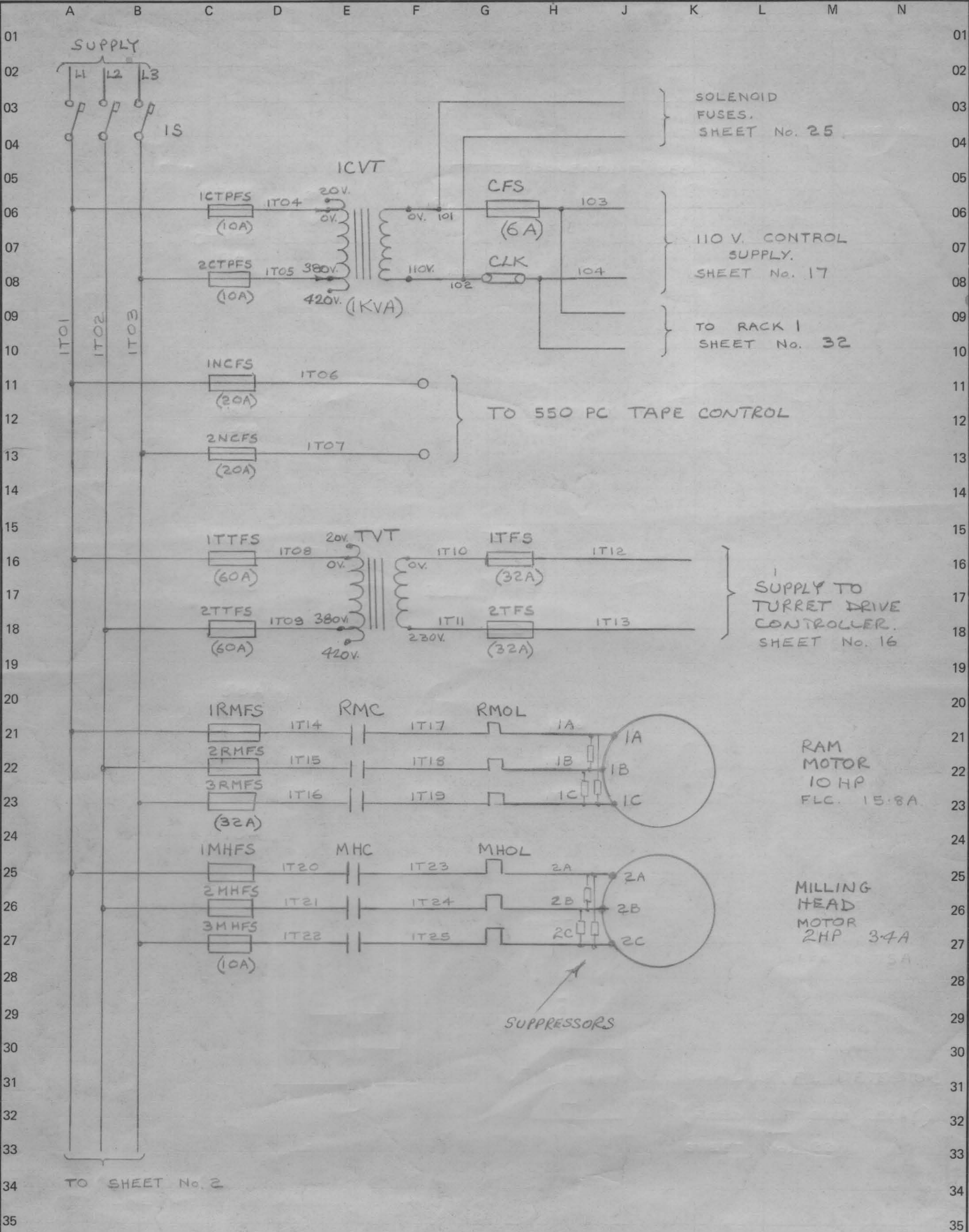
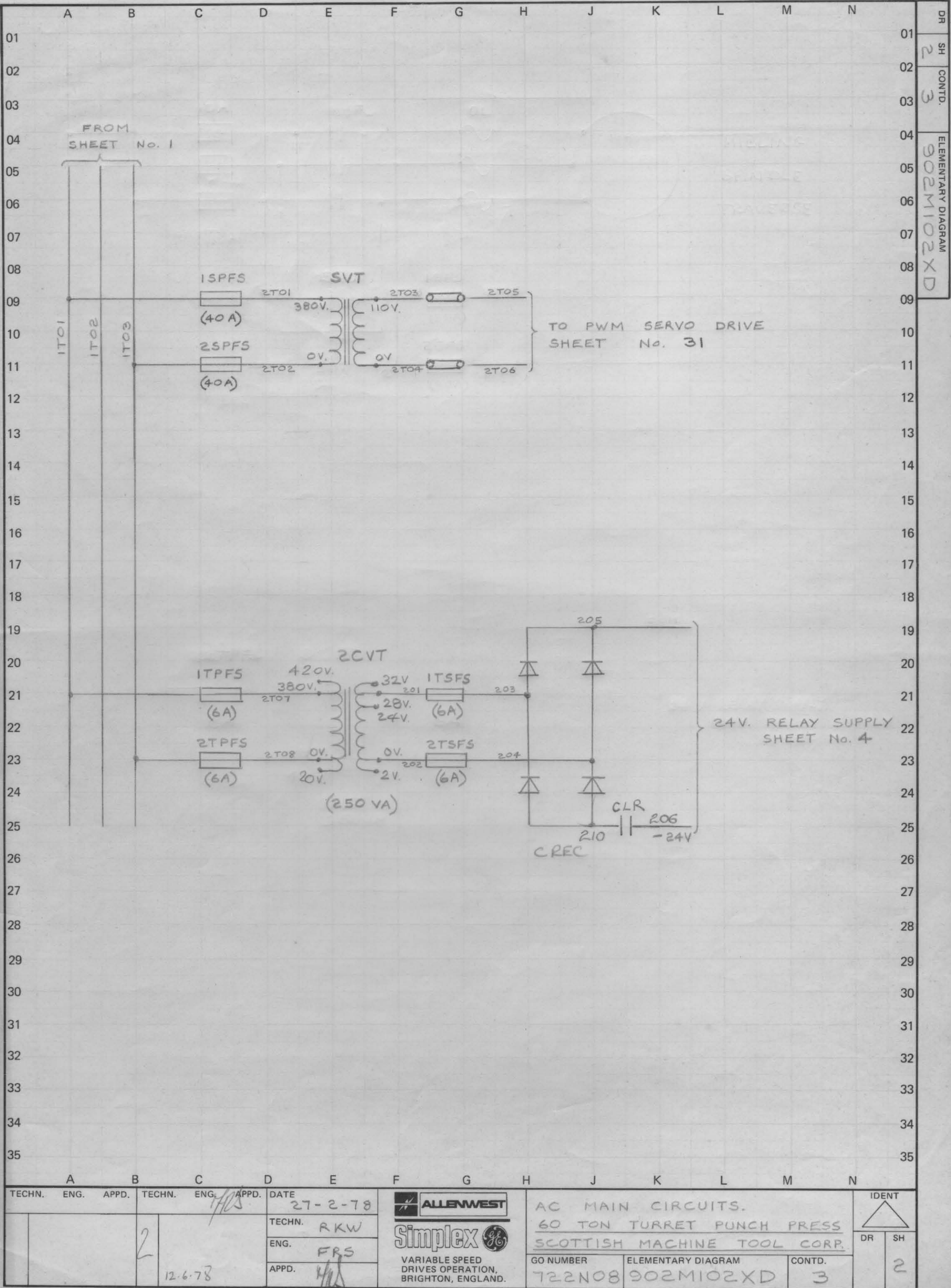
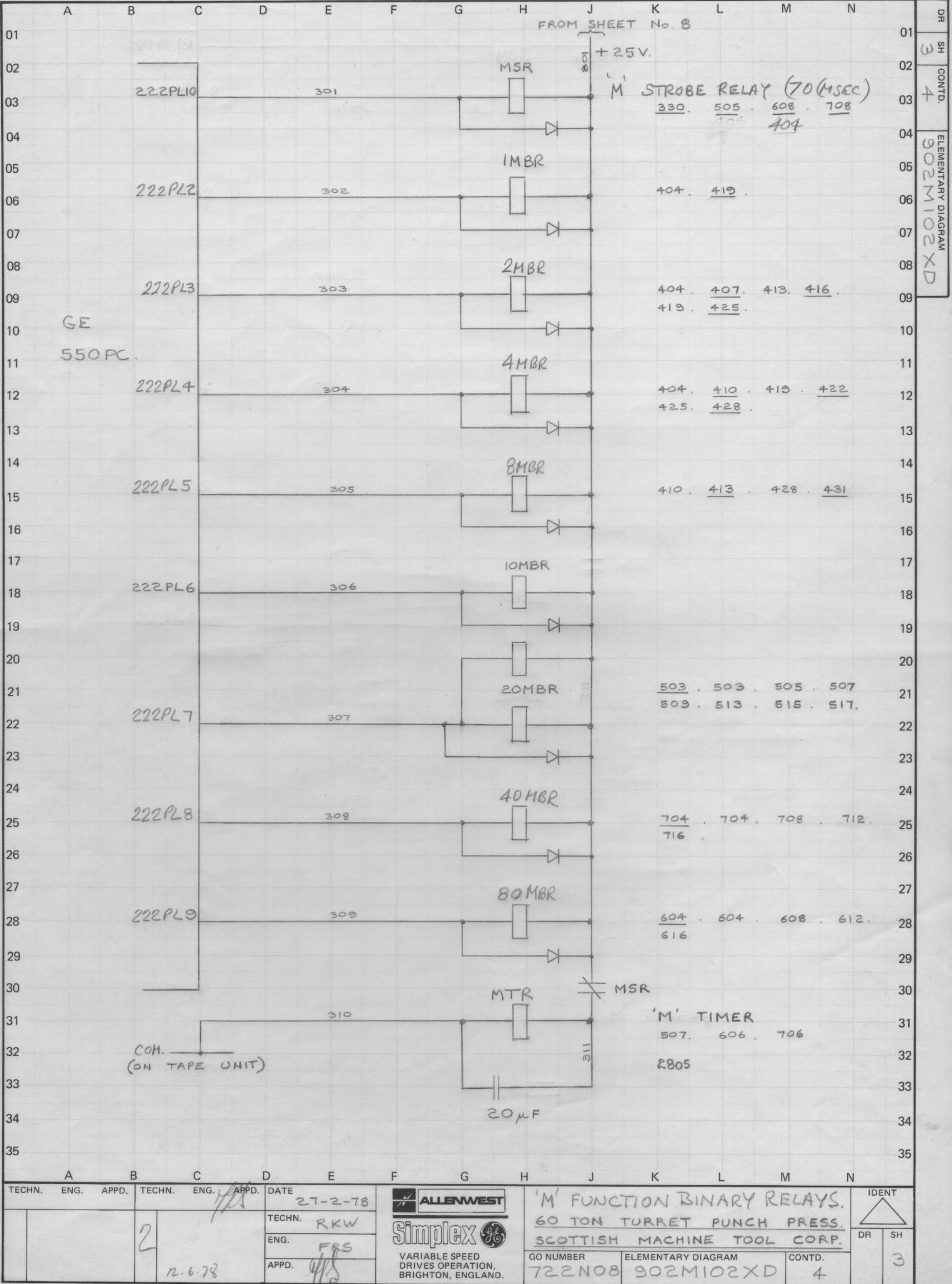


DR
SH
CONTD.
ELEMENTARY DIAGRAM
902M102XD



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE			AC MAIN CIRCUITS.		IDENT	
						27-2-78			60 TON TURRET PUNCH PRESS		DR	
									SCOTTISH MACHINE TOOL CORP.		SH	
							VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		GO NUMBER		CONTD.	
									722N08		1	
									ELEMENTARY DIAGRAM			
									902M102XD			
									2			

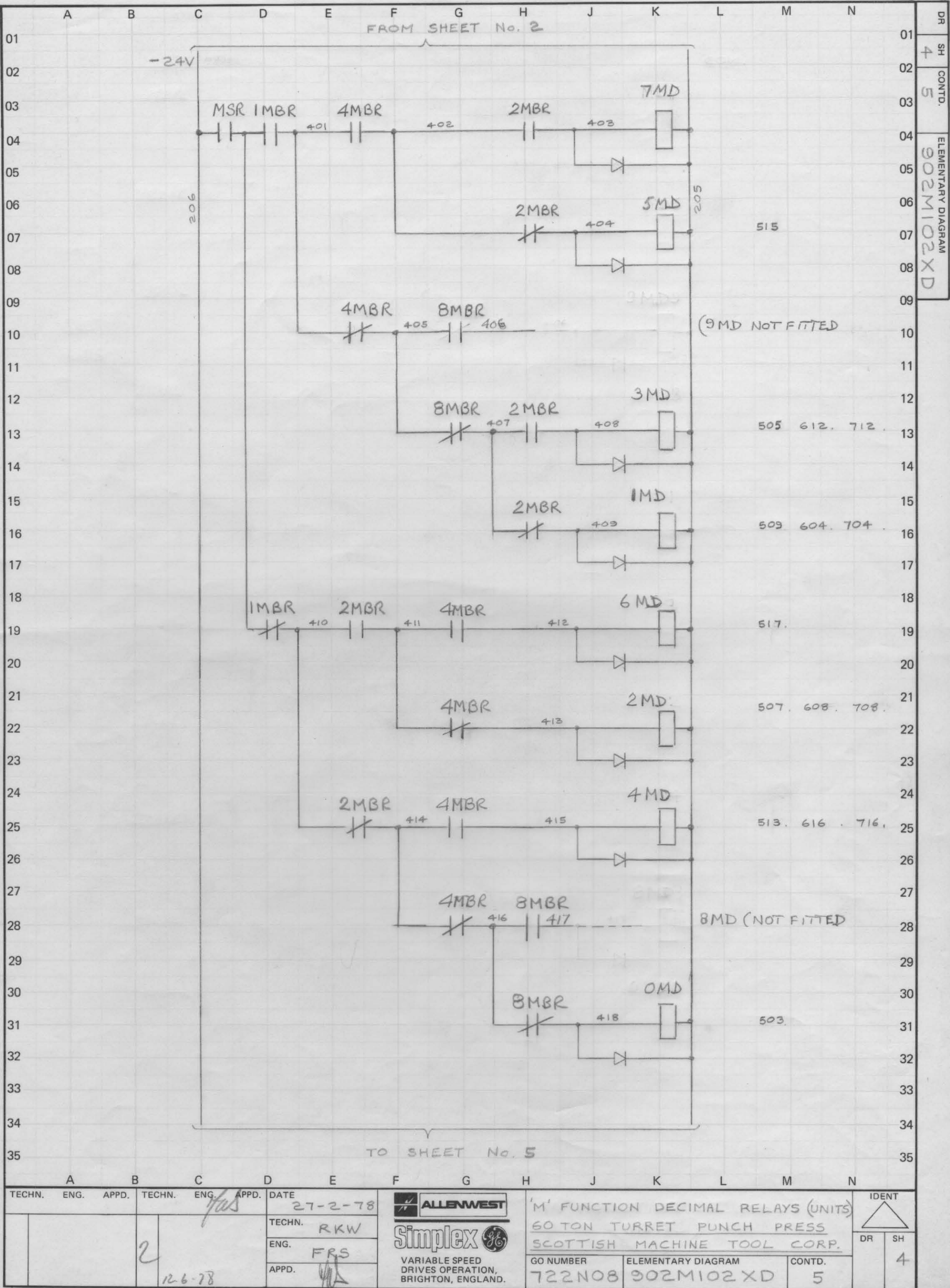




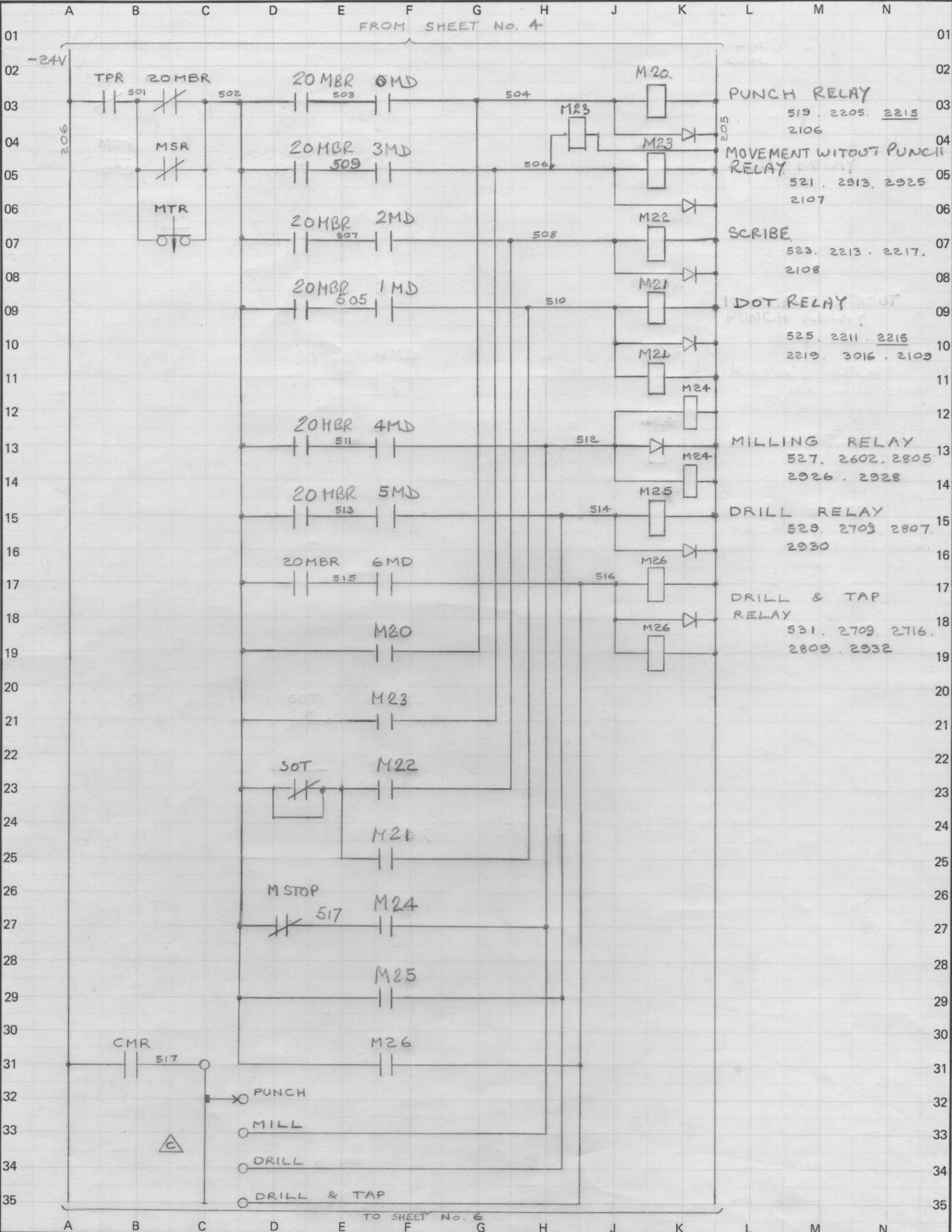
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78		ALLENWEST		'M' FUNCTION BINARY RELAYS.		IDENT	
							TECHN. RKW		Simplex		60 TON TURRET PUNCH PRESS.		DR SH	
							ENG. FRS		VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		SCOTTISH MACHINE TOOL CORP.		3	
							APPD.		GO NUMBER 722N08		ELEMENTARY DIAGRAM 902M102XD		CONTD. 4	

