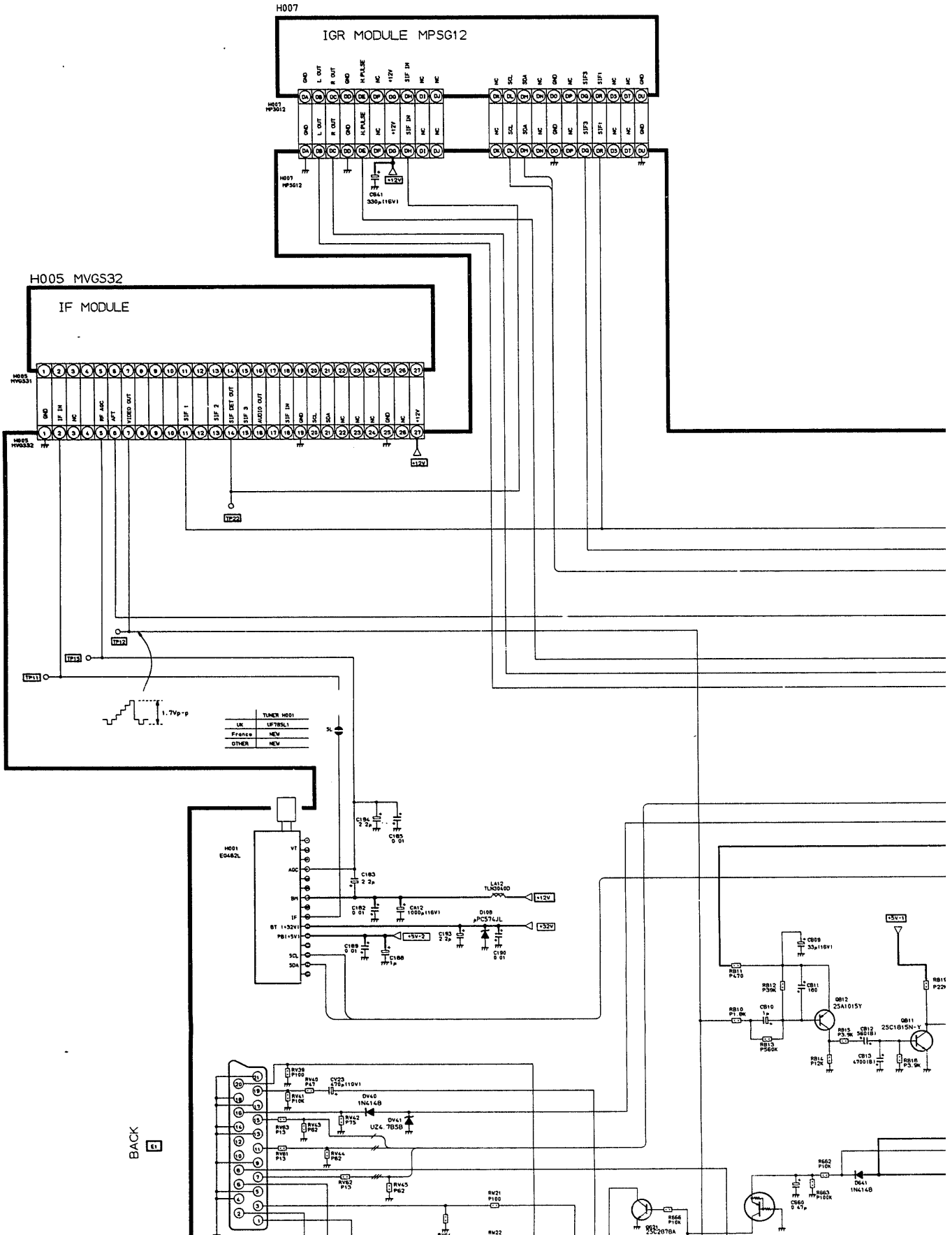
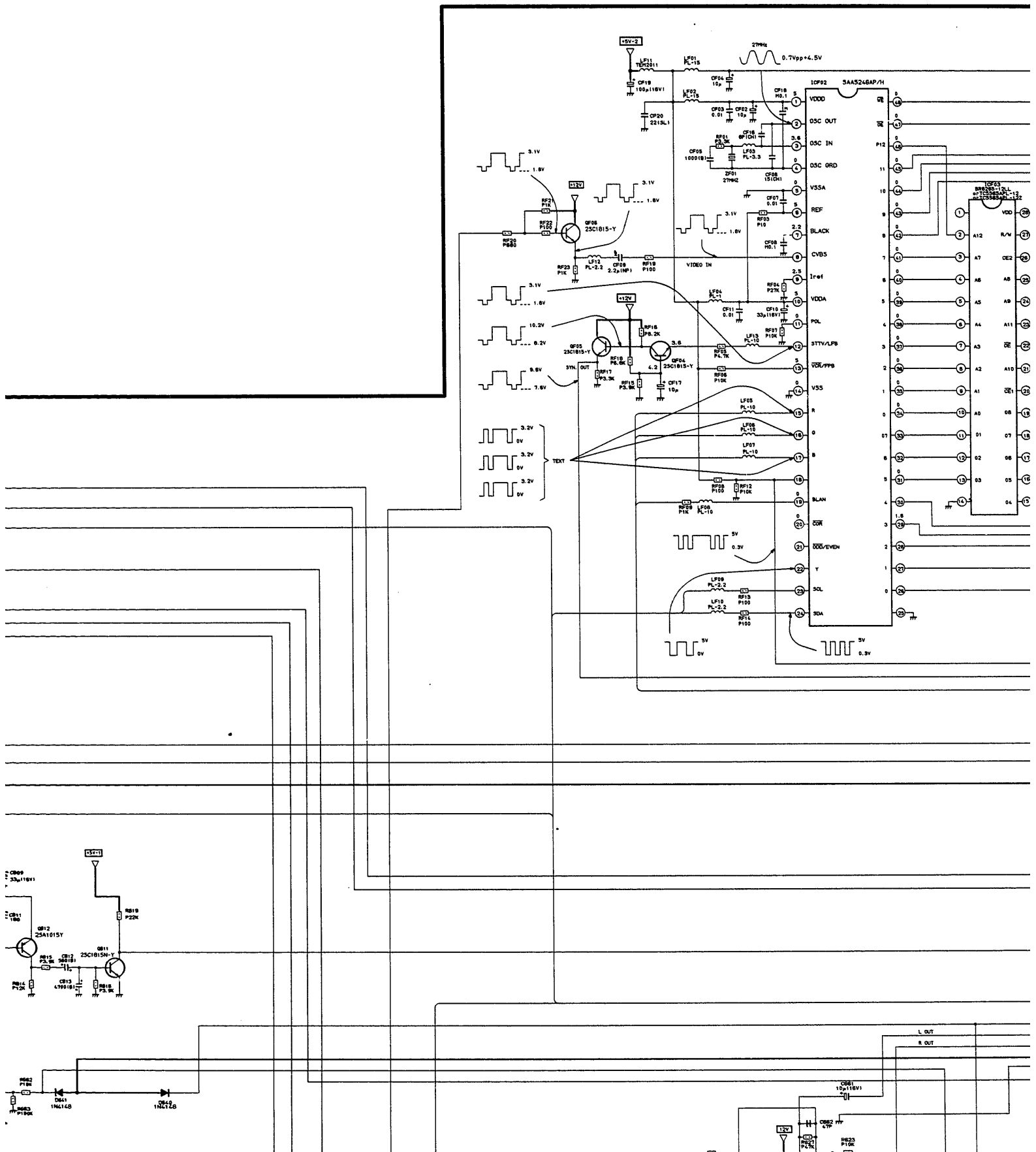
050-730

