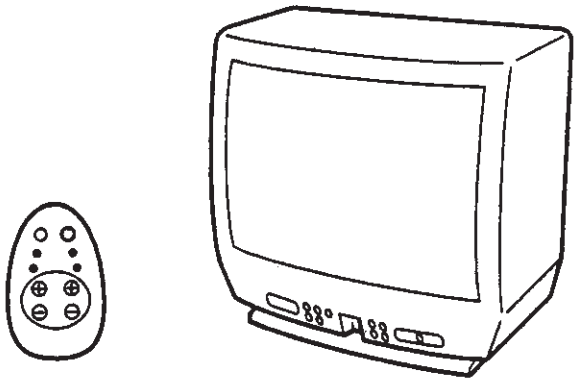
MANUAL DE SERVIÇO BA-3C CHASSIS

Brazilian Model

MODELO	CONT. REMETO	No. DO CHASSIS
KV-140MG	*RM-Y141*	*SCC-K38A-A*
KV-200MG	*RM-Y141*	*SCC-K38B-A*
KV-200MP	*RM-Y141*	*SCC-K38B-A*



Especificações Técnicas

PARA TODOS OS MODELOS

Sistema de televisão	PAL-M/NTSC
Cobertura de canais	VHF:2 a 13/UHF: 14 a 69/CATV: 1 a 125
Antena	Tomada para antena externa de 75 ohms para VHF/UHF
Saída AC	Saída AC para Game 25W - 240V Máximo (dependendo da alimentação do televisor).
Tubo de imagem	Tubo SHADOW-MASK
Requisitos de Alimentação	110 ~ 240V 60Hz
Acessórios incluídos	Duas pilhas (pequena) tamanho AA (R6) Conector para antena Controle Remoto Antena telescópica (somente KV-140MG)

TV EM CORES

SONY

KV-140MG

Dimenção da tela	14 polegadas
Entradas	2 entradas para áudio/video
Saída do alto-falante	3 W
Consumo de energia	Máximo: 70 W Em modo STNDBY: 16W
Dimensões aproximadas do aparelho	(LxAxP) 360x341x393 mm
Pêso líquido aproximado	9,7 kg

KV-200MG/KV-200MP

Dimenção da tela	20 polegadas
Entradas	2 entradas para áudio/video
Saída do alto-falante	3 W
Consumo de energia	Máximo: 90 W Em modo STNDBY: 16W
Dimensões aproximadas do aparelho	(LxAxP) 500x461x475 mm
Pêso líquido aproximado	17,6 kg

Advertência e Precauções

Para evitar perigo de faísca ou choque elétrico, não exponha o televisor à chuva ou umidade.

Este símbolo tem o propósito de alertar o usuário sobre a presença de "voltagens perigosas" não isoladas, localizadas dentro do gabinete do produto, as quais podem ter intensidade suficiente para se constituirem em risco de choque elétrico para as pessoas.

Este símbolo tem o propósito de alertar o usuário quanto à presença de importantes instruções de operação e manutenção (serviços) constantes do material escrito que acompanha o aparelho.

CUIDADO

Ao usar jogos eletrônicos, computadores e outros produtos semelhantes no seu televisor, mantenha as funções de brilho e contraste em níveis baixos utilizando a tecla GAME PON. Se um padrão fixo (sem movimento) for deixado na tela por longos períodos estando o aparelho com um nível alto de brilho ou contraste, a imagem pode ser permanentemente gravada na tela. Este tipo de gravação na tela não está coberto pela garântia, porque é resultado de uso inadequado.

Precauções de segurança

- Este aparelho deve ser ligado somente em tomadas 110-240V/ 60 Hz.
- Se qualquer líquido ou objeto cair dentro do televisor, desligue imediatamente o aparelho e leve-o a um Serviço Autorizado Sony.
- Se não for utilizar o televisor por vários dias ou por um período mais longo, desligue-o da tomada. Para desconectar o cabo elétrico, segure-o pelo plugue. Nunca puxe o próprio cabo.

Atenção

- A Sony não se responsabiliza por defeitos ou danos no aparelho caso não sejam observados os procedimentos e as instruções constantes deste manual.

Proteção ao televisor

- Para evitar o superaquecimento interno do aparelho, não bloqueie as aberturas de ventilação, deixando no mínimo 10 cm entre ele e as paredes que o cercam.
- Não instale o televisor em lugar quente ou úmido, ou em local em que fique exposto a quantidades excessivas de poeira ou a vibrações mecânicas.
- Para assegurar a dissipação do calor interno do aparelho, não coloque objetos ou toalhas decorativas sobre as aberturas para ventilação.

Observação

O emprego deste televisor para fins que não sejam a visualização em privado de programas de televisão de UHF, VHF ou transmitidos por companhias de televisão a cabo para uso do público em geral pode requerer a autorização da emissora ou companhia de cabo, do proprietário do programa, ou de ambos.

Aviso

Este televisor não reproduz em cores fitas gravadas em 50 Hz, reproduzidas por videocassetes transcodificados dos sistemas PAL e SECAM europeus, para os sistemas PAL-M e NTSC.

