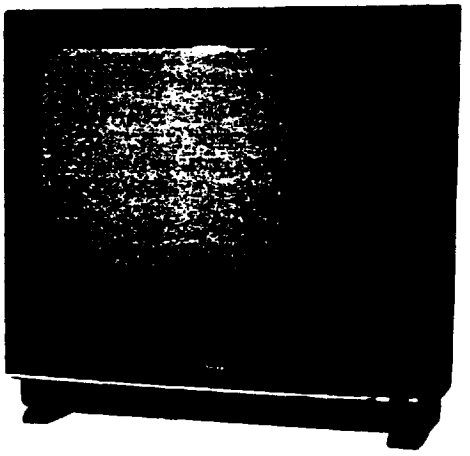
SERVICE DATA
FILE NO. 050-027
11 SYSTEM

TOSHIBA
COLOUR TELEVISION
289X6M

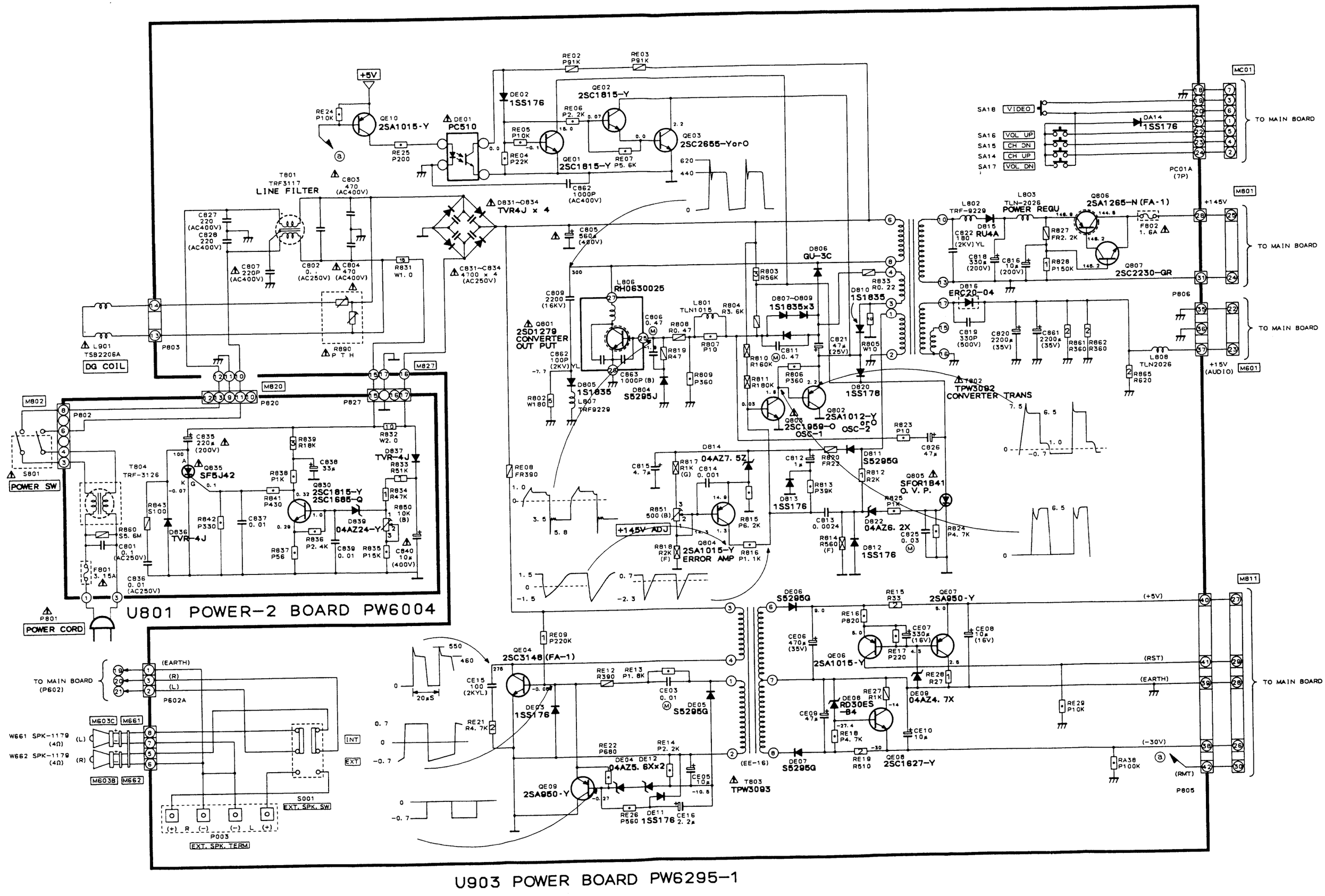


SPECIFICATIONS

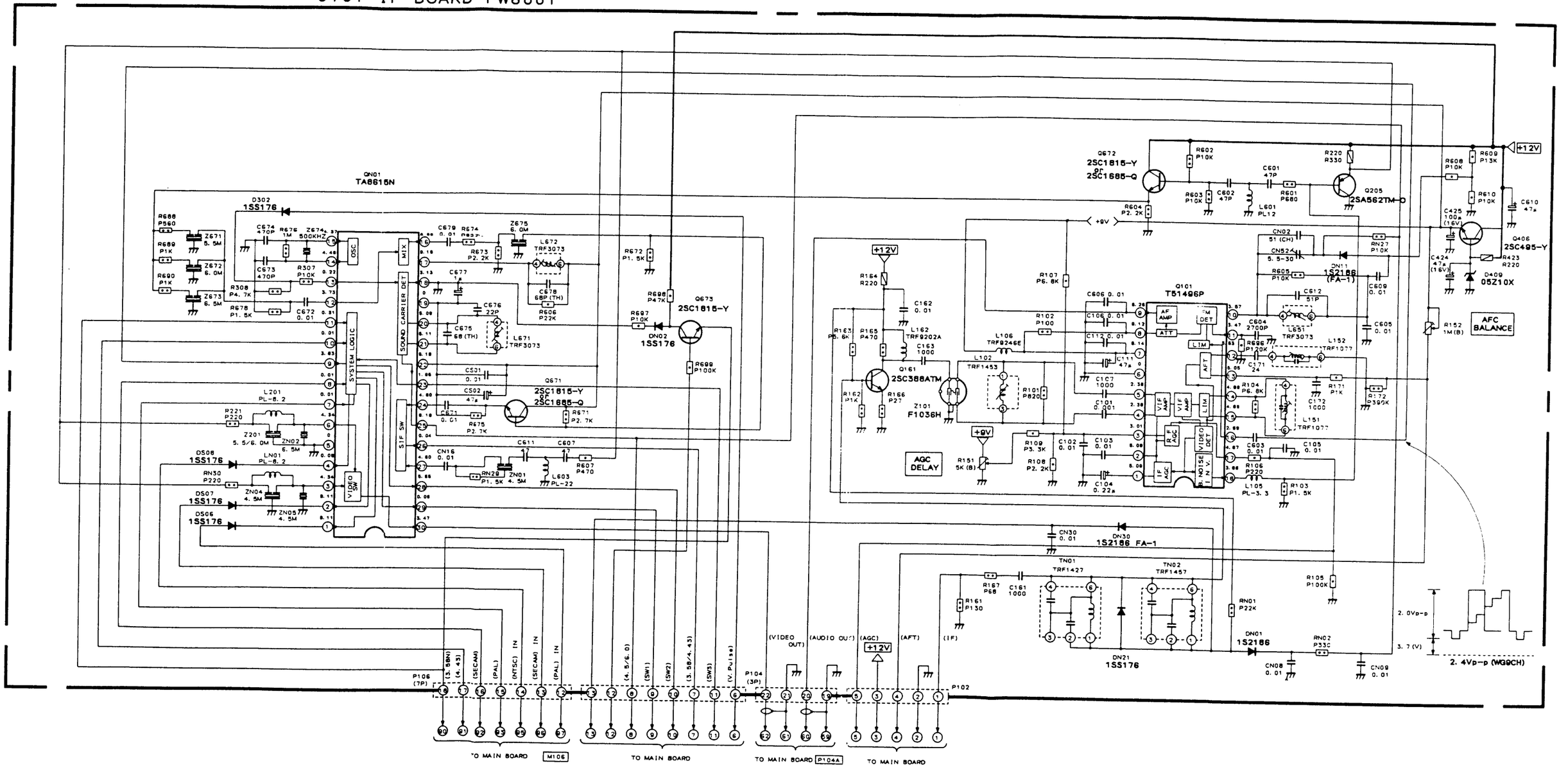
Power Input Rating:	152 watts (nominal), AC110 ~ 245 volts, 50/60Hz
Aerial Input Impedance:	75 ohm unbalanced type VHF and UHF
Receiving Channels:	**PAL B/G, SECAM B/G system** Any of VHF channels . . . . . channels 2 to 12 Any of UHF channels . . . . . channels 21 to 69 **PAL D/K, SECAM D/K system** Any of VHF channels . . . . . channels 1 to 12 Any of UHF channels . . . . . channels 21 to 69 **PAL I system** Any of UHF channels . . . . . channels 21 to 69 **NTSC Standard (US M, JAPAN M) system** Any of VHF channels . . . . . channels 2 to 13/1 to 12 Any of UHF channels . . . . . channels 14 to 78/13 to 62 **NTSC 3.58/5.5 System** **NTSC 4.43/5.5 System** . . . . . VTR Play Back **PAL 50/60Hz System** **SECAM 50/60Hz System** . . . . . VIDE DISK Play Back **NTSC 50/60Hz System**
Intermediate Frequencies:	Picture I-F carrier frequency . . . . . 38.0MHz Sound I-F carrier frequency 33.5/32.5/32.0/31.5MHz
Chassis Construction:	IC Solid State, Horizontal Chassis
Picture Tube:	A66JPQ90X01(W) (66 cm measured on diagonal of viewable picture area) 110° Deflection
Sound Output:	5.0W + 5.0W (at 10% harmonic distortion),
Speaker:	Round 12cm x 2
Cabinet:	Plastic Table Type
Dimension:	Height . . . . . 58.8 cm Width . . . . . 64.0 cm Depth . . . . . 49.5 cm
Weight (Net):	38.6 kg
Features:	Flat and Square tube, On screen display, VIDEO and AUDIO input/output terminals, Remote Control.

