

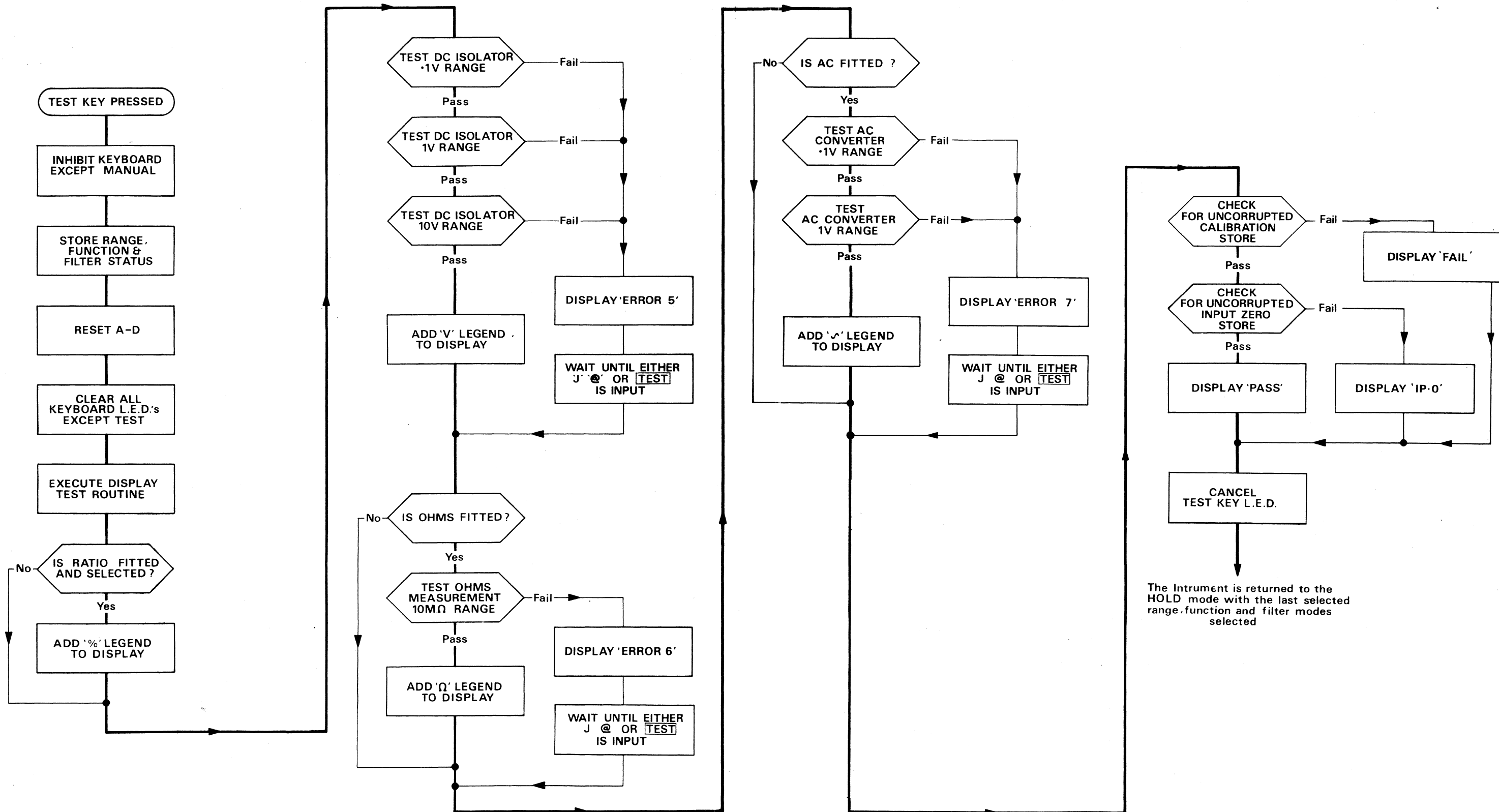
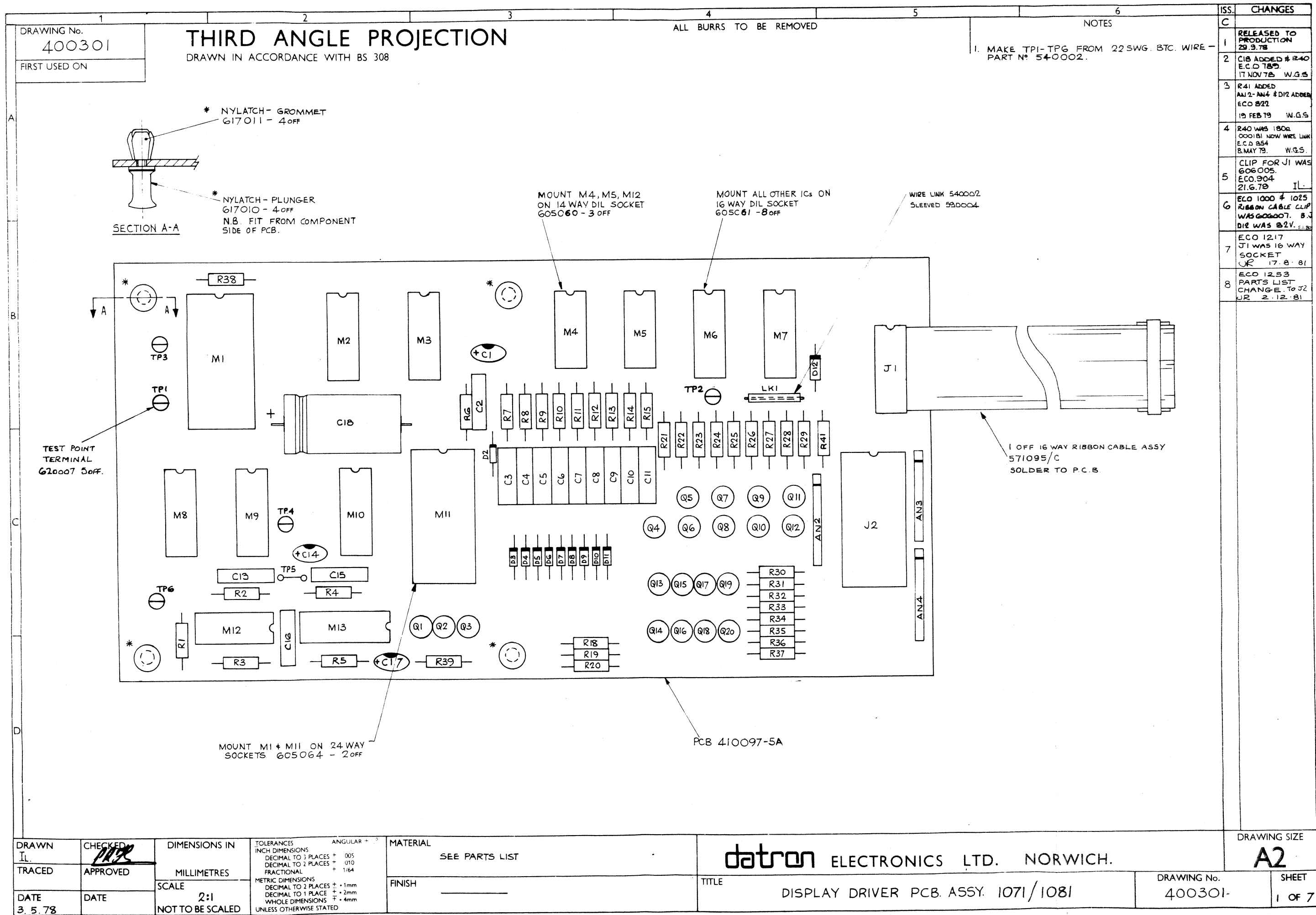
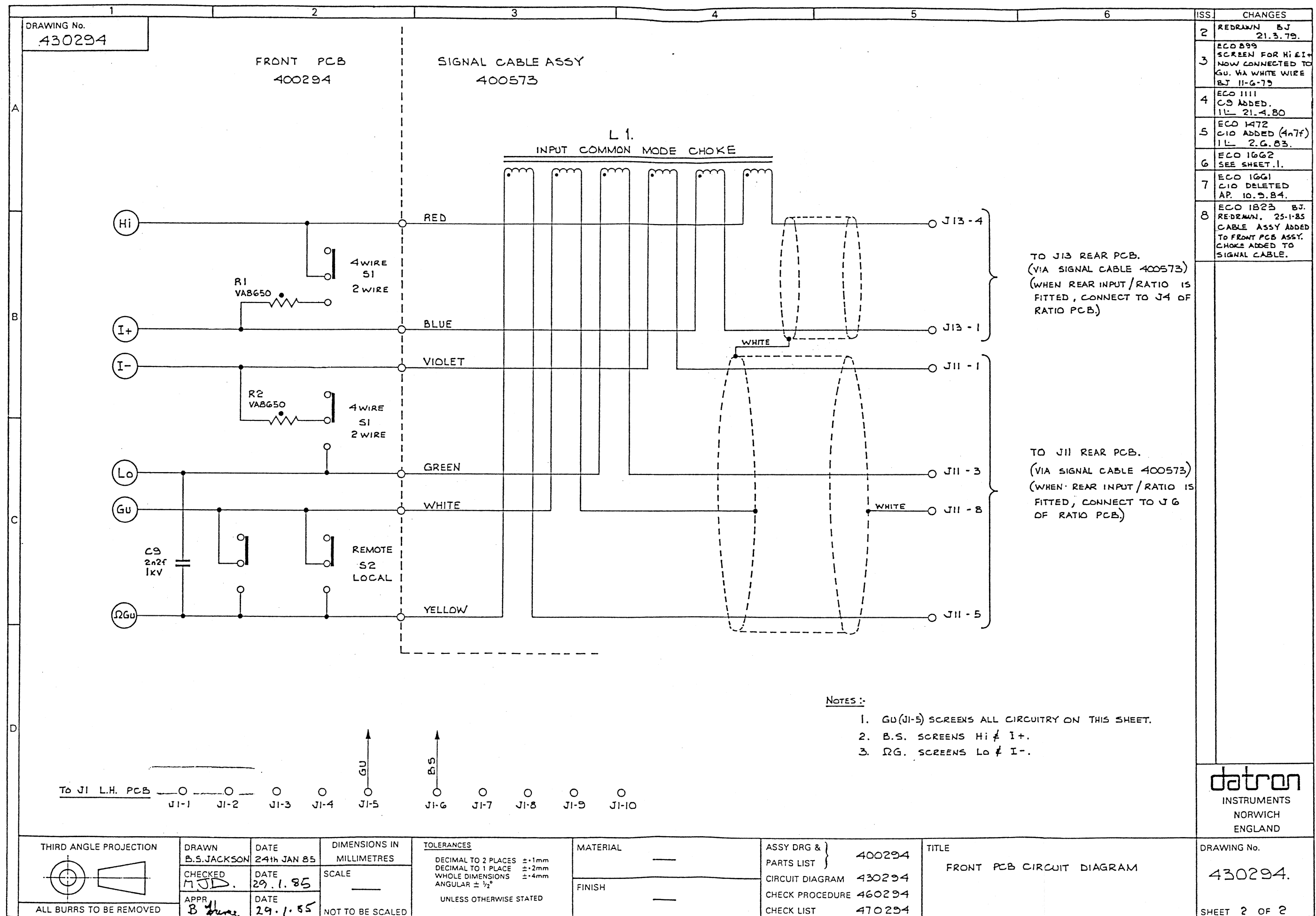


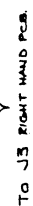
Fig. 3.52 FLOWCHART OF SELF-TEST ROUTINE

DRAWING SIZE	
A1	
SHEET	OF

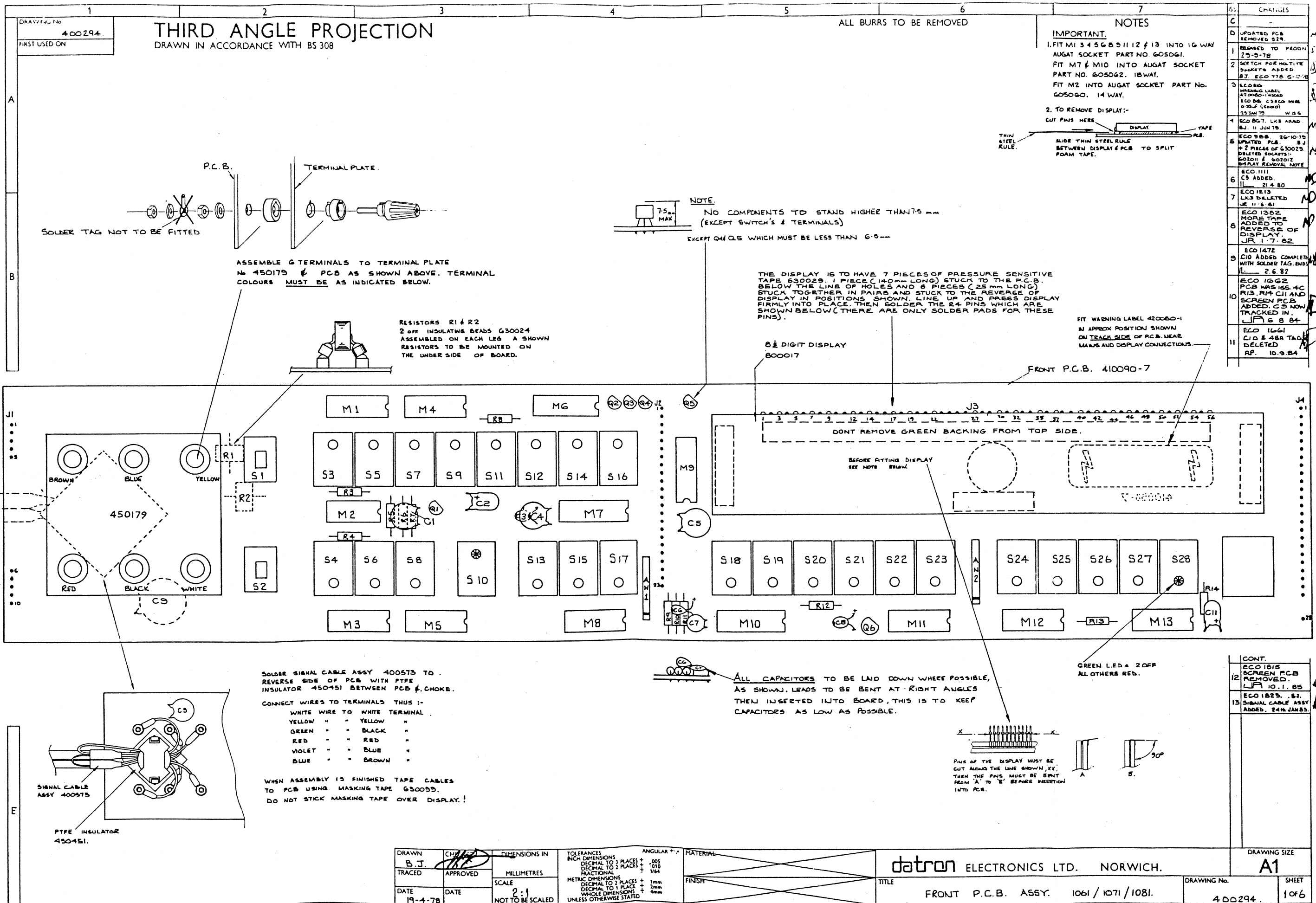


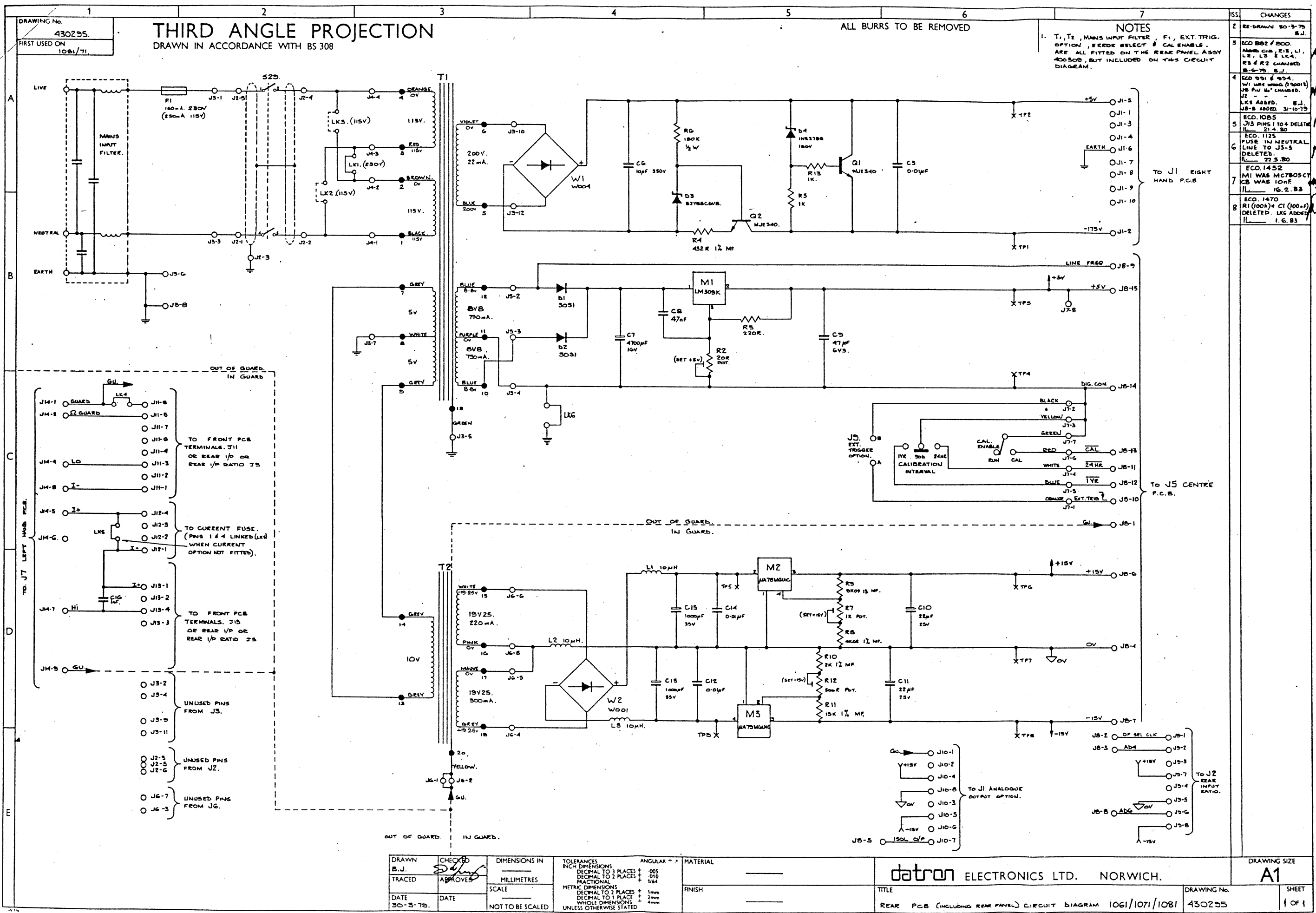


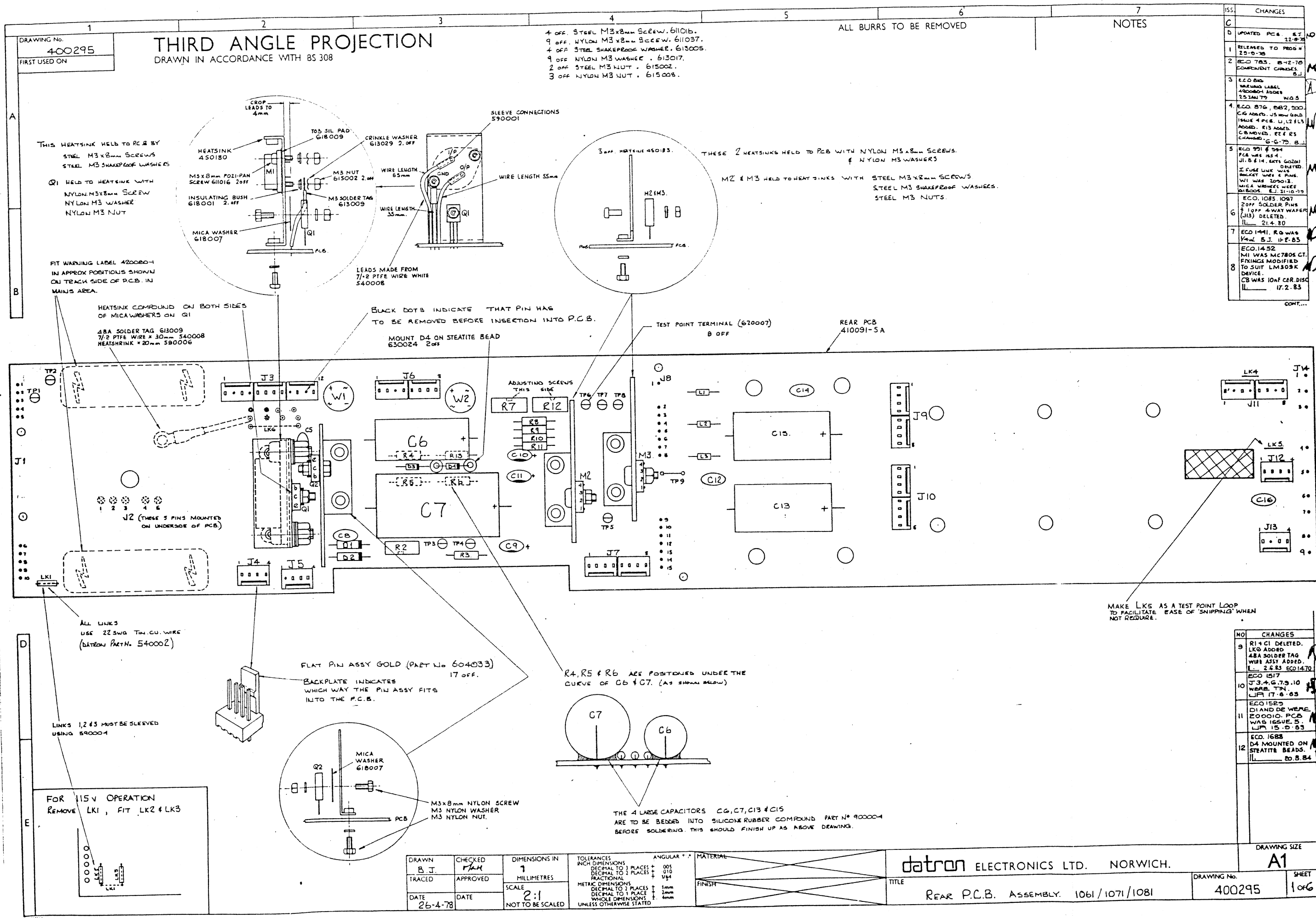
CHANGES	
2	1 DRAWN. B.J. 11.3.79
3	ECO 032 869 CHANGE ON SWT2 B.J. 11.6.79
4	ECO 1111 SEE SWT 2 1L 214.80
5	ECO 1472 C10 ADDED (4n7F) 1L 2.6.B3
6	ECO 1662 1L 2.14.C11 AND SCREEN PCB ADDED. ON M4.5 G.B.9.11 AND M12 PIN IS WENT TO V AND PIN16 WAS NC M2 PIN 14 WAS NC 1L 7.8.B4
7	ECO 1661 SEE SWT 2 1P 10.9.B4
8	ECO 1823. SEE SWT 2. B.J. 24TH JAN 80