2835DS:2535DS

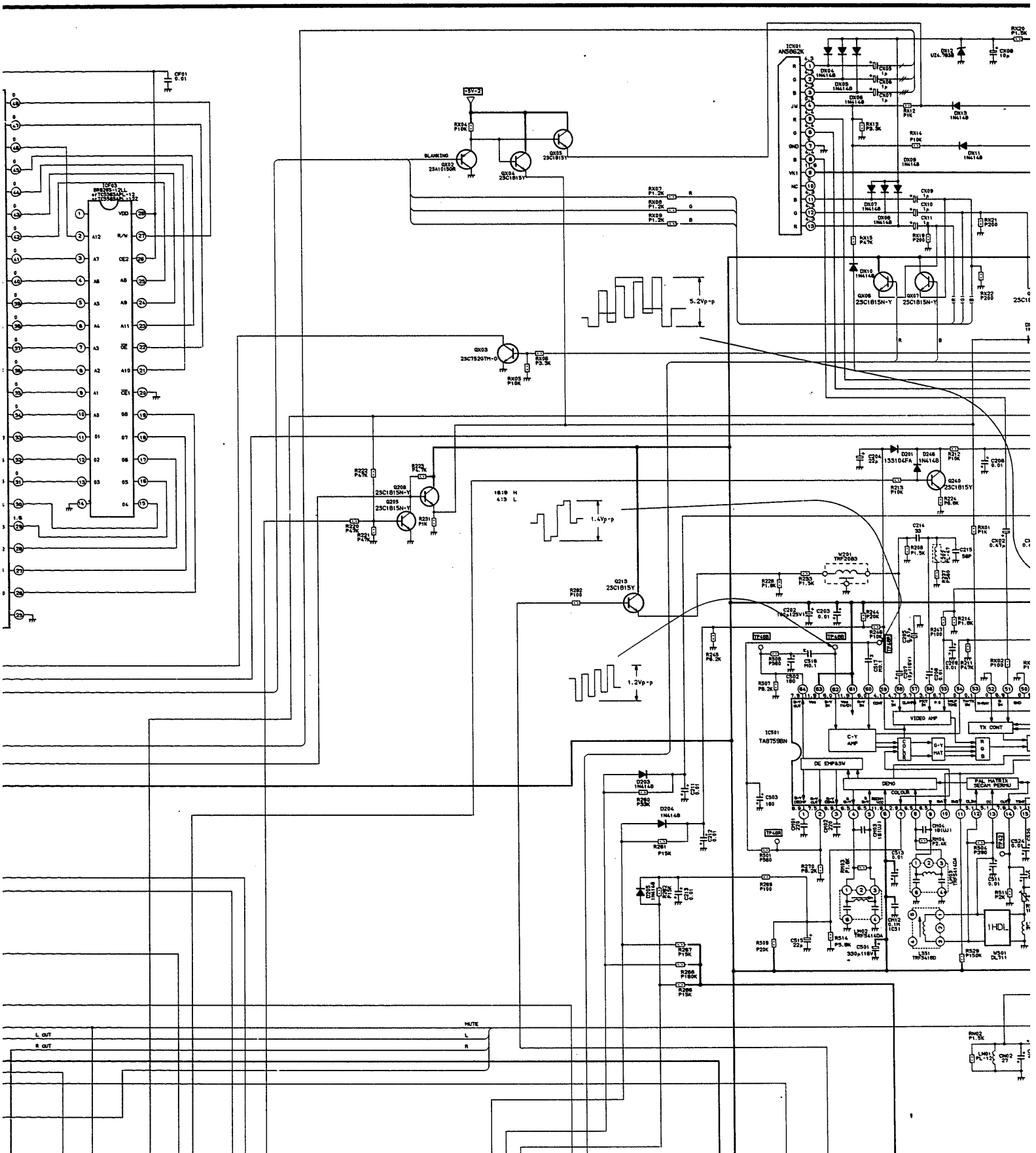
SCHEMATIC DIAGRAM (1



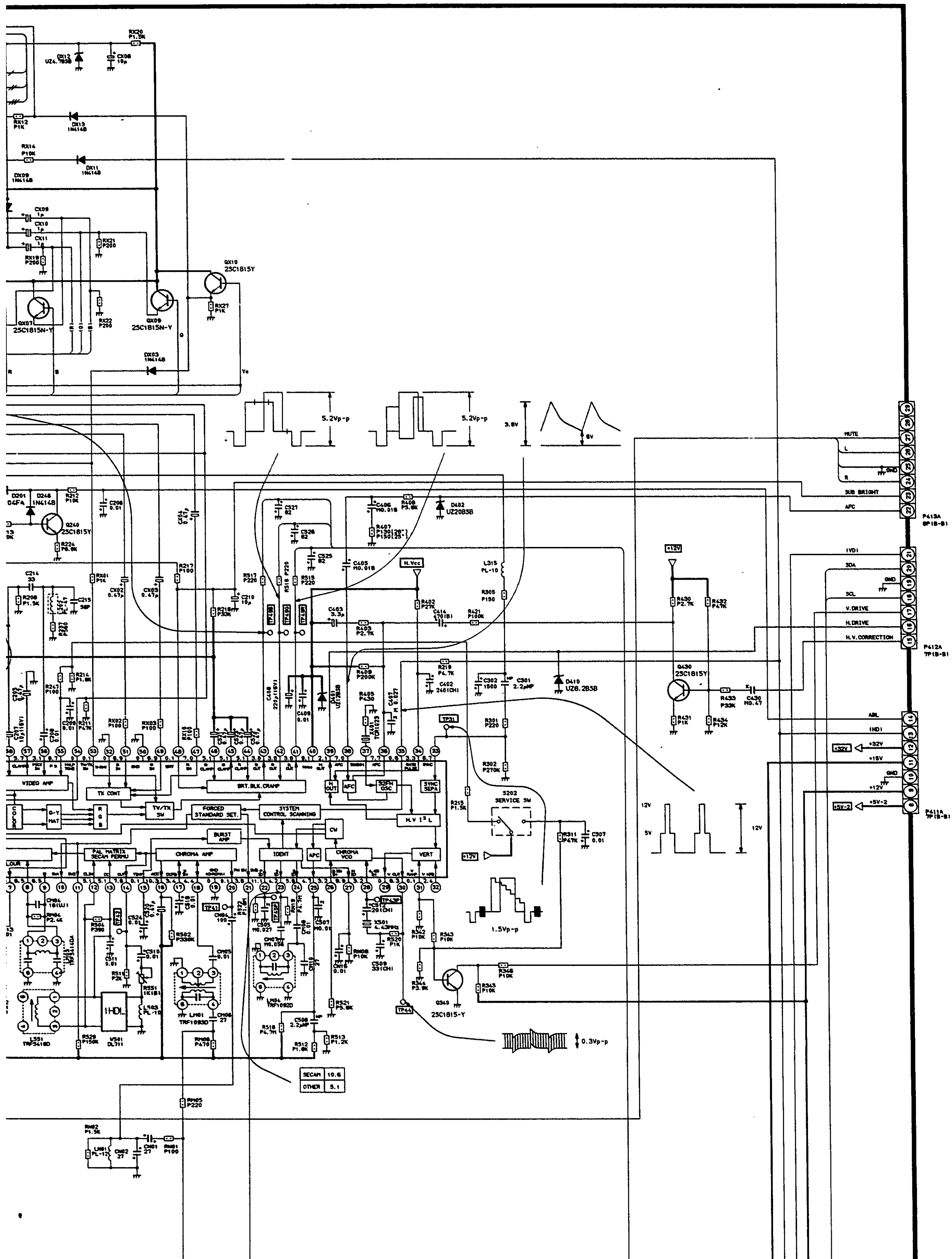
IAGRAM (1/2)


+5V-2
27MHz
0.7Vpp+4.5V
1CF02
5AA5246AP/H
VDDD
OSC OUT
OSC IN
OSC GRD
VSSA
REF
BLACK
CVBS
Iref
VDDA
POL
STTV/LFB
VCR/FPB
VSS
R
G
B
BLAN
CSR
ODD/EVEN
Y
SCL
SDA
VIDEO IN
TEXT
+12V
2SC1815-Y
+5V-1
2SA1015Y
2SC1815H-Y
L OUT
R OUT

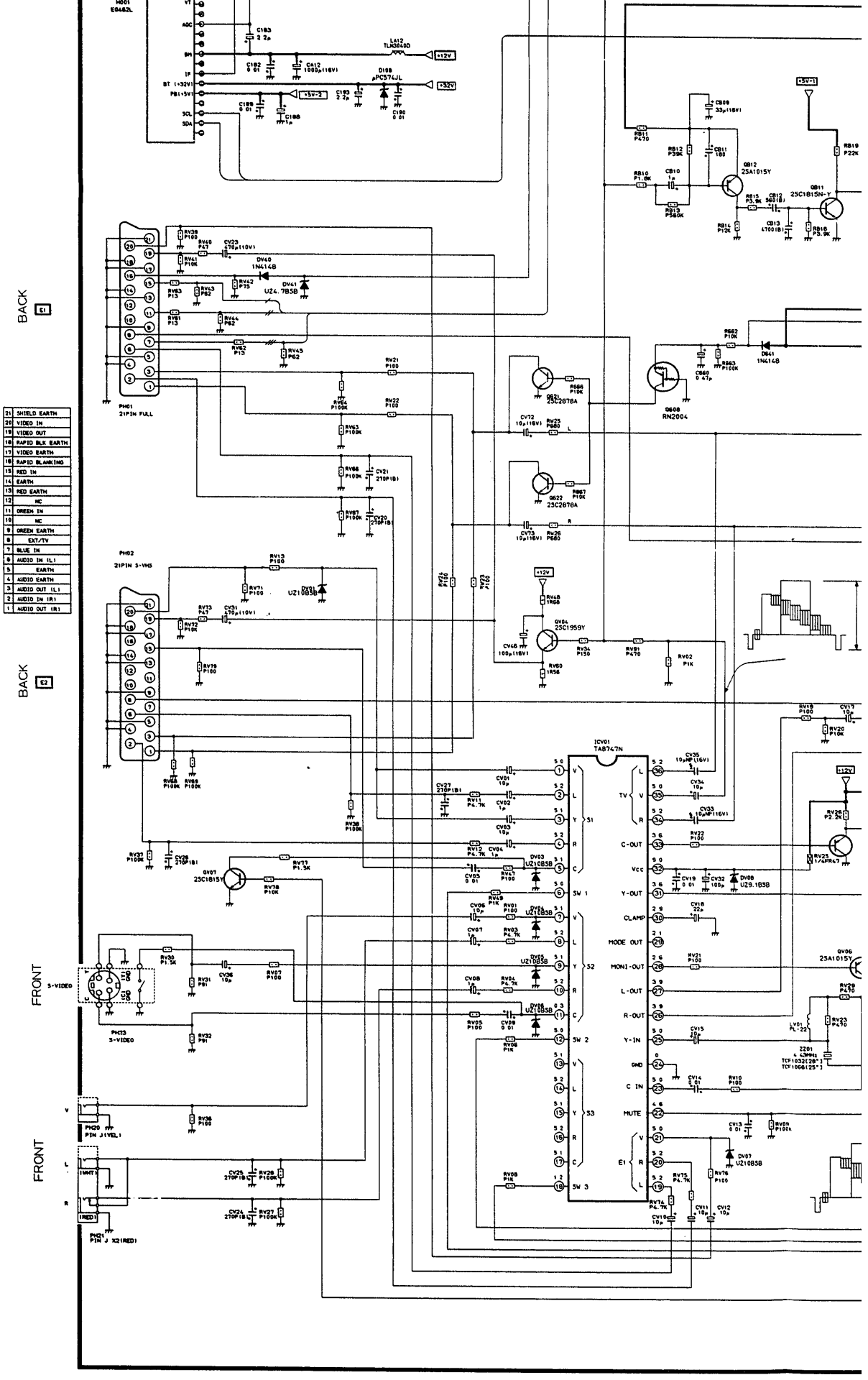
U902 SIGNAL BOARD PB4089[28"] PB4231[25"]