Specifications are subject to change without notice.

Printed in Japan Jun. 1987


U801 POWER-2 BOARD PW6004
U903 POWER BOARD PW6295-1
POWER SW
S801
POWER CORD
P801
DG COIL
L901 TSB2206A
T801 TRF3117 LINE FILTER
T804 TRF-3126
T802 TPW3092 CONVERTER TRANS
T803 TPW3093
Q801 2SD1279 CONVERTER OUT PUT
Q802 2SA1012-Y
Q803 2SC1959-O OSC-1
Q804 2SA1015-Y ERROR AMP
Q805 SFOR1B41 O. V. P.
Q806 2SA1265-N (FA-1)
Q807 2SC2230-QR
Q835 SF5J42
Q830 2SC1815-Y 2SC1685-Q
QE01 2SC1815-Y
QE02 2SC1815-Y
QE03 2SC2655-YorO
QE04 2SC3148 (FA-1)
QE06 2SA1015-Y
QE07 2SA950-Y
QE08 2SC1627-Y
QE09 2SA950-Y
QE10 2SA1015-Y
D801~D834 TVR4J x 4
D805 1S1835
D804 S5295J
D806 GU-3C
D807~D809 1S1835x3
D810 1S1835
D820 1SS178
D811 S5295G
D812 1SS176
D813 1SS176
D814 04AZ7. 5Z
D822 04AZ6. 2X
D836 TVR-4J
D837 TVR-4J
D839 04AZ24-Y
DA14 1SS176
DE01 PC510
DE02 1SS176
DE03 1SS176
DE04 DE12 04AZ5. 6X×2
DE05 S5295G
DE06 S5295G
DE07 S5295G
DE08 RD30ES-B4
DE09 04AZ4. 7X
DE11 1SS176
D815 RU4A
D816 ERC20-04
L806 RH0630025
L807 TRF9229
L808 TLN2026
L801 TLN1015
L802 TRF-9229
L803 TLN-2026 POWER REGU
TO MAIN BOARD
TO MAIN BOARD
TO MAIN BOARD
TO MAIN BOARD
P602A
P003
EXT. SPK. TERM
S001 EXT. SPK. SW
W661 SPK-1179 (4Ω) (L)
W662 SPK-1179 (4Ω) (R)
INT
EXT
+5V
+145V
+15V (AUDIO)
(+5V)
(RST)
(EARTH)
(-30V)
(RMT)
+145V ADJ
SA18 VIDEO
SA16 VOL UP
SA15 CH DN
SA14 CH UP
SA17 VOL DN

U101 IF BOARD PW6001



U903 A/V TERM. BO
PW629

TO POWER BOARD

M602 P602 (3P)

IC605 AN7178

TV OUT VIDEO R L/MONO

IN VIDEO R

TO POWER BOARD M601 P601 (3P)

(+16V) R642 R0.39

C636 100μ (25V) C626 100μ (25V) C629 100μ (25V) C627 47μ (25V) C628 47μ (25V) C625 1000μ (25V) C633 0.047 (M)

C630 0.068 (M) C631 0.068 (M) C632 0.047 (M) C638 2.2μ C637 2.2μ C634 1000μ (25V) C635 1000μ (25V)

C699 05Z24Y

R644 R2.2 R643 R2.2 R666 S330 R668 P10K R667 P10K R665 1/2S 330

HEAD PHONE P661

TO IF BOARD M106 MH07

D617 1SS176 R638 P10K C644 47μ (16V) Q608 2SA1015-Y

D614 1SS176

C642 10μ R636 P10K R637 P47K Q609 2SC1815-Y or 2SC1685-Q R633 P10K R634 P330 R635 P330

D615 1SS176

R639 P10K C646 0.01 R640 P47K Q610 2SC1815-Y or 2SC1685-Q C641 3.3μ

R626 P10K Q606 2SC1815-Y or 2SC1685-Q C639 3.3μ R630 P4.7K

R627 P5.6K R631 P10K Q607 2SC1815-Y or 2SC1685-Q R628 P10K C640 10μ R629 P5.6K R632 P4.7K

+12V

RG34 P100K RG36 P10K CG35 4.7μ QG08 2SC1815-Y or 2SC1685-Q

CG32 0.01 RG31 P47K (R) QG07 2SC1815-Y or 2SC1685-Q RG37 P4.7K C623 0.0068 (M)