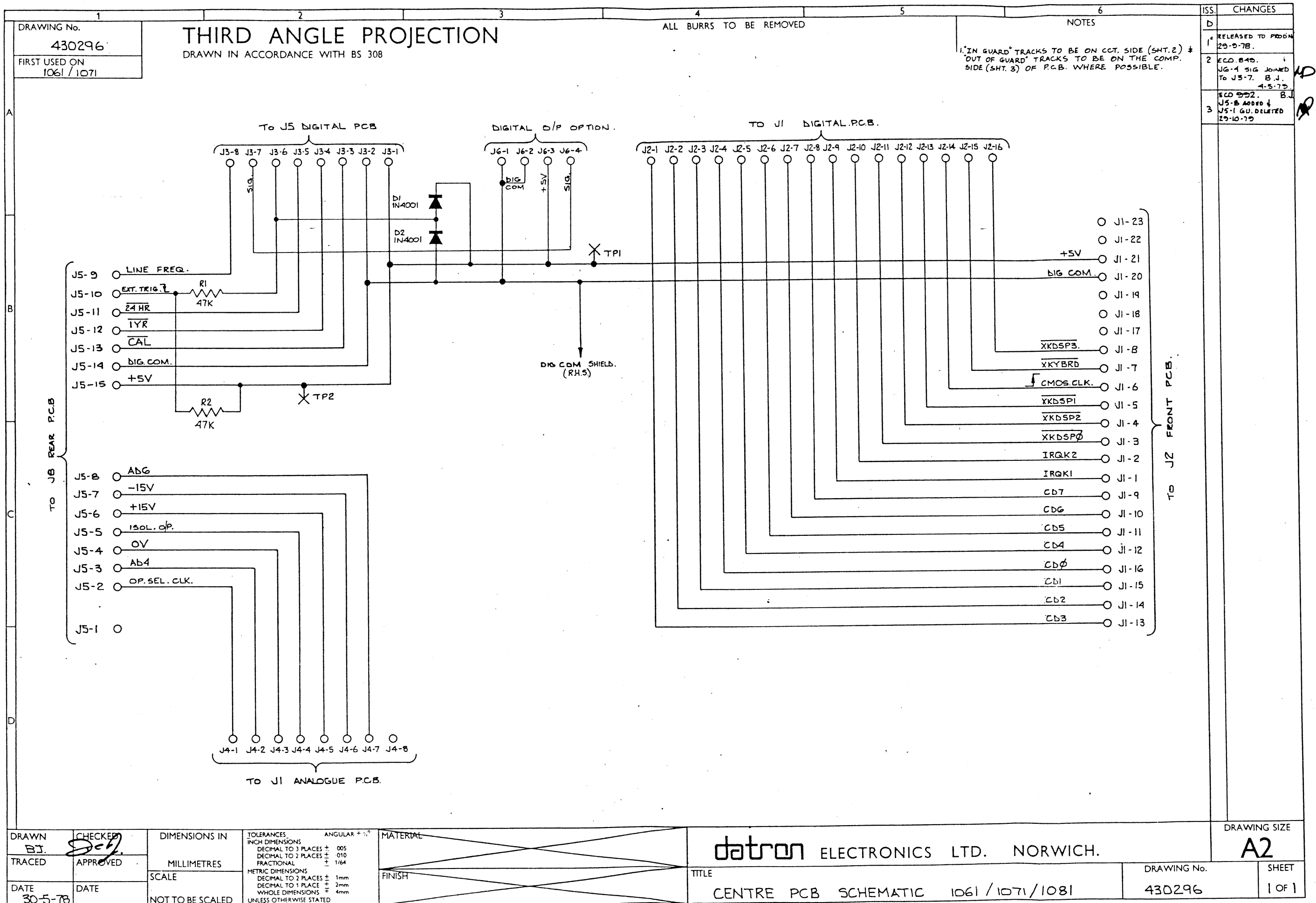


DRAWN RJ	CHECKED D.R.H.	DIMENSIONS IN —	TOLERANCES INCH DIMENSIONS DECIMAL TO 2 PLACES + .005 DECIMAL TO 2 PLACES + .010 FRACTIONAL + 1/64	ANGULAR —	MATERIAL —	datron ELECTRONICS LTD. NORWICH.	DRAWING SIZE A1
TRACED	APPROVED	MILLIMETRES SCALE — NOT TO BE SCALED	METRIC DIMENSIONS DECIMAL TO 2 PLACES + 1mm DECIMAL TO 1 PLACE + 2mm WHOLE DIMENSIONS + mm UNLESS OTHERWISE STATED	FINISH —	TITLE FRONT PCB. CIRCUIT DIAGRAM 1061/1071/1081		DRAWING No. 430294
DATE 21-3-75	DATE						









DRAWN
BJ.

TRACED

DATE
30-5-78

CHECKED
S-9

APPROVED

DATE

DIMENSIONS IN
MILLIMETRES

SCALE
NOT TO BE SCALED

TOLERANCES
INCH DIMENSIONS
DECIMAL TO 3 PLACES ± .005
DECIMAL TO 2 PLACES ± .010
FRACTIONAL ± 1/64

METRIC DIMENSIONS
DECIMAL TO 2 PLACES ± 1mm
DECIMAL TO 1 PLACE ± 2mm
WHOLE DIMENSIONS ± 4mm
UNLESS OTHERWISE STATED

MATERIAL

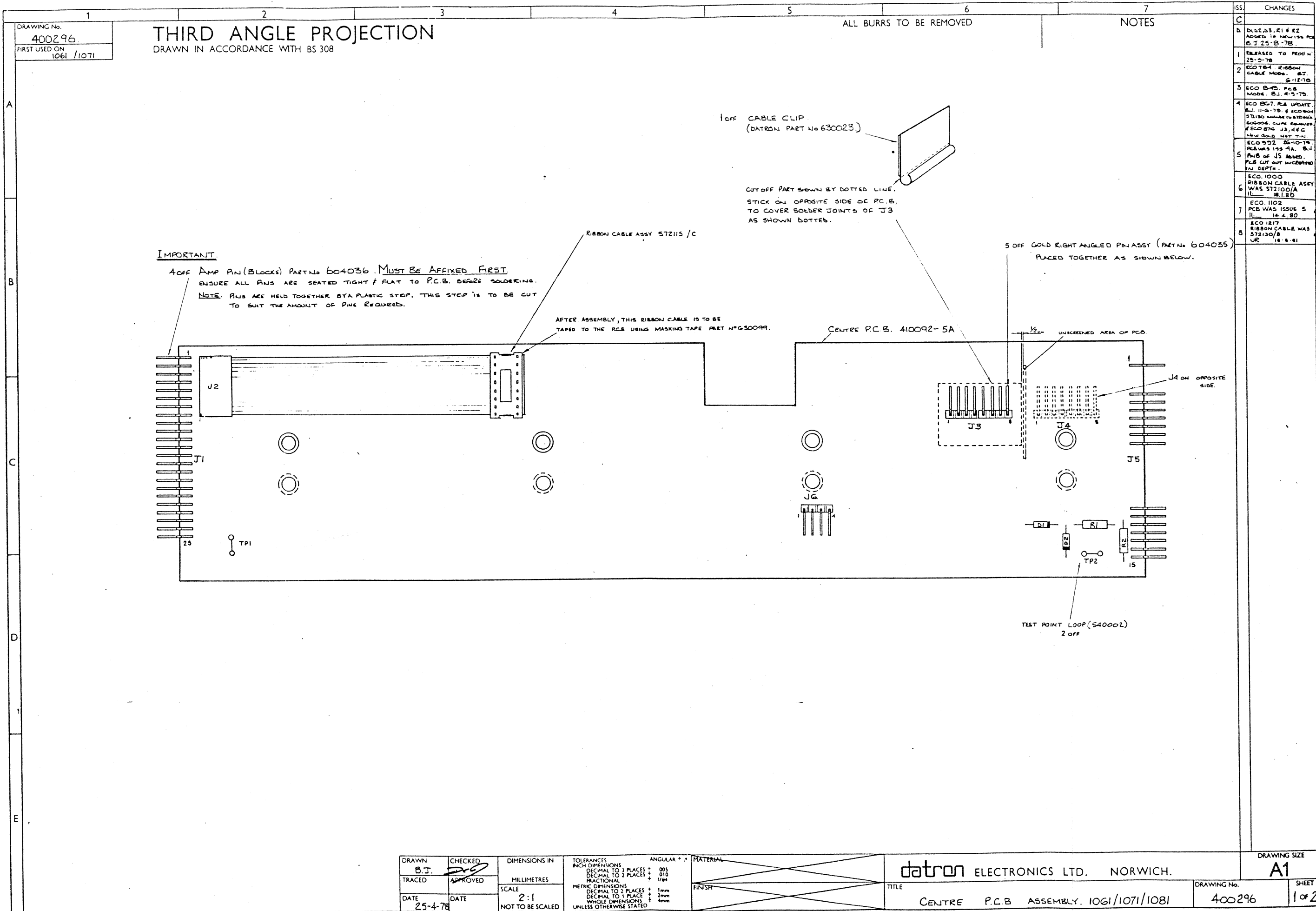
FINISH

datron ELECTRONICS LTD. NORWICH.

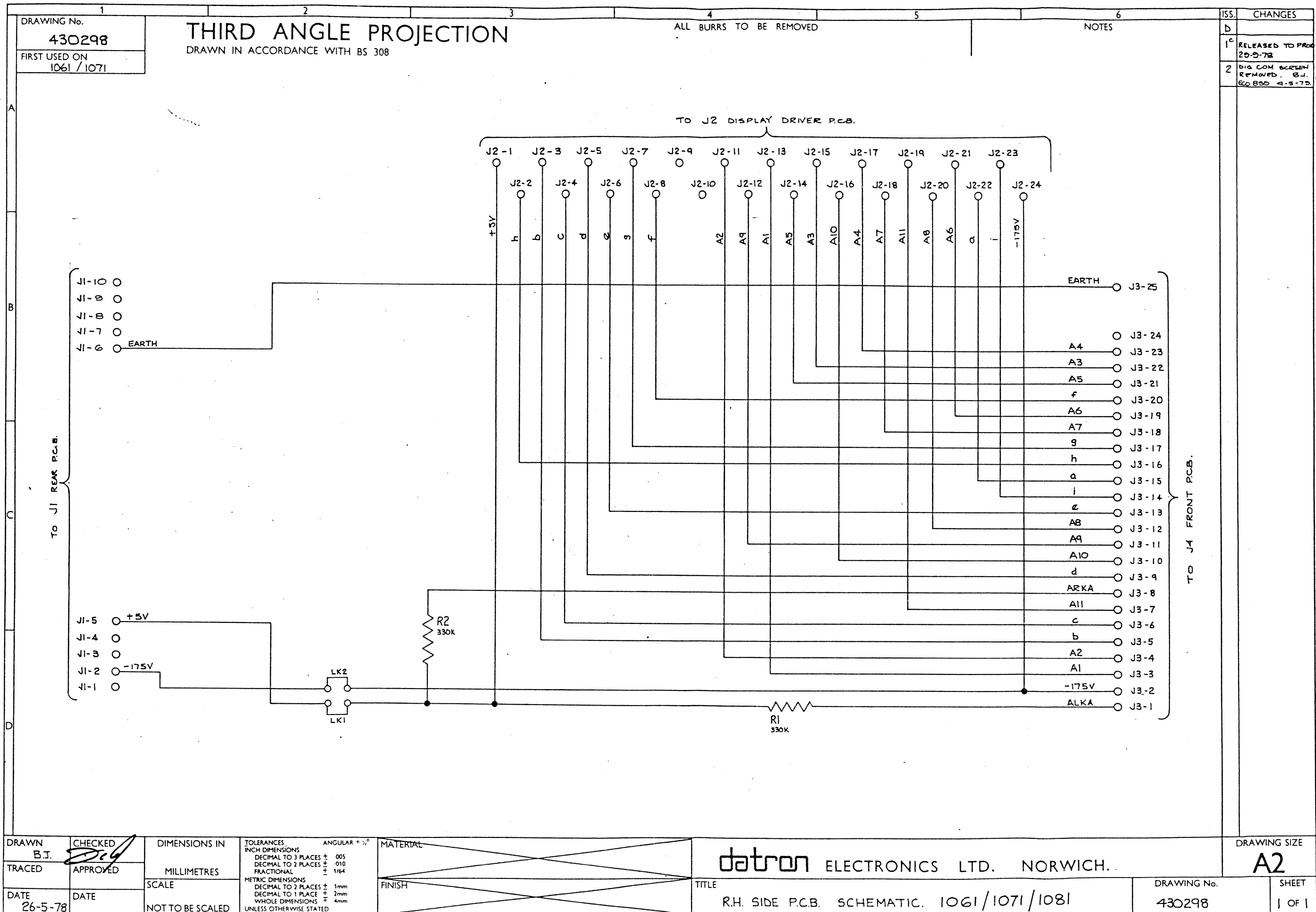
TITLE
CENTRE PCB SCHEMATIC 1061/1071/1081

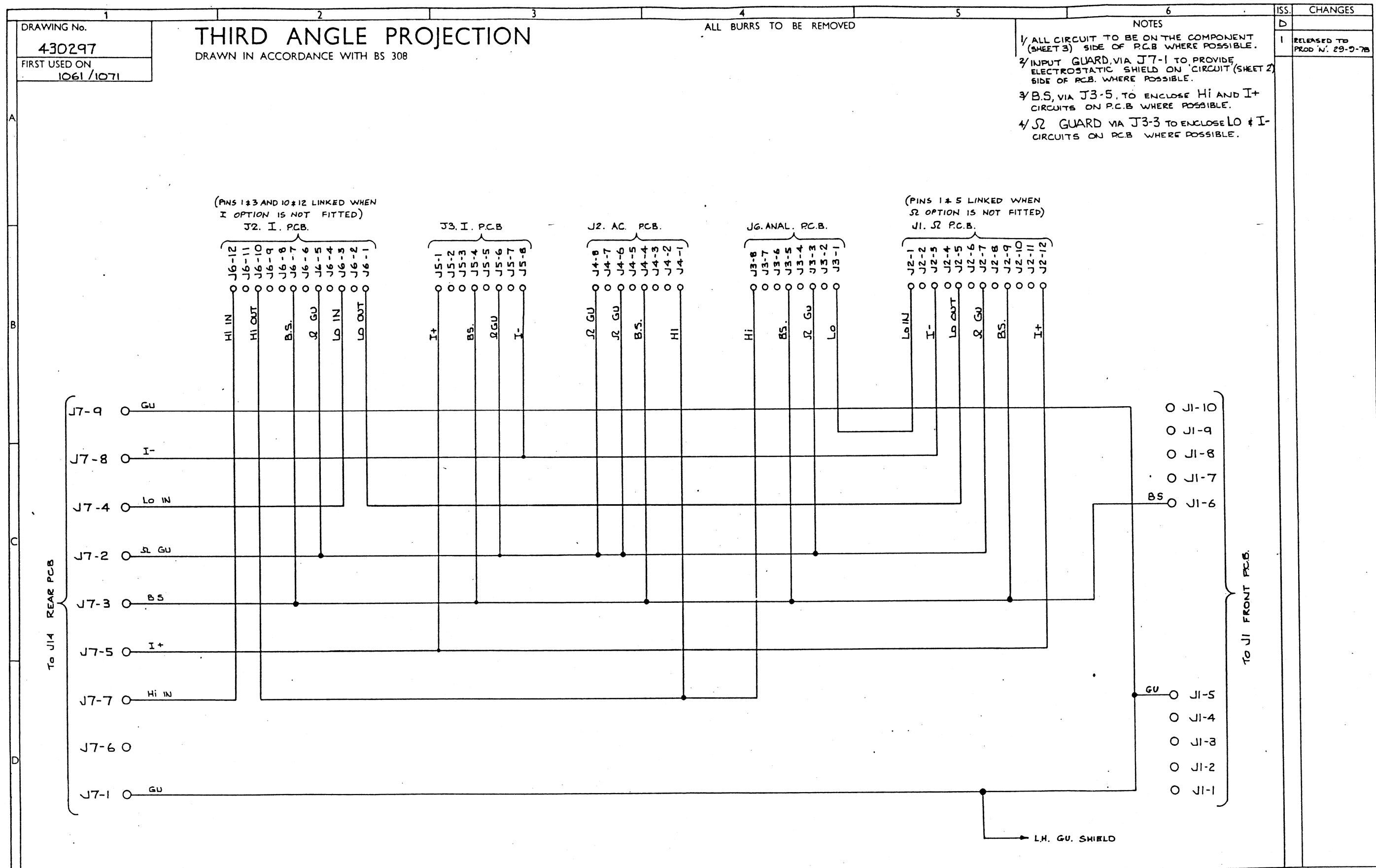
DRAWING No.
430296

SHEET
1 OF 1

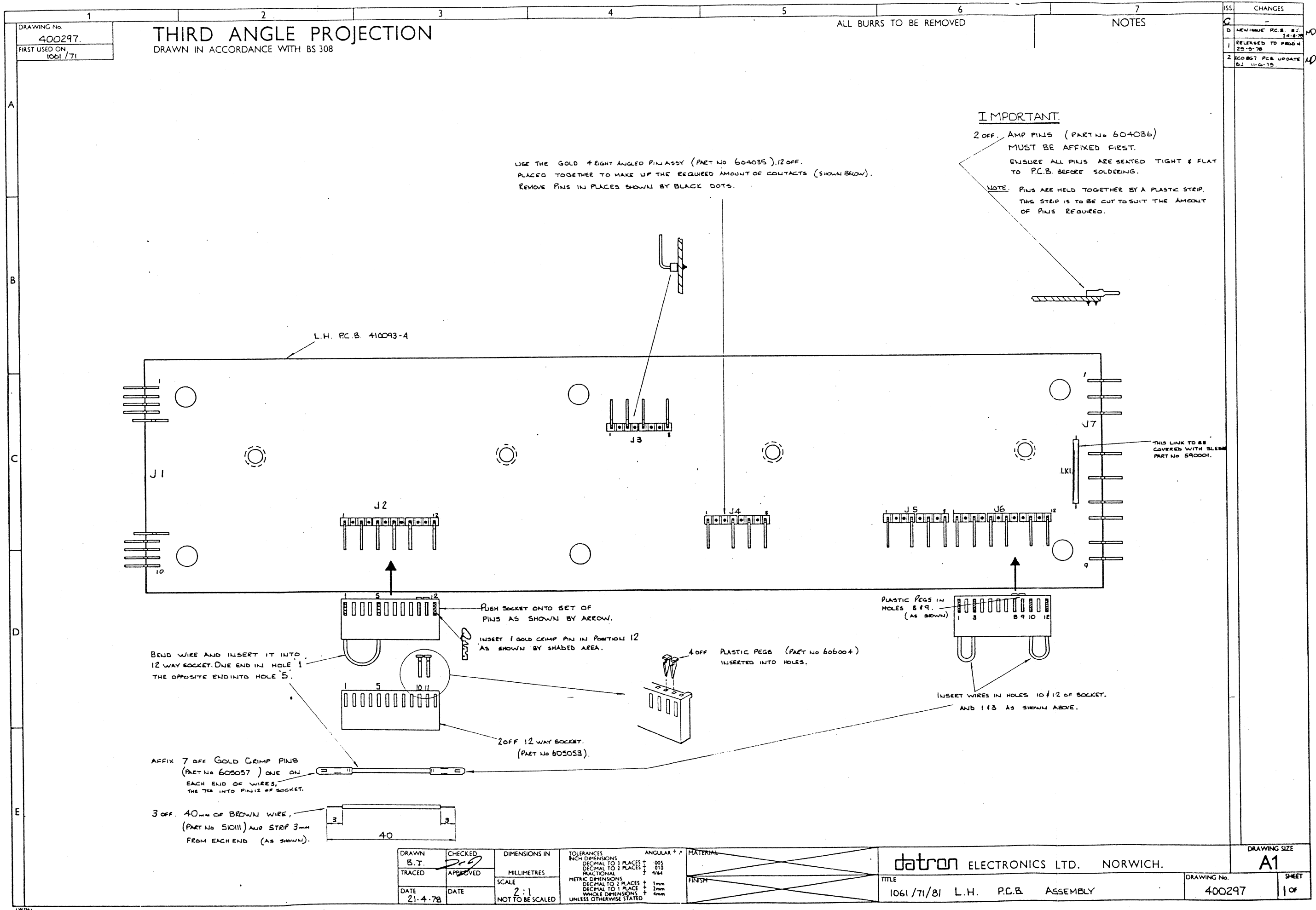


CENTRE PCB





DRAWN B.T.	CHECKED 	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES $\pm$.005 DECIMAL TO 2 PLACES $\pm$.010 FRACTIONAL $\pm$ 1/64 METRIC DIMENSIONS DECIMAL TO 3 PLACES $\pm$ 1mm DECIMAL TO 2 PLACES $\pm$ 2mm DECIMAL TO 1 PLACE $\pm$ 4mm WHOLE DIMENSIONS $\pm$ 4mm UNLESS OTHERWISE STATED	MATERIAL	datron ELECTRONICS LTD. NORWICH.	DRAWING SIZE A2
TRACED	APPROVED	SCALE NOT TO BE SCALED		FINISH	TITLE L.H. P.C.B. SCHEMATIC 1061/1071/1081	
DATE 30.5.78	DATE				DRAWING No. 430297	SHEET 1 of 1



DRAWING No. 400298.		THIRD ANGLE PROJECTION				ALL BURRS TO BE REMOVED		NOTES		ISS. CHANGES	
FIRST USED ON 10/61/71		DRAWN IN ACCORDANCE WITH BS 308								C	
										D NEW ISSUE P.C.B. 8.3.24.8.71	
										1 RELEASED TO PRODUCE 25.5.78.	
										2 ECO 850. 4.5.79. UPDATES P.C.B. 8.3. J1-6 WAS REMOVED.	
										3 ECO 857 & 504. 8.1. UPDATES P.C.B. CABLE ASSY 40094-4A CHANGED TO 574270/A	
										4 ECO 943. 10.5.79 RIBBON CABLE ASSY. WAS 574250/A IL	
										5 ECO 1217 J2 WAS +00365. UR 12.8.81	
										6 ECO 1474. PCB ISSUE N° WAS 4 IL 3.6.83	

LINKS USE 22gawg
TINNED CU WIRE.
DATEON PART No 540002.

