A | B | C | D | E

TREND REA...

Row labels (top): A, B, C, D, E

**Component blocks (row 1):**
G D1 | D D2 | D D3 | D D4 | D D5 | D D6 | V D7
V D8
C3 | D9

**Row 2:**
A D11
R5
C1 R1 | A D14 | C2 R4 | A D15 | R2 R3 | A D16 | R8 R5 R9 R7

**Connector pad rows:**
H1 E1 B1 Y V S P M J G D A
I1 F1 C1 Z W T Q N K H E B
J1 G1 D1 A1 X U R O L I F C

SQC 45

Pin numbers (bottom row): 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

SQC 45   TO...

**Lower schematic:**

SPROCKET ENABLE P17
DL 15/2 | DL 14/1 | DL 14/2 | DL 1/1
+5V R2 4·7KΩ
DL 15/4
0V
R3 4·7KΩ +5V
DL 15/1
100p1 C1
R1 1KΩ 0V

P24 D Q / C Q̄ DL 2/2 — DL 7/6 — CHANNEL 8 Pd F

SPROCKET P18
DL 15/5
150p1 C2
R4 1KΩ 0V
DL 9/1 | DL 9/4 | DL 9/3
100p1 0V

P22 DL 3/1 — DL 7/1 — CHANNEL 7 Pd R
P20 DL 3/2 — DL 7/2 — CHANNEL 1 Pd Q
P19 DL 4/1 — DL 8/6 — CHANNEL 5 Pd L

DL 8/1 | DL 8/2
0V
D Q Pd G READY
C Q̄ P15 TRANSPORT ENABLE
DL 2/1

START
C3 1500p1
DL 14/4 | DL 14/3 | DL 11/3
R6 4·7KΩ +5V
R5 1KΩ 0V

P9 DL 5/1 — DL 5/4 — CHANNEL 2 Pd K
P2 DL 5/2 — DL 7/5 — CHANNEL 4 Pd D

Pd A1
DL 16/2 DRIVE LEFT P14
0V
Pd D1 DL 16/3 DRIVE RIGHT P13
R8 4·7KΩ +5V

+5V R7 4·7KΩ
Pd 11
DL 16/1 CHANNELS ENABLE P10
0V
Pd X DL 16/4 CHANNELS INHIBIT P16
R9 4·7KΩ +5V

P7 DL 6/1 — DL 7/3 — CHANNEL 3 Pd N
P6 DL 6/2 — DL 7/4 — CHANNEL 6 Pd E

**ICL**

| ISSUE | A 4·75 | B 7·75 | 1 4·76 | | | | |
|---|---|---|---|---|---|---|---|

2980 DCU

TREND READER FEATURE

TREND READER

SQC 45

**WIRING** — **LOCATION** (TREND READER)
1. SPECIAL T.R BOARD, SQC 45