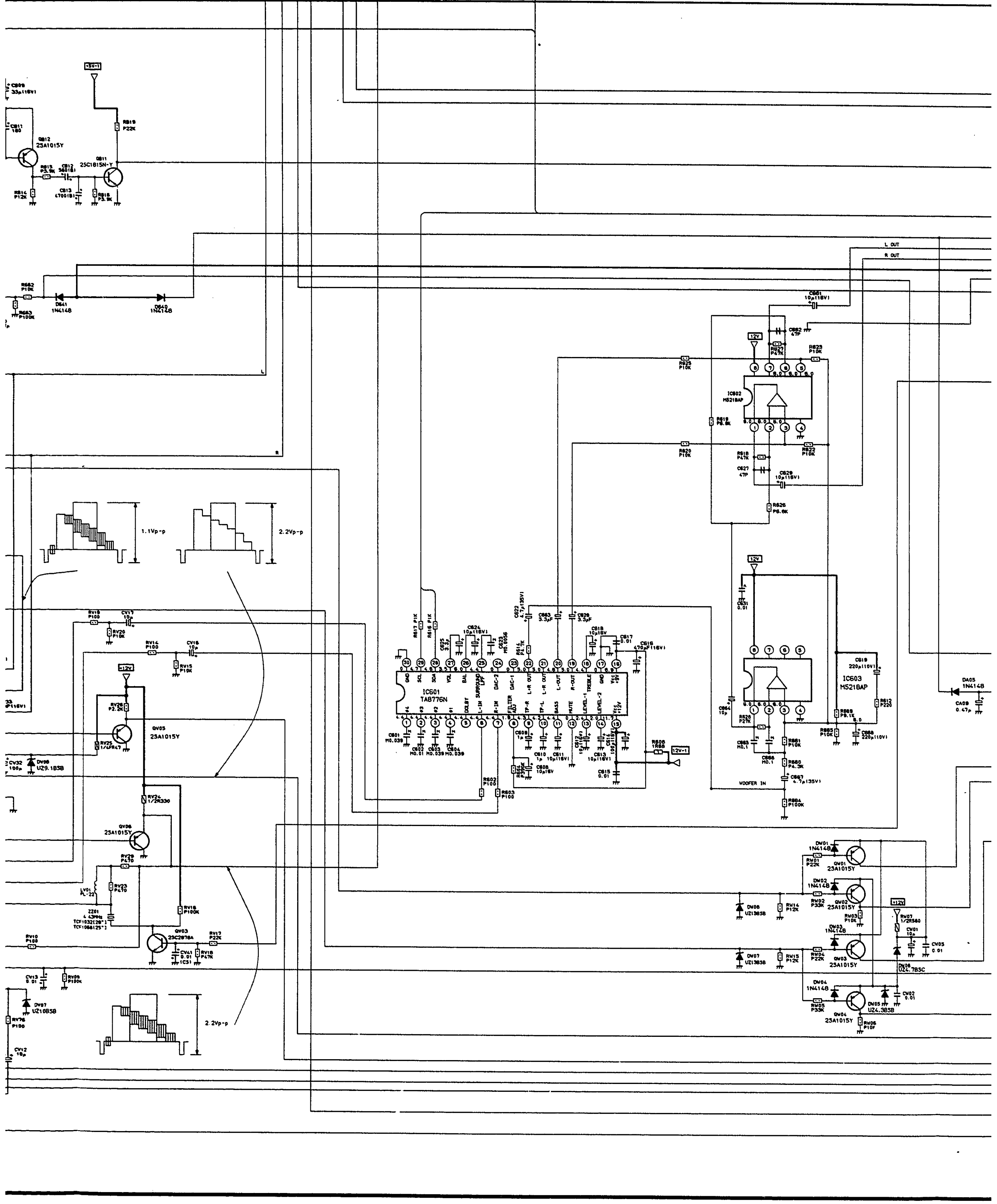


31[25"]