LK1 LK2

LK1 & LK2 MUST BE COVERED WITH
SLEEVE PART NO 590001.

RIGHT HAND SIDE P.C.B 410094-4A

R1
R2

J1

J2

J3

25

RIBBON CABLE ASSY
PART No 574270/c

NOTE: WHEN SOLDERING CABLE PLUG
INTO BOARD ENSURE THAT
THE PLUG BODY SITS FLAT
AGAINST PCB.

AFTER ASSEMBLING PCB WRAP THE
ABOVE RIBBON CABLE BOUND THE PCB
AND TAPE DOWN USING MASKING
TAPE PART No G30099.

IMPORTANT

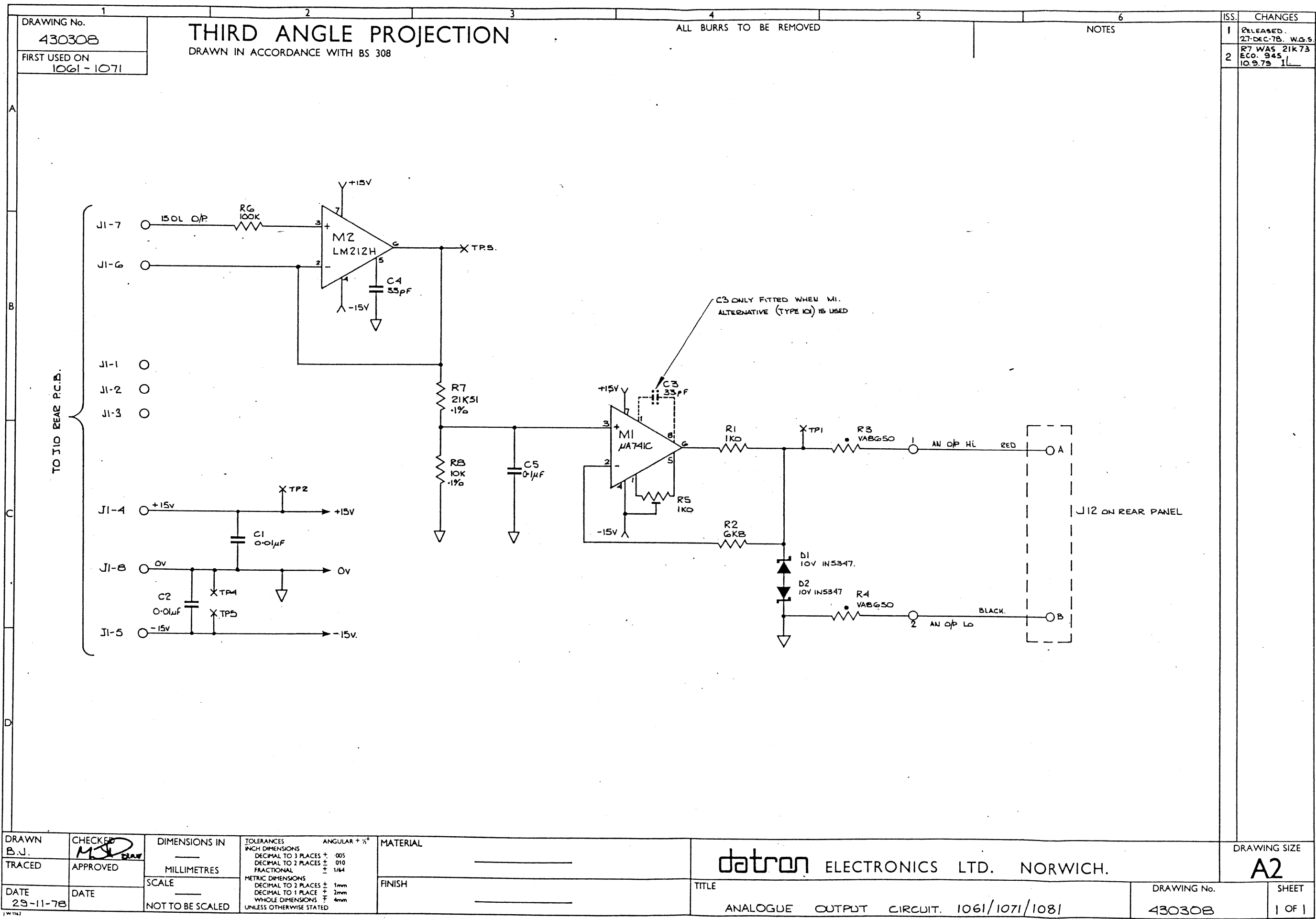
AMP PINS (DATEON PART No.604036.) 40FF
MUST BE AFFIXED TO P.C.B FIRST.
ENSURE ALL PINS ARE SEATING TIGHTLY AND FLAT
TO PCB. BEFORE SOLDERING.

NOTE: PINS ARE HELD TOGETHER BY PLASTIC STRIP.
THIS STRIP IS TO BE CUT TO SUIT THE AMOUNT OF PINS REQUIRED.

FOR EXAMPLE ABOVE 2 BLOCKS OF 5 PINS ARE REQUIRED,
THEREFORE STRIP OF 10 PINS TO BE CUT IN HALF.

DRAWN B.J.	CHECKED APPROVED	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES + .005 - .010 DECIMAL TO 2 PLACES + .010 - .015 FRACTIONAL METRIC DIMENSIONS DECIMAL TO 3 PLACES + 1mm - 2mm DECIMAL TO 2 PLACES + 2mm - 4mm WHOLE DIMENSIONS UNLESS OTHERWISE STATED	ANGULAR 2°	MATERIAL	datron ELECTRONICS LTD. NORWICH.		DRAWING SIZE A1	
DATE 20.4.78.	DATE	SCALE 2:1 NOT TO BE SCALED			FINISH	TITLE 1061/71/81. R.H. PCB. ASSEMBLY.		SHEET 1 of 2	

R.H. PCB



DRAWN
B.J.

CHECKED
M.S.D.

TRACED

DATE
29-11-78

DIMENSIONS IN
MILLIMETRES

SCALE
NOT TO BE SCALED

TOLERANCES
INCH DIMENSIONS
DECIMAL TO 3 PLACES ± .005
DECIMAL TO 2 PLACES ± .010
FRACTIONAL ± 1/64
METRIC DIMENSIONS
DECIMAL TO 2 PLACES ± 1mm
DECIMAL TO 1 PLACE ± 2mm
WHOLE DIMENSIONS ± 4mm
UNLESS OTHERWISE STATED

ANGULAR ± 1°

MATERIAL

FINISH

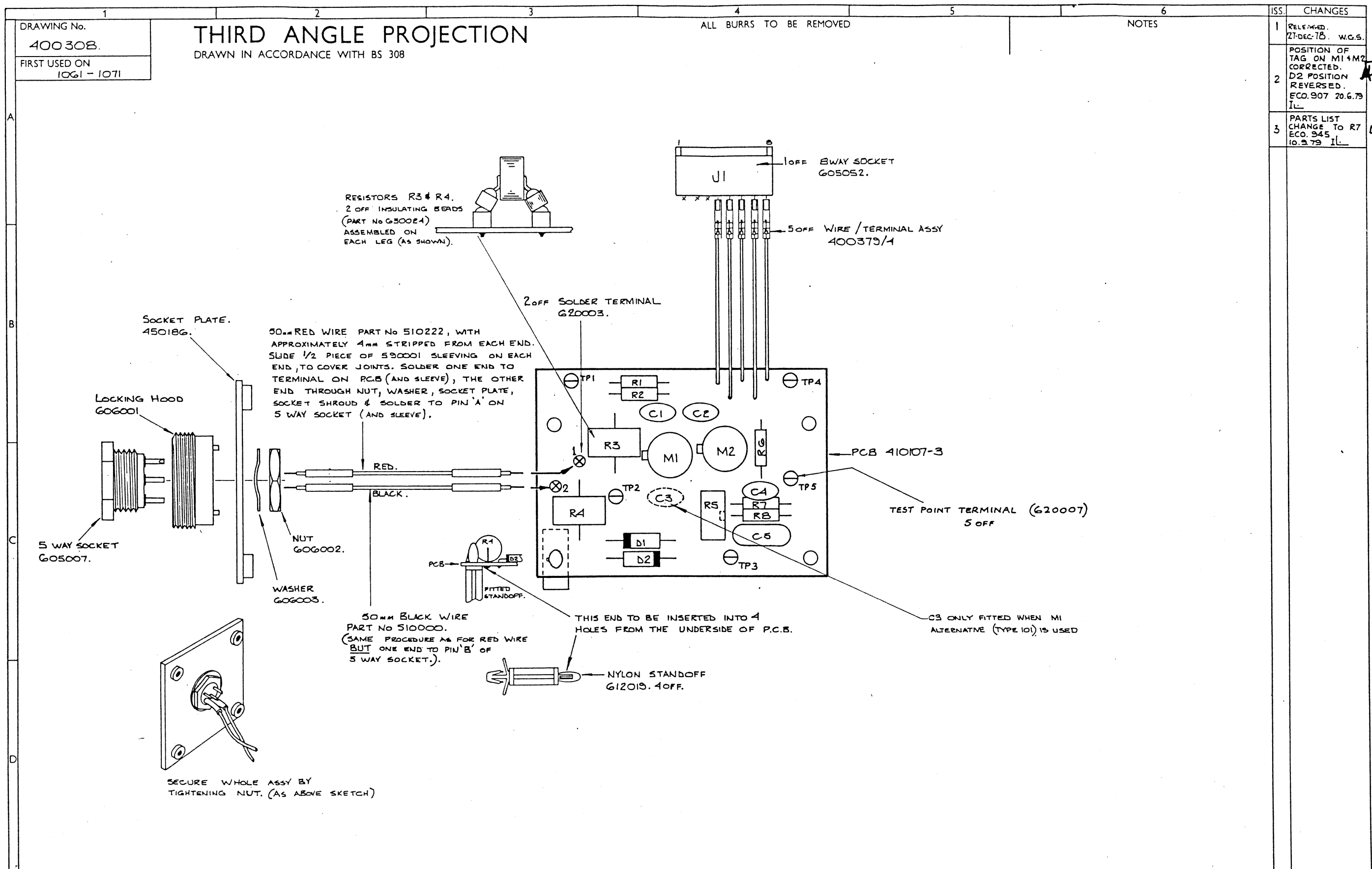
datron ELECTRONICS LTD. NORWICH.

TITLE
ANALOGUE OUTPUT CIRCUIT. 1061/1071/1081

DRAWING No.
430308

SHEET
1 OF 1

DRAWING SIZE
A2



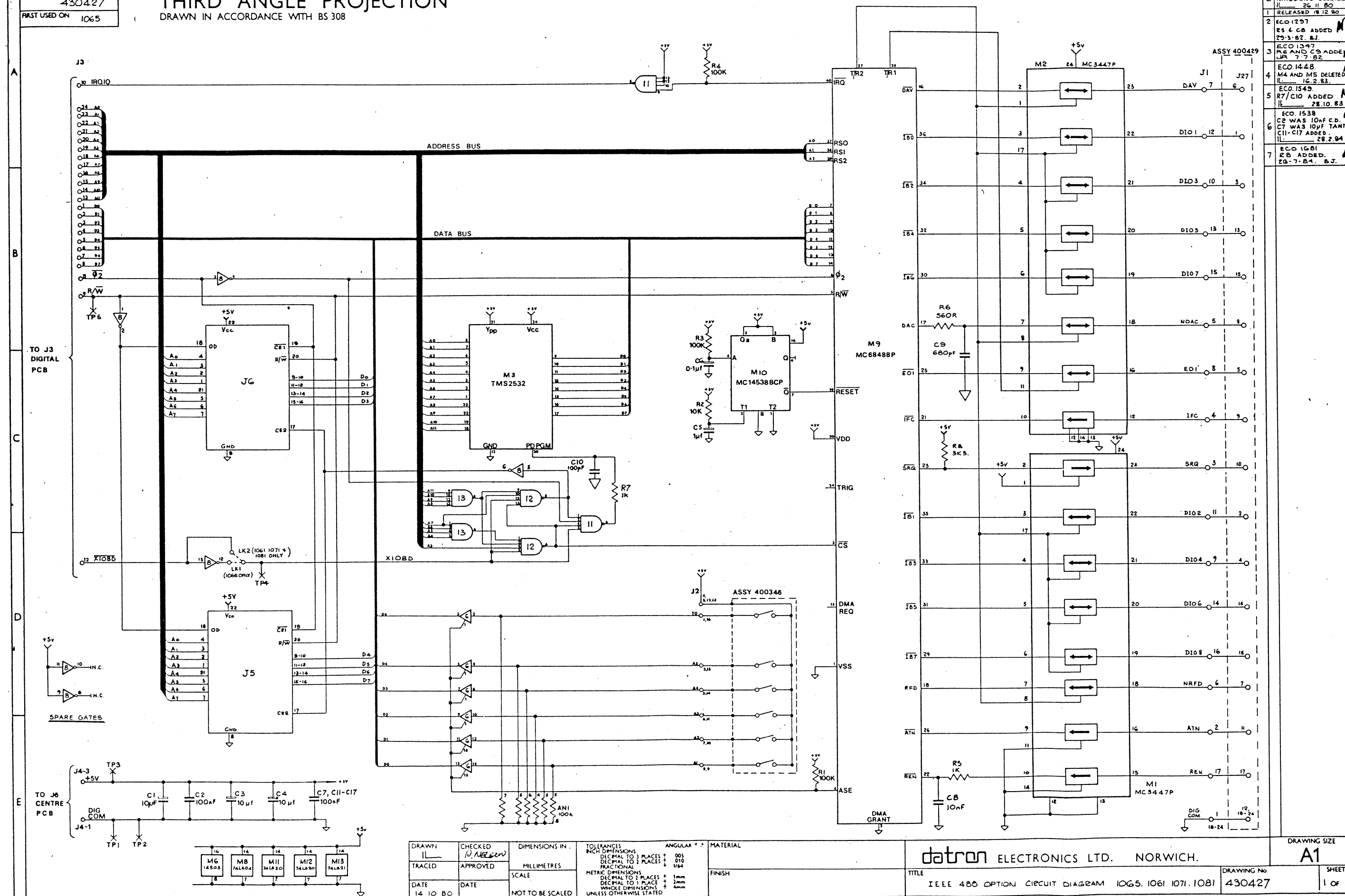
ANALOGUE OF PCB

DRAWN B.J.	CHECKED M.S. 27.11.78	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES ± .005 DECIMAL TO 2 PLACES ± .010 FRACTIONAL ± 1/64	ANGULAR ± 30°	MATERIAL	datron ELECTRONICS LTD. NORWICH.		DRAWING SIZE A2
TRACED	APPROVED	SCALE 2:1 NOT TO BE SCALED	METRIC DIMENSIONS DECIMAL TO 2 PLACES ± 1mm DECIMAL TO 1 PLACE ± 2mm WHOLE DIMENSIONS ± 4mm	UNLESS OTHERWISE STATED	FINISH	TITLE ANALOGUE OUTPUT PCB ASSY. 1061/1071/1081	DRAWING No. 400308	SHEET 1 of 4
DATE 27-11-78	DATE							

THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

ISS.	CHANGES
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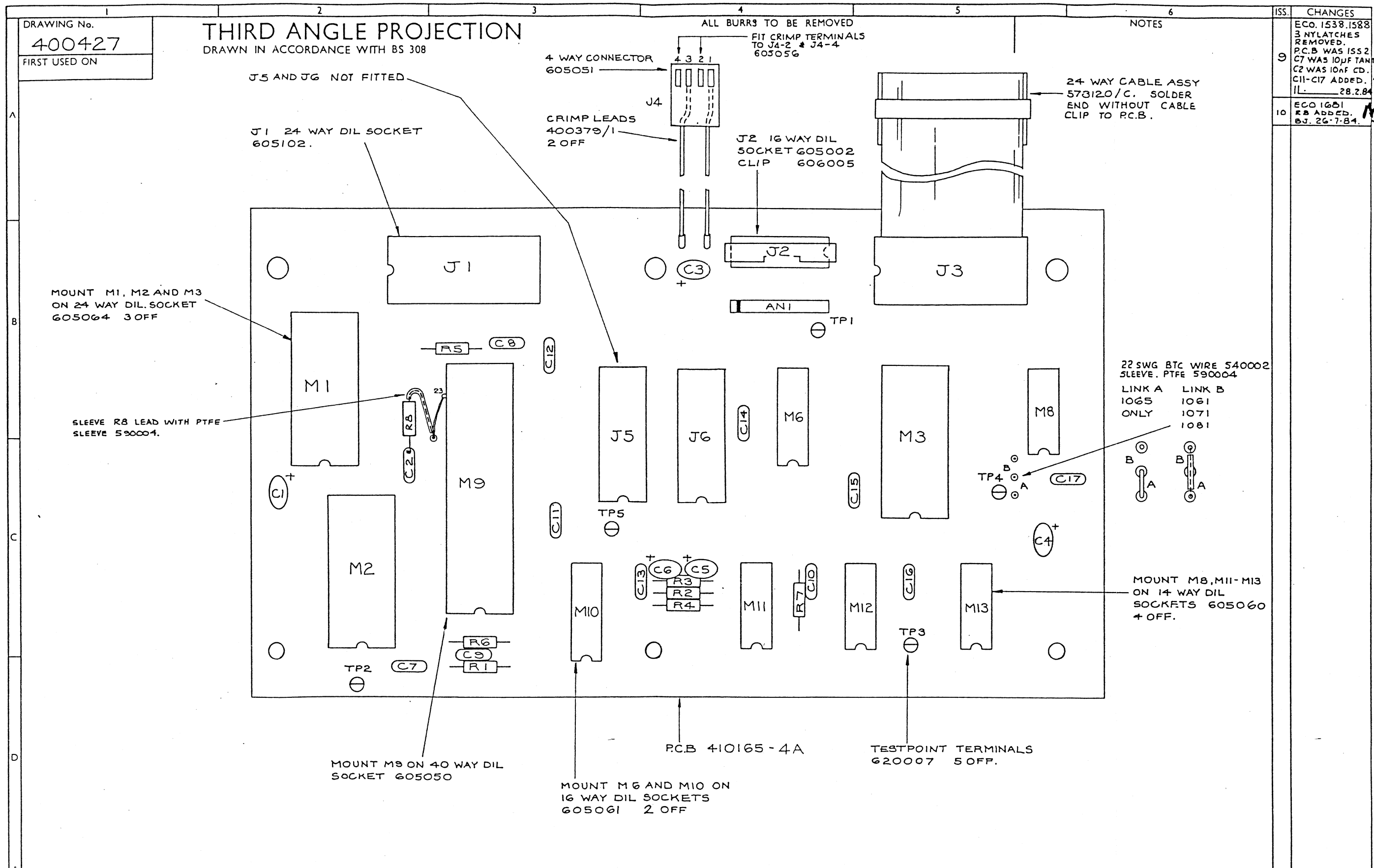
datron ELECTRONICS LTD. NORWICH.