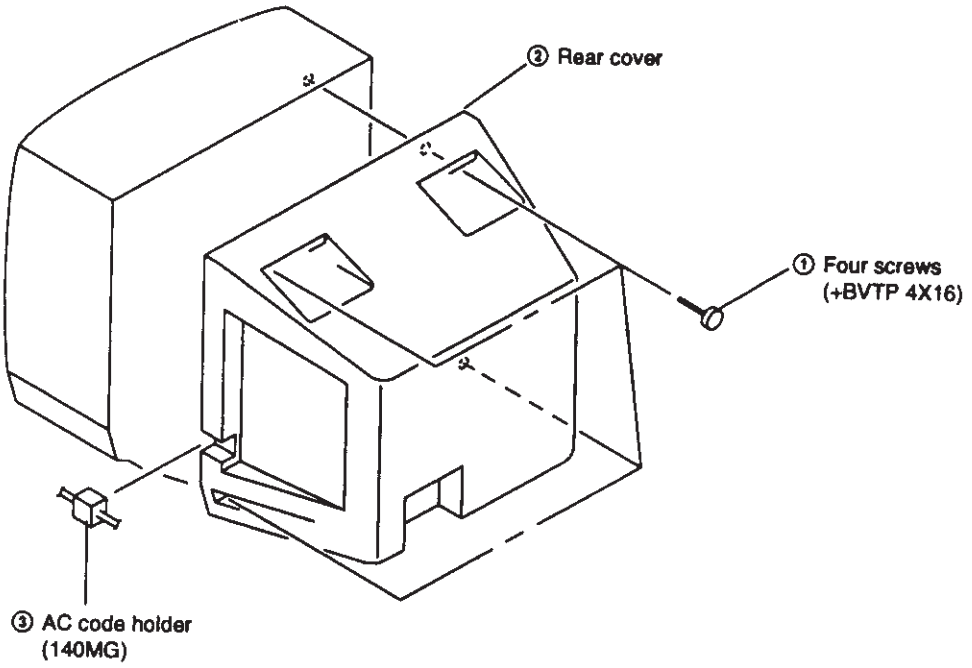
Limpeza

Limpe externamente o aparelho com um pano macio e seco. Não utilize álcool, detergentes, nem solventes, tais como benzina ou thinner, pois eles podem causar danos ao acabamento e às superfícies do aparelho. Antes da limpeza, por motivo de segurança, desligue o aparelho.