RG32 P5.1K RG33 P3K CG33 10μ CG34 0.22 (M) RG35 P39K RG38 P18K CG31 4.7μ

C624 0.12 (M) R622 P1.2K R621 P1.2K

C619 47μ (16V) ICQ604 TA7630P C616 4.7μ

RG43 P33K RG44 P33K R624 P150K R625 P150K C620 4.7μ C621 0.0068 (M) C622 0.12 (M) R694 P120K C618 2.2μ C617 4.7μ

ON OFF S201 MSS5 SW

MC03 PC03 TO IR AMP BOARD +12V

(BALANCE) (VOL. CONT) C615 4.7μ R620 P1.2K R623 P10K (BASS) (TREBLE) 5Vp-p

MC02A MC02B TO IR AMP BOARD +5V

QA17 2SC1815-Y or 2SC1685-Q RA88 P430 RA87 P1K

QA19 2SC1815-Y or 2SC1685-Q RA84 P10K

	ON	0V
	STB	5V

	6	7
VL	0	0
VH	0	5V
UHF	5V	0

DA23 DA22 DA21 DA20 1SS176 x 4

AFT SA04

(VOL)

SYSTEM SA08 AUTO PRE SA01 P SELECT SA09 RST SA10 STORE SA05 SA03 V SEARCH MFT DN SA02 U SEARCH MFT UP SA06 ADJ UP SA06 ADJ DN SA07

TO POWER BOARD MC01 PC01 (7P)

DA35 1SS176 R811 P1K DA07 1SS176

(TRE) RA05 P1K (TINT) DA15 1SS176 RB10 P1K

PD6336

(BAL) (BASS) (COLOUR) (BRT) (CONT) LOAD CLK DATA

DA09 1SS176 DA11 1SS176

RA30 P22K

DA05 1SS176 +12V CA08 10μ DA06 1SS176 CA07 10μ (16V)

DA01 ~DA03 1SS176 x3

R815 P1K R814 P1K R813 P1K R812 P1K

QA24 2SA1015-Y LA02 AZ9004Y CA36 100μ (16V) DA16 1SS176 BU +145V RA53 R18K

BH BL

QA04 LA7910

5V 0 126μS RA56 P33K DA17 1SS176 RA58 P33K RA59 P33K RA57 P33K RA55 P22K RA54 P1K CA09 390P CA10 220P QA05 2SC1815-Y or 2SC1685-Q CA11 0.1 (M) CA12 0.1 (M)

+5V CA28 1000P RA03 P22K RA13 P1K

CA01 CA02 47μ (16V) 0.01 LA01 PL-1 CAC3 10μ (16V) LB01 TRF1120

D/A (VT) VDP0 (M/S) VDP1 VDP2 INT (RMT) M2 (POWER) M1 (BAND1) M0 (BAND0) F3 3.58N (SUB RST) F2 4.43N (SUB INT) F1 SECAM (PAL) F0 (PAL) SECAM G3 50/60IN (SUB DATA) G2 NTSC IN (SUB DATA) G1 SECAM IN (SUB DATA) G0 RAL IN (SUB DATA) E3 (KEY IN) E2 (KEY IN) E1 (KEY IN) E0 (KEY IN) H3 (KEY OUT) H2 (KEY OUT) H1 (KEY OUT) H0 (DA LOAD) TEST Vss VDD H V OSC1 OSC2 R G B (VS) OUT K3 (A SACH) K2 (REF. DEF) K1 (MUTE) K0 (M CS) L3 (EXT MUTE) L2 (CMD/TV) L1 (VIDEO) L0 (SYNC) A/D (AFT) (M-I/O)D DA-I/O J3 (KEY) J2 (KEY) J1 (KEY) J0 (CLK/KEY) OSC IN OSC OUT RST

QA01 M50436-582SP or M50436-585SP or M50436-584SP

CA29 100P CA30 100P CA31 100P CA35 100P RA49 P1K RA48 P1K RA47 P1K RA46 P1K RA44 P1K RA43 P22K RA42 P1K RA01 P4.7K ZA02 4.7Kx3 RA02 P4.7K RA37 P10K

DB10 1SS176 RB32 P36K CA35 560

QA22 2SC1815-Y or 2SC1685-Q

QA14 2SC1815-Y or 2SC1685-Q -30V

ZA01 4MHZ CA04 30 CA05 30 CA06 0.01 RA32 P1K

RA31 P2.7K

PW6296

U903 CRT DRIVE
BOARD PW6295-2

U301 DPC. BOARD
PW5883

IC501
TA8616N

SUB BRIGHT

H. CENT

RED CUT OFF

GREEN DRIVE

GREEN CUT OFF

BLU DRIVE

BLU CUT OFF

RED OUT

GREEN OUT

BLU OUT

+145V

+12V

+27V

HEIGHT

SERVICE SW.