2 12-6-78

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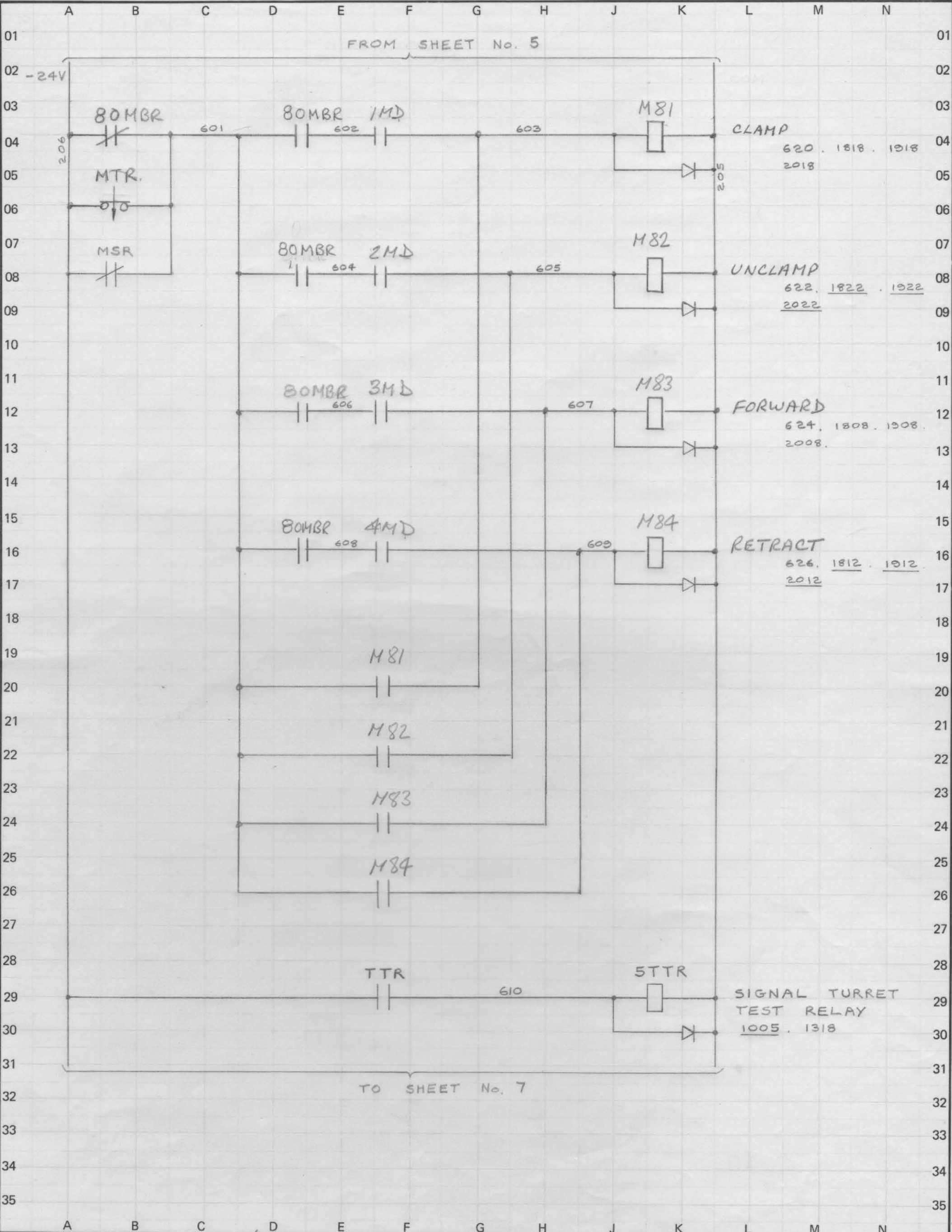


DR SH CONTD. ELEMENTARY DIAGRAM 902M102XD



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	MODE SELECTION RELAYS		IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS		DR SH	
							SCOTTISH MACHINE TOOL CORP.		5	
							GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	
							722N08	902M102XD	6	

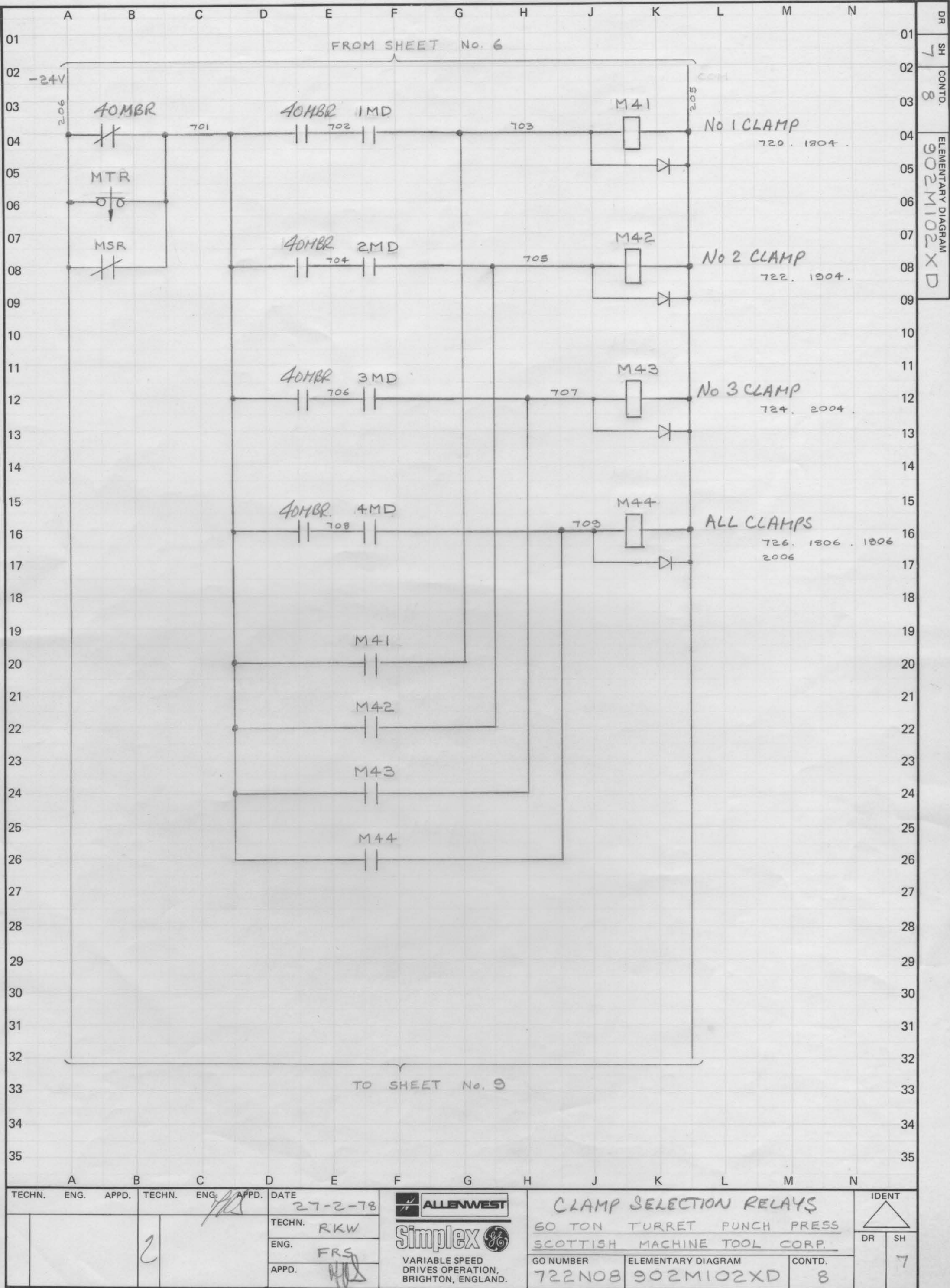
Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

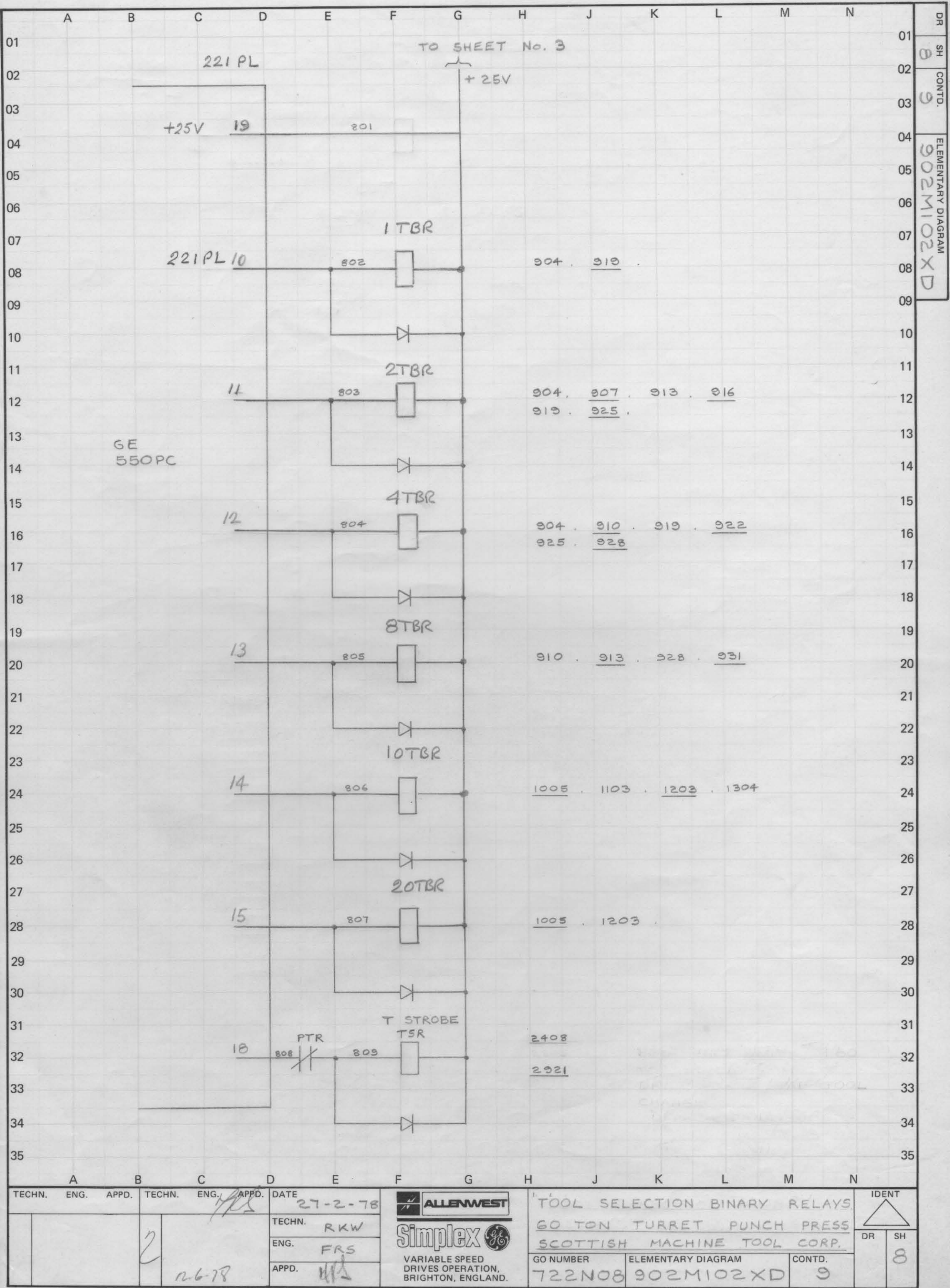


TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78		ALLENWEST		CLAMP AUTO RELAYS		IDENT	
						TECHN.	RKW		Simplex		60 TON TURRET PUNCH PRESS		DR SH	
						ENG.	FRS		VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		SCOTTISH MACHINE TOOL CORP.		6	
						APPD.					GO NUMBER 722N08		ELEMENTARY DIAGRAM	
											722N08		902M102XD	
											7		7	

2 12-6-78

Disclaimer Statement The trade mark is the trade mark of General Electric Company of U.S.A. which is not connected with the

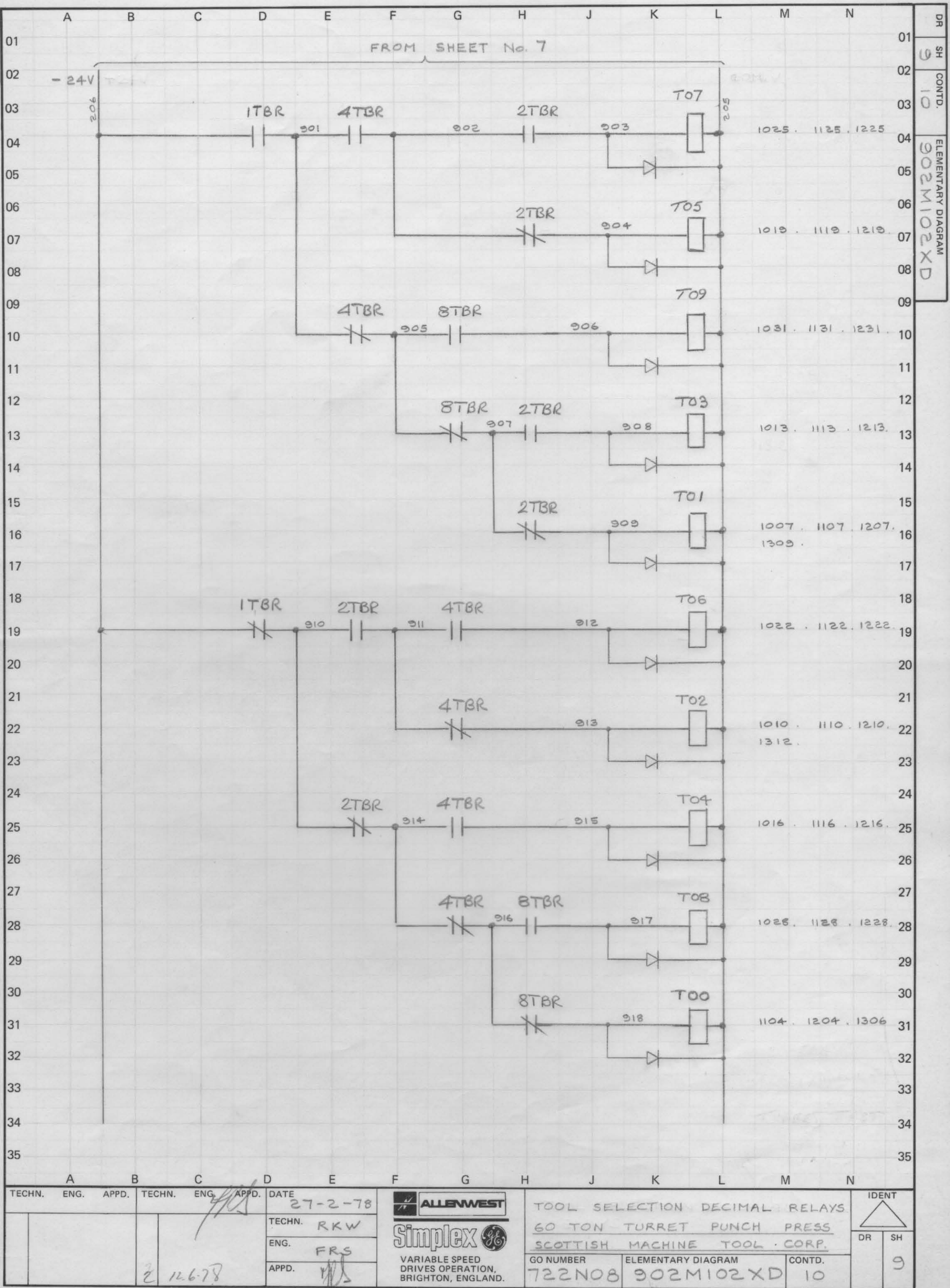




TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78		TOOL SELECTION BINARY RELAYS		IDENT	
						TECHN.	RKW		GO TON TURRET PUNCH PRESS		DR SH	
						ENG.	FRS		SCOTTISH MACHINE TOOL CORP.		8	
						APPD.	HLS		GO NUMBER		ELEMENTARY DIAGRAM	
									722N08		902M102XD	
									CONTD.		9	

Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

Disclaimer Statement The trade mark is the trade mark of General Electric Company of U.S.A. which is not connected with the English Company of a similar name