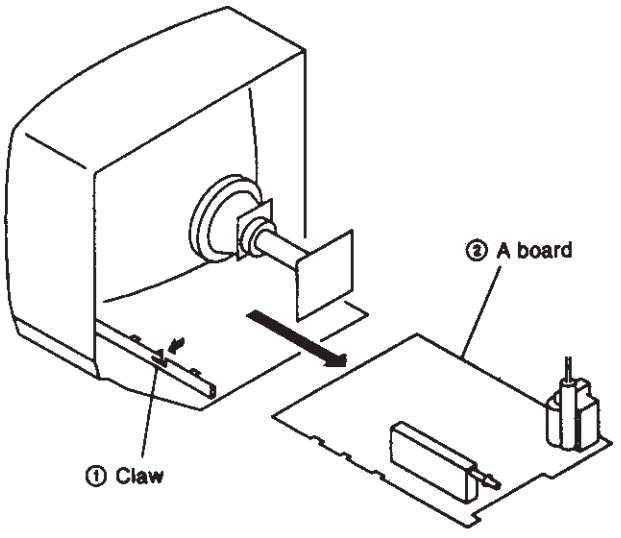
ÍNDICE

SEÇÃO 1
DESMONTAGEM

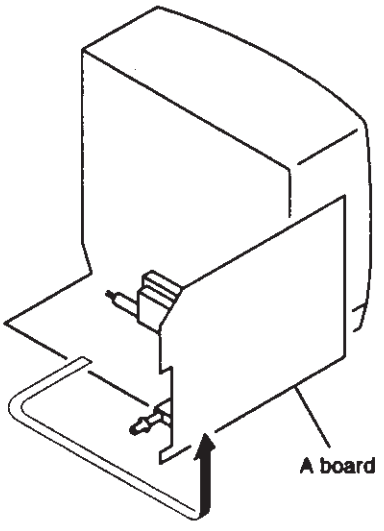
1-1. REMOÇÃO DA TAMPA TRAZEIRA



1-2. REMOÇÃO DA PLACA A



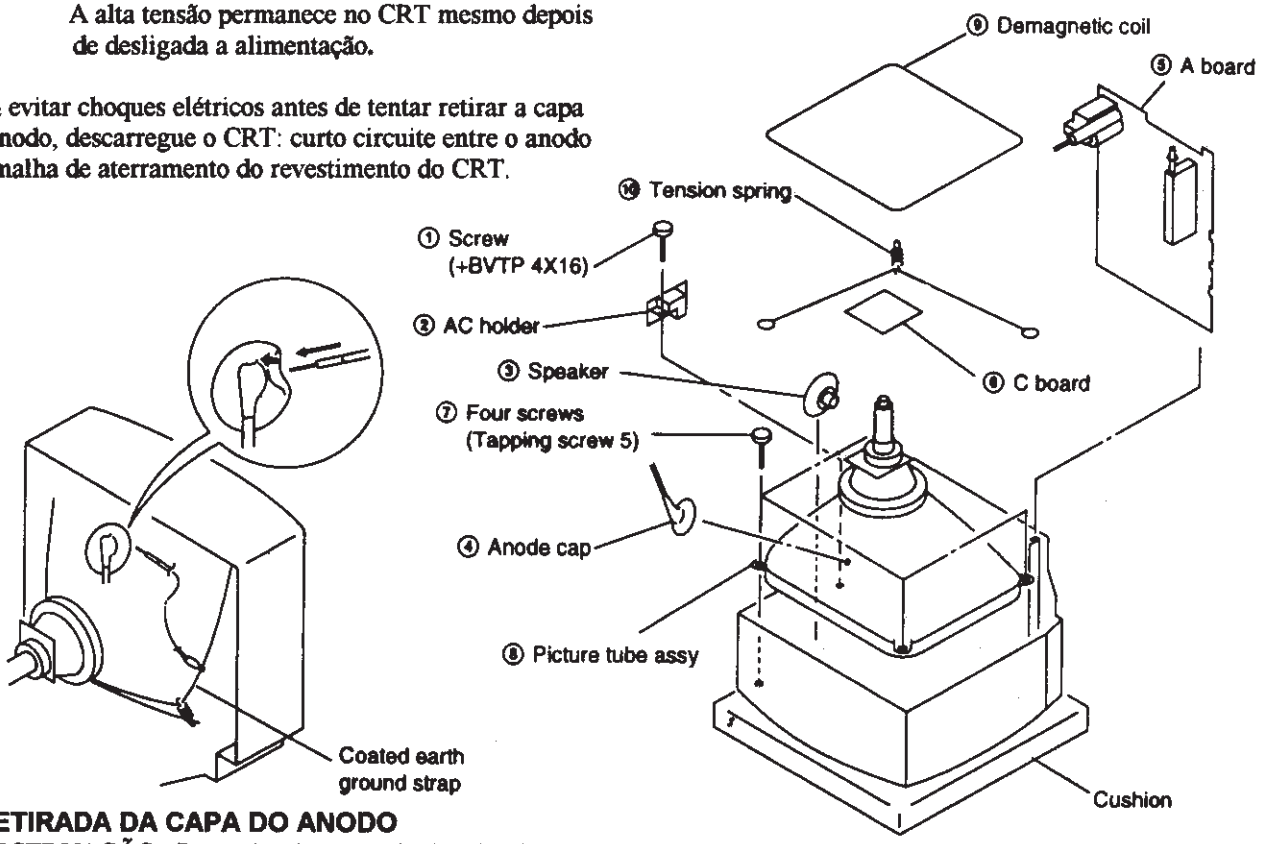
1-3. POSIÇÃO DE SERVIÇO



ADVERTÊNCIA : Antes de retirar a capa do anodo A alta tensão permanece no CRT mesmo depois de desligada a alimentação.

Para evitar choques elétricos antes de tentar retirar a capa do anodo, descarregue o CRT: curto circuite entre o anodo e a malha de aterramento do revestimento do CRT.

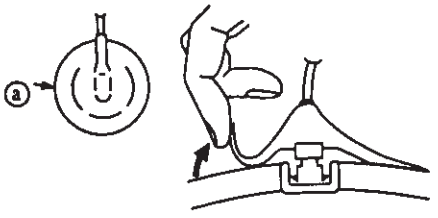
1-4. RETIRADA DO TUBO DE IMAGEM



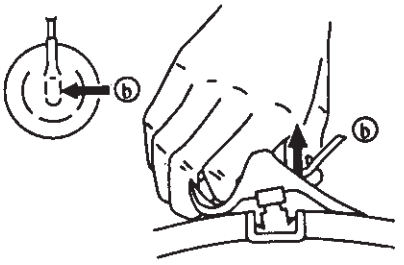
- **RETIRADA DA CAPA DO ANODO**

OBSERVAÇÃO: Curto circuite o anodo do tubo de imagem e a malha de aterramento de blindagem do CRT ou pintura de carbono do CRT, antes de retirar o anodo.

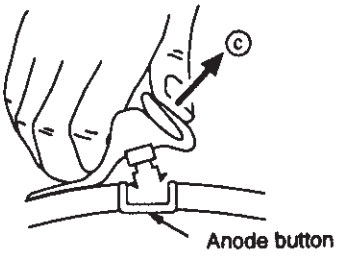
- **PROCEDIMENTOS DE RETIRADA**



1 Levante um lado da capa de borracha na direção indicada pela sete a .



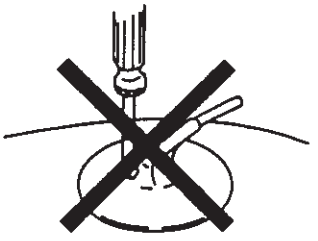
② Usando o polegar, levante com firmeza a capa de borracha na direção indicada pela seta b .

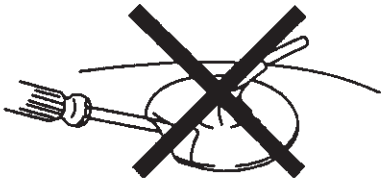


3 Quando um lado da capa de borracha estiver separada da base do anodo, a capa do anodo pode ser retirada, levantando a capa de borracha e puxando-a na direção da seta c .

- **COMO MANUSEAR UMA CAPA DE ANODO**

① Não danifique a superfície das capas de anodo com material pontiagudo!
② Não pressione as borrachas com muita fôrça para não danificar o interior das capas do anodo!
③ Não danifique a base da borracha usando fôrça!





SEÇÃO 2
AJUSTES DE CONFIGURAÇÃO

- Os seguintes ajustes devem ser executados se for necessário um realinhamento completo ou for instalado um novo tubo de imagem.

- Estes ajustes devem ser executados com a tensão nominal
- da rede eletrica,exceto quando especificado diferente.