RASTER

FOCUS

SCREEN

V901
C. CRT
A66JQP90X01
(W)

V901A

EHT

L462
DEFLECTION
YOKE

T461
TFB-4062AD
HOR. OUTPUT TRANS

T401
TLN-1046
HOR. DRIVE
TRANS

IC303
AN5521

IC361
TDA8145

TO POWER BOARD

TO IF BOARD

M510

M511B

M511A

M810

M360

M361

P810 (3P)

P570 (6P)

P360 (3P)

P361 (4P)

Q505 2SC2068

Q506 2SC1815-Y or 2SC1685-Q

Q508 2SC2068

Q509 2SC1815-Y or 2SC1685-Q

Q511 2SC2068

Q512 2SC1815-Y or 2SC1685-Q

Q513 2SA562TM-O

Q515 2SC1815-Y

Q596 1SS176

D591 D592 1SS176 × 2

QN07 2SC1815-Y or 2SC1685-Q

QN08 RN1204

QN01 2SC1815-Y or 2SC1685-Q

QN02 2SA1015-Y

QN03 2SA1015-Y

QN04 2SC1815-Y or 2SC1685-Q

QN05 2SC1815-Y or 2SC1685-Q

QN06 2SC1815-Y or 2SC1685-Q

Q201 2SA1015-Y

Q402 2SC1589 (FA-5) HOR. DRIVE

Q403 2SD1432 HOR. OUT

Q405 2SD553-Y

Q362 2SA1015-Y

Q363 2SC1815-Y or 2SC1685-Q

D240 1SS176

D404 1SS176

D242 1S1553

D402 1S1886

D301 1SS176

D302 1S1834

D303 ERC01-02FL

D406 S5295G

D440 ERC-26-15T

D441 3JH61

D361 05Z18Y

D362 1S1555

D364 05Z7.5Y

D366 05Z4.7Y

D367 1S1555

D405 05Z20Y

D410 04AZ8.2Y

D411 05Z9.1Y

D501 05Z9.1Y

D407 04AZ6.2Y or RD6.2ESB2

D409 04AZ6.2Y

D408 3JH61

D504 05Z5.1Y

DN06 1S2186 FA-1

DN07 1S2186 FA-1

L311 HC5-0355

L411 TEM2001

L412 TEM-2001

L441 TLN2091

L361 TLN3061

L367 (330μH) TLN3062

L401 503K

L501 TRF1092

LM01 TRF1093

LM04 TRF-1092

X401 503K

X501 4.43M

XN01 3.58M

BRT. BLK. CLAMP

H OUT

AFC

32FH OSC

SYNC SEPA

FORCED STANDARD SET.

SYSTEM CONTROL SCANNING

H. V I'L

CW

BURST AMP

IDENT

APC

CHROMA VCO

VERT

VCO

HVcc

AFC ABCD AFC

IC303 OUTPUT

IC303 DRIVE

IC303 PULSE AMP

IC303 VCC

R591 R15K

R592 R15K

R593 R15K

R901 S2.7K

R902 S2.7K

R903 S2.7K

R534 P100K

R536 P100K

R540 P100K

R563 P100K

R547 P470

R548 P470

R549 P470

R538 P2.4K

R539 P1.3K

R537 P1.3K

R557 2K (B)

R558 2K (B)

R559 2K (B)

R560 P8.2K

R561 P8.2K

R562 P8.2K

R541 P820

R542 P270

R543 P10K

R544 P100

R920 FR5.1

C901 2.2μ (350V) or (315V)

C902 2200 (1.6KV)

C532 36P

C535 10μ

C536 0.47μ

C537 100μ (16V)

C539 0.01

C531 0.1

C449 100μ

C527 82

C526 82

C525 82

R515 P220

R516 P220

R517 P220

R408 P5.6K

R406 P390

R407 P150

R409 P10K

R410 R4.3K

R451 5K (B)

R413 R8.2K

R405 P510

R403 P1.6K

R502 P240K

R301 P300

R302 P1500

R305 P160

R307 P100

R306 P20K

R320 P1K

R312 P9.1K

R318 P1K

R325 P11K

R328 R110

R421 R1K

R441 P10K

R440 P10K

R322 R1K

R321 R1K

R319 P620

R323 R0.82

R317 2.2

R316 3300μ (25V)

R311 R2.4K

R219 P10K

R225 P10K

R241 P56K

R240 P68K

C301 2.2μ

C302 1500

C304 1000

C303 1μ

C305 0.027

C506 0.027

C508 2.2μ (25V) (NP)

C509 33 (CH)

C504 15 (CH)

C529 30 (CH)

C512 20 (CH)

C528 0.01

C507 0.01

C408 100μ (16V)

C409 0.01

C407 0.018

C405 0.02

C406 0.02

C413 0.0018

C519 0.01

C630

C521 0.47

C522 0.47

C523 0.47

CX04 0.1

C241 180

C240 0.47μ

C328 2200 (500V)

C319 0.0082 (100V)

C327 0.039 (100V)

C442 0.3 (200V)

C445 0.047 (200V)

C447 10μ (400V) (5P)

C446 33μ (200V)

C448 2200μ (35V)

C441 220P (500V)

C443 6800 (1.6KV)

C444 0.062 (400V)

C440 6800 (1.6KV)

C464 180VL (2KV)

C463 0.0022

C418 100μ (100V)

C416 330 (500V)

C417 0.0033 (500V)

C314 51 (500V)

C306 0.056 (100)

C325 220μ (35V)