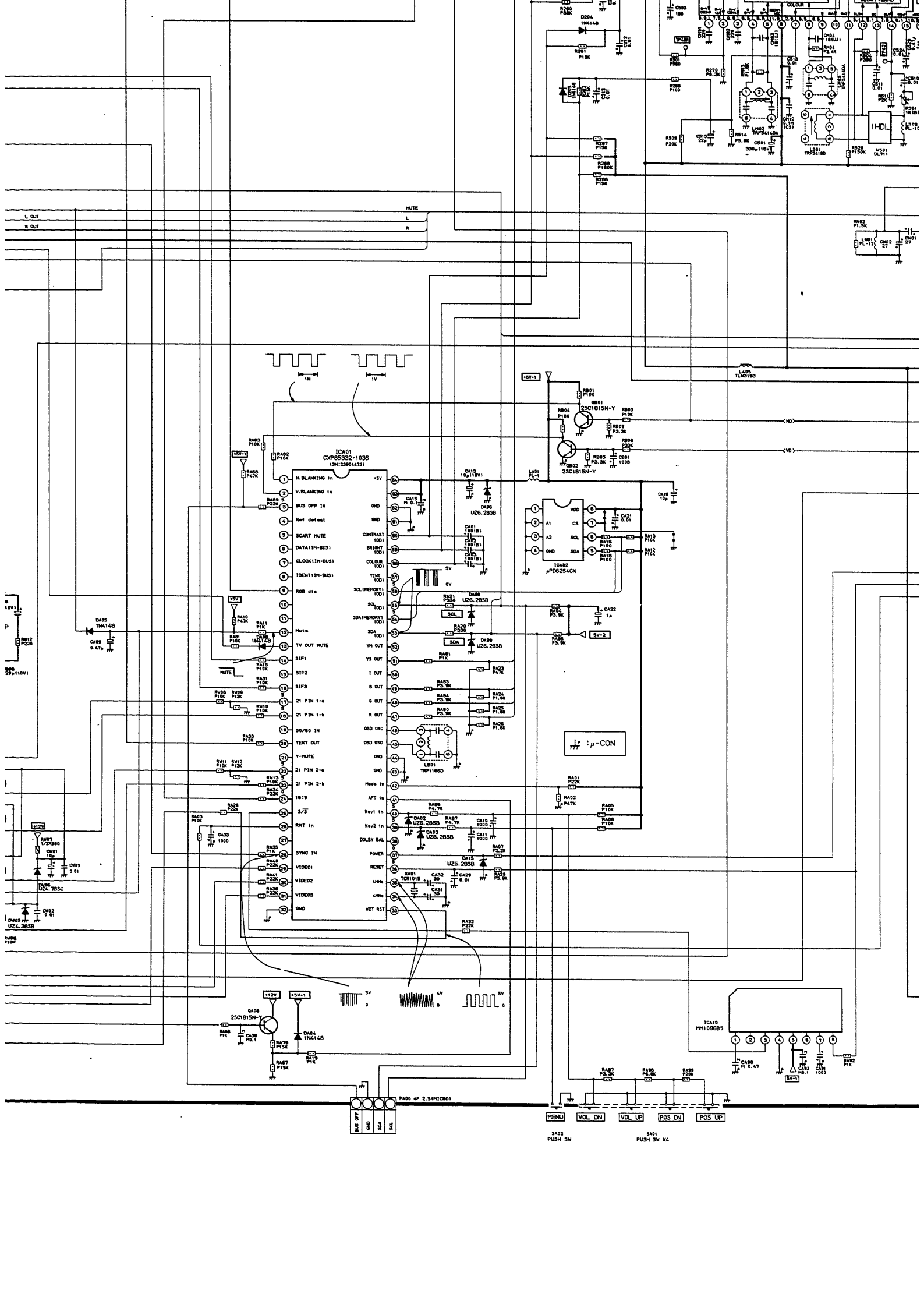


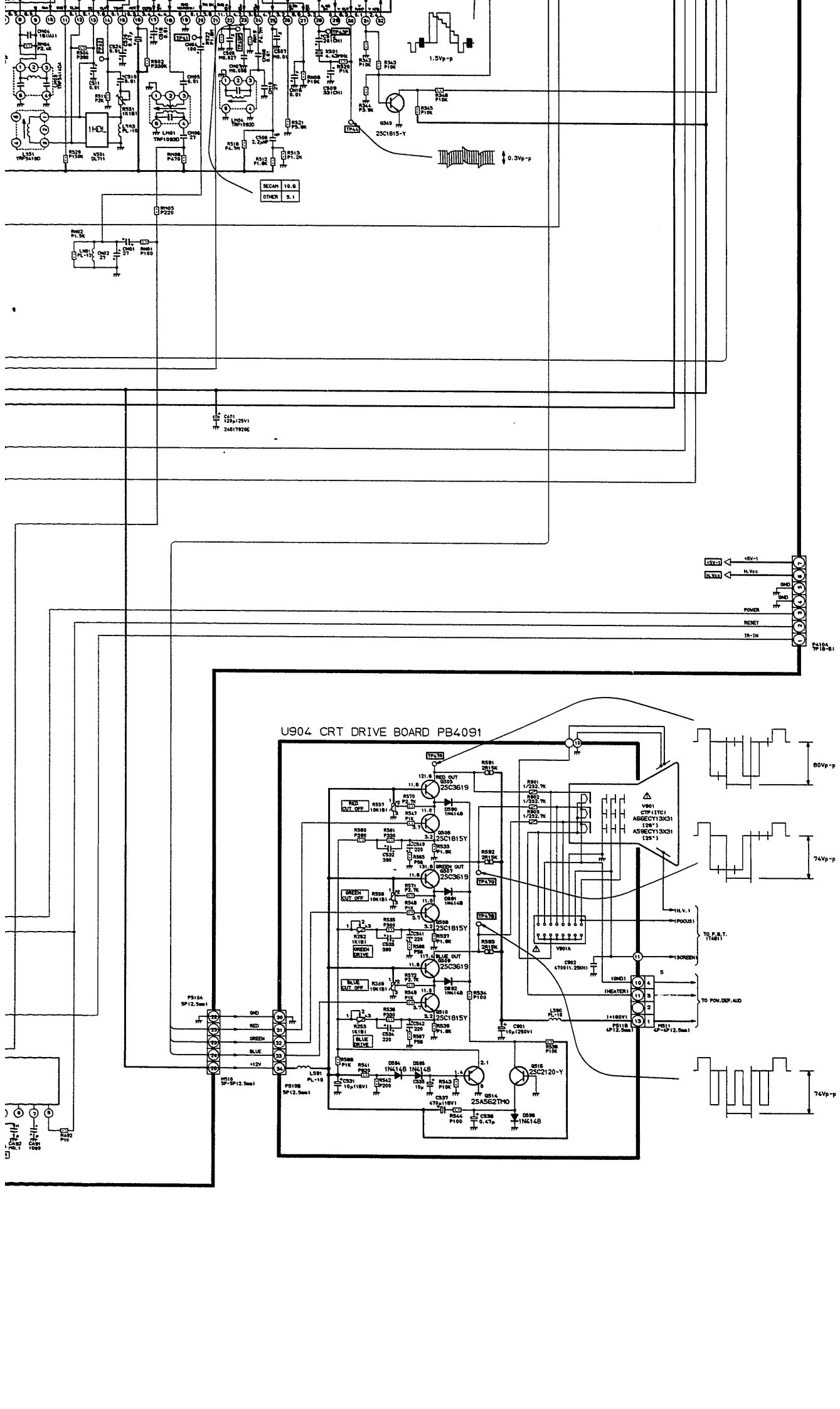
RX20 P1.5K
DX12 UZ4.7BSB
CX08 10μ
RX12 P1K
DX13 1N4148
RX14 P10K
DX11 1N4148
DX09 1N4148
CX09 1μ
CX10 1μ
CX11 1μ
RX19 P200
RX21 P200
QX10 2SC1815Y
RX27 P1K
QX07 2SC1815N-Y
RX22 P200
QX09 2SC1815N-Y
DX03 1N4148
5.2Vp-p
5.2Vp-p
3.8V
6V
MUTE
L
GND
R
SUB BRIGHT
AFC
P413A 8P(B-B)
D201 04FA
D246 1N4148
R212 P10K
C206 0.01
Q240 2SC1815Y
R224 P6.8K
CX04 0.47μ
C527 82
C526 82
C525 82
C406 M0.018
R408 P5.6K
D402 UZ20BSB
R407 P130[28"] P150[25"]
C405 M0.018
H.Vcc
L315 PL-10
+12V
R430 P2.7K
R432 P47K
(VD)
SDA
SCL
V.DRIVE
H.DRIVE
H.V.CORRECTION
P412A 7P(B-B)
C214 33
R208 P1.5K
C215 56P
R237 P560
RX01 P1K
CX02 0.47μ
CX03 0.47μ
R217 P100
R517 P220
R516 P220
R515 P220
C210 10μ
R218 P33K
TP49B
TP49G
TP49R
C403 3.3μ
R403 P2.7K
C414 470(B)
R421 P100K
R402 P27K
R305 P150
R409 P200K
R219 P4.7K
C402 240(CH)
C302 1500
C301 2.2μNP
D410 UZ6.2BSB
Q430 2SC1815Y
R433 P33K
C430 M0.47
R431 P1K
R434 P12K
ABL
(HD)
+32V
+15V
+12V
+5V-2
P411A 7P(B-B)
R214 P1.8K
R247 P100
C205 0.47μ
C207 10μ(16V)
C208 0.01
C209 0.01
R211 P47K
RX02 P100
RX03 P100
RX10 P100
C408 220μ(16V)
C409 0.01
D401 UZ12BSB
R405 P430
X401 TCR1023
C407 M 0.027
TP31
R301 P220
R302 P270K
VIDEO AMP
TX CONT
BRT.BLK.CRAMP
H OUT
AFC
32FH OSC
SYNC SEPA
R215 P1.5K
S202 SERVICE SW
R311 P47K
C307 0.01
12V
5V
12V
COLOR
G-Y MAT
R G B
TV/TX SW
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
H.V I²L
CW
BURST AMP
PAL MATRIX SECAM PERMU
CHROMA AMP
IDENT
APC
CHROMA VCO
VERT
COLOUR
+12V
CM04 181(UJ)
RM04 P2.4K
R504 P390
TP42
C524 0.01
C520 0.47μ
C510 0.01
C511 0.01
R511 P2K
R551 1K(B)
L503 PL-10
R502 P330K
CM05 0.01
TP41
CM06 100
R572 P1.8M
C505 M0.027
TP45P
RM19 P4.7M
CM07 M0.056
CM10 0.01
C507 M0.01
CM19 27
TP43P
C512 20(CH)
X501 4.43MHz
R520 P1K
RM08 P10K
CM16 0.01
C509 33(CH)
R342 P10K
R343 P10K
R344 P3.9K
Q340 2SC1815-Y
R346 P10K
R345 P10K
TP44
1.5Vp-p
0.3Vp-p
1HDL
L551 TRF5418D
R529 P150K
W501 DL711
LM01 TRF1093D
CM06 27
RM06 P470
LM04 TRF1092D
R521 P5.6K
R518 P4.7M
C508 2.2μNP
R512 P1.8K
R513 P1.2K
SECAM 10.6
OTHER 5.1
RM05 P220
RM02 P1.5K
LM81 PL-12
CM02 27
CM01 27
RM01 P100


BACK E1
BACK E2
FRONT
FRONT
21 SHIELD EARTH
20 VIDEO IN
19 VIDEO OUT
18 RAPID BLK EARTH
17 VIDEO EARTH
16 RAPID BLANKING
15 RED IN
14 EARTH
13 RED EARTH
12 NC
11 GREEN IN
10 NC
9 GREEN EARTH
8 EXT/TV
7 BLUE IN
6 AUDIO IN (L)
5 EARTH
4 AUDIO EARTH
3 AUDIO OUT (L)
2 AUDIO IN (R)
1 AUDIO OUT (R)
PH01 21PIN FULL
PH02 21PIN S-VHS
PH03 S-VIDEO
PH20 PIN J1YEL1
PH21 PIN J X21RED1
ICV01 TA8747N
TV
C-OUT
Vcc
Y-OUT
CLAMP
MODE OUT
MONI-OUT
L-OUT
R-OUT
Y-IN
GND
C IN
MUTE
+12V
+5V-1
+5V-2
+32V



IC601
TA8776N
IC602
M5218AP
IC603
M5218AP
12V
12V-1
+5V-1
L OUT
R OUT
WOOFER IN
1.1Vp-p
2.2Vp-p
2.2Vp-p
QV05
2SA1015Y
QV06
2SA1015Y
QV03
2SC2878A
Q812
2SA1015Y
Q811
2SC1815N-Y
D641
1N4148
D640
1N4148
QW01
2SA1015Y
QW02
2SA1015Y
QW03
2SA1015Y
QW04
2SA1015Y
DA05
1N4148


L OUT
R OUT
MUTE
L
R
ICA01
CXP85332-103S
H.BLANKING in
V.BLANKING in
BUS OFF IN
Ref defect
SCART MUTE
DATA(IM-BUS)
CLOCK(IM-BUS)
IDENT(IM-BUS)
RGB dis
Mute
TV OUT MUTE
SIF1
SIF2
SIF3
21 PIN 1-a
21 PIN 1-b
50/60 IN
TEXT OUT
Y-MUTE
21 PIN 2-a
21 PIN 2-b
16:9
S/S
RMT in
SYNC IN
VIDEO1
VIDEO2
VIDEO3
GND
+5V
GND
GND
CONTRAST
BRIGHT
COLOUR
TINT
SCL(MEMORY)
SDA(MEMORY)
Yh OUT
Ys OUT
I OUT
B OUT
G OUT
R OUT
OSD OSC
OSD OSC
GND
GND
Mode in
AFT in
Key1 in
Key2 in
DOLBY BAL
POWER
RESET
4MHz
4MHz
WDT RST
ICA02
μPD6254CX
VDD
CS
SCL
SDA
A1
A2
GND
ICA10
MM1096B5
QB01
2SC1815N-Y
QB02
2SC1815N-Y
QA08
2SC1815N-Y
XA01
TCR1015
LB01
TRF1166D
L401
TLN3193
L405
TLN3193
L402
TLN3193
L501
TRPS4180
L502
TRPS4140A
T501
TRPS4140A
W501
DL711
1HDL
HD
VD
SCL
SDA
+5V-1
+5V-2
+12V
μ-CON
MENU
VOL DN
VOL UP
POS DN
POS UP
SA02
PUSH SW
SA01
PUSH SW X4
PA09 4P 2.5(MICRO)
RKS OFF
GND
SDA
SCL