Os controles devem ser ajustados como segue
Controle de CONTRASTE..... normal

Controle de BRILHO.....normal

Execute os ajustes na ordem seguinte:

1. Pureza
2. Convergências
3. Foco
4. Balaço de Branco e Screen (G2)

Observação: Equipamento de Teste

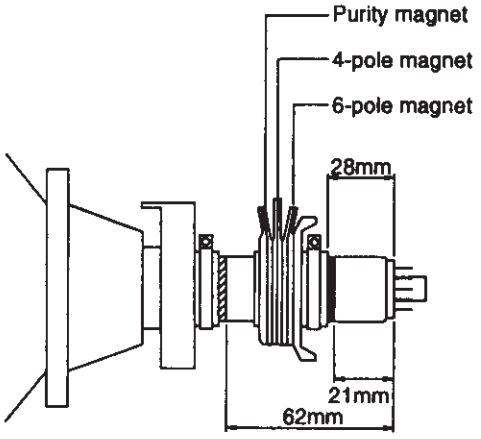
1. **Gerador de barras.**
2. **Desmagnetizador**
3. **Fonte de alimentação CC**
4. **Multímetro digital**

2-1. PUREZA

1. Coloque um sinal de tela verde com o gerador de barras.
2. Solte o parafuso de fixação do Yoke de deflexão, e desloque para atrás.
3. Solte o lacre do imã de anel(magnet)
4. Ajuste imã de pureza(Purity magnet) de modo que o verde fique no centro da tala.
5. Desloque o Yoke de deflexão para frente e ajuste no modo que a tela toda fique verde.
6. Mude o padrão para vermelho e azul e confirme a condição.
7. Quando a pureza estiver correta, aperte-o parafuso de f ixação do yoke de deflexão.
8. Quando a pureza no canto não estiver correto, ajuste-o novamente.

2-2. AJUSTE DE CONVERGÊNCIA NO CENTRO

1. Coloque um sinal de quadricurada(cross hach)
2. Solte o lacre do imã de anel.
3. Ajuste com o imã de 4 polos(4-pole magneto) para convergir as linhas vermelhas e azuis.
4. Ajuste com o imã de 6 polos(6-pole magnet) para convergir as linhas vermelhos e azuis



2-3. AJUSTE DE CONVERGÊNCIA NO CANTOS

1. Destrave o Yoke de deflexão.
2. Mover o Yoke de deflexão nos sentidos horizontal e vertical e ajustar conforme mostra a Figura 1 ou 2.
3. Instale os espaçadores e aperte o parafuso do Yoke de deflexão.

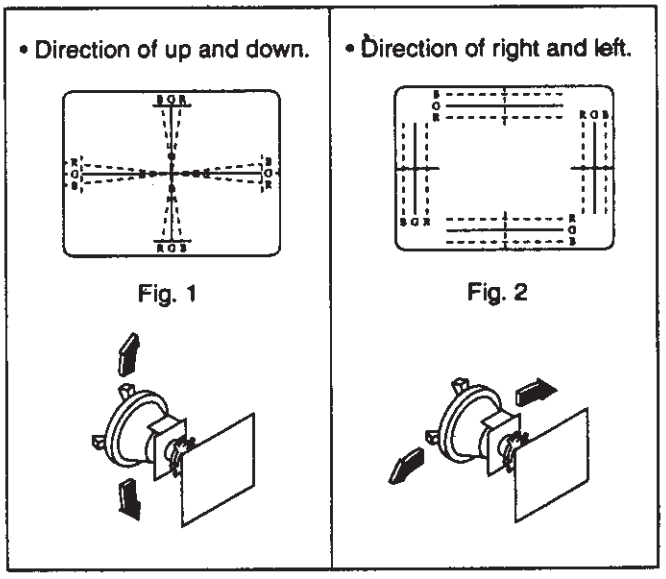


Fig. 1 Fig. 2

Manner of stick the tape and set position of the spacer DY.

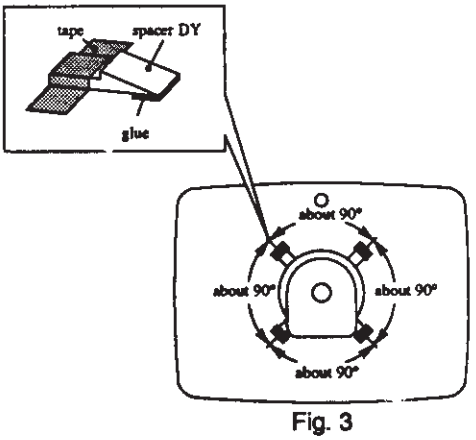
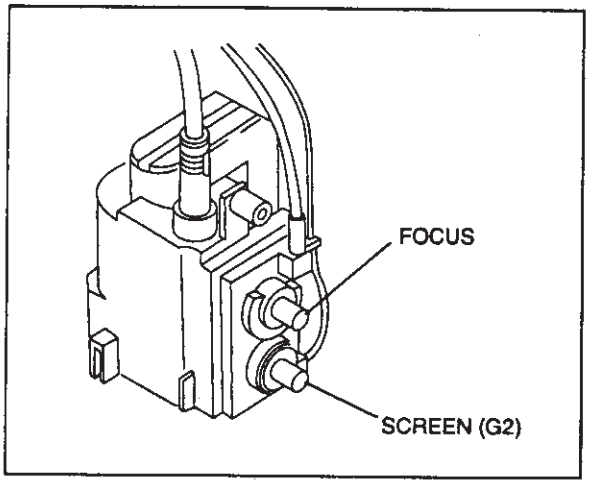


Fig. 3

2.4. FOCO

Ajuste o controle de Foco para a melhor imagem



2-4. GRADE G2 (SCREEN)