C323 3300

C311 2200μ (35V)

C320 1500 (500V)

C369 5600

C368 0.1μ

C584 P100K

C362 9100

C361 10μ (100V)

C365 0.47μ (100V)

C366 4900

C367 P18K

R557 200K (B)

R366 P13K

R369 R7.5K

R362 P24K

R361 P62K

R363 P10K

R364 R356 P27K 10K (B)

R370 P10K

R377 P47K

R378 P13K

R379 P6.2K

R380 P62K

R381 P680

R382 P10K

R385 P470K

R375 P27K

R372 P33K

R373 P10K

R374 P4.7K

R368 P3K

R383 S3.3M

R367 P18K

RN24 P10K

RN25 P330K

RN15 P22K

RN26 P10K

RN27 P33K

RN22 P33K

RN21 P3.3K

RN19 P6.8K

RN16 P33K

RN17 P470

RN18 P470

RN14 P10K

RN13 P10K

RN12 P2.7K

RN05 P2.2K

RM07 P15K

RM06 S4.7M RN28 P2.0M

RM05 P220

R522 S4.7M

R523 P1.2K

R524 P1.5K

R513 P1.5K

R512 P1.5K

R303 P43K

R304 P1K

R425 R150

R415 R12K

R416 R12K

R417 R1.2K

R418 R2.4K

R419 S39

R460 R160

R444 R0.82

R411 P300

R412 P240

R215 P2.2K

R255 10K (B)

R351 50K (B)

R201 P820

R222 P820

CN10 100

CN11 22

CN12 22

CN13 0.01

CN14 33

CN15 22

CN05 47μ (16V)

LN02 PL-15

LN03 PL-22

1.6Vp-p

2Vp-p (V)

1.8Vp-p (V)

5.8Vp-p (H)

2.2Vp-p (H)

12Vp-p (H)

2Vp-p (H)

0.37Vp-p (2μsec)

0.3Vp-p (H)

1.2Vp-p

2Vp-p

80Vp-p (H)

0.6Vp-p (H)

1200Vp-p (H)

145Vp-p

68Vp-p (H)

150Vp-p (H)

1.4Vp-p (V)

1.5Vp-p (V)

1.9Vp-p (V)

1.8Vp-p (V)

140Vp-p (V)

8Vp-p (V)

60Vp-p (V)

3.2Vp-p (V)

60Vp-p (V)

1.7Vp-p (V)

1Vp-p (V)

27Vp-p (H)

150Vp-p (H)

1.6Vp-p (V)

28Vp-p (H)

1.6Vp-p (V)

3.2Vp-p (V)

90Vp-p

80Vp-p

80Vp-p

IC361 ① ② PIN 2.5

③ PIN 8.5 0.04Vp-p (V)

⑤ PIN 28Vp-p (H) 27 1.6Vp-p (V)

⑦ PIN 12 3.2Vp-p (V)

⑧ PIN 11 1.5Vp-p (H)

T461 ① PIN 1200Vp-p (H)

T461 ② PIN 145 68Vp-p (H)

T461 ③ PIN 145

T461 ⑦ PIN (12V LINE) 140Vp-p (H)

T461 ⑨ PIN (HEATER) 27Vp-p (H)

T461 ⑩ PIN (AFC) 150Vp-p (H)

T461 ⑥ PIN (25V LINE) 150Vp-p (H)

IC303 ② PIN 60Vp-p (V)

IC303 ⑤ PIN 3.2Vp-p (V)

