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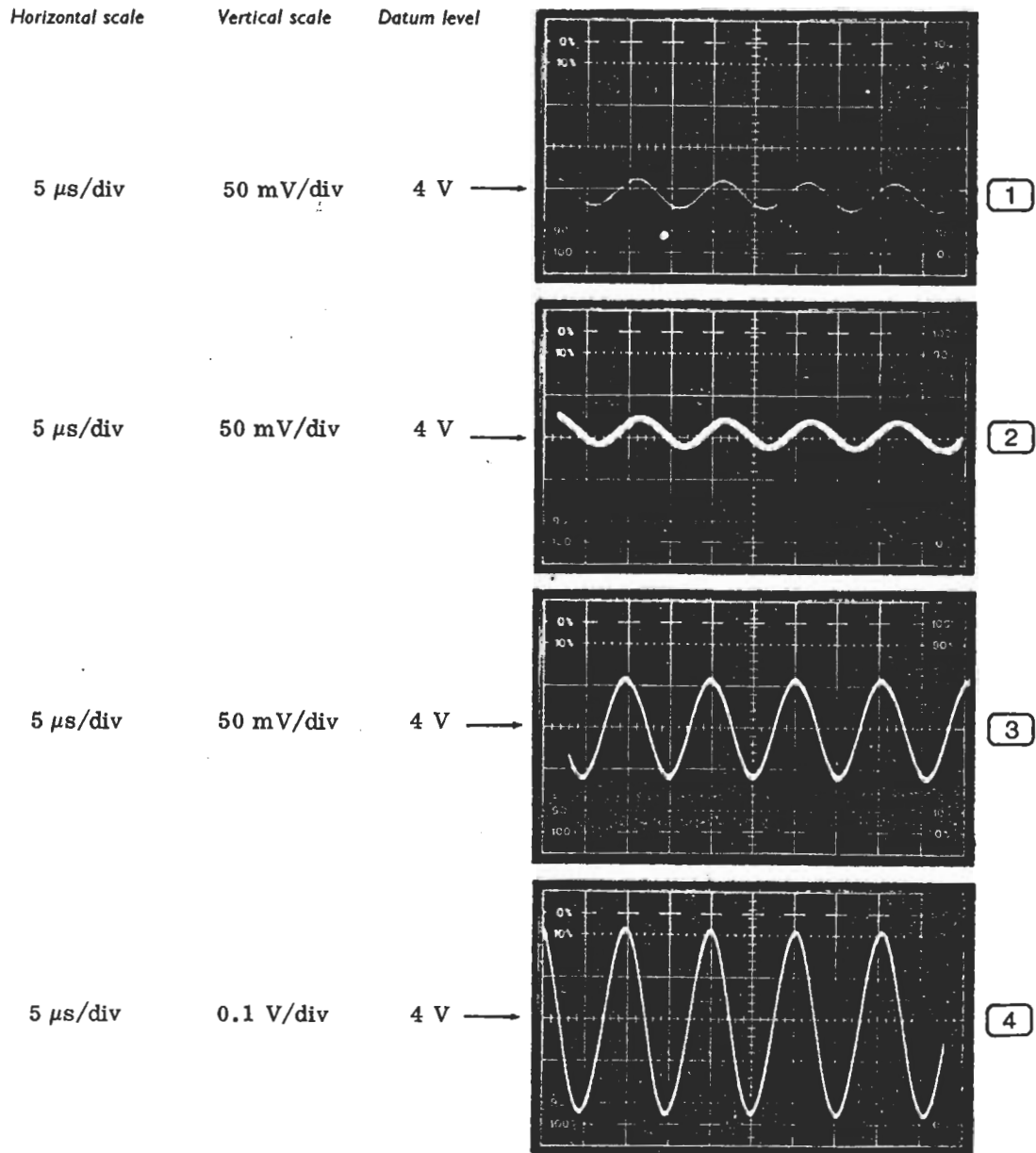
Waveforms for AD1 and AD2

TF 2370 controls - SWEEP MODE : AUTO

FILTER BANDWIDTH : NORMAL

VERTICAL SCALE RANGE : 10 dB/DIV

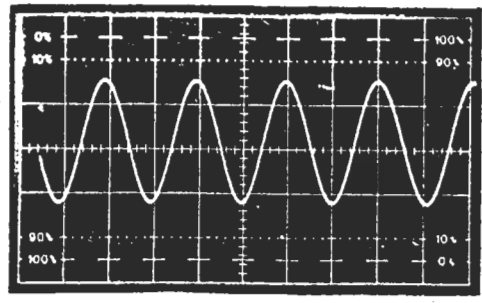
Feed a 100 kHz 33 mV p-p signal to pin 32 on AD1 with the wire to this pin disconnected.



5 $\mu\text{s}/\text{div}$

0.5 V/div

4 V \rightarrow

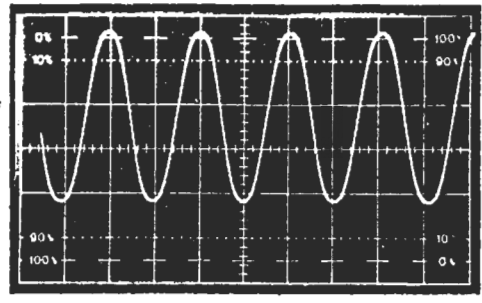


5

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

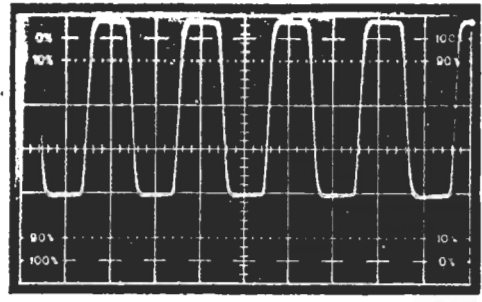


6

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

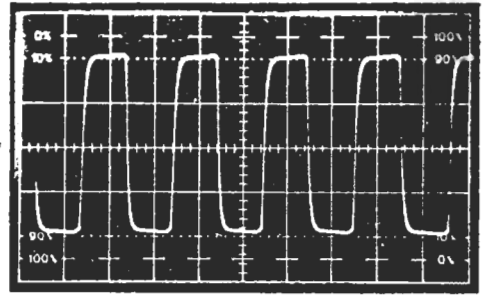


7

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

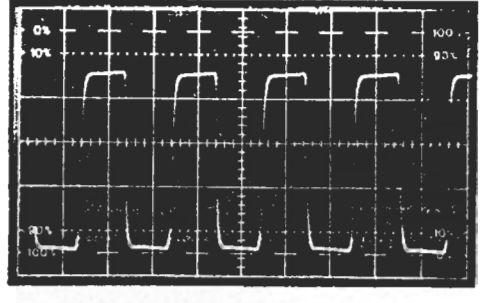


8

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

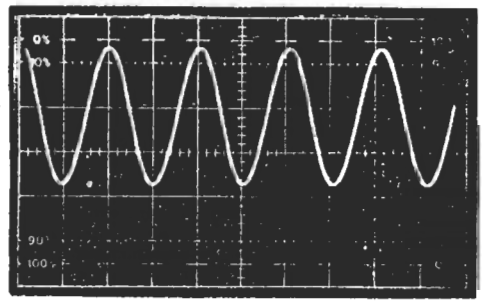


9

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

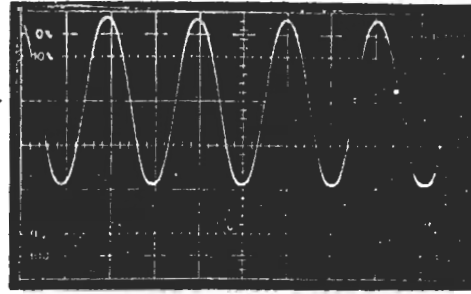


10

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

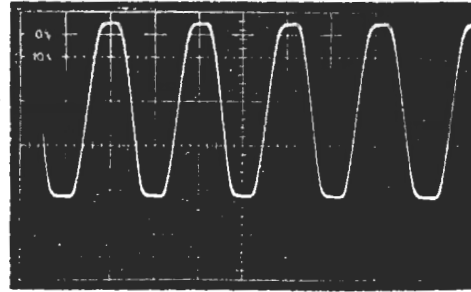


11

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

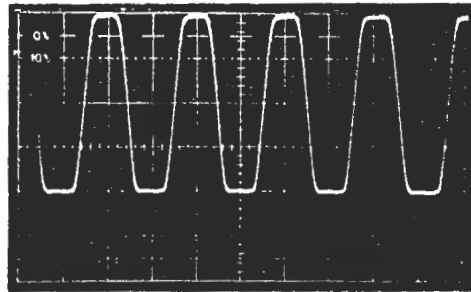


12

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

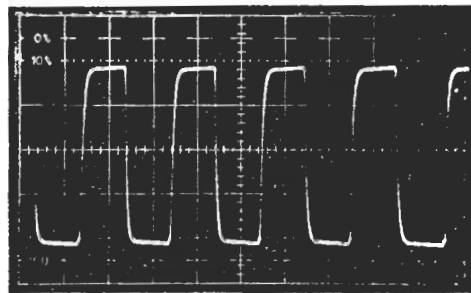


13

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

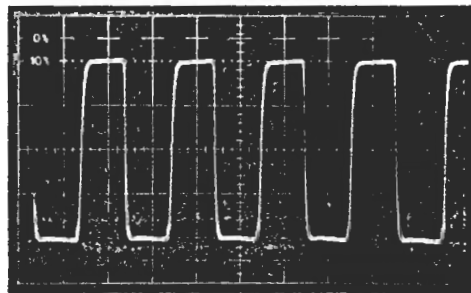


14

5 $\mu\text{s}/\text{div}$

1 V/div

4 V \rightarrow

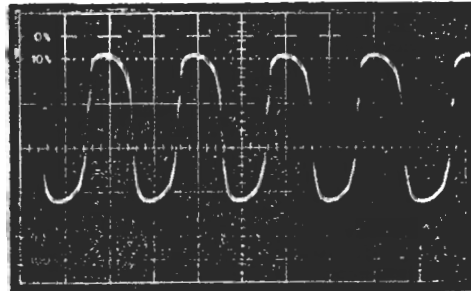


15

5 $\mu\text{s}/\text{div}$

0.5 V/div

3 V \rightarrow

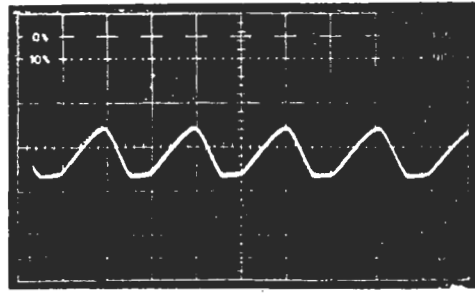


16

5 μ s/div

50 mV/div

0 V \rightarrow

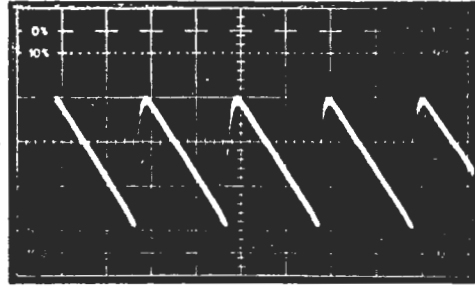


17

5 μ s/div

50 mV/div

0.9 V \rightarrow

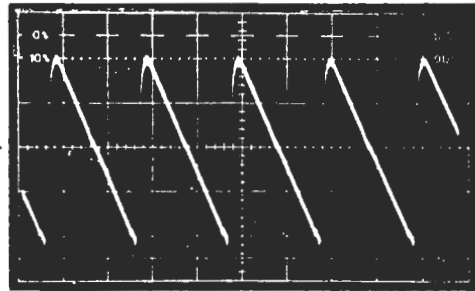


18

5 μ s/div

50 mV/div

1.2 V \rightarrow

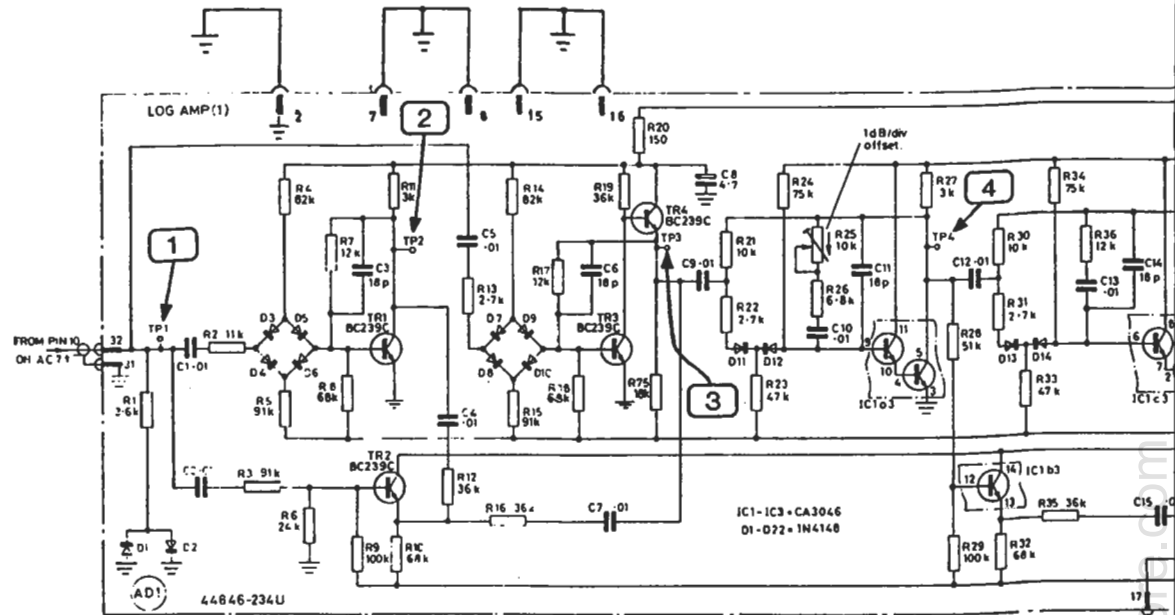


19

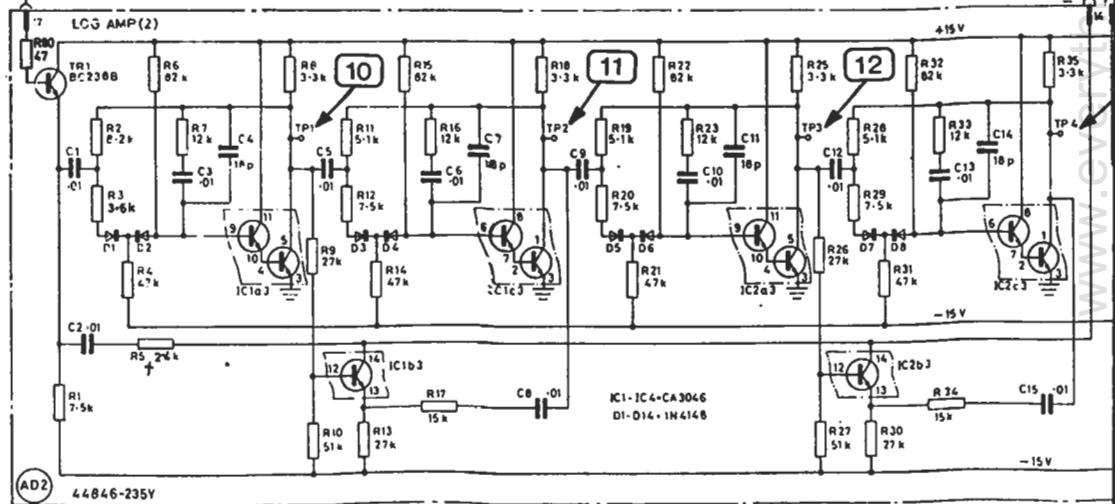
17

18

19



↑ INDICATES LEAD ROUTED VIA REAR PANEL PL 8 SK
SEE AO1 P1 1



DRG. No. Z44846-234 U ISSUE 10

AD2

74 76 75

64

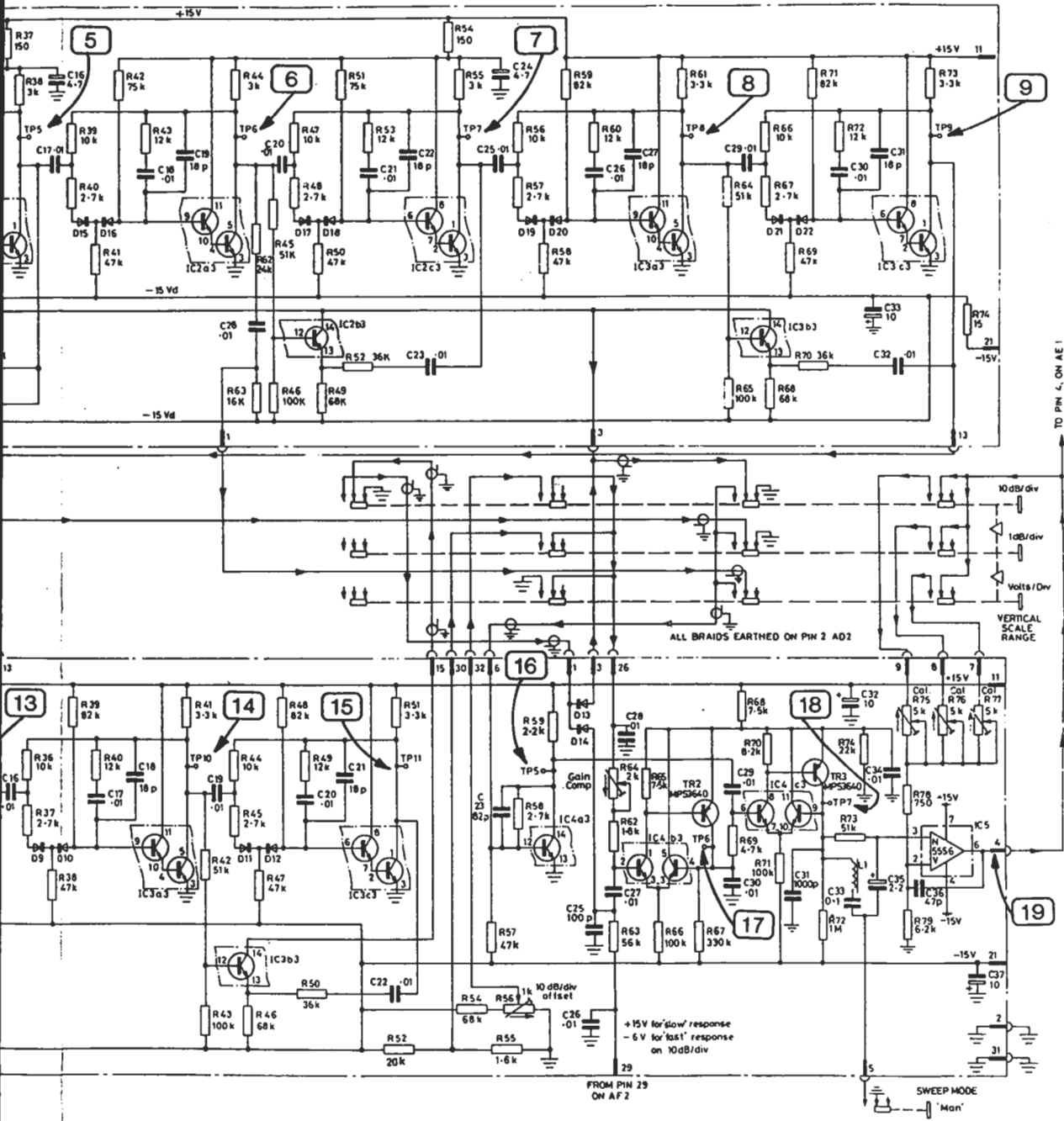


Fig. 7.18 Logarithmic amplifier AD1 and AD2

Waveforms for AE1

TF 2370 controls - SWEEP MODE : AUTO

HORIZONTAL SCALE and RANGE : (1) to (10) 0.5 MHz/DIV
(11) to (22) to 10 MHz/DIV

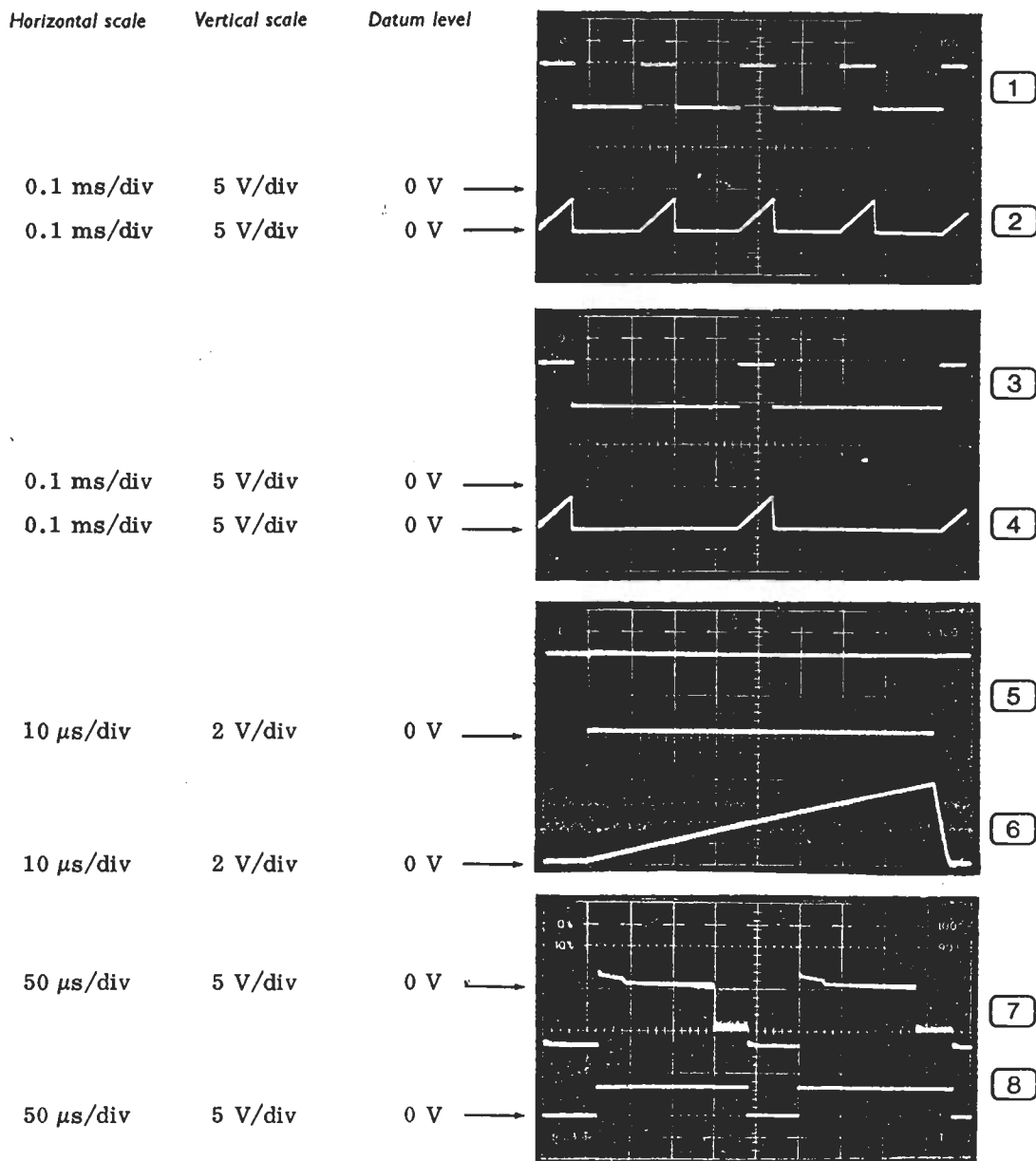
FILTER BANDWIDTH : (1) to (10) NORMAL
(11) to (22) WIDE

VERTICAL SCALE and RANGE : 0 dBm 10 dB/DIV

STORE and DISPLAY : (1), (2) and (5) to (22) HIGH DEFN
(3) and (4) A

For (1) to (10), connect the TRACKING GENERATOR OUTPUT to the INPUT.

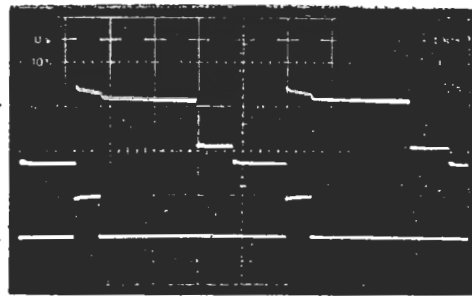
For (11) to (22), use a pulse generator triggered from pin 26 on AE1. Connect the pulse generator to pin 4 on AE1, disconnecting the wire from pin 4 on AD2. Set the pulse width to 5 μ s with a rise time of 1 μ s. Trigger the oscilloscope (a.c. positive) from the sync output of the pulse generator. Adjust the output level of the pulse generator to give a display on the CATHODE RAY TUBE of 3 divisions high. Set the pulse generator to a delay of 20 μ s for (11) to (14) and 60 μ s for (15) to (22).