U904 CRT DRIVE BOARD PB4091
1.5Vp-p
0.3Vp-p
SECAM 10.6
OTHER 5.1
2SC1815-Y
+5V-1
H.Vcc
GND
POWER
RESET
IR-IN
RED
GREEN
BLUE
+12V
80Vp-p
74Vp-p
74Vp-p
2SC3619
2SC1815Y
2SC2120-Y
2SA562TM0
1N4148
CTP(1TC) A56ECY13X31
TO F.B.T.
TO POW.DEF.AUD

2835DS:2535DS

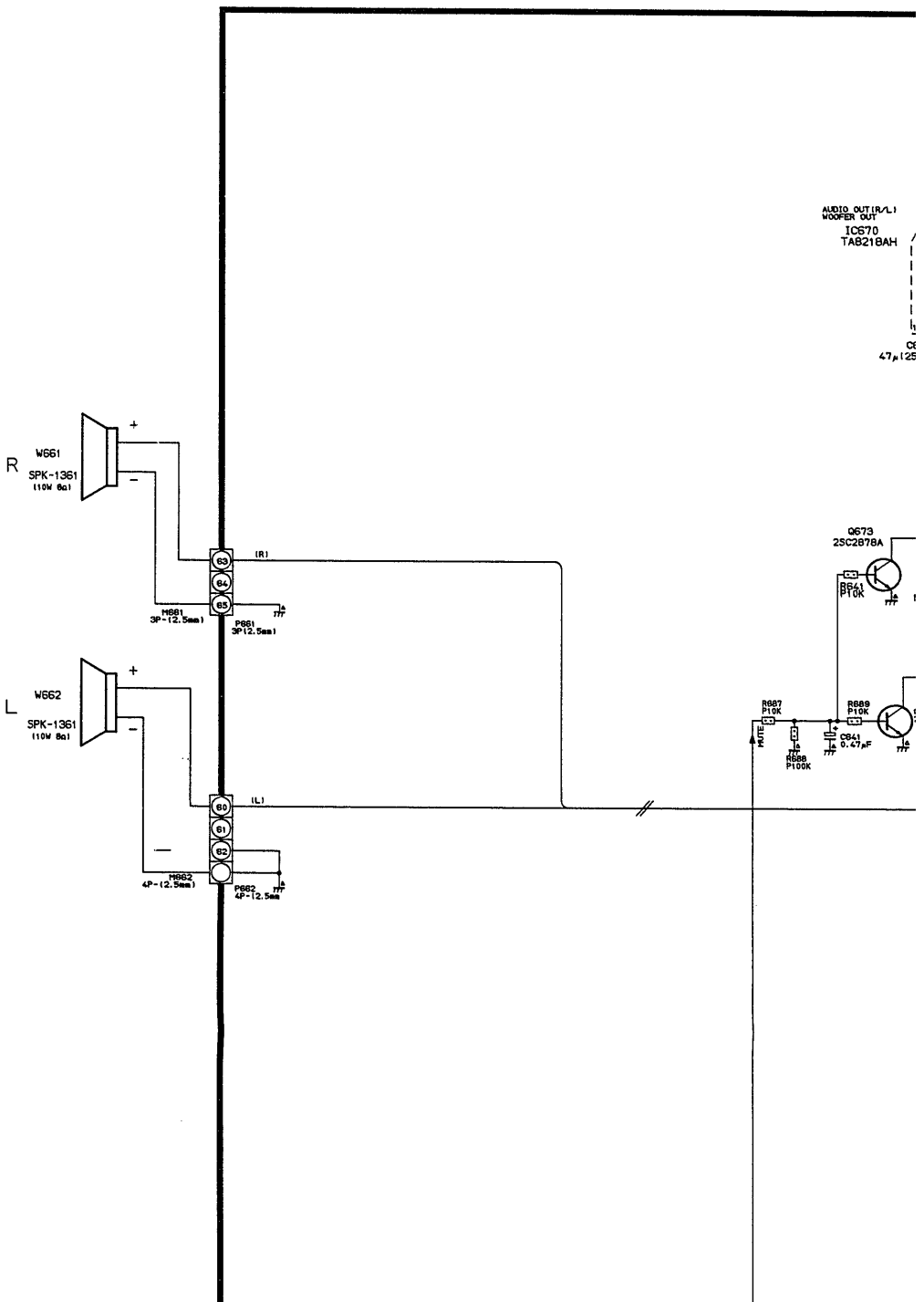
SCHEMATIC DIAGRAM (2/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol mus
approved type and must be mounted as the original. This will e
adhered to during manufacture will be maintained following ar

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance d
2. (−) or ground lead of instruments should be connected t
shematic on checking Non-isolated circuit surrounded b
to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and
the best picture, making sure that the Contrast, Brightn
near to their mid-positions.
5. The waveforms were taken using a standard colour bar
wide band oscilloscope via a low capacity probe.



onal Hazard Symbol must, if changed, be replaced by an
s the original. This will ensure that the safety standards
e maintained following any servicing procedure.

ND WAVEFORMS

using a high impedance digital voltmeter.
its should be connected to the ground marked (⊥) in the
ted circuit surrounded by mark but should be connected
hecking isolated circuit.
much as ±20%.
Brightness, Contrast and Colour controls are adjusted for
hat the Contrast, Brightness and Colour controls are set

g a standard colour bar signal and were observed using a
capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

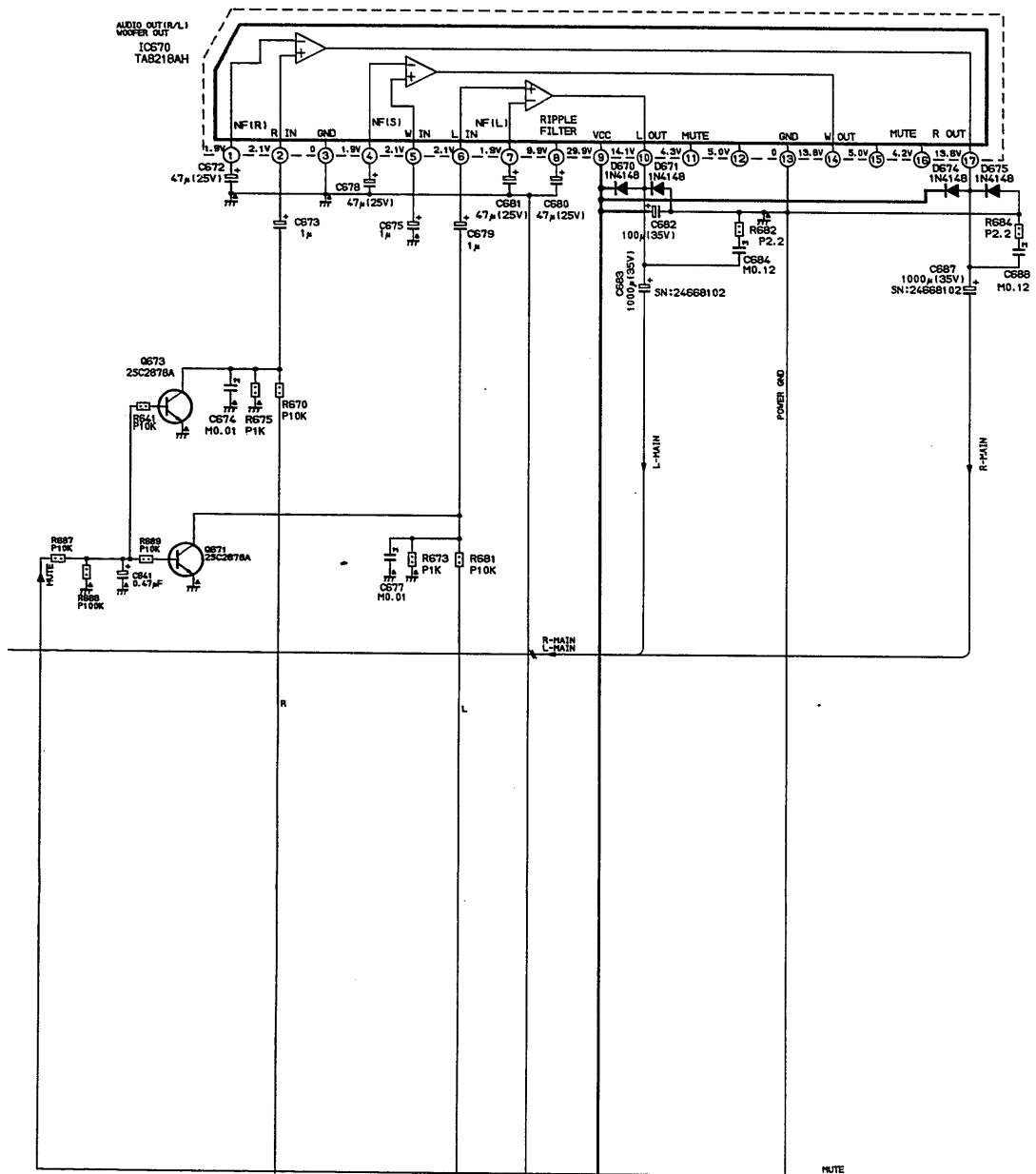
EXPRESSION

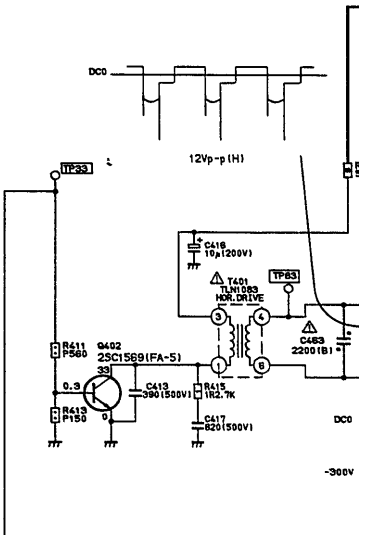
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

1. ⊥: Non isolated ground, ⏚ : Isolated ground.





RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

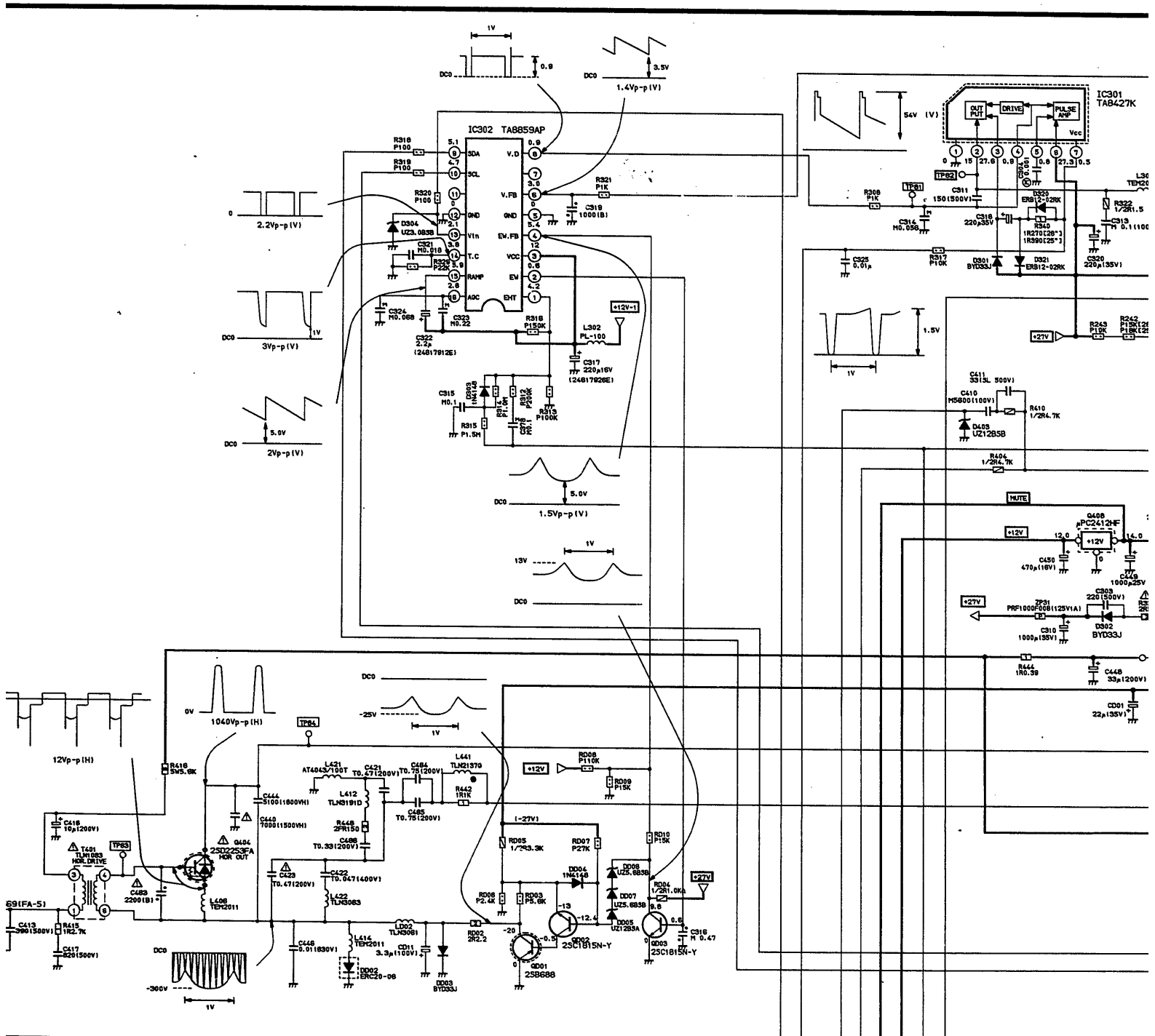
Rating Markings:

WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	1
2W	2

expressed in

expressed in

32[25"]



