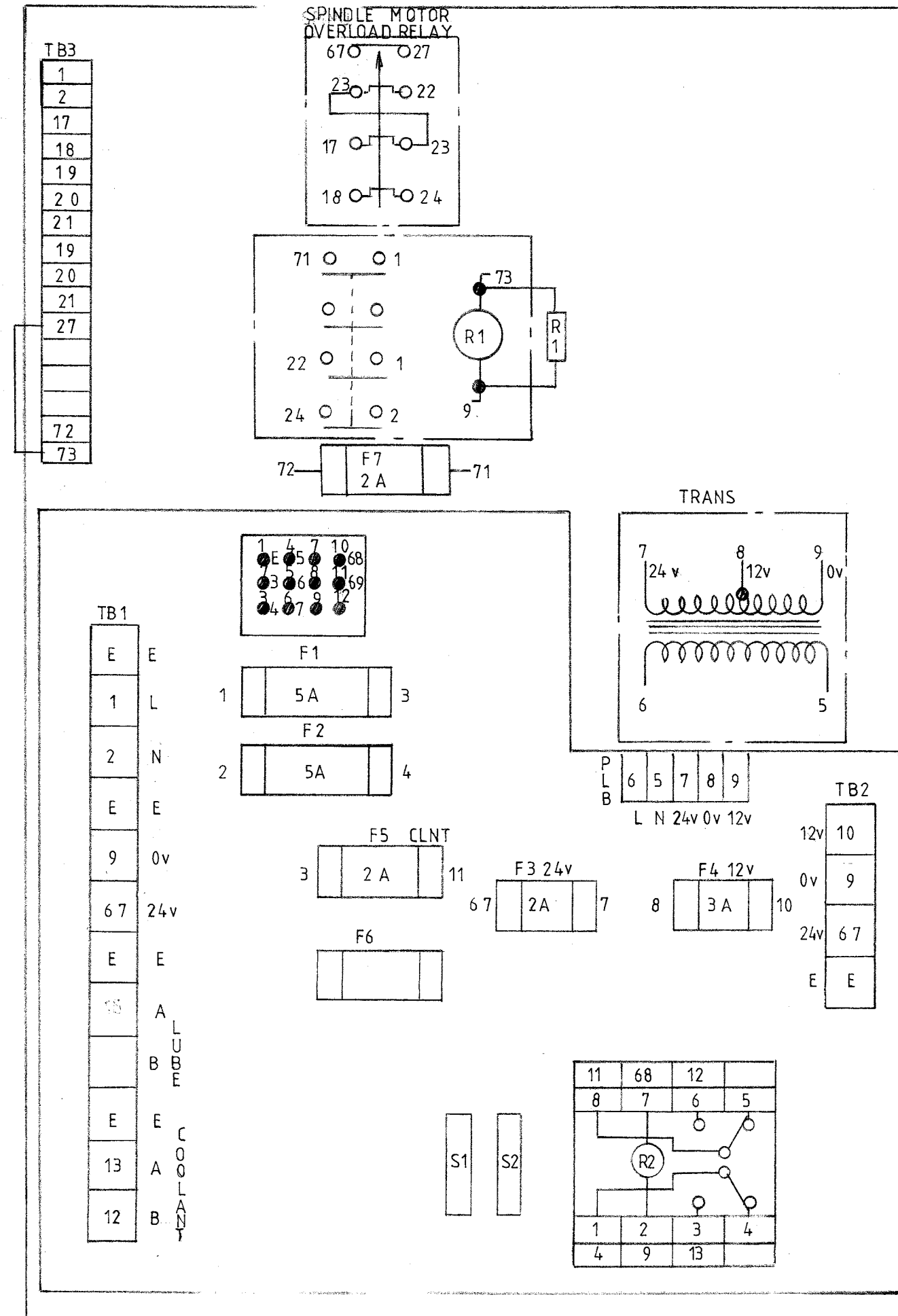


EASIMILL 3 12PH COMMANDER  
WIRING DIAGRAM SCHEM. No 1  
WITH MAINS CIRCUIT BREAKER

SHEET No.  
OF  
CONT. ON  
SHEET No.