TITLE	DRAWING No.
IEEE 480 OPTION CIRCUIT DIAGRAM 1065, 1061, 1071, 1081	430427

DRAWING SIZE

A1

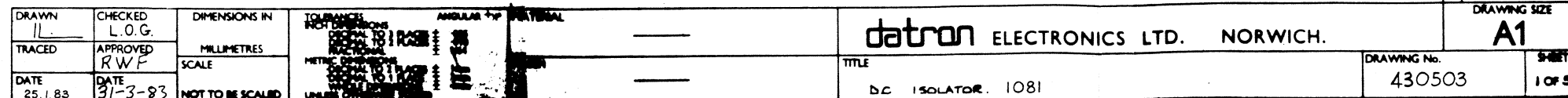
SHEET
1 OF

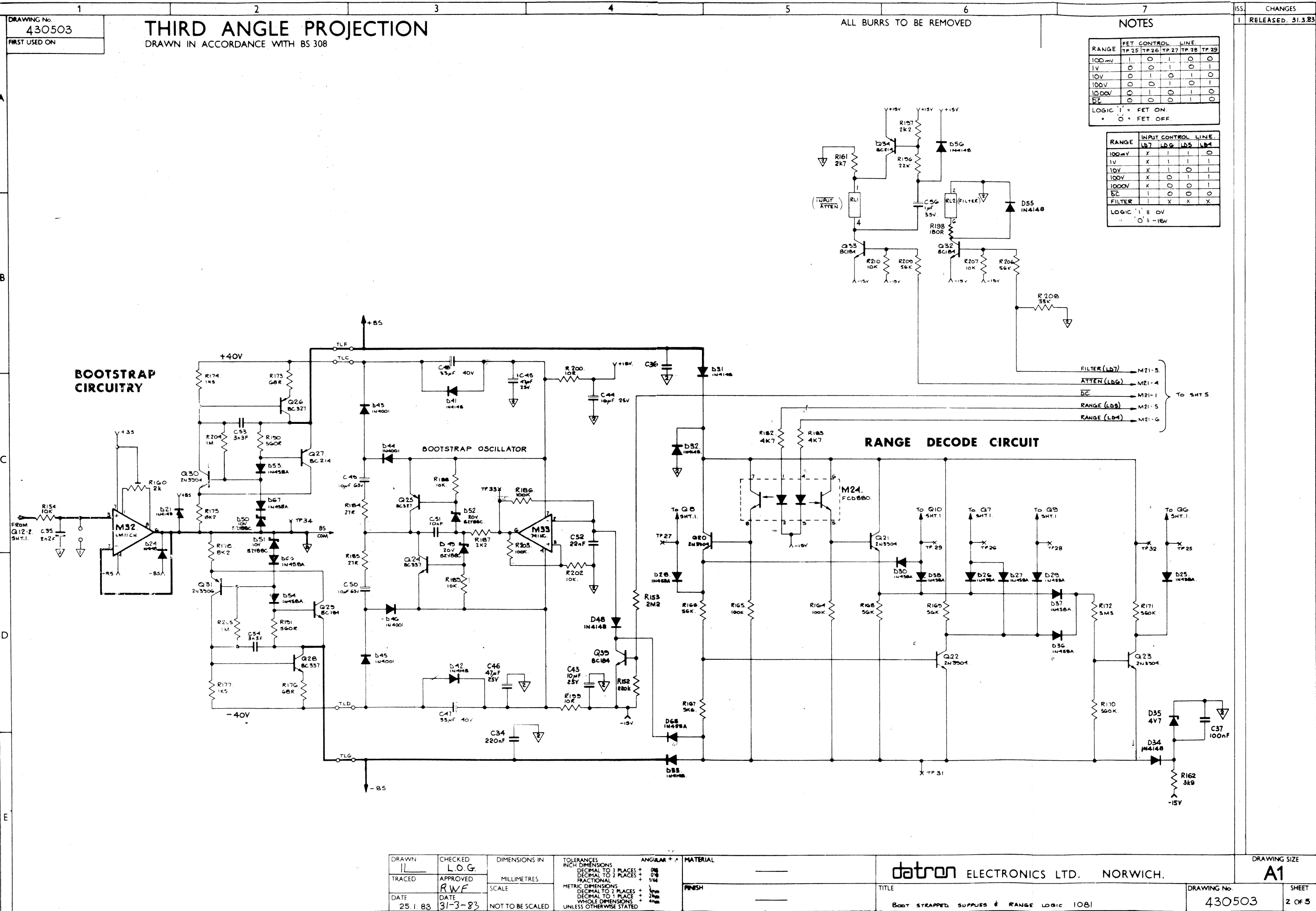


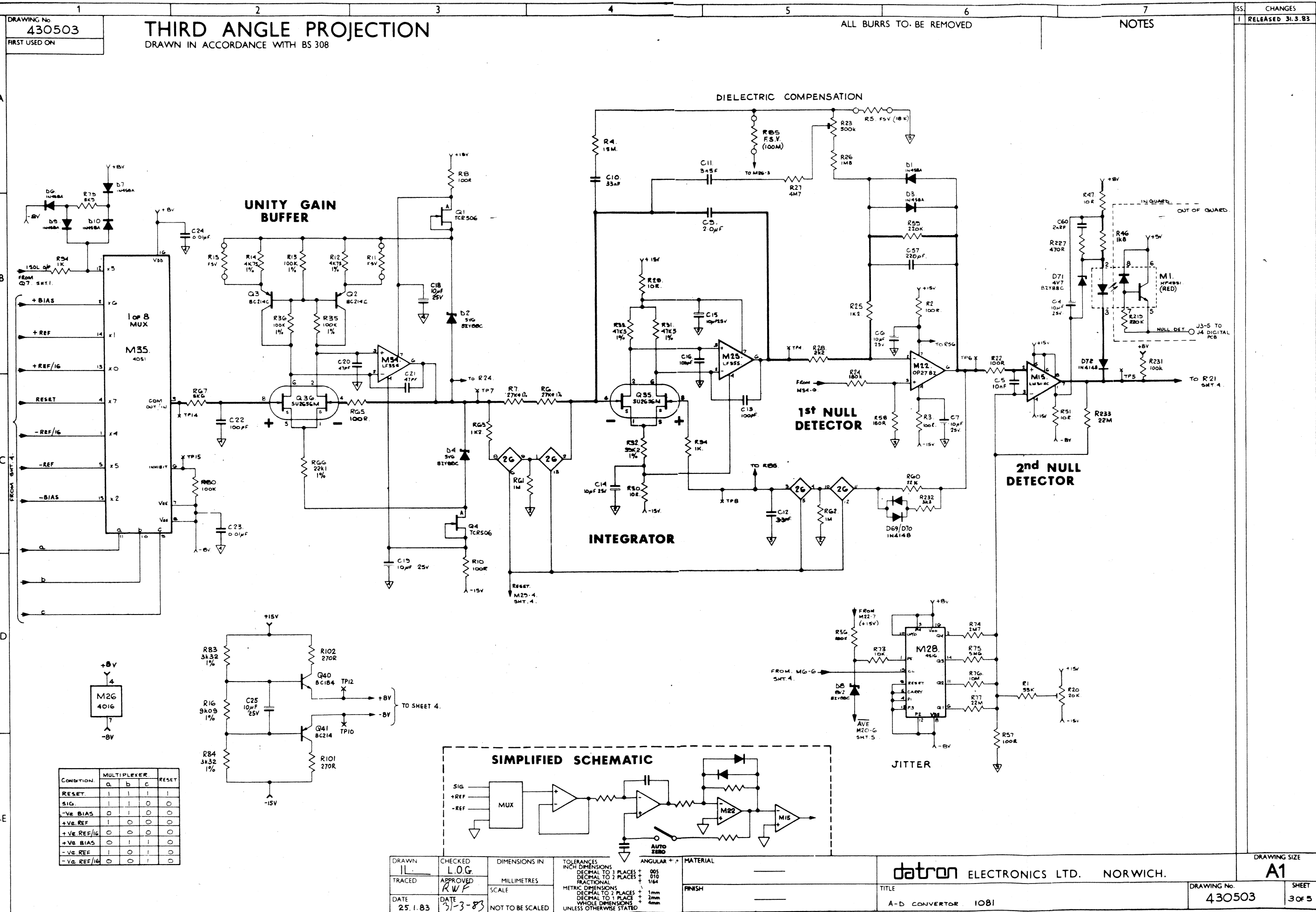
ISS.	CHANGES
9	ECO. 1538.1588 3 NYLATCHES REMOVED. P.C.B WAS ISS2 C7 WAS 10UF TANT C2 WAS 10UF CD. C11-C17 ADDED. 11. 28.2.84
10	ECO 1681 R8 ADDED. BJ. 26-7-84.

IEEE 488 / 6813 PCB

DRAWN JR	DATE 5.10.83	DIMENSIONS IN MILLIMETRES	METRIC DIMENSIONS ANGULAR $\pm \frac{1}{2}^\circ$ DECIMAL TO 2 PLACES $\pm 0.1\text{mm}$ DECIMAL TO 1 PLACE $\pm 0.2\text{mm}$ WHOLE DIMENSIONS $\pm 0.4\text{mm}$ UNLESS OTHERWISE STATED	MATERIAL —	datron ELECTRONICS LTD. NORWICH.		DRAWING SIZE A2	
CHKD.	DATE	SCALE 2:1		FINISH —	TITLE IEEE P.C.B ASSY 1065 1061 1071 1081		DRAWING No. 400427	
APPD.	DATE	NOT TO BE SCALED					SHEET 1 OF 5	







DRAWING No.
430503

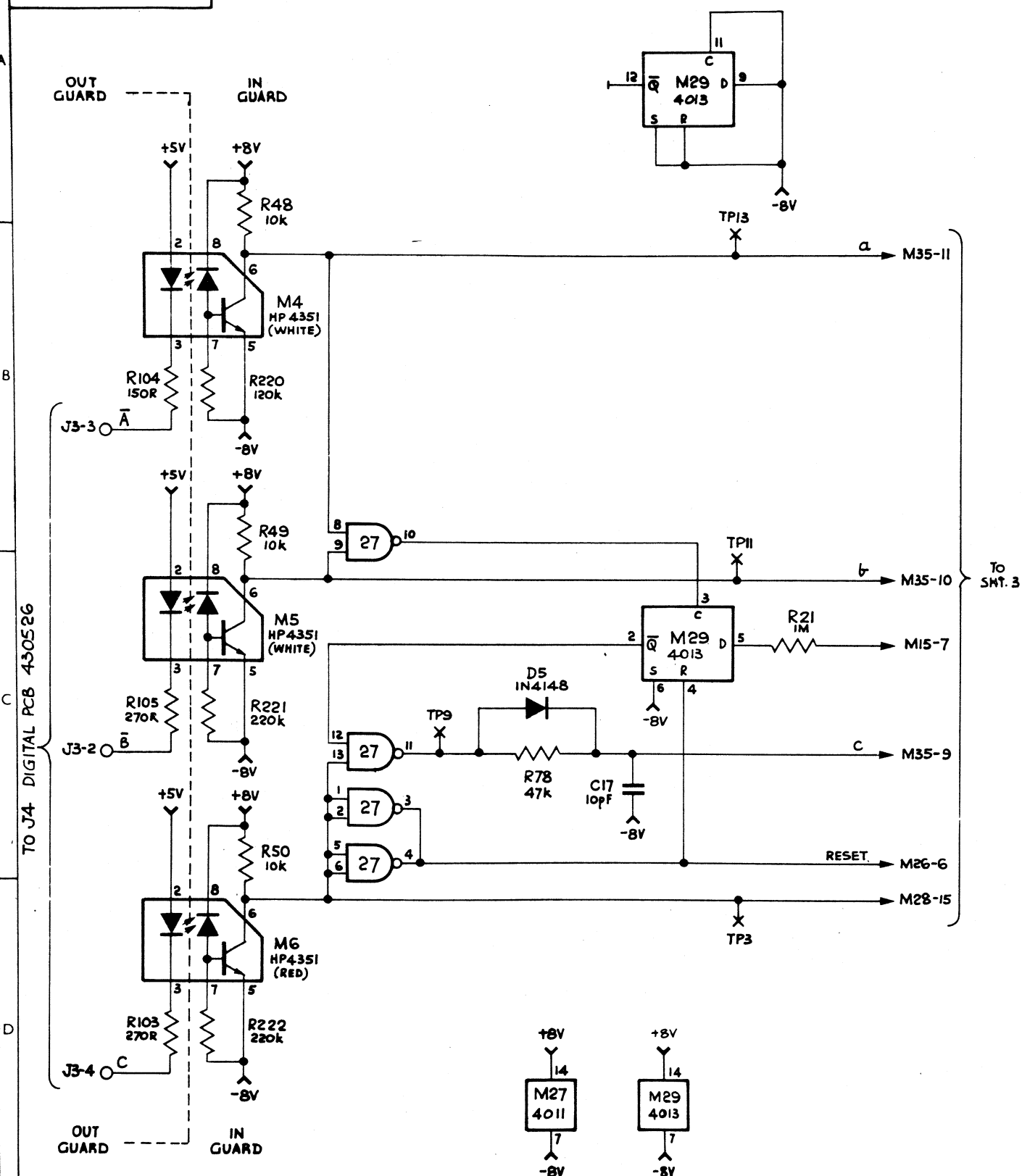
FIRST USED ON

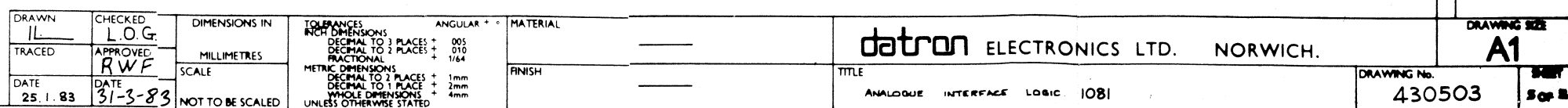
THIRD ANGLE PROJECTION

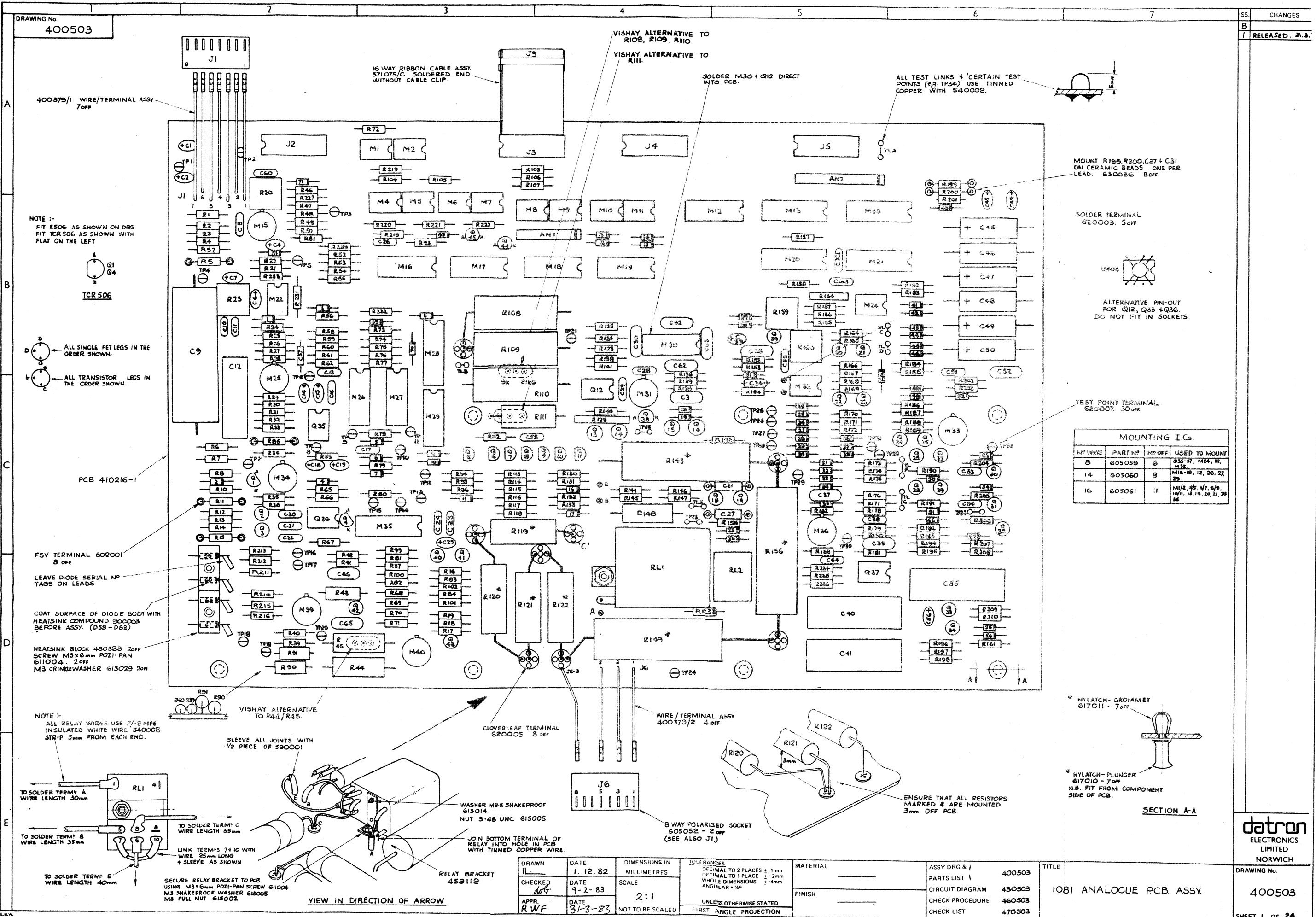
DRAWN IN ACCORDANCE WITH BS 308

ALL BURRS TO BE REMOVED

NOTES

1
M.S.18





DRAWING No.
400503

400379/1 WIRE/TERMINAL ASSY
7 off

NOTE :-
FIT ES06 AS SHOWN ON DRG
FIT TCR506 AS SHOWN WITH
FLAT ON THE LEFT

Q1
Q4

TCR 506

ALL SINGLE FET LEGS IN THE
ORDER SHOWN.

ALL TRANSISTOR LEGS IN
THE ORDER SHOWN.

PCB 410216-1

FSY TERMINAL 602001
8 off

LEAVE DIODE SERIAL NO
TAGS ON LEADS

COAT SURFACE OF DIODE BODY WITH
HEATSINK COMPOUND 900003
BEFORE ASSY. (D59-D62)

HEATSINK BLOCK 450383 2 off
SCREW M3x6mm POZI-PAN
611004. 2 off
M3 CRINKLEWASHER 613029 2 off

NOTE :-
ALL RELAY WIRES USE 7/2 PTFE
INSULATED WHITE WIRE 540003
STRIP 3mm FROM EACH END.

TO SOLDER TERM: A
WIRE LENGTH 30mm

TO SOLDER TERM: B
WIRE LENGTH 35mm

TO SOLDER TERM: C
WIRE LENGTH 35mm

TO SOLDER TERM: D
WIRE LENGTH 40mm

LINK TERM: 74 10 WITH
WIRE 25mm LONG
+ SLEEVE AS SHOWN

SECURE RELAY BRACKET TO PCB
USING M3x6mm POZI-PAN SCREW 611004
M3 SHAKESPROOF WASHER 613005
M3 FULL NUT 615002

VISHAY ALTERNATIVE
TO R41/R45.

SLEEVE ALL JOINTS WITH
1/2 PIECE OF 590001

WASHER M3x5 SHAKESPROOF
613014.

NUT 3-48 UNC 615005

JOIN BOTTOM TERMINAL OF
RELAY INTO HOLE IN PCB
WITH TINNED COPPER WIRE.

RELAY BRACKET
459112

VIEW IN DIRECTION OF ARROW

VISHAY ALTERNATIVE TO
R108, R109, R110

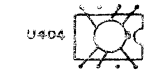
VISHAY ALTERNATIVE TO
R111.

SOLDER M301 Q12 DIRECT
INTO PCB.

ALL TEST LINKS + CERTAIN TEST
POINTS (eg TP34) USE TINNED
COPPER WITH 540002.

MOUNT R199, R200, C27 + C31
ON CERAMIC BEADS ONE PER
LEAD. 630036 Boff.

SOLDER TERMINAL
620003. 5 off

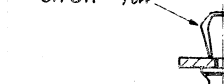


ALTERNATIVE PIN-OUT
FOR Q12, Q35 + Q36.
DO NOT FIT IN SOCKETS.

TEST POINT TERMINAL
620007. 30 off

MOUNTING I.C.s			
NO. WIRTS	PART NO	NO OFF	USED TO MOUNT
8	605059	6	Q35-37, M24, 12, M32
14	605060	8	M16-19, 12, 36, 27, 29
16	605061	11	M1/2, 45, 47, 5/9, 10/11, 13, 14, 20, 21, 38, 39

NYLATCH - GROMMET
617011 - 7 off



NYLATCH - PLUNGER
617010 - 7 off
N.B. FIT FROM COMPONENT
SIDE OF PCB.

SECTION A-A

datron
ELECTRONICS
LIMITED
NORWICH

DRAWING No.

400503

SHEET 1 OF 24

DRAWN 11	DATE 1. 12. 82	DIMENSIONS IN MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES : 1mm DECIMAL TO 1 PLACE : 2mm WHOLE DIMENSIONS : 4mm ANGULAR : 30	MATERIAL	ASSY DRG & I PARTS LIST 1	TITLE
CHECKED 107	DATE 9-2-83	SCALE 2:1	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH	CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	IOBI ANALOGUE PCB ASSY.
APPR RWF	DATE 31-3-83	NOT TO BE SCALED				

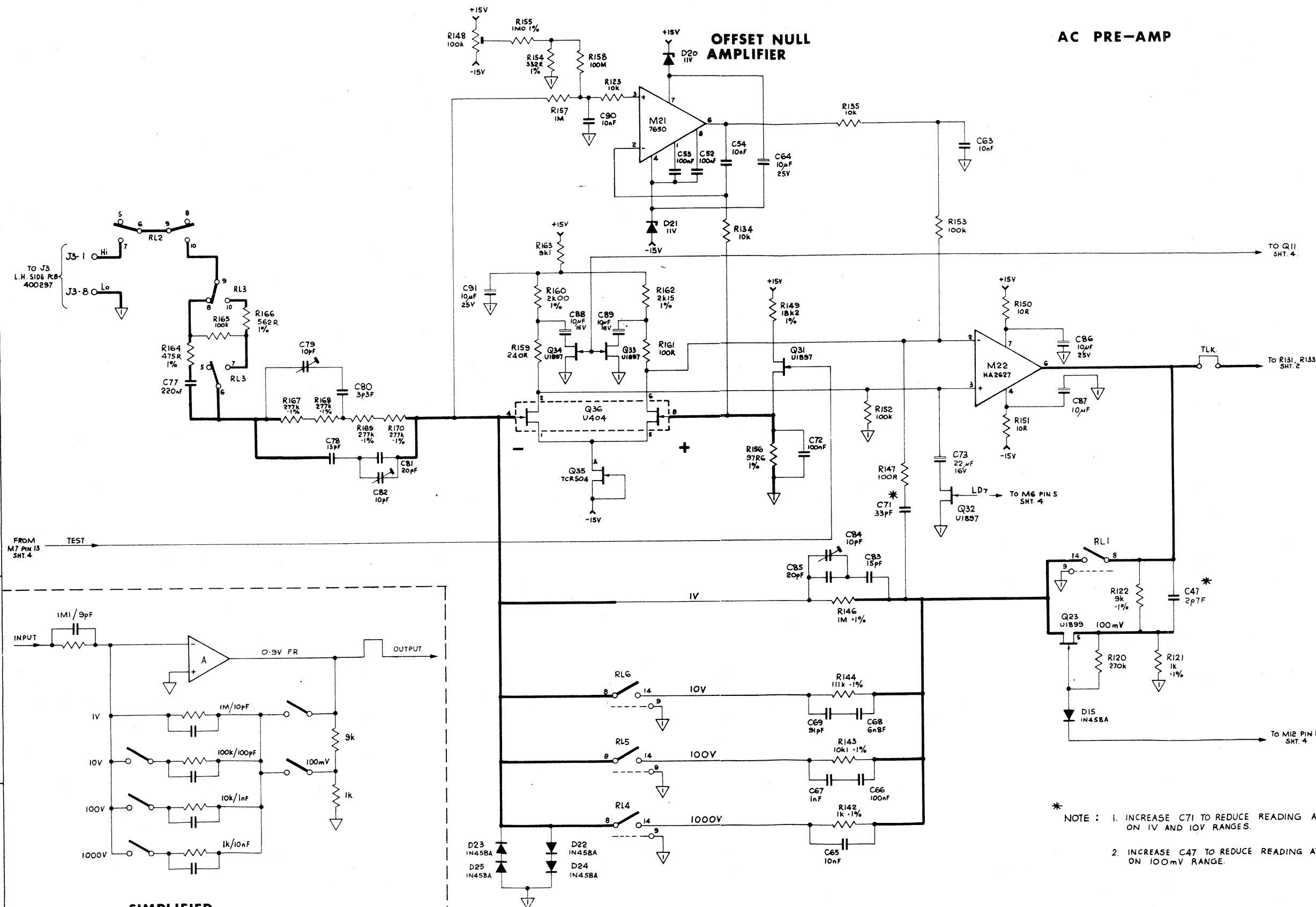
400503	430503	460503	470503
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DRAWING No.
430504CHANGES
1 RELEASED 12.4.83
2 ECO 14.85
3 SEE SHEET 2

BIAS CURRENT

OFFSET NULL
AMPLIFIER

AC PRE-AMP

SIMPLIFIED
SCHEMATIC

* NOTE: 1. INCREASE C71 TO REDUCE READING AT 1MHZ ON 1V AND 10V RANGES.
2. INCREASE C47 TO REDUCE READING AT 1MHZ ON 100mV RANGE.