50 $\mu\text{s}/\text{div}$

5 V/div

0 V



9

50 $\mu\text{s}/\text{div}$

5 V/div

0 V

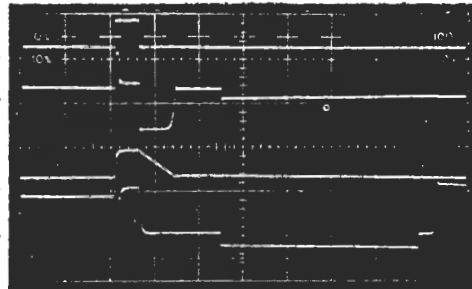


10

10 $\mu\text{s}/\text{div}$

1 V/div

0 V

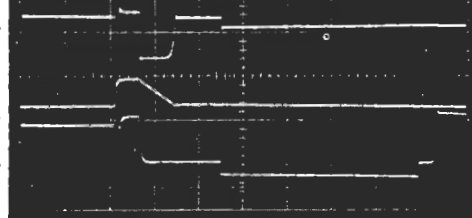


11

10 $\mu\text{s}/\text{div}$

5 V/div

0 V

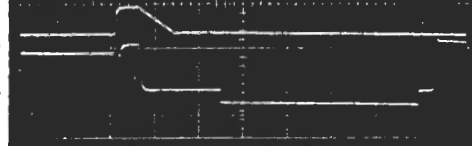


12

10 $\mu\text{s}/\text{div}$

1 V/div

0 V



13

10 $\mu\text{s}/\text{div}$

5 V/div

-5 V

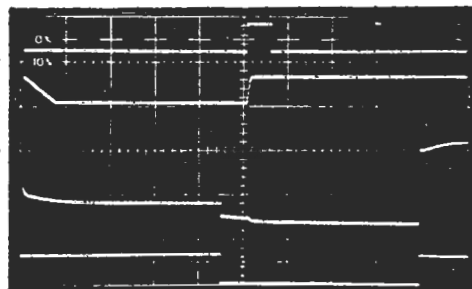


14

10 $\mu\text{s}/\text{div}$

1 V/div

0 V

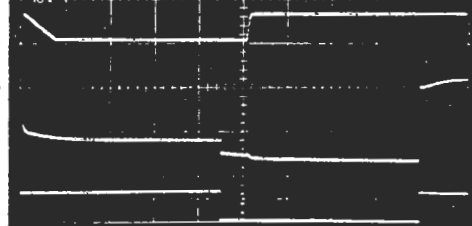


15

10 $\mu\text{s}/\text{div}$

1 V/div

0 V

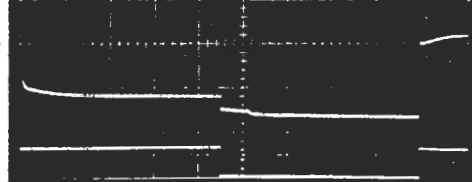


16

10 $\mu\text{s}/\text{div}$

5 V/div

0 V



17

10 $\mu\text{s}/\text{div}$

5 V/div

0 V

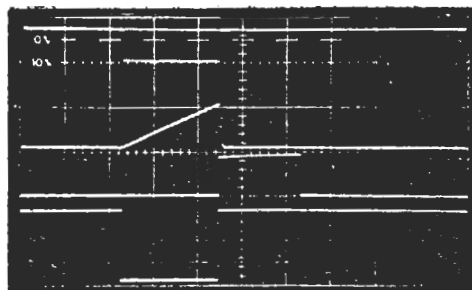


18

20 $\mu\text{s}/\text{div}$

5 V/div

0 V

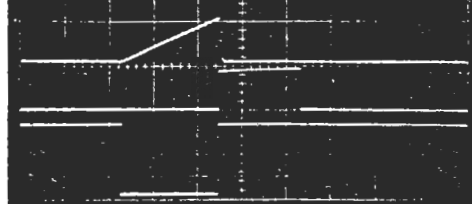


19

20 $\mu\text{s}/\text{div}$

2 V/div

0 V

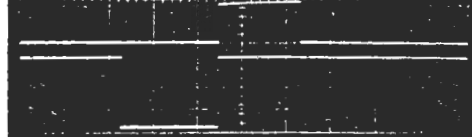


20

20 $\mu\text{s}/\text{div}$

5 V/div

0 V

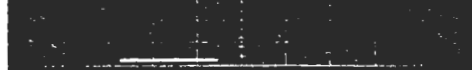


21

20 $\mu\text{s}/\text{div}$

2 V/div

0 V



22

9

10

11

12

13

14

15

16

17

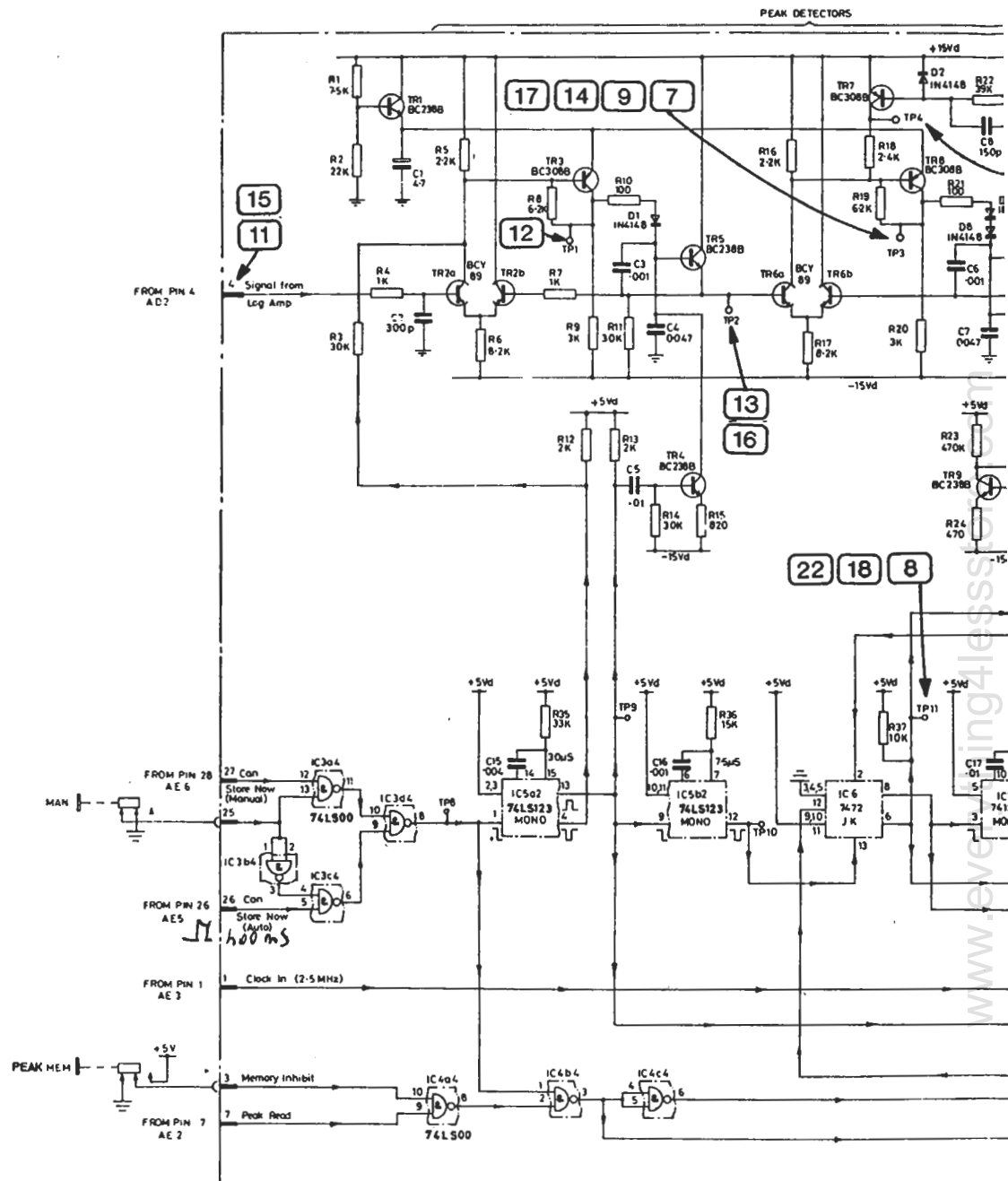
18

19

20

21

22



Drg. No. Z44828-110N ISSUE 1

Waveforms for AE2

TF 2370 controls - SWEEP MODE : (1) to (6) AUTO
(7) SINGLE

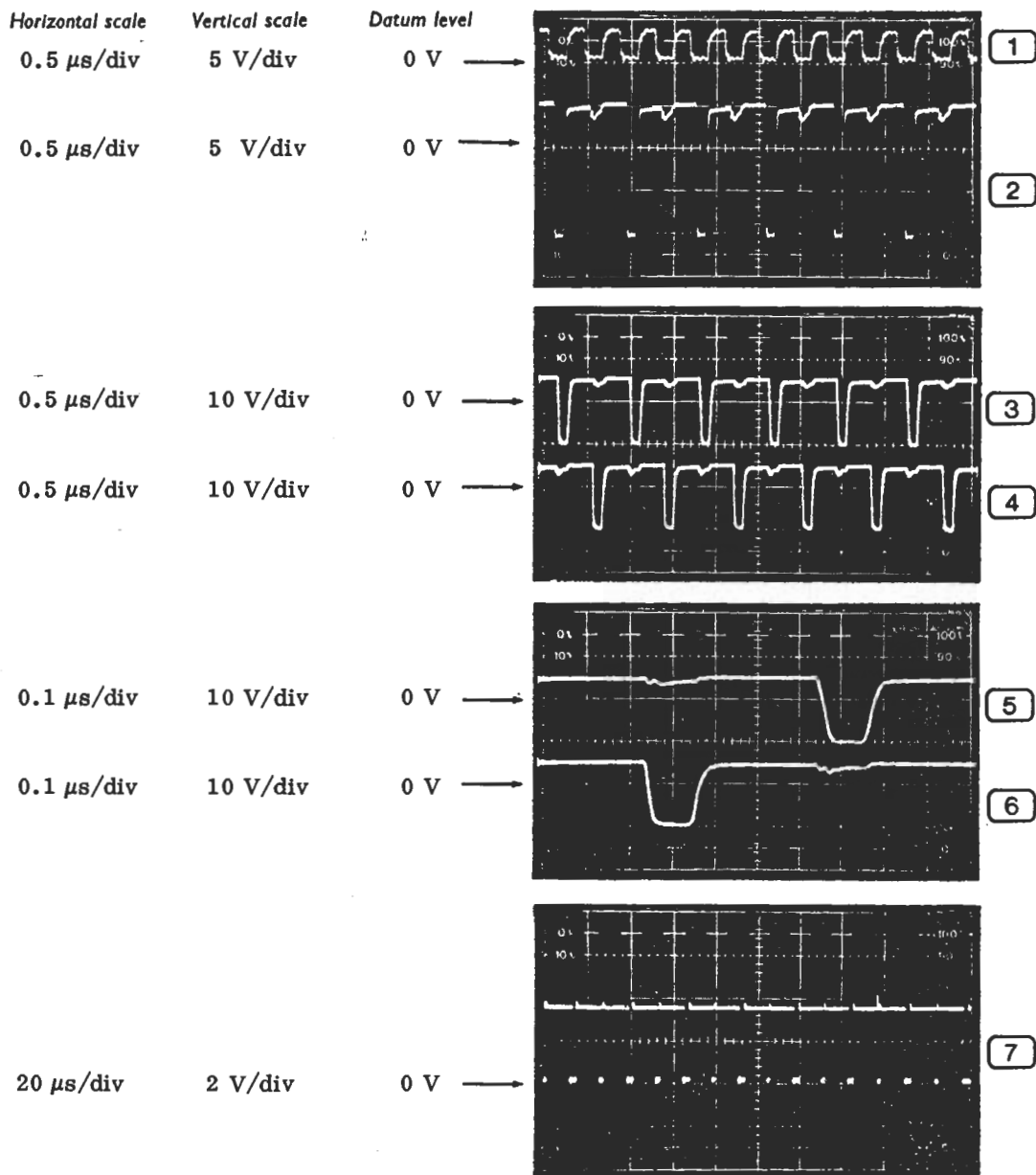
HORIZONTAL SCALE and RANGE : 0.2 MHz/DIV

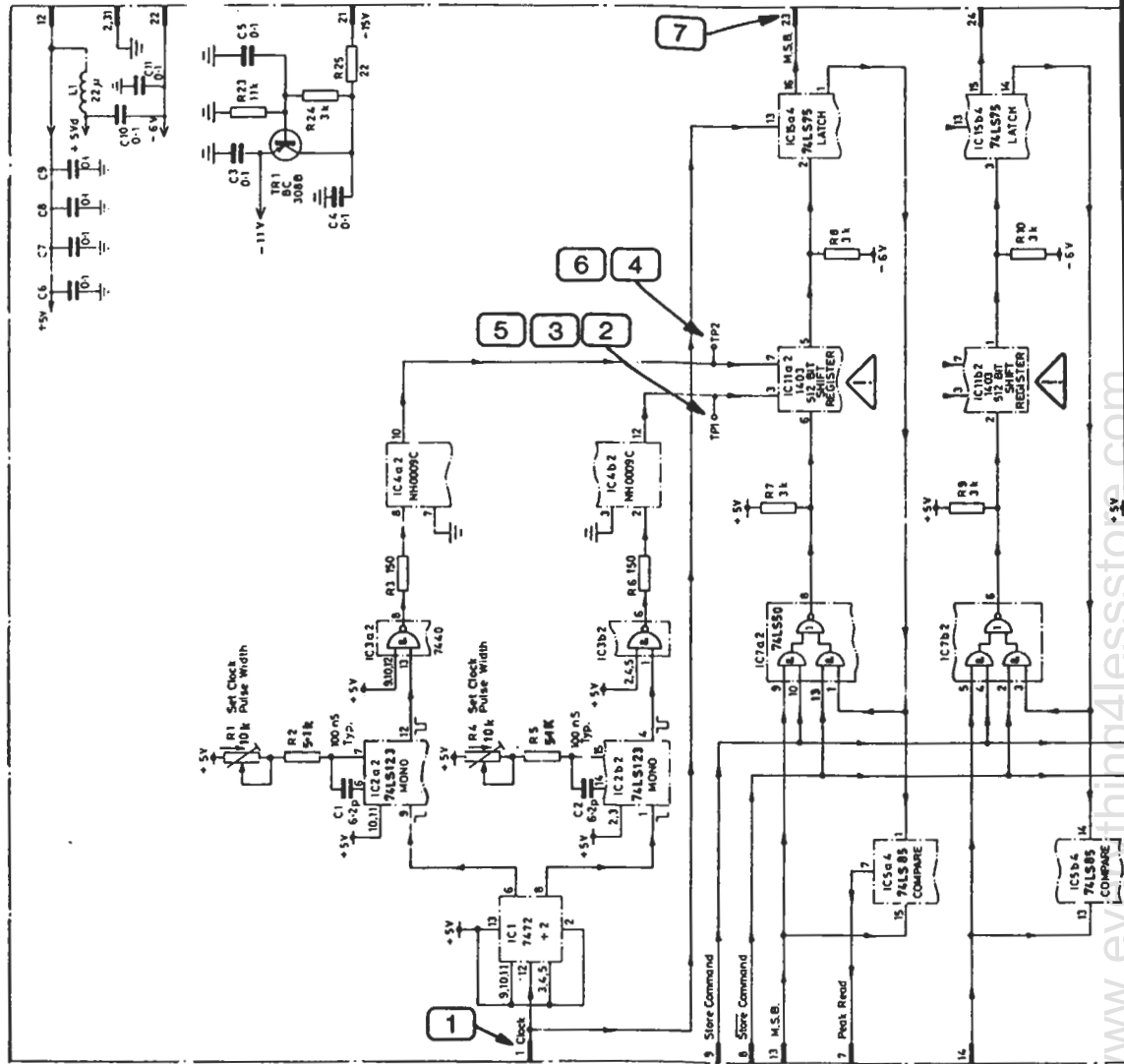
FILTER BANDWIDTH : NORMAL

VERTICAL SCALE and RANGE : 0 dBm 10 dB/DIV

For (7), connect the STANDARD 10 MHz OUTPUT to the INPUT. Adjust the REFERENCE FREQUENCY so that the 10 MHz display is at the centre of the CATHODE RAY TUBE.

Oscilloscope triggering - (7) from pin 18 on AE3 (d. c. negative).

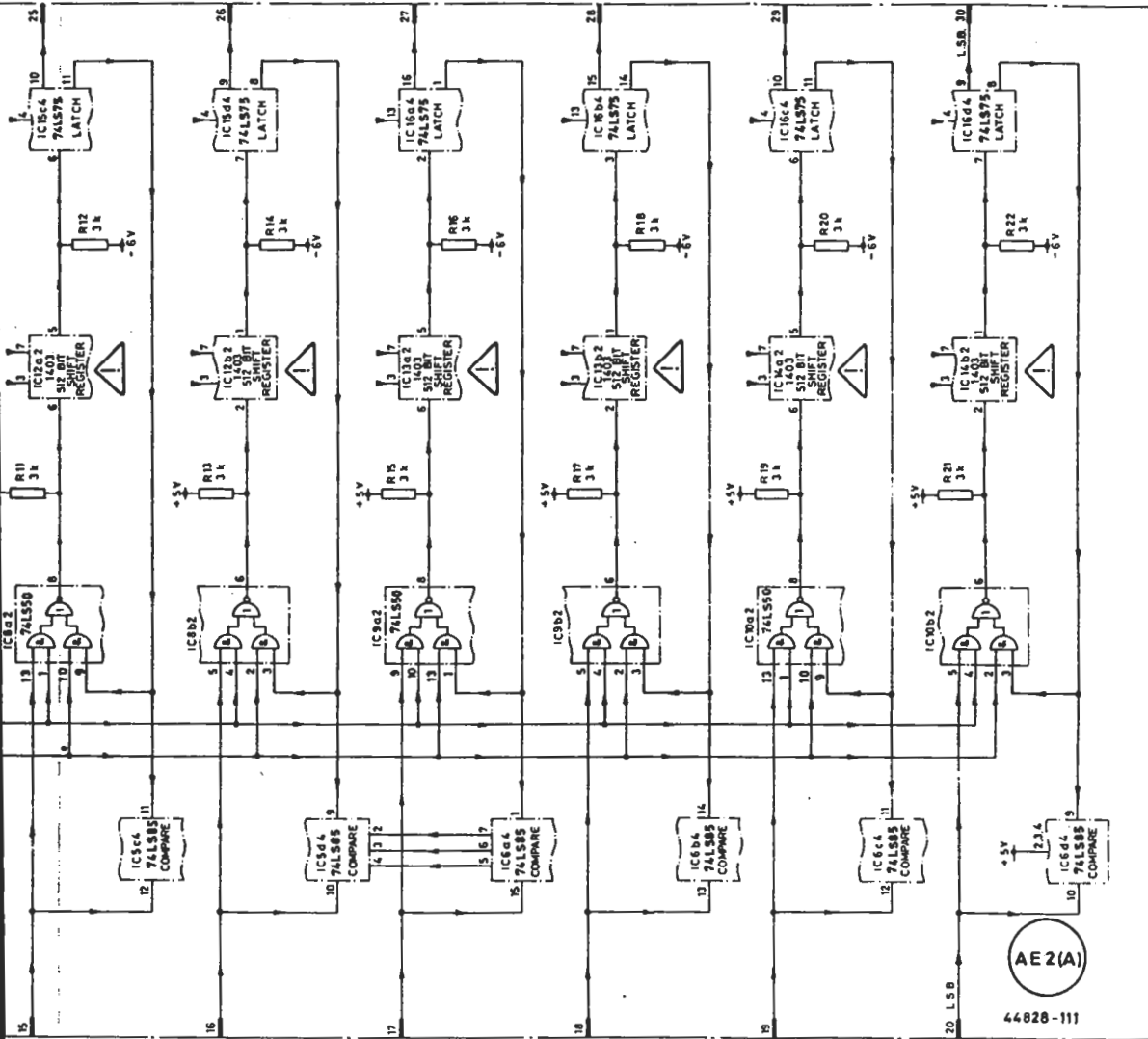




* Note...
CONNECTIONS FOR ALTERNATIVE
PACKAGING OF IC11 TO 14 INCLUSIVE.

METAL CAN (SHOWN ABOVE)		PLASTIC DIL
PIN 1	"	PIN 5
" 2	"	" 6
" 3	"	" 7
" 4	"	" 8
" 5	"	" 1
" 6	"	" 2
" 7	"	" 3
" 8	"	" 4

Drg. No. Z44828-111L ISSUE 4



M.I. CONNECTIONS
 7,8,9 & 10 +5V to PIN 14, E to PIN 7,
 & 16 +5V to PIN 7, E to PIN 12,
 5, & 6 +5V to PIN 16, 0V to PIN 8
 2, 13, & 14 +5V to PIN 4, -6V to PIN 8
 +5V to PIN 11 -11V to PIN 5.

**CAUTION - THE CASES OF ICs 11, 12, 13, & 14 ARE INTERNALLY CONNECTED
 SHORTING THE CASE MAY DESTROY THE DEVICE**

This symbol indicates Static Sensitive Component.

Fig. 7.20 Shift register store AE2

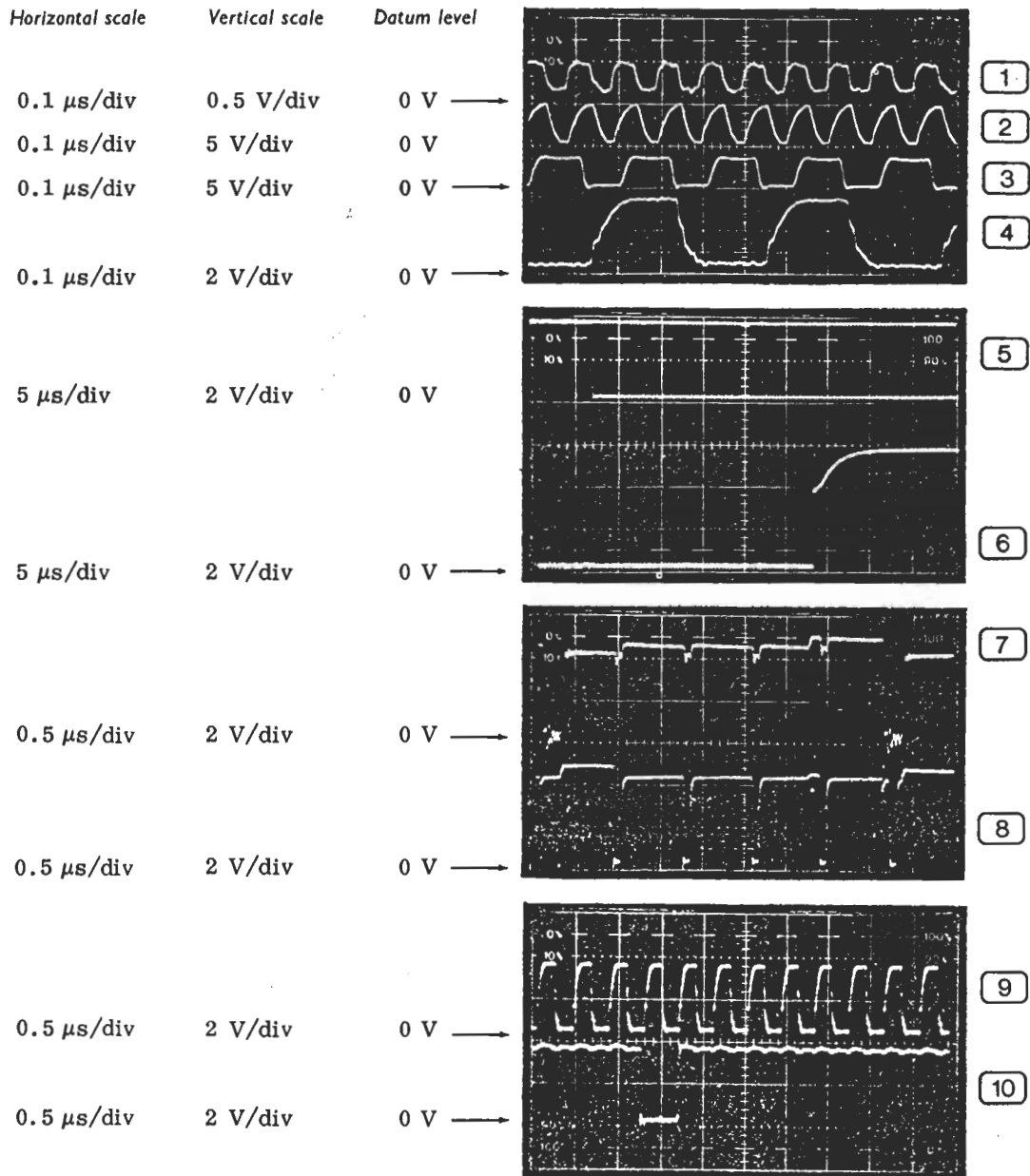
Waveforms for AE3

TF 2370 controls - SWEEP MODE : (1) to (8) AUTO
 (9) to (15) SINGLE
 HORIZONTAL SCALE and RANGE : 10 MHz/DIV
 FILTER BANDWIDTH : WIDE
 VERTICAL SCALE and RANGE : 0 dBm 10 dB/DIV
 STORE and DISPLAY : HIGH DEFN
 VERTICAL GRATICULE SHIFT : CAL

Oscilloscope triggering - (1) to (3) from pin 1 on AE2 (a.c. negative)
 (5) and (6) from TP4 (a.c. positive)
 (7) and (8) from TP6 (a.c. negative)
 (13) to (15) from pin 13 (a.c. positive)

For (10) and (11), adjust the oscilloscope delay as necessary.

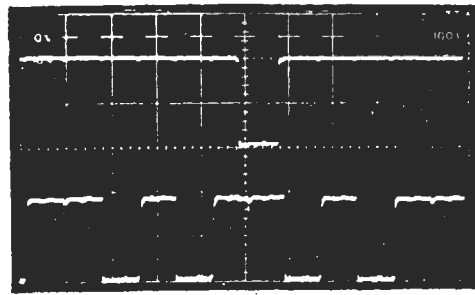
For (13) to (15), adjust the oscilloscope delay so that a pulse of (13) coincides with a falling edge of (14) to give a falling edge on (15) as shown.