2. INTERFACE CABLEFORM A.
3. INTERFACE CABLEFORM B.
4. LEVEL CHANGER. (A25 GP. Ø13)
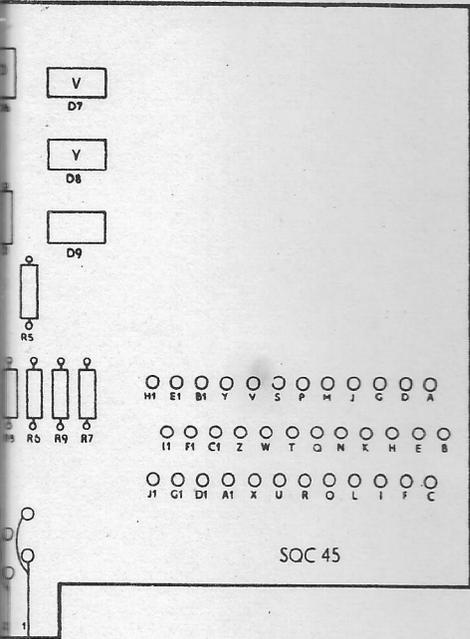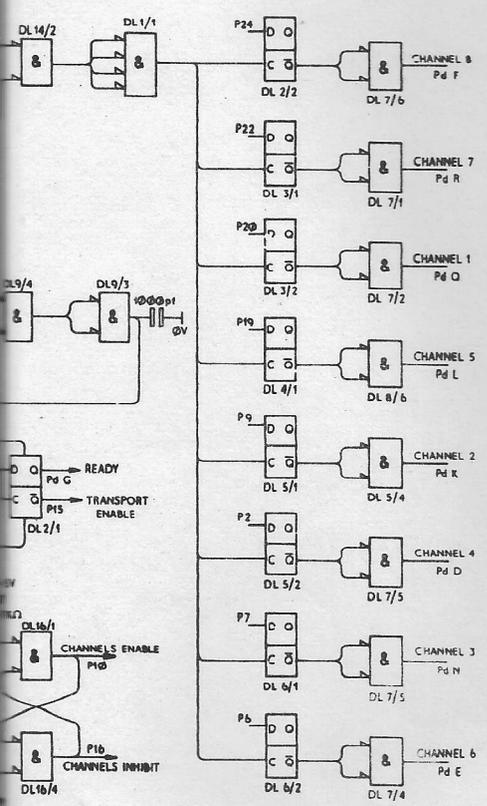5.
6. C2Ø4 } ADJACENT MACRO (B25 GP. Ø13)
7. C2Ø5 } CONNECTOR (B26GP. Ø13)

TREND READER
SQC 45

BURNDAY
MS5ØP-B15Ø

'B' CARD

BURNDAY
MS5ØR-B7T
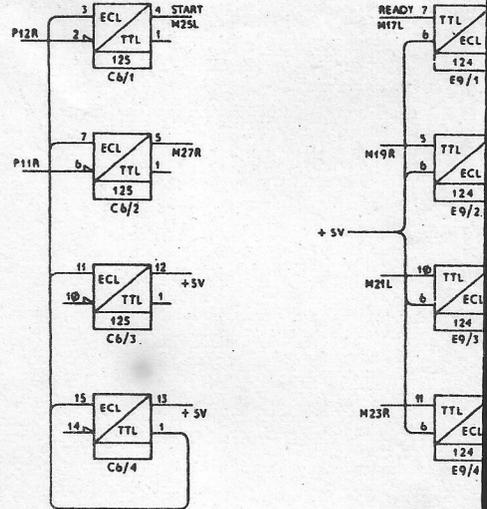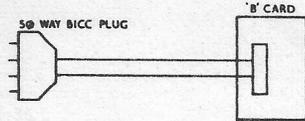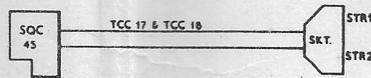
| STR.1. & STR.2. | PAD No. | FUNCTION | COLOURS |
|---|---|---|---|
| PIN 1 | Pd S | CHANNEL 1 | BROWN |
| PIN 2 | Pd H | CHANNEL 2 | RED |
| PIN 3 | Pd M | CHANNEL 3 | ORANGE |
| PIN 4 | Pd A | CHANNEL 4 | YELLOW |
| PIN 5 | Pd I | CHANNEL 5 | GREEN |
| PIN 6 | Pd B | CHANNEL 6 | BLUE |
| PIN 7 | Pd P | CHANNEL 7 | VIOLET |
| PIN 8 | Pd C | CHANNEL 8 | GREY |
| PIN 9 | Pd G | READY | WHITE |
| PIN 10 | Pd T | START | BLUE/WHITE |
| PIN 11 | Pd W | SPROCKET | BLUE/BLACK |
| PIN 12 | Pd O | T.R.ALARM | BLUE/YELLOW |
| PIN 13 | Pd Z | SPROCKET PULSE | RED/BROWN |
| PIN 14 | Pd G1 | Ø.V. | BLACK |
| PIN 15 | Pd Y | SPEED CONTROL | TURQUOISE |
| PIN 16 | Pd B1 | | PINK |
| PIN 17 | Pd I1 | CHANNELS ENABLE | RED/BLACK |
| PIN 18 | Pd X | CHANNELS INHIBIT | RED/WHITE |
| PIN 19 | Pd A1 | DRIVE LEFT | RED/YELLOW |
| PIN 20 | Pd D1 | DRIVE RIGHT | RED/GREEN |
| PIN 21 | Pd E1 | R.T.A RESET | RED/BLUE |
| PIN 22 | Pd H1 | T.P. | GREEN/ORANGE |
| PIN 23 | Pd F1 | ON | WHITE/GREEN |
| PIN 24 | Pd C1 | OFF | YELLOW/GREEN |
| PIN 25 | Pd J1 | -6V | BLUE/ORANGE |