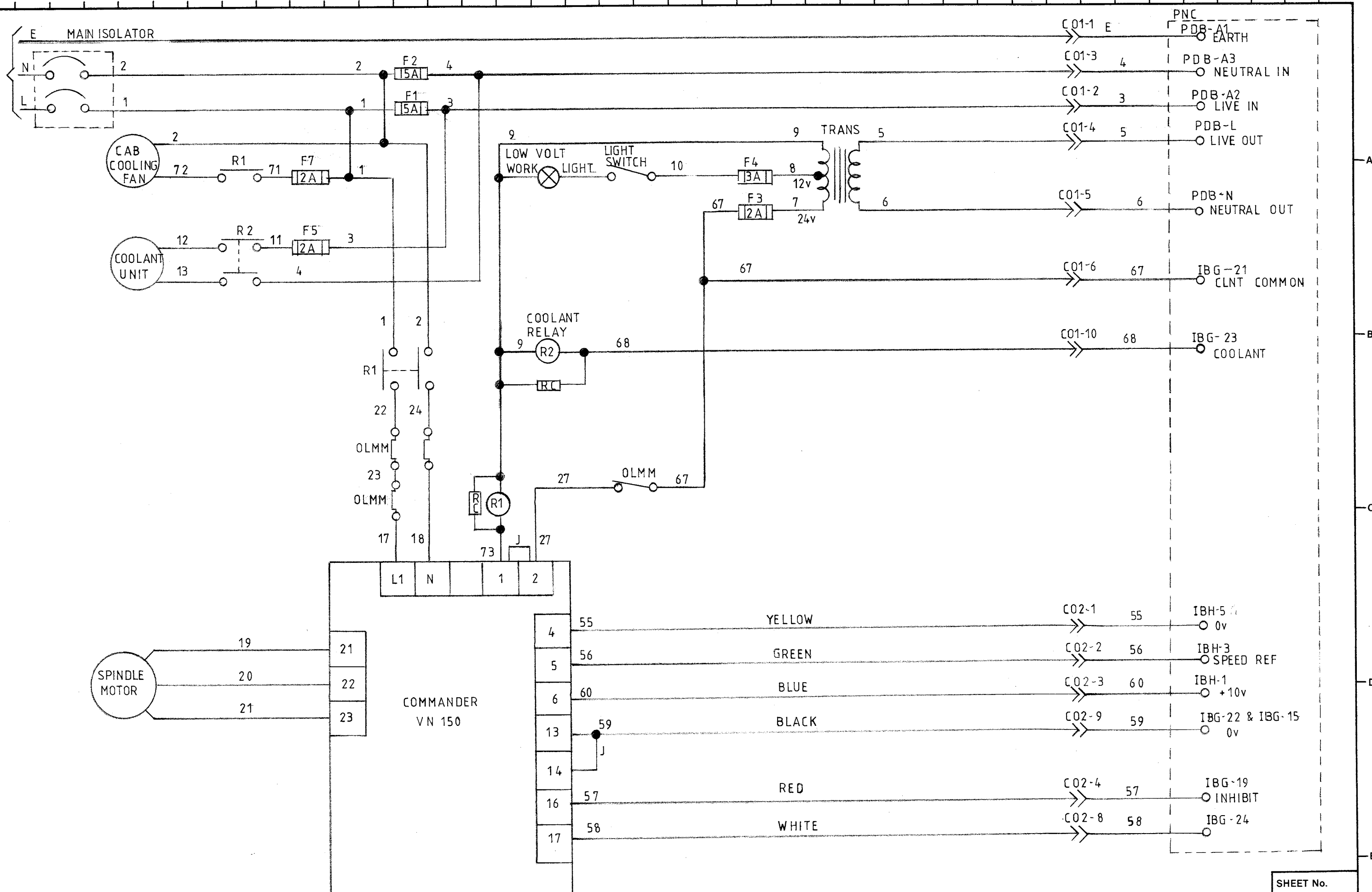
# COMMANDER

L1	17	1	73
N	18	2	27
		3	
		4	55
		5	56
		6	60
		13	59
		14	59
21	19	15	
22	20	16	57
23	21	17	58



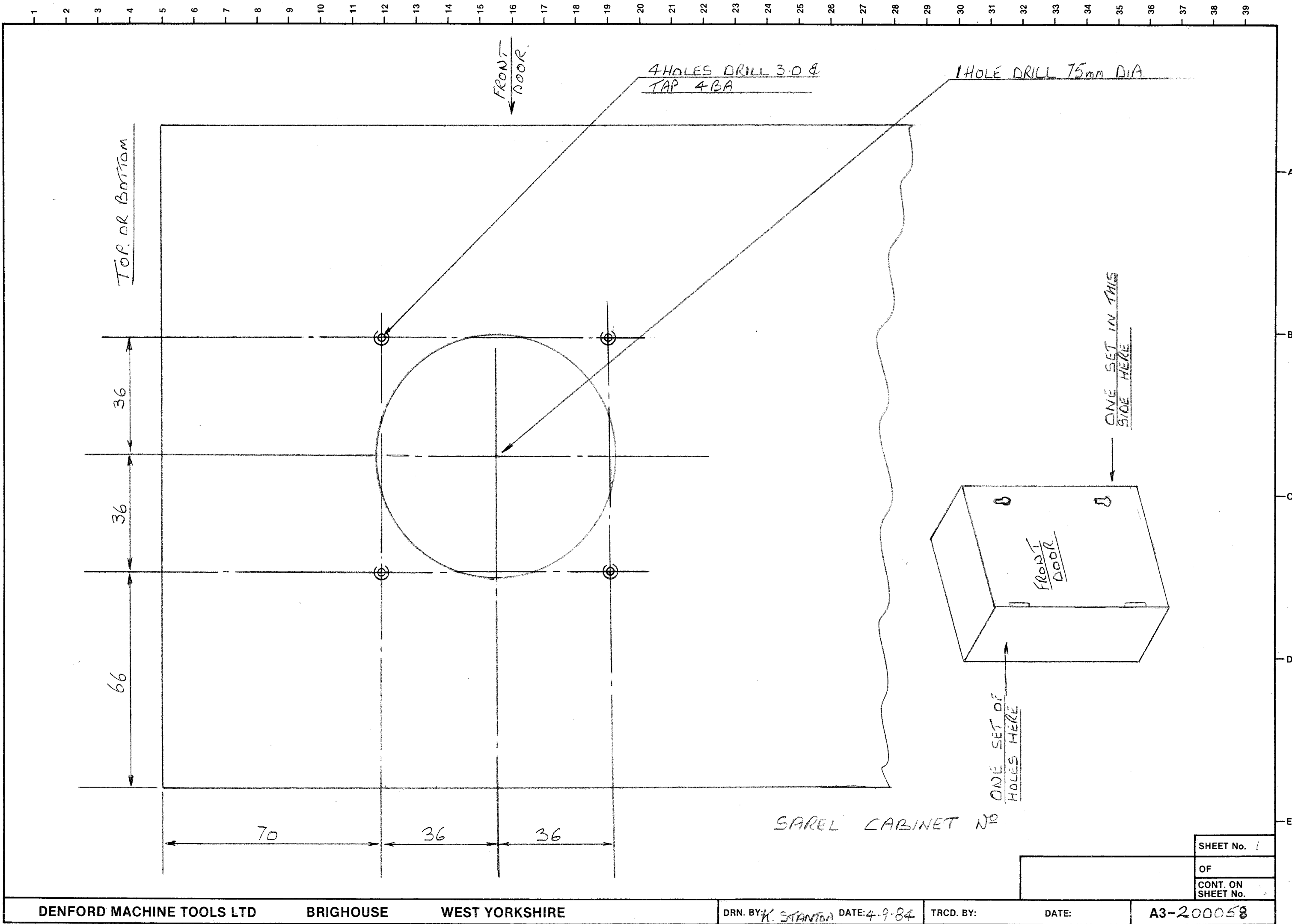
EASIMILL 3 (1PH COMMANDER)  
MAGNETIC PNL WIRING DIA

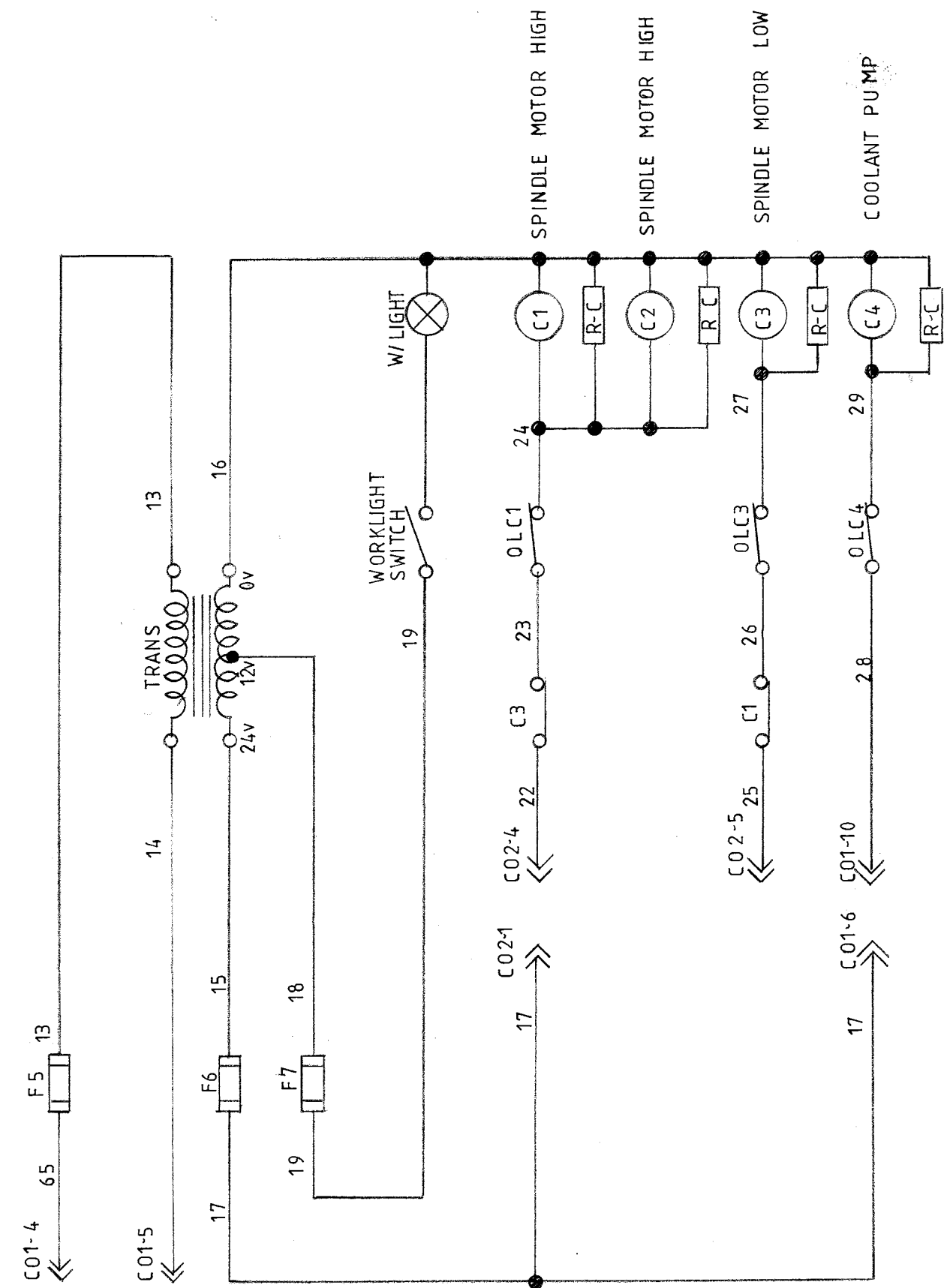
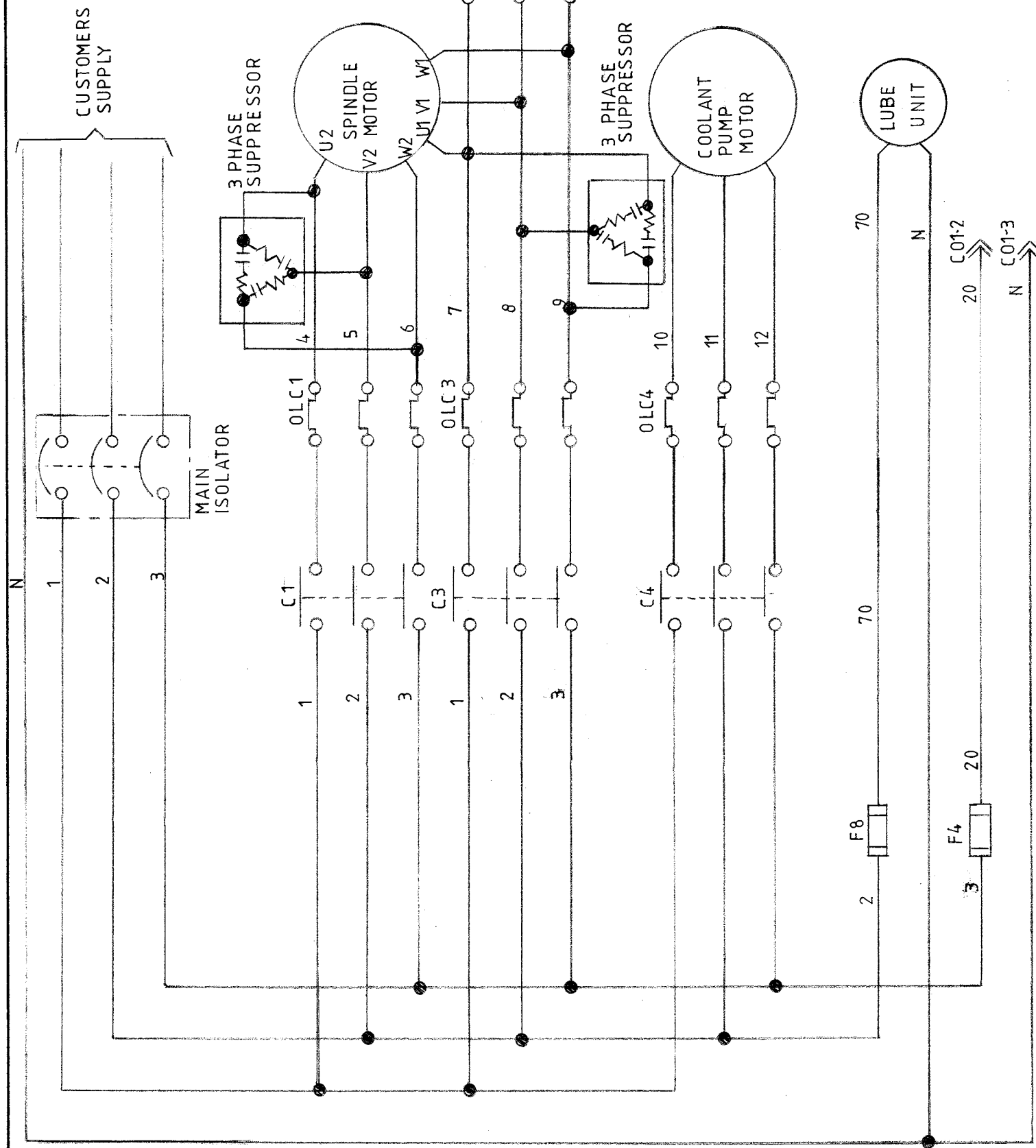
SHEET No.  
OF  
CONT. ON  
SHEET No.



