

DR
SH
CONT'D
ELEMENTARY DIAGRAM
902M122YY

VOLTAGE POLARITIES SHOWN ARE FOR MOTORING DA1(+)

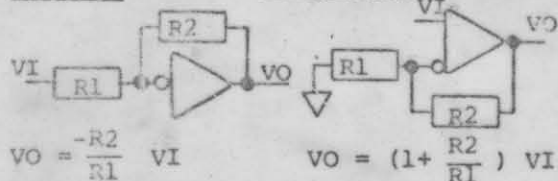
SIGNAL DEFINITIONS AND LOCATIONS

HARDWARE ABBREVIATIONS

MCC MAIN CONTROL CARD
 IFC INTERFACE CARD
 PSC POWER SUPPLY CARD
 SCR THYRISTOR ASSEMBLY
 DGC DIAGNOSTIC CARD
 MFC MOTOR FIELD CONTROL
 MFE MOTOR FIELD EXCITER
 MDR MODIFICATION RACK
 ACC AUXILIARY CONTROL CARD

SYMBOLS

AMPLIFIERS



CASE GROUND

CASE GROUND

VO = SIGN () X ABSOLUTE VALUE OF VI

VO = SIGN () X ABSOLUTE VALUE OF VI

STAB ON TERMINAL

STAB ON TERMINAL

TERMINAL AT 2TB, 3TB, 4TB, RTB.

TERMINAL AT 2TB, 3TB, 4TB, RTB.

EX: 9 [] - 2TB9; X2 [] - RTB X2

TERMINAL AT T.B.'s

POTENTIOMETER ARROWS ON THE CARD

ELEMENTARY DIAGRAMS INDICATE THE
 WIPER DIRECTION AS THE POTENTIOMETER
 SHAFT IS ROTATED CLOCKWISE TO INCREASE
 FUNCTION.

THESE RESISTORS ARE CRIMPED IN WIRE

HARNESS.

FUNCTION	USE	LOC	JUMPERS
60HZ		MFC	ZA-ZB (IF USED)
50HZ		MCC	HZA - PHA
100-400%			(NONE)
-500%		IFC	I - IHI
-300%		IFC	I - ILO
SR5 - 9v			(NONE)
9 - 20v		MCC	SRH - COM
JOG 10v			(NONE)
20v		MCC	JH - COM
LT 3-7sec			(NONE)
2 - 60sec			332Ω FROM LTI TO COM
VREG			NT-CEMF CC-COM
DC TACHO			(NONE)
AC TACHO		MCC	AT1 - AT2
TACHO FILT		IFC	TC - TC
TACHO V.		IFC	NT-NT1 PT - PT1
24-64vdc		IFC	NT-NT1 PT - PT1
27-71vac		IFC	NT-NT2 PT - PT2
60-160vdc		IFC	NT-NT2 PT - PT2
66-177vac		IFC	NT-NT3 PT - PT3
110-300vdc		IFC	NT-NT3 PT - PT3
120-300vac		IFC	NT-NT3 PT - PT3
G134 G256		IFC	MFC OR MFE
1.3 1.7		MF	NONE
2.4 2.8		MF	YB - YD
4.0 5.0		MF	YA - YB
7.0 8.0		MF	YA-YB, YC-YD
13 13		MF	YA - YC
25 25		MF	YA-YC, YB-YD
L/R < .25S		MFC	QA - QB
INH RUN		DGC	D1-D2 (IF USED)
INH DRV CL		MCC	DC1 - COM
FUSELESS		ACC	CFY - CFX