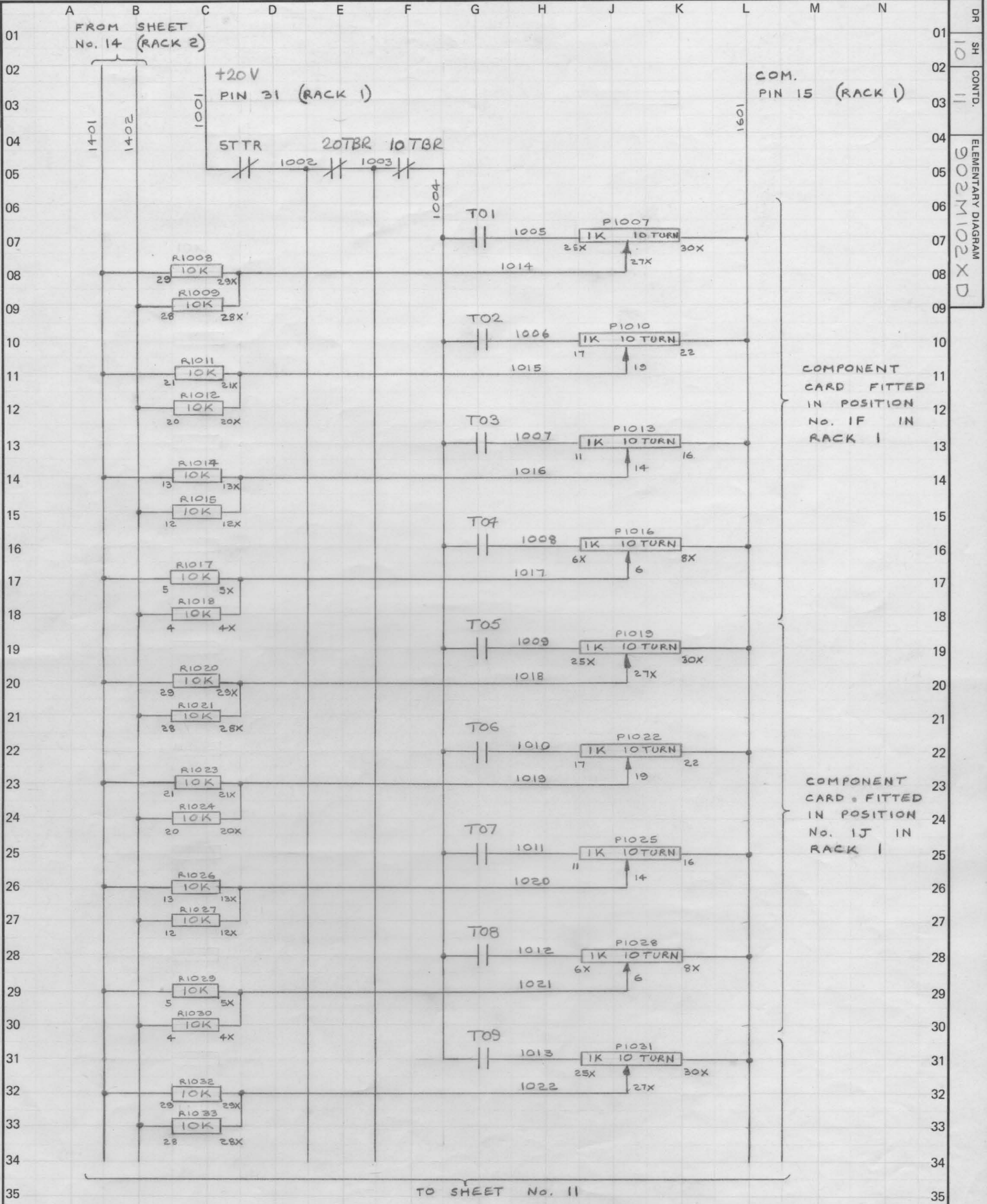


DR SH CONTD. ELEMENTARY DIAGRAM 902M102XD

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	TOOL SELECTION DECIMAL RELAYS		IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS		DR SH	
							SCOTTISH MACHINE TOOL CORP.		9	
							GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	
							722N08	902M102XD	10	

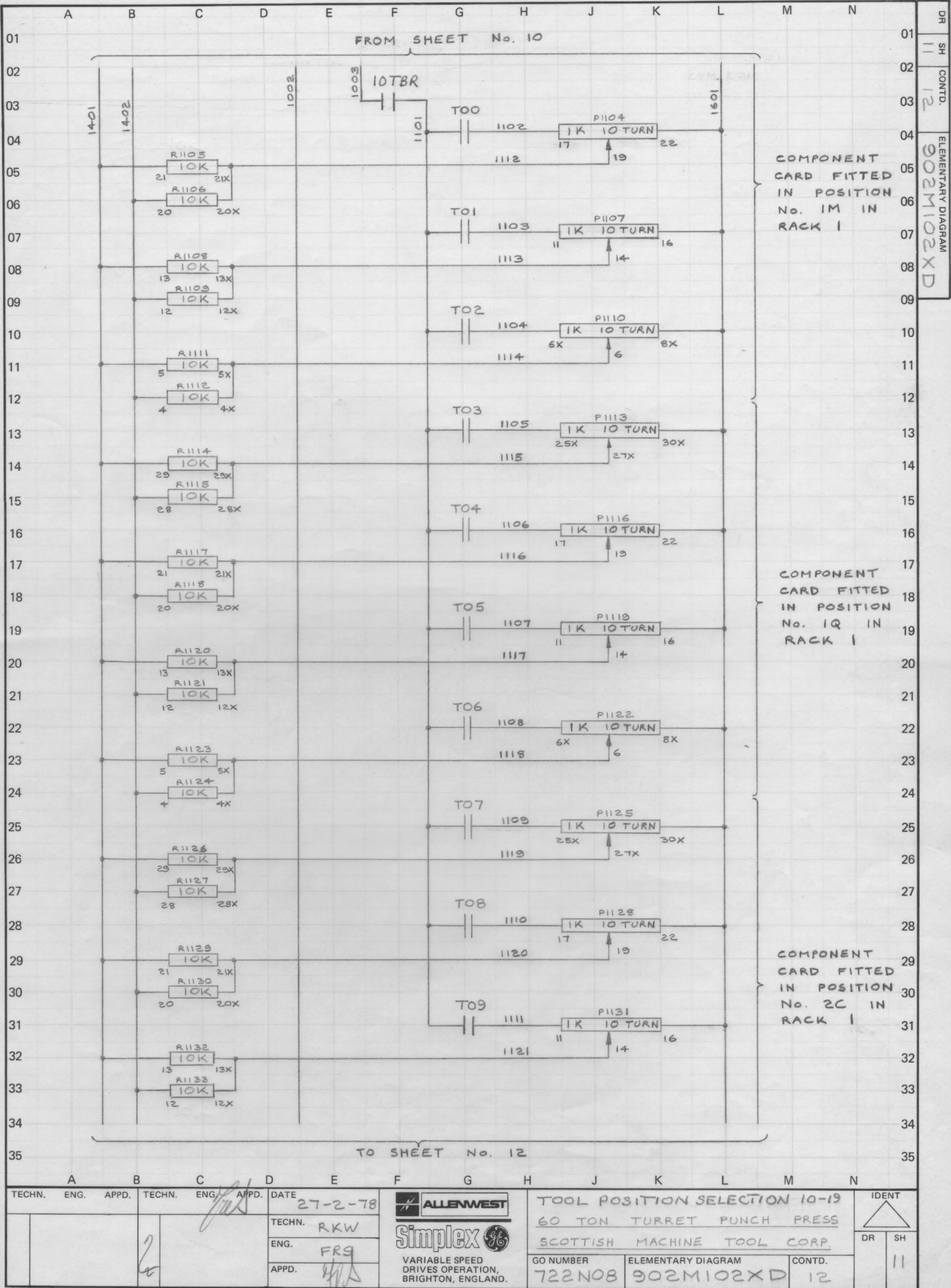
Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

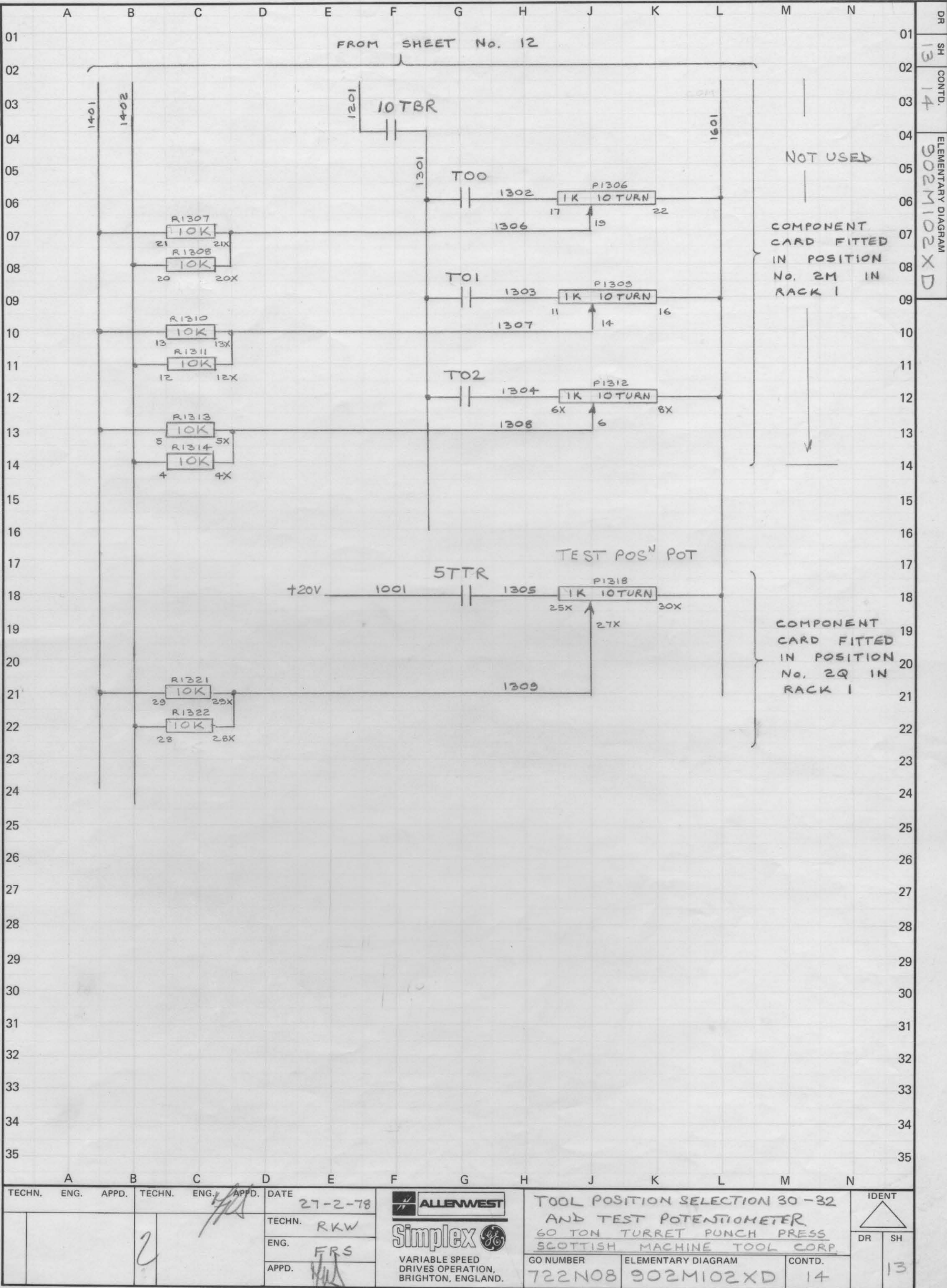
126-78



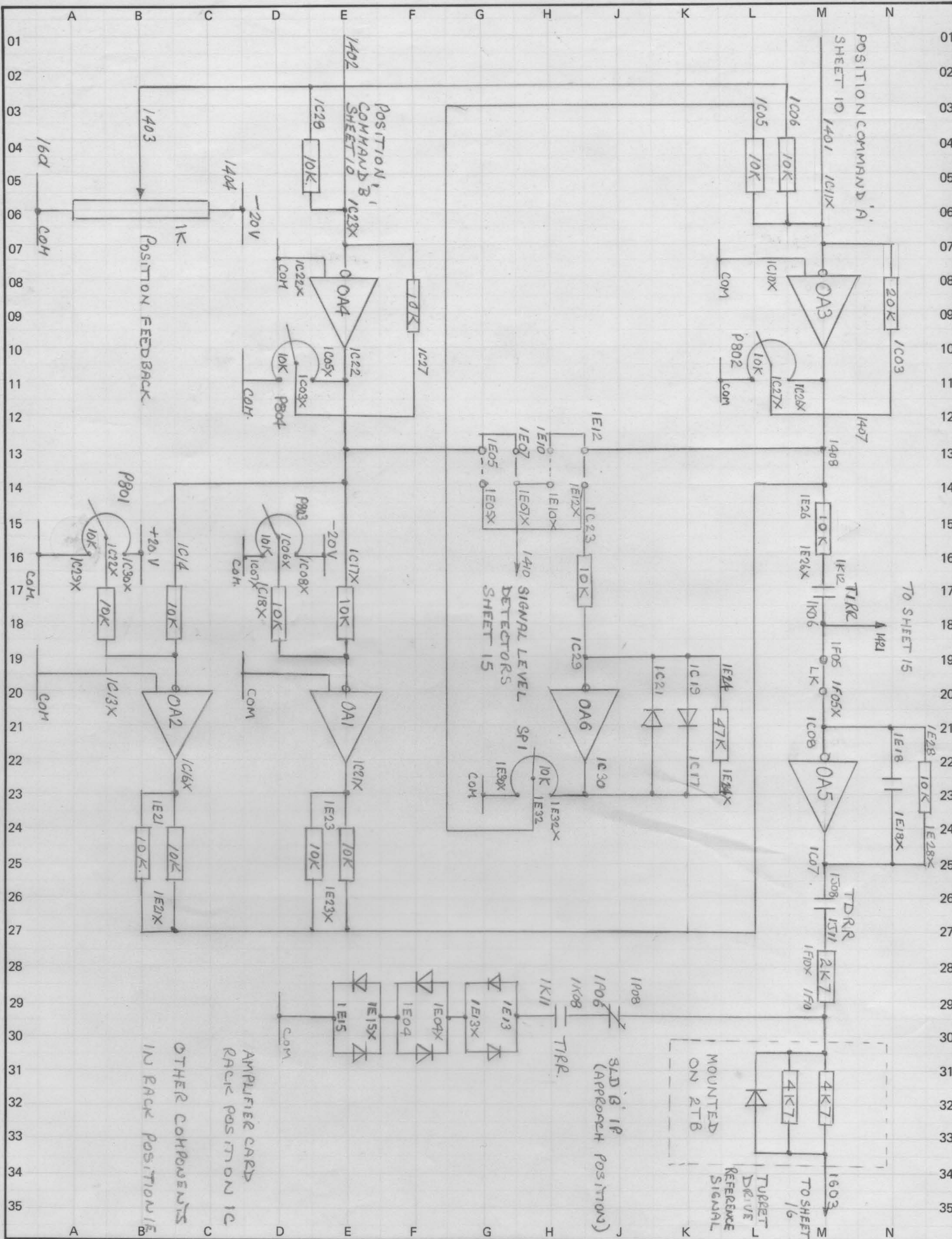
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	TOOL POSITION SELECTION 1-9 60 TON TURRET PUNCH PRESS SCOTTISH MACHINE TOOL CORP.			IDENT
						TECHN.	RKW	Simplex	GO NUMBER			DR
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	ELEMENTARY DIAGRAM			SH
						APPD.			722N08 902M102XD			10
								CONTD.			11	

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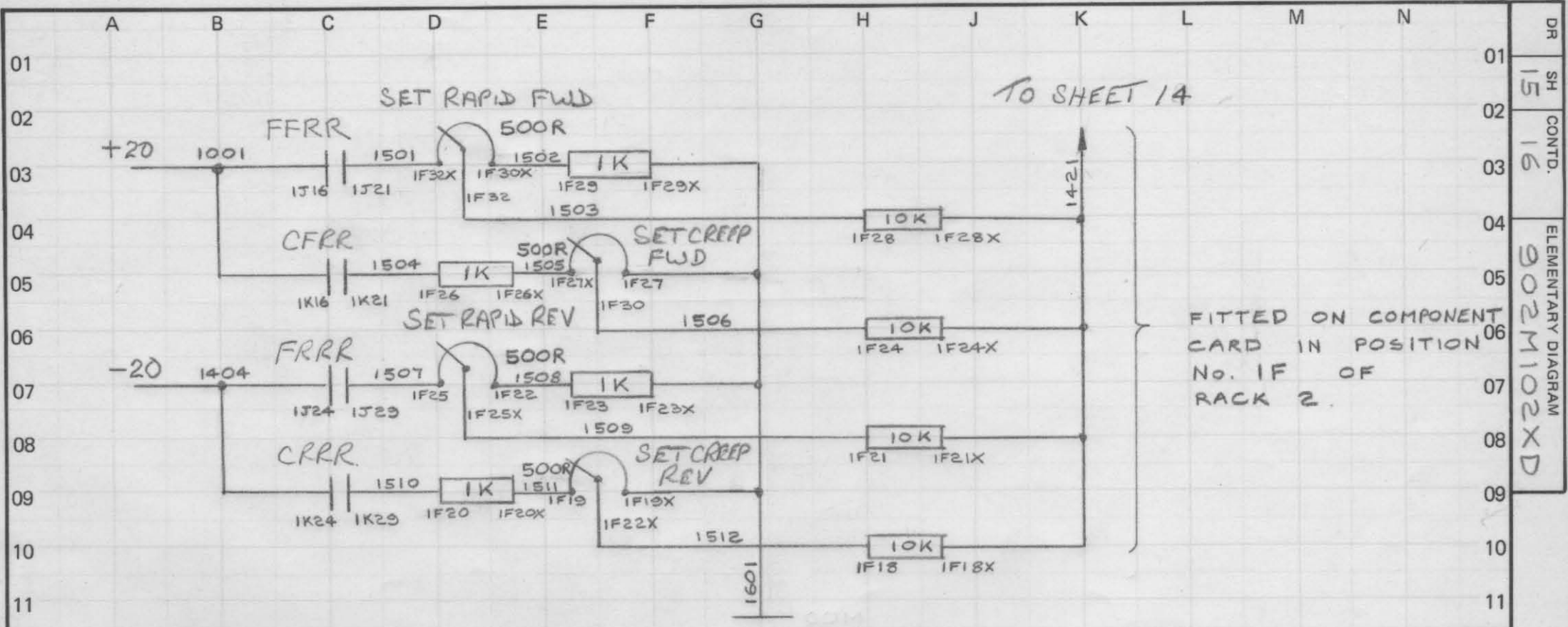




TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	TOOL POSITION SELECTION 30-32 AND TEST POTENTIOMETER			IDENT	
						TECHN.	RKW	Simplex	60 TON TURRET PUNCH PRESS			DR	
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	SCOTTISH MACHINE TOOL CORP.			SH	
						APPD.			GO NUMBER	ELEMENTARY DIAGRAM	CONTD.		
									722N08	902M102XD	14	13	



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	 Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		POSITION CONTROL CIRCUITS 60 TON TURRET PRESS FOR SCOTTISH M/C TOOL		GO NUMBER 722N08	ELEMENTARY DIAGRAM 902M102XD	CONTD. 15	IDENT DR SH 14
			RKW			27.2.78								
			REDRAWN											
			126.78											



FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

G02 SLA & SLB

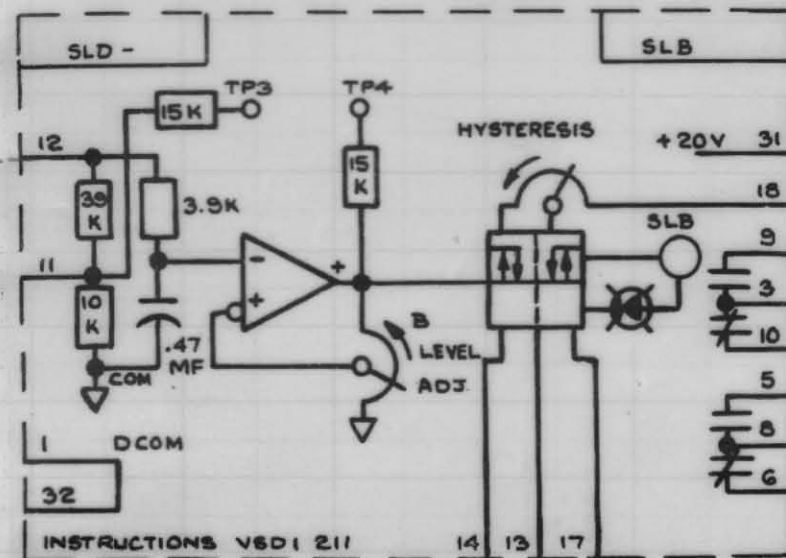
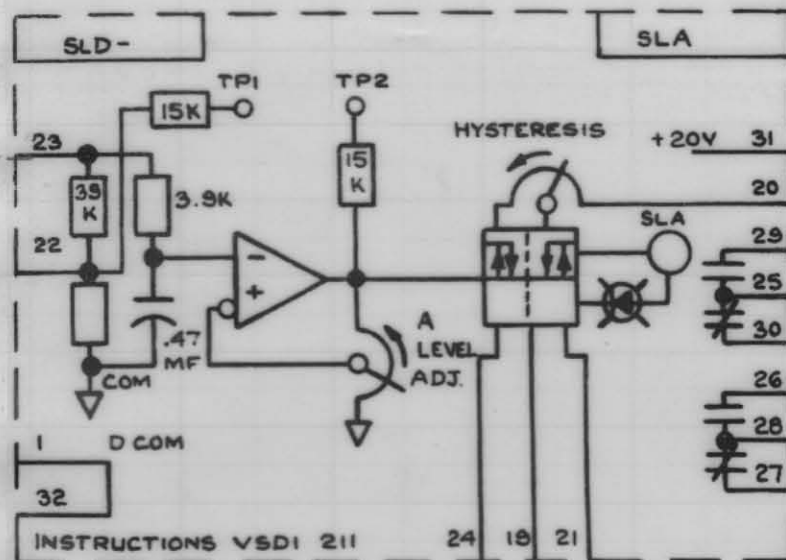
FROM SHEET No. 14
LINE 16

IN POSITION
SIGNAL

MOUNTED
ON 2TB

FROM SHEET No. 16

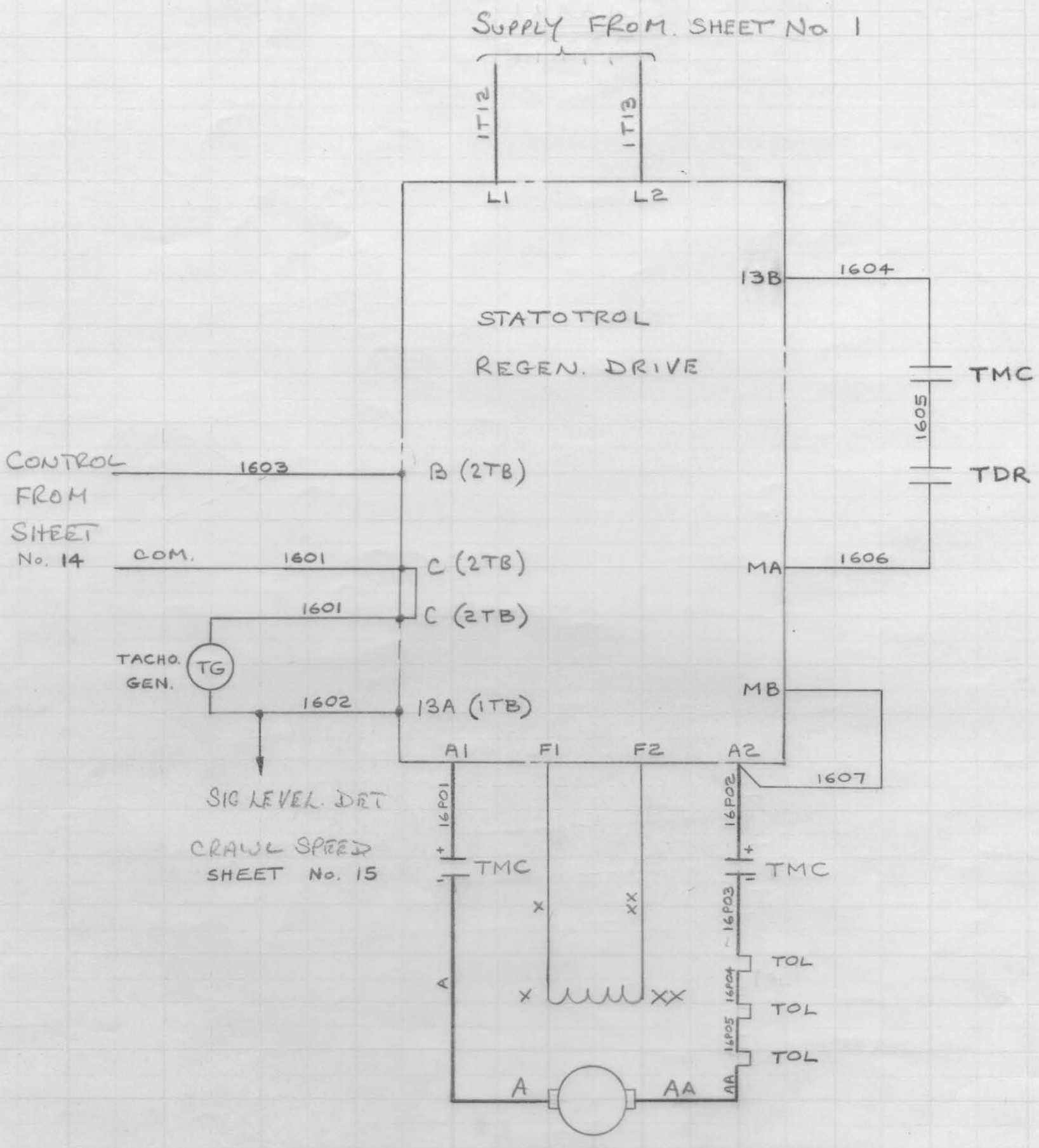
SLOW SPEED
SIGNAL



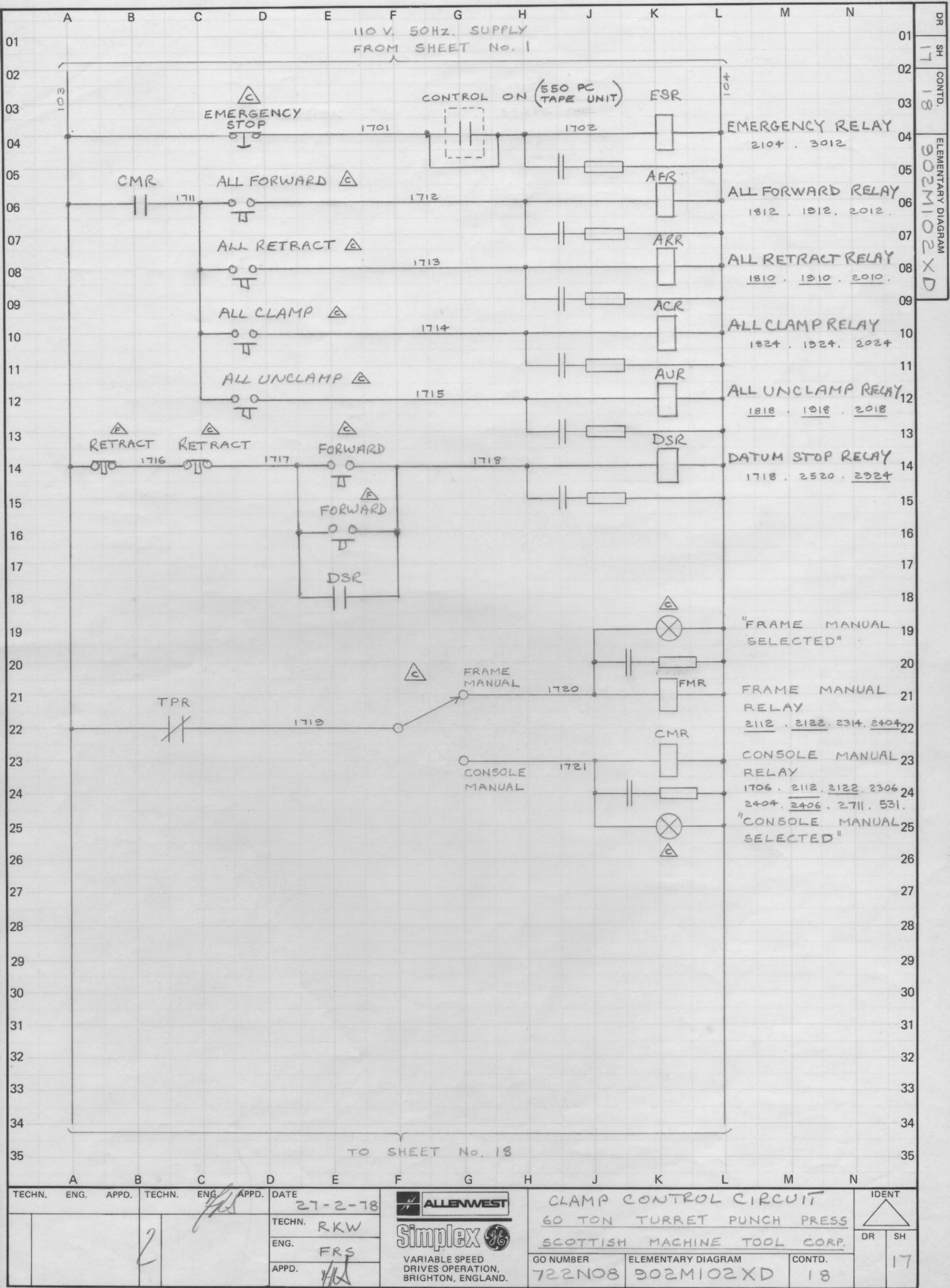
FITTED IN POSITION 'IN' IN RACK 2

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	ALLENWEST		POSITION CONTROL CIRCUITS		IDENT	
						27-2-78	Simplex		60 TON TURRET PUNCH PRESS		DR SH	
									SCOTTISH MACHINE TOOL CORP.		15	
									GO NUMBER		ELEMENTARY DIAGRAM	
									722 N08		902M102XD	
											CONTD. 16	

DR SH CONTD. ELEMENTARY DIAGRAM 902M102XD



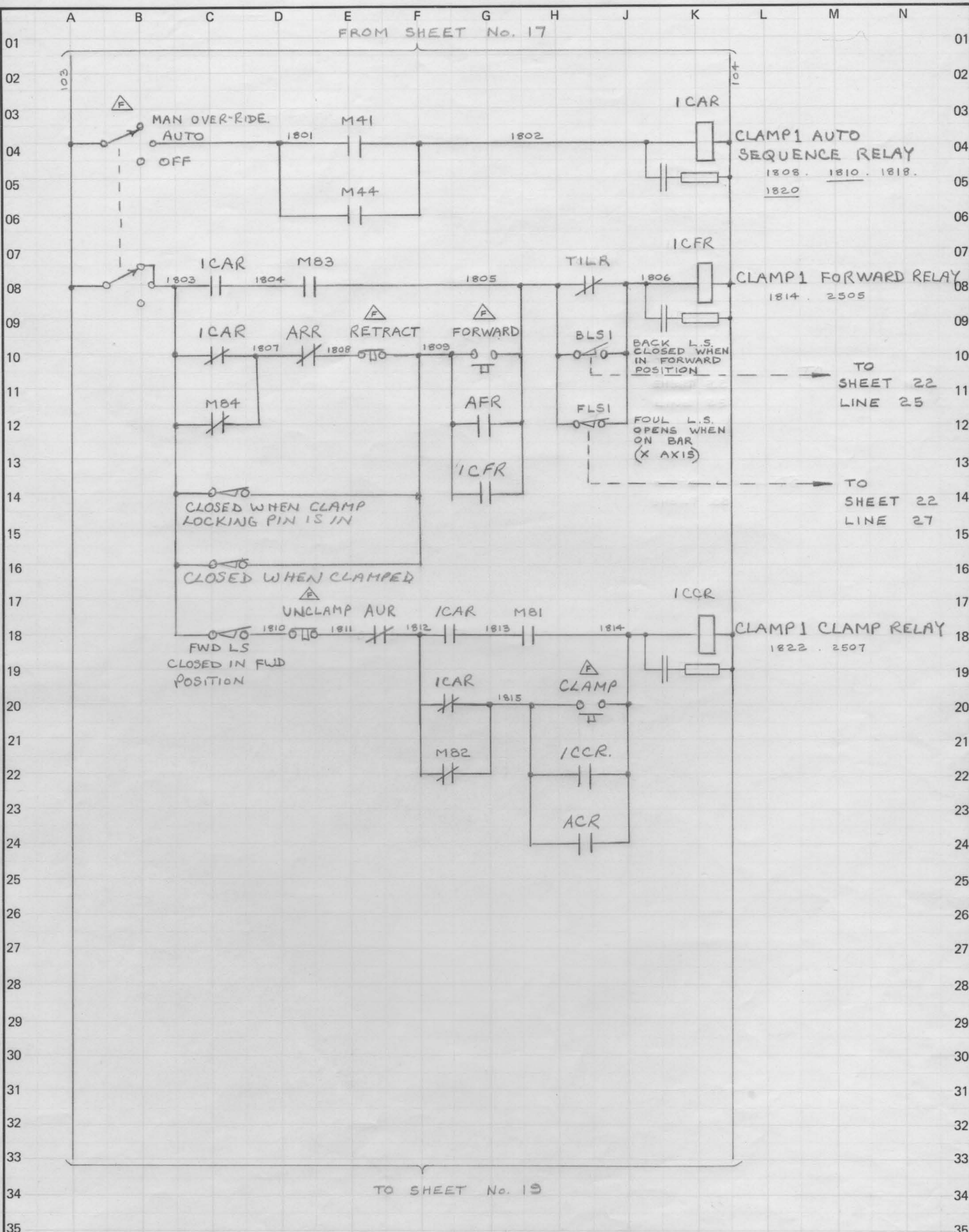
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	TURRET DRIVE			IDENT	
						TECHN.	RKW	Simplex	60 TON TURRET PUNCH PRESS			DR SH	
						ENG.	FRS	GE	SCOTTISH MACHINE TOOL CORP.			16	
						APPD.		VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GO NUMBER	ELEMENTARY DIAGRAM	CONTD.		
									722N08	902M102XD	17		



DR SH CONTD. ELEMENTARY DIAGRAM 902M102XD

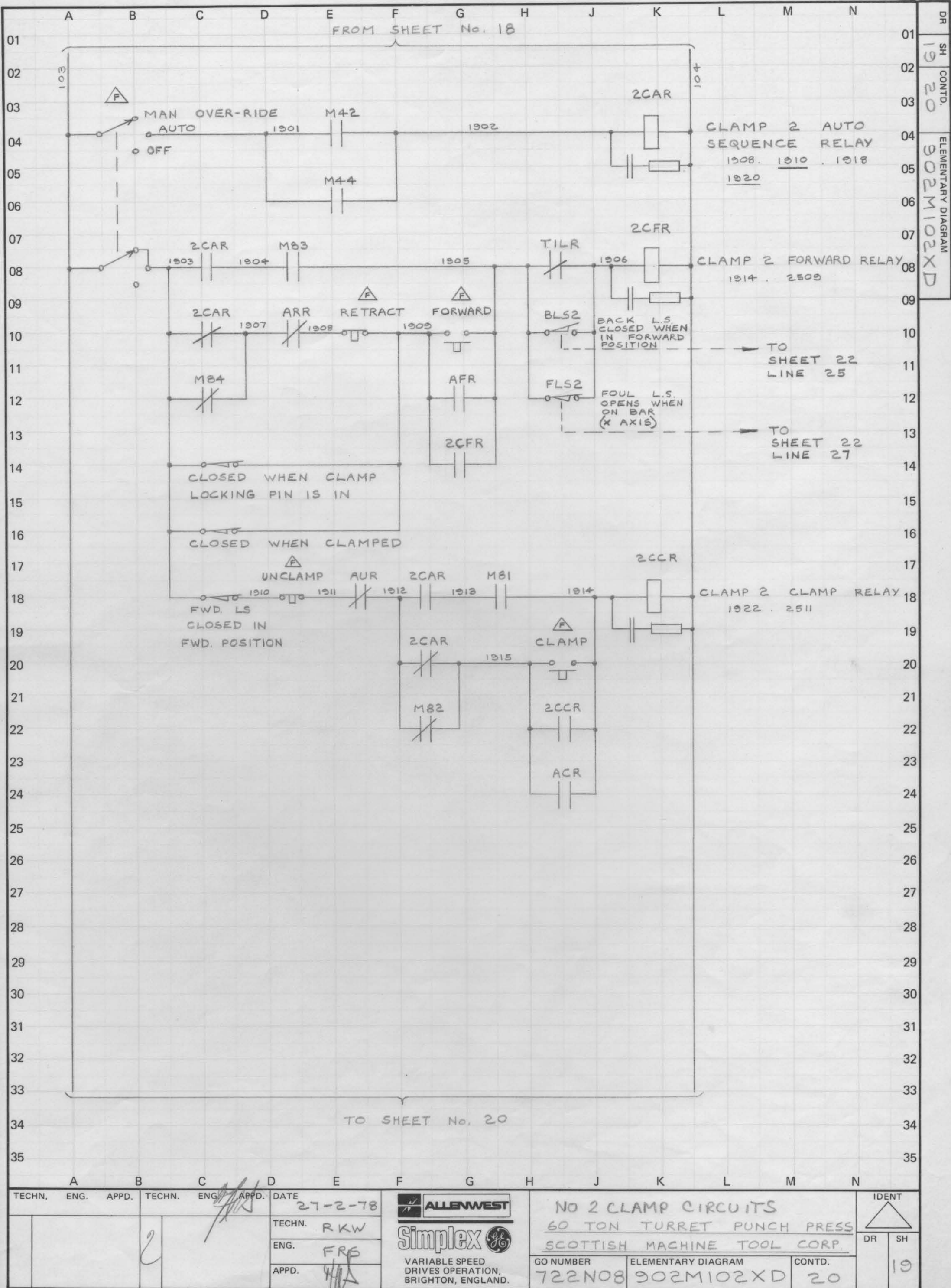
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	CLAMP CONTROL CIRCUIT		IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS		DR SH	
						TECHN. RKW	SCOTTISH MACHINE TOOL CORP.		17	
						ENG. FRS	GO NUMBER 722N08		ELEMENTARY DIAGRAM 902M102XD	
						APPD. HKS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		CONTD. 18	