0.5 μ s/div

2 V/div

0 V →

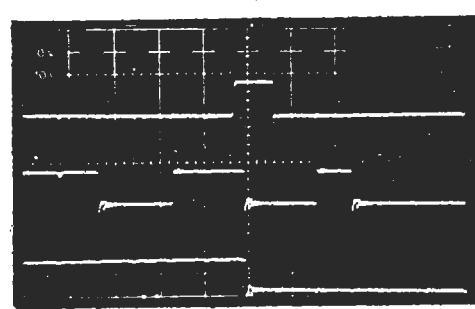


11

0.5 μ s/div

2 V/div

0 V →

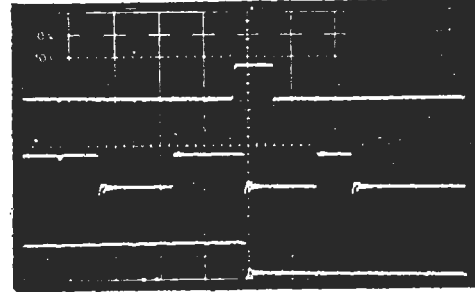


12

0.5 μ s/div

5 V/div

0 V →



13

0.5 μ s/div

5 V/div

0 V →

14

0.5 μ s/div

5 V/div

0 V →

15

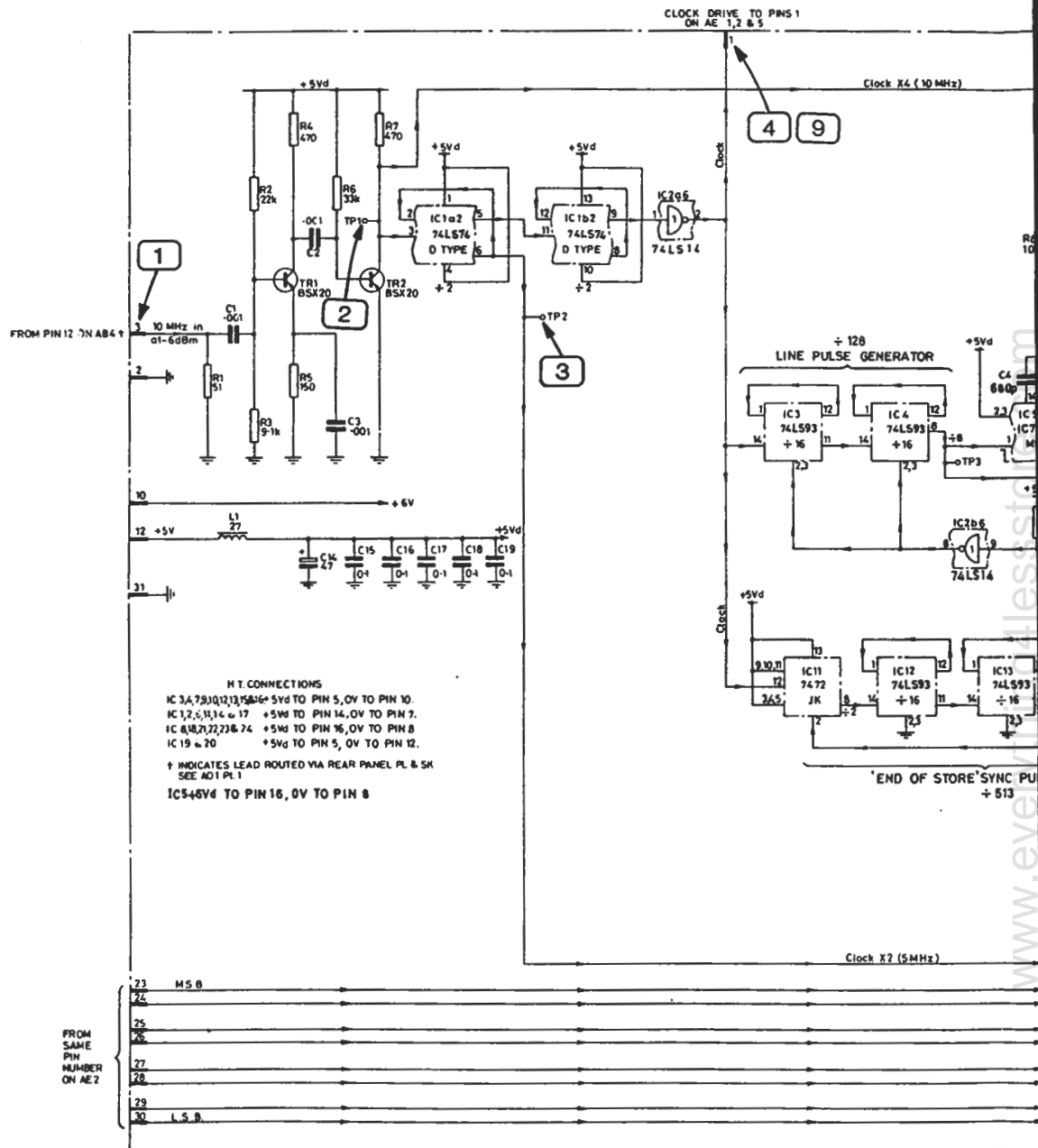
11

12

13

14

15



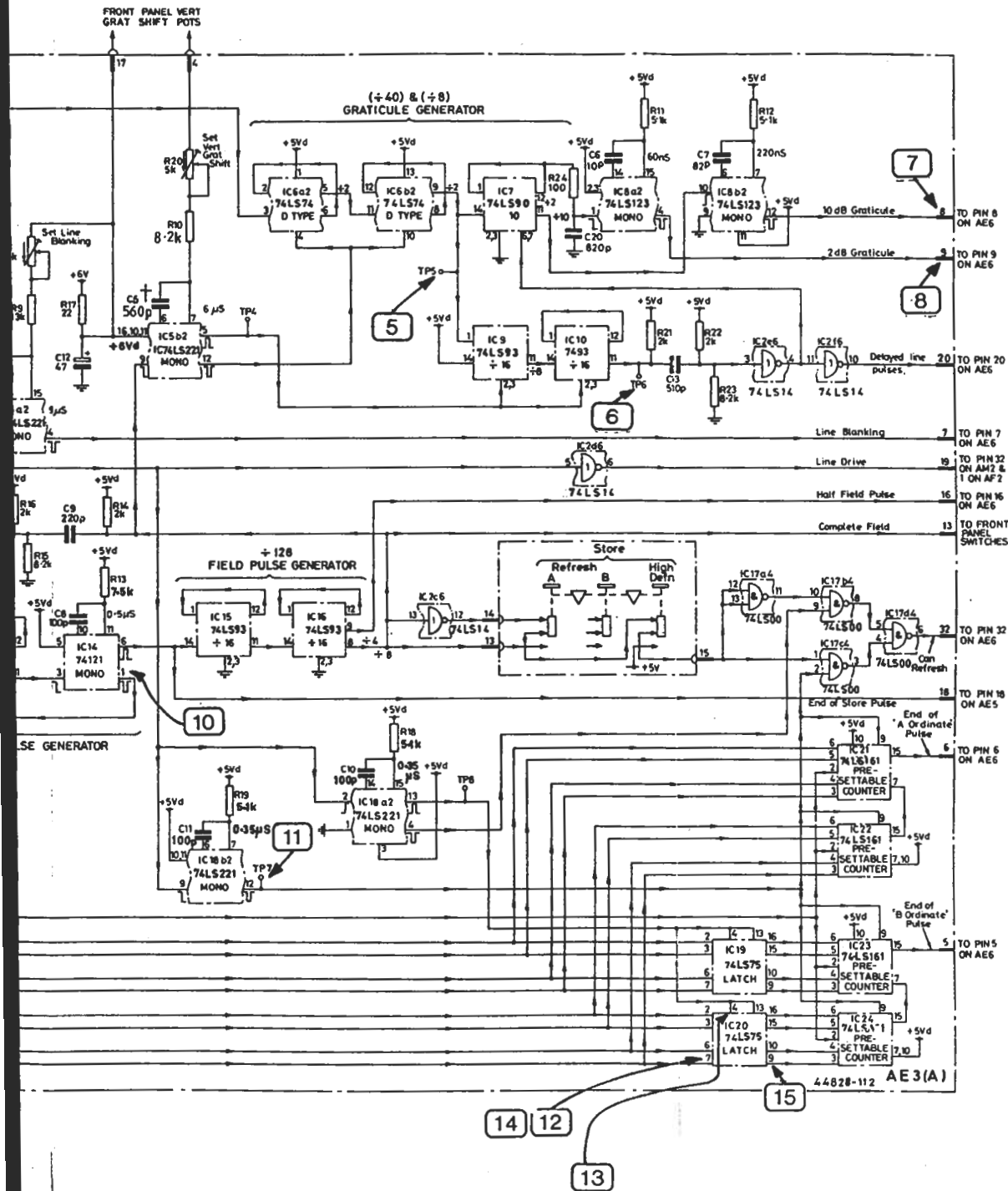
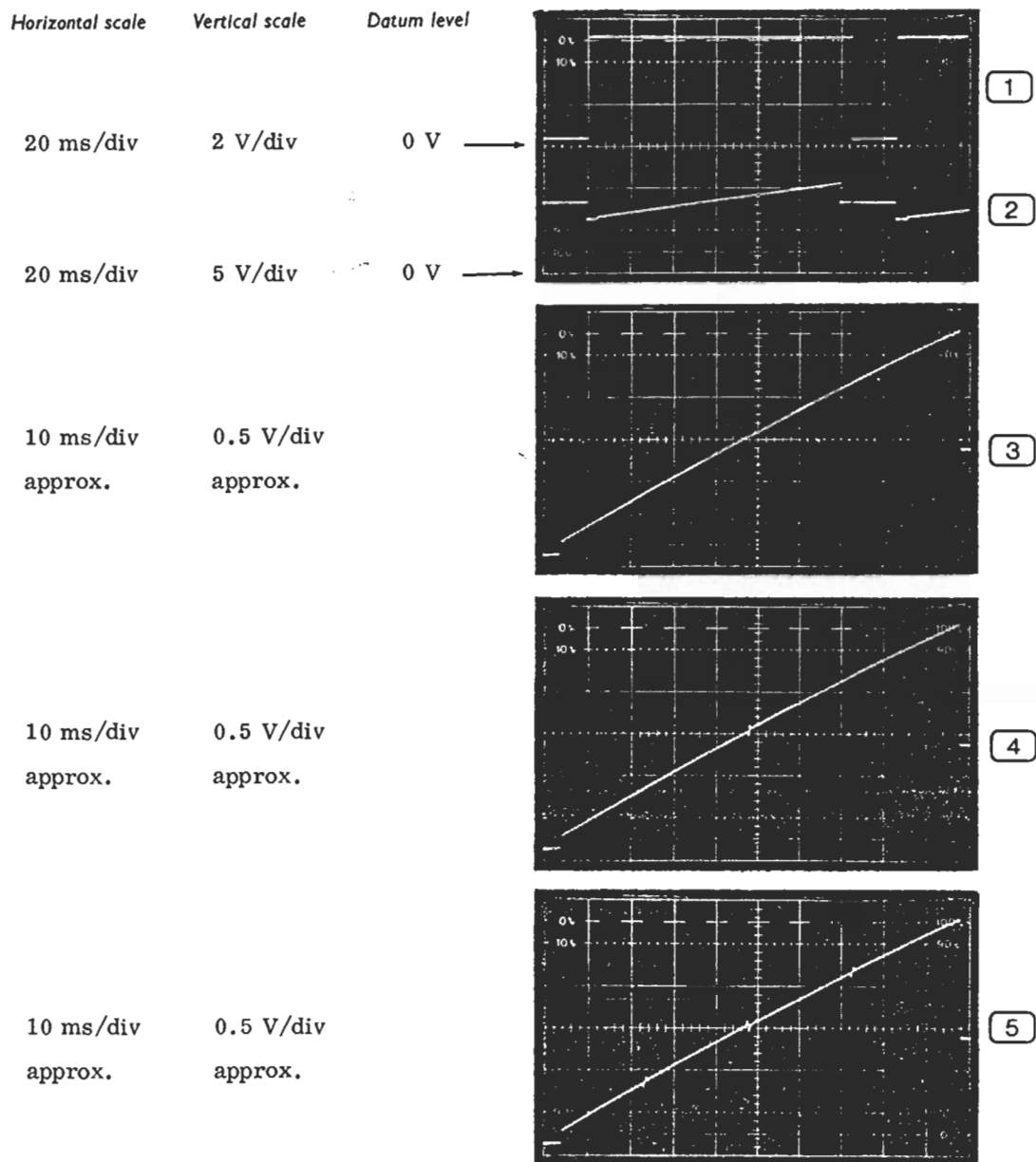


Fig. 7.21 Read-out waveforms generator AE3

Waveforms for AE4

TF 2370 controls - SWEEP MODE : AUTO
 HORIZONTAL SCALE and RANGE : 10 kHz/DIV
 FILTER BANDWIDTH : WIDE
 STORE and DISPLAY : HIGH DEFN

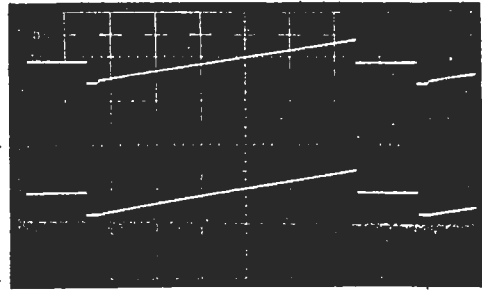
For (3) to (5), adjust the oscilloscope to give ramps between the corners of the tube.
 (3) is the required waveform. (4) is obtained when R31 is incorrectly set. (5) is
 obtained when R27 is incorrectly set.



20 ms/div

5 V/div

0 V →



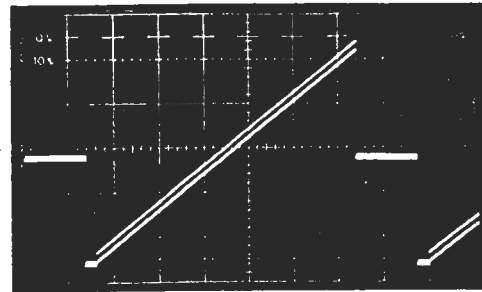
6

7

20 ms/div

5 V/div

0 V →



8

9

20 ms/div

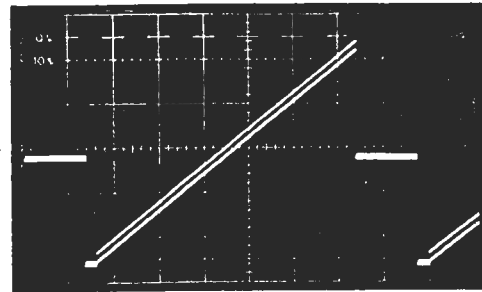
1 V/div

10 V } →

20 ms/div

1 V/div

10 V } →

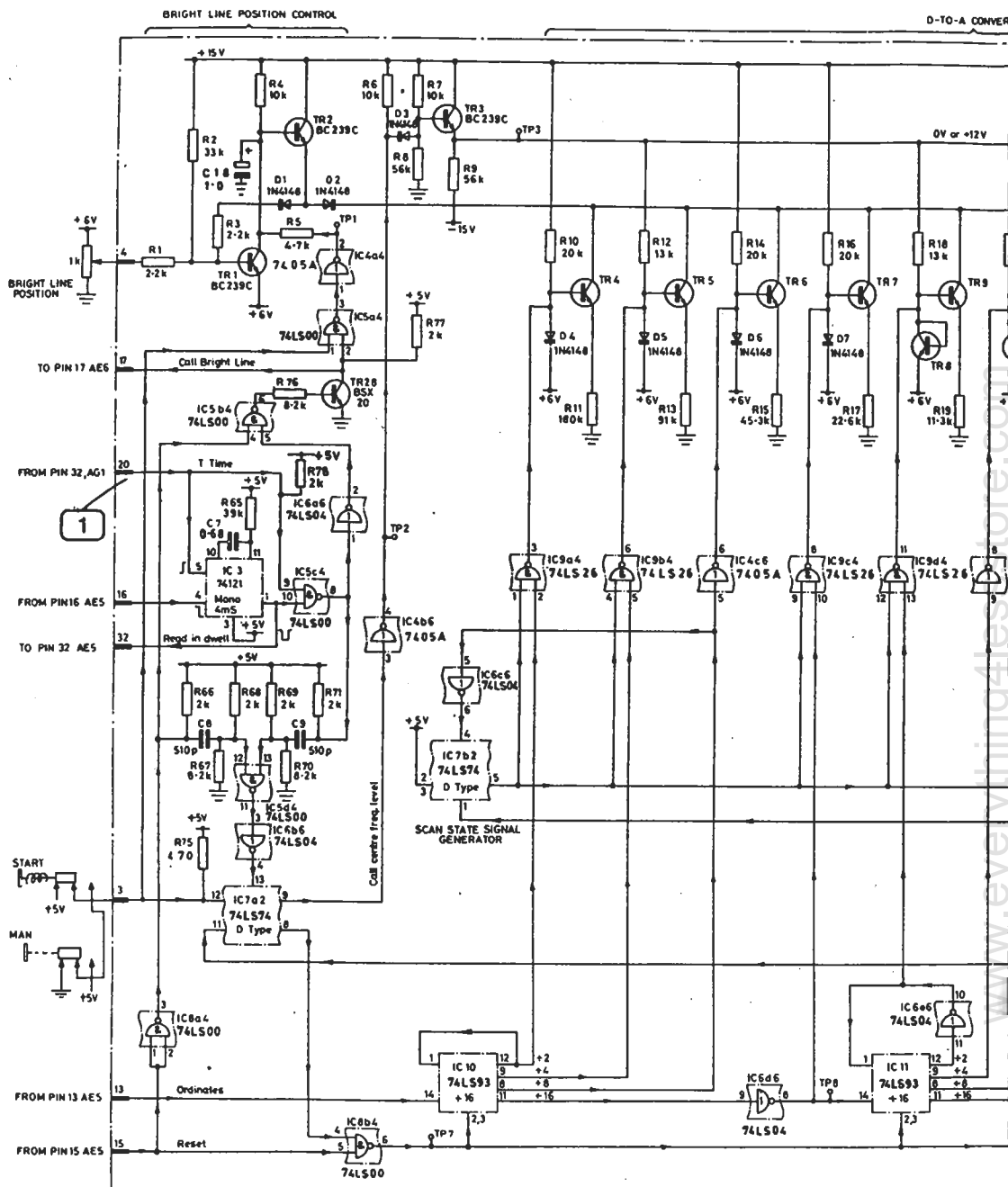


6

7

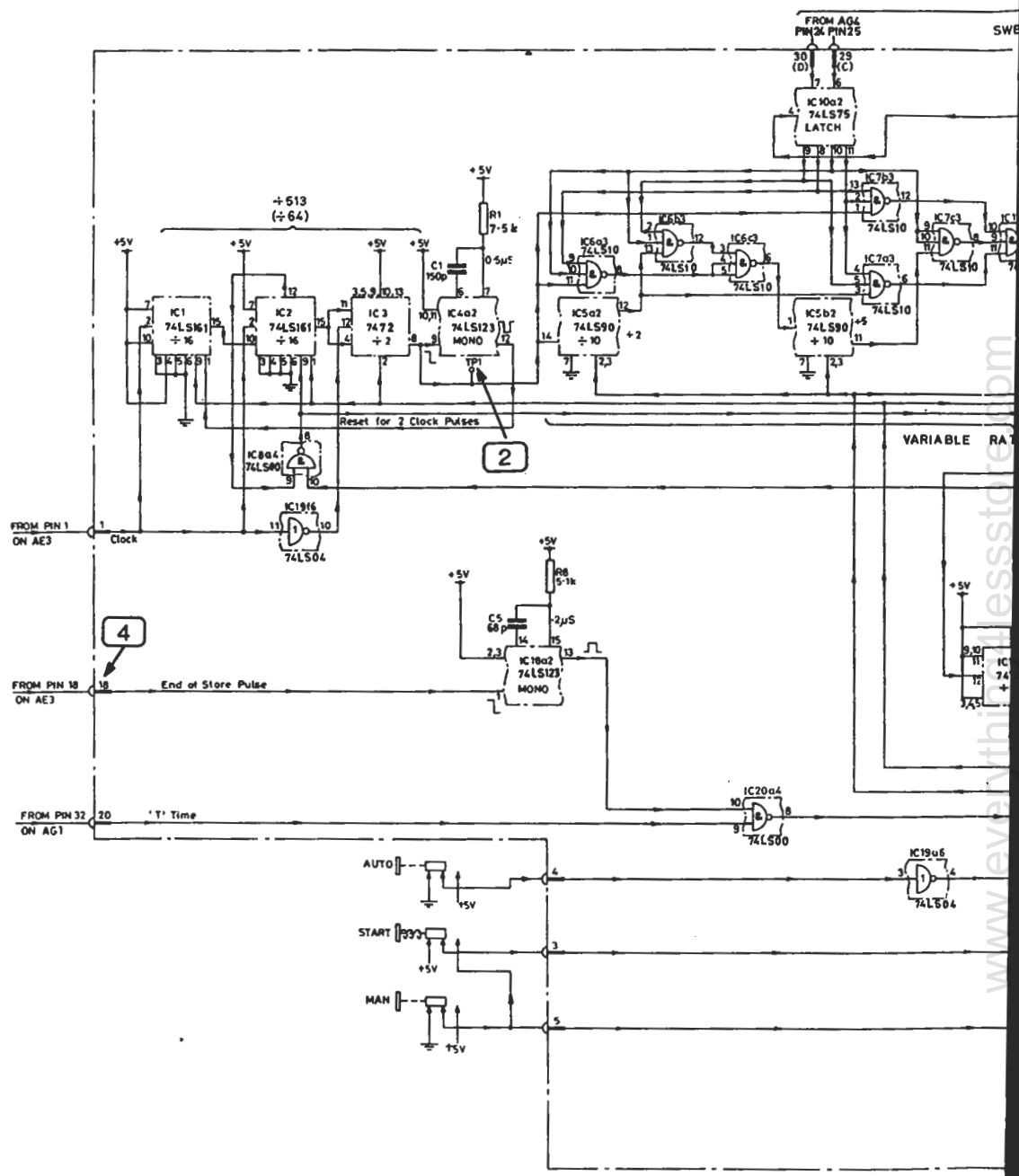
8

9



Drq. No. Z 44828-113F ISSUE 6

COUNTER



- 1
- 2
- 3
- 4

DRG. No. Z44828 - 114G ISSUE 4

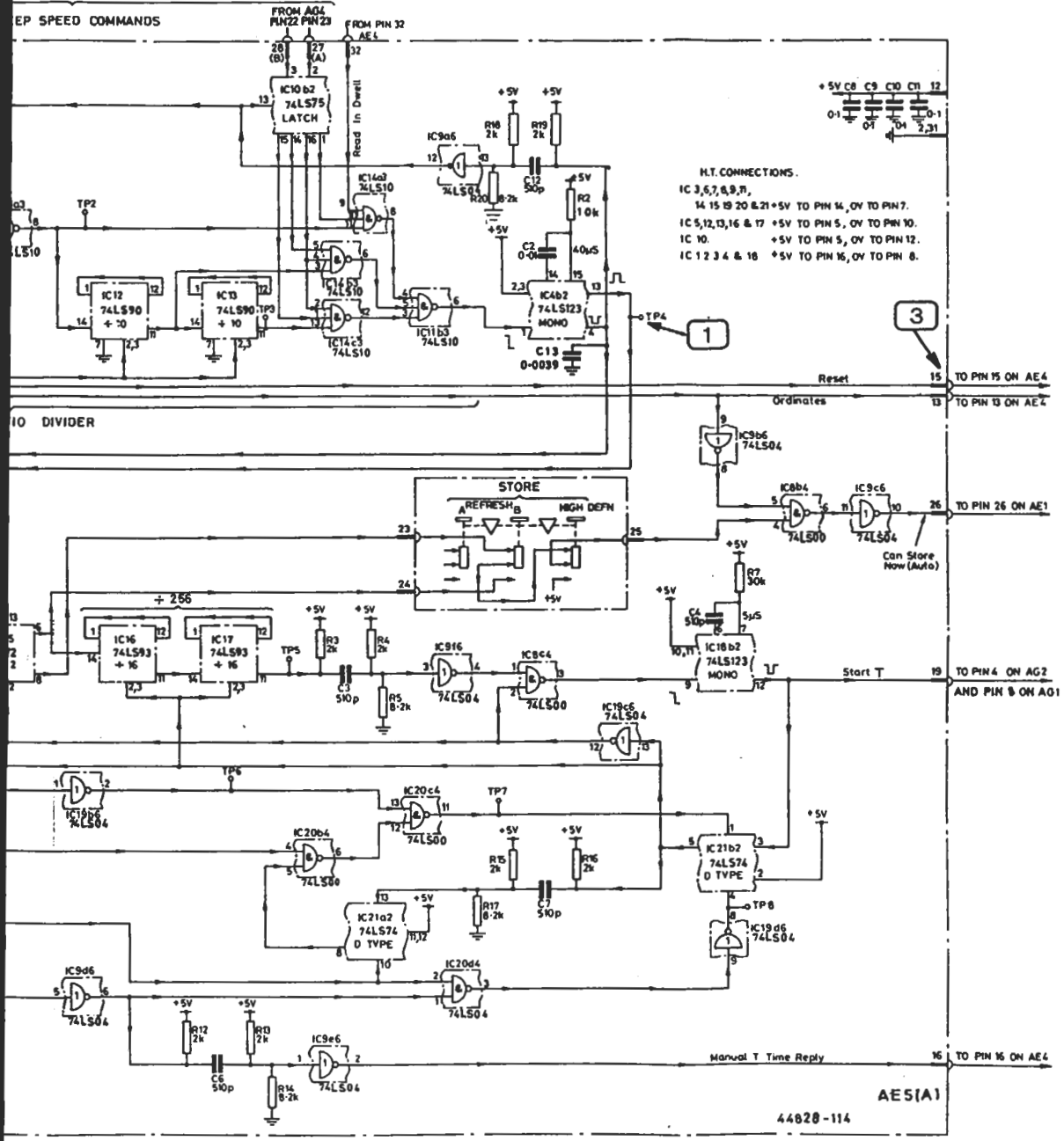


Fig. 7.23 Read-in sequence controller AES

Waveforms for AE6

TF 2370 controls - SWEEP MODE : (1) to (6), (9) and (10) AUTO
(7) and (8) SINGLE

HORIZONTAL SCALE and RANGE : (9) and (10) 10 kHz/DIV

FILTER BANDWIDTH : (9) and (10) WIDE

STORE and DISPLAY : HIGH DEFN

VERTICAL GRATICULE SHIFT : CAL

HORIZONTAL GRATICULE SHIFT : CAL

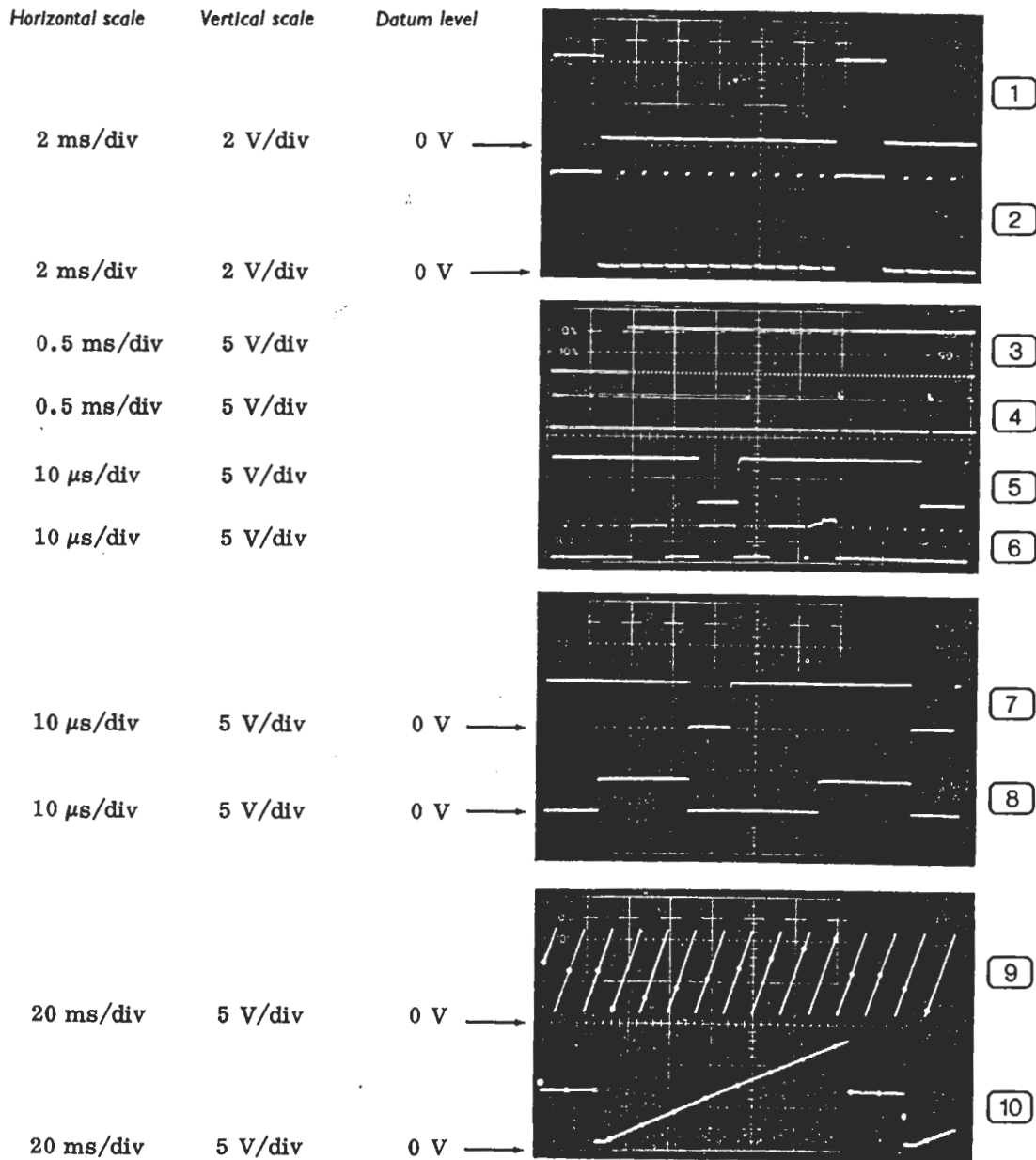
HORIZONTAL GRATICULE GAIN : CAL

For (7) and (8), connect the TRACKING GENERATOR OUTPUT to the INPUT.

Oscilloscope triggering - (3) to (6) from TP8 (a.c. negative).

For (3) to (6), adjust the oscilloscope delay as necessary.

For (9) and (10), set the oscilloscope to 'chop'. Connect TP11 through an a.c. coupling to the intensity modulation input of the oscilloscope.