1. Dê entrada a um padrão de pontos
2. Ajuste os controles de **COTRASTE**(PICTURE) e **BRILHO**(BRT) no mínimo e o controle de côr em normal.
3. Ajuste **SBRT, G CUT, B CUT**, no modo de serviço para que as voltagens dos catodos vermelho, verde e azul sejam 170 Vcc, como mostra a Fig. 11
4. Observe a tela e ajuste **SCREN (G2) VR** até obter ospontos levemente visível

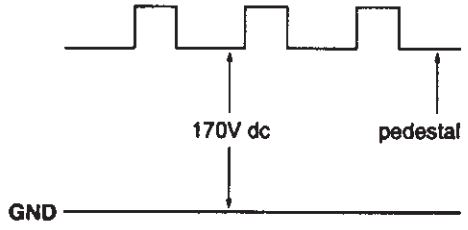


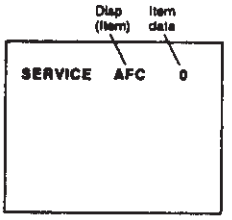
Fig. 4

2-6. METODO DE AJUSTE NO MODO DE SERVIÇO

PROCEDIMENTO PARA MODO SERVIÇO

1. Modo Standby (power off).
2. Precione seguinte sequência de teclas no controle remoto.
   DISPLAY → 5 → VOL (+) → POWER
   (Pressione cada botão dentro de um segundo)

MODO DE AJUSTE SERVIÇO EM



3. O CRT indica o item que está sendo ajustado
4. Precione o botão **1** ou **4** do controle remoto para selecionar o item ser ajustado.
5. Pressione o botão **3** ou **6** do controle remoto para mudar o ajuste (data)
6. Pressione **MUTING** depois **ENTER** para gravar na memoria.

MEMORIA DO MODO DE AJUSTE SERVIÇO

MUTING(Verde)

ENTER (vermelho)

7. Para sair do **MODO de SERVIÇO** desligue o aparelho e volte liga-lo.

2-6. AJUSTE DO EQUILIBRIO DE BRANCO

1. Coloque um sinal de tela branca
2. Entre no **MODO de SERVIÇO**
3. Coloque o **CONTRASTE** e o **BRILHO** para o mínimo
4. Ajuste com o **SBRT**, se necessário
5. Selecione **G CUT** e **B CUT** com as teclas **1** e **4**
6. Ajuste o melhor balanço branco com as teclas **3** e **6**
7. Coloque a **CONTRASTE** e o **BRILHO** ao máximo
8. Selecione **GDRV** e **BRDV** com as teclas **1** e **4**
9. Ajuste o melhor equilibrio de branco com as teclas **3** e **6**.
10. Escreva na memória pressionando **MUTING** e depois **ENTER**

4. LISTA DE ITENS PARA AJUSTES

Nº	Disp.	Item	Faixa de dados	Média de dados
1	**SYS**	Sistema de cor	0-3	0
2	**AFC**	Ganho loop AFC	0-3	1
3	**VPOS**	V. Position	0-31	**16
4	**VSIZ**	V. size	0-63	**15
5	**VLIN**	V.linearity	0-15	**9
6	**VSCO**	S.corretion	0-15	**2
7	**HPOS**	H.Position	0-15	**9
8	**GDRV**	Green-drive	0-31	14
9	**BDRV**	Blue-drive	0-31	16
10	**G CUT**	Green-cut off	0-15	6
11	**B CUT**	Blue Cut off	0-15	9
12	**TOT**	Chroma TOTFilter	0,1	*1
13	**NR**	Noise reduction	0,1	*0
14	**SCON**	Sub-contrast	0-15	9
15	**SHUE**	sub-Hue	0-15	7
16	**SCOL**	Sub-color	0-15	4
17	**SBRT**	Sub-Brightness	0-63	30
18	**SSHP**	Sub-sharpness	0-7	8
19	**RON**	Red-off	0,1	*1
20	**GON**	green-off	0,1	*1
21	**BON**	blue-off	0,1	*1
22	**PREL**	Pre-over shoot	0-7	4
23	**AXIS**	Axis SW	0,1	1
24	**DCOL**	Dynamic color	0,1	*1
25	**REF**	Reference Position	0-3	3
26	**ABLM**	ABL mode	0-3	3
27	**CROM**	Chroma trap SW	0,1	1
28	**OSBL**	OSD level	0,1	1
29	**Y-DC**	OC transmission	0-3	2
30	**GAMM**	Gamma	0-7	1
31	**VEXT**	V Sync extend	0,1	1
32	**VZON**	HV comp	0-7	4
33	**CDMP**	V countdown	0,1	0
34	**RGBL**	RGB limit	0-3	0
35	**YDLY**	Y delay	0-3	0:NSTC3:PAL
36	**DISP**	Display position	0-63	3
37	**PADJ**	B+ adjustment	0-63	48
38	**ID-0**	ID-0	0-255	ver tabela
39	**ID-1**	ID-1	0-255	ver tabela
40	**ID-2**	ID-2	0-255	ver tabela
41	**ID-3**	ID-3	0-255	ver tabela
42	**ID-4**	ID-4	0-255	ver tabela

* Valor de configuração , ** NSTC, PAL-M ,
OBSERVAÇÃO: Nº 1 a 42 indica a ordem dos ajustes

NOTA: IC 001 da placa de circuito A da entrada ao sinal V sync. no pino 5 e esta sempre em operação. Se houver a entrada de um sinal V sync. no pino 5 irá ocorrer um período de espera de 2 4 segundos e a força é desligada. Ao dar entrada no modo de serviço a função acima é cancelada e a operação eé possivel.