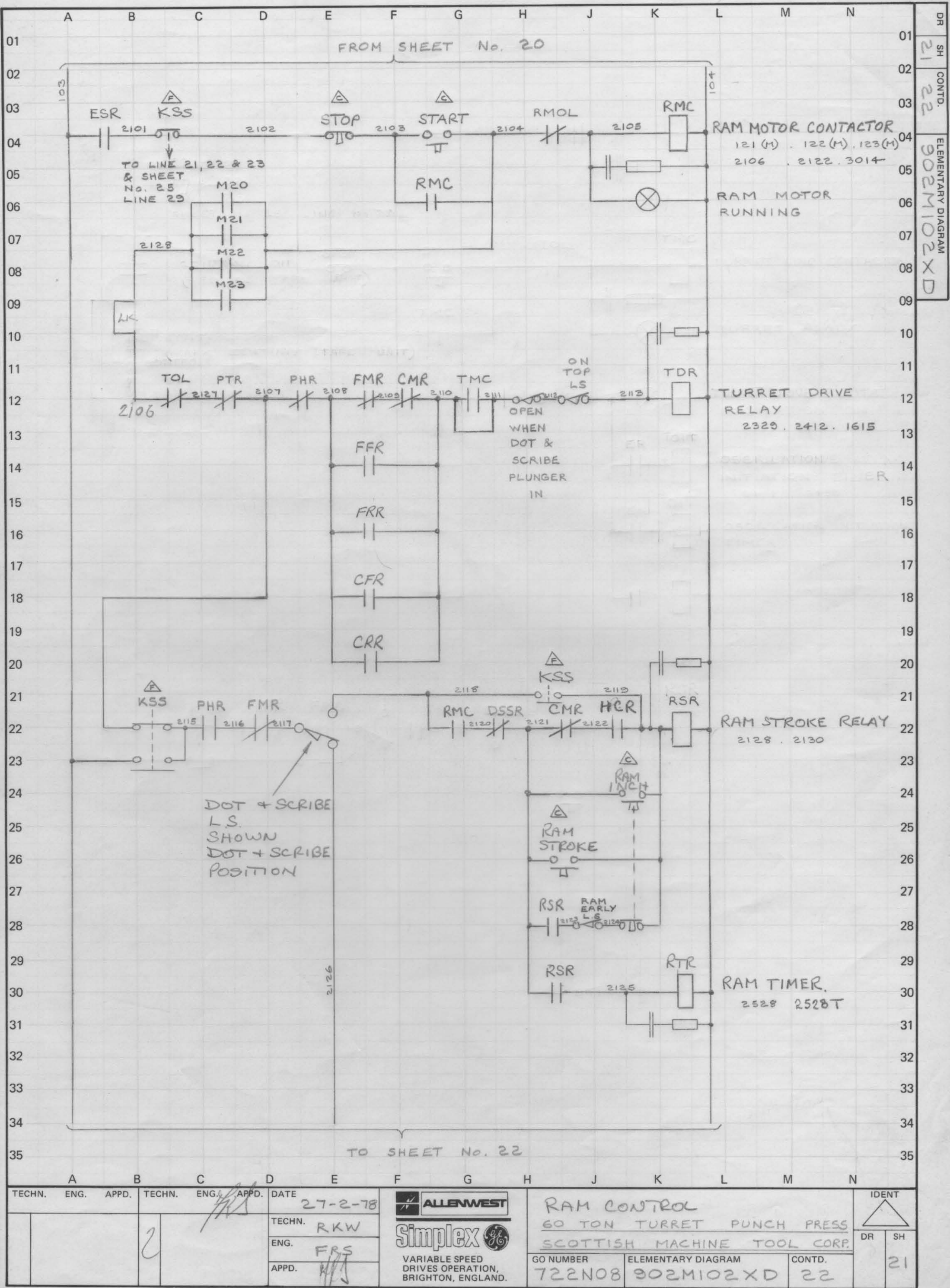
DR
SH
CONTD.
ELEMENTARY DIAGRAM
18-19
902M102XD



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	No. 1 CLAMP CIRCUITS		IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS		DR SH	
						TECHN. RKW	SCOTTISH MACHINE TOOL CORP.		18	
						ENG. FRS	GO NUMBER 722N08		ELEMENTARY DIAGRAM	
						APPD.	722N08		CONTD. 19	

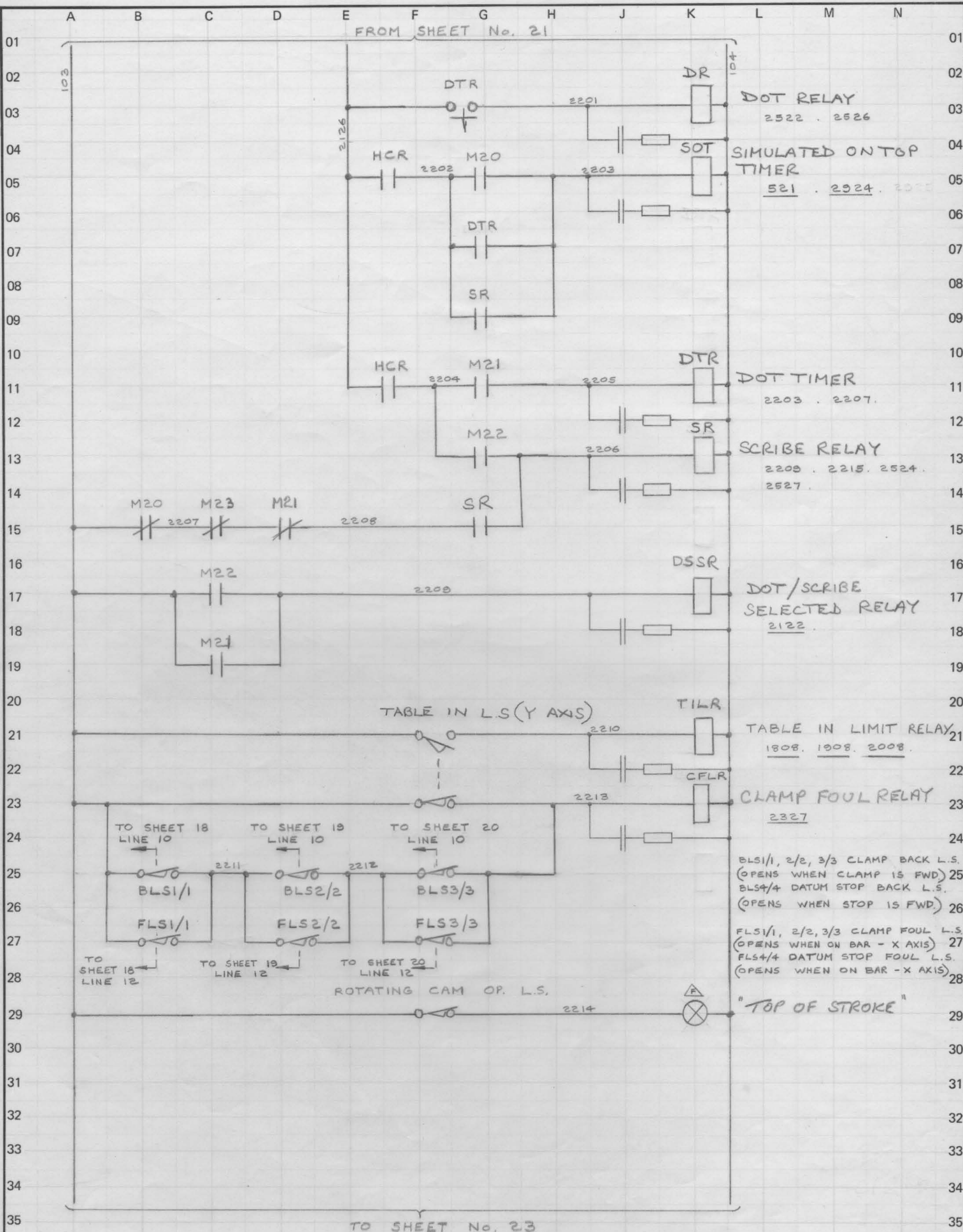
Allenwest
Simplex
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.



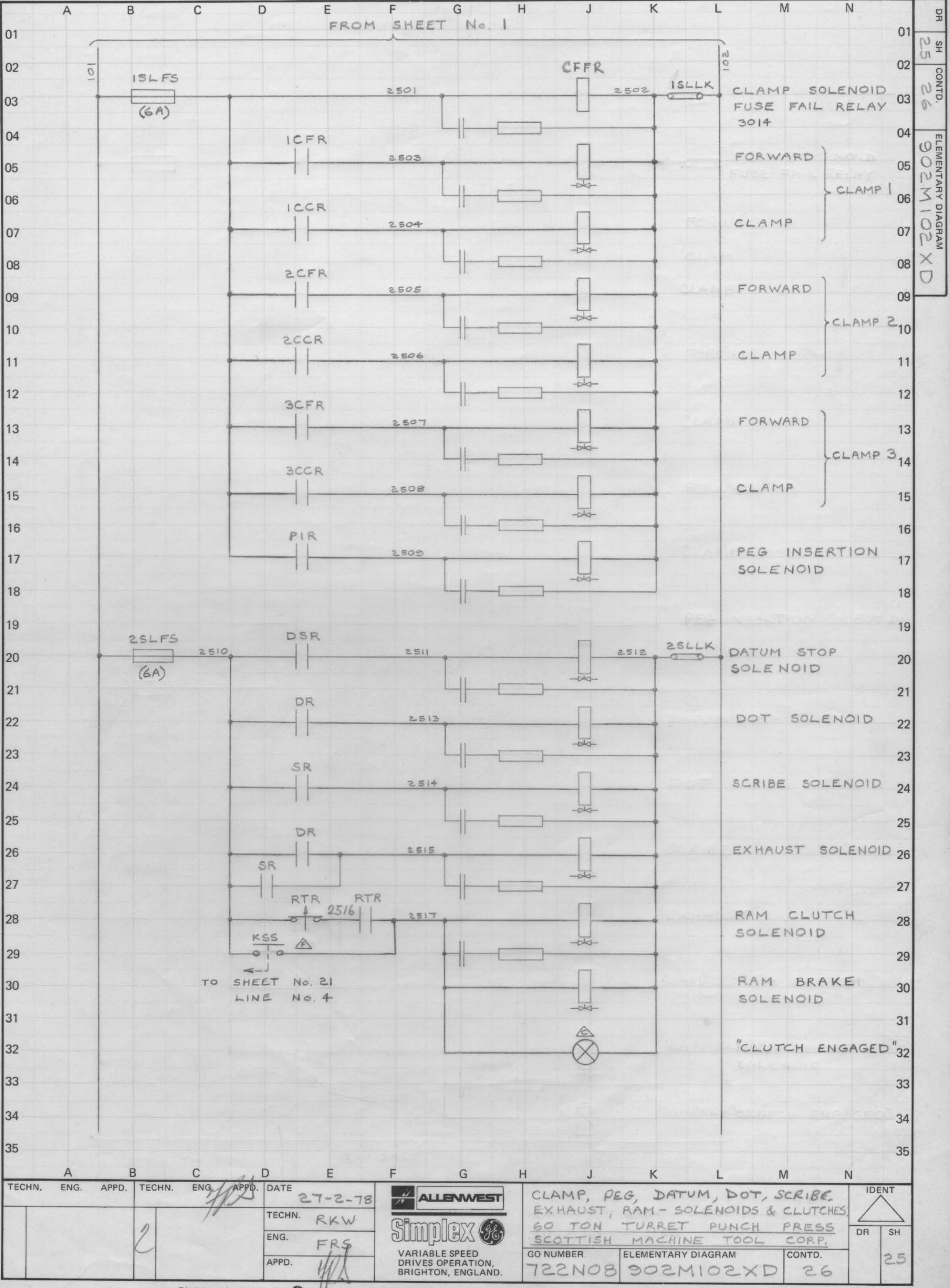


DR SH CONTD. ELEMENTARY DIAGRAM 902M102XD

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	RAM CONTROL	IDENT	DR	SH
						TECHN.	RKW	Simplex	60 TON TURRET PUNCH PRESS			
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	SCOTTISH MACHINE TOOL CORP.			
						APPD.			GO NUMBER 722N08	ELEMENTARY DIAGRAM 902M102XD	CONTD. 22	21



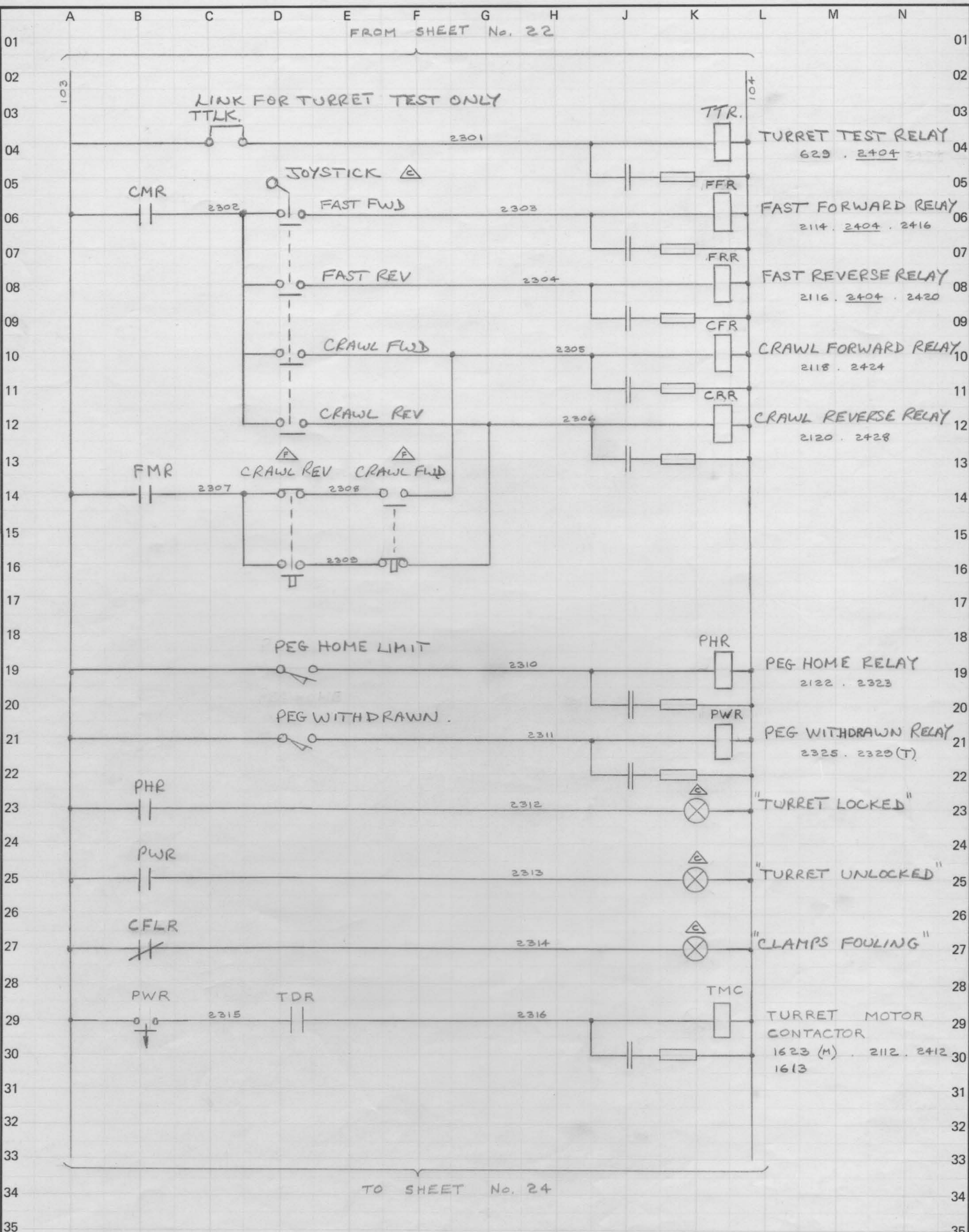
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	 Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	DOT AND SCRIBE CIRCUITS 60 TON TURRET PUNCH PRESS SCOTTISH MACHINE TOOL CORP.			IDENT DR SH 22	
						TECHN.	RKW		GO NUMBER	ELEMENTARY DIAGRAM	CONTD.		
						ENG.	FRG		722N08	902M102XD	23		
						APPD.	HKS						