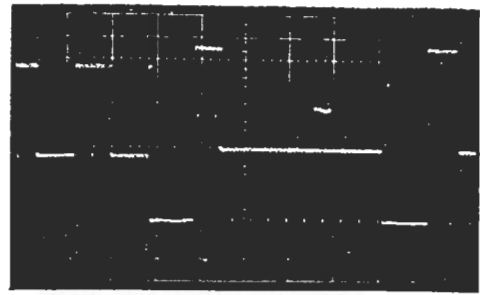


5

10 μ s/div

1 V/div

3 V \rightarrow



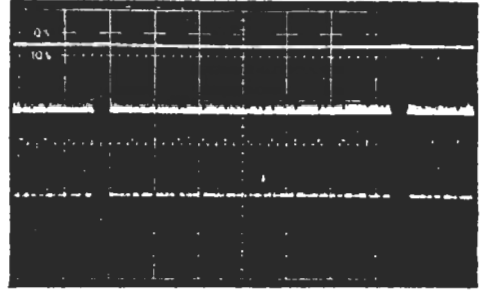
11

6

2 ms/div

10 V/div

70 V \rightarrow



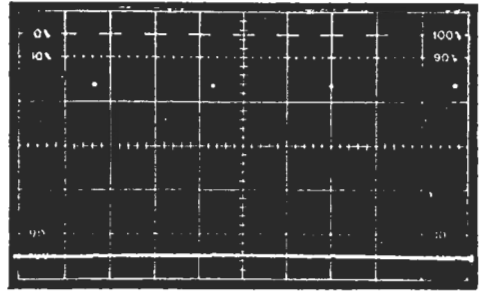
12

7

5 ms/div

1 V/div

0 V \rightarrow



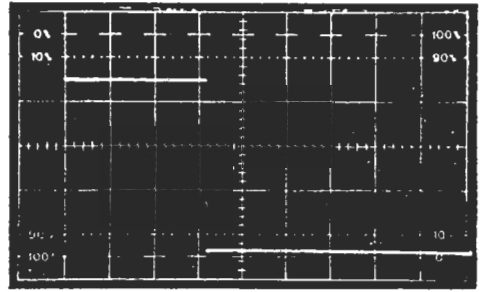
13

8

50 μ s/div

1 V/div

0 V \rightarrow



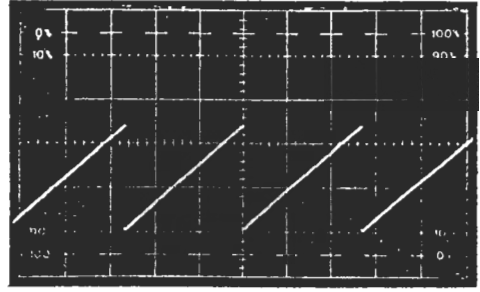
14

9

5 ms/div

5 V/div

0 V



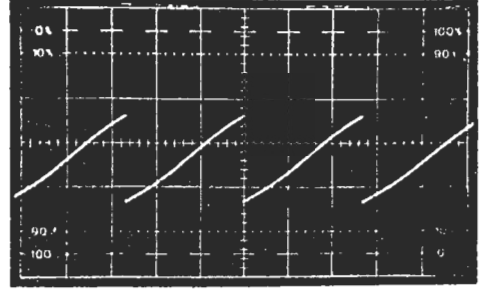
15

10

5 ms/div

5 V/div

0 V \rightarrow



16

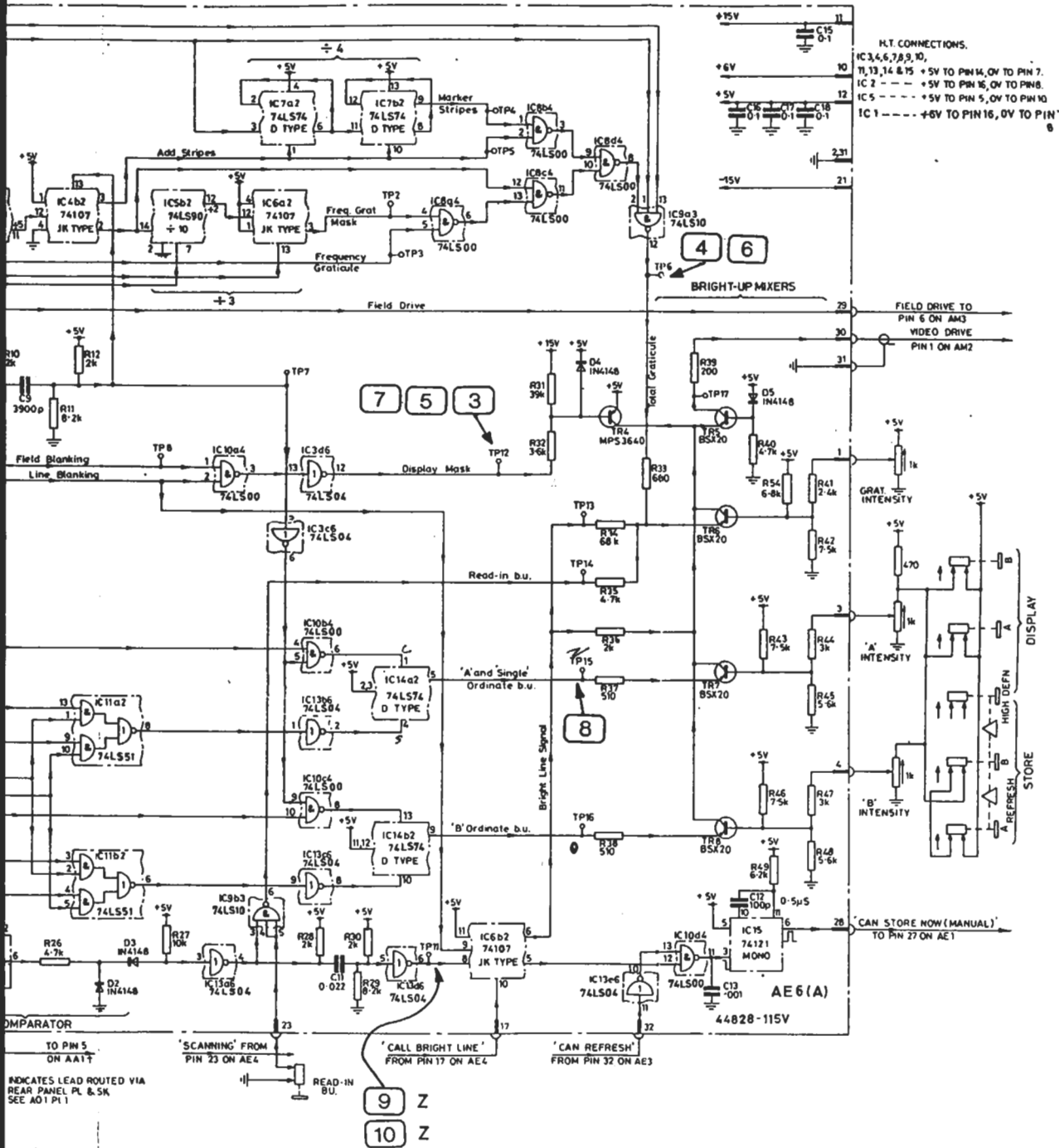
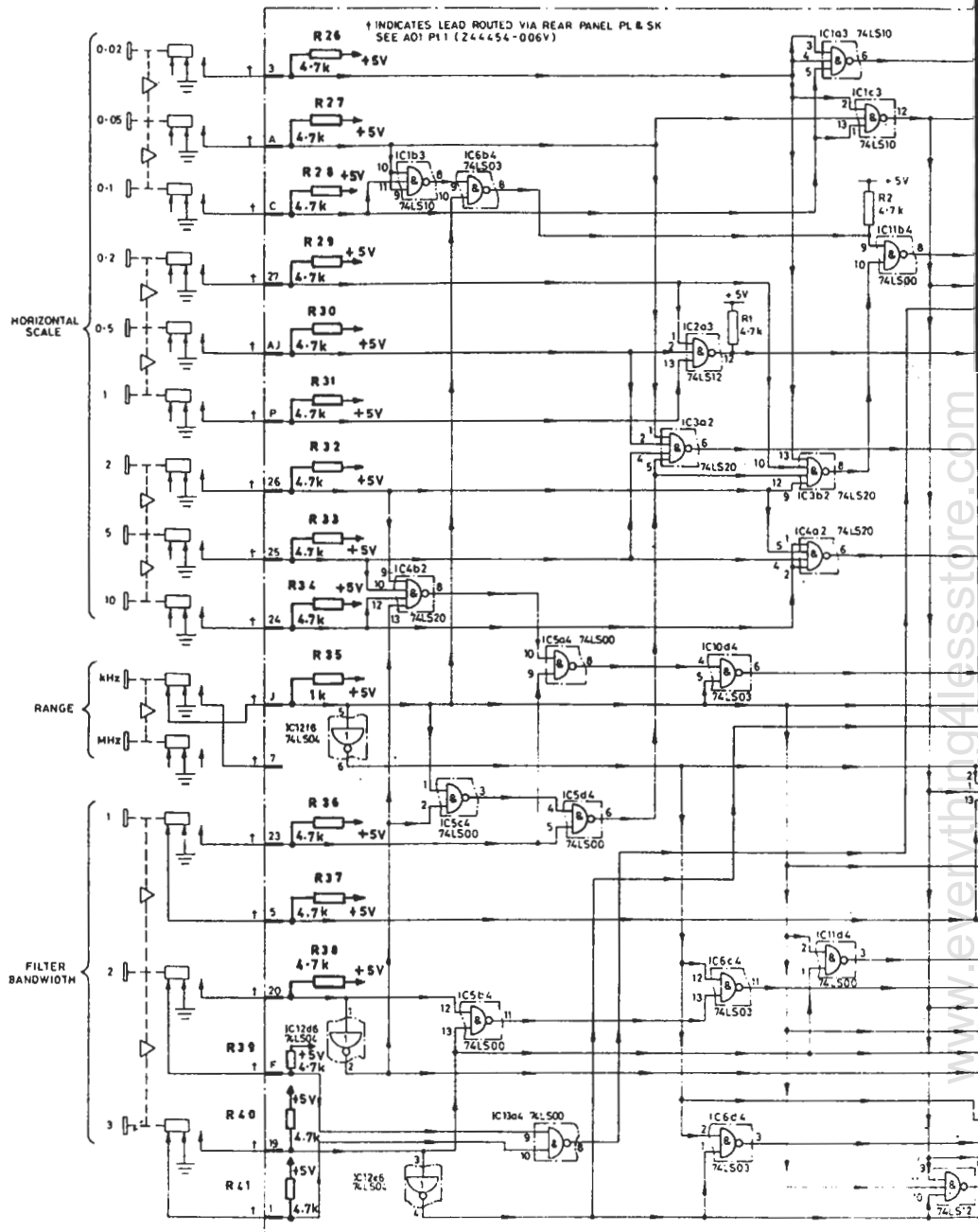


Fig. 7.24 Frequency graticule generator, and bright-up processing AE6



DRG No. Z44828 - 362 ISSUE 1

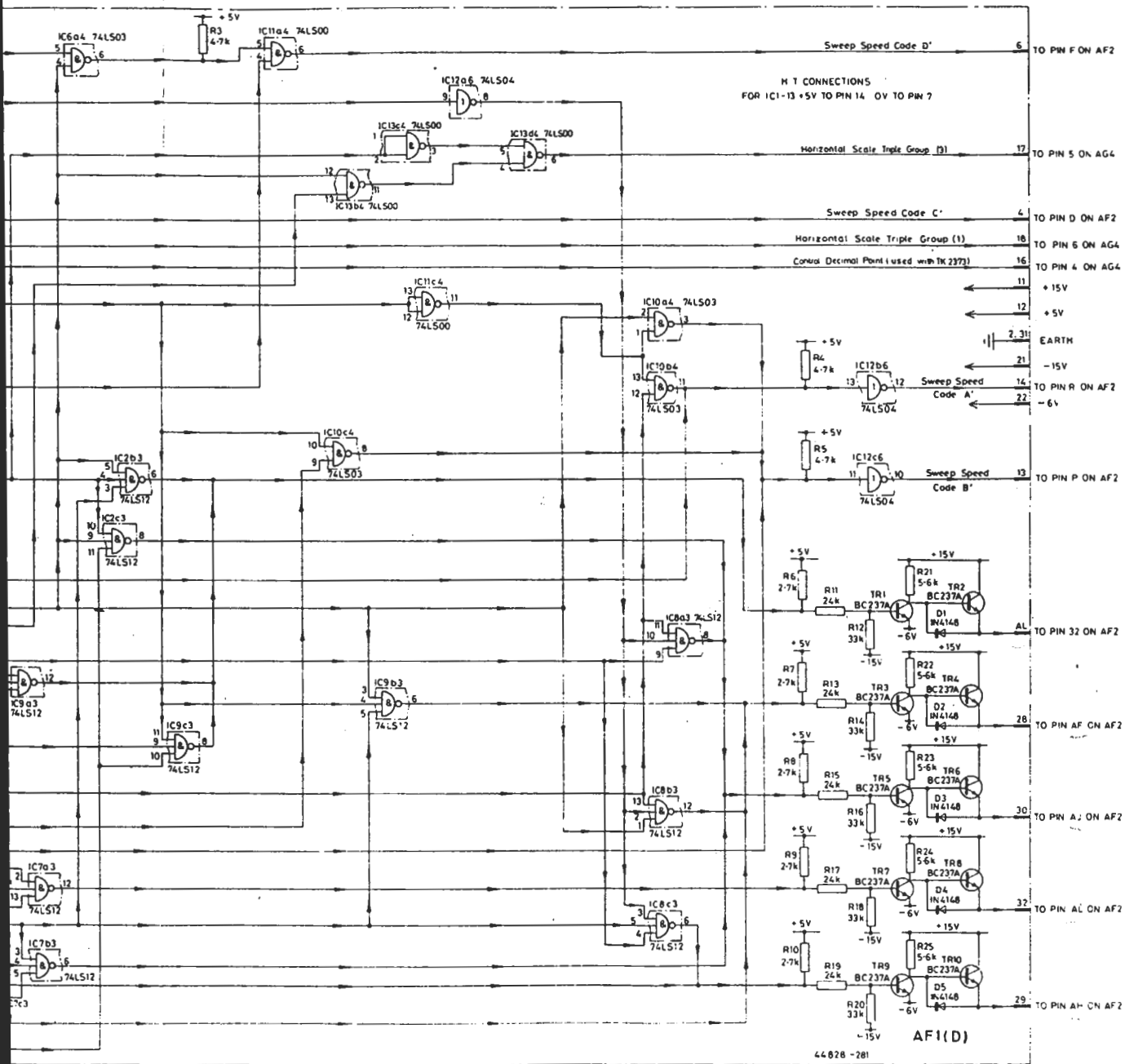
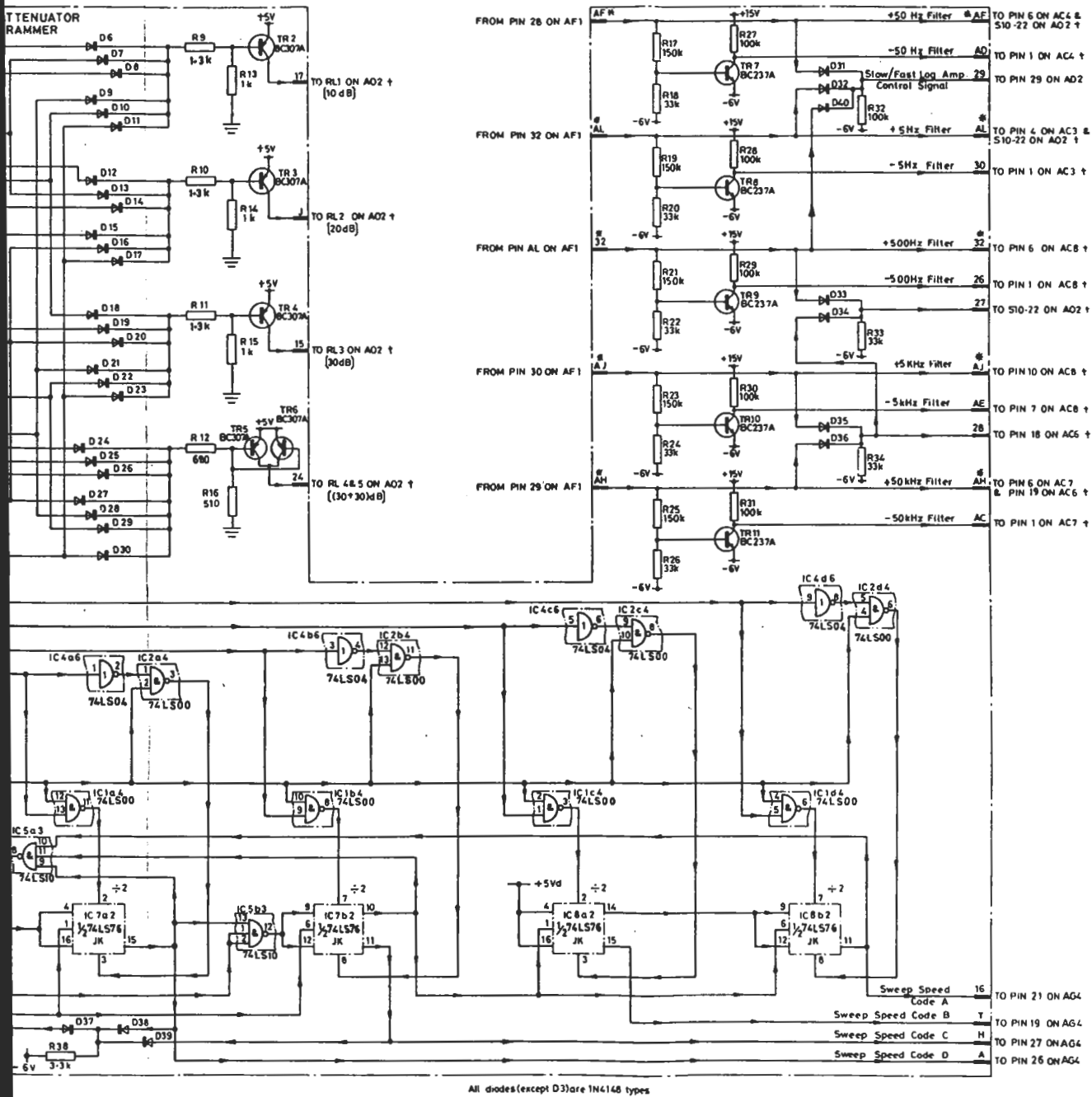


Fig. 7.25 System control logic (1) AF1



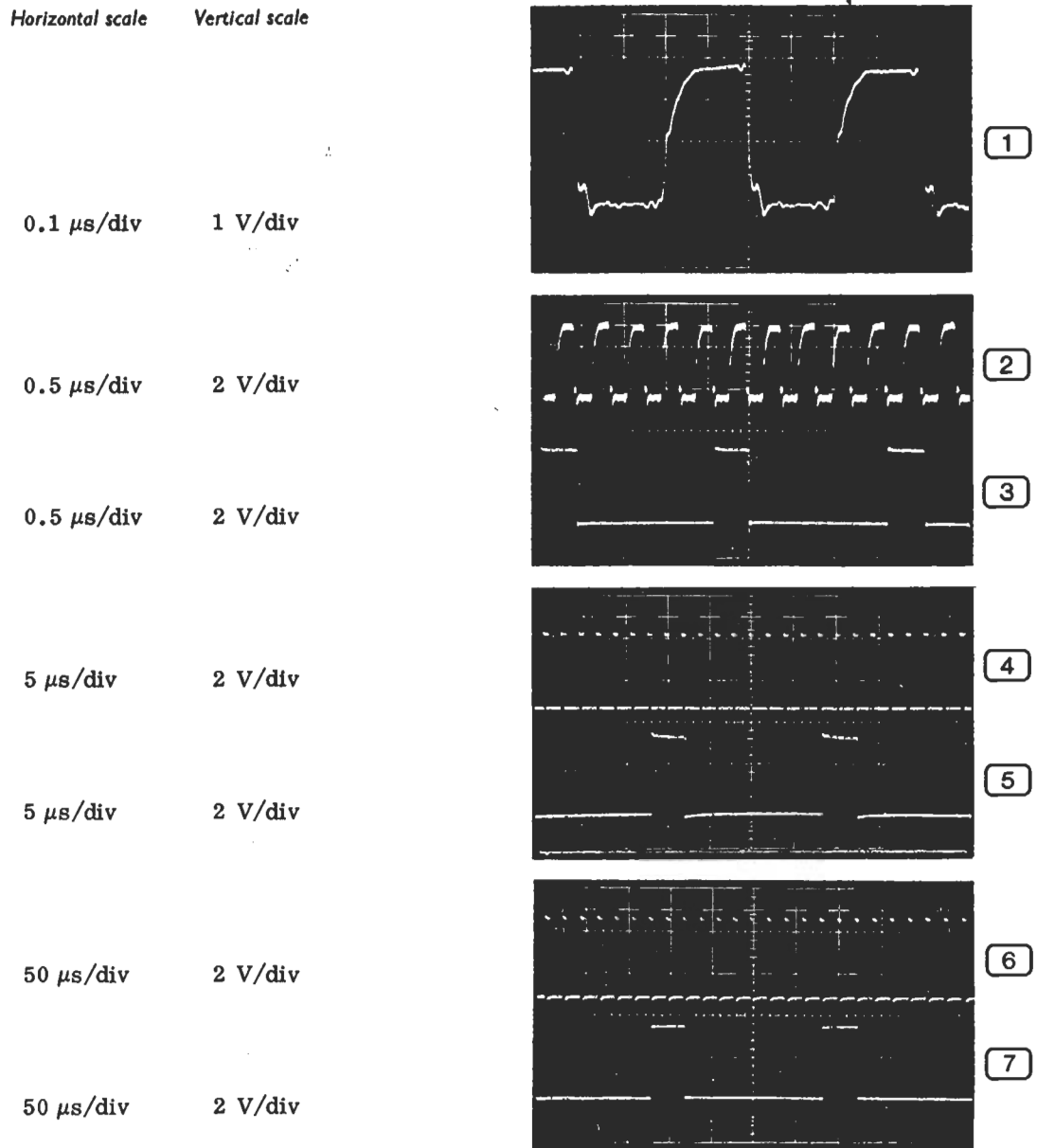
All diodes (except D3) are 1N4148 types

Fig. 7.26 System control logic (2) AF2

Waveforms for AG4

TF 2370 controls - HORIZONTAL SCALE : (26),(27),(32),(33),(38) and (39) .02, .05 or .1
 (30),(31),(36) and (37) .2, .5 or 1
 (24),(25),(28),(29),(34) and (35) 2, 5 or 10
 HORIZONTAL RANGE : (12) to (14),(17) to (19) and (28) to (33) kHz/DIV
 (15),(16),(20) to (27) and (34) to (39) MHz/DIV

Remove board AE5.
 For (1) to (27), also connect a shorting link across R9 on AG4.

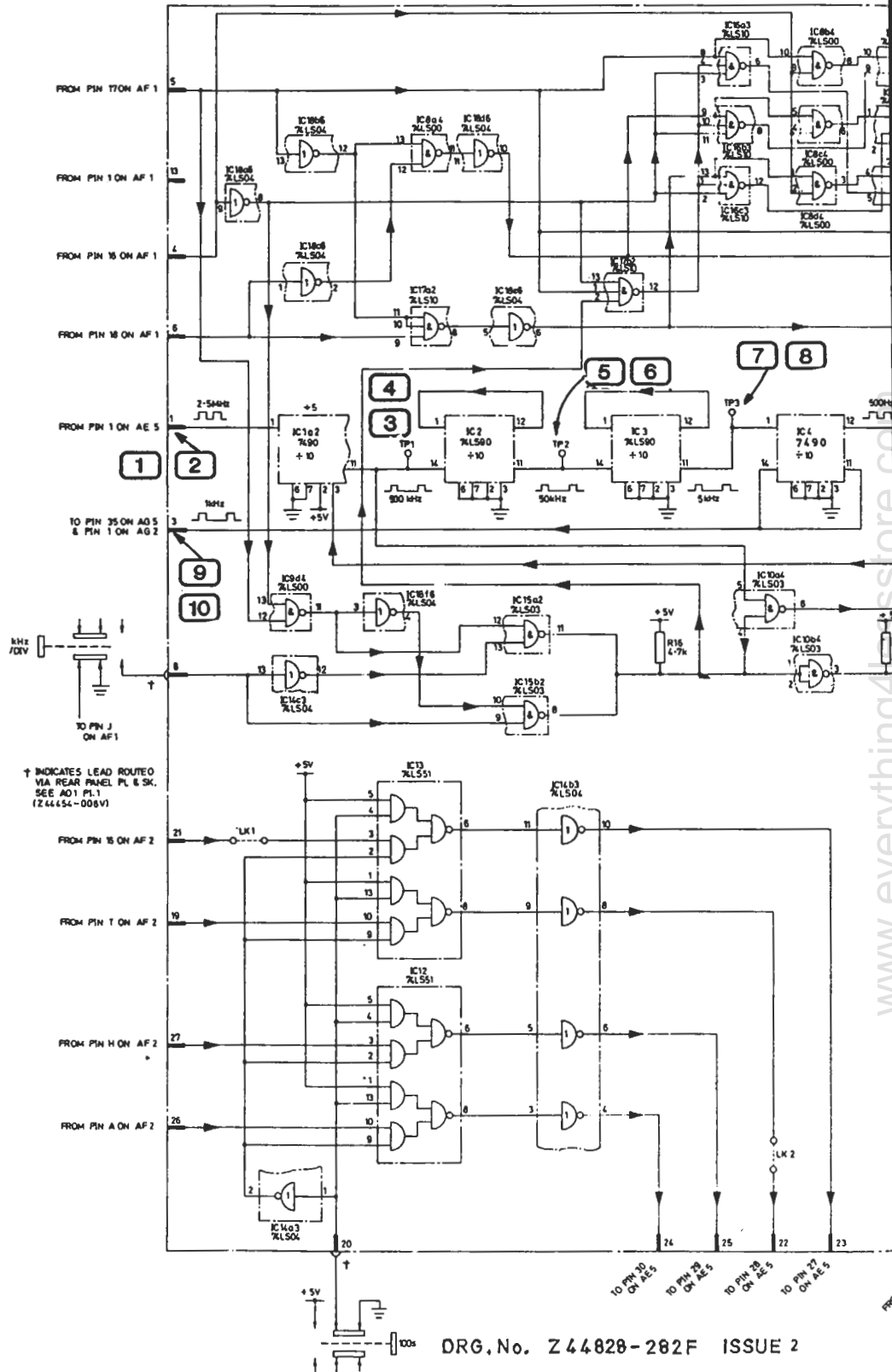


36

37

38

39



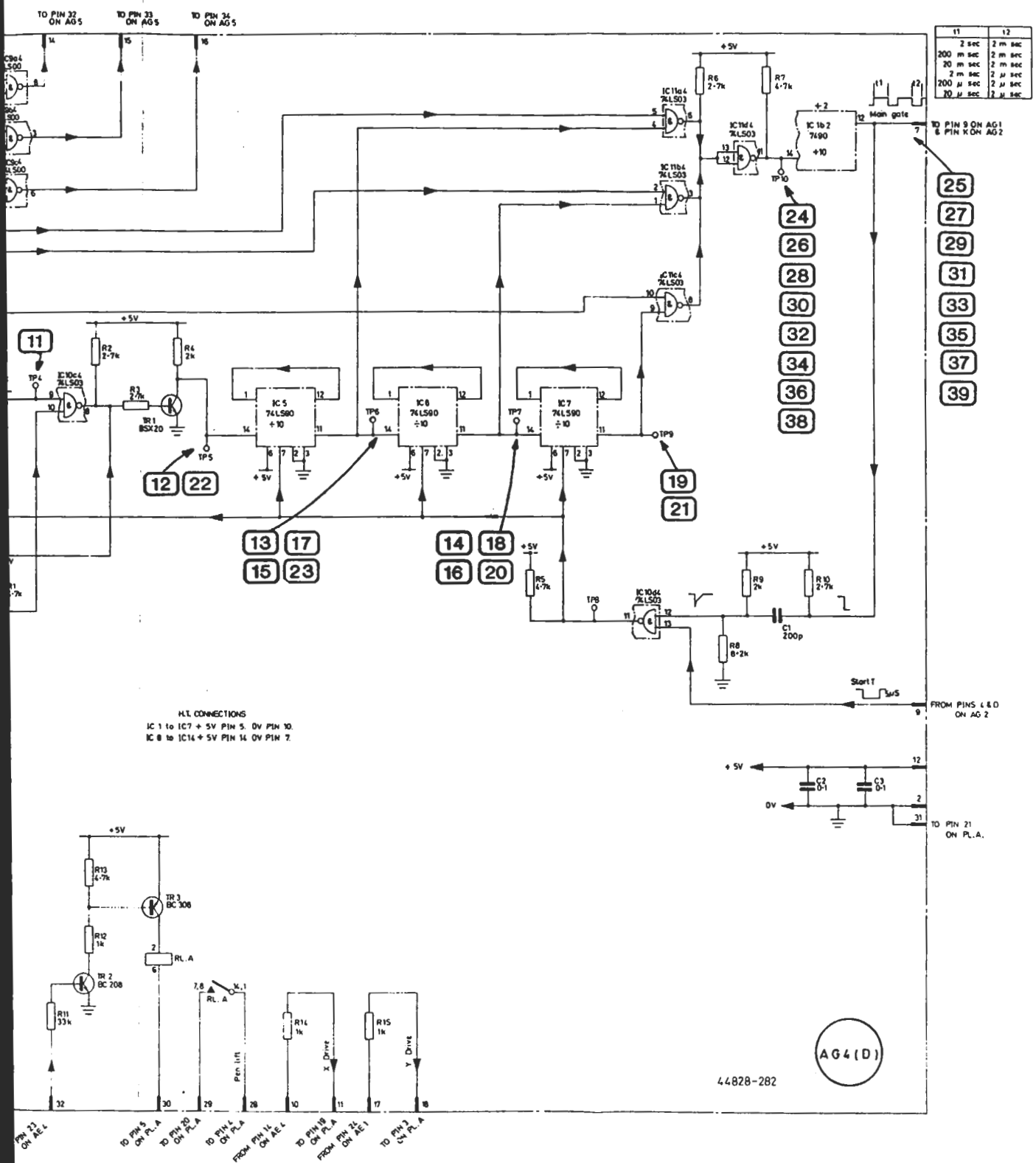
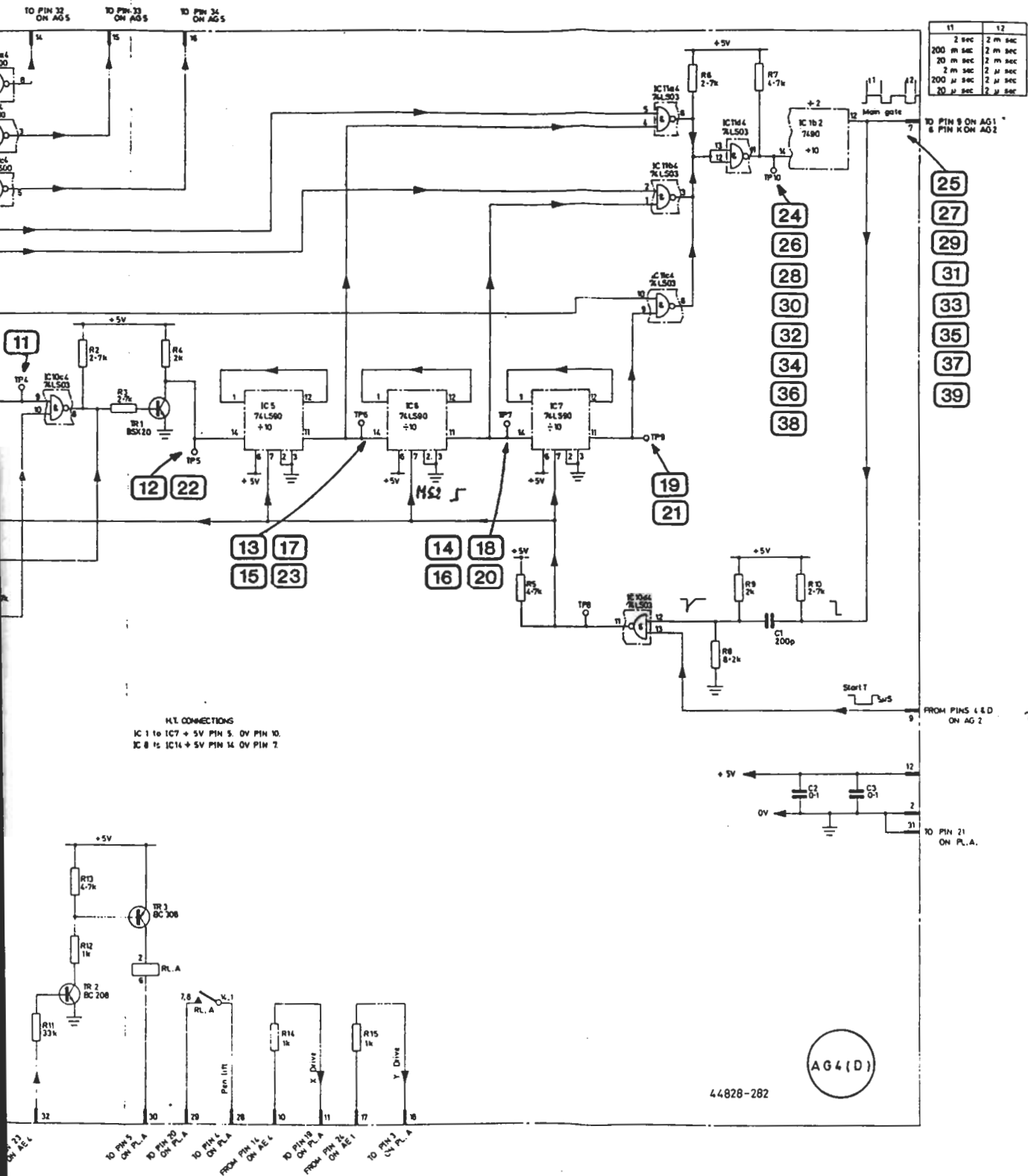