Ajuste os valores de função como indicado a seguir, ao substituir IC 102 na Placa A

KV-140MG

Nº	Disp.	Dados
38	ID-0	35
39	ID-1	3
40	ID-2	0
41	ID-3	4
42	ID-4	0

KV-200MG/200MP

Nº	Disp.	Dados
38	ID-0	35
39	ID-1	3
40	ID-2	0
41	ID-3	4
42	ID-4	0

SEÇÃO 3
AJUSTES DOS CIRCUITOS

3-1 AJUSTE ELETRICO PELO CONTROLE REMOTO

Use o controle remoto (RM-Y141) para efetuar ajustes do circuito nestes modelos.

OBSERVAÇÃO: Equipamento de teste necessário.

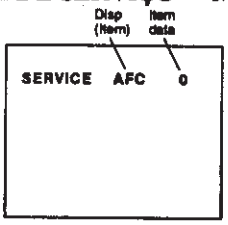
1. **Gerador de Barras**
2. **Frequencimetro.**
3. **Multímetro digital**
4. **Oscilador de Audio.**

1. METODO DE AJUSTE MODO DE SERVIÇO

PROCEDIMENTO MODO DE SERVIÇO

1. Modo standby (Power off)
2. Precione a seguinte sequência de teclas no controle remoto
   DISPLAY → 5 → VOL (+) → POWER
   (Pressione cada botão dentro de um segundo).

AJUSTE DE SERVIÇO - MODE IN



3. Na tela indica o item que esta sendo ajustado.
4. Pressione **1** ou **4** do controle remoto para selecionar o item.
5. Pressione **3** ou **6** do controle remoto para mudar os dados.
6. Pressione **MUTING** e depois **ENTER** para escrever na memória

AJUSTE DE SERVIÇO - MODO MEMORIA

MUTING VERDE

↓

ENTER VERMELHO

7. Pressione **8** e depois **ENTER** do controle remoto para inicializar.

Execute o passo 7) ao ajustar **IDs 0** a **4** e quando trocar e ajustar IC 003.

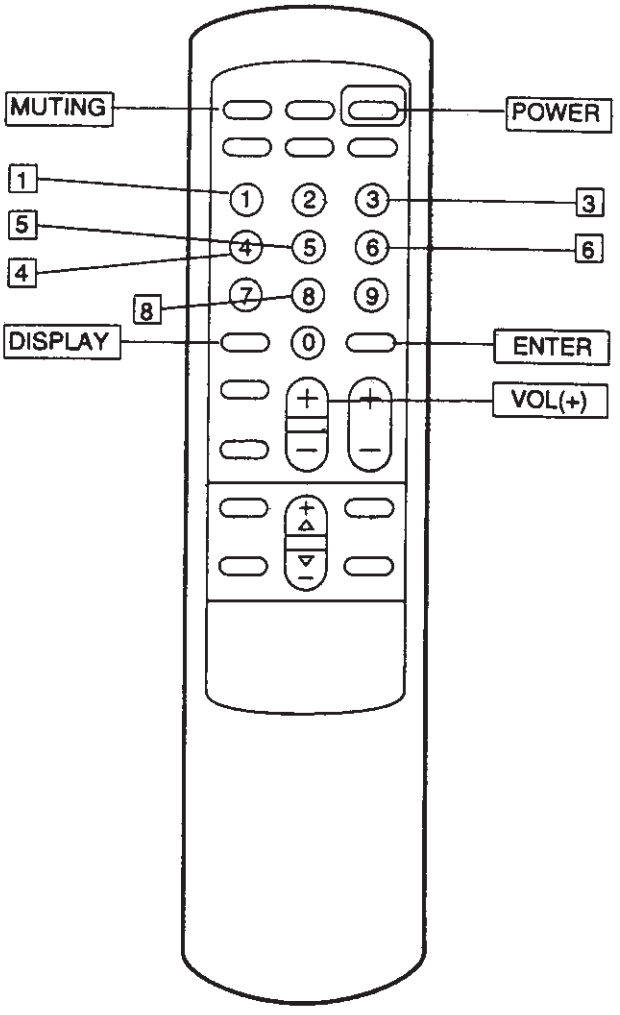
8. Para sair do **MODO** de **SERVIÇO** desligue o aparelho ,e volte a liga-lo.

2. METODO DE CONFIRMAÇÃO DA MEMÓRIA ESCRITA

1. Depois do ajuste, retire o plugue da tomada CA, depois recoloque o plugue na tomada CA.
2. Ligue a chave de força e ajuste de novo para o modo serviço.
3. Chame os itens ajustados para confirmar se foram ajustados.

3. BOTÕES DE AJUSTE E INDICADOR.

UTILZAR CONTROLE REMOTO RM-Y116 OU RM-861



RM-861

3-2. AJUSTE DA PLACA A

AJUSTE DA RF DO AGC(VR do bloco de IF)

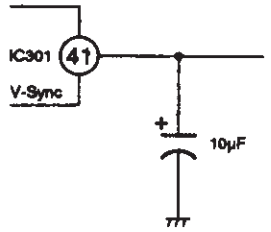
1. Coloque um sinal de barra de côr
2. Ajuste o **AGC-VR** do TU 101 de modo que desapareça neve, ruido e modulação cruzada da imagem.
3. Verifique a qualidade da imagem em cada canal.