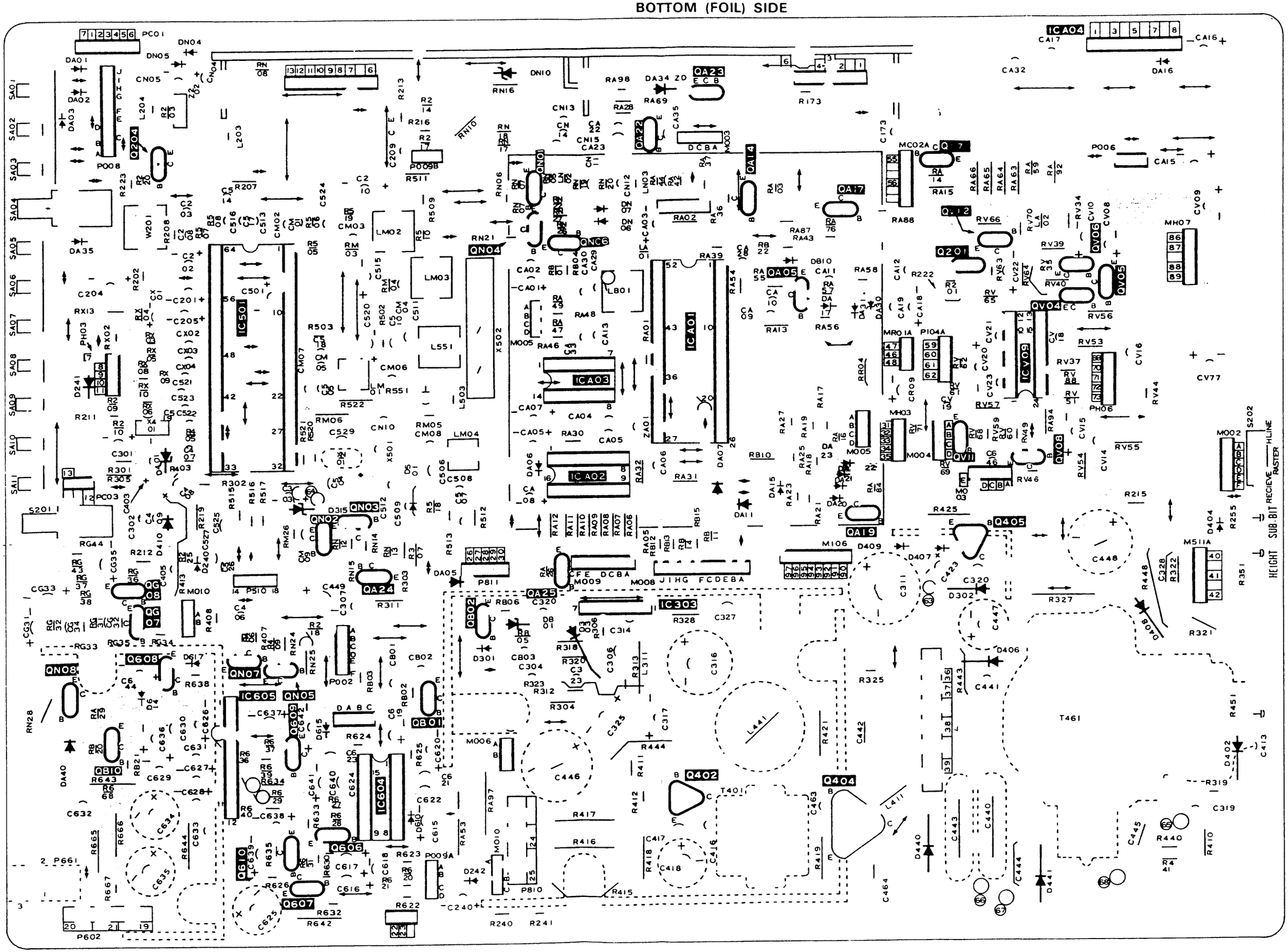
IC303 ③ PIN 60Vp-p (V)

IC303 ⑥ PIN 1.7Vp-p (V)

IC303 ④ PIN 1Vp-p (V)