Fig. 7.27 Counter time base and X-Y recorder output AG4

52320-015

18 IC



11	12
2 sec	2 m sec
200 m sec	2 m sec
20 m sec	2 m sec
2 m sec	2 m sec
200 μ sec	2 μ sec
20 μ sec	2 μ sec

W.T. CONNECTIONS
 IC 1 to IC 7 → +5V PIN 5, 0V PIN 10.
 IC 8 to IC 14 → +5V PIN 14, 0V PIN 7.

FROM PINS 1 & 2 ON AG 2 18 AGS

TO PIN 21 ON PL.A.

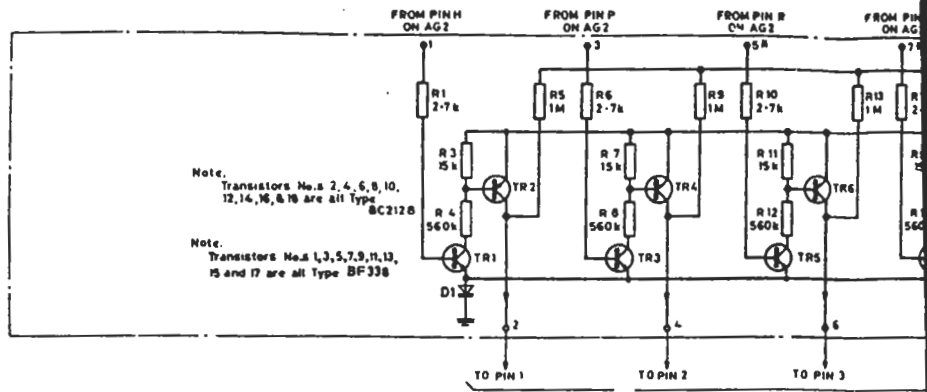
AG4(D)

44828-282

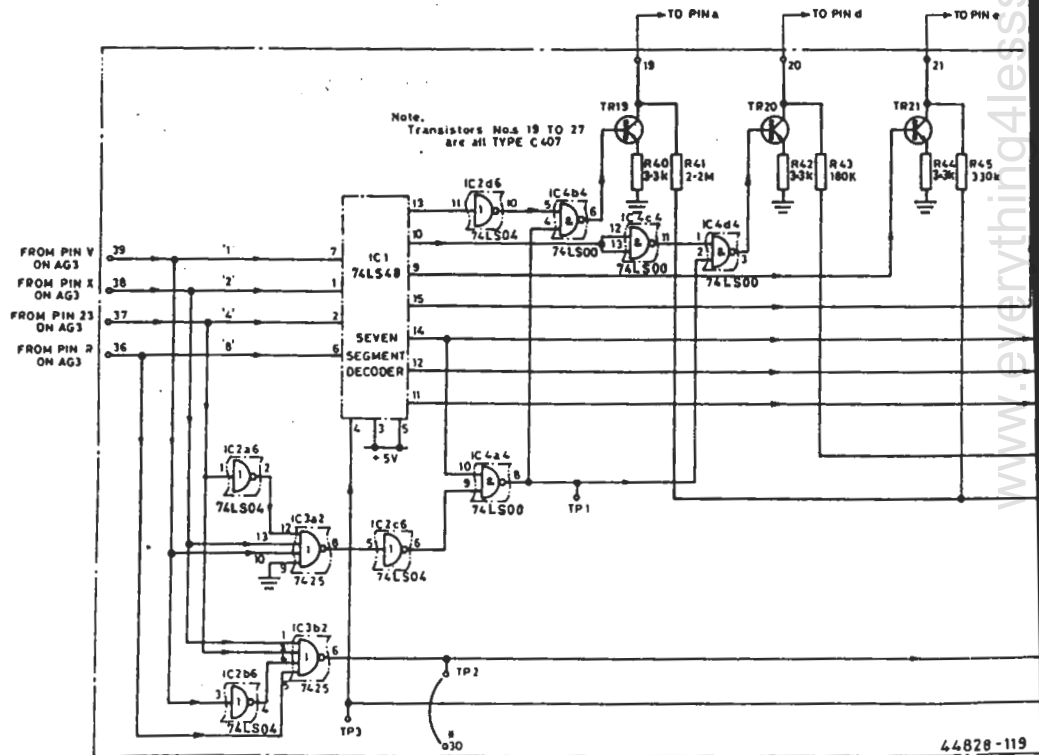
- CP1 41 V140 EFC
- HR1 02 130
- HR2 03 120 Q0
- 04 110 Q3
- 05 100 Q1
- MS1 06 40 Q1
- MS2 02 80 Q2

24LS90

Fig. 7.27 Counter time base and X-Y recorder output AG4

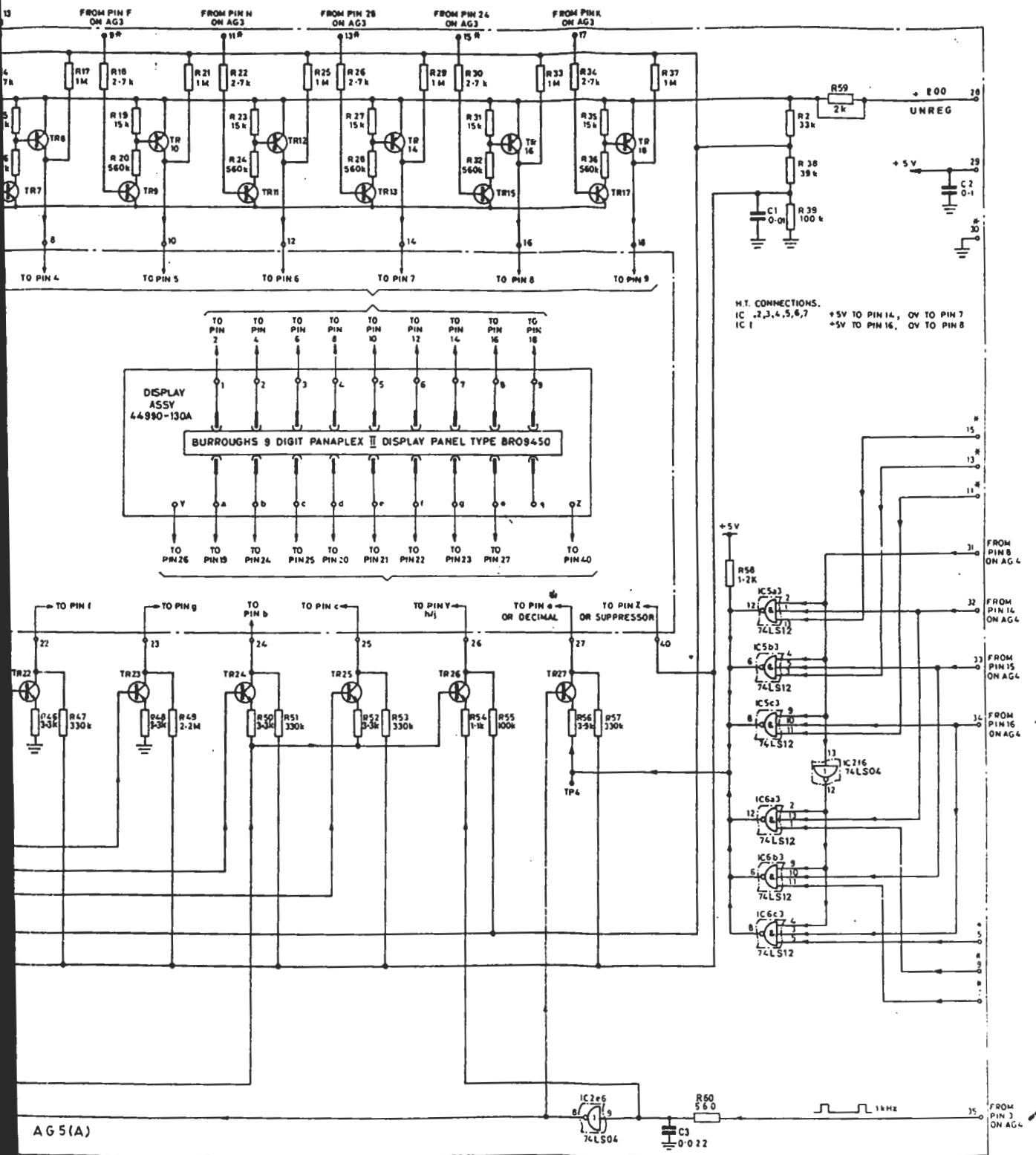


View on front of display of one of the nine digits showing segment arrangement.



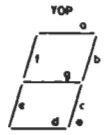
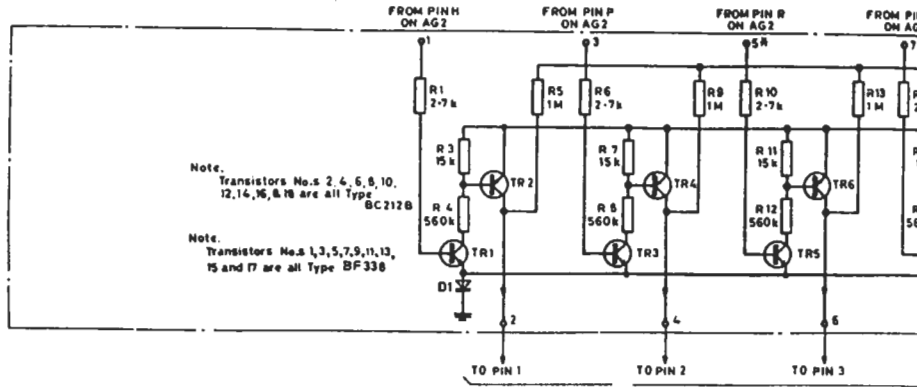
DRG. No. Z44828-119T ISSUE 4

2370(1g)

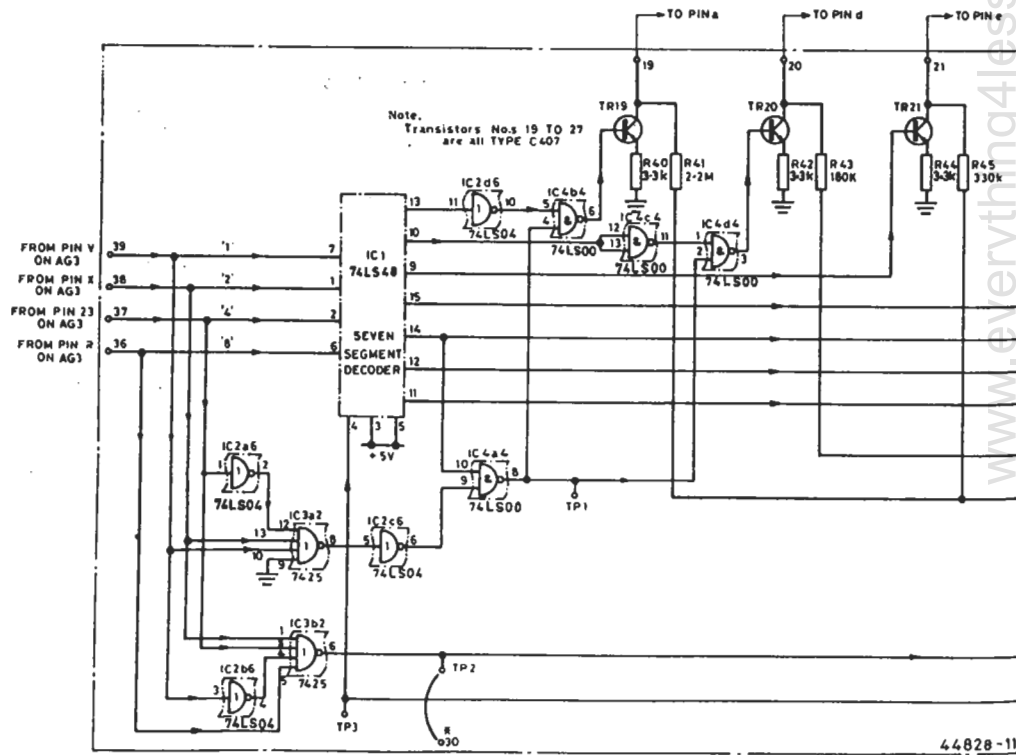


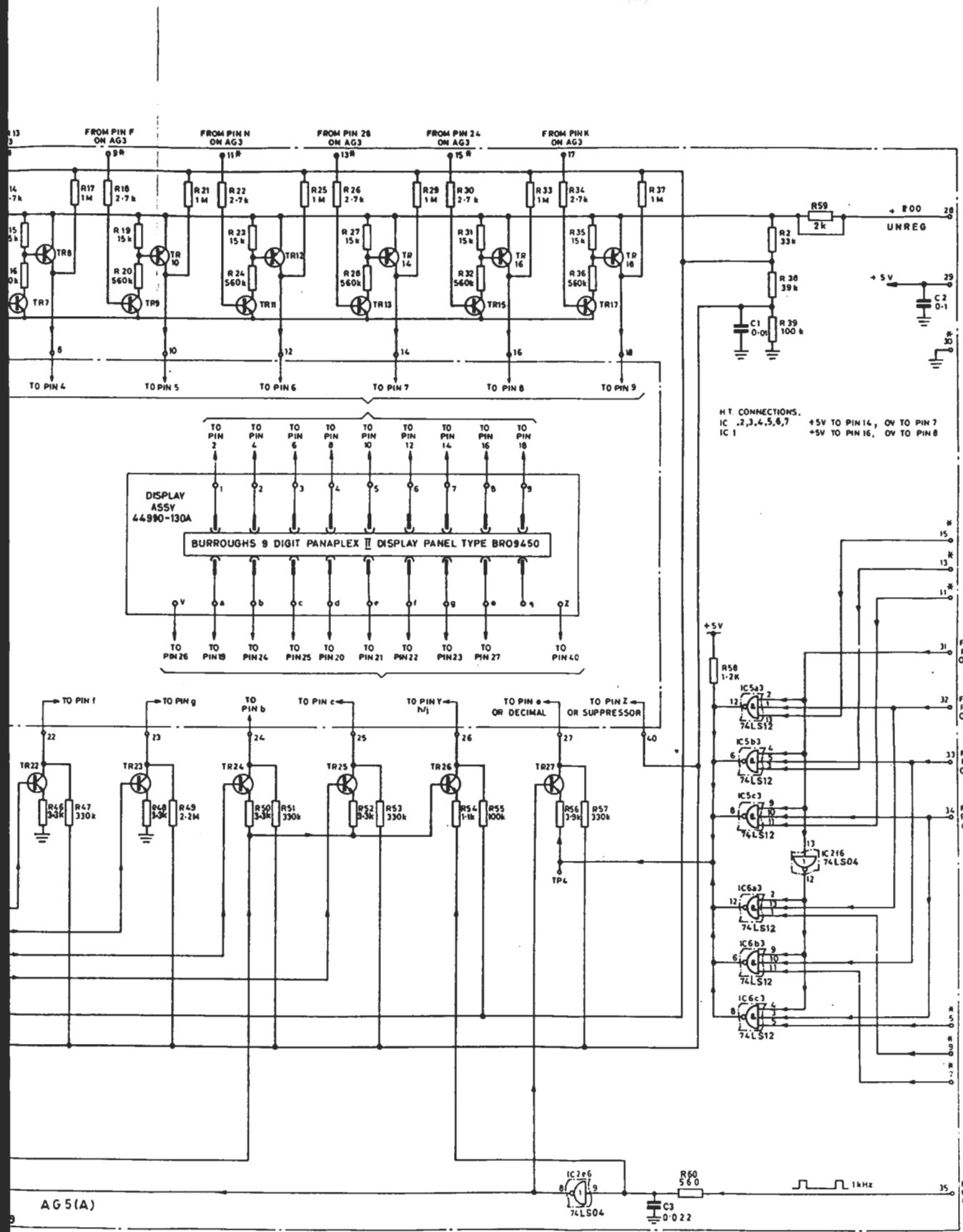
H.I. CONNECTIONS.
 IC 2,3,4,5,6,7 +5V TO PIN 14, 0V TO PIN 7
 IC 1 +5V TO PIN 16, 0V TO PIN 8

Fig. 7.28 Counter display AG5



View on front of display of one of the nine digits showing segment arrangement.





HI CONNECTIONS.
 IC 2,3,4,5,6,7 +5V TO PIN 14, OV TO PIN 7
 IC 1 +5V TO PIN 16, OV TO PIN 8

Fig. 7.28 Counter display AG5

Waveforms for AG1

TF 2370 controls - SWEEP MODE : MANUAL
 HORIZONTAL SCALE and RANGE : 5 MHz/DIV
 FILTER BANDWIDTH : NORMAL
 COUNTER FREQUENCY : (1) to (20) BRIGHT LINE
 (21) to (24) DIFF

For (1) to (12), remove boards AE5 and AG4. Also adjust REFERENCE FREQ and/or BRIGHT LINE controls to obtain a 2 MHz signal at pin 1 of AG1. Disconnect the wire to pin 30 on AG1 and connect pin 5 on AG1 to earth. Momentarily connect to earth pin 15 of IC4 on AG1 for (5) to (8) and pin 4 of IC4 on AG1 (i.e. pin 30 on AG1) for (9) to (12).

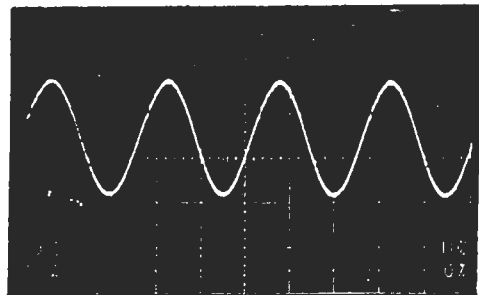
Oscilloscope triggering - (5) to (12) from pin 28 on AG1 (a.c. positive)
 (13) to (16) from pin 9 on AG1 (a.c. negative)
 (17) to (24) from pin 8 on AG1 (a.c. negative)