EASIMILL 3 (1PH COMMANDER)  
WIRING DIAGRAM SCHEM. N°1

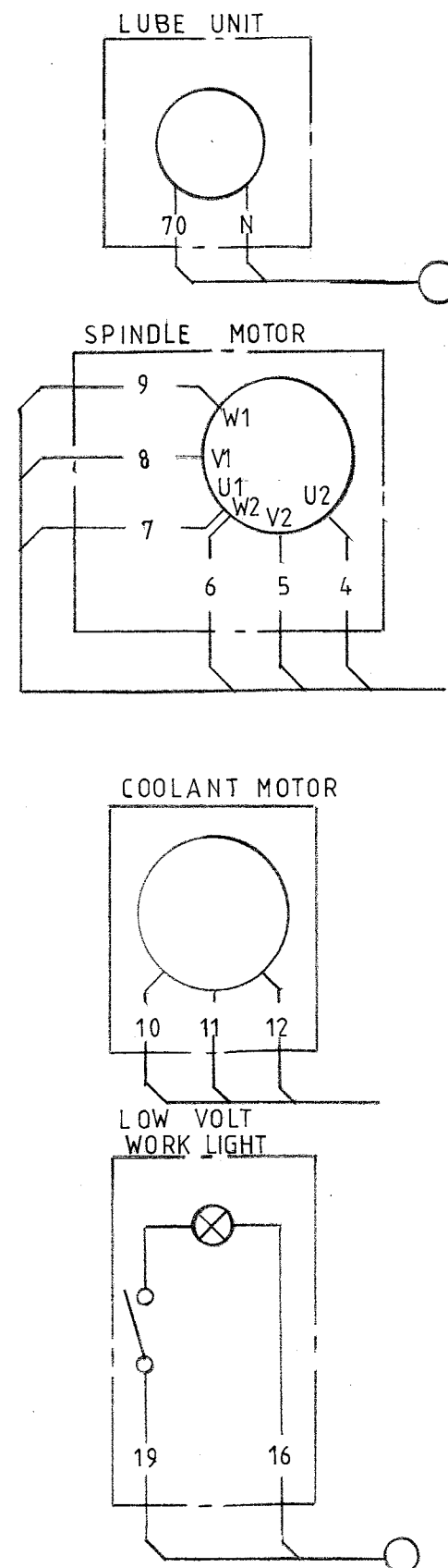
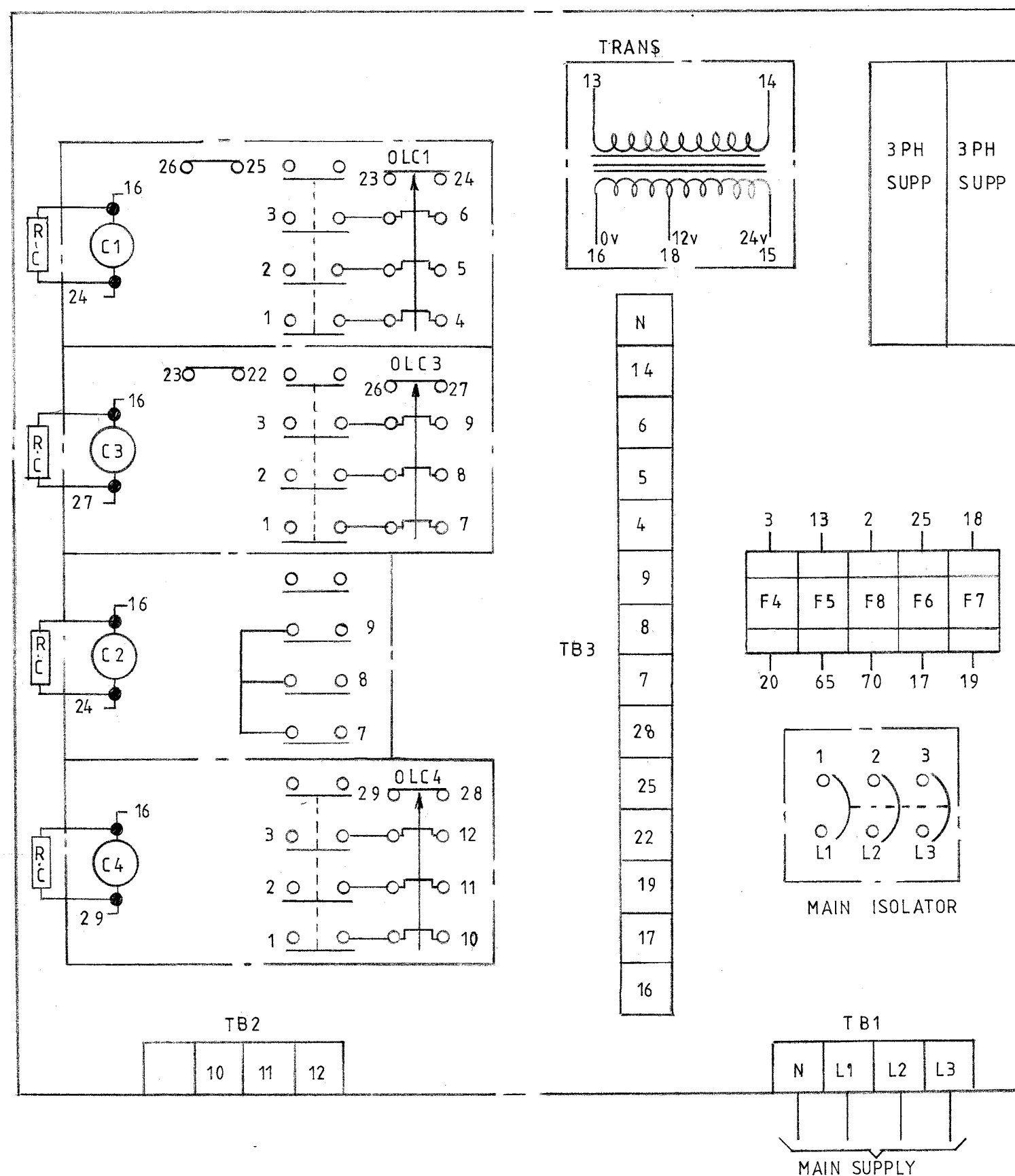
SHEET No.  
OF  
CONT. ON  
SHEET No.



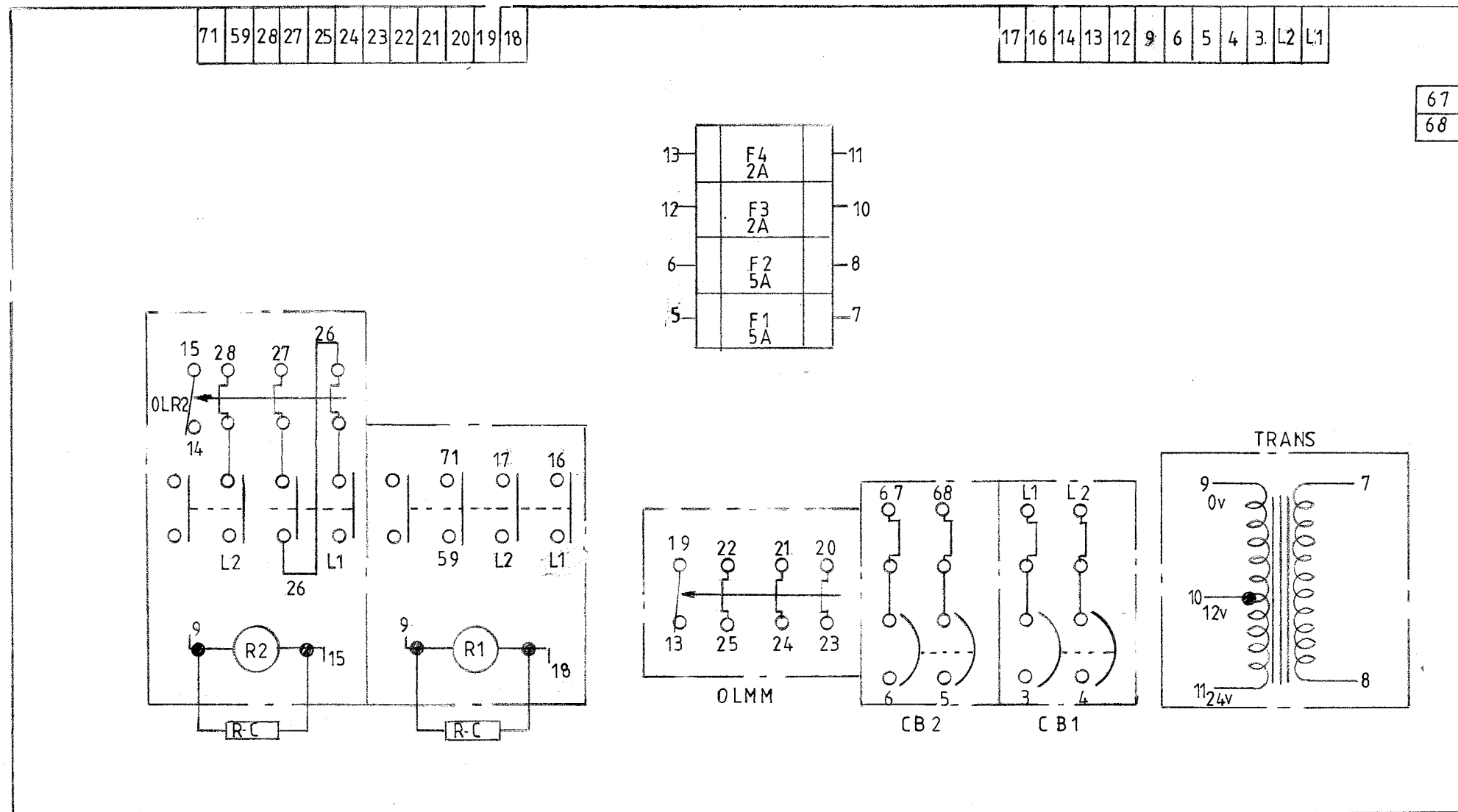


EASIMILL 3 (2SP) WIRING  
 DIAGRAM SCHEMATIC N°1  
 WITH AUTO LUBE.

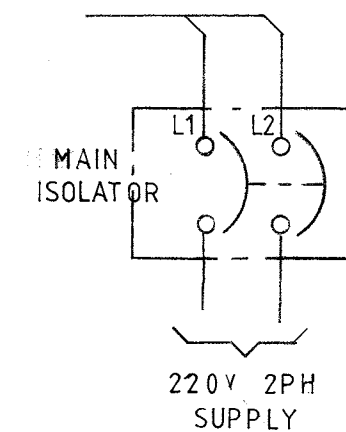
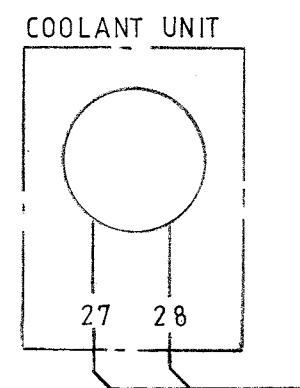
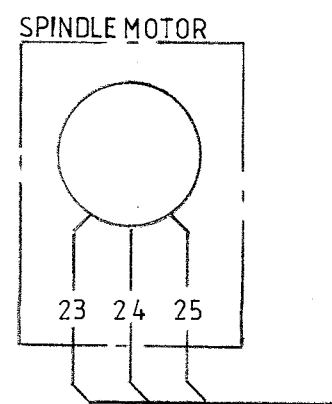
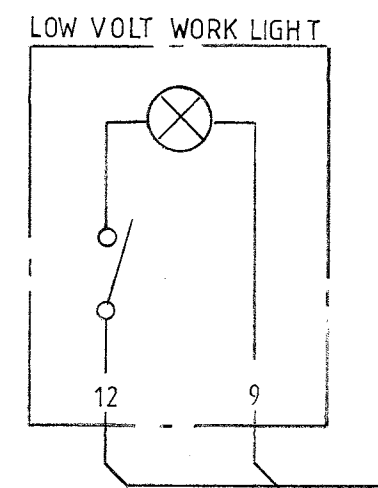
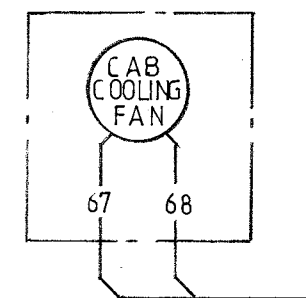
SHEET No.  
 OF  
 CONT. ON  
 SHEET No.