DRAWN L.O.G.	DATE 10.1.83	DIMENSIONS IN MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES ± 1mm DECIMAL TO 1 PLACE ± 2mm WHOLE DIMENSIONS ± 4mm ANGULAR ± 90°	MATERIAL	ASSY DRG & I PARTS LIST I	400504	TITLE
CHECKED L.O.G.	DATE 11.2.83	SCALE	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH	CIRCUIT DIAGRAM	460504	1081 AC PRE-AMP
APPR. R.V.F.	DATE 12.4.83	NOT TO BE SCALED			CHECK PROCEDURE CHECK LIST	470504	

datron
ELECTRONICS
LIMITED
NORWICHDRAWING No.
430504
SHEET 1 OF 4

DRAWING No.
430504

CHANGES
1 RELEASED 12.4.83
2 ECO 14-85
C43 WAS 10pF
C92 ADDED 18.5.83

COMPENSATION STAGE

H.F. AUTOCAL

PRECISION HALF WAVE RECTIFIER

LOG AMPLIFIER

H.F. FLAG (>20kHz)

M.F. FLAG (>2kHz)

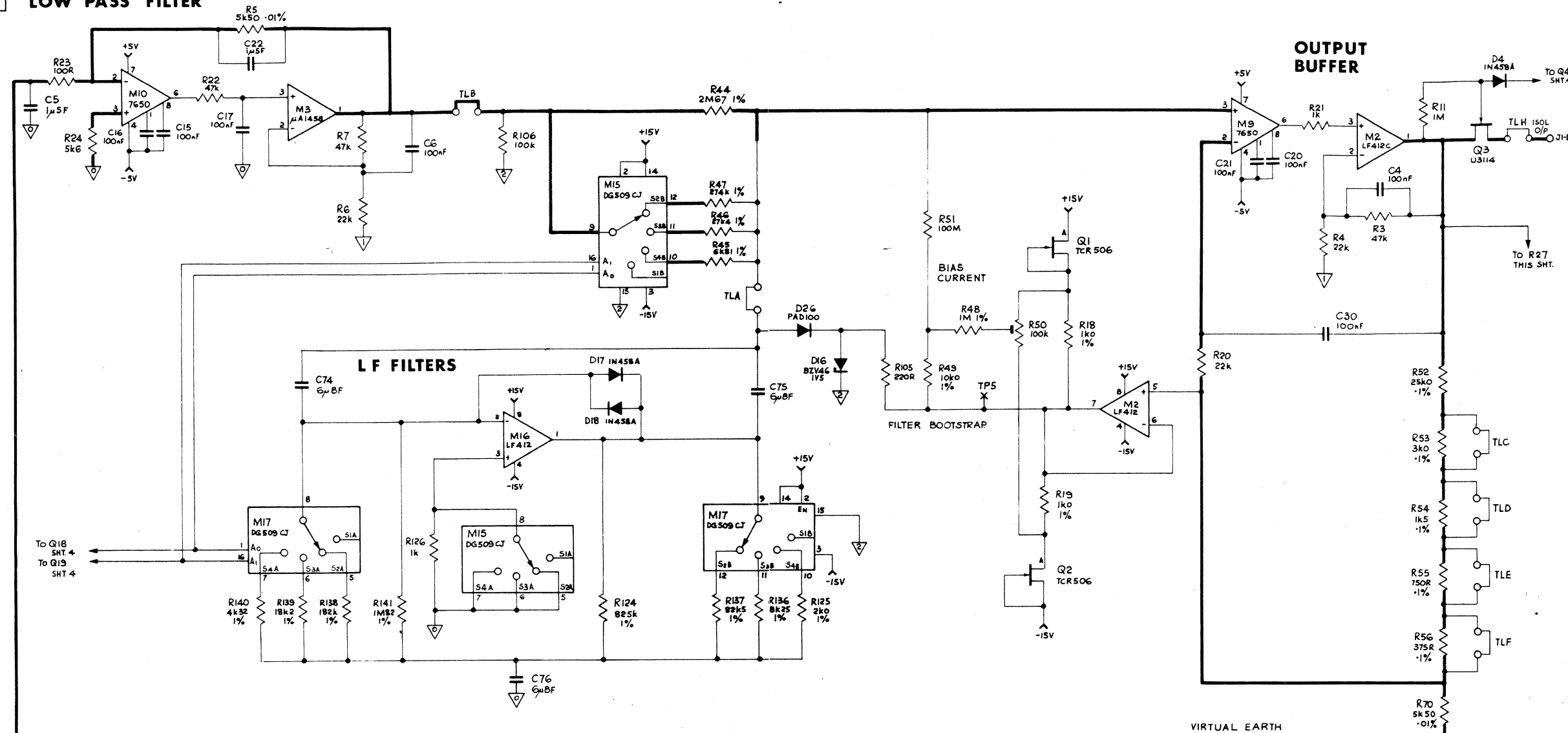
FREQUENCY	F3	H.F. FLAG
< 2kHz	0	0
> 2kHz, < 20kHz	0	1
> 20kHz	0	1
< 2kHz	1	0
> 2kHz, < 20kHz	1	0
> 20kHz	1	1

F3. 0 = -15V
1 = 0V

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NORWICH

DRAWN 11	DATE 21.1.83	UNITS MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES : 1mm DECIMAL TO 1 PLACE : 2mm WHOLE DIMENSIONS : 4mm ANGULAR : 1/2°	MATERIAL	ASSY DRG & 1 PARTS LIST 1 CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	400504 460504 470504	TITLE 1081 AC.	DRAWING No. 430504	SHEET 2 OF 4
CHECKED L.O.G.	DATE 11.2.83	SCALE	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH					
APPR. R.W.F.	DATE 12-4-83	NOT TO BE SCALED							

LOW PASS FILTER

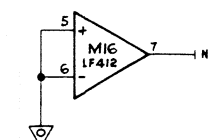


LF FILTERS

OUTPUT BUFFER

ANTI-LOG STAGE

A ₁	A ₀	S ₁	S ₂	S ₃	S ₄	FILTER	F ₀	F ₁	F ₂	F ₃
0	0	1	0	0	0	0.1Hz	1	1	0	X
0	1	0	1	0	0	1Hz	0	1	0	X
1	0	0	0	1	0	10Hz	1	0	1	X
1	1	0	0	0	1	100Hz	0	0	1	X



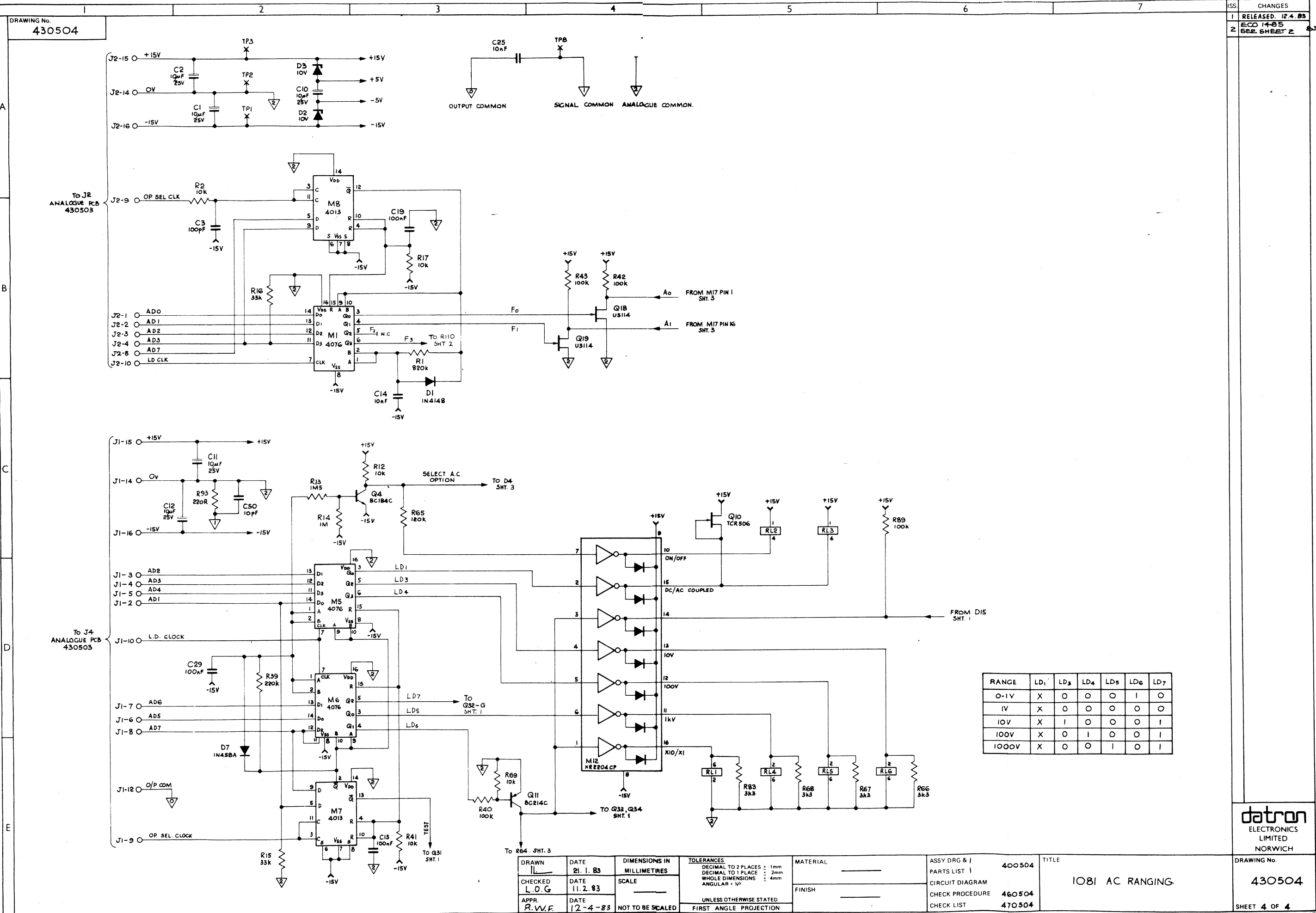
OUTPUT
CURRENT

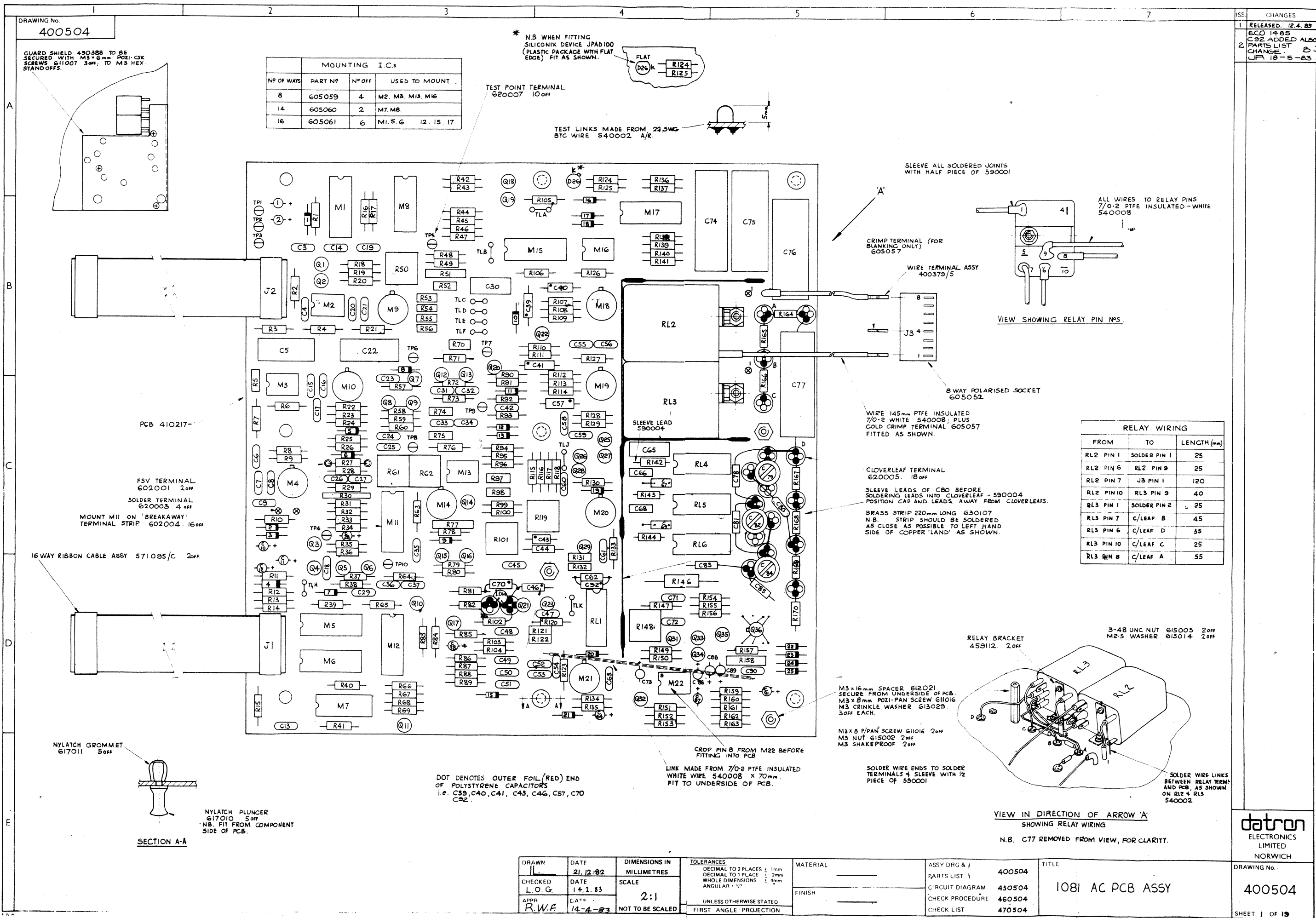
FEEDBACK
CURRENT

MII
RMS CHIP
290026

LOG VOLTAGE.

DRAWN L.L.	DATE 18.1.83	DIMENSIONS IN MILLIMETERS	TOLERANCES DECIMAL TO 2 PLACES : 1mm DECIMAL TO 1 PLACE : 2mm WHOLE DIMENSIONS : 4mm ANGULAR : 30'	MATERIAL _____	ASSY DRG & 1 PARTS LIST 1 CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	TITLE 1081 AC RMS CONVERTER	DRAWING No. 430504
CHECKED L.O.G.	DATE 11.2.83	SCALE _____	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH _____	400504 460504 470504		
APPR. R.W.F.	DATE 12-4-83	NOT TO BE SCALED					SHEET 3 OF 4





AC PCB

DRAWING No.
430505

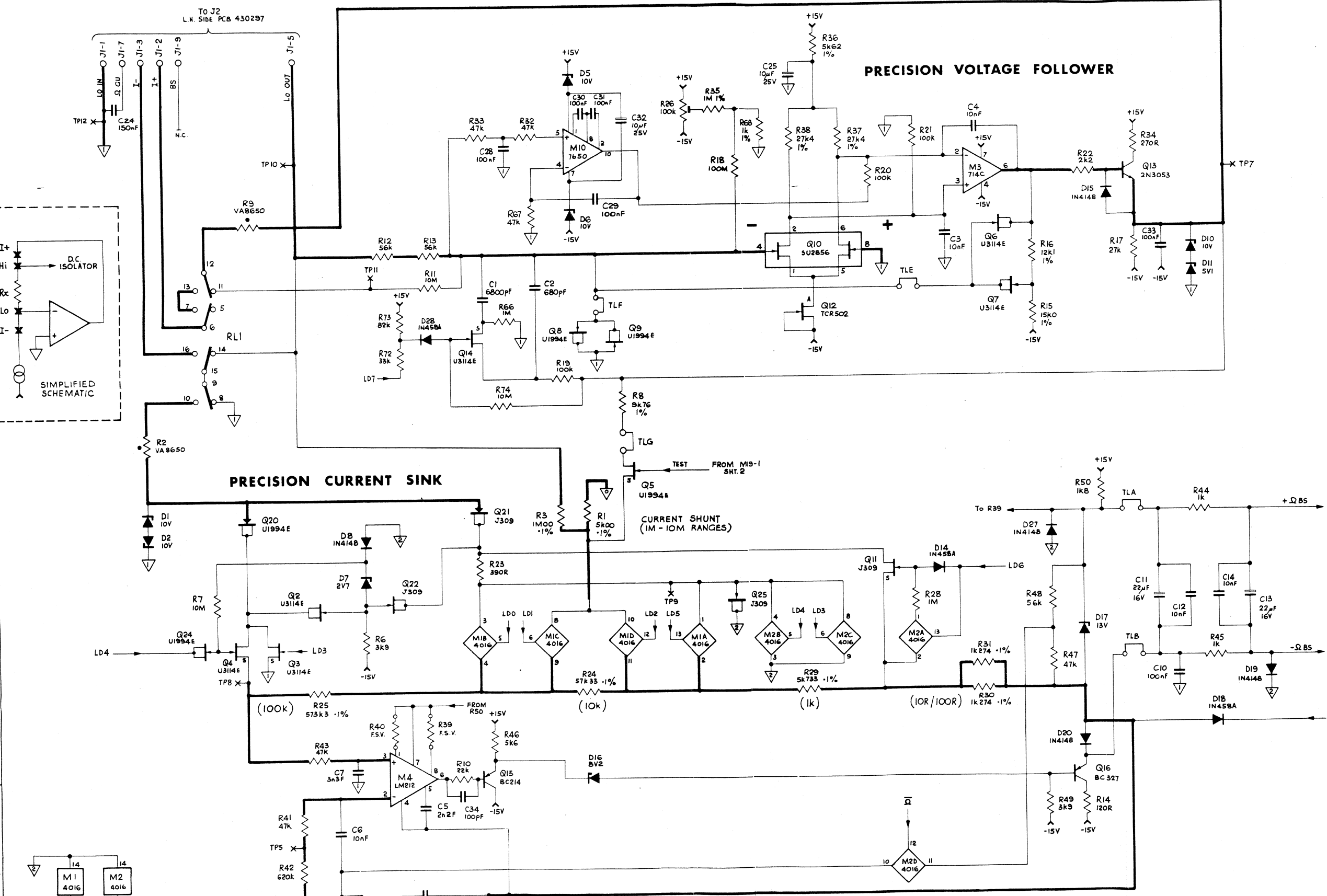
A

B

C

D

E

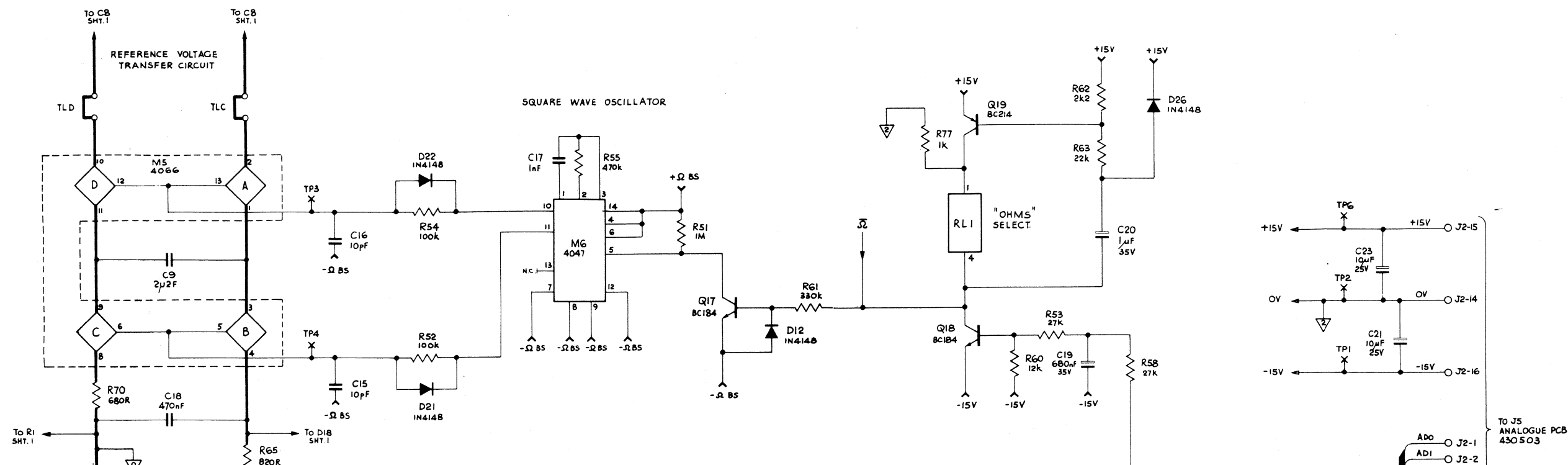


CHANGES	
1	RELEASED 31.3.83
2	ECO 1+8+ C24 ADDED J18 18-5-83
datron ELECTRONICS LIMITED NORWICH	
DRAWING No. 430505	
SHEET 1 OF 2	

DRAWN RWF	DATE 2.2.83	DIMENSIONS IN MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES : 1mm DECIMAL TO 1 PLACE : 2mm WHOLE DIMENSIONS : 4mm ANGULAR : 1/2°	MATERIAL	ASSY DRG & I PARTS LIST CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	400505 460505 470505	TITLE 1081 OHMS
CHECKED L.O.G.	DATE 11.2.83	SCALE	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH			
APPR. RWF	DATE 31-3-83	NOT TO BE SCALED					