Horizontal scale Vertical scale Datum level

0.2 μ s/div

0.5 V/div

6 V →

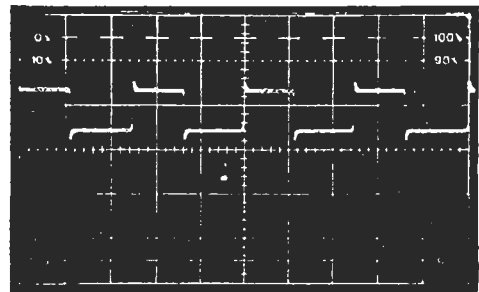


1

0.2 μ s/div

1 V/div

0 V →

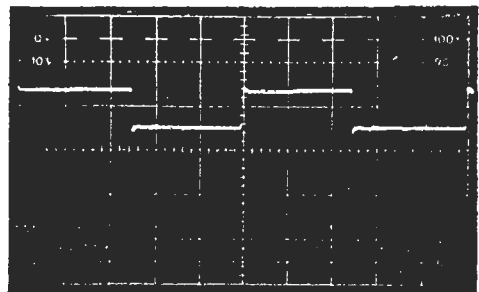


2

0.2 μ s/div

1 V/div

0 V →

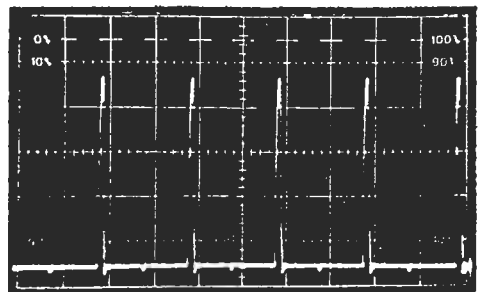


3

0.5 μ s/div

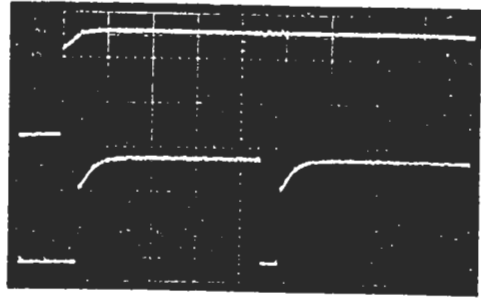
1 V/div

0 V →



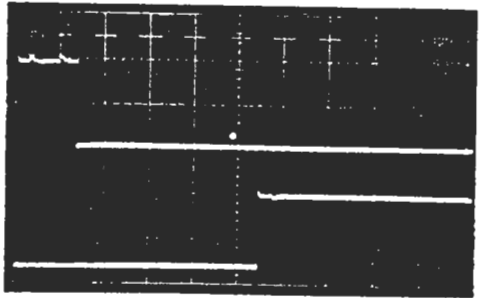
4

5 μ s/div 2 V/div



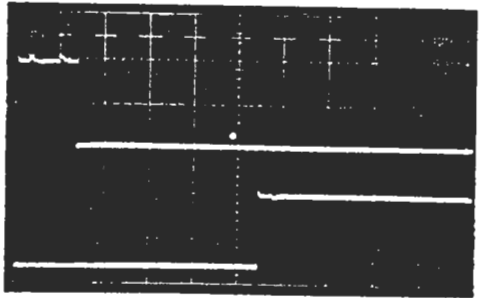
17

5 μ s/div 2 V/div



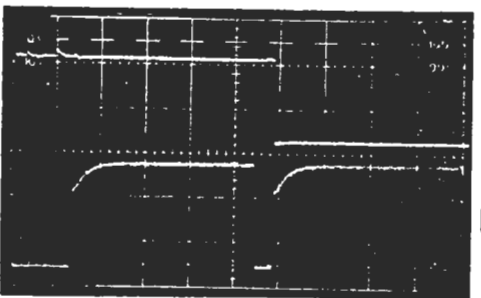
18

5 μ s/div 2 V/div



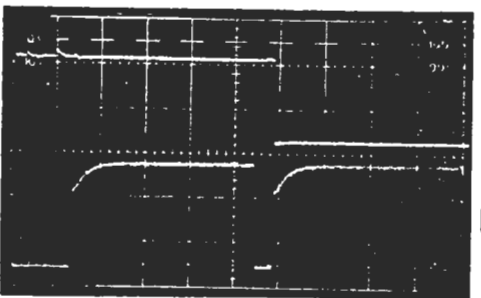
19

5 μ s/div 2 V/div



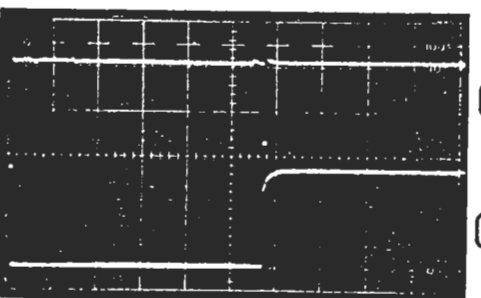
20

5 μ s/div 2 V/div



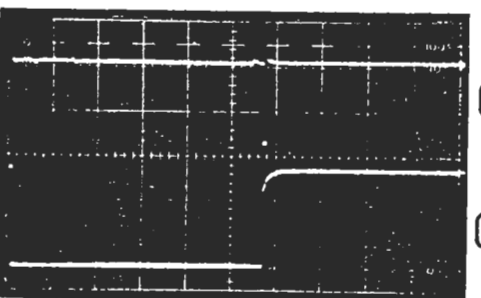
21

5 μ s/div 2 V/div



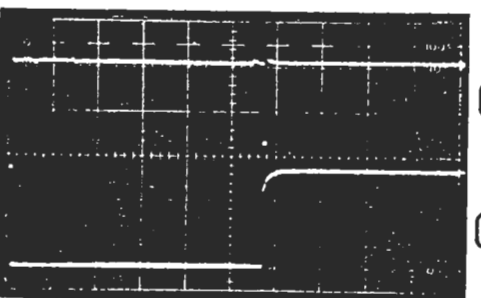
22

5 μ s/div 2 V/div



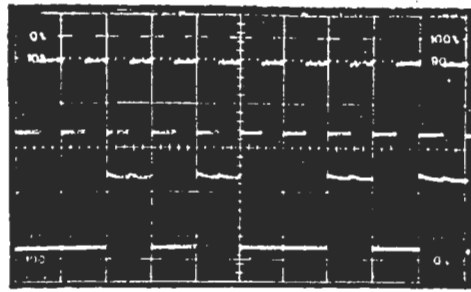
23

5 μ s/div 2 V/div



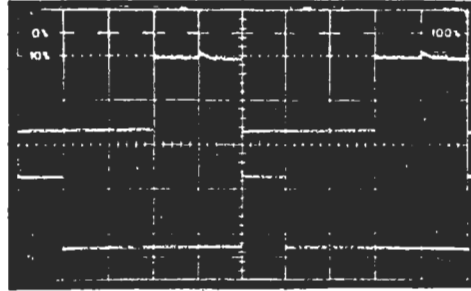
24

2 $\mu\text{s}/\text{div}$ 2 V/div



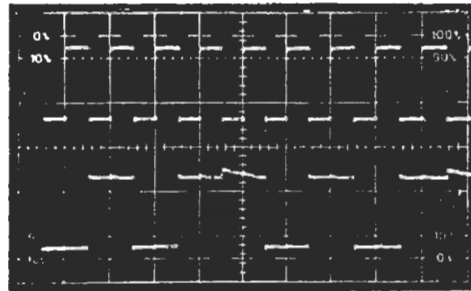
5

2 $\mu\text{s}/\text{div}$ 2 V/div



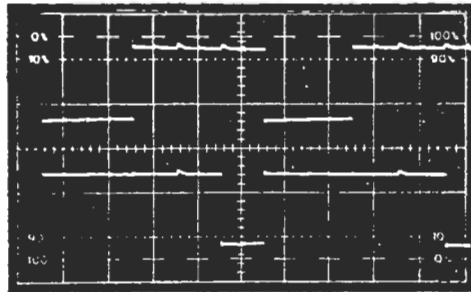
6

2 $\mu\text{s}/\text{div}$ 2 V/div



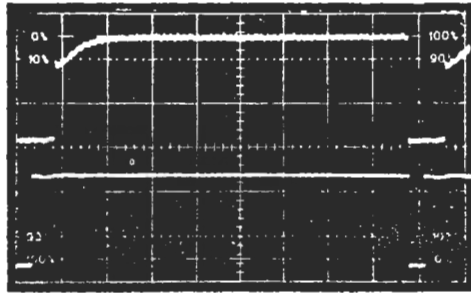
7

2 $\mu\text{s}/\text{div}$ 2 V/div



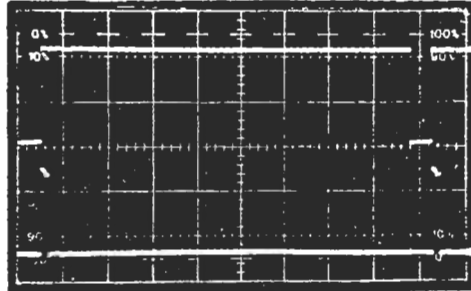
8

2 $\mu\text{s}/\text{div}$ 2 V/div



9

2 $\mu\text{s}/\text{div}$ 2 V/div



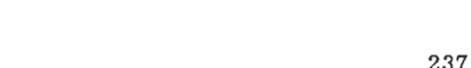
10

2 $\mu\text{s}/\text{div}$ 2 V/div



11

2 $\mu\text{s}/\text{div}$ 2 V/div



12

2.5 $\mu\text{s}/\text{div}$ 2 V/div



13

2.5 $\mu\text{s}/\text{div}$ 2 V/div



14

2.5 $\mu\text{s}/\text{div}$ 2 V/div

15

2.5 $\mu\text{s}/\text{div}$ 2 V/div

16

17

18

19

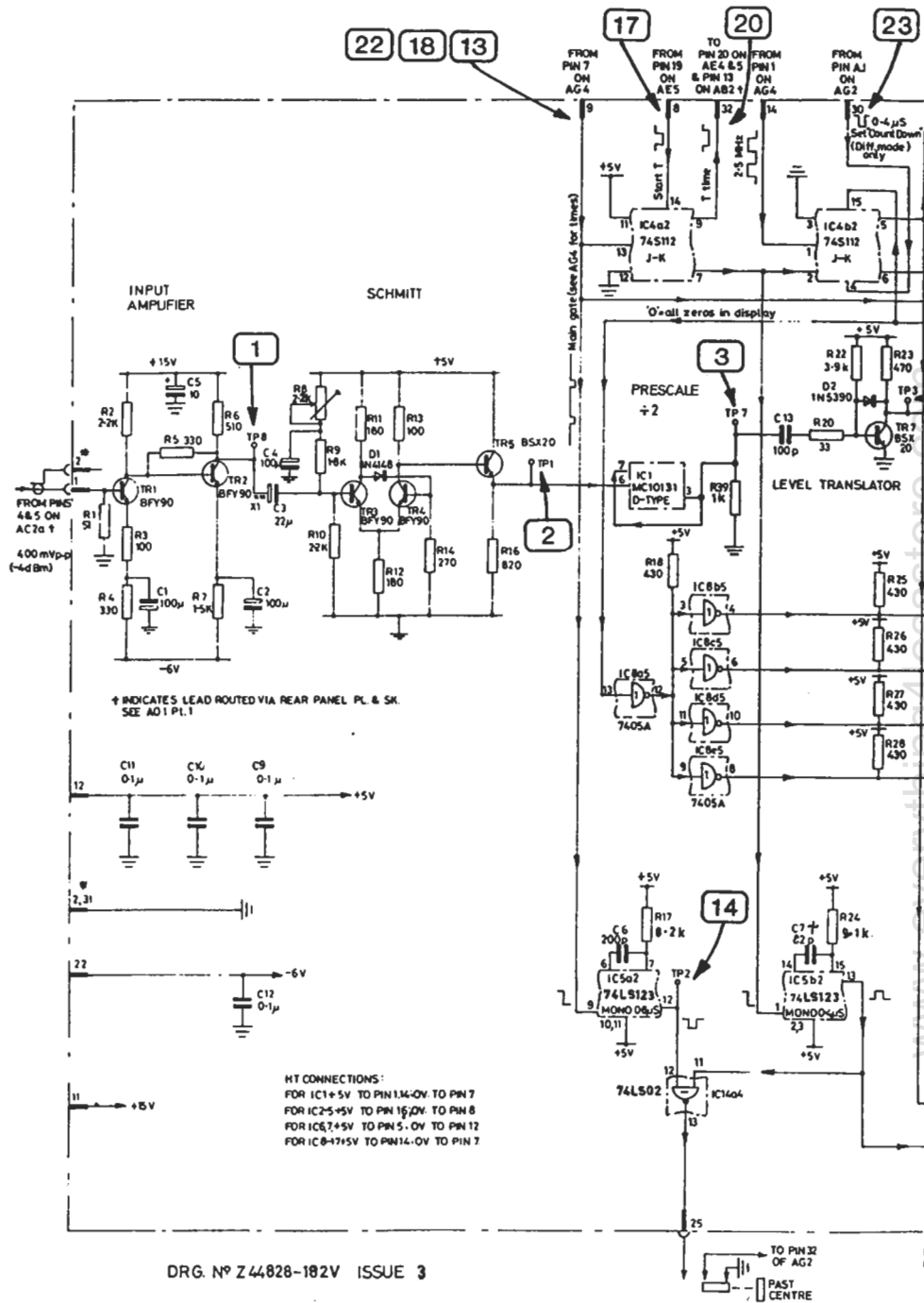
20

21

22

23

24



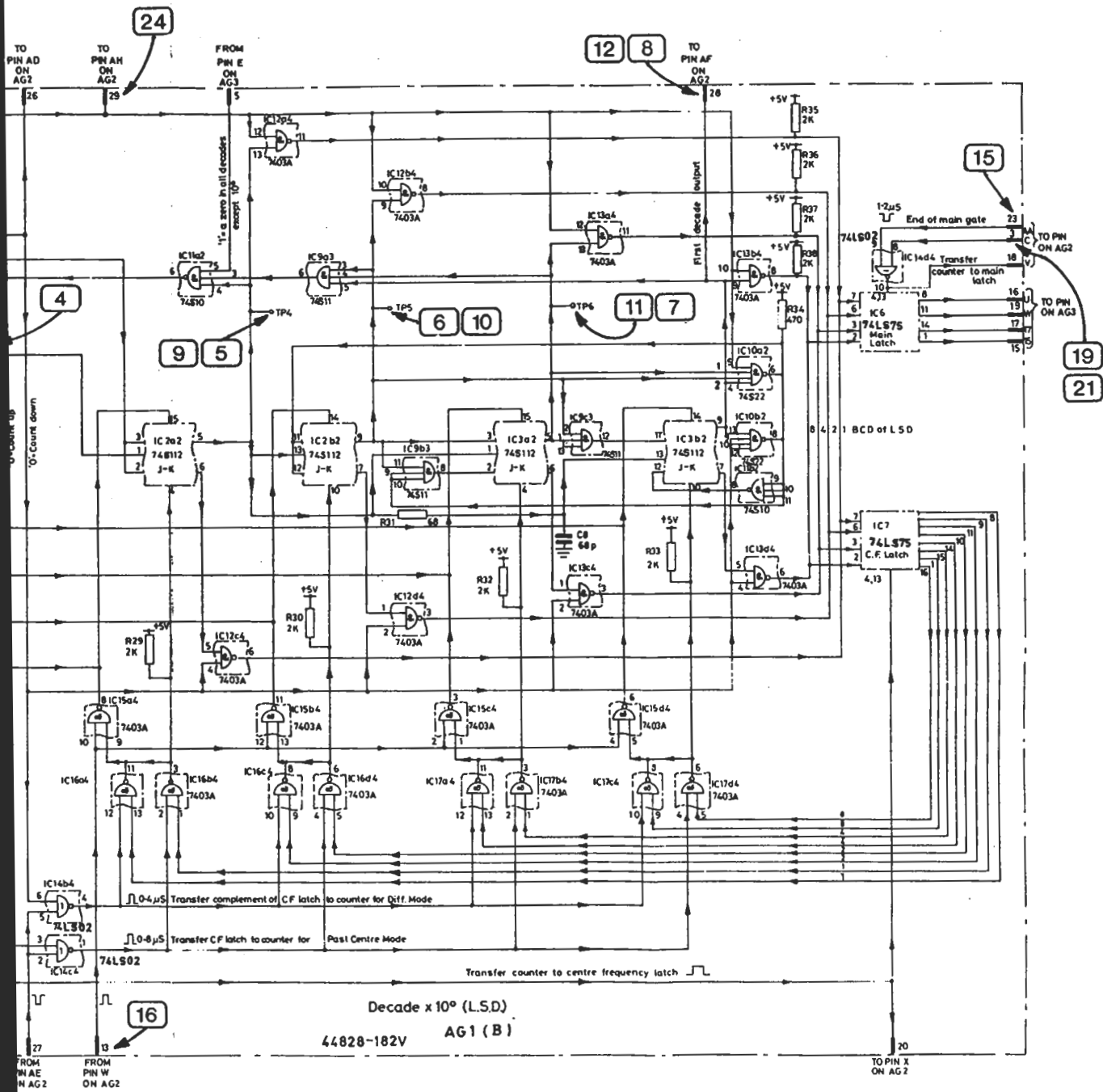


Fig. 7.29 Counter front end AG1

17

18

19

20

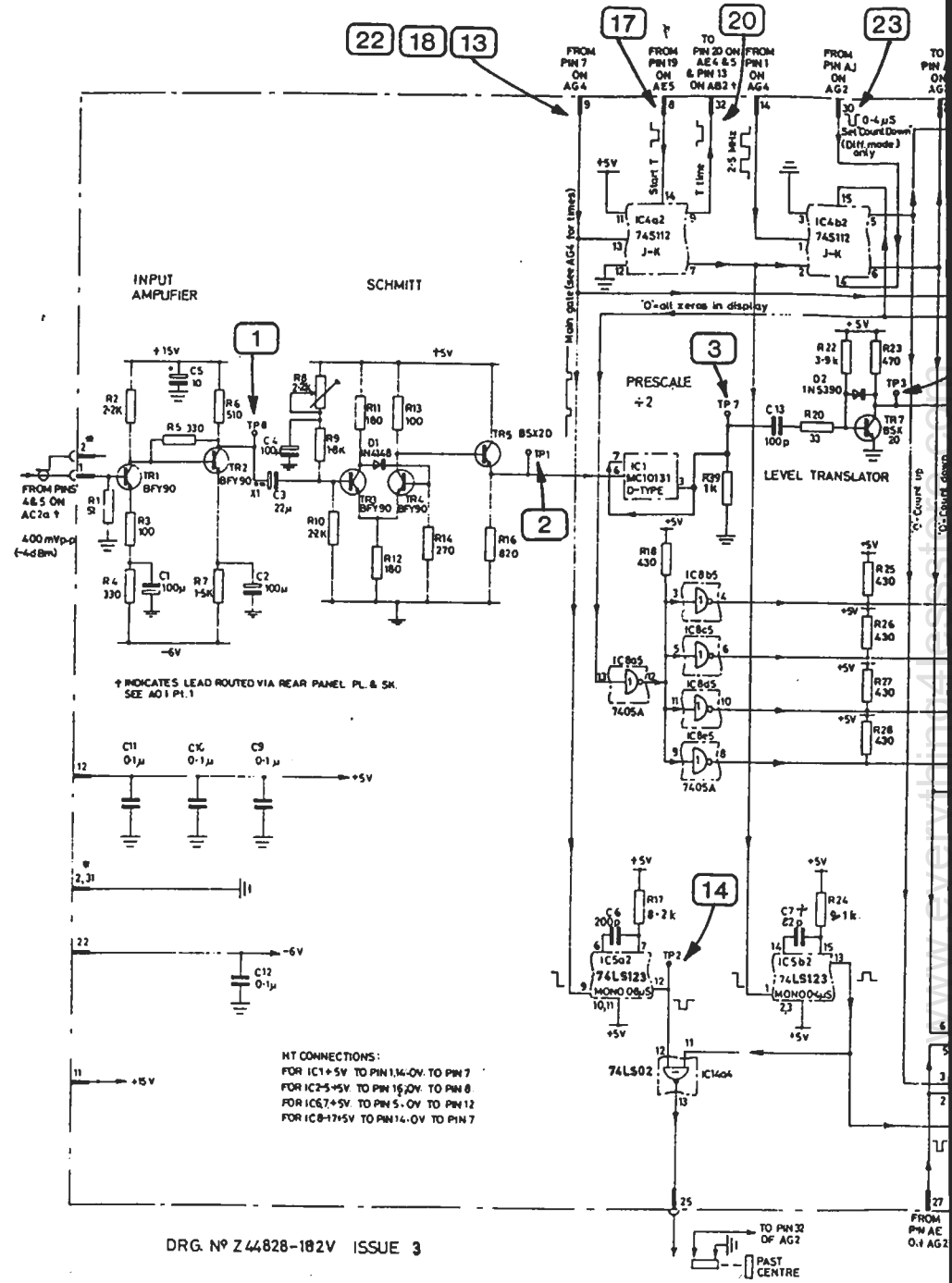
21

22

23

24

HC 1024 = MC 1024



DRG. N° Z44828-102V ISSUE 3

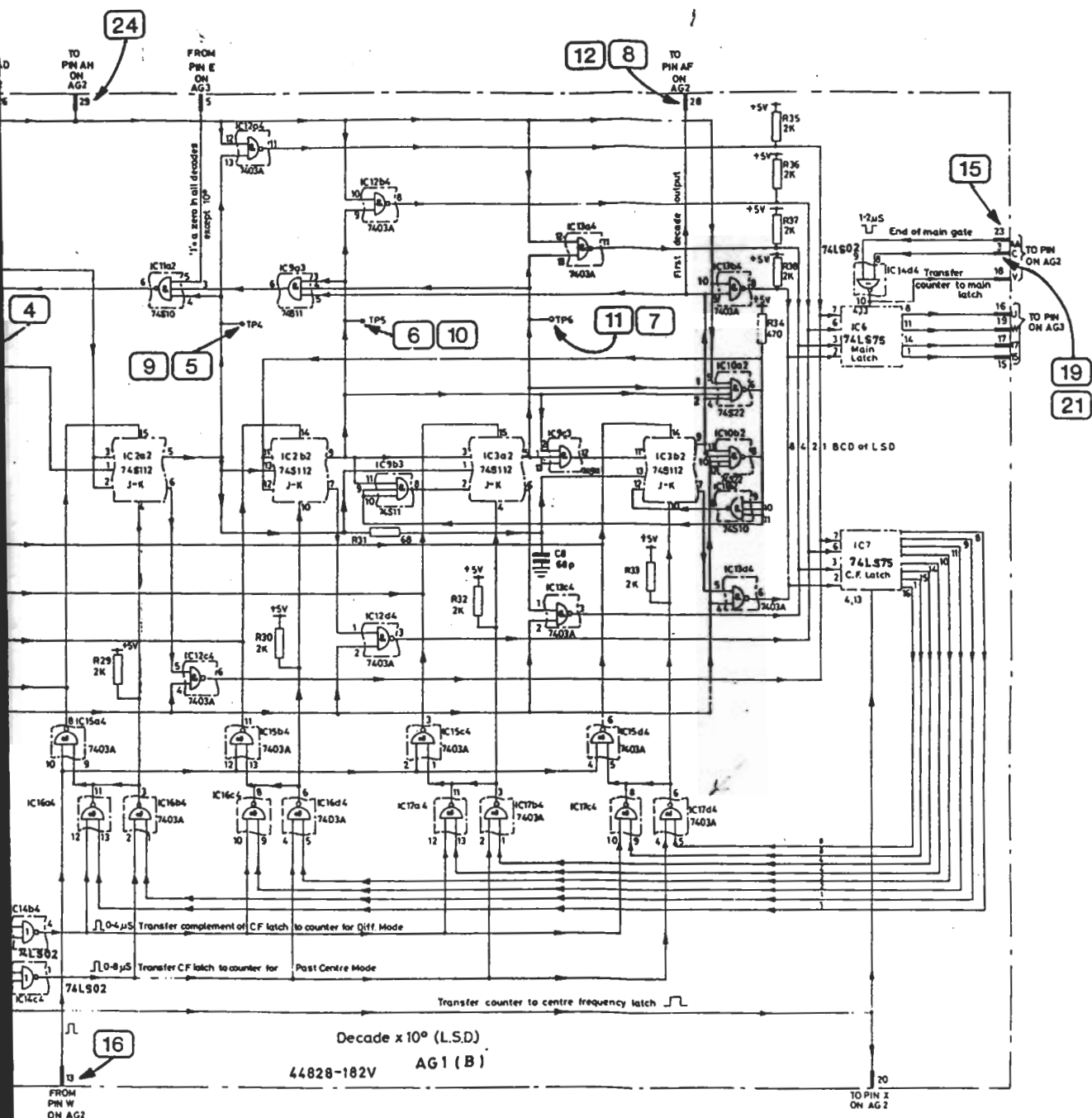
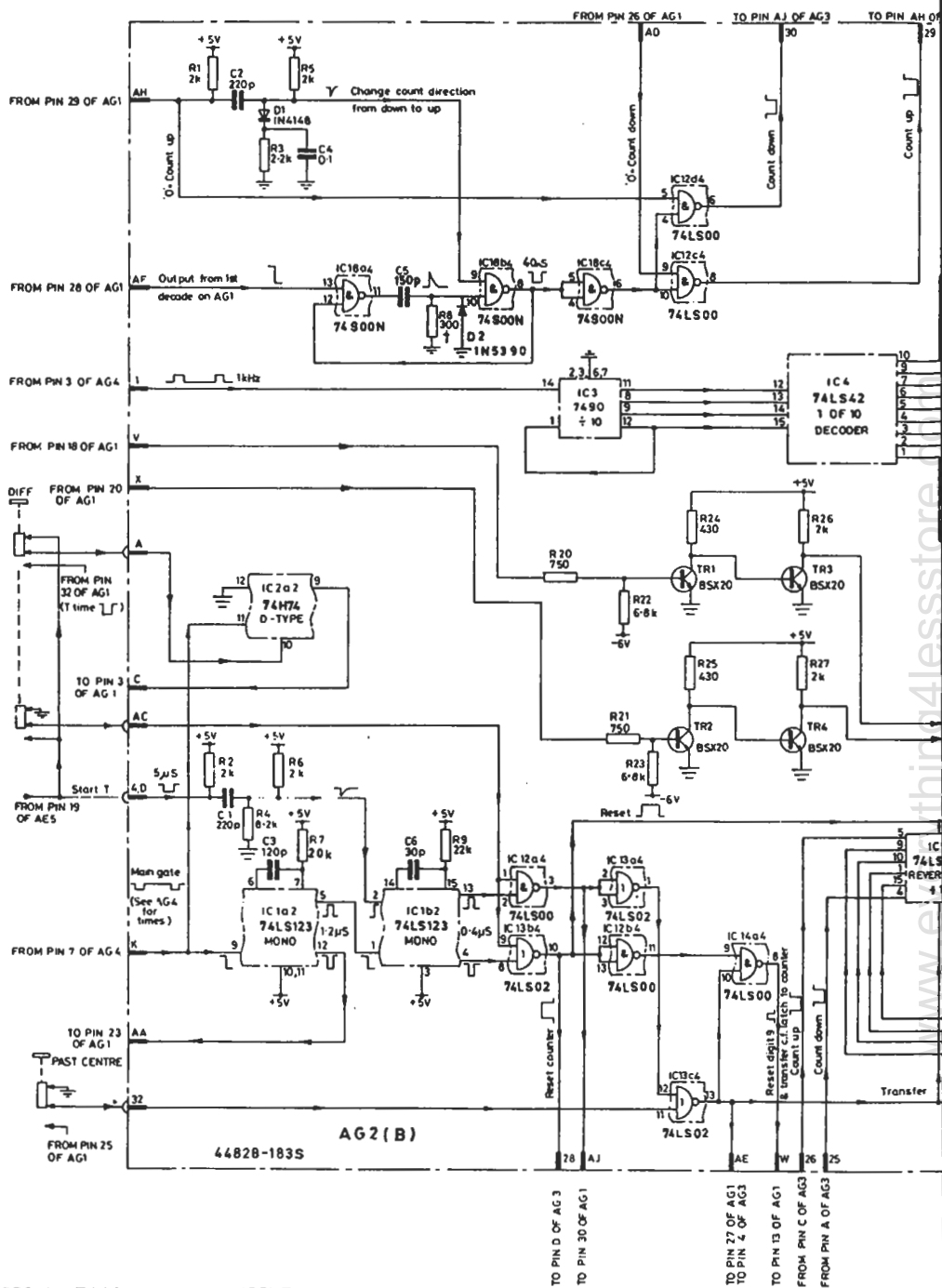
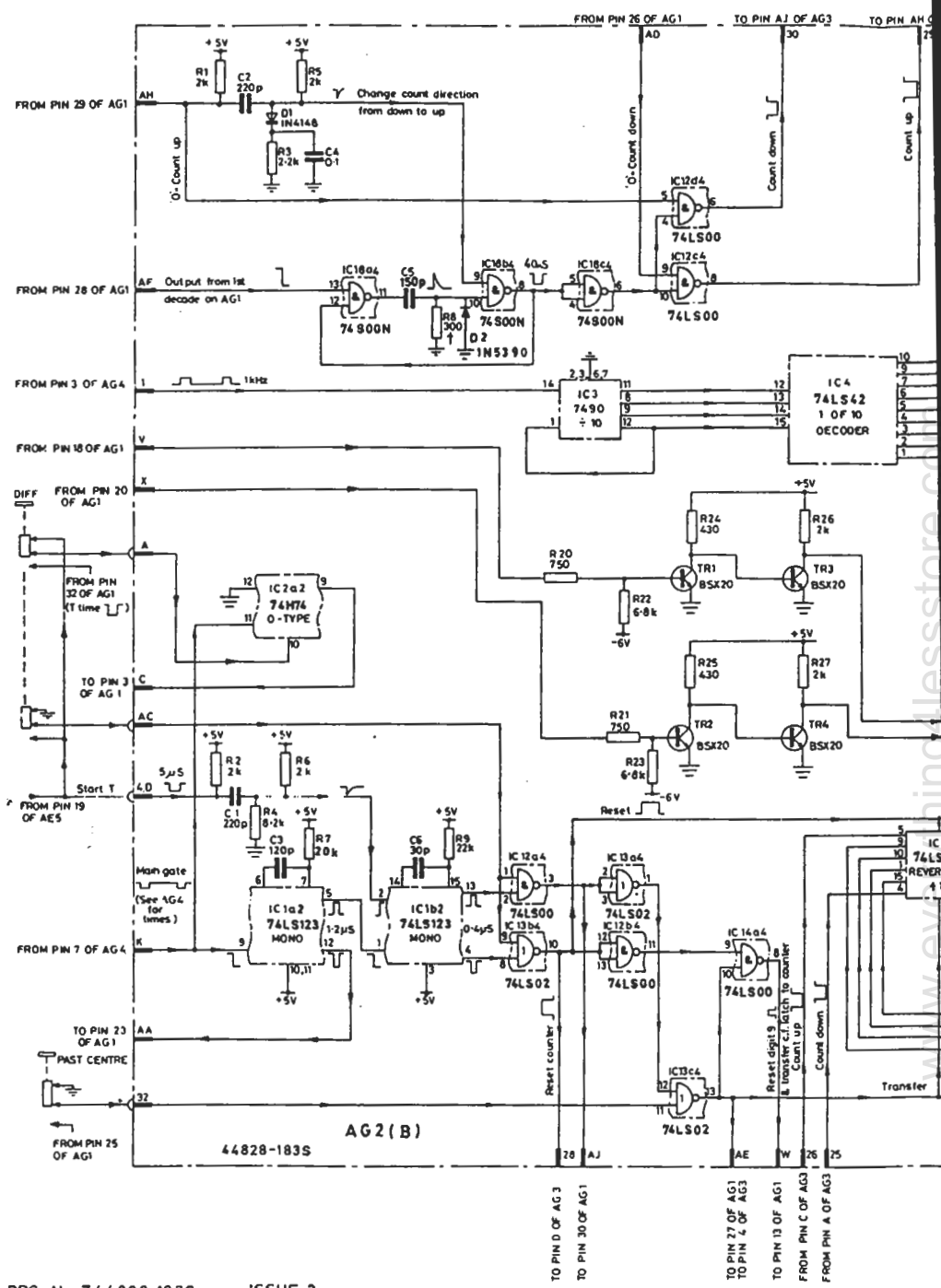