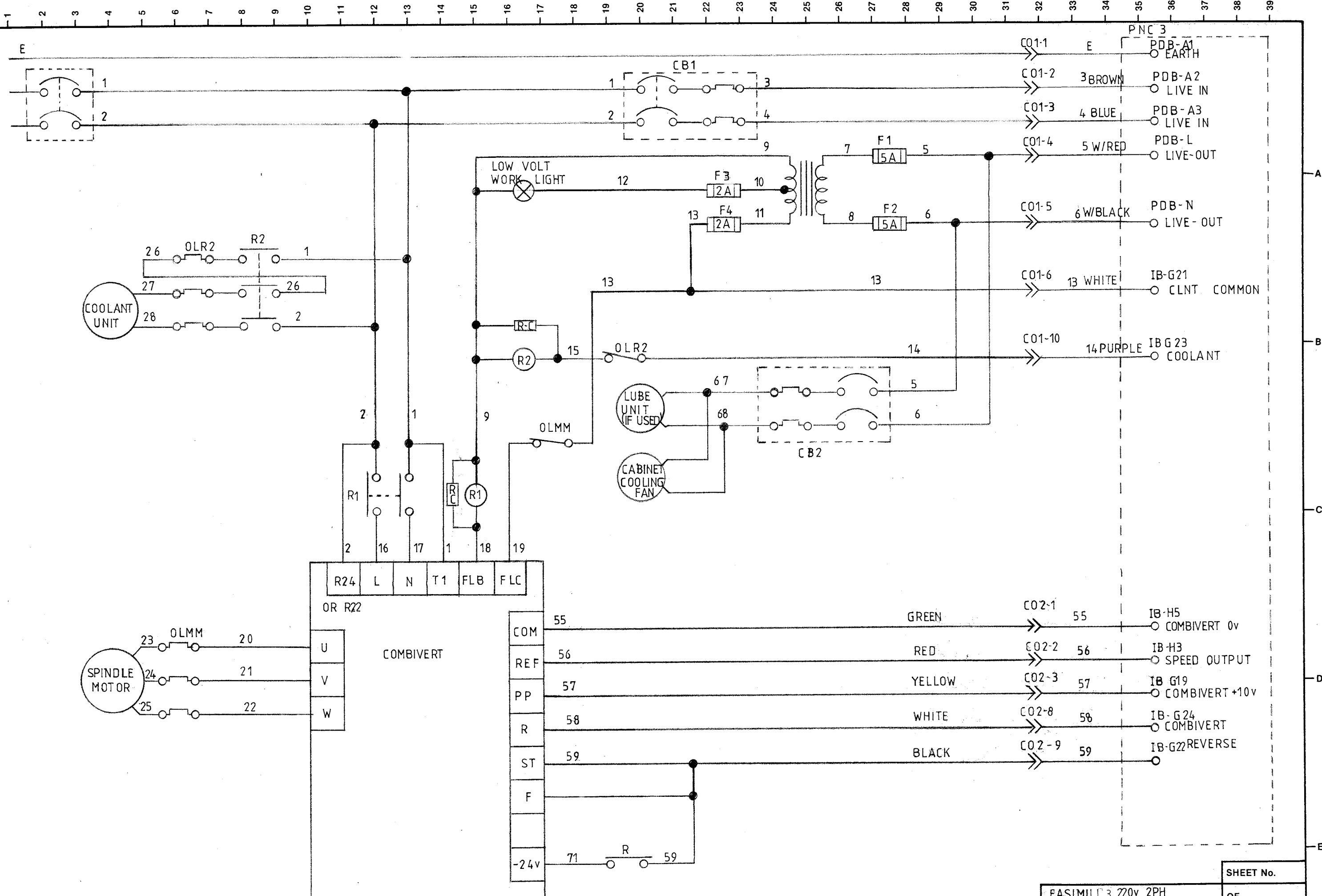
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67  
68

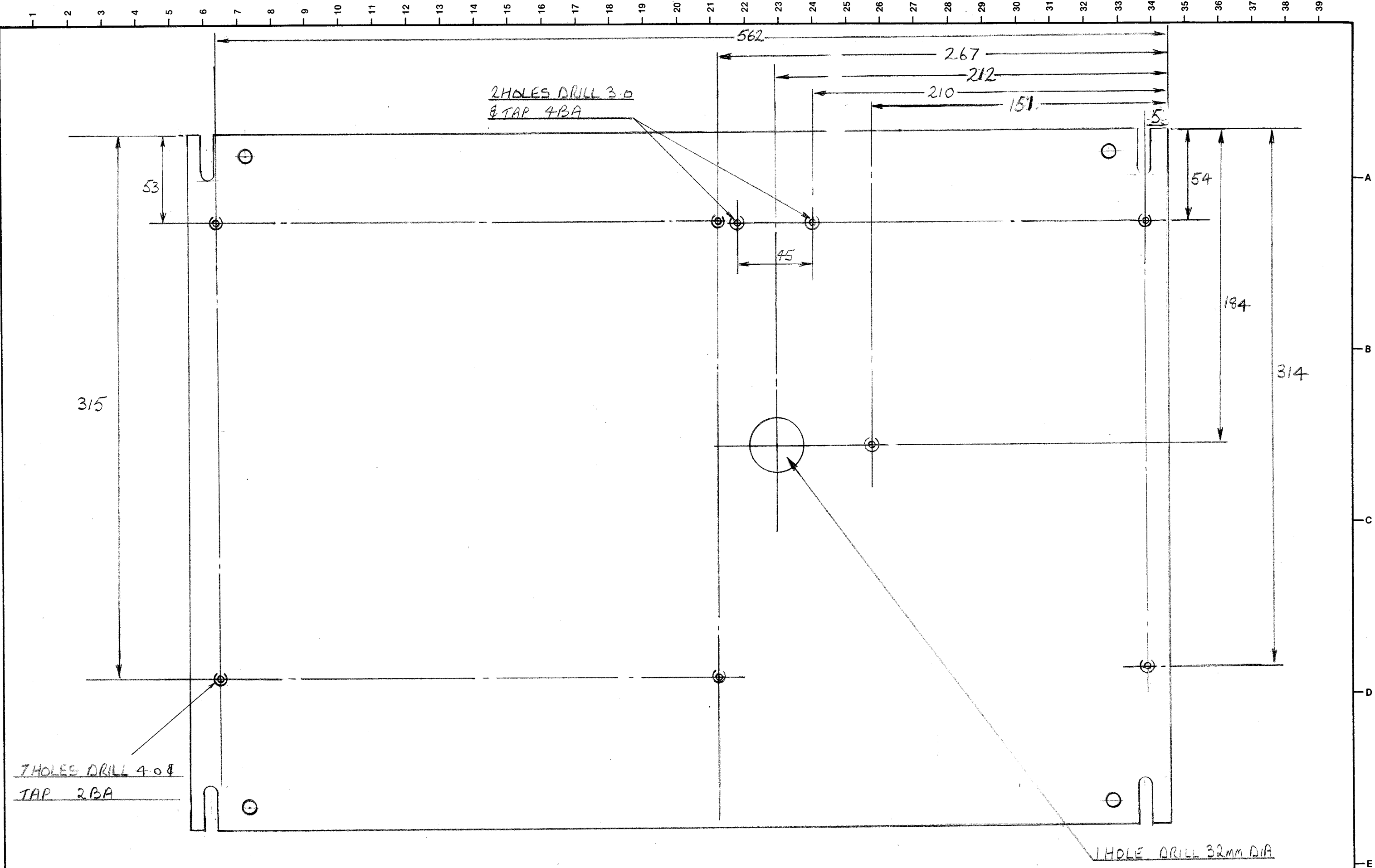


A  
B  
C  
D  
E



EASIMILL 3 220v 2PH  
WIRING DIAGRAM SCHEMATIC  
N° 1

SHEET No.  
OF  
CONT. ON  
SHEET No.



HALF SCALE

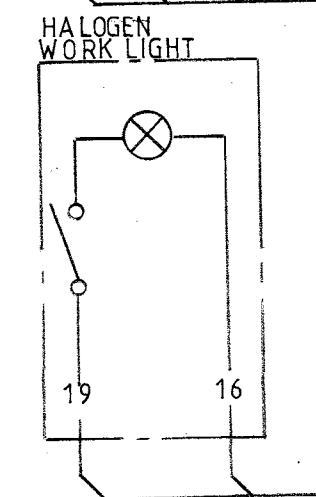
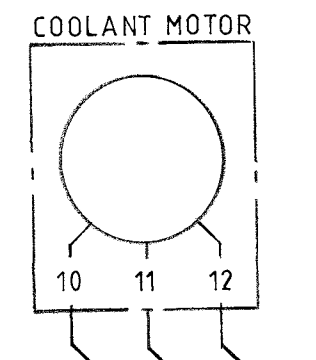
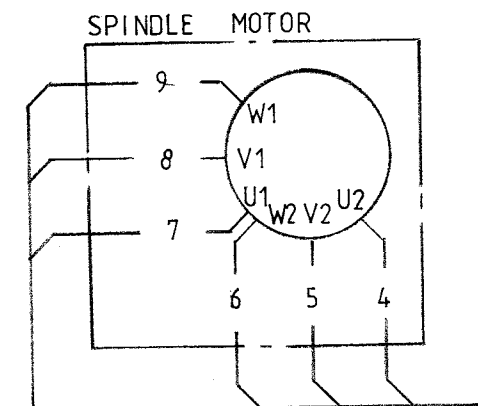
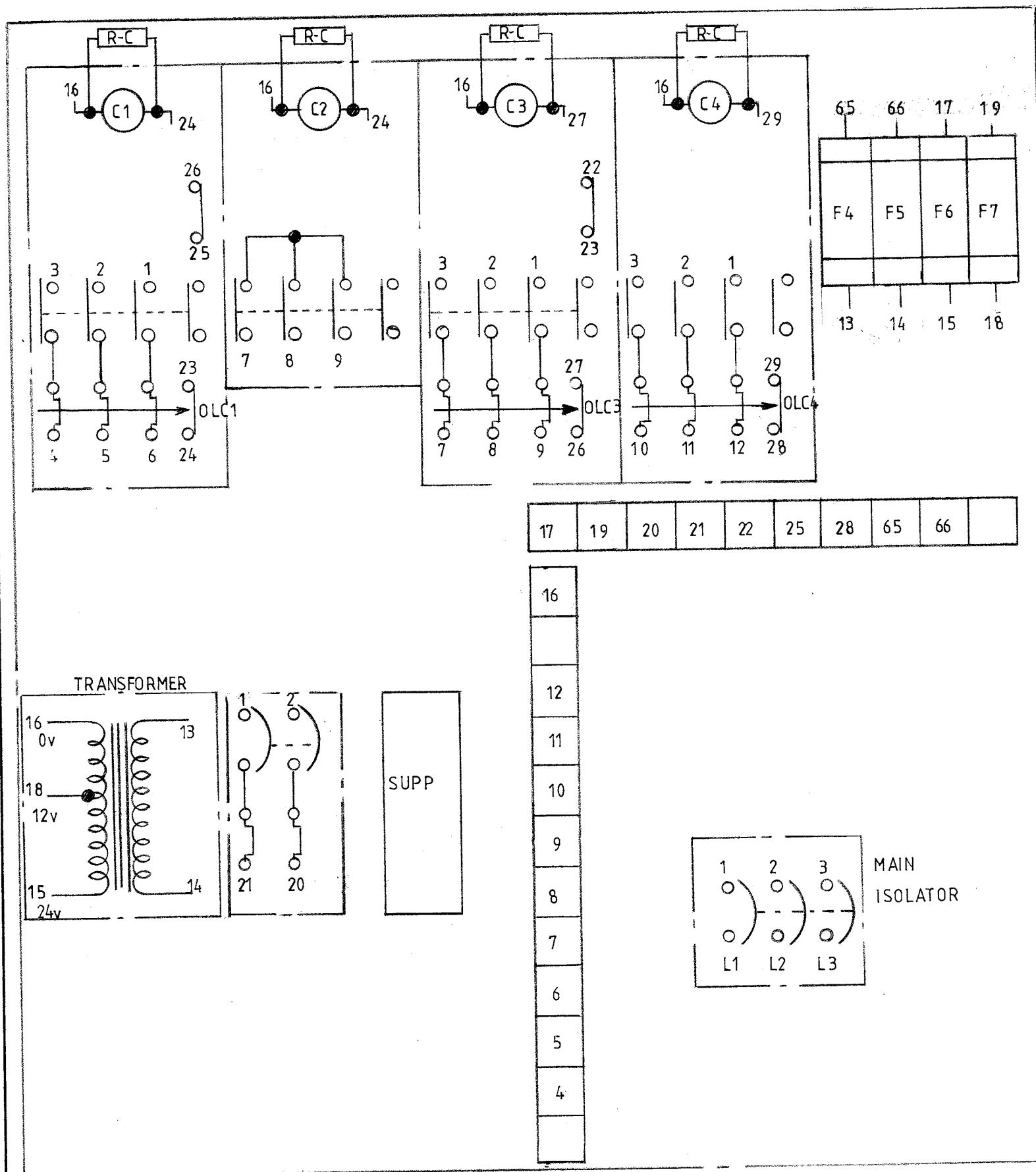
SAREL PANEL PLATE N° 5226