AJUSTE DA FREQUÊNCIA HORIZONTAL

1. Coloque sinal de monoscópio.
2. Acesse no **MODO de SERVIÇO**
3. Conecte um frequencimetro a base do Q 550 (Drive TP-86 H)
4. Selecione o item **AFC** com as teclas **1** e **4** , e ajuste com as teclas **3** e **6** para o nível **3** (livre)
5. Verifique frequência Horizontal para **15734 ± 60 Hz**
6. Selecione o item **AFC** com as teclas **1** e **4** ,e ajuste com as teclas **3** e **6** para o nível **1**
7. Escreva na memoria, pressionando **MUTING** e **ENTER**

AJUSTE DA FREQUÊNCIA VERTICAL

1. Selecione a entrada **VIDEO 1** sem sinal de entrada
2. Cloque nos condições de pre ajuste padrão
3. Conecte um capacitor (10 uf) através do pino **(44)** do **IC 301 (V. SYNC)** e terra
4. Conecte o frequênciometro no conector **CN501 VDY (+)** e terra.
5. Verifique a frequência Vertical para **55 ± 0,5 Hz**
6. Retire o capacitor do IC 301



AJUSTE DA ARMADILHA DE CROMA(CROM)

1. Coloque o padrão de tela vermelha.
2. Acesse no **MODO de SERVIÇO**
3. Coloque um osciloscópio no **CN 301** pino **1** (ROUT) e terra da placa C
4. Selecione item **CROM** com as teclas **1** e **4**
5. Ajuste com as teclas **3** e **6** para eliminar componentes de sub-portadora.
6. Escreva na memória pressionando **MUTING** e **ENTER**

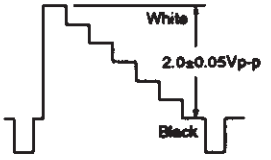
AJUSTE DE SUB-CONTRASTE(SCON)

1. Coloque um sinal de barra em cores
2. Selecione a côr vermelha
3. Acesse para o **MODO de SERVIÇO**
4. Ajuste para a seguinte condição:

CONTRASTE.....**MAX**
COR.....**MIN**
BRILHO.....**CENTRO**

R ON..... **ON (1)**
G ON..... **OFF (0)**
B ON..... **OFF (0)**

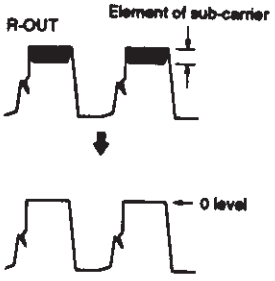
5. Conecte um osciloscópio no pino **1** do **CN301 (ROUT)** da Placa C e terra
6. Selecione **SCON** com as teclas **1** e **4** .
7. Ajuste com as teclas **3** e **6** para obter a leitura de **2,0 ± 0,05 Vp-p.**



8. Escreva na memória, pressionando **MUTING** e **ENTER**
9. Retorne os ajustes ao normal.

CONTRASTE.....**MAX**
COR.....**CENTRO**
BRILHO.....**CENTRO**

R ON..... **ON(1)**
G ON..... **ON(1)**
B ON..... **ON(1)**



AJUSTE DA POSIÇÃO DO DISPLAY

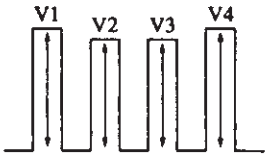
1. Coloque o sinal de barra de cores
2. Acesse o **MODO** de **SERVIÇO**
3. Selecioneo item **DISP** com as teclas **1** e **4**.
4. Ajuste com as teclas **3** e **6** para obter o menu centralizado na tela.
5. Escreva na memória pressionando **MITING** e **ENTER**
6. Verifique- se o texto indicado na tela

AJUSTE DO SUB-BRILHO (SBRT)

1. Coloque um sinal de padrão de linhas cruzadas.
2. Acesse o **MODO** de **SERVIÇO**
3. Ajuste a **CONTRASTE** e o **BRILHO** para o mínimo
4. Selecione o item **SBRT** com as teclas **1** e **4**
5. Ajuste com a teclas **3** e **6** até obteras linhas cruzadas levemente visíveis na tela.
6. Escreva na memória, pressionando **MUTING** e **ENTER**.

AJUSTE DE SUB-HUE E SUB-COR(SHUE,SCOL)

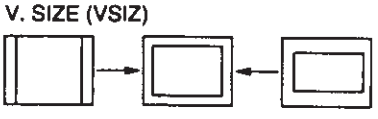
1. Coloque um sinal sinal de barra de cores (NTSC, RF)
2. Acesse o **MODO** de **SERVIÇO**.
3. Conecte um osciloscópio no pino **3** **(B OUT)** do CN 301 da Placa C .
4. Selecione **SHUE** e **SCOL** com as teclas **1** e **4**.
5. Ajuste com as teclas **3** e **6** para que **V 1=V 4** (SCOR) e **V2=V3** (SHUE)



6. Escreva na memória pressionando **MUTING** e **ENTER**

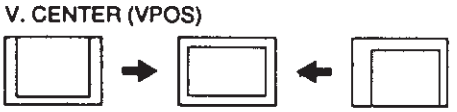
AJUSTE DA ALTURA VERTICAL (VSIZ)

1. Coloque um sinal de linhas cruzadas.
2. Acesse o **MODO** de **SERVIÇO.**
3. Selecione o item **VSIZ** com as teclas **1** e **4**.
4. Ajuste com as teclas **3** e **6** para a melhor altura.
5. Escreva na memória. pressionando **MUTING** e **ENTER**.