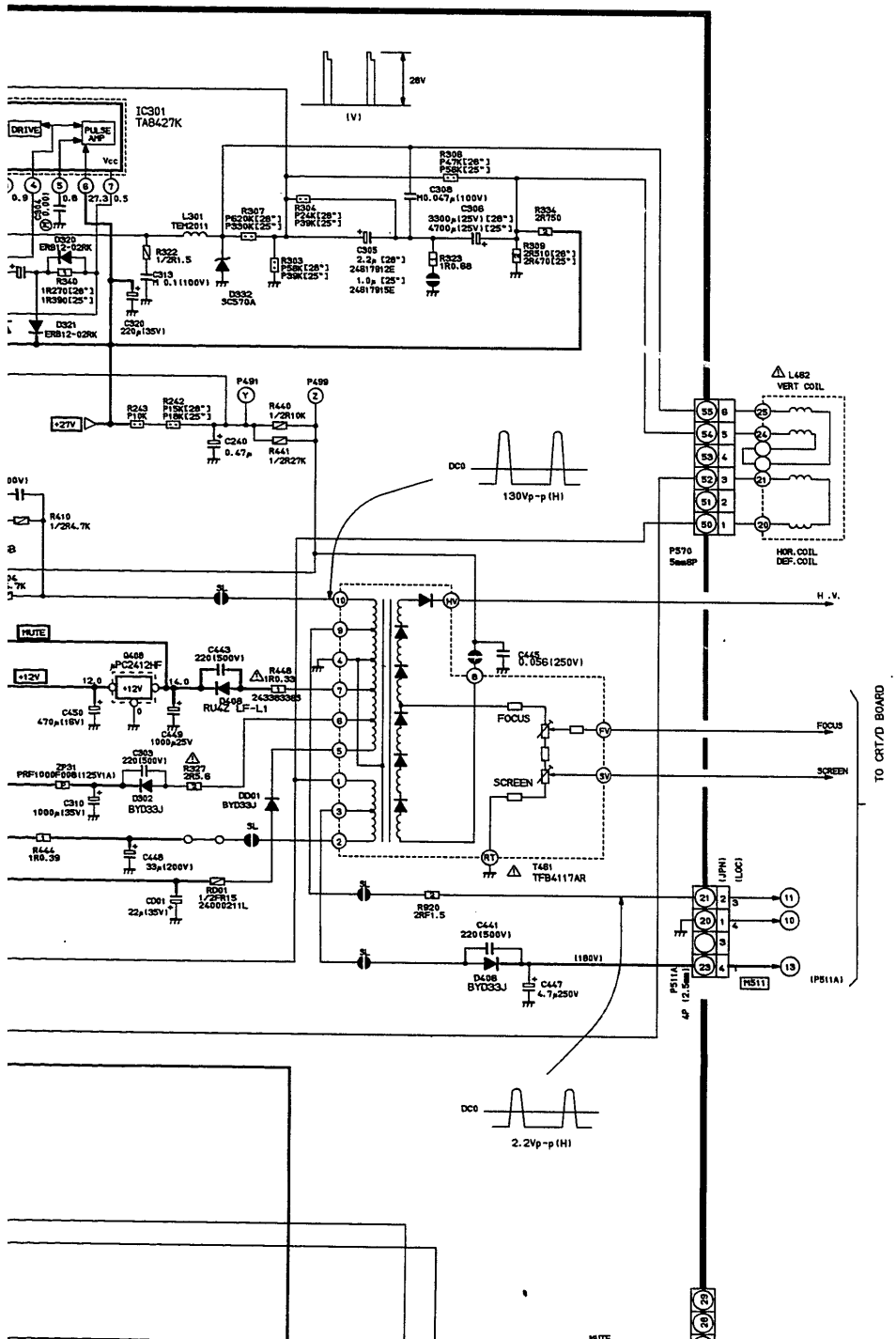
CAPACITORS

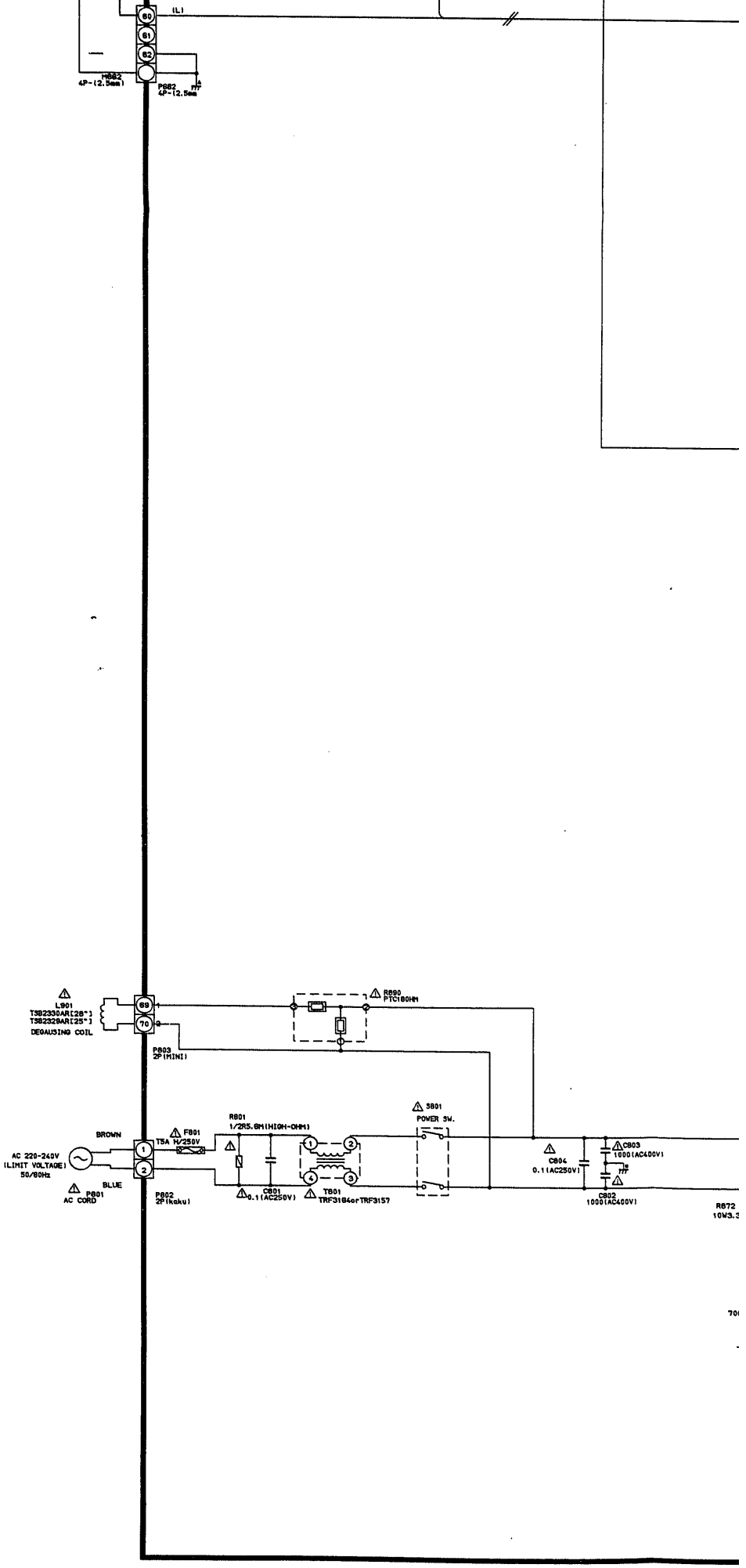
Rating Markings:

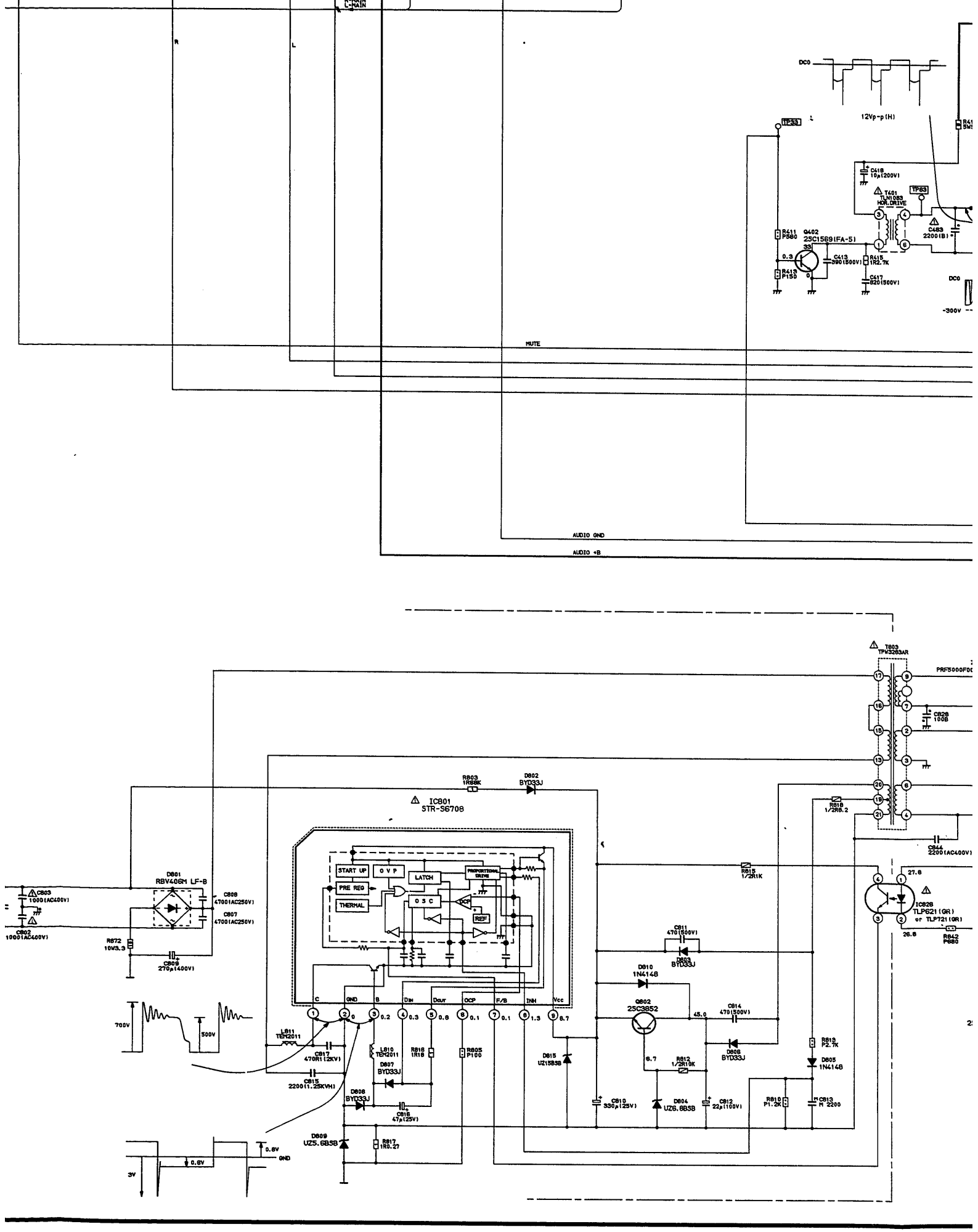
Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Variable Capacitor	
Other	