EASIMILL VARISPEED  
PANEL PLATE

SHEET No.

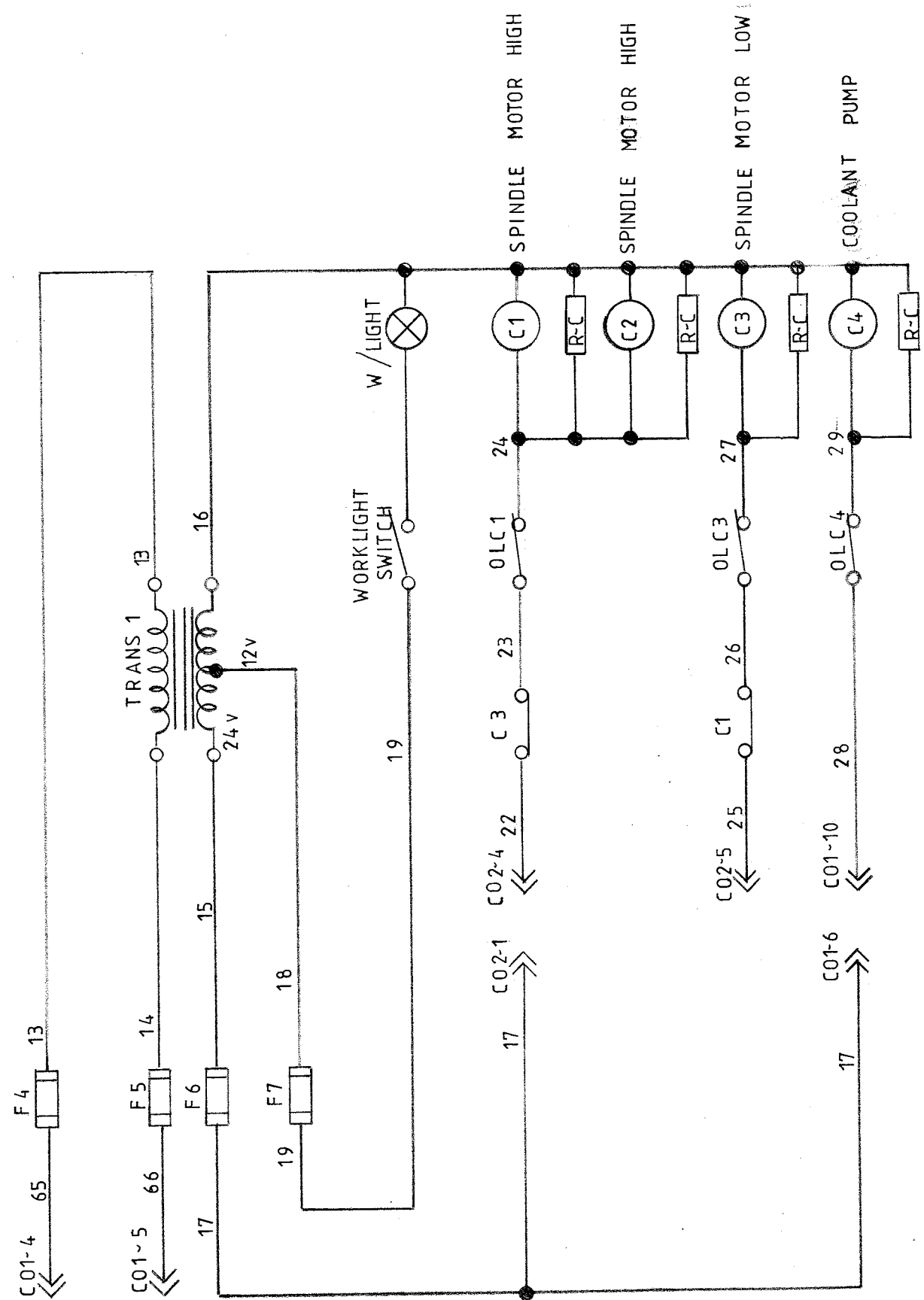
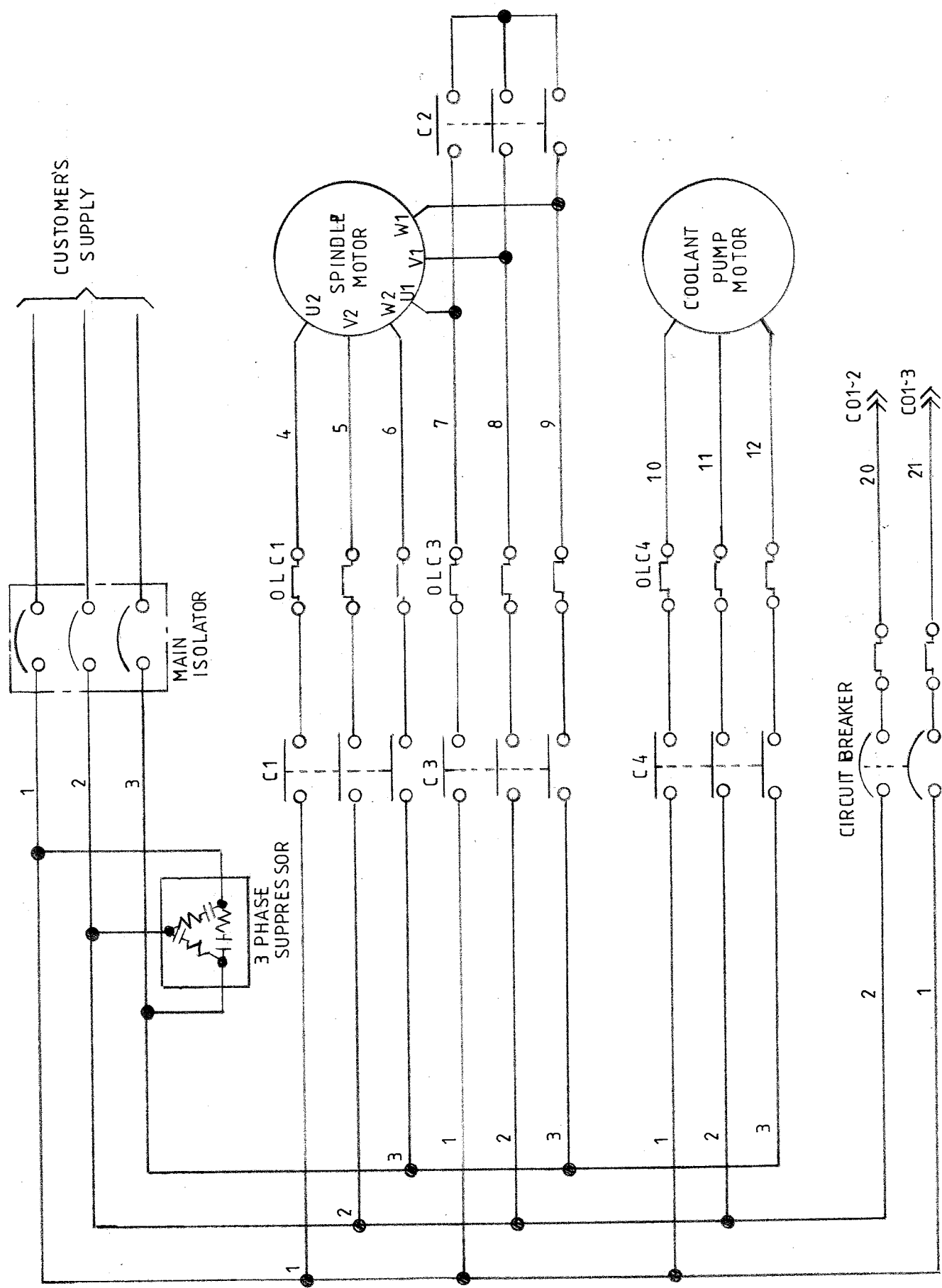
OF