* CEMF COUNTER EMF (IC16)
 * CFB CURRENT FEEDBACK (IC16)
 CMFA ABSOLUTE VALUE CEMF (IC08)
 CRM CROSSOVER MODIFY (ID11)
 DFP DELAYED FIRING POWER (IC25)
 * DR DRIVER REFERENCE (IC33)
 * EAO ERROR AMP OUTPUT (IC33)
 EST EXTERNAL FLT STOP INPUT (IC14)
 FALT FAULT (IC14)
 * FC FIELD CURRENT (NS26)
 FDR FIELD DIAGNOSTIC REFERENCE (ID08)
 FEA FIELD ECONOMY ADJUST (IC25)
 FF FIELD FAULT (IB33)
 IABS MOTOR CURRENT ABSOLUTE (IC09)
 ILA CURRENT LIMIT ADJUST (IC23)
 IMET CURRENT SIGNAL FOR METER (IC10)
 * IPU INITIAL PULSE (IC20)
 * LR LOCAL REF. FROM DGC (IC33)
 * JOG JOG SWITCH INPUT (IC23)
 * JOGR JOG REFERENCE INPUT (IC31)
 * MAC MAX/MA CONTROL SIGNAL (IC20)
 MSW MODE SWITCH (IC30)
 * OSC OSCILLATOR (IC17)
 * PCR PHASE CONTROL REF. (IC26)
 * PRE DRIVE PRECONDITION (IC21)
 ØSEQ PHASE SEQUENCE (IC14)
 RERR REGULATOR ERROR (IC27)
 RIJ INTEGRATOR SUMMING JUNCTION (IC27)
 RJ REGULATOR SUMMING JUNCTION (IC31)
 RRA REGULATOR RESPONSE ADJUST (IC30)
 RSET RESET (IC16)
 * RTR READY TO RUN (IC16)
 * RUN RUN SWITCH INPUT (IC21)
 * SA-C PHASE SYN OUTPUT (IC16)
 * SFB SPEED FEEDBACK (IC20)
 SMET SPEED SIGNAL FOR METER (IC12)
 * SR SYSTEM REFERENCE INPUT (IC29)
 * SYS SYSTEM FAULT TRIP (IC13)
 * TA OUTPUT FOR TACHO TRIP ADJUST (IC20)
 TF TACHO FAULT (NS28)
 * TFB TACHOMETER FEEDBACK (IC20)
 TFR AC TACHO FREQUENCY OUTPUT (IC13)
 * TR TIMED REFERENCE (IC33)
 * VFB VOLTAGE FEEDBACK (IC19)
 * WFR WEAK FIELD REFERENCE (IC20)

(* - TEST POINT ON DOOR FRONT)