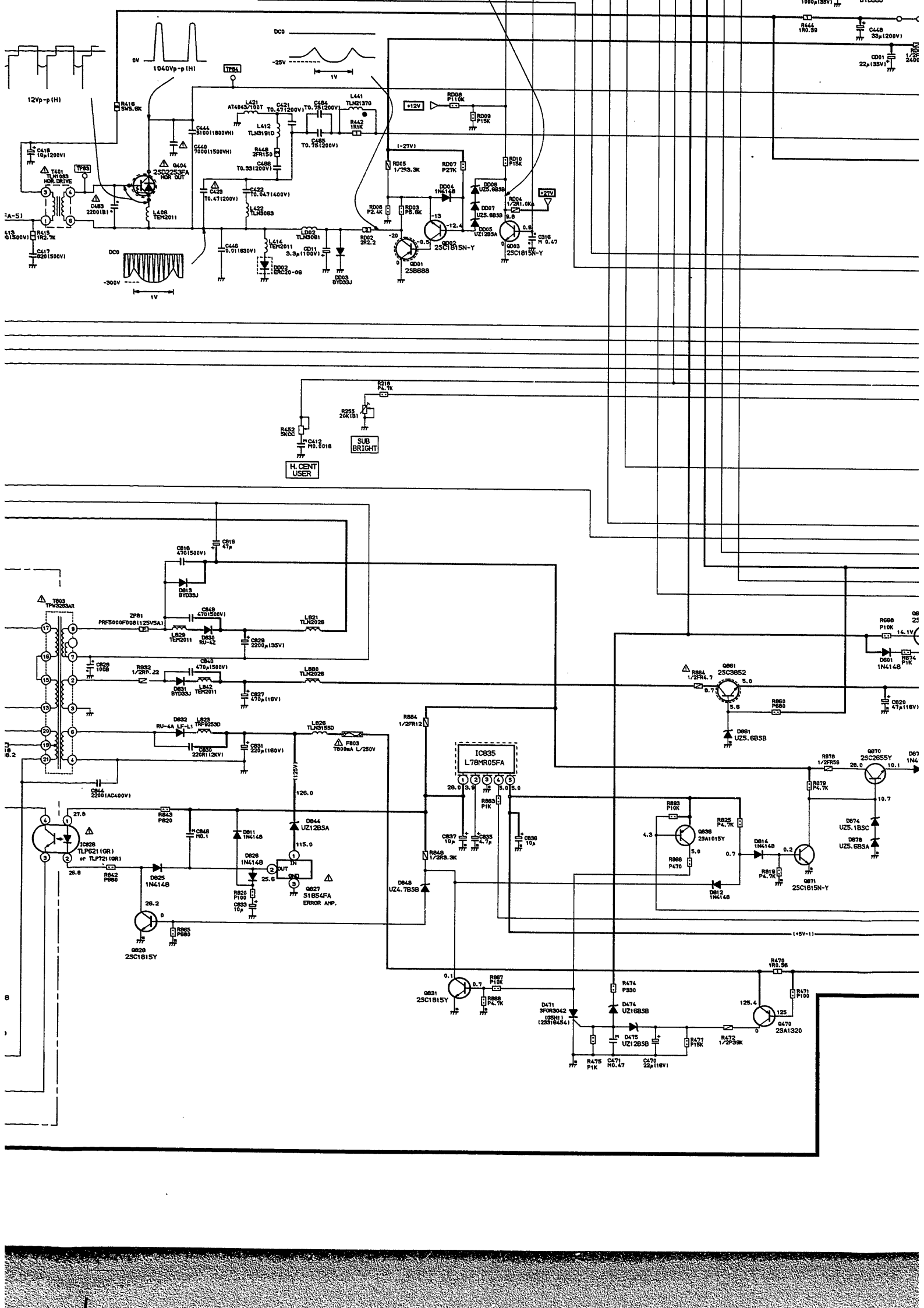
MARK
1
2

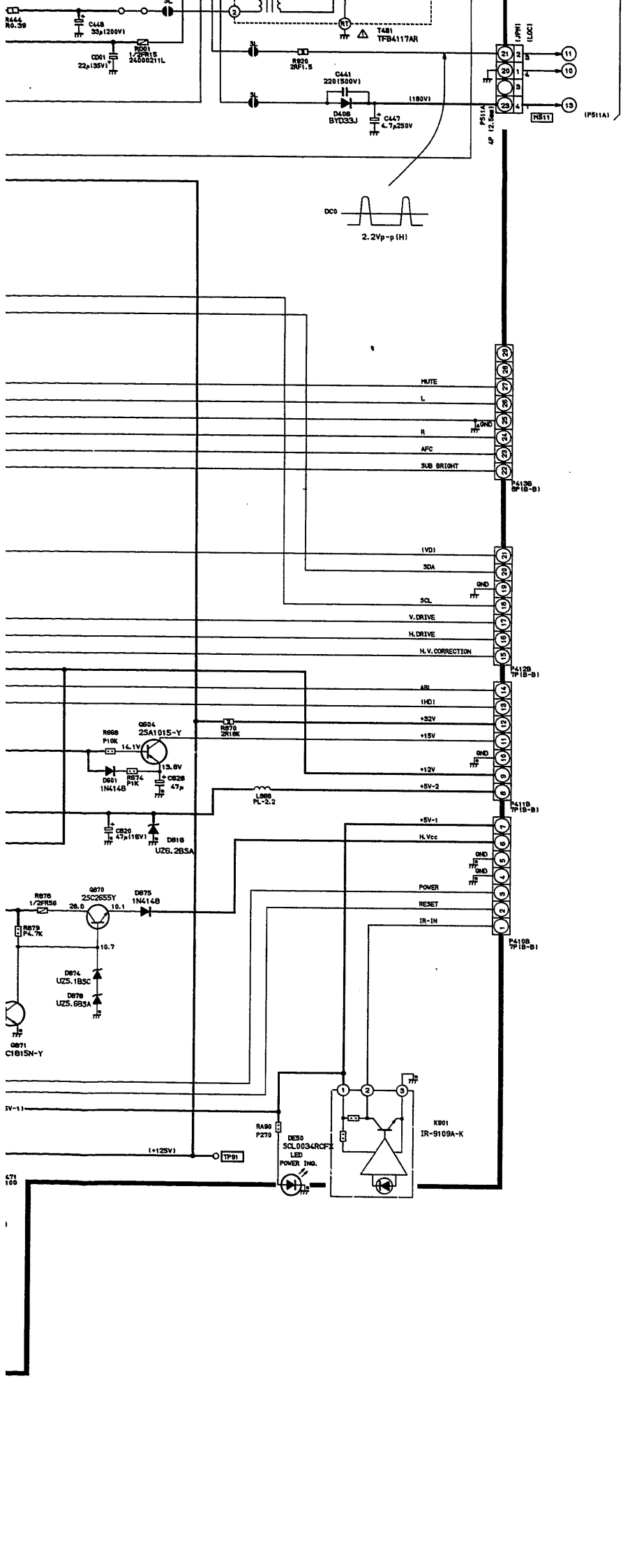
WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25




(L)
60
61
62
P882
4P-(2.5mm)
L901
T3B2330AR[28"]
T3B2328AR[25"]
DEGAUSING COIL
69
70
P803
2P(MINI)
R890
PTC180HM
R801
1/2R5.6M(HIGH-OHM)
S801
POWER SW.
BROWN
F801
T5A H/250V
AC 220-240V
(LIMIT VOLTAGE)
50/60Hz
BLUE
P801
AC CORD
P802
2P(Koku)
C801
0.1(AC250V)
T801
TRF3184orTRF3157
C804
0.1(AC250V)
C803
1000(AC400V)
C802
1000(AC400V)
R872


MUTE
AUDIO GND
AUDIO +B
IC801
STR-S6708
START UP
O V P
LATCH
PRE REG
THERMAL
O S C
REF
PROPORTIONAL DRIVE
C
GND
B
Din
Dout
OCP
F/B
INH
Vcc
D801
RBV406M LF-B
T803
TPW3283AR
IC826
TLP621(GR)
or TLP721(GR)
Q802
2SC3852
Q402
2SC1569(FA-5)
T401
HOR.DRIVE
D802
BYD33J
D803
BYD33J
D804
UZ6.8BSB
D805
1N4148
D806
BYD33J
D807
BYD33J
D808
BYD33J
D809
UZ5.6BSB
D810
1N4148
D815
UZ15BSB
12Vp-p(H)
DC0
-300V
700V
500V
0.8V
GND
3V


12Vp-p (H)
0V
1040Vp-p (H)
TP84
DC0
-25V
1V
R416 5W5.6K
C444 5100(1800VH)
C440 7000(1500VH)
L421 AT4043/100T
L412 TLN3191D
C421 T0.47(200V)
C494 T0.75(200V)
L441 TLN2137G
R442 1R1K
C485 T0.75(200V)
R448 2FR150
C498 T0.33(200V)
+12V
RD08 P110K
RD09 P15K
(-27V)
RD05 1/2R3.3K
RD07 P27K
RD10 P15K
C418 10μ(200V)
T401 TLN1083 HOR. DRIVE
TP83
Q404 2SD2253FA HOR. OUT
C428 T0.47(200V)
C422 T0.0471(400V)
C423 T0.47(200V)
L422 TLN3083
L408 TEN2011
DD04 1N4148
DD08 UZ5.6B3B
DD07 UZ5.6B3B
RD04 1/2R1.0K
+27V
RD06 P2.4K
RD03 P5.6K
-13
-12.4
9.6
0.8
C316 M 0.47
QD02 2SC1815N-Y
QD03 2SC1815N-Y
-20
-0.5
0
QD01 2SB688
C415 1R2.7K
C417 820(500V)
C446 0.01(630V)
L414 TEN2011
3.3μ(100V)
CD11
LD02 TLN3081
RD02 2R2.2
DD02 ERC20-06
DD03 BYD33J
-300V
1V
R218 P4.7K
R255 20K(B)
R452 5KCC
C412 M0.0018
SUB BRIGHT
H. CENT USER
T803 TPW3283AR
ZP81 PRF5000F008(125V5A)
C819 47μ
C818 470(500V)
D813 BYD33J
C849 470(500V)
L829 TEN2011
D830 RU-4Z
L821 TLN2026
C829 2200μ(35V)
C826 100B
R832 1/2R0.22
C848 470μ(500V)
D831 BYD33J
L842 TEN2011
L880 TLN2026
C827 470μ(16V)
D832 RU-4A
L823 TRF2530
C830 220R(12KV)
C831 220μ(160V)
L826 TLN3155D
F803 T800mA L/250V
C844 2200(AC400V)
125V
126.0
R884 1/2FR4.7
Q861 2SC3852
R860 P680
D861 UZ5.6B3B
C820 47μ(16V)
R878 1/2FR56
Q870 2SC2655Y
R879 P4.7K
D874 UZ5.1B3C
D876 UZ5.6B3A
R893 P10K
R825 P4.7K
Q836 2SA1015Y
R866 P470
D814 1N4148
R819 P4.7K
Q871 2SC1815N-Y
D812 1N4148
R864 1/2FR12
IC835 L78MR05FA
R863 P1K
C837 10μ
C835 4.7μ
C836 10μ
R849 1/2R3.3K
D848 UZ4.7B3B
R843 P820
C845 M0.1
D844 UZ12B3A
115.0
D811 1N4148
D826 1N4148
IC828 TLP621(GR) or TLP721(GR)
R842 P680
D825 1N4148
R820 P100
C833 10μ
IN
OUT
GND
Q827 S1854FA ERROR AMP.
Q828 2SC1815Y
R865 P680
(+5V-1)
Q831 2SC1815Y
R867 P10K
R868 P4.7K
R474 P330
D474 UZ16B3B
D475 UZ12B5B
D471 SPOR3042 (3SH1) (283164541)
R475 P1K
C471 M0.47
C470 22μ(16V)
R477 P15K
R472 1/2P39K
R470 1R0.56
R471 P100
Q870 2SA1320


T481
TFB4117AR
C441
220(500V)
D408
BYD33J
C447
4.7μ250V
(180V)
DC0
2.2Vp-p (H)
MUTE
L
R
AFC
SUB BRIGHT
(VD)
SDA
SCL
V.DRIVE
H.DRIVE
H.V.CORRECTION
ABL
(HD)
+32V
+15V
+12V
+5V-2
+5V-1
H.Vcc
POWER
RESET
IR-IN
Q804
2SA1015-Y
D801
1N4148
L888
PL-2.2
D818
UZ6.2BSA
Q870
2SC2655Y
D875
1N4148
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UZ5.1BSC
D876
UZ5.6BSA
Q871
C1815N-Y
K901
IR-9109A-K
DE50
SCL0034RCFX
LED
POWER IND.
(+125V)
TP91

070 730