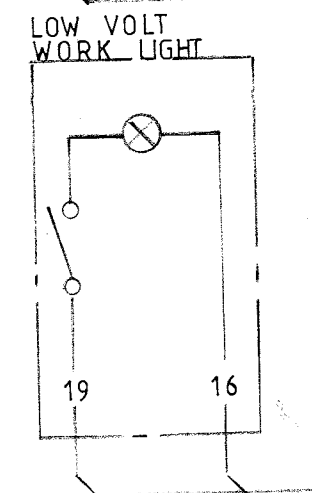
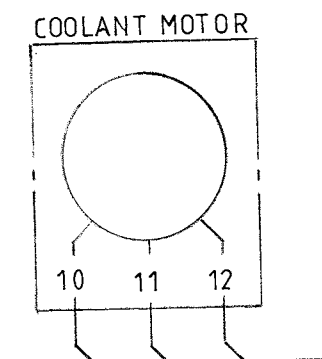
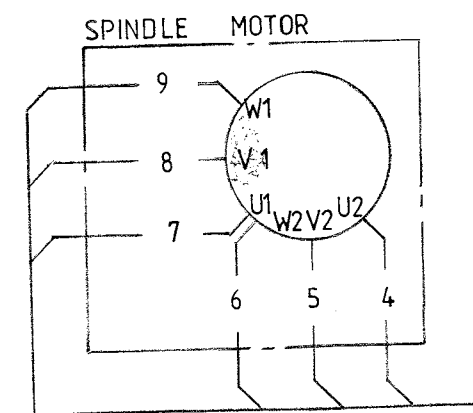
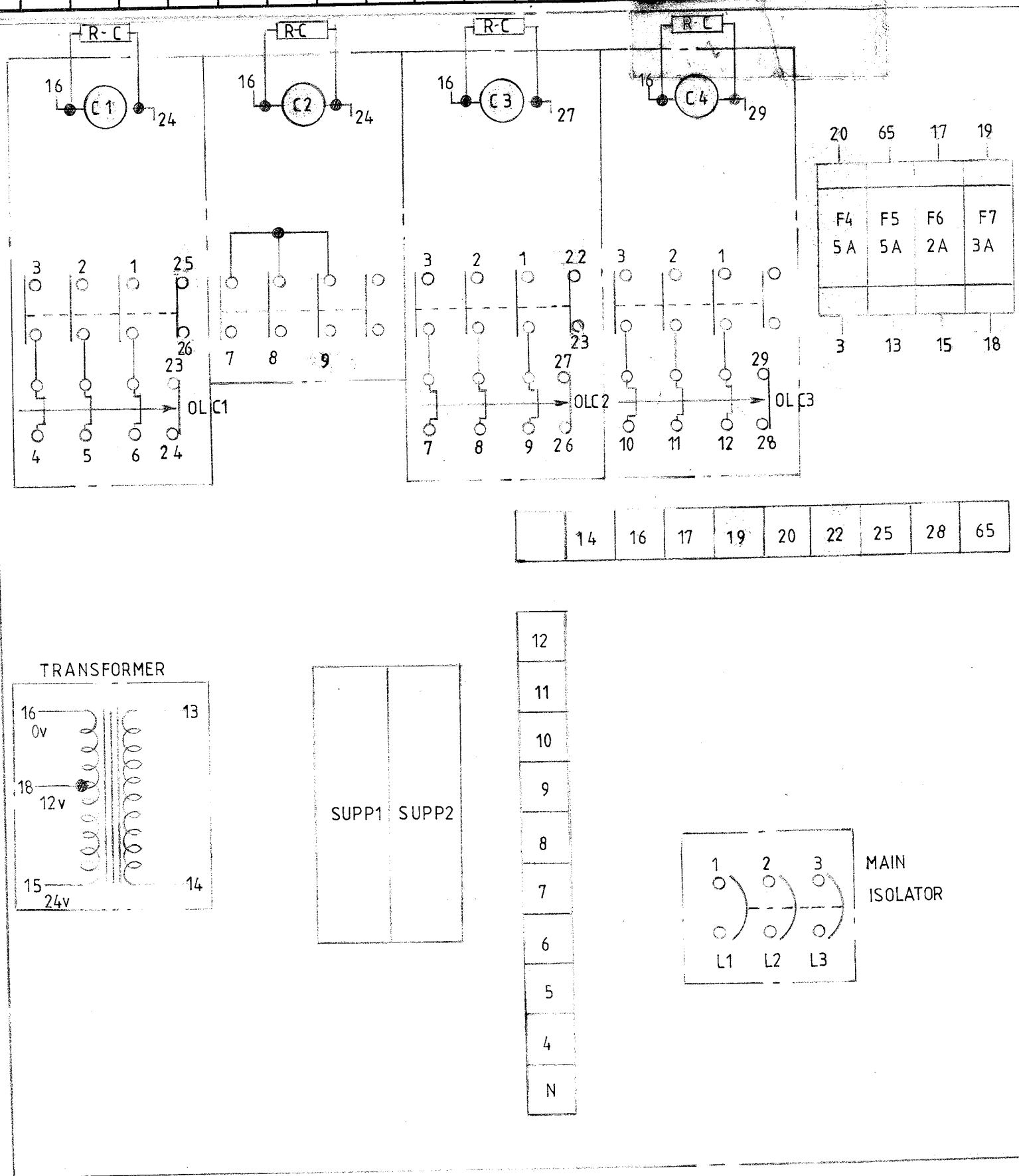
CONT. ON  
SHEET No.



EASIMILL3 WIRING DIAGRAM  
MAGNETIC PANEL 220V ONLY

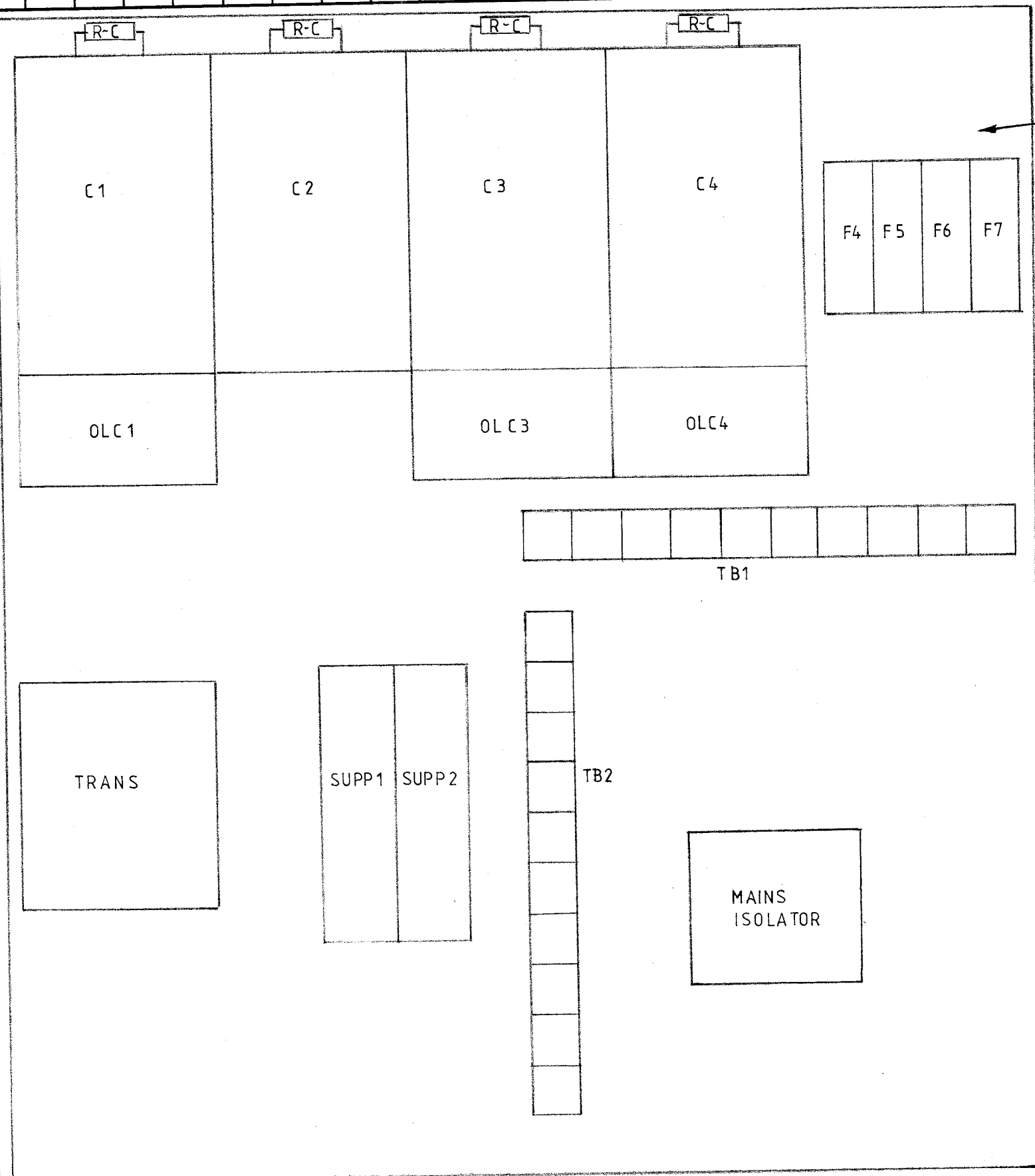
SHEET No.  
OF  
CONT. ON  
SHEET No.