DRAWING No.
430505

ISS. CHANGES
1 RELEASED 31.3.83
2 ECO 1484
3 SEE SHEET 1
4 UFA 18-5-83

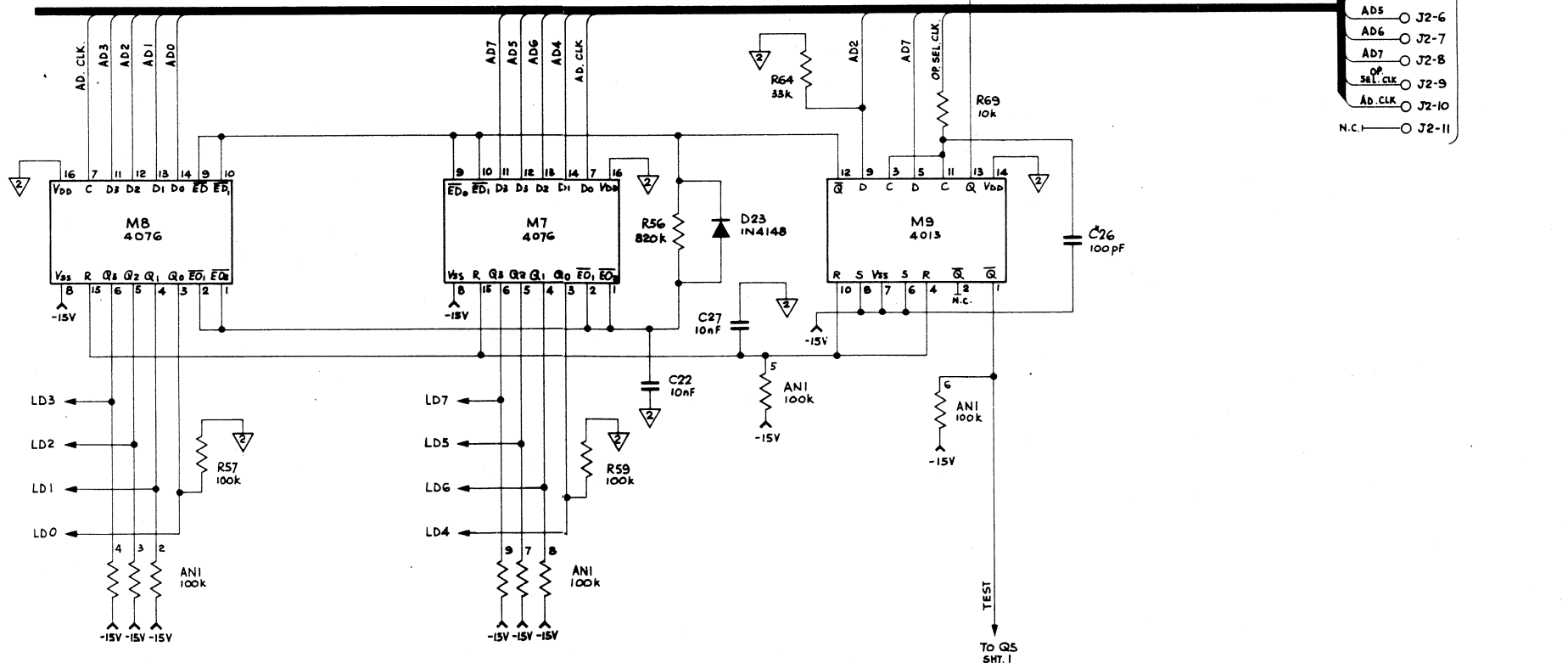


RANGE TRUTH TABLE

RANGE	LD0	LD1	LD2	LD3	LD4	LD5	LD6	LD7
10Ω	0	0	0	0	0	0	1	X
100Ω	0	0	0	0	0	0	1	X
1kΩ	0	0	0	0	0	1	0	X
10kΩ	1	0	0	0	0	0	0	X
100kΩ	0	0	0	0	1	0	0	X
1MΩ	0	0	1	1	0	0	0	X
10MΩ	0	1	0	1	0	0	0	X
FILTER	X	X	X	X	X	X	X	1
P.R.T.	0	0	0	0	0	1	0	0

LOGIC '0' = -15V
LOGIC '1' = 0V
LOGIC 'X' = 'DONT CARE' CONDITION

RANGING LOGIC

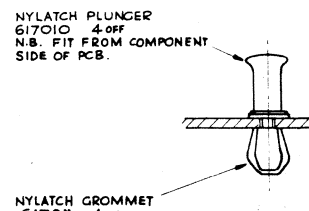
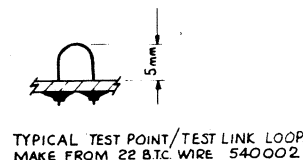
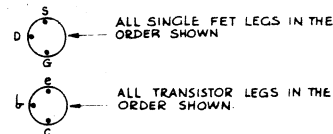


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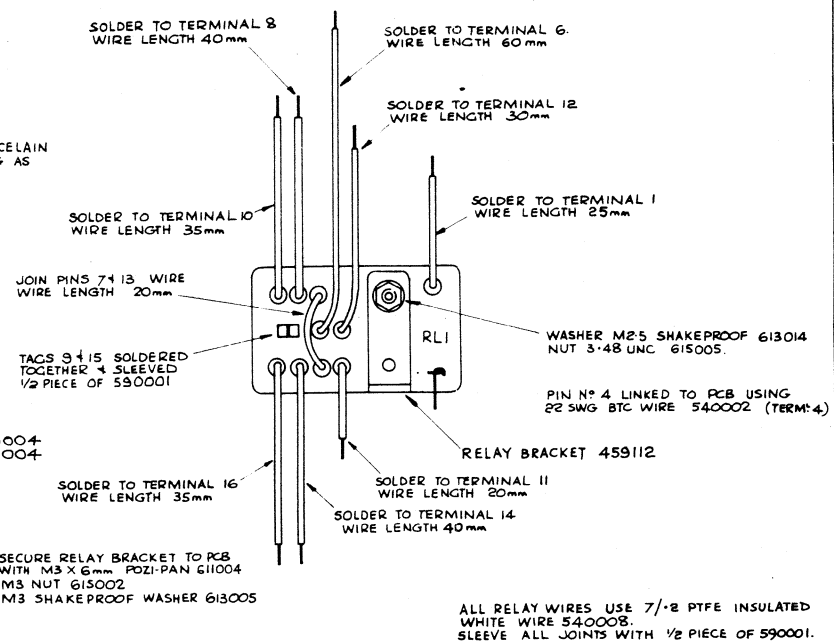
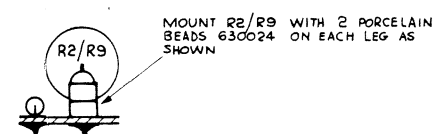
DRAWN L.L.	DATE 3.2.83	DIMENSIONS IN MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES ± 1mm DECIMAL TO 1 PLACE ± 2mm WHOLE DIMENSIONS ± 4mm ANGULAR ± 30°	MATERIAL	ASSY DRG & I PARTS LIST CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	400505 460505 470505	TITLE 1081 OHMS	DRAWING No. 430505 SHEET 2 OF 2
CHECKED L.O.G.	DATE 11.2.83	SCALE	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH				
APPR. R.W.F.	DATE 31-5-83	NOT TO BE SCALED						

DRAWING No.
400505

ISS	CHANGES
1	RELEASED 31.3.83
2	ECO 1484-1500 C24 ADDED R24, R25, R29 - R31 PART N° ISSUES WERE 1. IL/JR 8.6.83



SECTION A-A

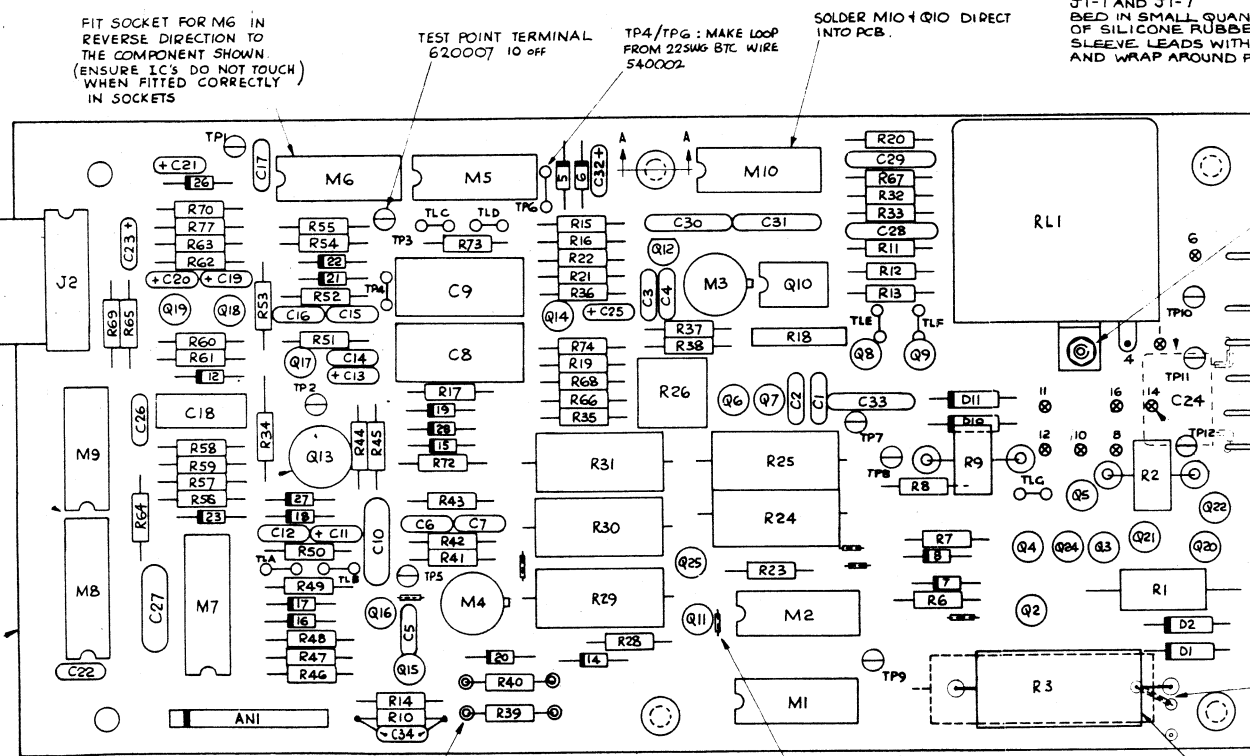


16 WAY RIBBON CABLE ASSY
571095/C SOLDERED END
WITHOUT CABLE CLIP.

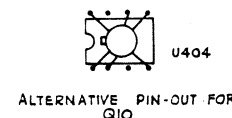
ENSURE IC'S DO NOT
TOUCH WHEN FITTED
CORRECTLY IN SOCKETS

MOUNT Q13 ON T05
MOUNTING PCB 618002

PCB 410218-1



MOUNTING ICs.			
N° OF WAYS	PART N°	N° OFF	USED TO MOUNT
14	605060	5	M1, M2, M5, M6, M9
16	605061	2	M7, M8



DRAWN 11	DATE 9.12.82	DIMENSIONS IN MILLIMETRES	TOLERANCES DECIMAL TO 2 PLACES ± 1mm DECIMAL TO 1 PLACE ± 2mm WHOLE DIMENSIONS ± 4mm ANGULAR ± 1°	MATERIAL	ASSY DRG & I PARTS LIST 1 CIRCUIT DIAGRAM CHECK PROCEDURE CHECK LIST	400505 430505 460505 470505	TITLE 1081 OHMS PCB ASSY	DRAWING No. 400505 SHEET 1 OF 12
CHECKED 108	DATE 9-2-83	SCALE 2:1 NOT TO BE SCALED	UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION	FINISH				
APPR. RWF	DATE 31-3-83							

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DRAWING No.
430506
FIRST USED ON
1081

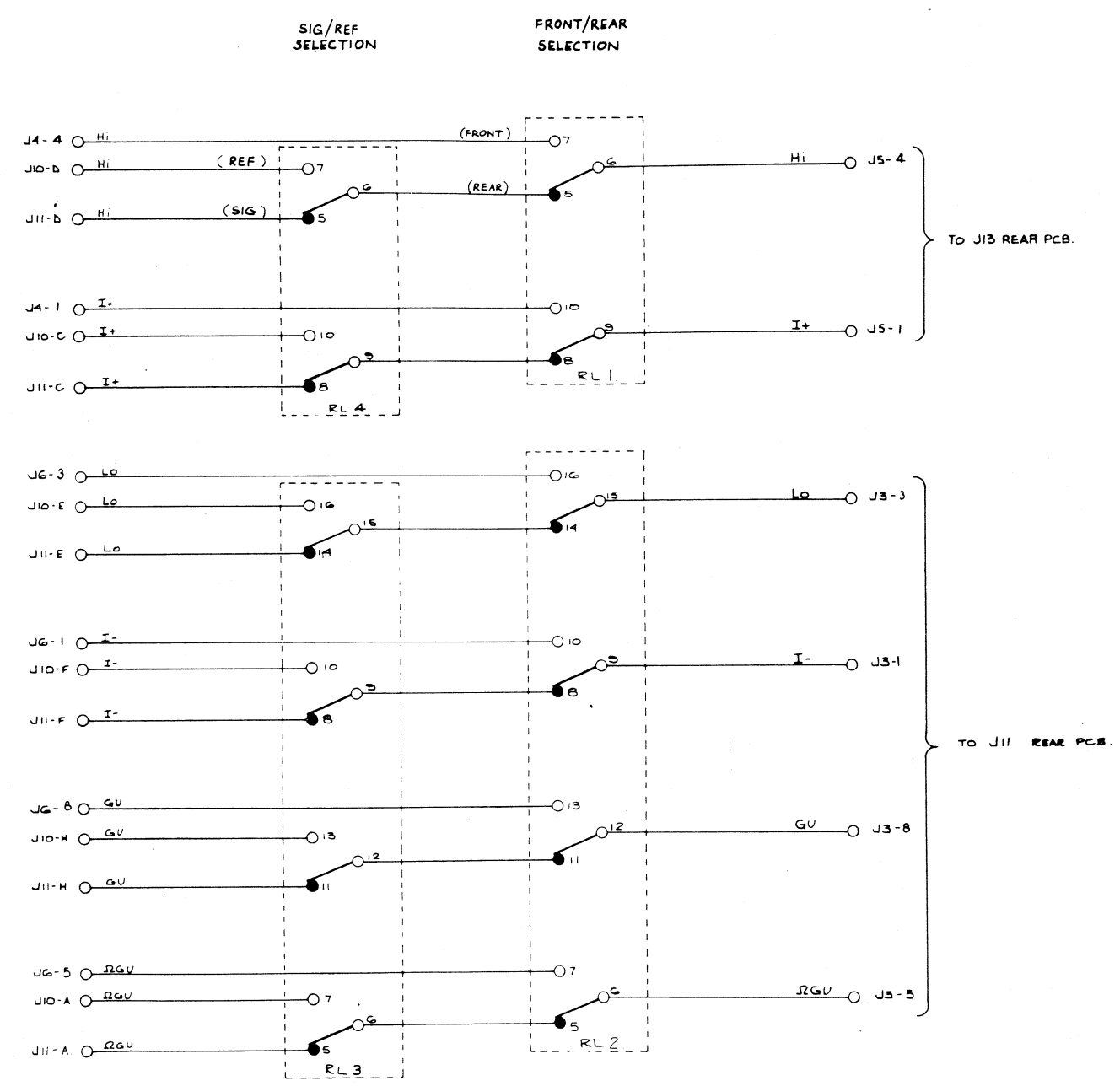
THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

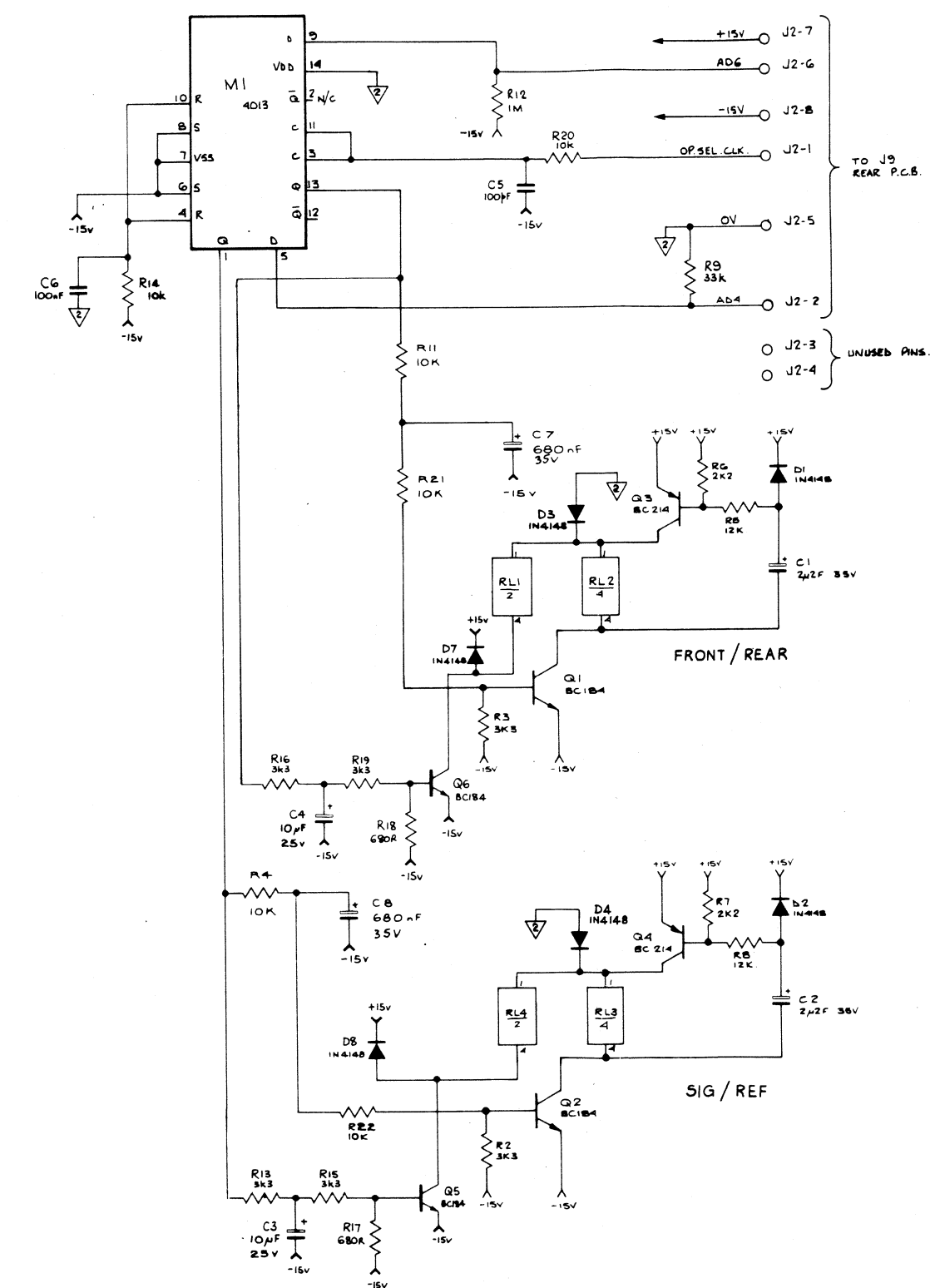
ALL BURRS TO BE REMOVED

NOTES

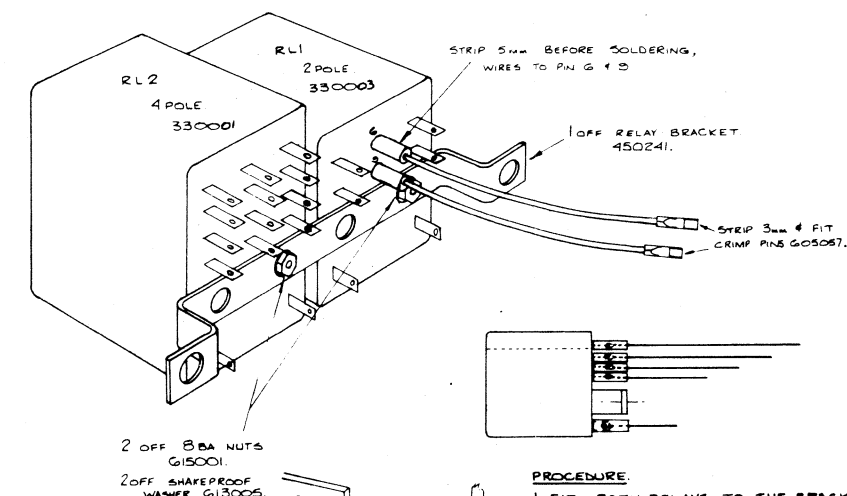
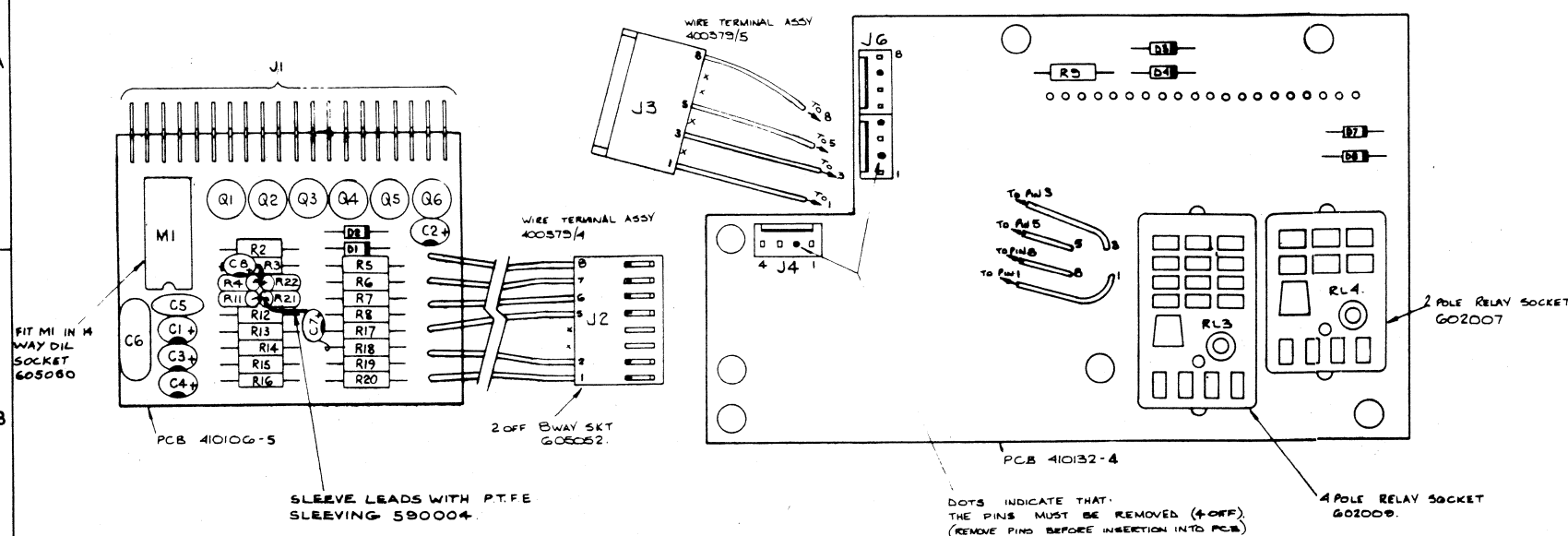
ISS. CHANGES
1 RELEASED 31.3.83



NOTE: J4&J6 ARE FROM THE FRONT PANEL TERMINALS.
J10 IS THE REF INPUT SOCKET ON REAR PANEL.
J11 IS THE SIG INPUT SOCKET ON REAR PANEL.