DR
SH
CONTD.
ELEMENTARY DIAGRAM
902M102XD

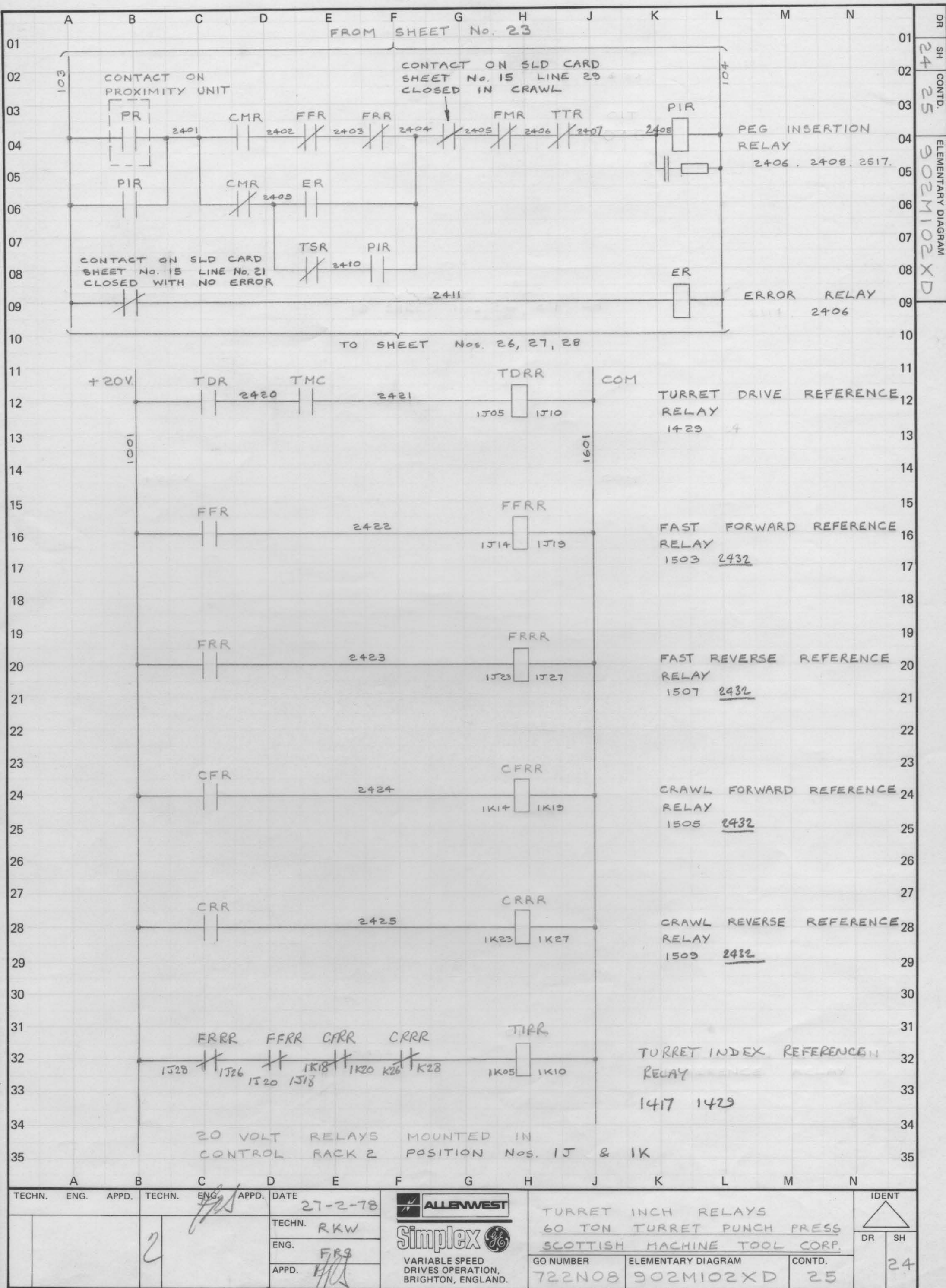
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	CLAMP, PEG, DATUM, DOT, SCRIBE, EXHAUST, RAM - SOLENOIDS & CLUTCHES, 60 TON TURRET PUNCH PRESS, SCOTTISH MACHINE TOOL CORP.	IDENT	DR	SH
						TECHN.	RKW	Simplex	GO NUMBER			
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	722N08	902M102XD	26	25
						APPD.						

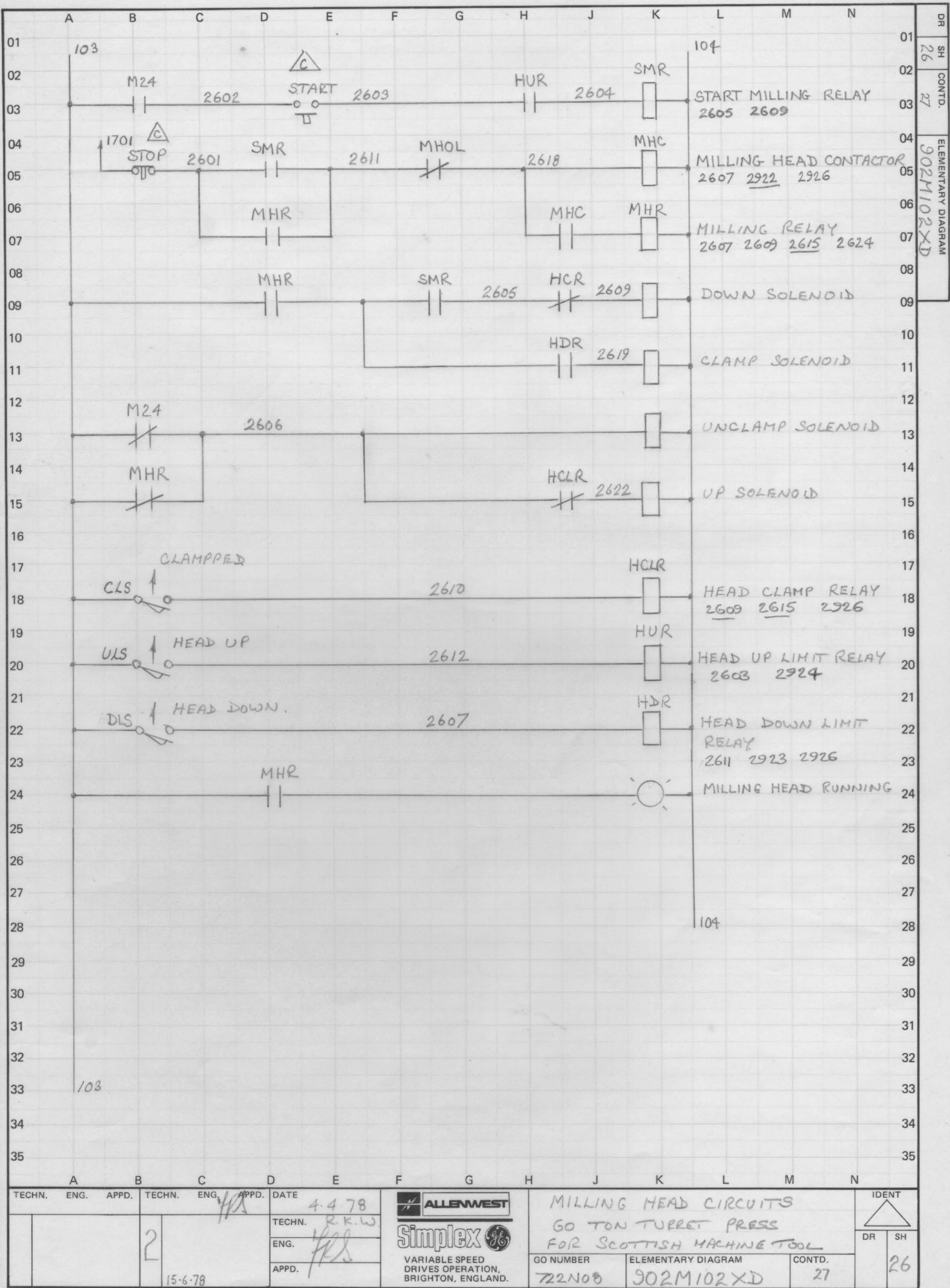
DR
SH
CONTD.
ELEMENTARY DIAGRAM
902M102XD



TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	TURRET CONTROLS			IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS			DR SH	
							SCOTTISH MACHINE TOOL CORP.				
							GO NUMBER			23	
							ELEMENTARY DIAGRAM				
							CONTD.				
							722N08			902M102XD	
							24				

Allenwest
Simplex
VARIABLE SPEED
DRIVES OPERATION,
BRIGHTON, ENGLAND.





DR SH CONTD. ELEMENTARY DIAGRAM

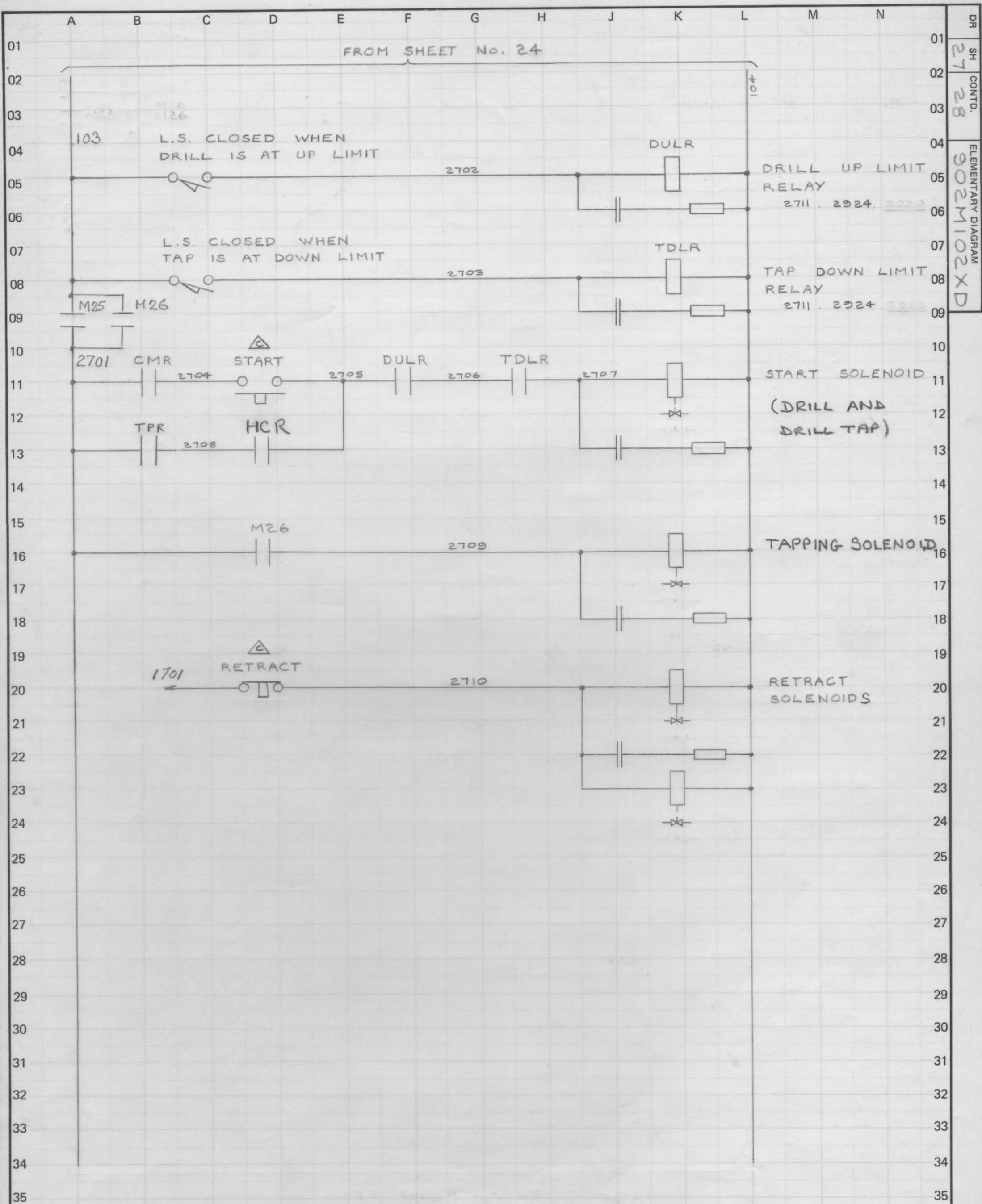
26 27 902M102XD

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	MILLING HEAD CIRCUITS		IDENT	
						4.4.78	GO TON TURRET PRESS		DR SH	
						R.K.W.	FOR SCOTTISH MACHINE TOOL			
							GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	
							722N08	902M102XD	27	26

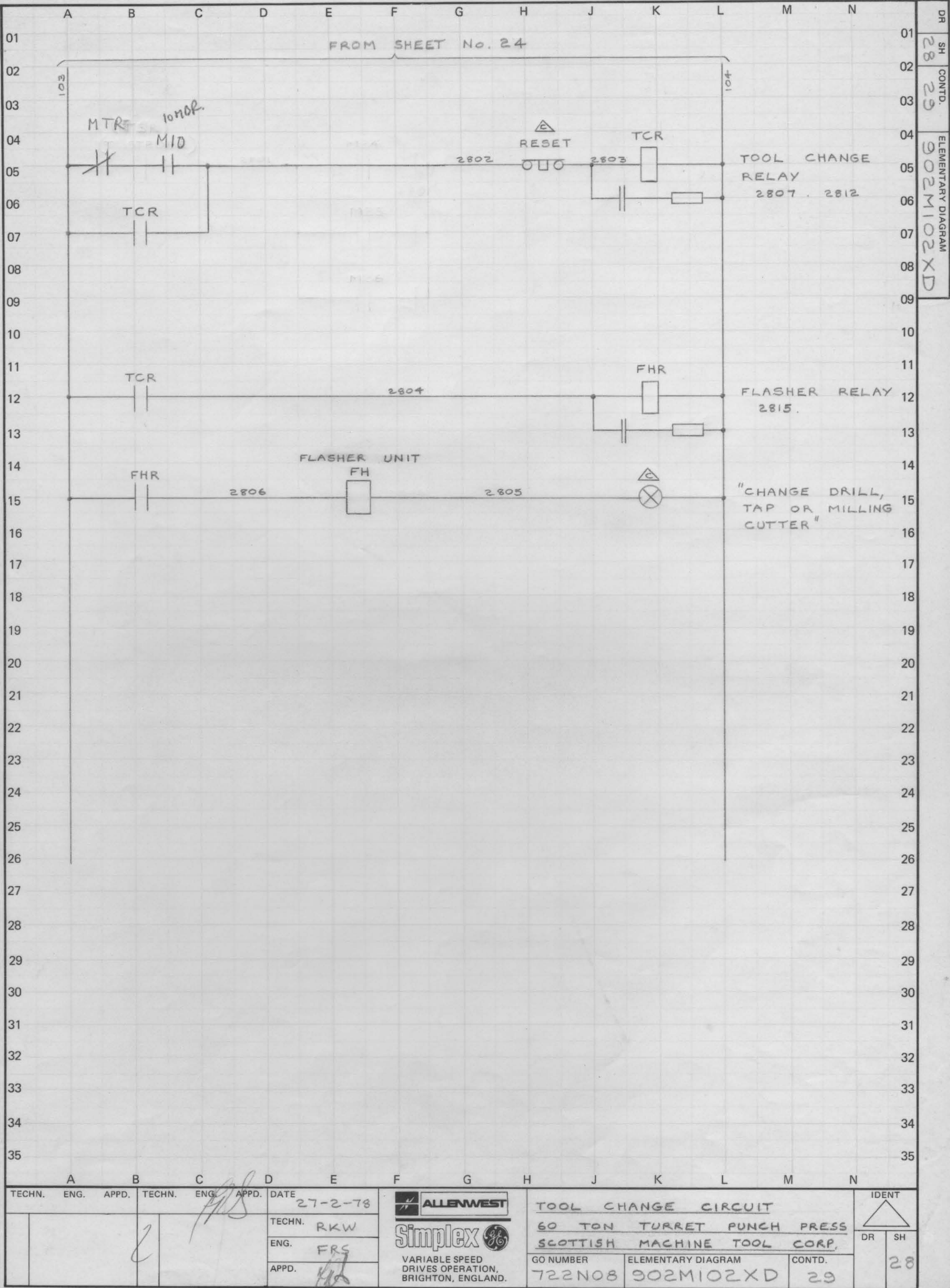
Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