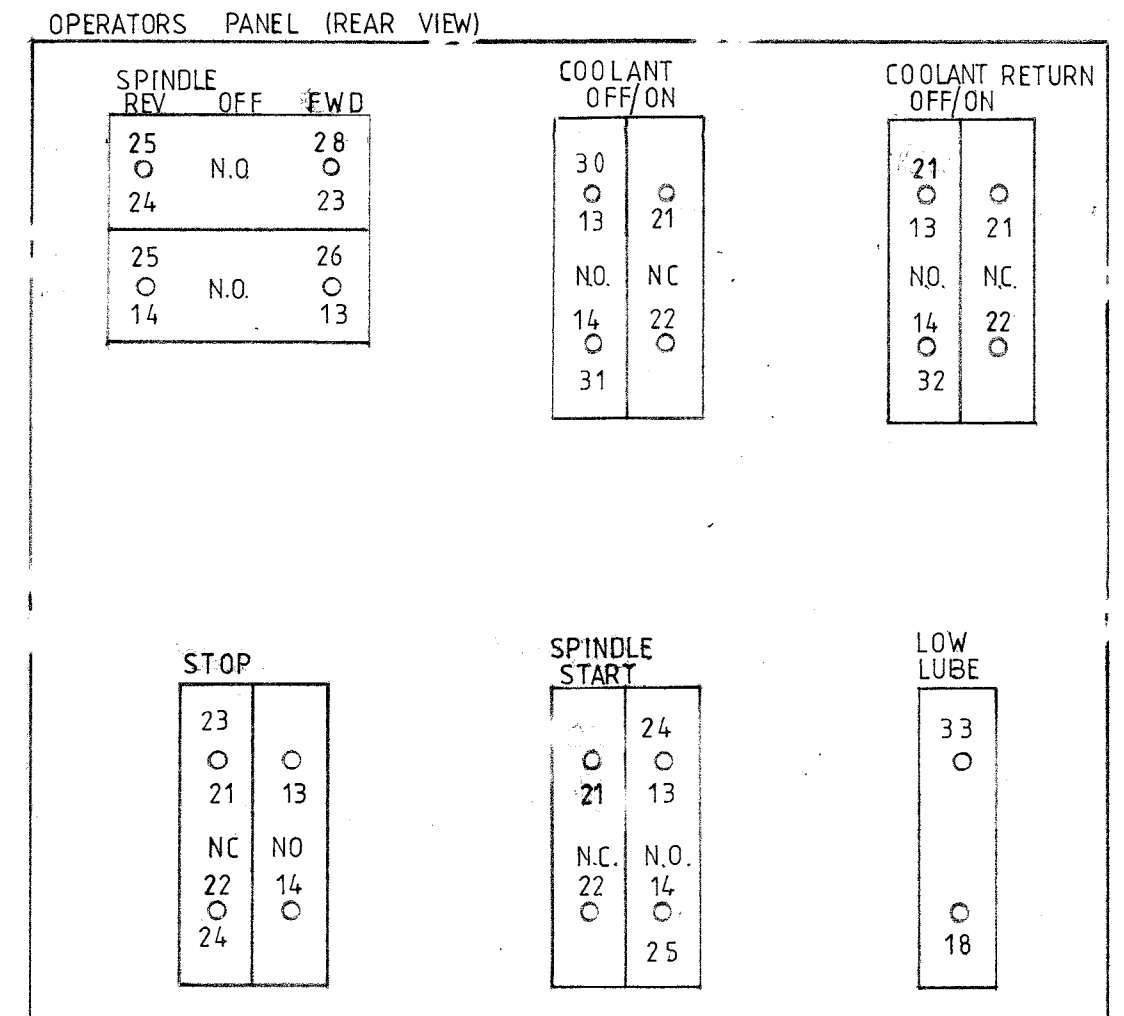
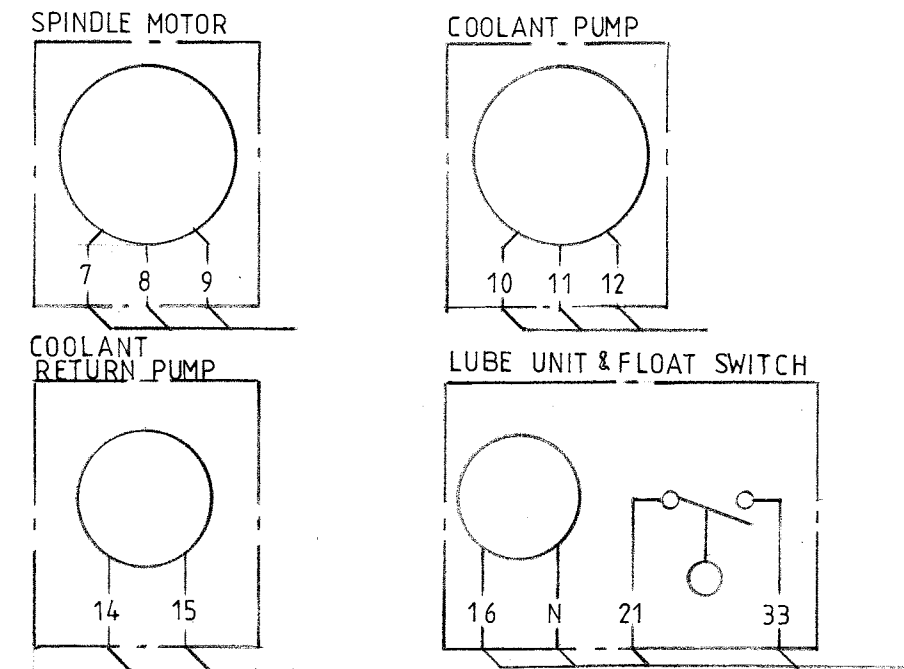
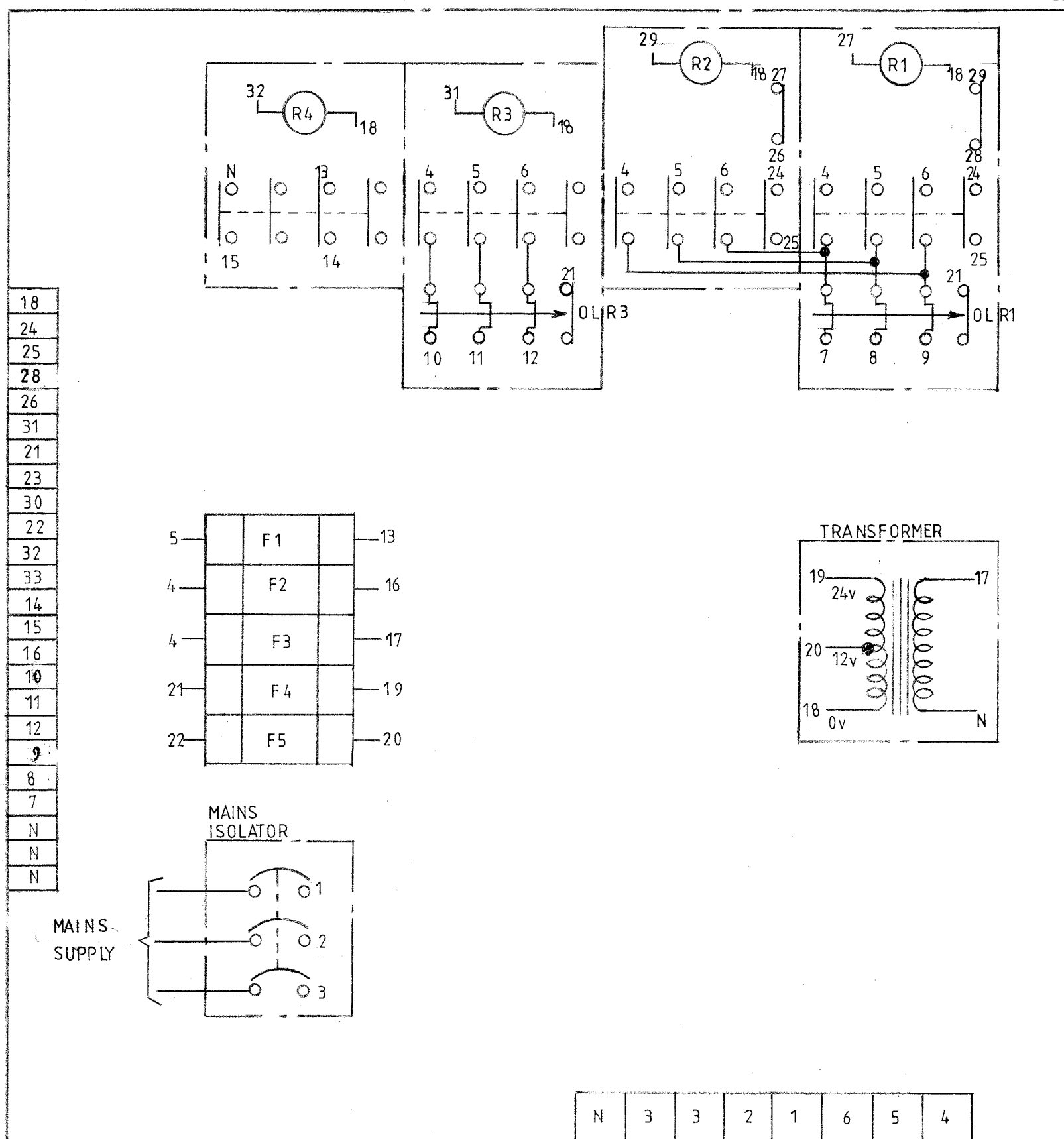
EASIMILL 3 WIRING DIAGRAM  
MAGNETIC PANEL