Fig. 7.29 Counter front end AG1

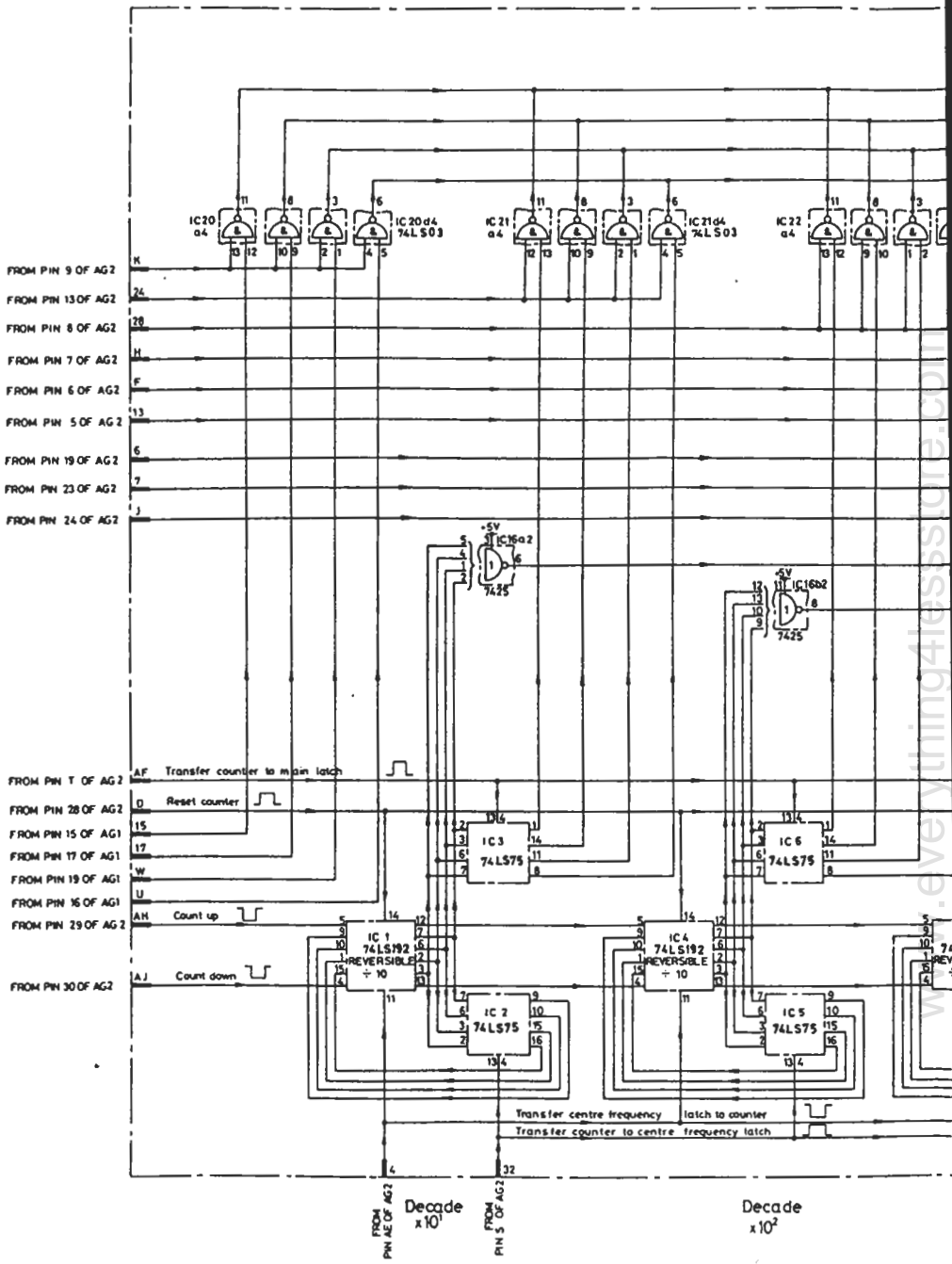


DRG No Z44828-183S ISSUE 3



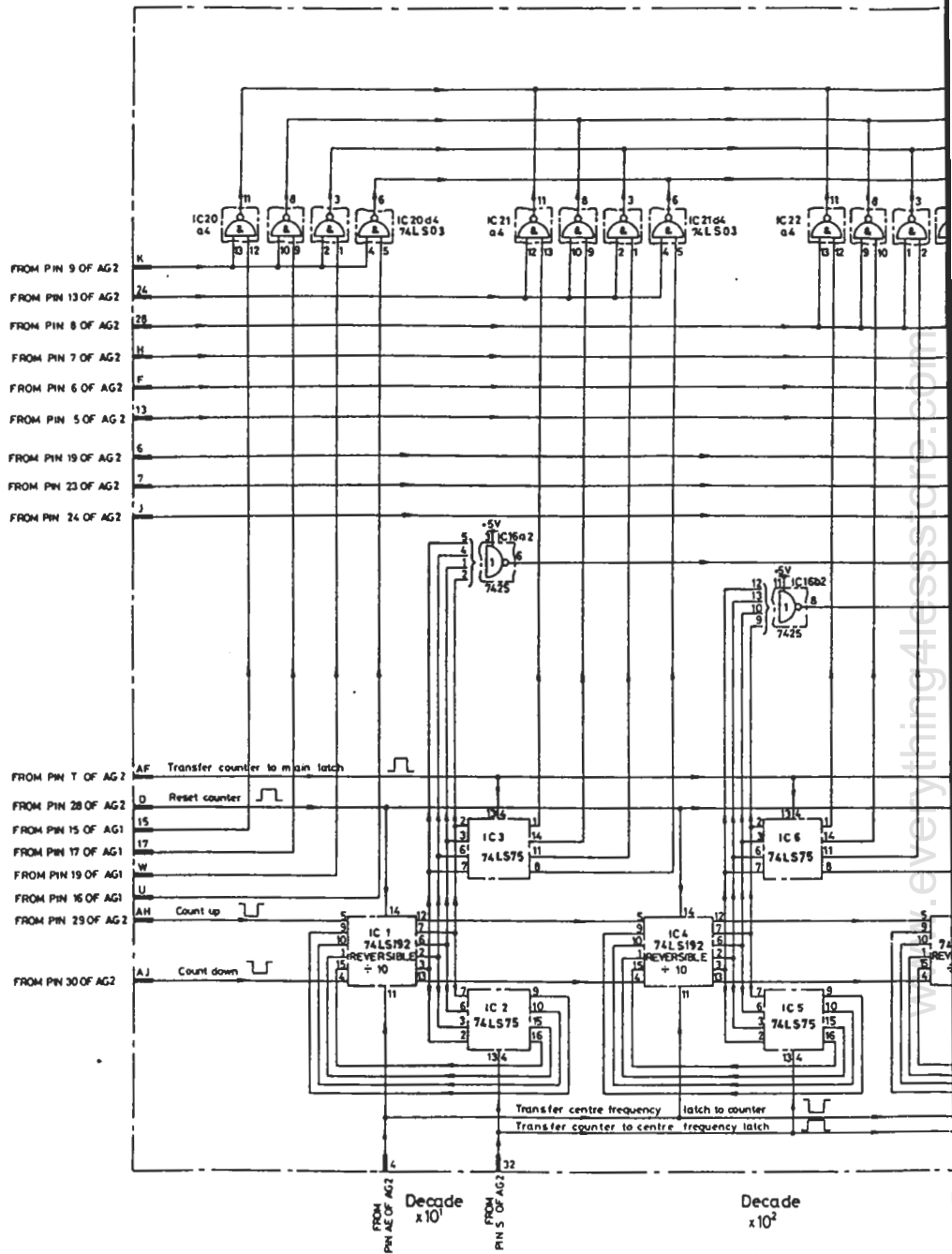
DRG No Z44 828-1835 ISSUE 3

2370(1e)



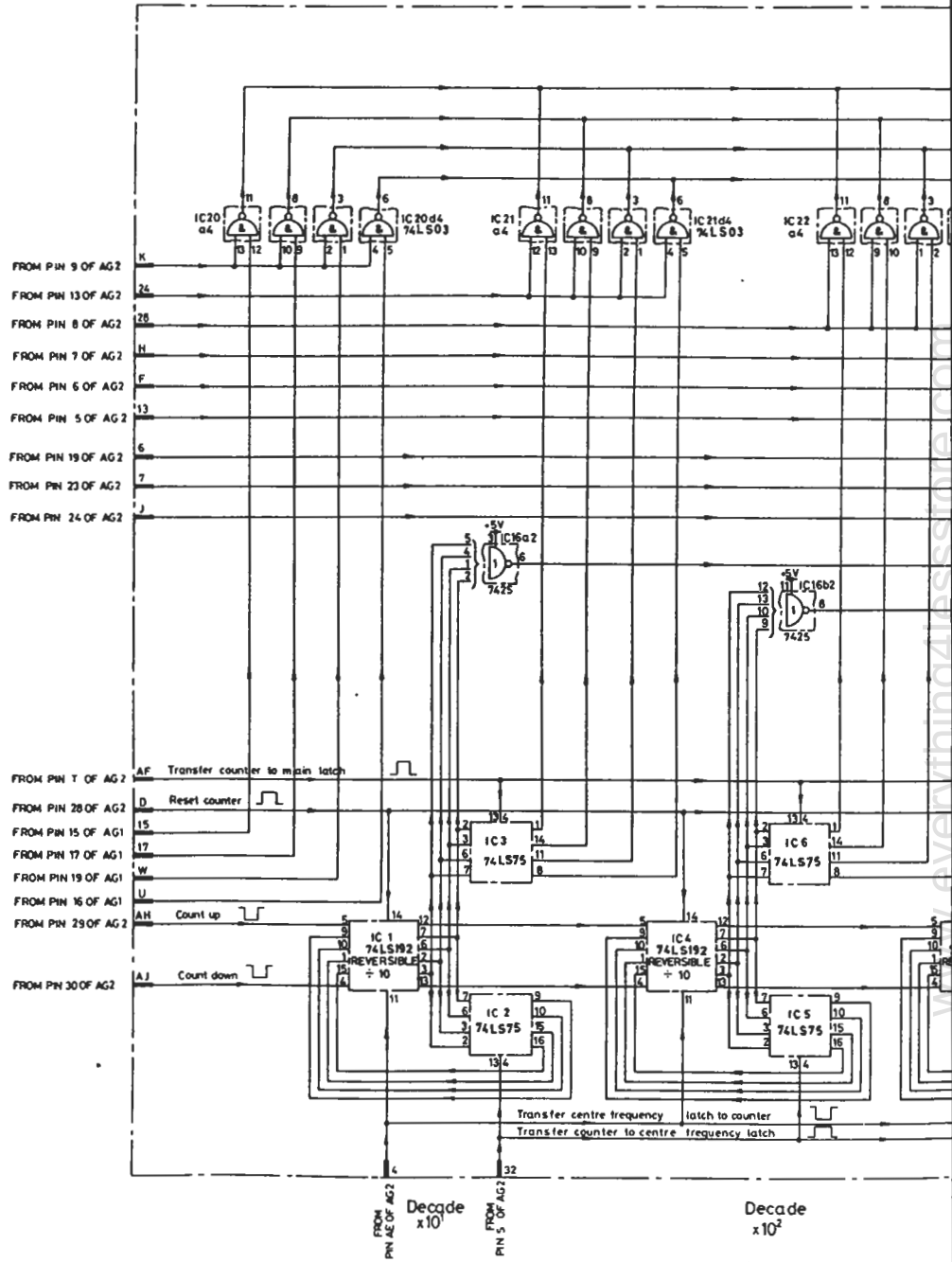
DRG No. Z44828-118D

ISSUE 2



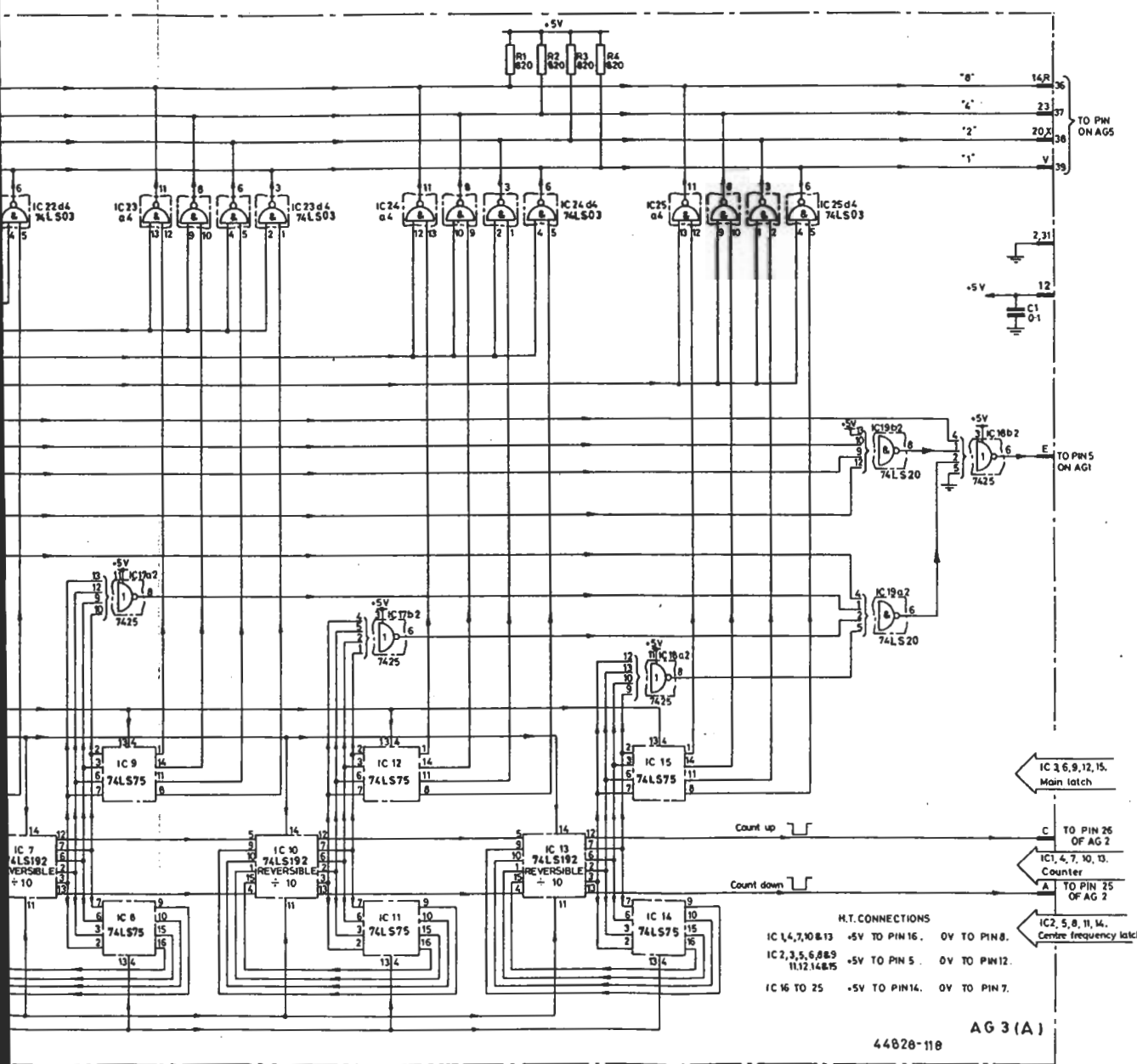
DRG No. Z44828-118D

ISSUE 2



DRG No. Z 44828-118D

ISSUE 2



Decade $\times 10^3$ Decade $\times 10^4$ Decade $\times 10^5$

H.T. CONNECTIONS
 IC 1, 4, 7, 10 & 13 -5V TO PIN 16. 0V TO PIN 8.
 IC 2, 3, 5, 6, 8 & 9 -5V TO PIN 5. 0V TO PIN 12.
 IC 16 TO 25 -5V TO PIN 14. 0V TO PIN 7.

AG 3 (A)

Fig. 7.31 Main divider chain AG3

Waveforms for AK1

TF 2370 controls - COUNTER ON/OFF : ON

Feed the a.c. supply through a variable transformer and adjust the voltage to exactly that for which the voltage selection panel is set.

Horizontal scale

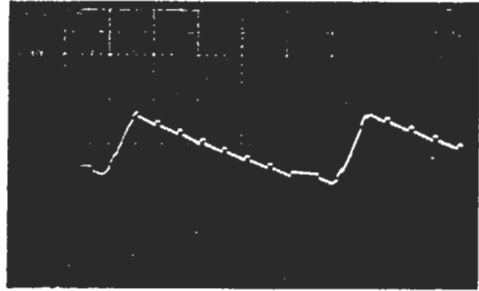
Vertical scale

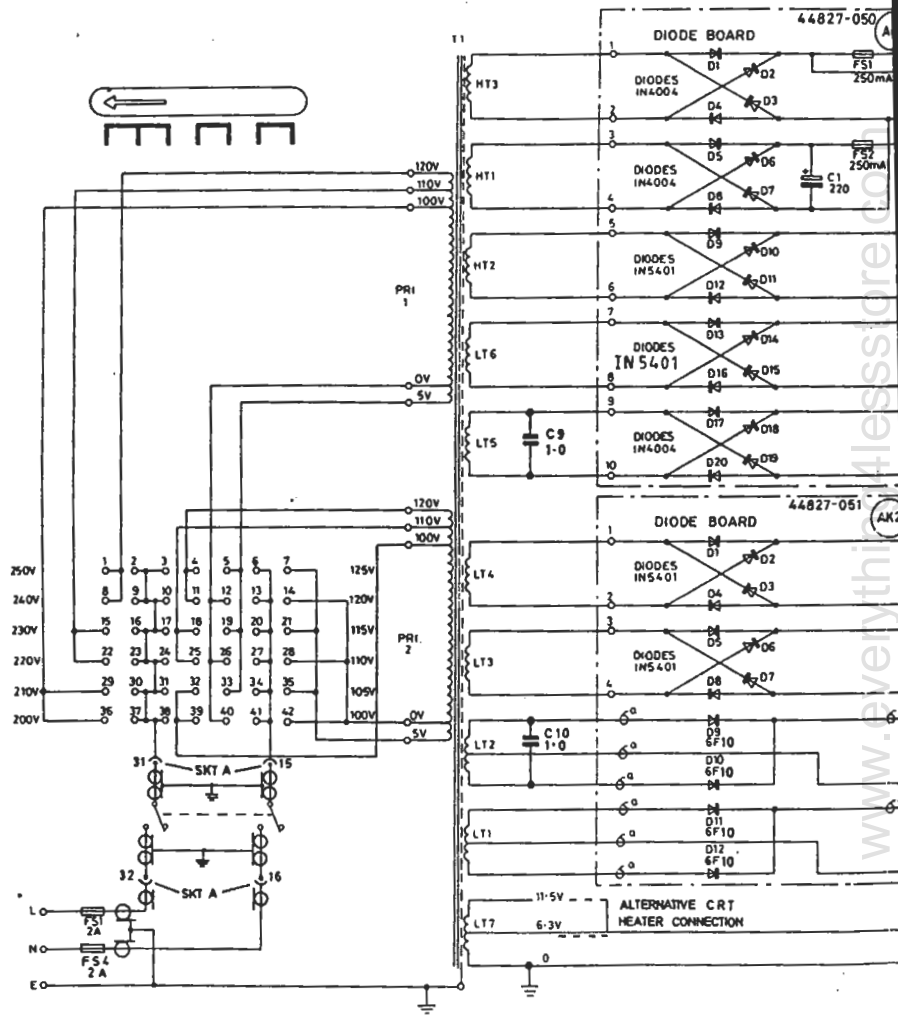
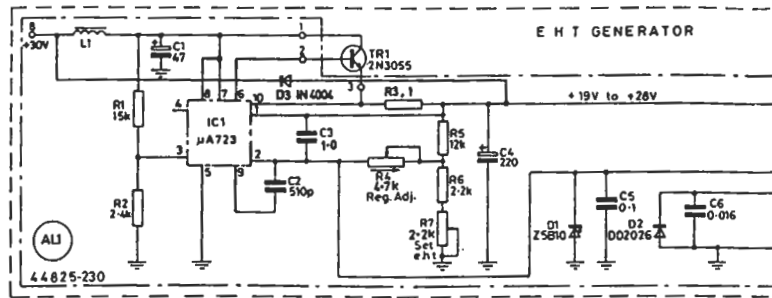
Datum level

2 ms/div

0.5 V/div

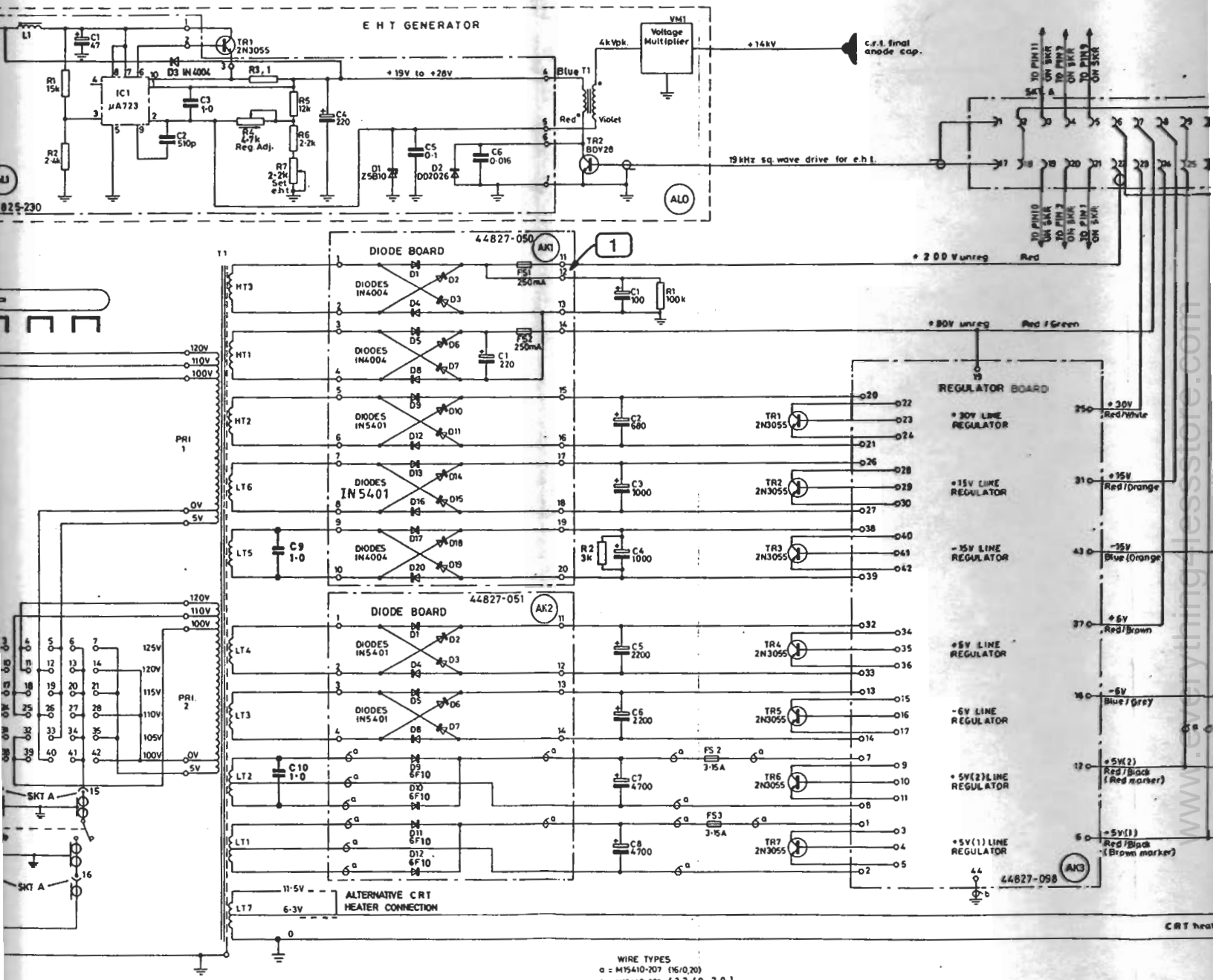
197 V →





DRG No. Z44827-050E

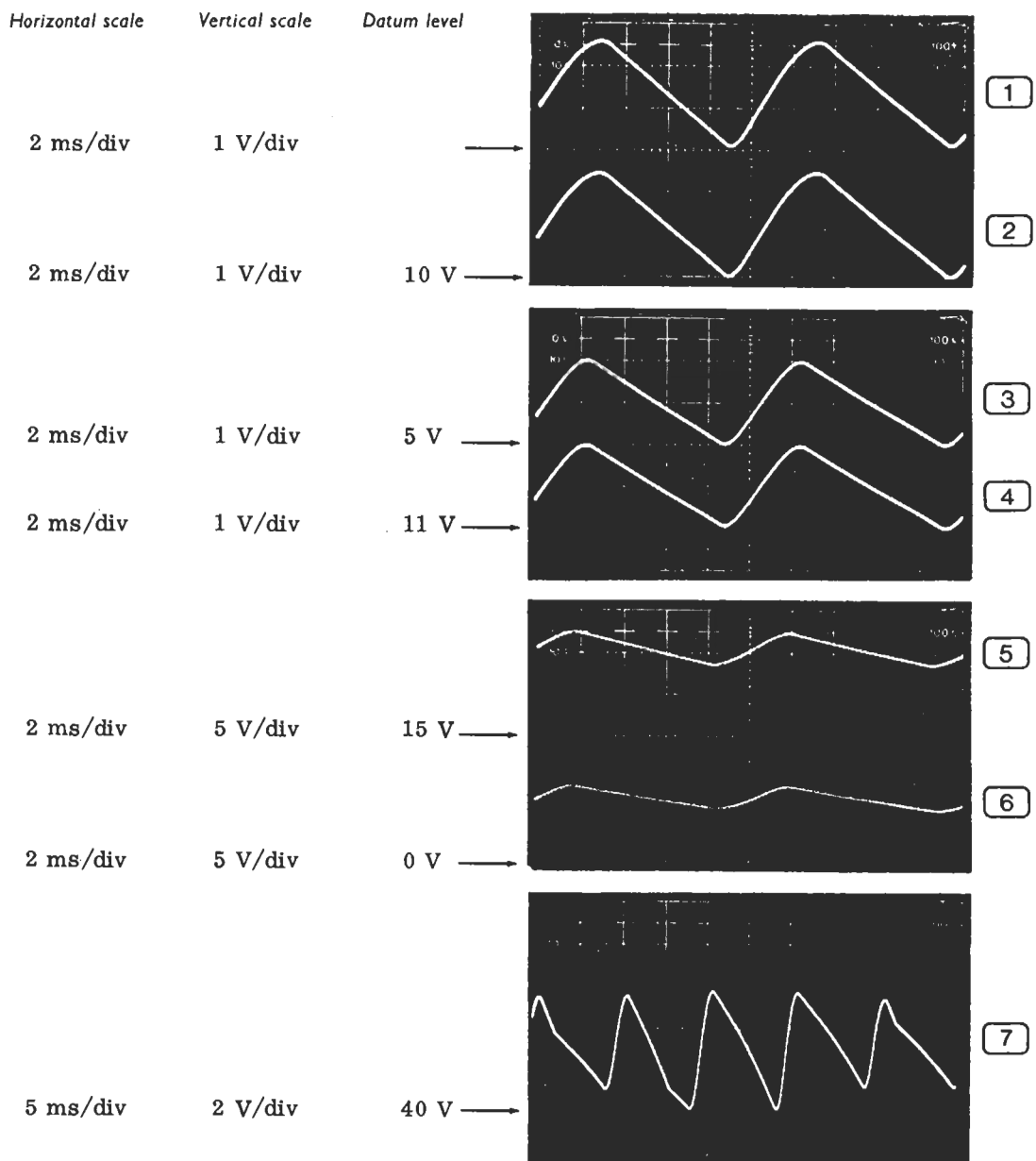
ISSUE 19



WIRE TYPES
 a = M15410-207 (16/0,20)
 b = M15410-305 (32/0,20)
 c = M15410-225 (24/0,20)

Waveforms for AK3

Feed the a.c. supply through a variable transformer and adjust the voltage to exactly that for which the voltage selection panel is set.