MAPPING SYSTEM

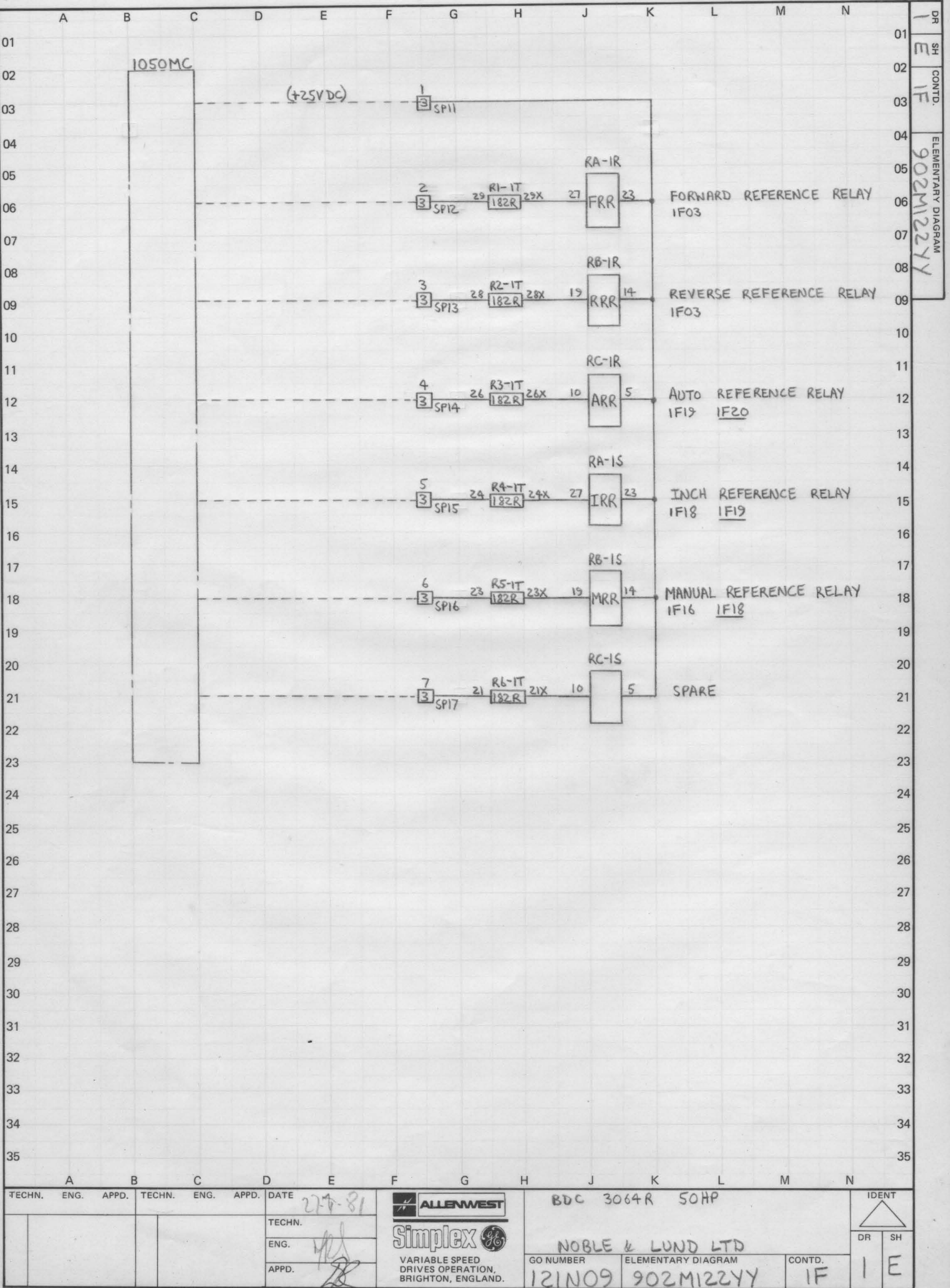
(NS/PS/TS) PS - PAST SHEET
 NS - NEXT SHEET
 TS - THIS SHEET

HENCE (PS - 12) DENOTES LOCATION ON PAST SHEET LINE 12. OTHER LOCATIONS ARE
 DENOTED BY SHEET NUMBER AND LINE? E.G. (1A16) SIGNIFIES LOCATION ON SHEET
 1A, LINE 16 ETC.

NOTE: FIELD EFFECT TRANSISTOR: THE
 CLOSED/OPEN (I/O) STATE OF THESE
 SWITCHED FOR "PRECONDITION" - "RUN"
 OR JOG - "DIAGNOSTIC STATIC" -
 "DIAGNOSTIC RUN" IS SHOWN BY A
 FOUR DIGIT WORD WITH STATE SEQUENCE.

SEE ALSO DIAGRAM 306P118CD

TECHN.	ENG.	APPD.	TECHN.	ENG.	APPD.	DATE	27.7.81	ALLEN/WEST	BDC 3064R 50HP	IDENT	OR	SH
						TECHN.		Simplex	NOBLE & LUND LTD			
						ENG.		VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.	GO NUMBER	ELEMENTARY DIAGRAM	CONTO	
						APPD.			12IN09	902M122YY	IB	1 A