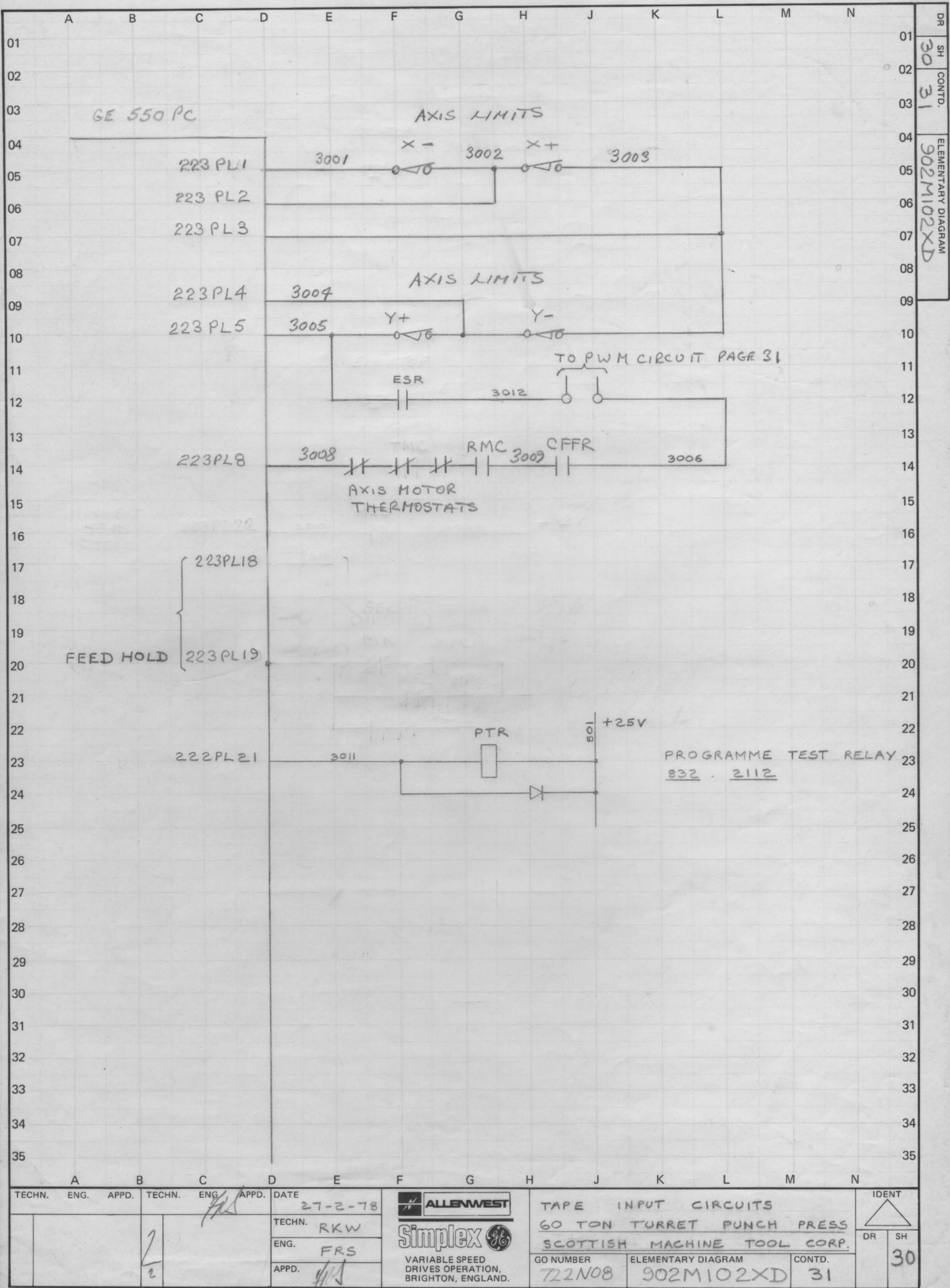
15-6-78

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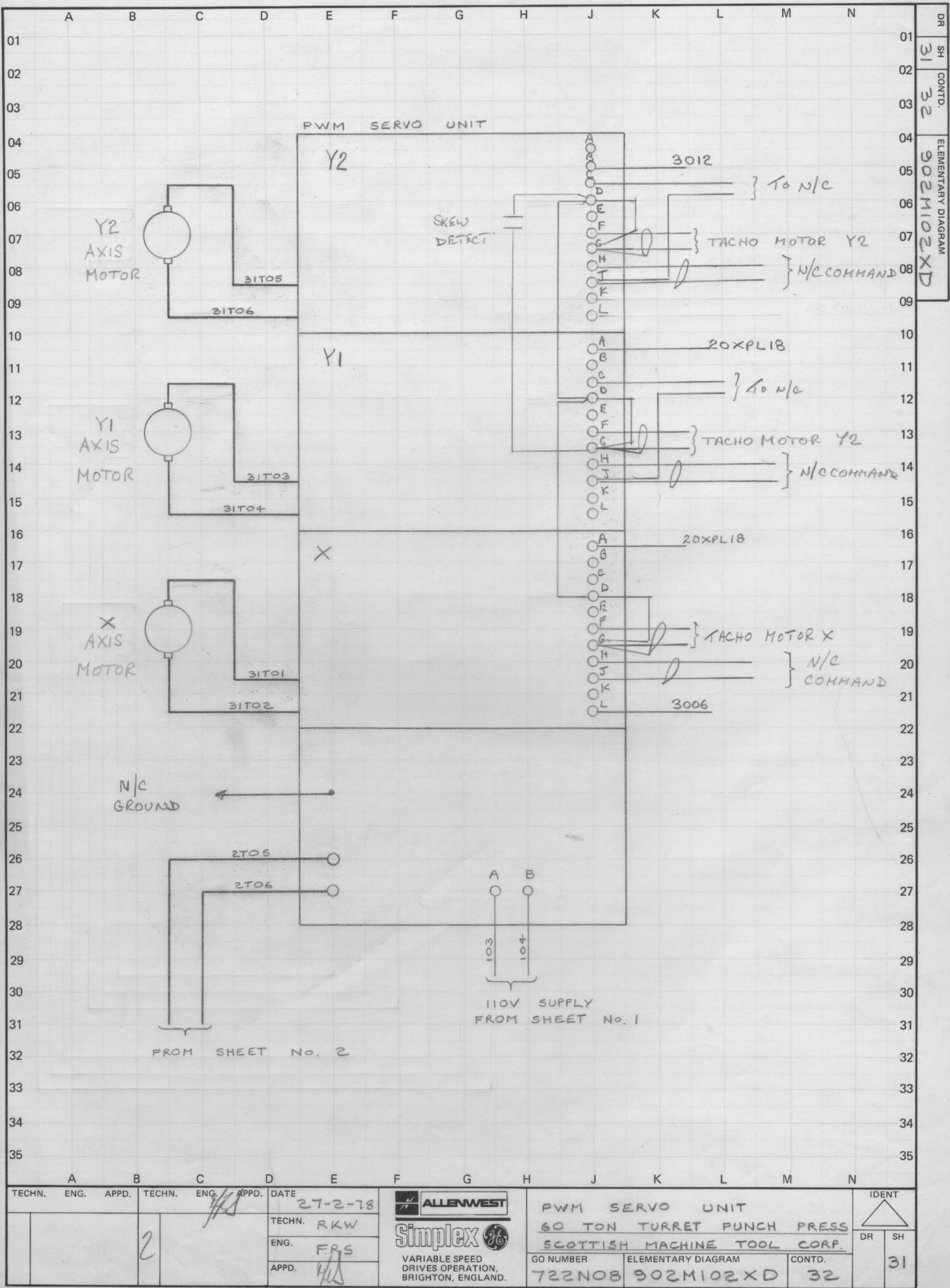
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	DRILL & DRILL/TAP CYCLE		IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS		DR SH	
						TECHN. RKW	SCOTTISH MACHINE TOOL CORP.		27	
						ENG. FRS	GO NUMBER 722N08		ELEMENTARY DIAGRAM	
						APPD. JLS	722N08		302M102XD	
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.							722N08		302M102XD	
Disclaimer Statement The trade mark is the trade mark of General Electric Company of U.S.A. which is not connected with the English Company of a similar name.							722N08		302M102XD	

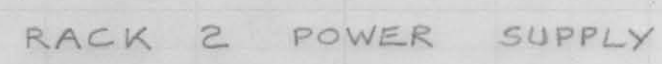


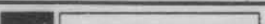
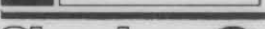


DR SH CONTD. ELEMENTARY DIAGRAM 30 31 902M102XD

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	TAPE INPUT CIRCUITS	IDENT
						TECHN.	RKW	Simplex	60 TON TURRET PUNCH PRESS	DR SH
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	SCOTTISH MACHINE TOOL CORP.	30
						APPD.		GO NUMBER	ELEMENTARY DIAGRAM	CONTD.
								722N08	902M102XD	31





A		B		C		D		E		F		G		H		J		K		L		M		N					
TECHN.		ENG.		APPD.		TECHN.		ENG.		APPD.		DATE				RACK POWER SUPPLY CIRCUITS 60 TON TURRET PUNCH PRESS SCOTTISH MACHINE TOOL CORP.										IDENT 			
						27-2-78		TECHN. <i>RKW</i>						GO NUMBER 722N08										ELEMENTARY DIAGRAM 902M102XD		CONTD. 33		DR SH	
								ENG. <i>FRS</i>				VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.																	
								APPD. <i>[Signature]</i>																					

A B C D E F G H J K L M N														DR	
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34															34
35															35

FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

G02 SLA & SLB

SLD -

SLA

TP1

TP2

HYSTERESIS

+20V

31

SPARE

23

15K

3.9K

39K

22

COM

.47 MF

A LEVEL

ADJ.

20

29

25

30

26

28

27

DCOM

32

INSTRUCTIONS VSD 1 211

24

19

21

SLD -

SLB

TP3

TP4

HYSTERESIS

+20V

31

12

15K

3.9K

39K

11

10K

COM

.47 MF

B LEVEL

ADJ.

18

9

3

10

5

8

6

DCOM

32

INSTRUCTIONS VSD 1 211

14

13

17

FROM SHEET 14 LINE 16

APPROACH

POSITION SIGNAL

1410

1P08 (1F10)

1P06 (1K08)

SHEET 14 LINE 29

FITTED IN POSITION No. 1P IN RACK 2

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	FEED CUT-OUT CIRCUIT			IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS			DR SH	
							SCOTTISH MACHINE TOOL CORP.				
							GO NUMBER			33	
							722N08				
							ELEMENTARY DIAGRAM				
							902M102XD				
							CONTD.				
							34				

ALLENWEST

SIMPLEX

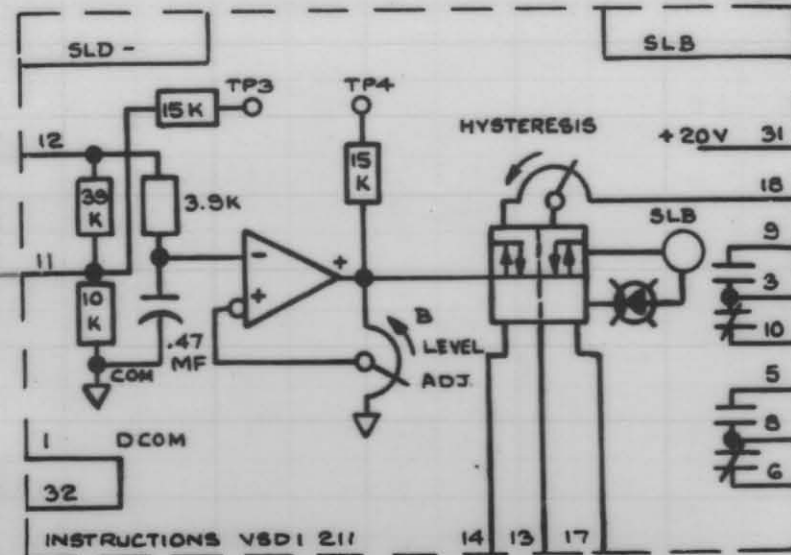
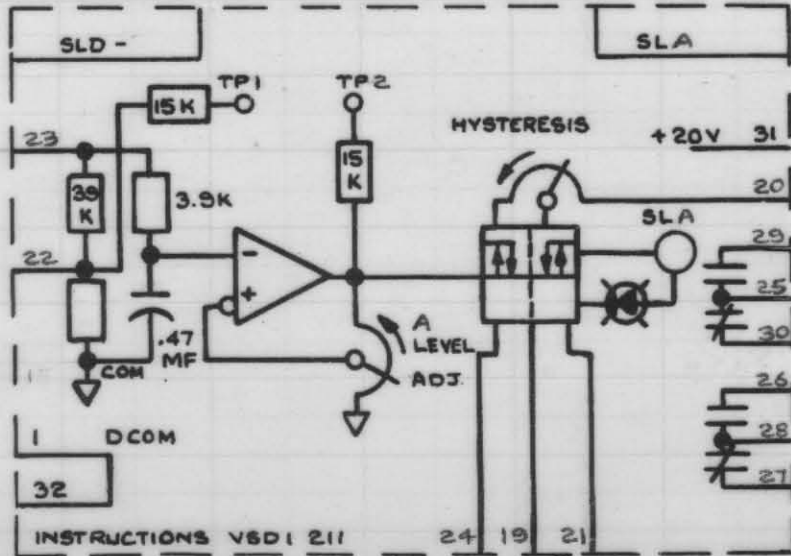
VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

FUNCTIONAL BLOCK DIAGRAM

SIGNAL LEVEL DETECTOR.