5Ø WAY BICC PLUG    'B' CARD

| 5Ø WAY PLUG | | B CARD | | SIGNAL |
|---|---|---|---|---|
| GREEN | BLACK | GREEN | BLACK | |
| 1 | (26) | 1L | 1R | DATA Ø |
| 2 | (27) | 3R | 3L | DATA 1 |
| 3 | (28) | 5L | 5R | DATA 2 |
| 4 | (29) | 7R | 7L | DATA 3 |
| 5 | (3Ø) | 9L | 9R | DATA 4 |
| 6 | (31) | 11R | 11L | DATA 5 |
| 7 | (32) | 13L | 13R | DATA 6 |
| 8 | (33) | 15R | 15L | DATA 7 |
| 9 | (34) | 17L | 17R | READY |
| 10 | (35) | 25L | 25R | START |
| 14 | — | 31L | — | Ø VOLTS |

1. GREEN/BLACK TWISTED PAIRS
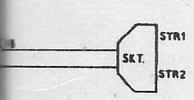2. BICC PLUG IN ICL NUMBERING

2980 DCU          TREND READER

FEATURE

BURNDAY
MS50P- B150

'B' CARD

LOCATION
(TREND READER)

GP. 013)
GP. 013)
GP. 013)

**Left ECL/TTL column (C6):**

3 → ECL 4 START M25L
P12R 2 → TTL 125 C6/1

7 → ECL 5 M27R
P11R 6 → TTL 125 C6/2

11 → ECL 12 +5V
10 → TTL 125 C6/3

15 → ECL 13 +5V
14 → TTL C6/4

**Middle TTL/ECL column (E9):**

READY 7 → TTL 1
M17L 6 → ECL 124 3 P33R E10/1Y
E9/1

5 → TTL 2
M19R 6 → ECL 124 4 E10/2Y
E9/2

+5V

10 → TTL 15
M21L 6 → ECL 124 12 E10/3Y
E9/3

11 → TTL 14
M23R 6 → ECL 124 13 E10/4B
E9/4
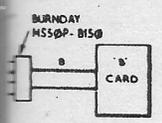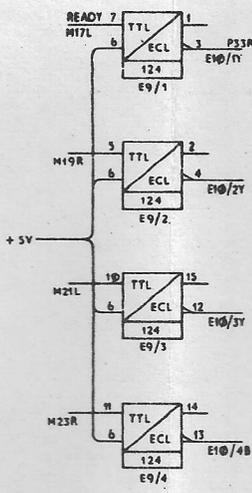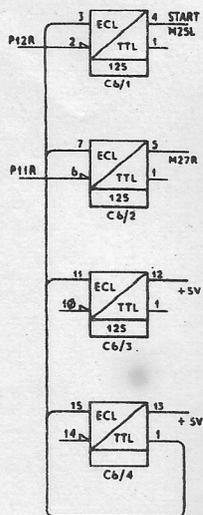
PIN NUMBERS ARE
MACRO PIN NUMBERS