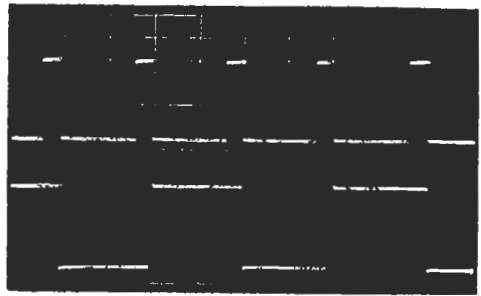
0.2 ms/div 2 V/div

8



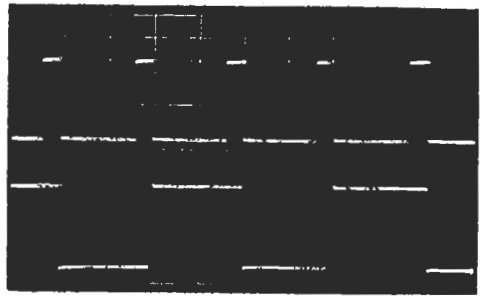
0.2 ms/div 2 V/div

9



0.5 ms/div 2 V/div

10



0.5 ms/div 2 V/div

11



5 ms/div
50 ms/div
0.5 s/div
50 μs/div
0.5 ms/div } 2 V/div

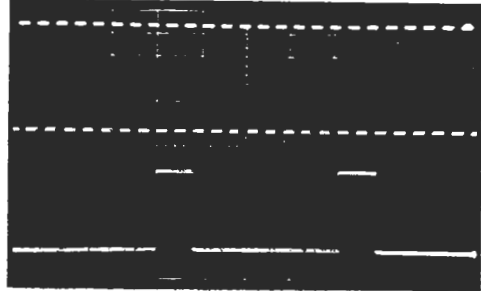
12

13

14

15

16



5 ms/div
50 ms/div
0.5 s/div
50 μs/div
0.5 ms/div } 2 V/div

17

18

19

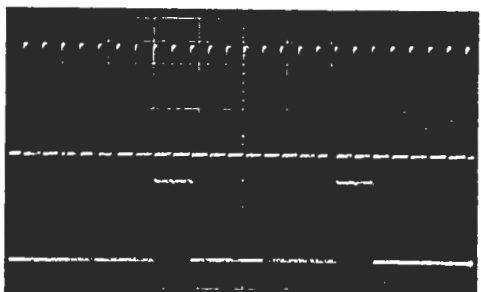
20

21



5 μs/div 2 V/div

22



10 μs/div 2 V/div

23



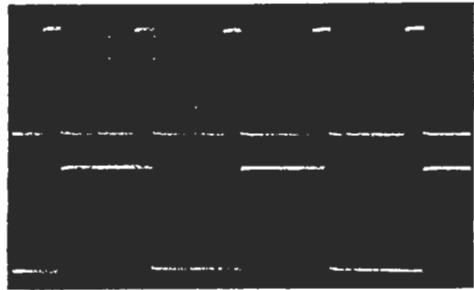
10 $\mu\text{s}/\text{div}$ 2 V/div



24

25

10 $\mu\text{s}/\text{div}$ 2 V/div



26

27

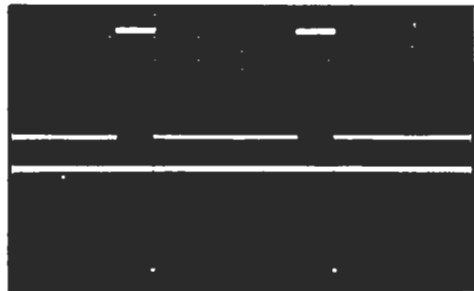
1 ms/div 2 V/div



28

29

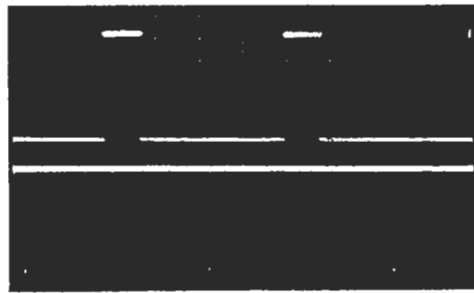
1 ms/div 2 V/div



30

31

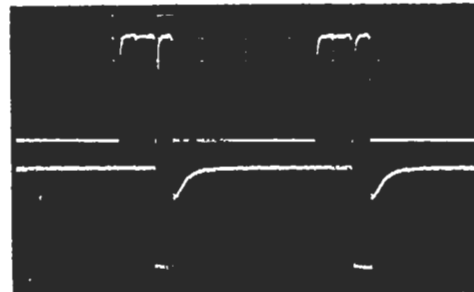
5 ms/div 2 V/div



32

33

5 ms/div 2 V/div



34

35

50 ms/div 2 V/div

50 ms/div 2 V/div

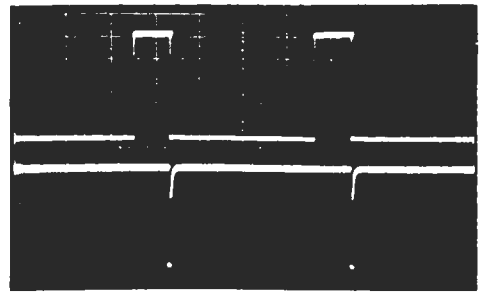
0.5 s/div 2 V/div

0.5 s/div 2 V/div

5 $\mu\text{s}/\text{div}$ 2 V/div

5 $\mu\text{s}/\text{div}$ 2 V/div

50 μ s/div 2 V/div



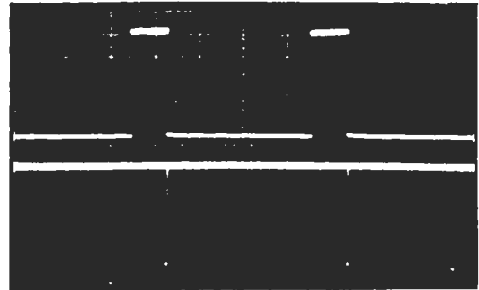
36

50 μ s/div 2 V/div



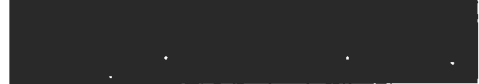
37

0.5 ms/div 2 V/div



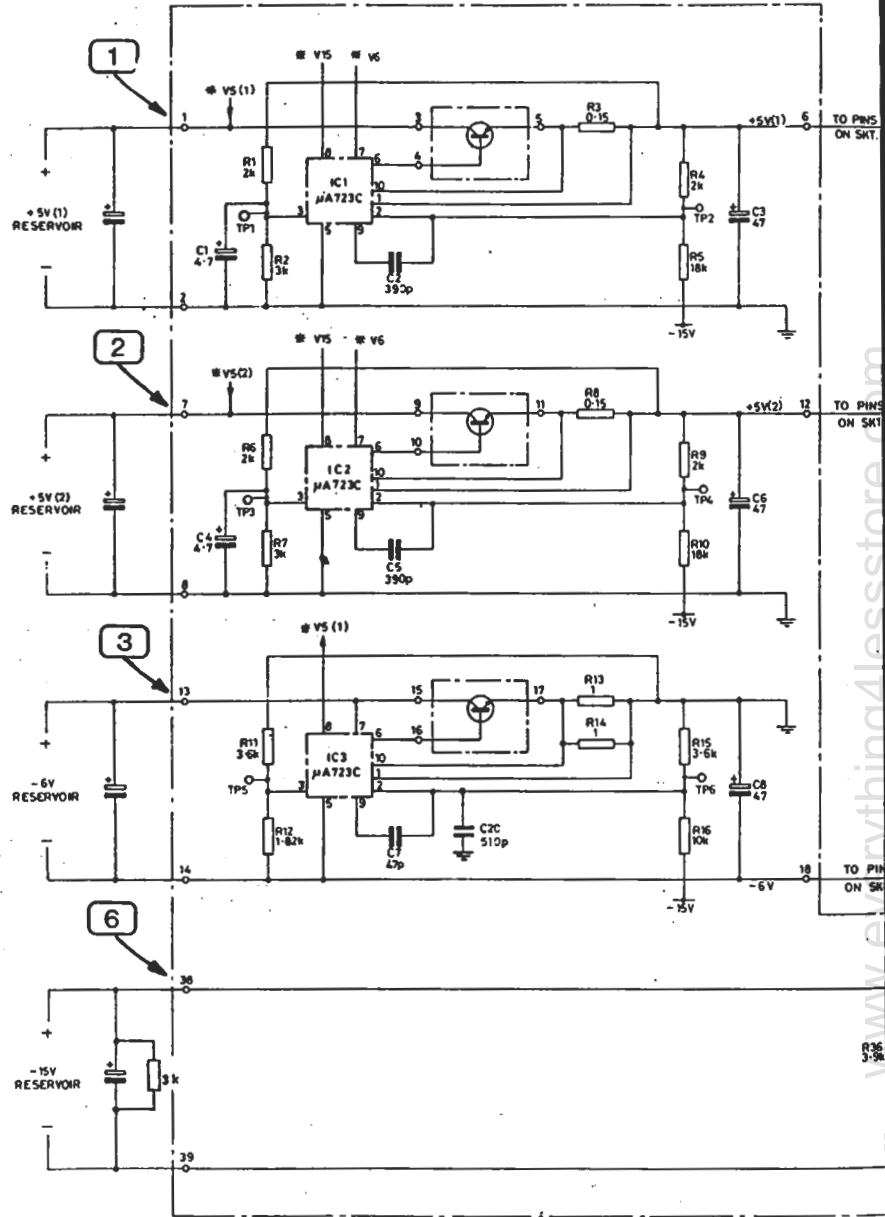
38

0.5 ms/div 2 V/div



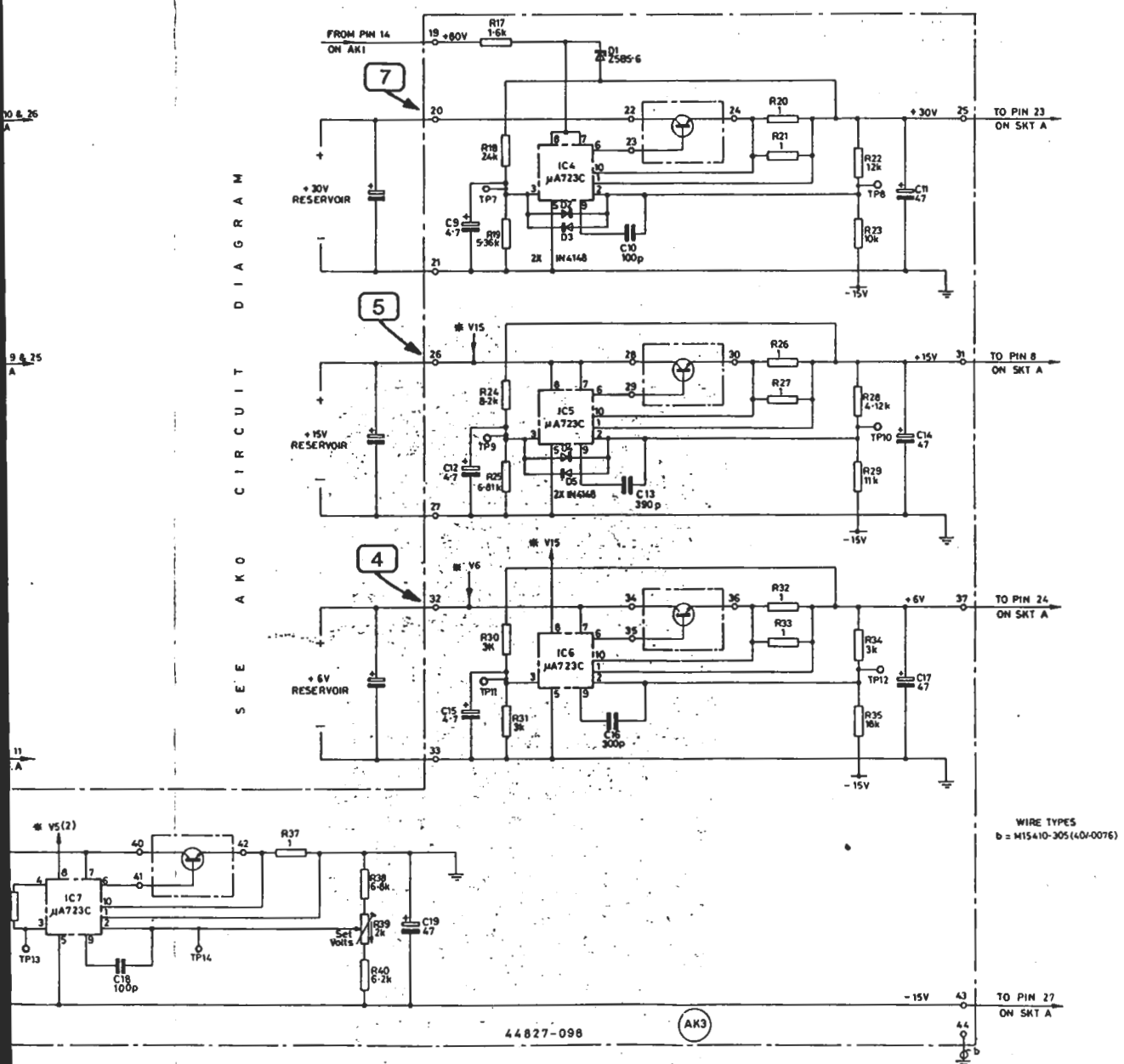
39

SEE ALSO CIRCUIT DIAGRAM



DRG.No. Z 44 827 - 098P ISSUE 6

SEE AKO CIRCUIT DIAGRAM



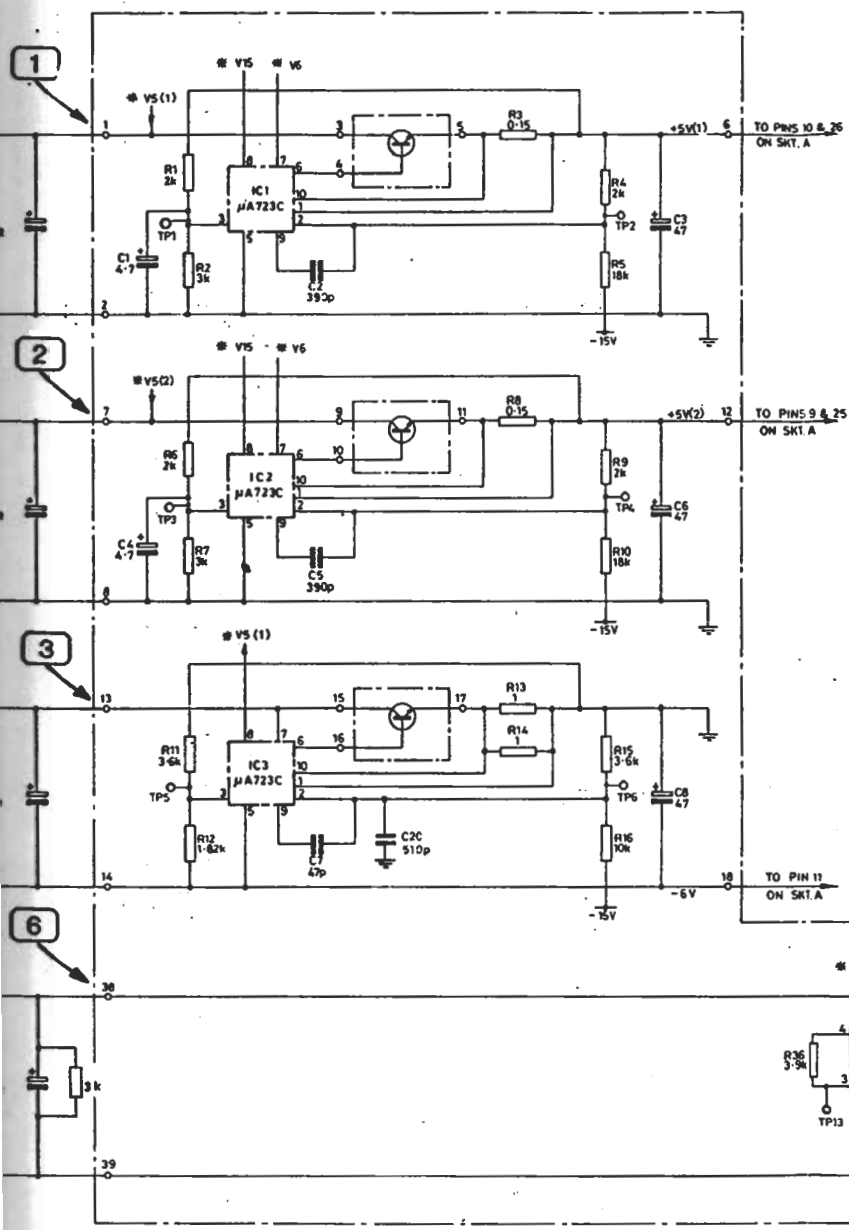
WIRE TYPES
b = M15410-305(404-0076)

44 827-098

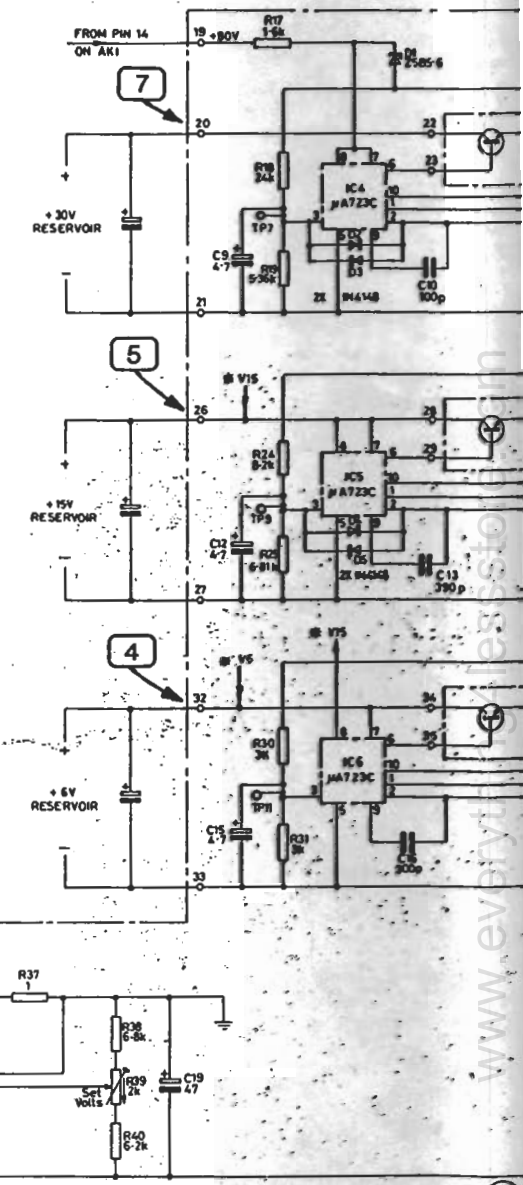
AK3

Fig. 7.33 Regulator AK3

www.everything4lessstore.com



SEE ALSO CIRCUIT DIAGRAM

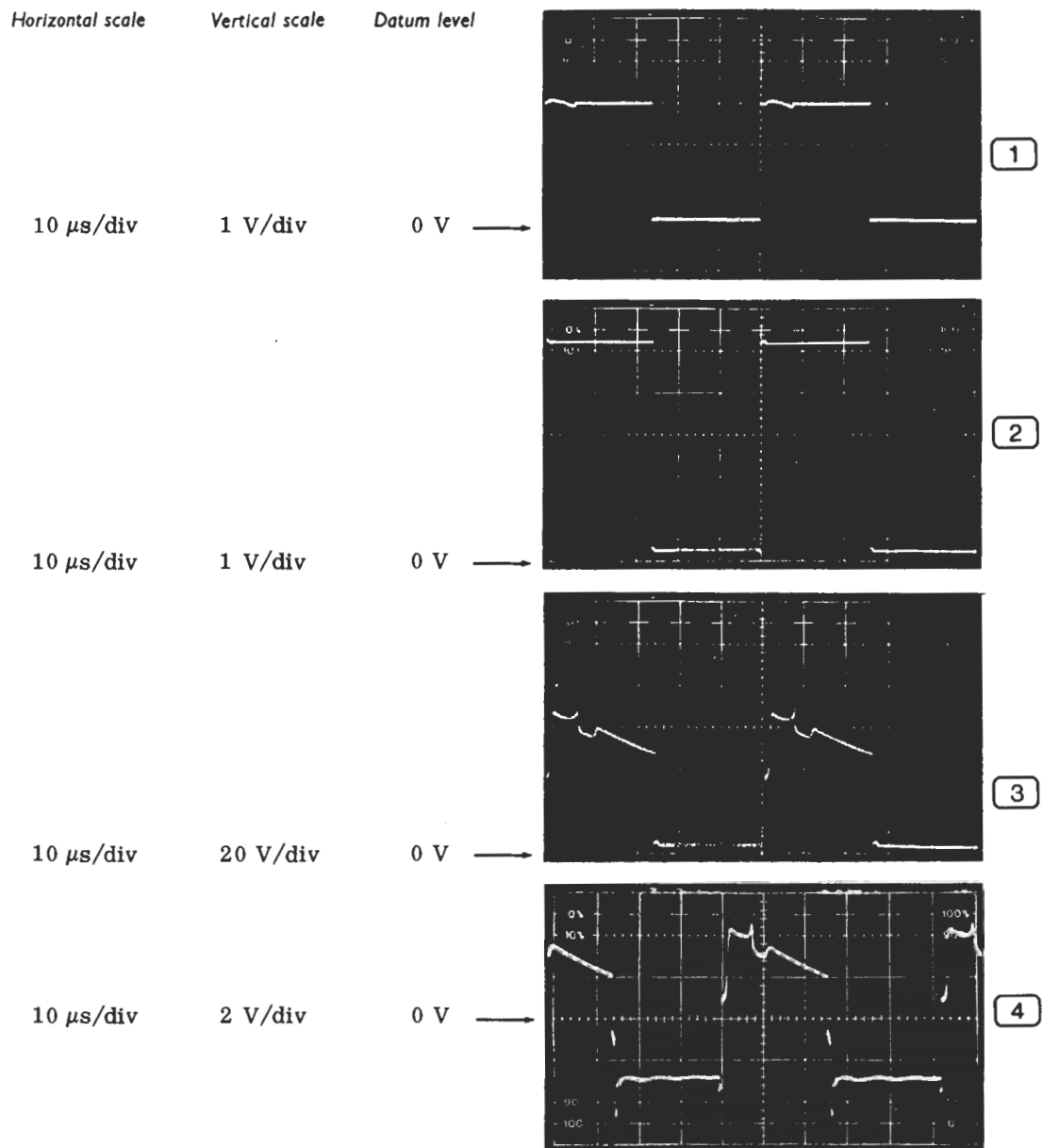


44827-098

AK3

Waveforms for AM1, AM2 and AM3

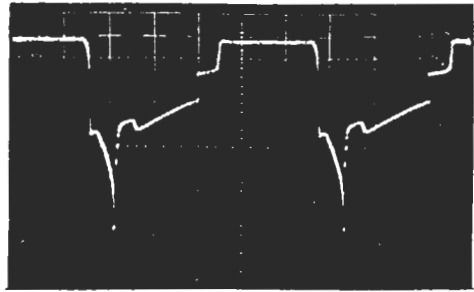
TF 2370 controls - SWEEP MODE : SINGLE
 HORIZONTAL SCALE and RANGE : 10 MHz/DIV
 FILTER BANDWIDTH : NARROW
 REFERENCE FREQUENCY 0-110 MHz : Fully counter-clockwise
 BRIGHT LINE POSITION : (9) and (11) So that the bright line is obscured behind the centre dashed frequency graticule line.
 VERTICAL SCALE RANGE : 10 dB/DIV
 STORE and DISPLAY : HIGH DEFN
 GRATICULE INTENSITY : (8) to (12) Normal contrast so that the waveform amplitude is as shown.



10 $\mu\text{s}/\text{div}$

2 V/div

0 V

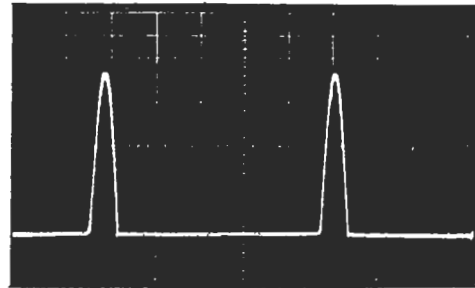


5

10 $\mu\text{s}/\text{div}$

100 V/div

0 V

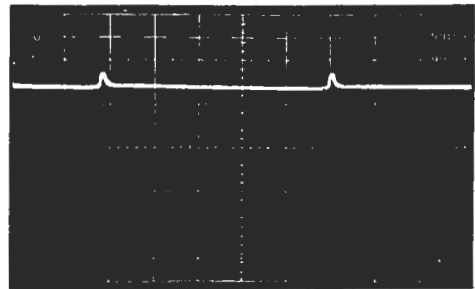


6

10 $\mu\text{s}/\text{div}$

100 V/div

0 V

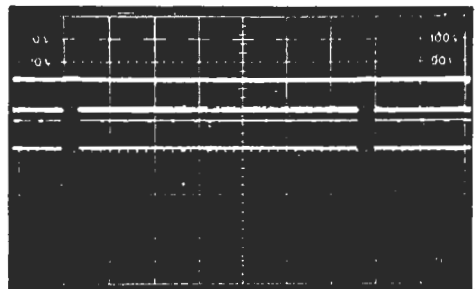


7

2 ms/div

0.5 V/div

14 V

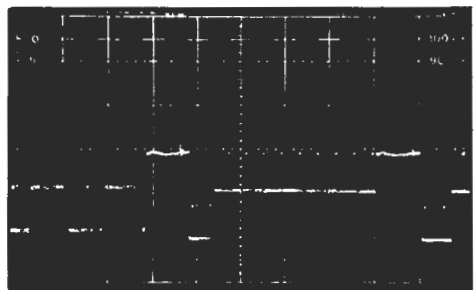


8

10 $\mu\text{s}/\text{div}$

0.5 V/div

14 V

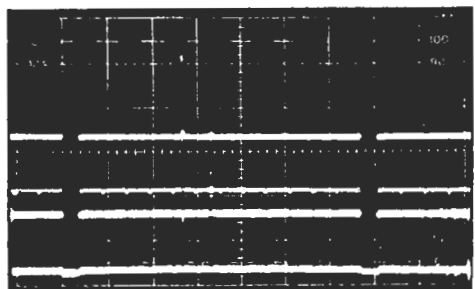


9

2 ms/div

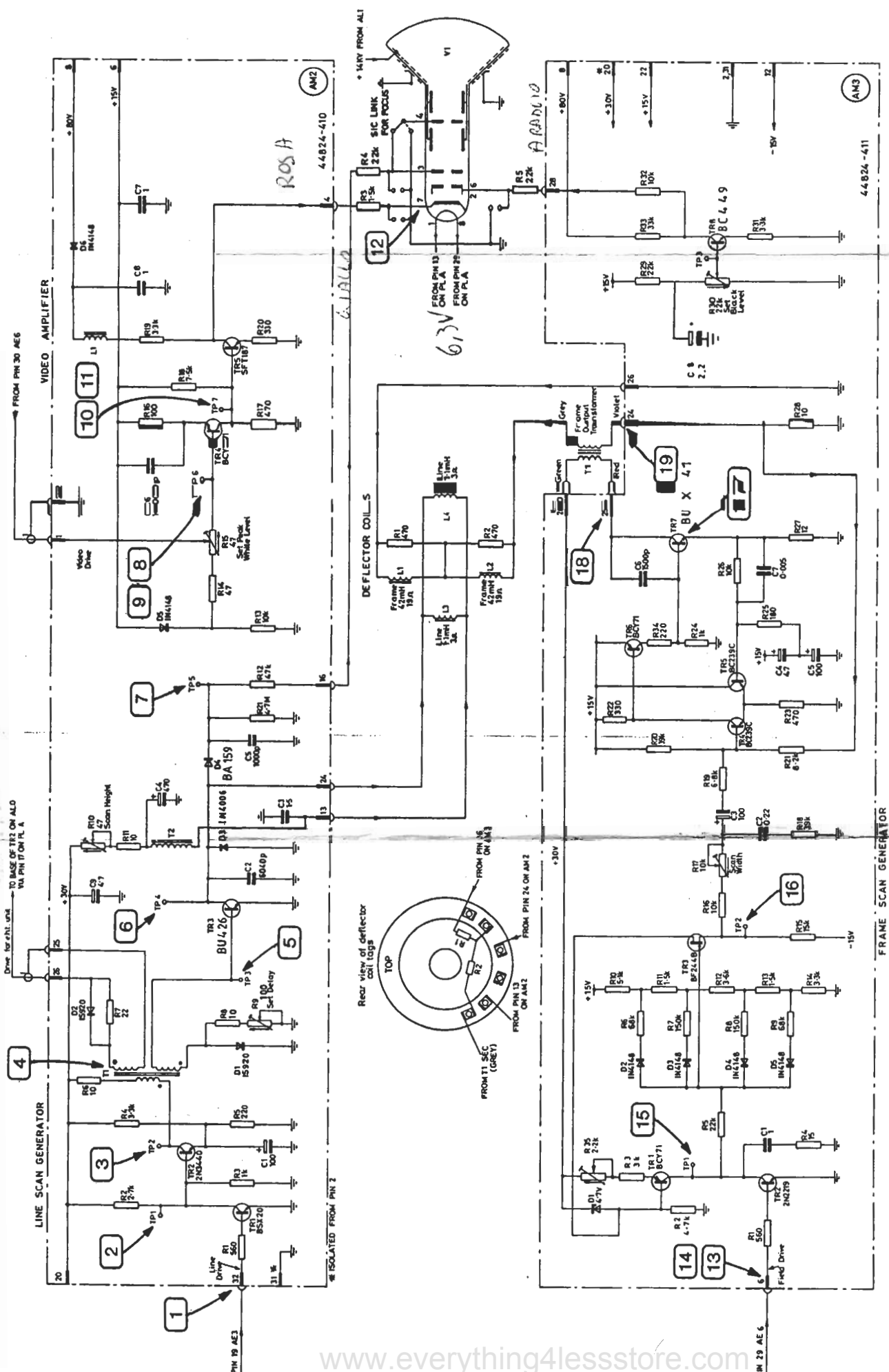
1 V/div

3 V



10

FIL HARRO
FIL DR PO



ROSA

6.11.11.0

6.13V

A RADIO

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