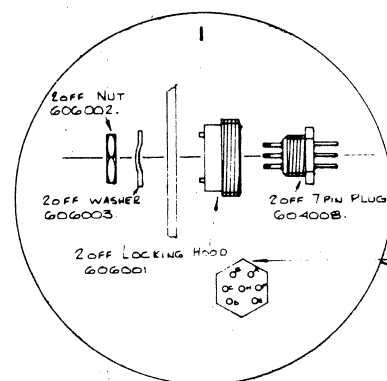


DRAWN 11	CHECKED L.O.G.	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES + 0.005 DECIMAL TO 2 PLACES + 0.010 FRACTIONAL METRIC DIMENSIONS DECIMAL TO 2 PLACES + 1mm DECIMAL TO 1 PLACE + 2mm WHOLE DIMENSIONS + 4mm UNLESS OTHERWISE STATED	ANGULAR + 0.5°	MATERIAL	datron ELECTRONICS LTD. NORWICH.	DRAWING No. 430506	SHEET 1 of 1
TRACED	APPROVED R.W.F.	SCALE	NOT TO BE SCALED	FINISH	TITLE REAR INPUT / RATIO CIRCUIT. 1081			
DATE 10.2.83	DATE							

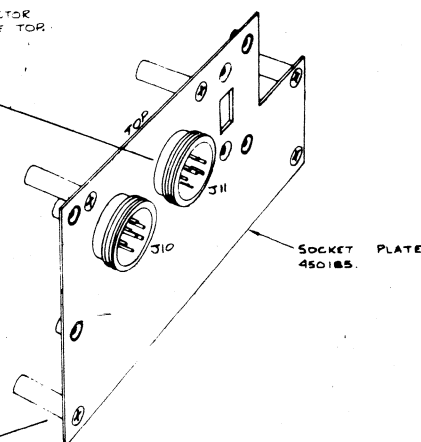


PROCEDURE

- 1/ FIT BOTH RELAYS TO THE BRACKET (AS SHOWN) WITH WASHER & NUT.
- 2/ ON PINS G43 OF THE TWO POLE RELAY SOLDER 70-30 OF WHITE WIRE PART NO 540008 SLEEVE WITH 1/2 PIECE OF 530001 (18 10-3).
- 3/ ALL OTHER CONTACTS ARE TO HAVE APPROXIMATELY 60-40 OF 22 SWG TINNED COPPER WIRE PART NO 540002 & SLEEVE EACH WITH 1/2 PIECE OF 530001.
- 4/ STAGGER LENGTHS OF TINNED COPPER WIRE TO ASSIST FITTING TO PCB. (AS SHOWN).



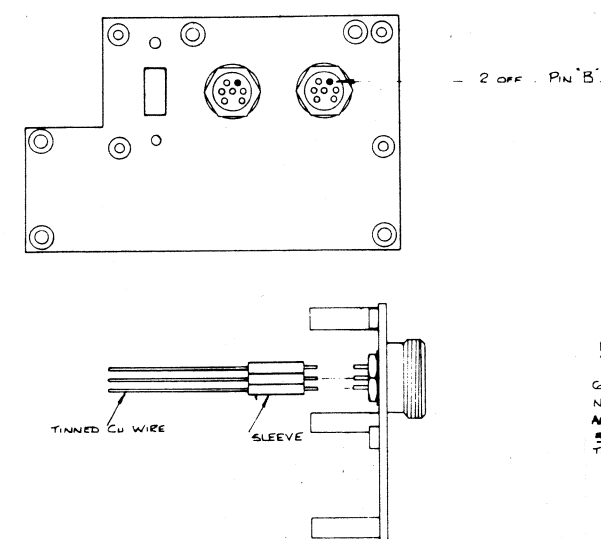
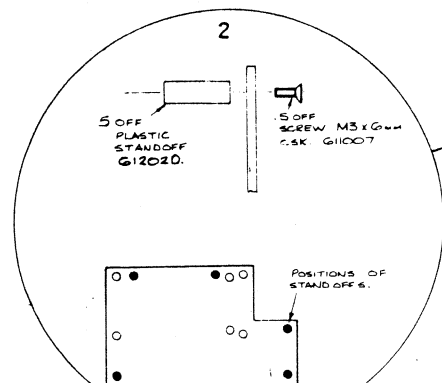
THIS PART OF CONNECTOR
MUST BE TOWARDS THE TOP



PROCEDURE.

1. ASSEMBLE THE 7 PIN PYE PLUGS.
FIRST & ENSURE THAT THE CONNECTORS
ARE SECURED IN THE POSITION SHOWN.

2. ASSEMBLE THE 5 STANDOFF'S IN THE
POSITION SHOWN BY THE LARGE DOTS.



PROCEDURE
1/ ALL PINS ON EACH SOCKET EXCEPT
PIN B (SHOWN SOLID) SOLDER ON
60mm OF TINNED COPPER WIRE PART
N° 540002 & SLEEVE ALL JOINTS WITH
APPROXIMATELY 16mm OF SLEEVING PART No
530001.
THERE SHOULD NOW BE 12 WIRES.

DRAWING No.
400506
FIRST USED ON

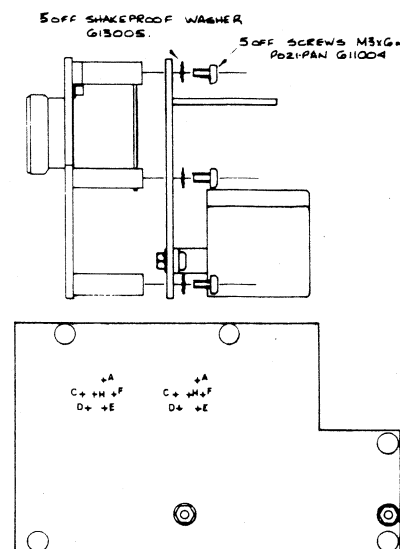
THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

ALL BURRS TO BE REMOVED

NOTES

ISS. CHANGES
1 RELEASED 31.3.83

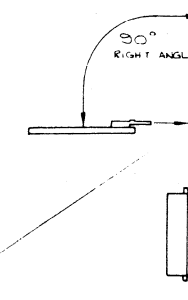


3/ BOTTOM VIEW SHOWS THE HOLES IN THE PCB (INDICATED BY CROSSES). THESE HOLES ARE FOR THE WIRES FROM THE TWO 7 PIN SOCKETS. IT IS A SUGGESTION THAT THE WIRES ARE STAGGERED TO MAKE ASSY EASIER (AS WIRING THE RELAYS).

PROCEDURE

- 1 THE WIRES SHOULD LINE UP WITH THE APPROPRIATE HOLES. I.E. WIRE FROM PIN A OF SOCKET SHOULD BE INSERTED INTO HOLE A, WIRE FROM PIN C TO HOLE C AND SO ON.
- 2 WHEN THE WIRES ARE INSERTED IN THE APPROPRIATE HOLES. SECURE THE 2 ASSYS TOGETHER WITH THE M3X6mm POZI-PAN SCREWS & SHAKEPROOF WASHERS, SCREWED IN THE 5 STANDOFFS (AS DETAILED).
- 3 LIGHTLY PULL ON THE TIN COPPER WIRES SO THE WIRE IS TAUT, THEN SOLDER & CROP IN THE USUAL MANNER.

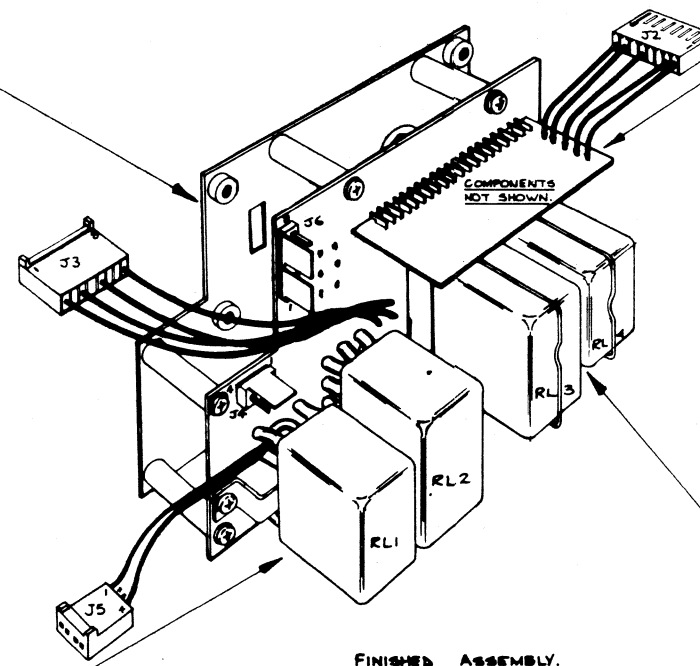
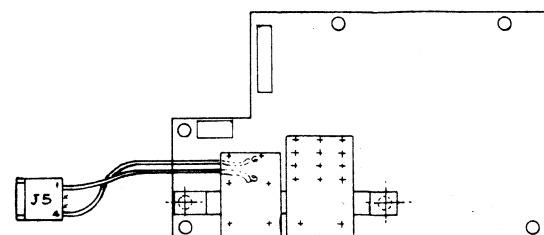
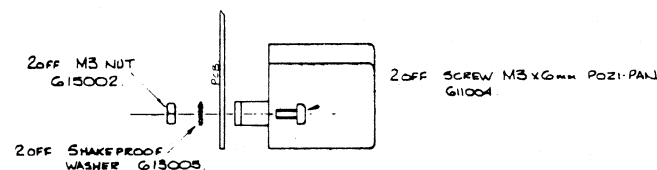
2/ INSERT CONNECTORS AS SHOWN. SOLDER ALL 20 AMP PINS & CROP LEGS IN USUAL MANNER. THE BOARD IS TO BE AT 90° WHEN SOLDERED IN.



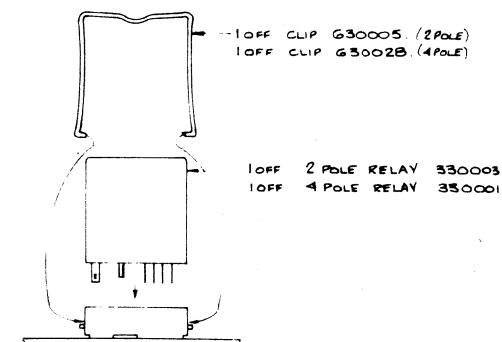
1/ SKETCH BELOW SHOWS THE 2 RELAY & BRACKET ASSEMBLY (FROM SHEET 1). THE CROSSES INDICATE HOLES IN THE PCB INTO WHICH THE WIRES FROM THE RELAYS ARE INSERTED.

PROCEDURE

- 1 INSERT THE WIRES INTO THE APPROPRIATE HOLES IN THE PCB (WIRES CUT AT DIFFERENT LENGTHS TO AID ASSEMBLY).
- 2 WHEN THE WIRES ARE ALL IN PLACE SECURE THE BRACKET TO THE PCB USING THE SCREWS, WASHERS & NUTS SHOWN BELOW.
- 3 SOLDER & CROP WIRES IN THE USUAL MANNER. INSERT THE CRIMP PINS INTO SOCKET J5. PIN 6 OF RELAY TO PIN 4 OF J5 & PIN 5 TO PIN 1 AS SHOWN BELOW.

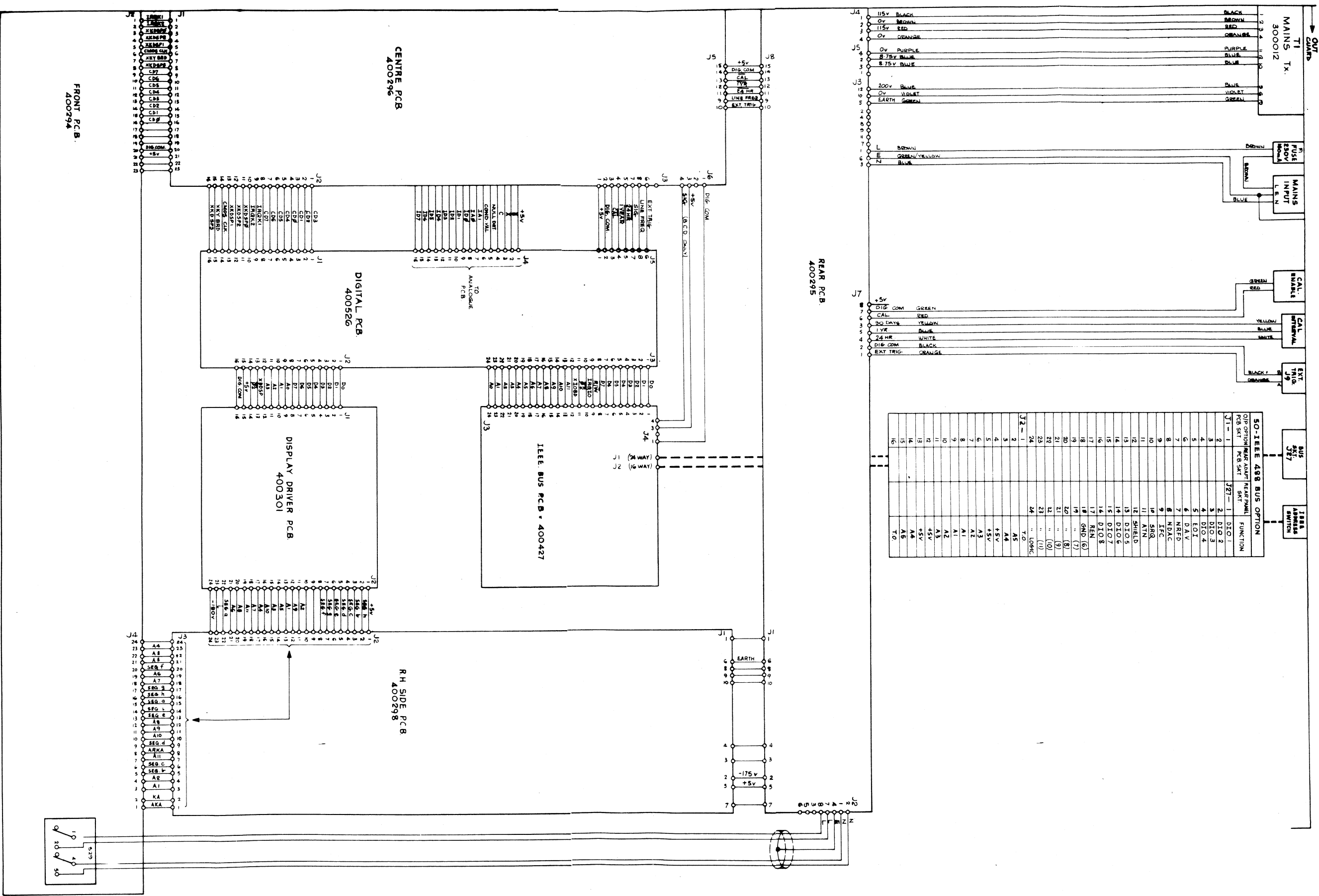


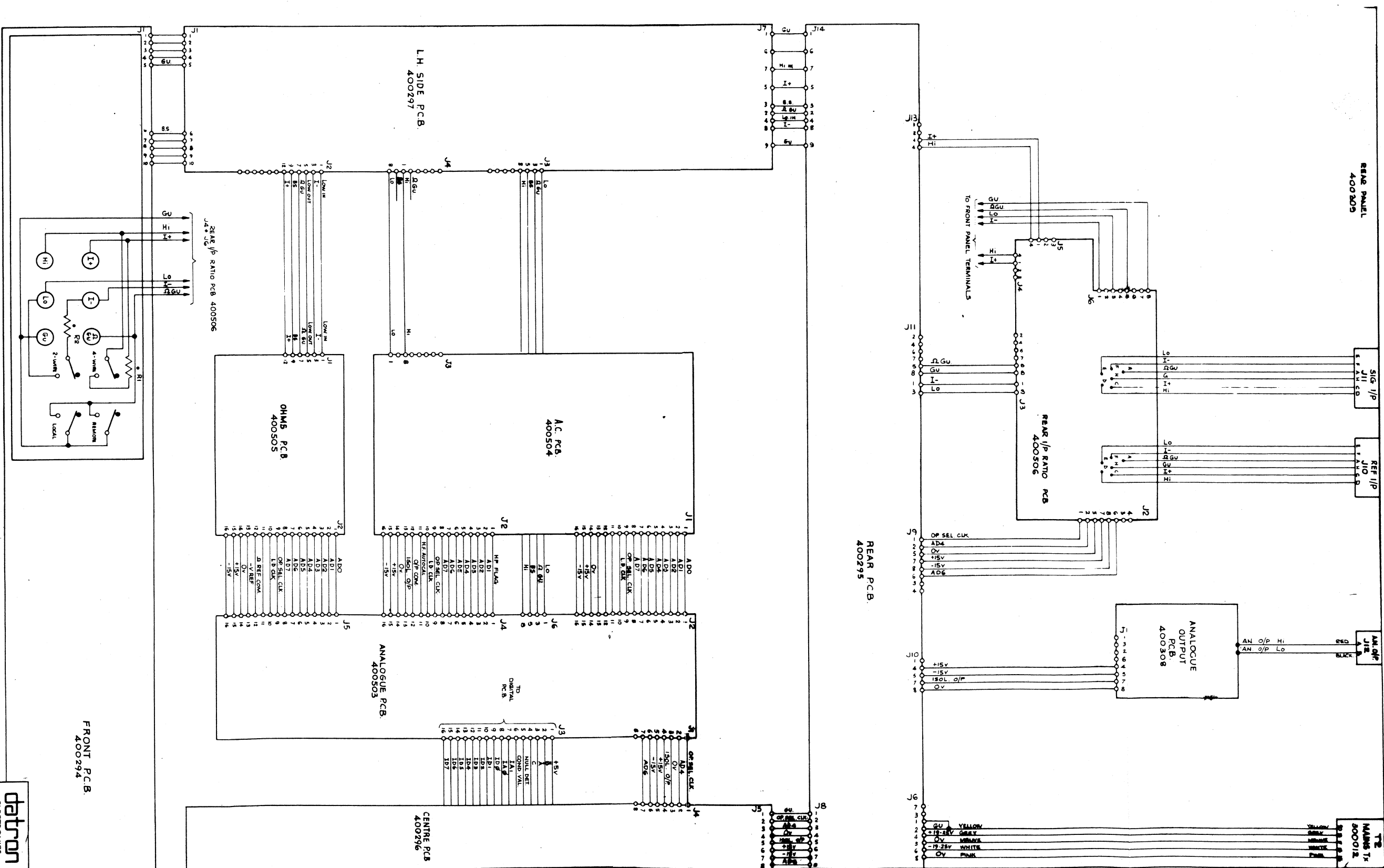
FINISHED ASSEMBLY.



4/ THE LAST PROCEDURE IS TO PLUG IN THE 4 & 2 POLE RELAYS & HOLD IN PLACE BY THE CLIPS PROVIDED AS DETAILED IN ABOVE SKETCH & FINISHED VIEW.

DRAWN IL	CHECKED MSD	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES + .005 DECIMAL TO 2 PLACES + .010 FRACTIONAL 1/64	ANGULAR +/-	MATERIAL	datron ELECTRONICS LTD. NORWICH.	DRAWING No. 400506	SHEET 2 OF 3
TRACED	APPROVED R.W.F.	SCALE	METRIC DIMENSIONS DECIMAL TO 2 PLACES + .1mm DECIMAL TO 1 PLACE + .2mm WHOLE DIMENSIONS UNLESS OTHERWISE STATED	FINISH	TITLE REAR INPUT / RATIO ASSY. 1081			
DATE 10.2.83	DATE 18.3.83	NOT TO BE SCALED						





DRAWN 11.		DATE 4-2-83		DIMENSIONS IN MILLIMETRES		TOTAL SPACES DECIMAL TO 2 PLACES : 1mm DECIMAL TO 1 PLACE : 2mm WHOLE DIMENSIONS : 1mm ABSOLUTE : 5mm		MATERIAL _____		ASSY DRG & PARTS LIST		TITLE	
CHECKED 15/5		DATE 18-2-83		SCALE _____		UNLESS OTHERWISE STATED FIRST ANGLE PROJECTION		FINISH _____		CIRCUIT DIAGRAM		1081 INTERCONNECTION DIAGRAM	
APPR. R.W.F.		DATE 12-4-83		NOT TO BE SCALED						CHECK PROCEDURE 460524		430524	
										CHECK LIST 470524		SHEET 2 OF 2	