POWER PIN 9 = +5V
PIN 8 = −5·2V
PIN 10 = 0V
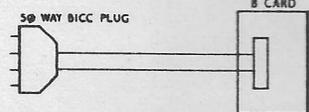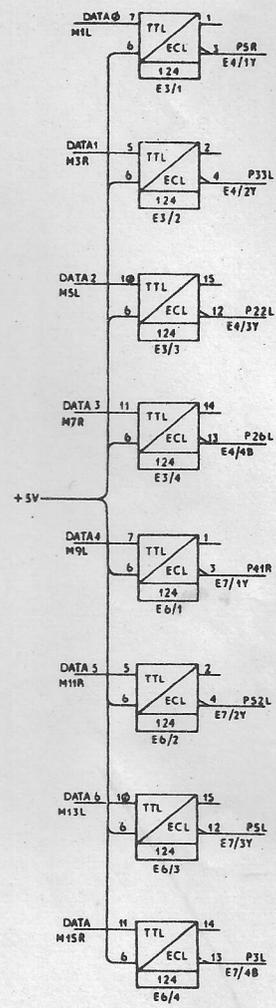
**Right TTL/ECL column (E3, E6):**

DATA0 7 → TTL 1 P5R
M1L 6 → ECL 124 3 E4/1Y
E3/1

DATA1 5 → TTL 2 P33L
M3R 6 → ECL 124 4 E4/2Y
E3/2

DATA2 10 → TTL 15 P22L
M5L 6 → ECL 124 12 E4/3Y
E3/3

DATA3 11 → TTL 14 P26L
M7R 6 → ECL 124 13 E4/4B
E3/4

+5V

DATA4 7 → TTL 1 P41R
M9L 6 → ECL 124 3 E7/1Y
E6/1

DATA5 5 → TTL 2 P52L
M11R 6 → ECL 124 4 E7/2Y
E6/2

DATA6 10 → TTL 15 P5L
M13L 6 → ECL 124 12 E7/3Y
E6/3

DATA7 11 → TTL 14 P3L
M15R 6 → ECL 124 13 E7/4B
E6/4

SKT. STR1 STR2

50 WAY BICC PLUG     'B' CARD

| | COLOURS |
|---|---|
| | BROWN |
| | RED |
| | ORANGE |
| | YELLOW |
| | GREEN |
| | BLUE |
| | VIOLET |
| | GREY |
| | WHITE |
| | BLUE/WHITE |
| | BLUE/BLACK |
| | BLUE/YELLOW |
| PULSE | RED/BROWN |
| | BLACK |
| CONTROL | TURQUOISE |
| | PINK |
| ENABLE | RED/BLACK |
| INHIBIT | RED/WHITE |
| | RED/YELLOW |
| | RED/GREEN |
| | RED/BLUE |
| | GREEN/ORANGE |
| | WHITE/GREEN |
| | YELLOW/GREEN |
| | BLUE/ORANGE |

| 50 WAY PLUG | | B CARD | | SIGNAL |
|---|---|---|---|---|
| GREEN | BLACK | GREEN | BLACK | |
| 1 | (26) | 1L | 1R | DATA 0 |
| 2 | (27) | 3R | 3L | DATA 1 |
| 3 | (28) | 5L | 5R | DATA 2 |
| 4 | (29) | 7R | 7L | DATA 3 |
| 5 | (30) | 9L | 9R | DATA 4 |
| 6 | (31) | 11R | 11L | DATA 5 |
| 7 | (32) | 13L | 13R | DATA 6 |
| 8 | (33) | 15R | 15L | DATA 7 |
| 9 | (34) | 17L | 17R | READY |
| 10 | (35) | 25L | 25R | START |
| 14 | — | 31L | — | 0 VOLTS |

1. GREEN/BLACK TWISTED PAIRS
2. BICC PLUG IN ICL NUMBERING

LEVEL CHANGER BOARD
(G.P. 013/A26)

TREND READER

65/94584 / 140

OD 140

152/G/3

S.J.