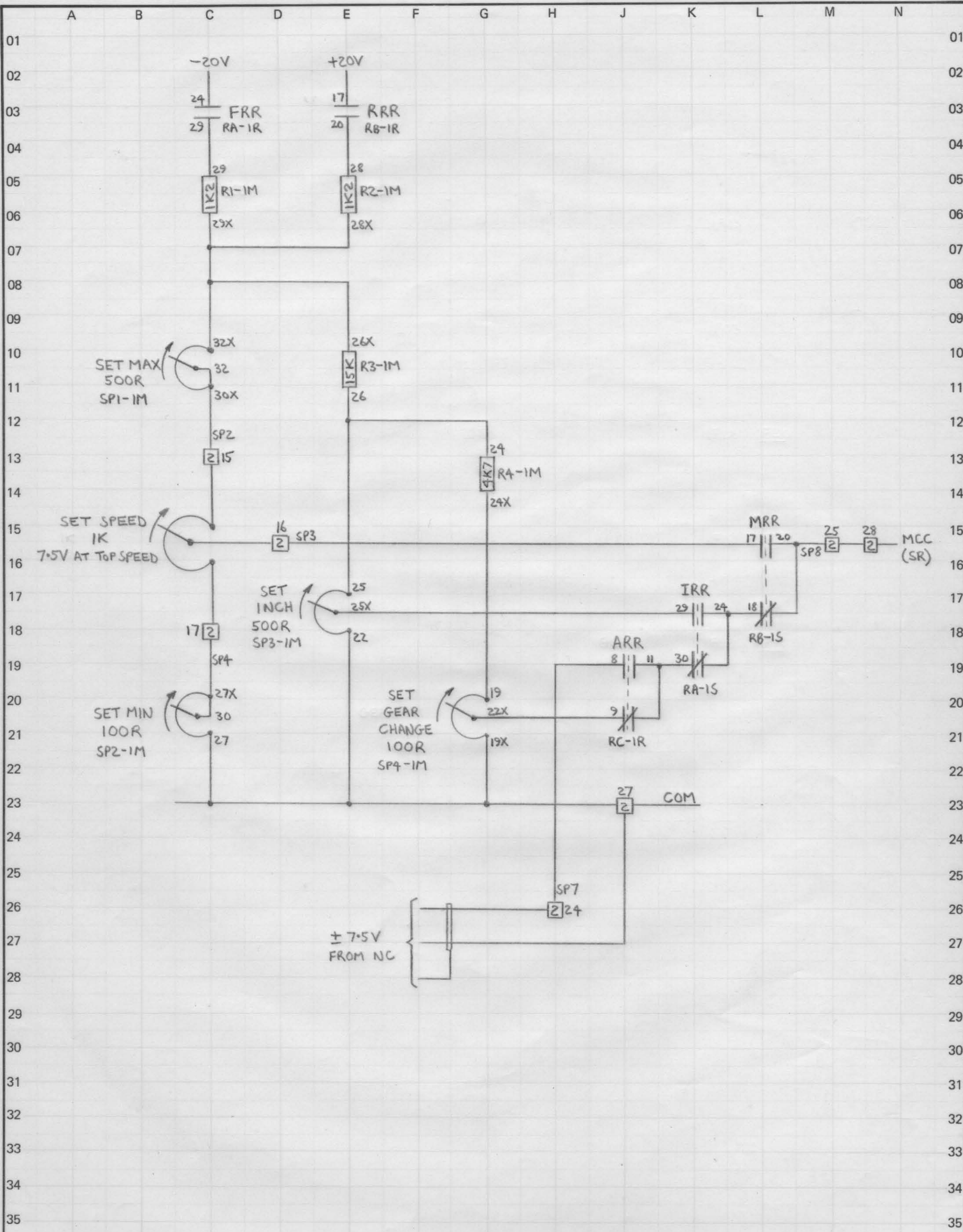
DR SH CONTD. ELEMENTARY DIAGRAM 902M122YY

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						27-7-81	NOBLE & LUND LTD		DR SH	
							GO NUMBER 121N09		IF	
							ELEMENTARY DIAGRAM 902M122YY		E	

Allenwest Simplex VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

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DR SH CONTD. ELEMENTARY DIAGRAM
 1 F 1G 902M122YY



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						27-7-81	NOBLE & LUND LTD		DR SH	
							GO NUMBER		121N09	
							ELEMENTARY DIAGRAM		902M122YY	
							CONTD.		1G	
									1 F	

Allenwest
 Simplex
 VARIABLE SPEED DRIVES OPERATION, BRIGHTON, ENGLAND.

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