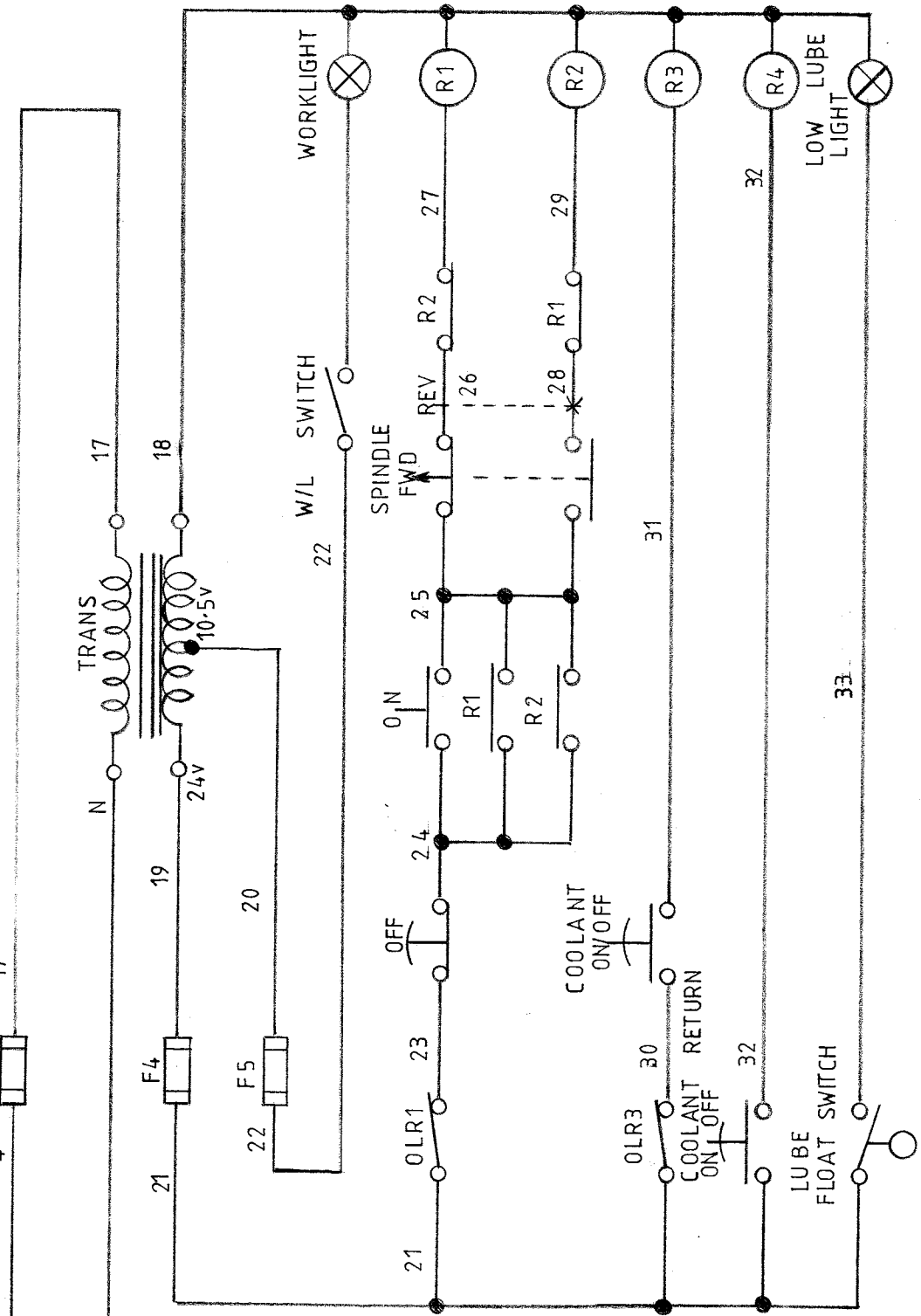
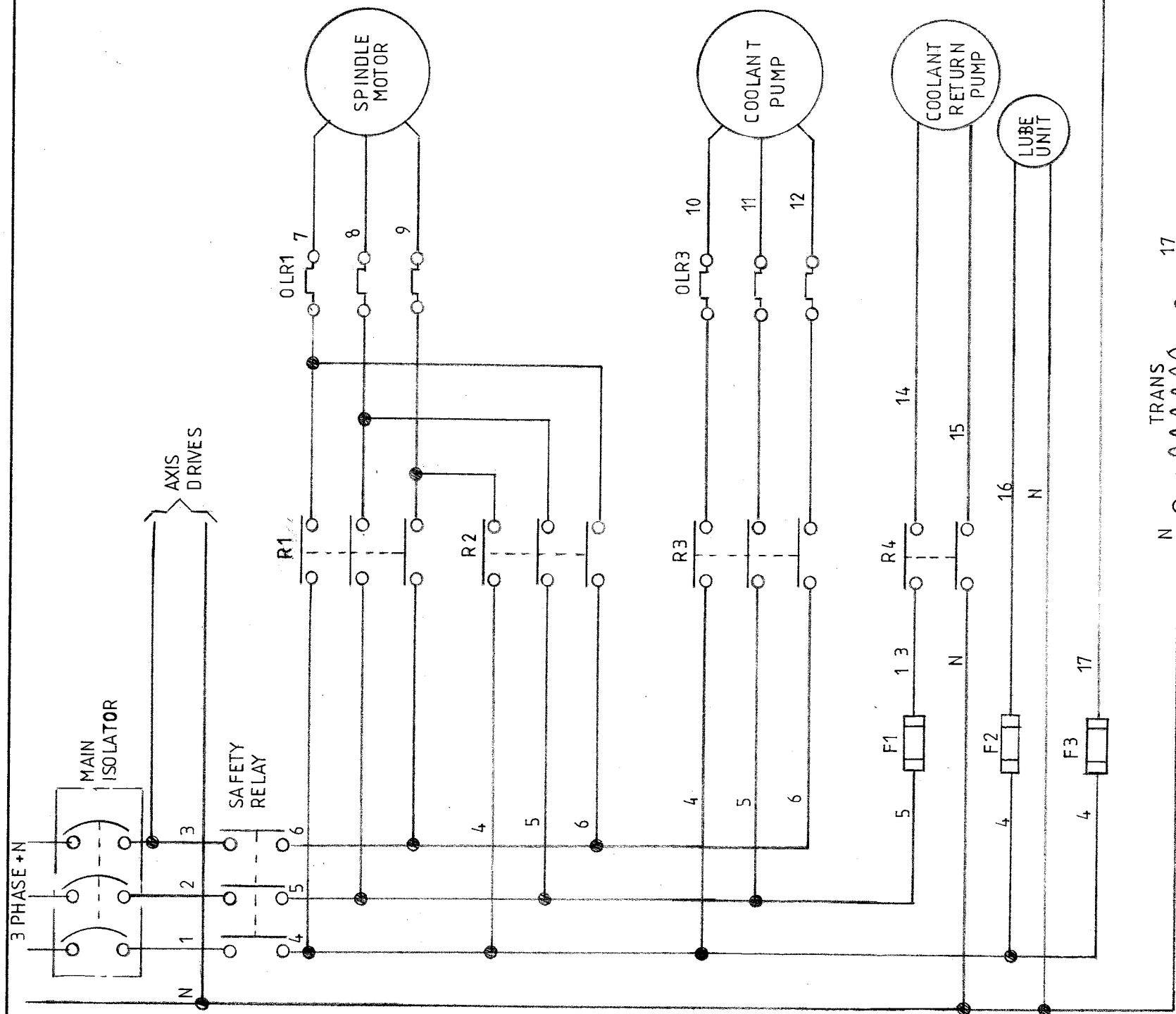
SHEET No.  
OF  
CONT. ON  
SHEET No.



### PARTS LIST

ITEM N°	W/D DEG N	DESCRIPTION	MANUFACTURER AND CATALOGUE NUMBER	QTY
1	P	PANEL PLATE	SAREL CAT N° 5202 DRILLED TO 1A3 200048	1
2	C1-C3	CONTACTOR	BBC CAT N° B9-30-01-24v	2
3	C2-C4	CONTACTOR	BBC CAT N° B9 30 10 24v	2
4	OLC1 OLC3	OVER LOAD RELAY	BBC CAT N° T25 2-8 TO 4-1A	2
5	OLC4	OVERLOAD RELAY	BBC CAT N° T25 0-28 TO 0-42A	1
6	TRANS	TRANSFORMER	220v TO 12/24v (1PH)	1
7	F4 F5 F6 F7	FUSE FITTING	PHONIX CAT N° US1G	4
8	F4 F5 F6 F7	FUSE BRIDGE	PHONIX CAT N°	4
9		END STOP	PHONIX CAT N° E-UK	2
10	F4 F5	CARTRIDGE FUSE 5A		2
11	F6	CARTRIDGE FUSE 2A		1
12	F7	CARTRIDGE FUSE 3A		1
13	MAINS ISOLATOR	MAINS ISOLATOR	STROMBERG OETL 40D1	1
14	TB1	TERMINAL BLOCK	KUPPON CAT N° 24 35-2	10
16	TB2	TERMINAL BLOCK	KLIPPON CAT N° 24 35-2	10
17	SUPP1 SUPP2	3PH SUPPRESSOR	PLASTICS TECHNOLOGY	2
18	RC	ARC SUPPRESSOR		4
19		DIN RAIL		

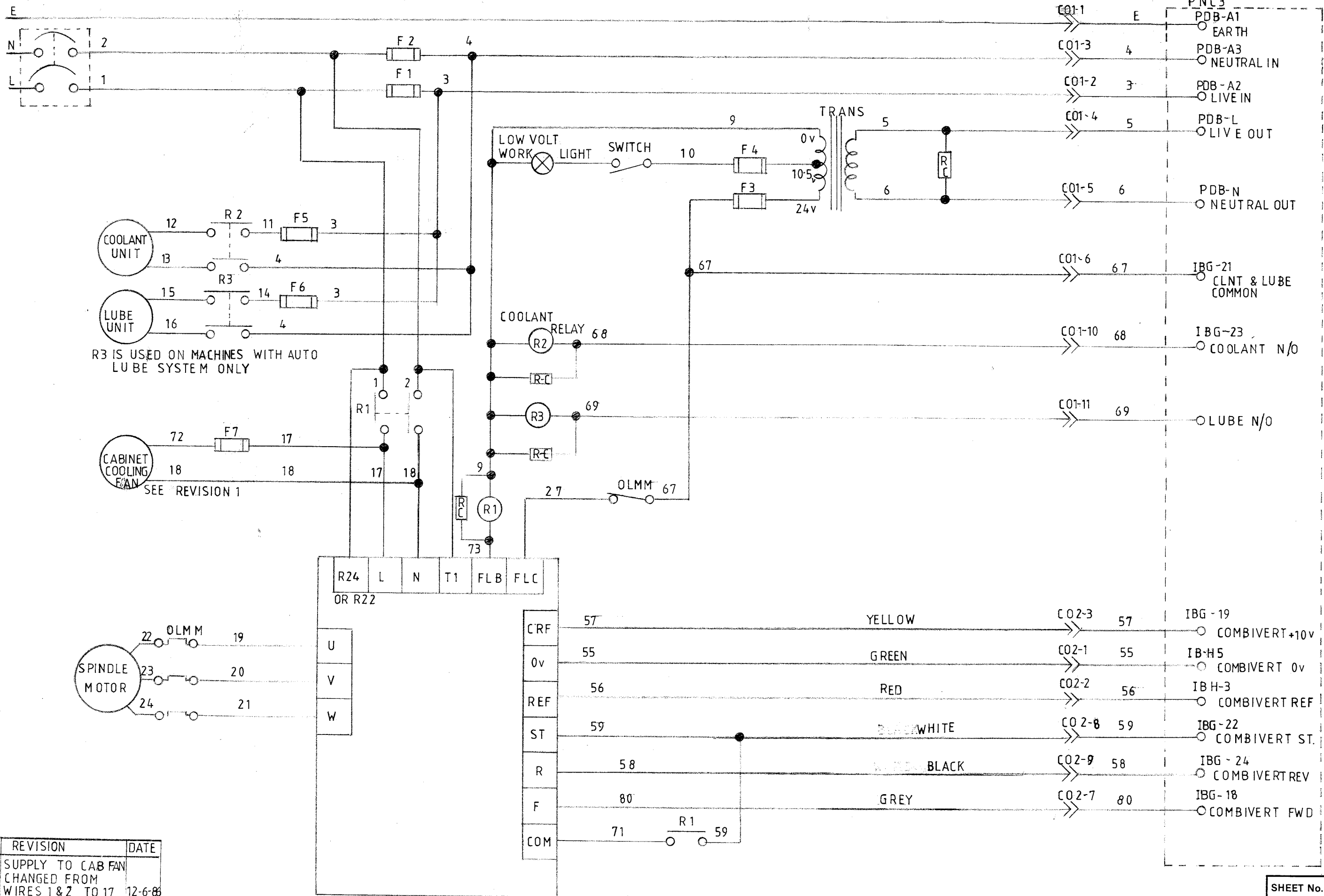




CRUSADER  
WIRING DIAGRAM.



MS  
AUP  
NP  
SL  
Y



R3 IS USED ON MACHINES WITH AUTO LUBE SYSTEM ONLY

SEE REVISION 1

Nº	REVISION	DATE
1	SUPPLY TO CAB FAN CHANGED FROM WIRES 1 & 2 TO 17 & 18	12-6-85

EASIMILL 3 (COMBIVERT 1PH) WIRING DIAGRAM SCHEM Nº1 TYPE 53.	SHEET No.
	OF
	CONT. ON SHEET No.

DENFORD MACHINE TOOLS LTD

BRIGHOUSE

WEST YORKSHIRE

DRN. BY K. STANTON

DATE: 2-8-85

TRCD. BY:

DATE:

A3-200079