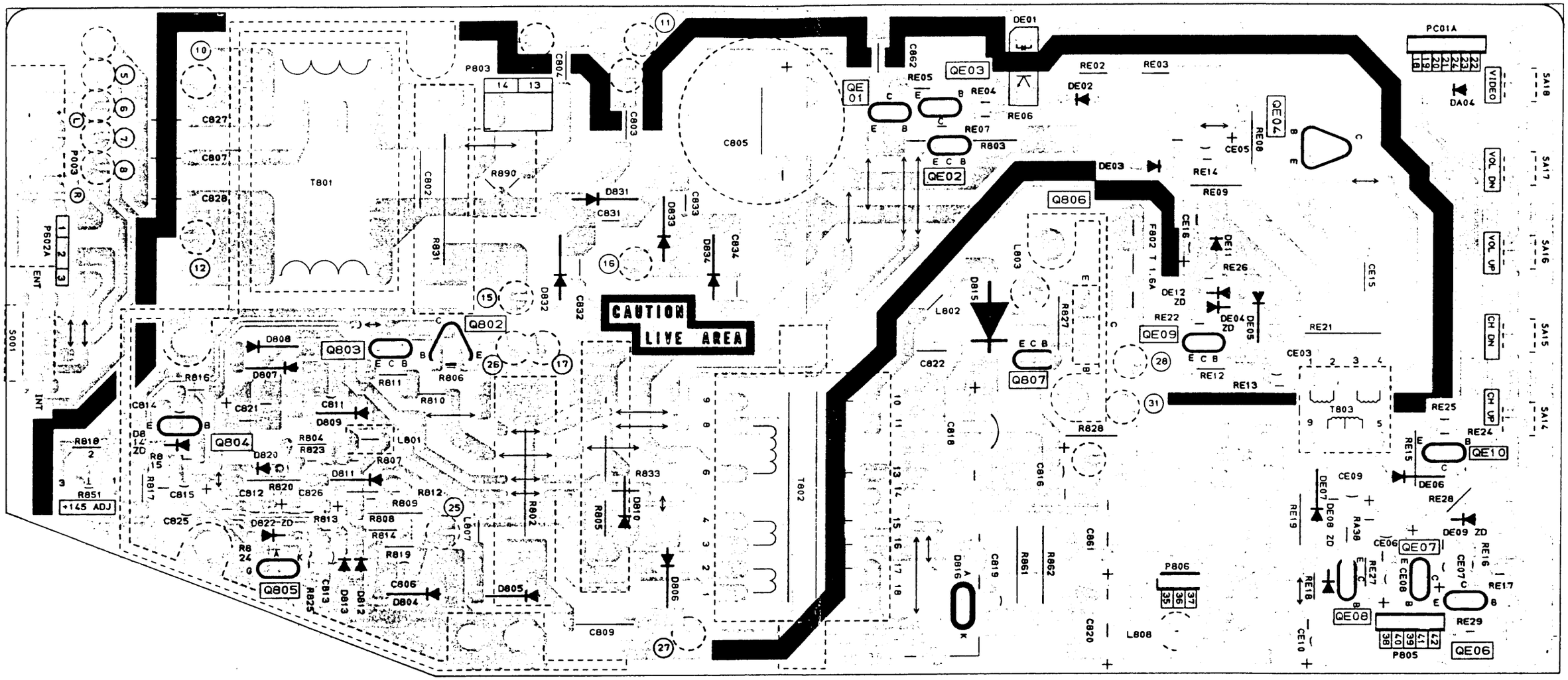
MAIN BOARD PW6296

BOTTOM (FOIL) SIDE


IC501
IC605
IC604
IC606
IC A01
IC A02
IC A03
IC A04
IC303
IC V09
QA23
QA22
QA14
QA17
QA25
QA24
QA19
QA05
Q201
Q402
Q404
Q405
Q606
Q607
Q608
Q609
Q610
QB01
QB02
QB10
QN02
QN03
QN04
QN05
QN06
QN07
QN08
QV04
QV05
QV06
QV08
QV11
Q204
PC01
PC03
P008
P009B
P009A
P002
P602
P661
P810
P811
S201
S202
T461
T401
L441
L411
L503
L551
L801
X502
ZA01
PH03
PH06
MH03
MH07
M002
M005
M006
M009
M010
M106
M511A
DA01
DA02
DA03
DA16
DA34 ZD
DA35
DA40
DA41
DB10
D241
D301
D302
D402
D404
D406
D407
D409
D410
D440
D441
R211
R213
R216
R223
R301
R302
R305
R311
R321
R322
R323
R325
R327
R328
R403
R408
R409
R425
R443
R448
R451
R503
R509
R511
R522
R551
R638
R642
R643
R665
R666
R667
RA02
RA28
RA69
RA98
RA87
RA43
RA88
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RA92
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RA76
RA03
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RA37
RA42
RA49
RA47
RA16
RA84
RA94
RA32
RA31
RA12
RA11
RA10
RA09
RA08
RA07
RA06
RA05
RA04
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RA56
RA13
RA87
RA43
RA88

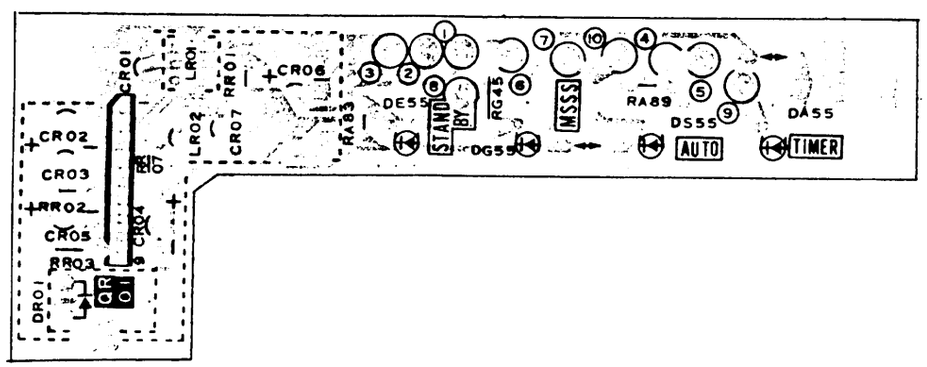
POWER BOARD PW6295-1

BOTTOM (FOIL) SIDE



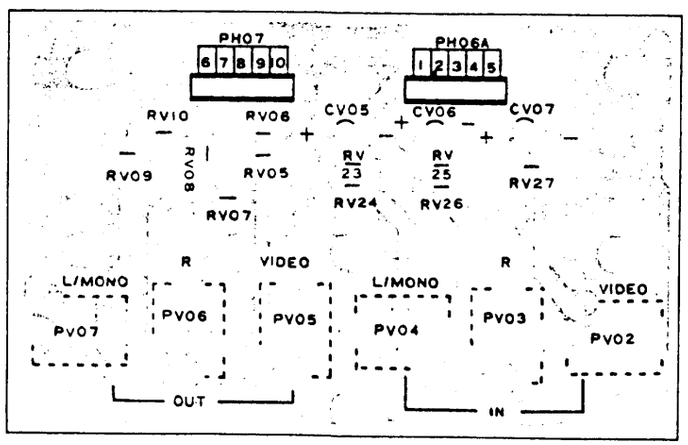
IR-AMP BOARD PW6295-3

BOTTOM (FOIL) SIDE



A/V TERMINAL BOARD PW6295-4

BOTTOM (FOIL) SIDE



NOTES



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