DRAWING No.
430526

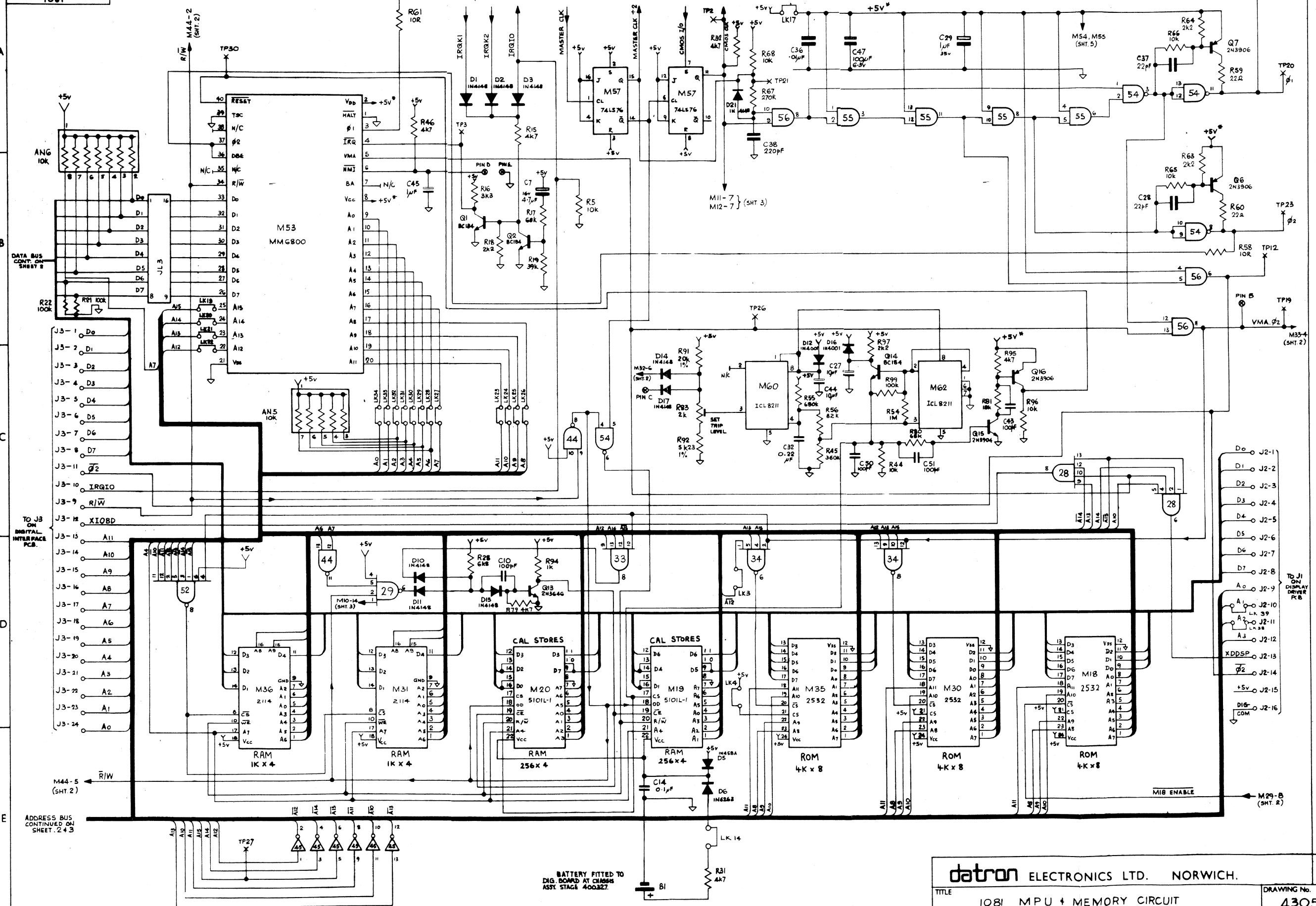
FIRST USED ON
1081

THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

ALL BURRS TO BE REMOVED

NOTES
* +5V VIA LK17



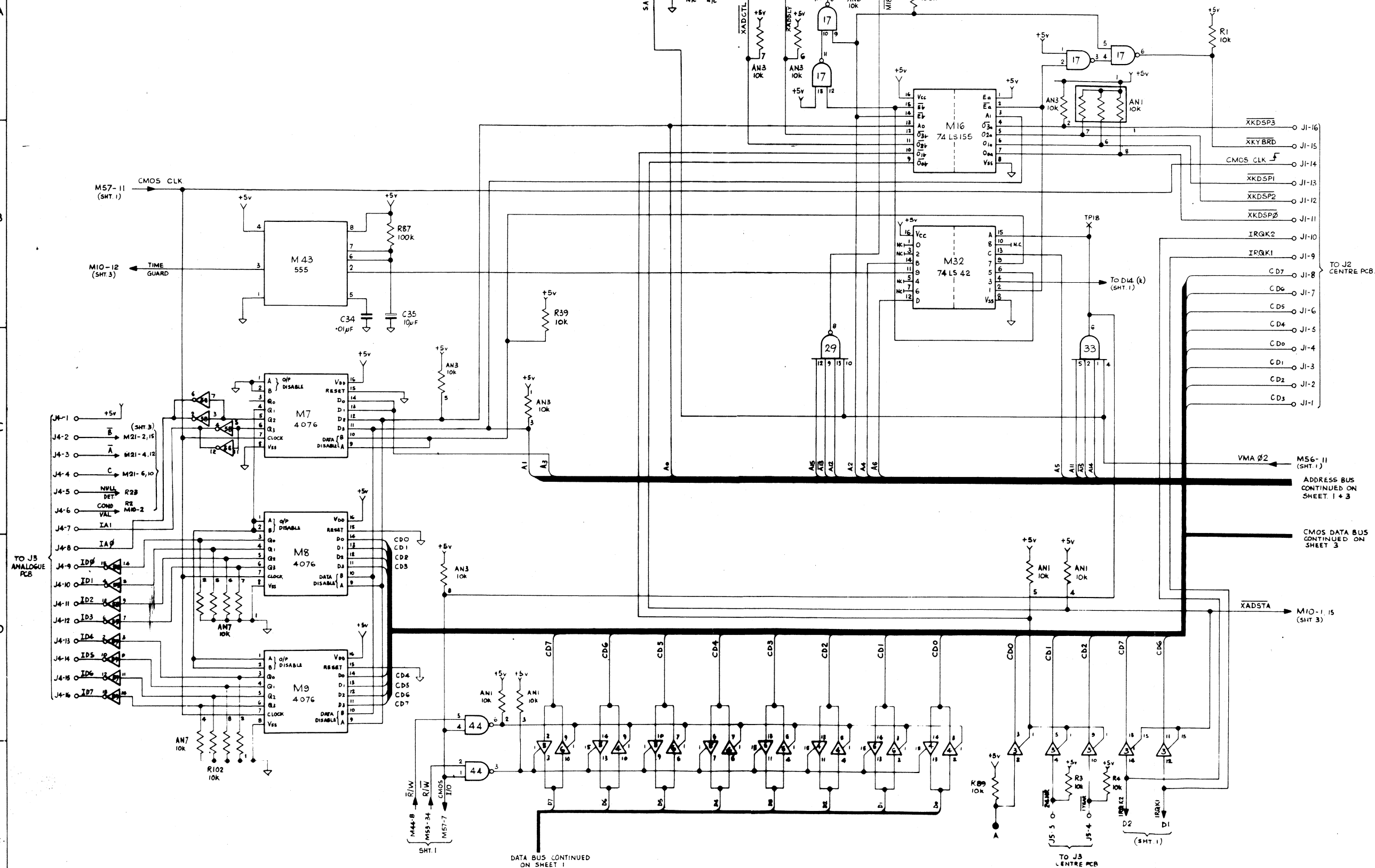
THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

ALL BURRS TO BE REMOVED

NOTES

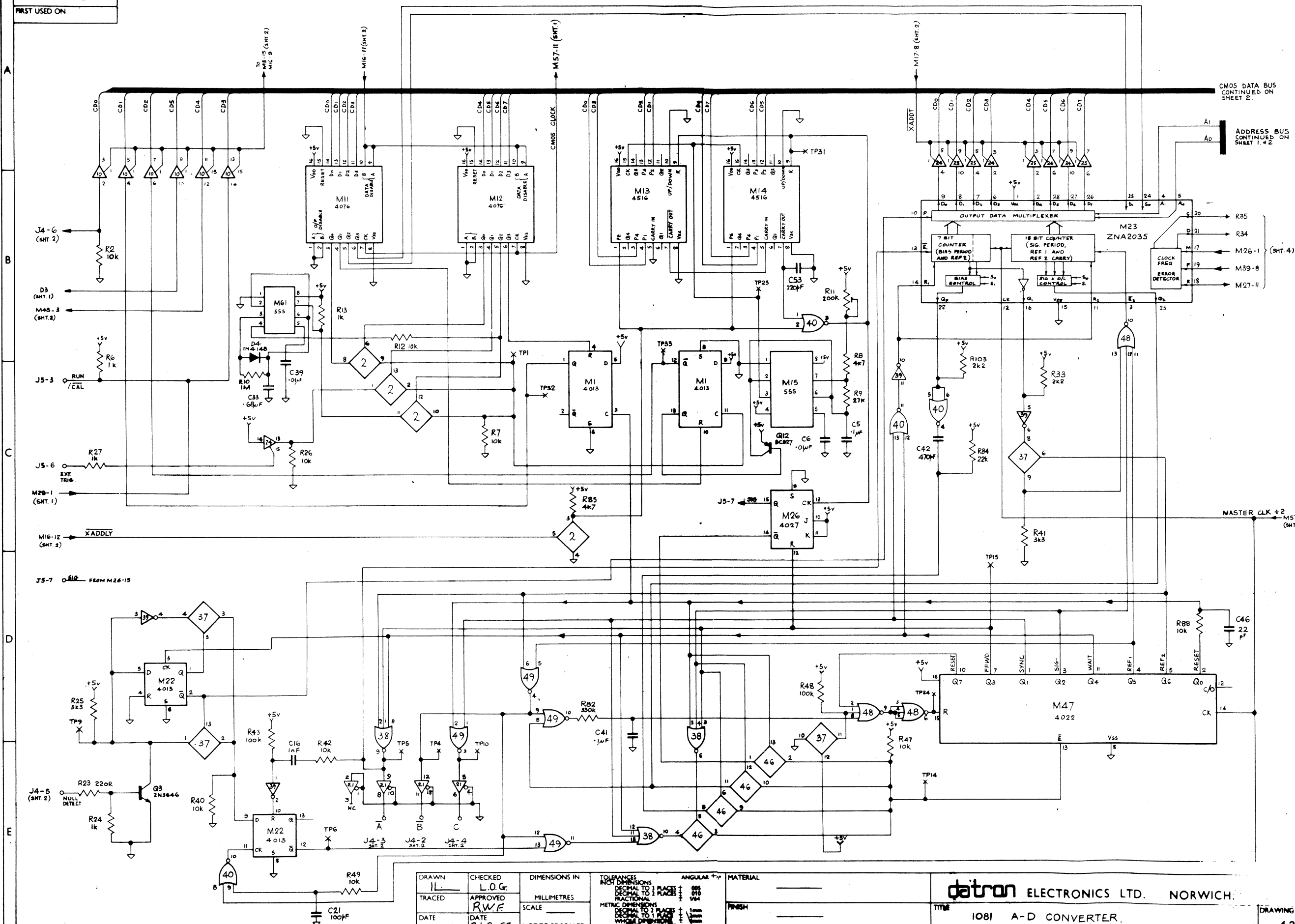
ISS.	CHANGES
1	RELEASED 31.3.83



DATA BUS CONTINUED
ON SHEET 1

TO J3
CENTRE PCB

(DRAWN IL	CHECKED L.O.G.	DIMENSIONS IN	TOLERANCES NOT DIMENSIONS	ANGULAR ±	MATERIAL	datron ELECTRONICS LTD. NORWICH	DRAWING No. 430526	SHEET 2 of 5
TRACED	APPROVED R.W.F.	MILLIMETRES	DECIMAL TO 3 PLACES : 0.05 DECIMAL TO 2 PLACES : 0.10 FRACTIONAL : 1/16					
(DATE 28.1.83	DATE	SCALE	METRIC DIMENSIONS DECIMAL TO 3 PLACES : 0.05 DECIMAL TO 2 PLACES : 0.10 DECIMAL TO 1 PLACE : 0.25 WHOLE DIMENSIONS : 1.00 UNLESS OTHERWISE STATED		TITLE	1081 CMOS ADDRESS DECODE + I/O CCT.		



DRAWN <u>IL</u>	CHECKED <u>L.O.G.</u>	DIMENSIONS IN	TOLERANCES INCH DIMENSIONS	ANGULAR $\pm$	MATERIAL
TRACED	APPROVED <u>R.W.F.</u>	MILLIMETRES	DECIMAL TO 1 PLACE $\pm$	005	FINISH
DATE 31.1.83	DATE 31-3-83	SCALE	FRACTIONS	010 1/64	
		NOT TO BE SCALED	METRIC DIMENSIONS DECIMAL TO 2 PLACES $\pm$	1mm	
			DECIMAL TO 1 PLACE $\pm$	1/16mm	
			UNLESS OTHERWISE STATED		

datron ELECTRONICS LTD. NORWICH.

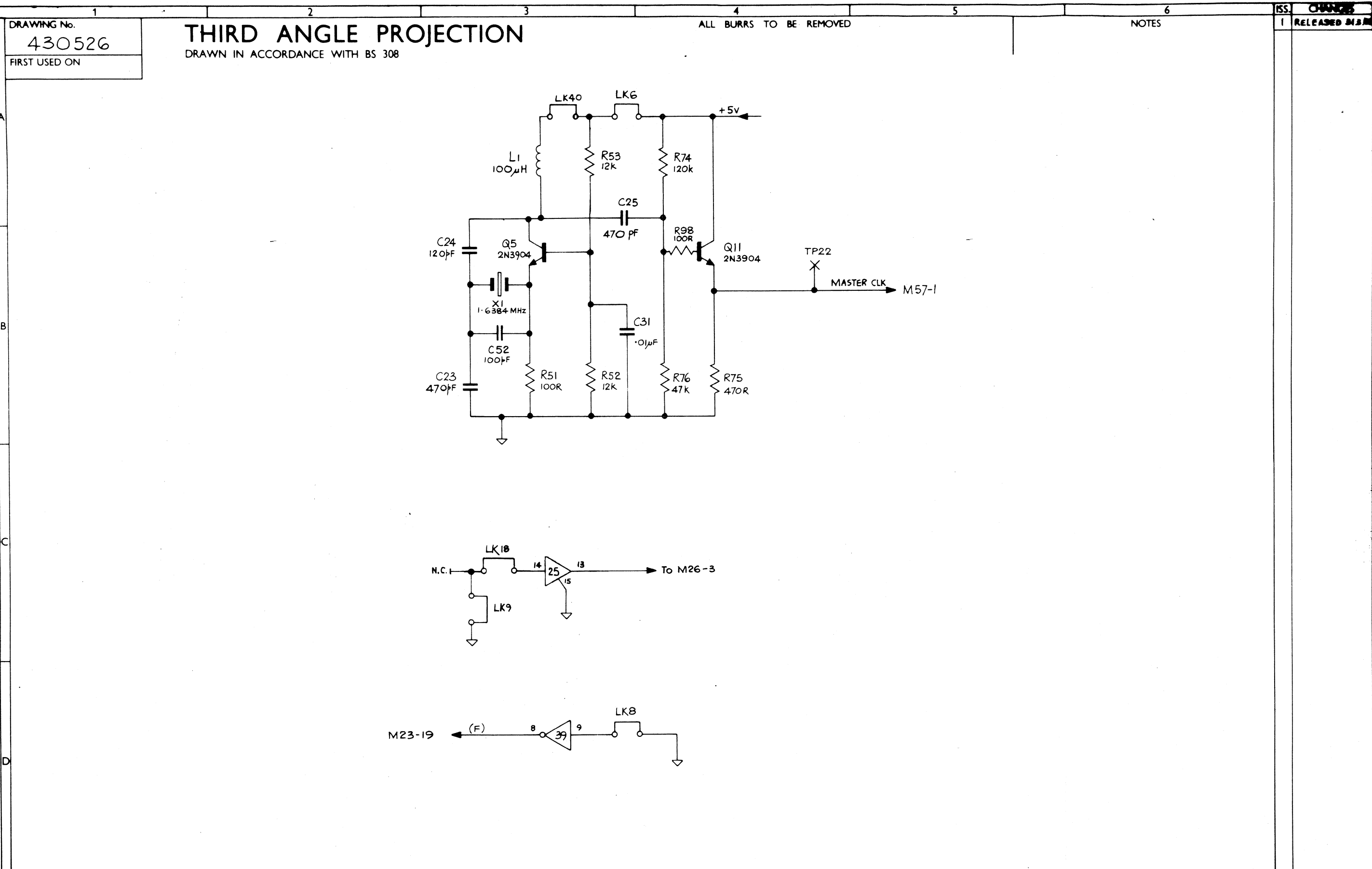
TIME	1081	A-D CONVERTER.
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DRAWING No.

430526

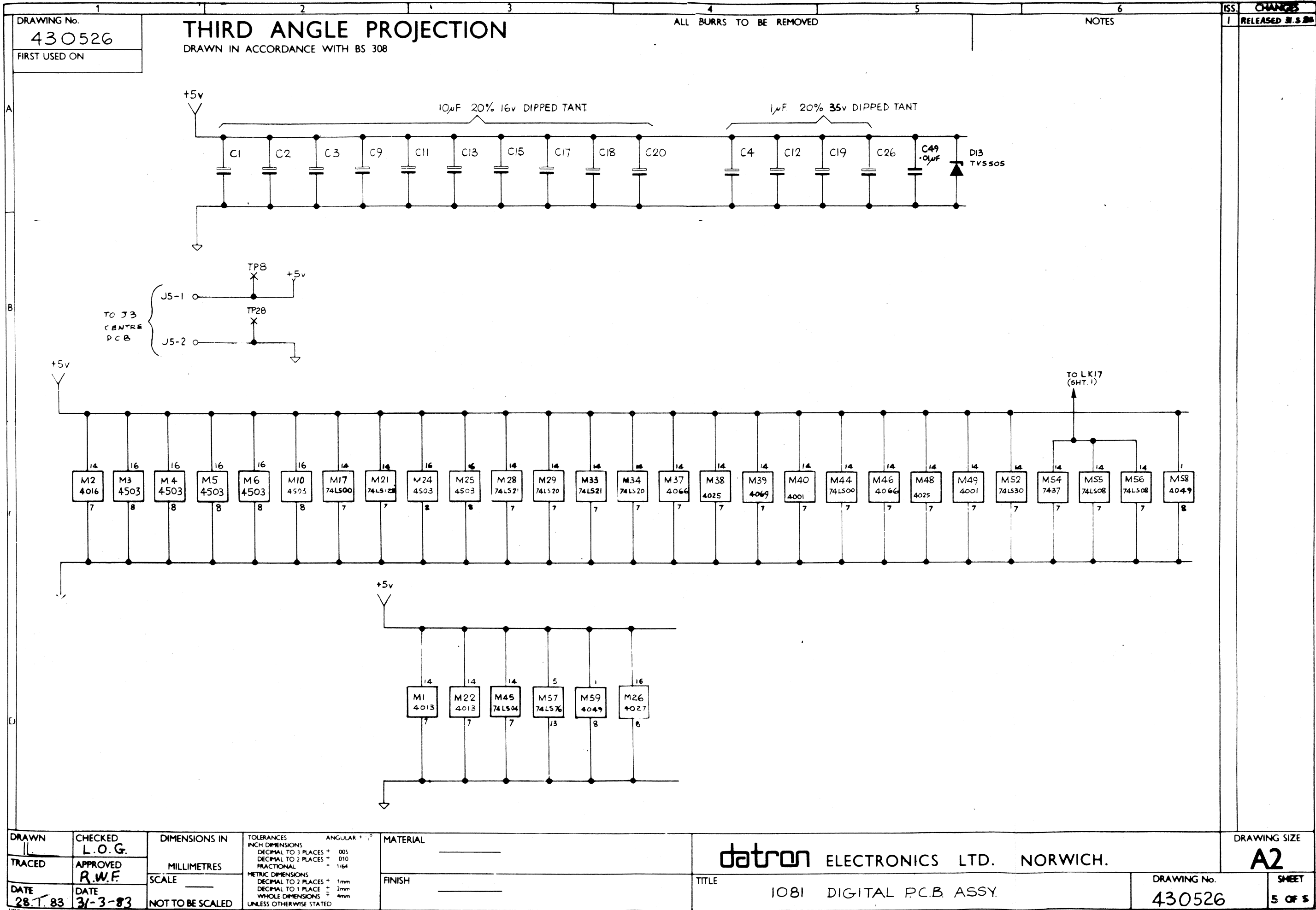
DRAWING SIZE
A1

3 OF 5



DRAWN IL	CHECKED L.O.G.	DIMENSIONS IN MILLIMETRES	TOLERANCES INCH DIMENSIONS DECIMAL TO 3 PLACES + 0.05 DECIMAL TO 2 PLACES + 0.10 FRACTIONAL + 1/64	ANGULAR + 0.5°	MATERIAL	datron ELECTRONICS LTD. NORWICH.	DRAWING No. 430526	SHEET 4 of 5
TRACED	APPROVED RW.F	SCALE	METRIC DIMENSIONS DECIMAL TO 2 PLACES ± 1mm DECIMAL TO 1 PLACE ± 2mm WHOLE DIMENSIONS ± 4mm	UNLESS OTHERWISE STATED	FINISH			
DATE 28.1.83	DATE 31-3-83	NOT TO BE SCALED						

DRAWING SIZE
A2



400526

THIRD ANGLE PROJECTION

DRAWN IN ACCORDANCE WITH BS 308

ALL BURRS TO BE REMOVED

NOTES

- 1 MAKE TP14+TP32 FROM 22 SWG BTC WIRE - PART N° 540002
- 2 LINKS(LK) MADE FROM 22SWG BTC WIRE(540002) AND SLEEVED (EXCEPT FOR LK19-LK34) 590004

N° OF WAYS	PART N°	N° OFF	USE TO MOUNT
8	605059	1	M62.
18	605062	2	M31. 36.
14	605060	22	M1. 2. 17. 21. 22. 28. 29. 38. 34. 37-40. 44-46. 48. 49. 52. 54. 55. 56.
16	605061	24	M3-14. 16. 24-27. 32. 43/60. 47. 57. 58. 18/61. 59.
22	605063	2	M19. 20.
24	605064	3	M18. 30. 35.
28	605065	1	M23
40	605060	1	M53

ISS	CHANGES
1	RELEASED 31.3.83
2	ECO. 1479.1487.1489. 18.5.83
3	ECO. 1461. EARTH WIRE ADDED. LINK (DIS. COM. LOW IMPEDANCE) BETWEEN BUS STRIP + C36 ADDED 31.5.83
4	ECO. 1503. M18. M30 + M35 WERE ISSUE 198 IL 20.6.83

PC BOARD 410096-10

5 OFF SOLDER TERMINAL 620003 PINS MARKED A, B, C etc.

R31 TO BE MOUNTED ON END 1mm ABOVE PCB.
N.B. FREE END OF R31 WILL BE SOLDERED TO BATTERY B1 AT CHASSIS ASSY. STAGE.

FIT CLIP 606005 - 3 OFF TO J1, J2 + J4, AS SHOWN

COMPONENT CLIP - FIT BETWEEN UNSCREENED LINES ON PCB

CONNECTOR PIN 601002 FOR EARTH WIRE

7/2 PTFE WIRE LINK FOR BATTERY CONNECTION 40mm LONG. 540008.

WIRE/TERMINAL ASSY 400379/1 7 OFF

BUS STRIP 920048

MOUNT X1 ON 2 OFF NYLON WASHER 616018 (AS SHOWN BELOW.)

* NYLATCH - PLUNGER 617010 - 8 OFF
N.B. FIT FROM COMPONENT SIDE OF PCB.

NYLATCH - GROMMET 617011 - 8 OFF

SECTION A-A (TYPICAL)

TEST POINT TERMINAL 620007 24 OFF.

7/2 PTFE WIRE (BUS STRIP TO C36) 140mm 540008

ILL	DATE 13.12.82	APPROVED R.W.F.	DATE 31-3-83	DIMENSIONS IN MILLIMETRES 2:1 NOT TO BE SCALED	TOLERANCES IN CH DIMENSIONS: DECIMAL TO 1 PLACE: 0.5mm DECIMAL TO 2 PLACES: 0.25mm DECIMAL TO 3 PLACES: 0.1mm DECIMAL TO 4 PLACES: 0.05mm FRACTIONAL: 1/16 1/8 1/4 1/2 3/4 1 1 1/2 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 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	MATERIAL FINISH	datron ELECTRONICS LTD. NORWICH.	TITLE 1081 DIGITAL PCB ASSY	DRAWING No. 400526	DRAWING SIZE A1
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