G01 SLA

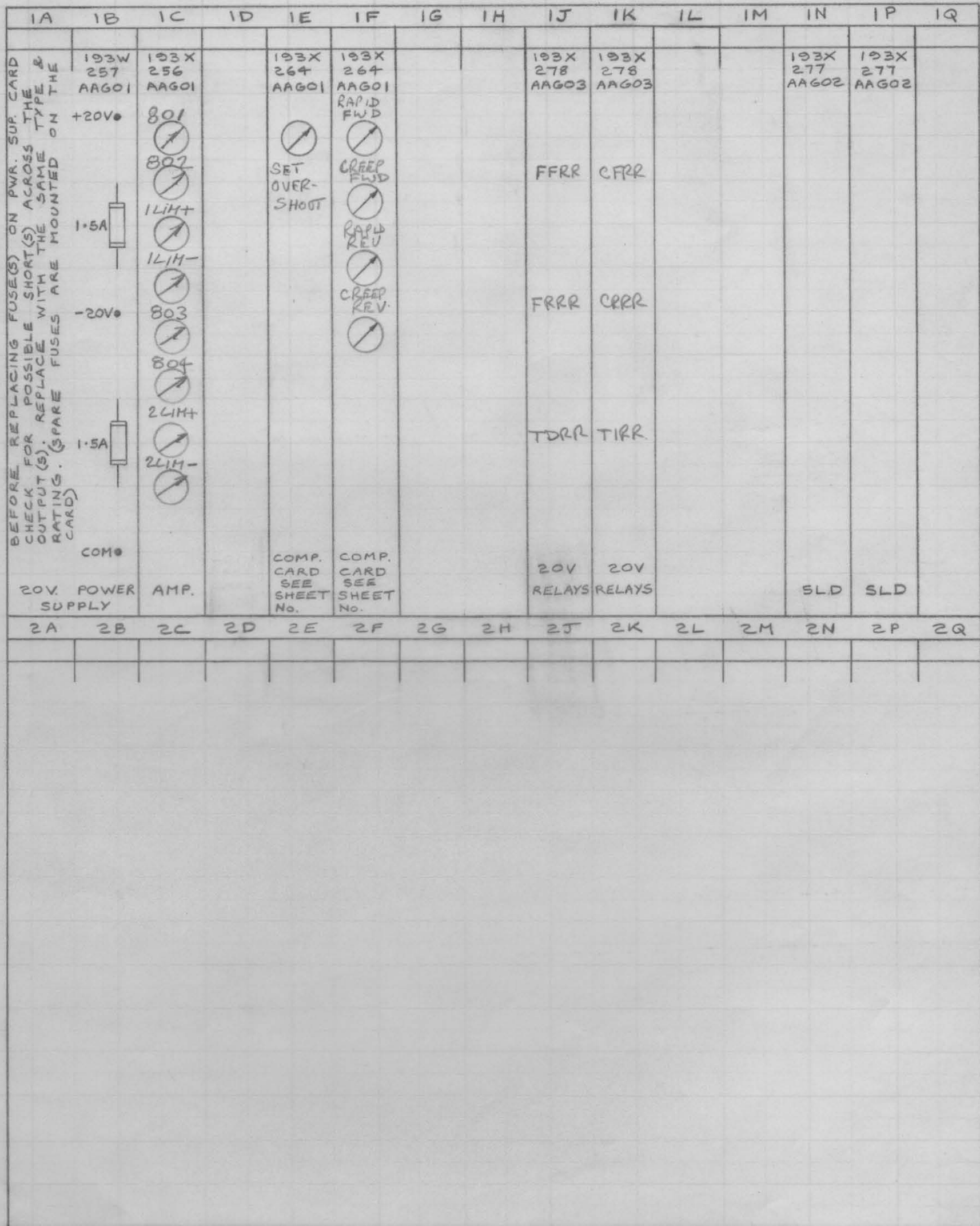
G02 SLA & SLB



FITTED IN POSITION No. 1P IN RACK 2

RACK 1

RACK 2

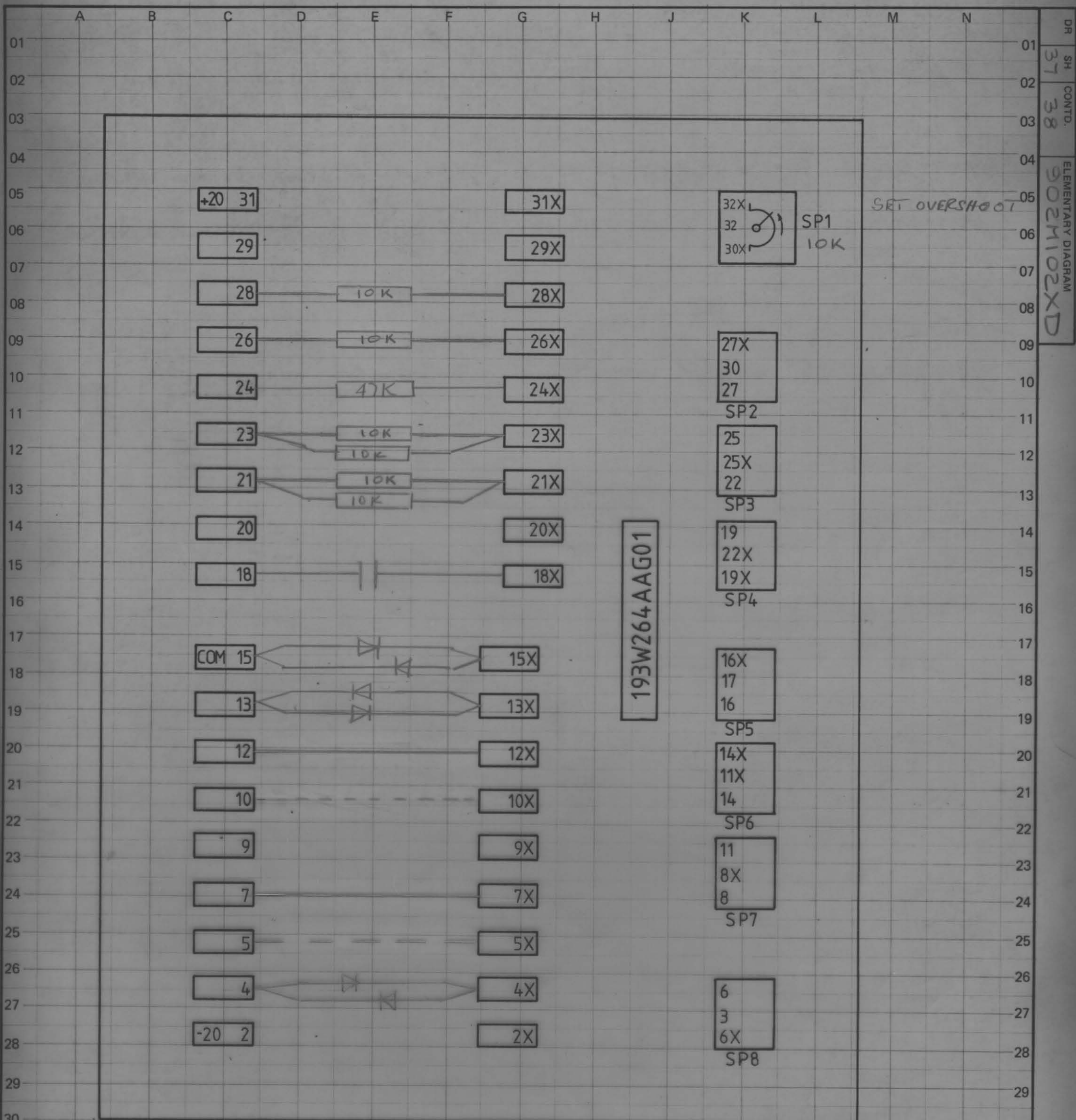


SYMBOLS

• - TEST POST

⊗ - POT. ADJUSTMENT

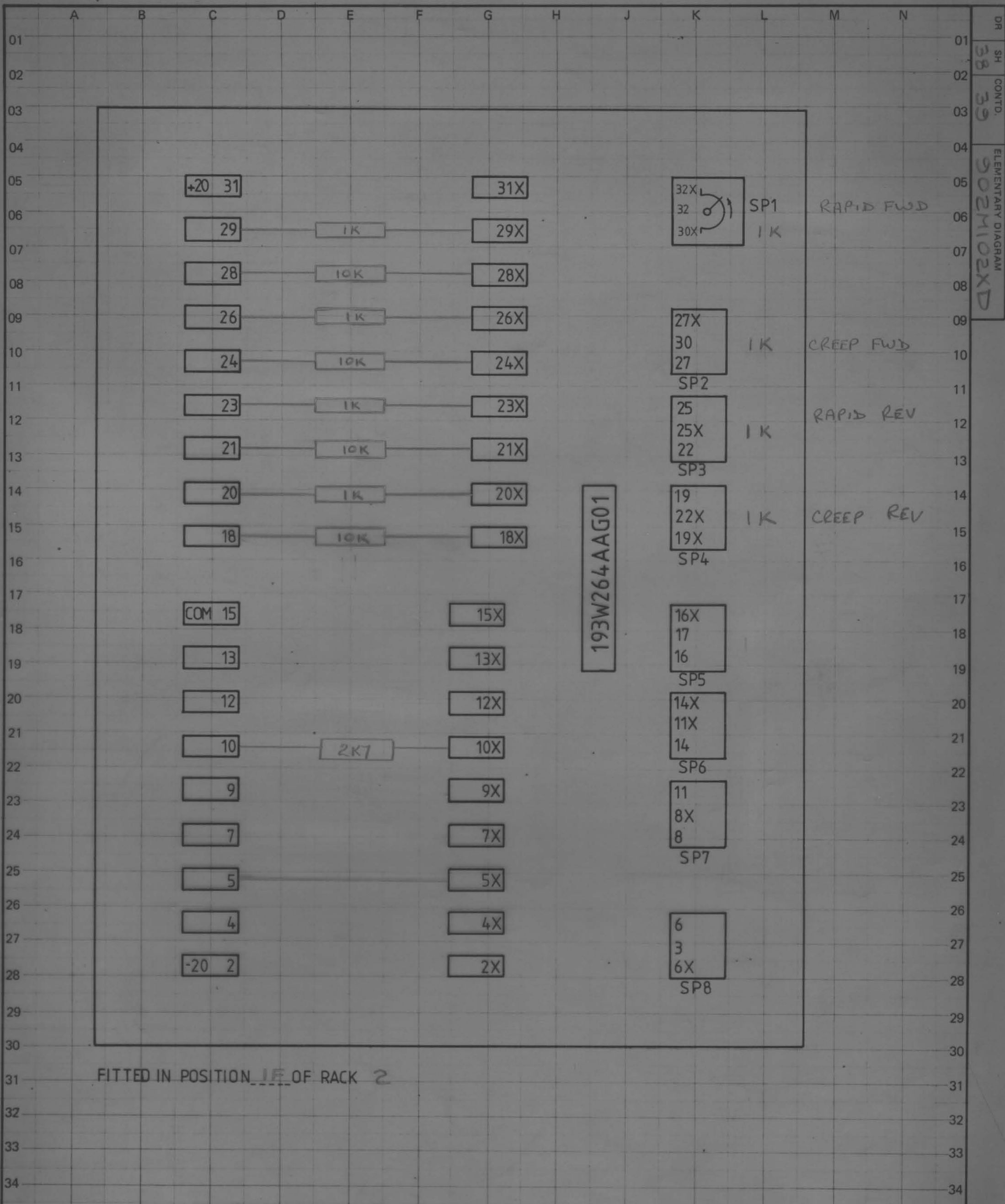
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	LAYOUT OF CARDS IN RACK 2			IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS			DR SH	
							SCOTTISH MACHINE TOOL CORP.				
							GO NUMBER			ELEMENTARY DIAGRAM	
							722N08			902M102XD	
										36	



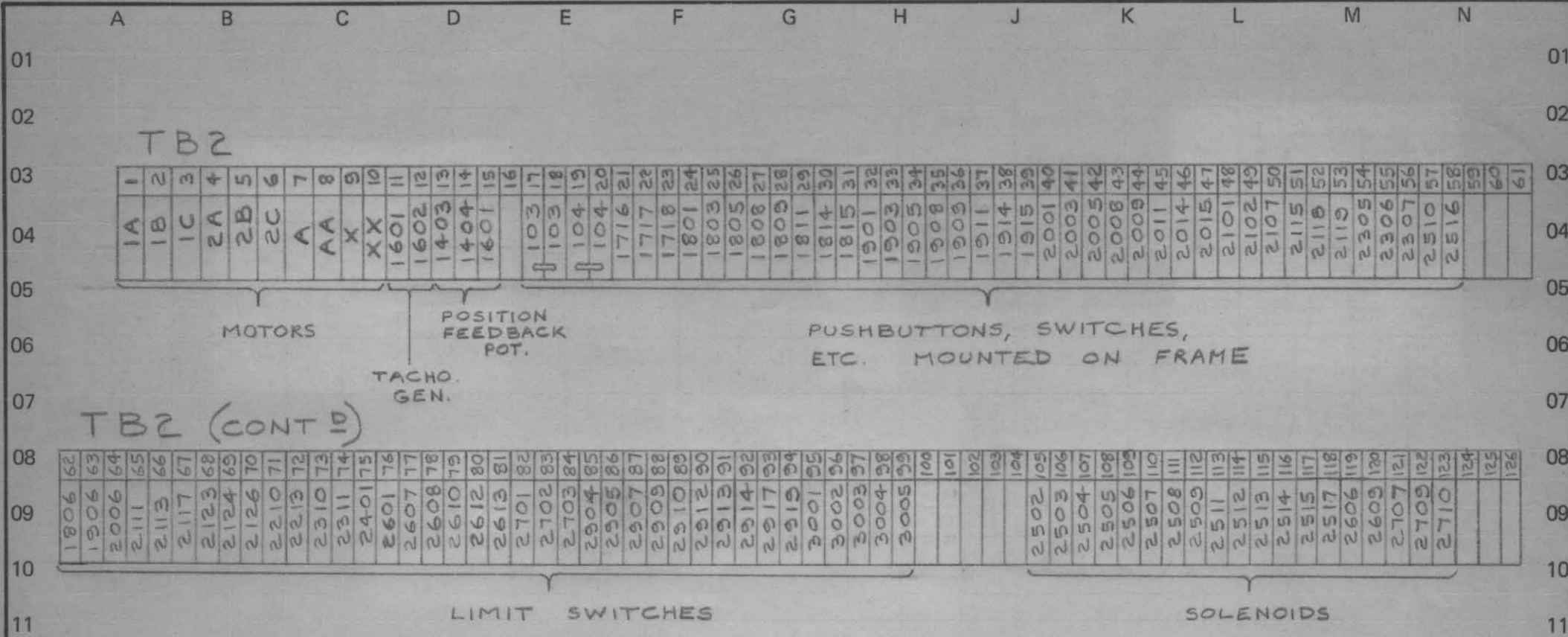
FITTED IN POSITION 1E OF RACK 2

35 902HM100AF Sheet 1

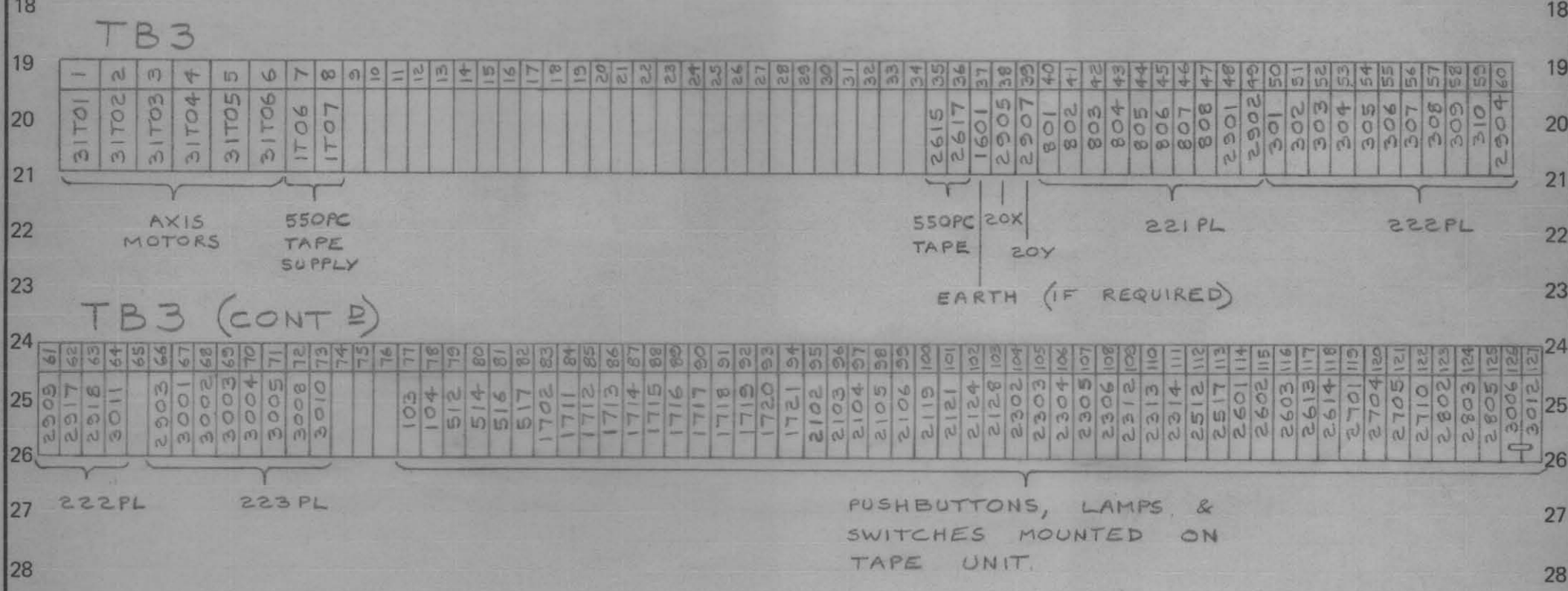
TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	COMPONENT CARD			IDENT	
						27-2-78	60 TON TURRET PUNCH PRESS			DR SH	
							SCOTTISH MACHINE TOOL CORP.			37	
							GO NUMBER			CONTD.	
							722N08 902M102XD			38	



TECHN. ENG. APPD.		TECHN. ENG. APPD.		DATE	27-2-78		 Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.		COMPONENT CARD 60 TON TURRET PUNCH PRESS SCOTTISH MACHINE TOOL CORP.		IDENT DR SH		
		2			RKW				GO NUMBER		722N08		
		FRS				APPD.		HLS		ELEMENTARY DIAGRAM		39	
										CONTD.		38	

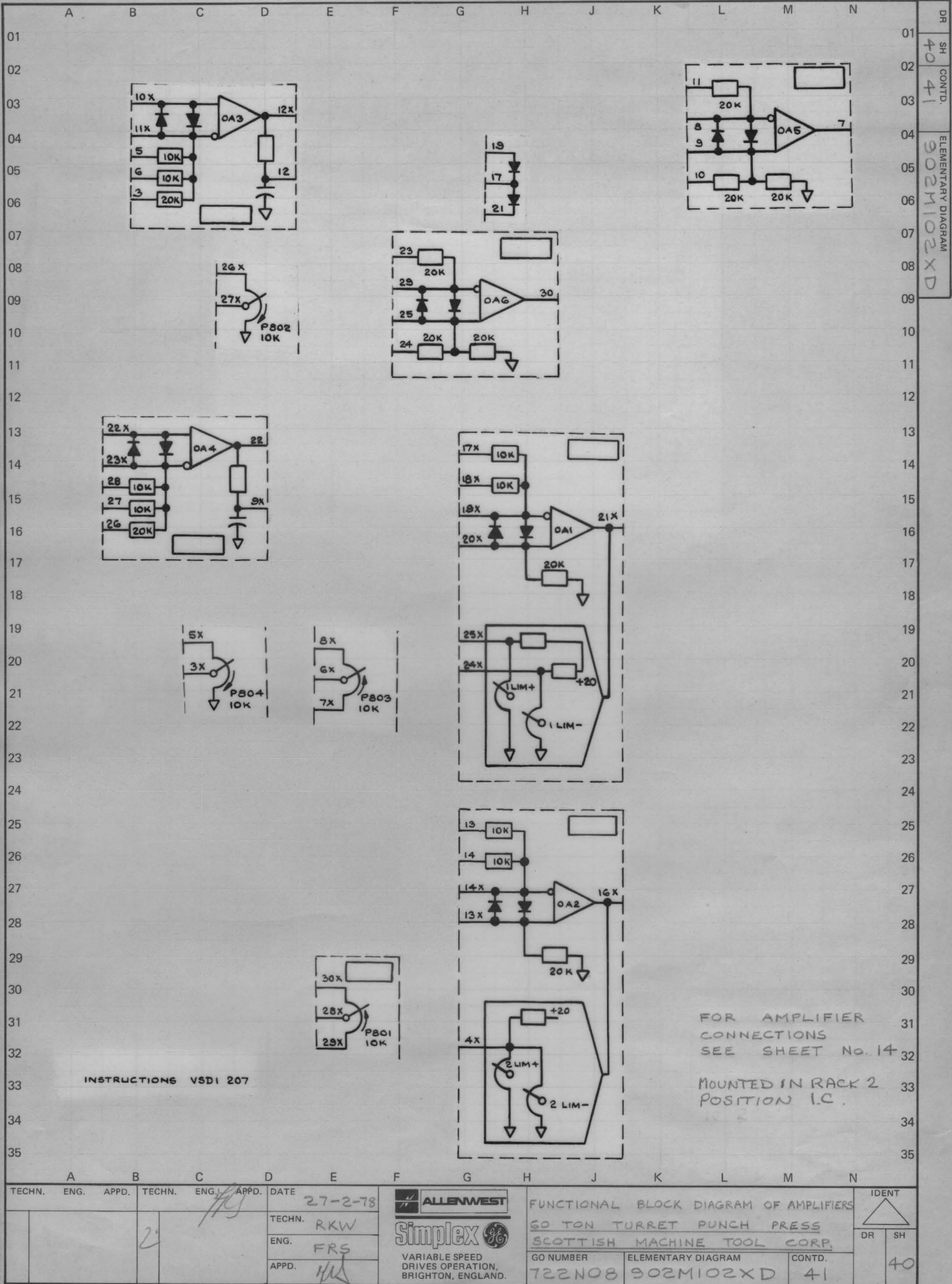


TB2 IS MOUNTED AT BOTTOM OF LH CUBICLE

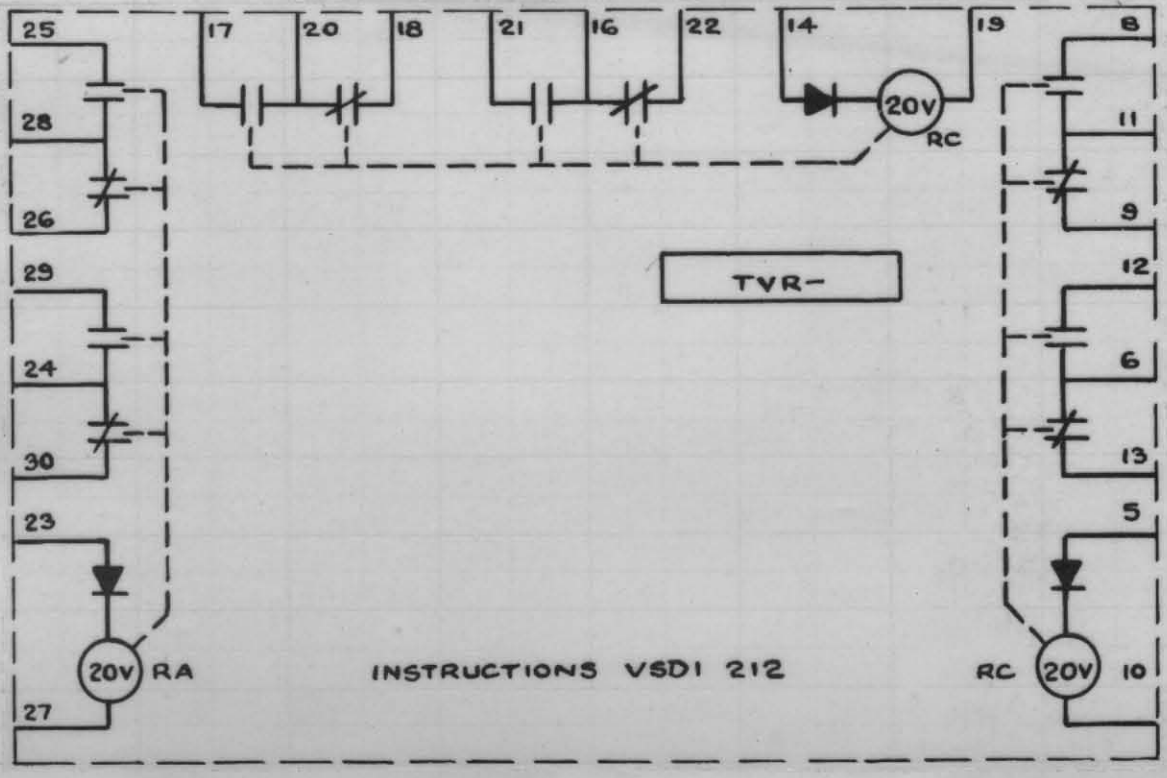


TB3 IS MOUNTED AT BOTTOM OF RH CUBICLE

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27-2-78	ALLENWEST	ARRANGEMENT OF OUTGOING TERMINALS			IDENT
						TECHN.	RKW	Simplex	60 TON TURRET PUNCH PRESS			
						ENG.	FRS	VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	SCOTTISH MACHINE TOOL CORP.			DR SH
						APPD.			GO NUMBER	ELEMENTARY DIAGRAM	CONTD.	39
									722N08	902M102XD	40	



A		B		C		D		E		F		G		H		J		K		L		M		N	
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TECHN.		ENG.		APPD.		TECHN.		ENG.		APPD.		DATE		27-2-78		ALLENWEST		FUNCTIONAL BLOCK DIAGRAM OF 20V. RELAY		IDENT					
																Simplex		60 TON TURRET PUNCH PRESS		DR					
																		SCOTTISH MACHINE TOOL CORP.		SH					
																		GO NUMBER		41					
																		ELEMENTARY DIAGRAM							
																		722N08		902M102XD					
																		CONTD.		FL					



FOR 20V RELAY CONNECTIONS SEE SHEET No. 24
MOUNTED IN RACK 2 POSITIONS 1J & 1K

DR
SH
CONTD.
FL
ELEMENTARY DIAGRAM
902M102XD