AJUSTE DA CENTRALIZAÇÃO VERTICAL(VPOS)

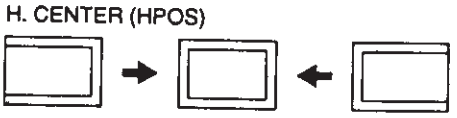
1. Coloque um sinal de linhas cruzadas.
2. Acesse o **MODO** de **SERVIÇO**
3. Selecione item **VPOS** com as teclas **1** e **4**.
4. Ajuste com as teclas **3** e **6** para melhor posição vertical .
5. Escreva na memória, pressionando **MUTING** e **ENTER**.



AJUSTE DA CENTRALIZAÇÃO HORIZONTAL(HPOS)

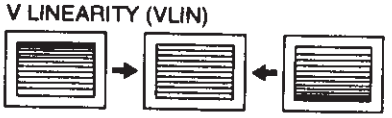
NOTA: Execute este ajuste depois de verificar a frequencia horizontal.

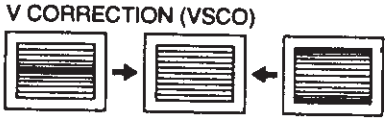
1. Coloque um sinal de padrão de linhas cruzadas.
2. Acesse o **MODO** de **SERVIÇO**
3. Selecione o item **HPOS** com as teclas **1** e **4.**
4. Ajuste com as teclas **3** e **6** melhor,centralização horizontal
5. Escreva na memória, pressionando **MUTING** e **ENTER**



AJUSTES DE LINEARIDADE VERTICAL (VLIN) E CORREÇÃO VERTICAL (VSCO)

1. Coloque um sinal de linhas cruzadas.
2. Acesse o **MODO** de **SERVIÇO**
3. Selecione o item **VLIN** e **VSCO** com as teclas **1** e **4**.
4. Ajuste com as teclas **3** e **6** para a melhor imagem.
5. Escreva na memória. pressionando **MUTING** e **ENTER**

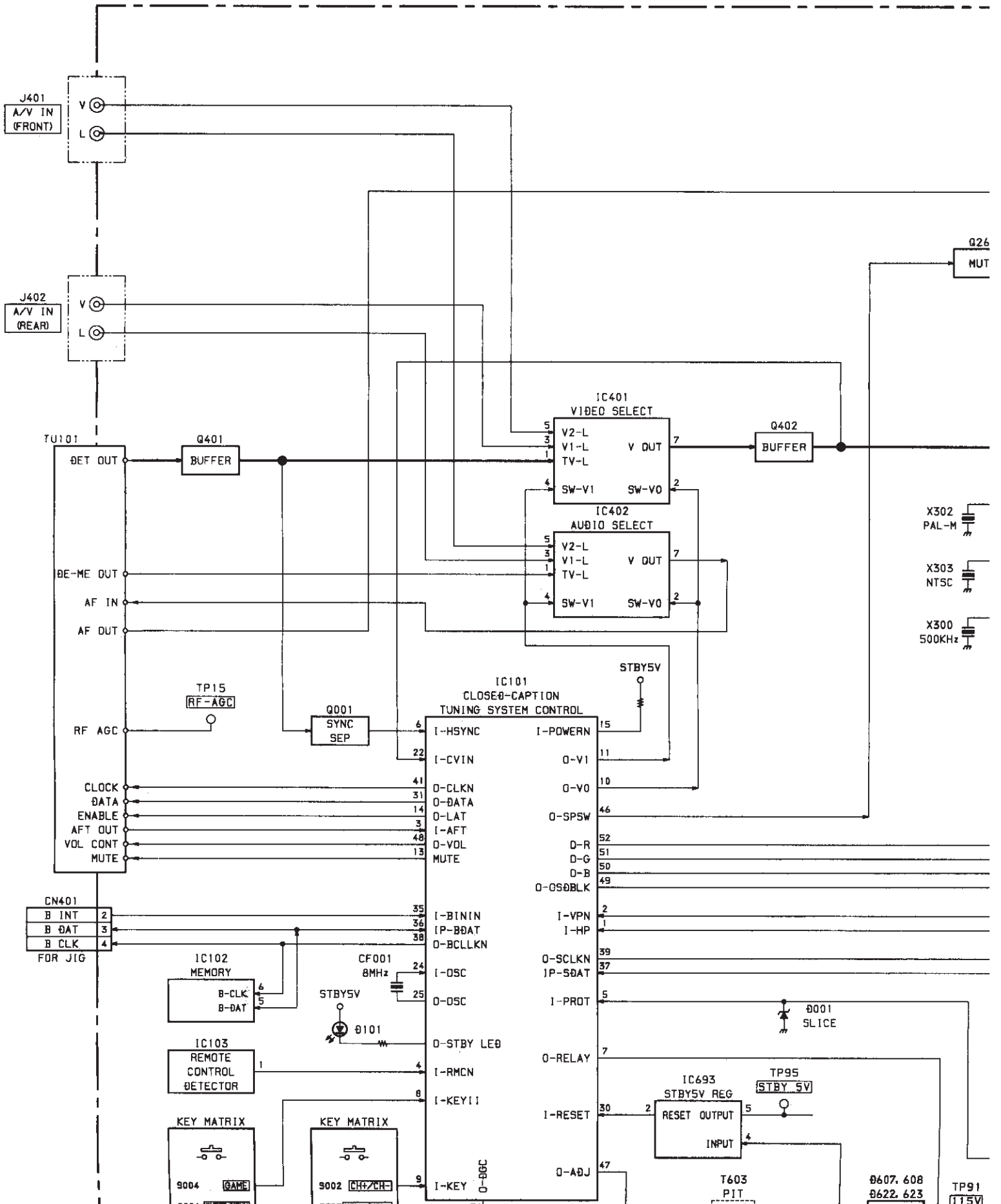


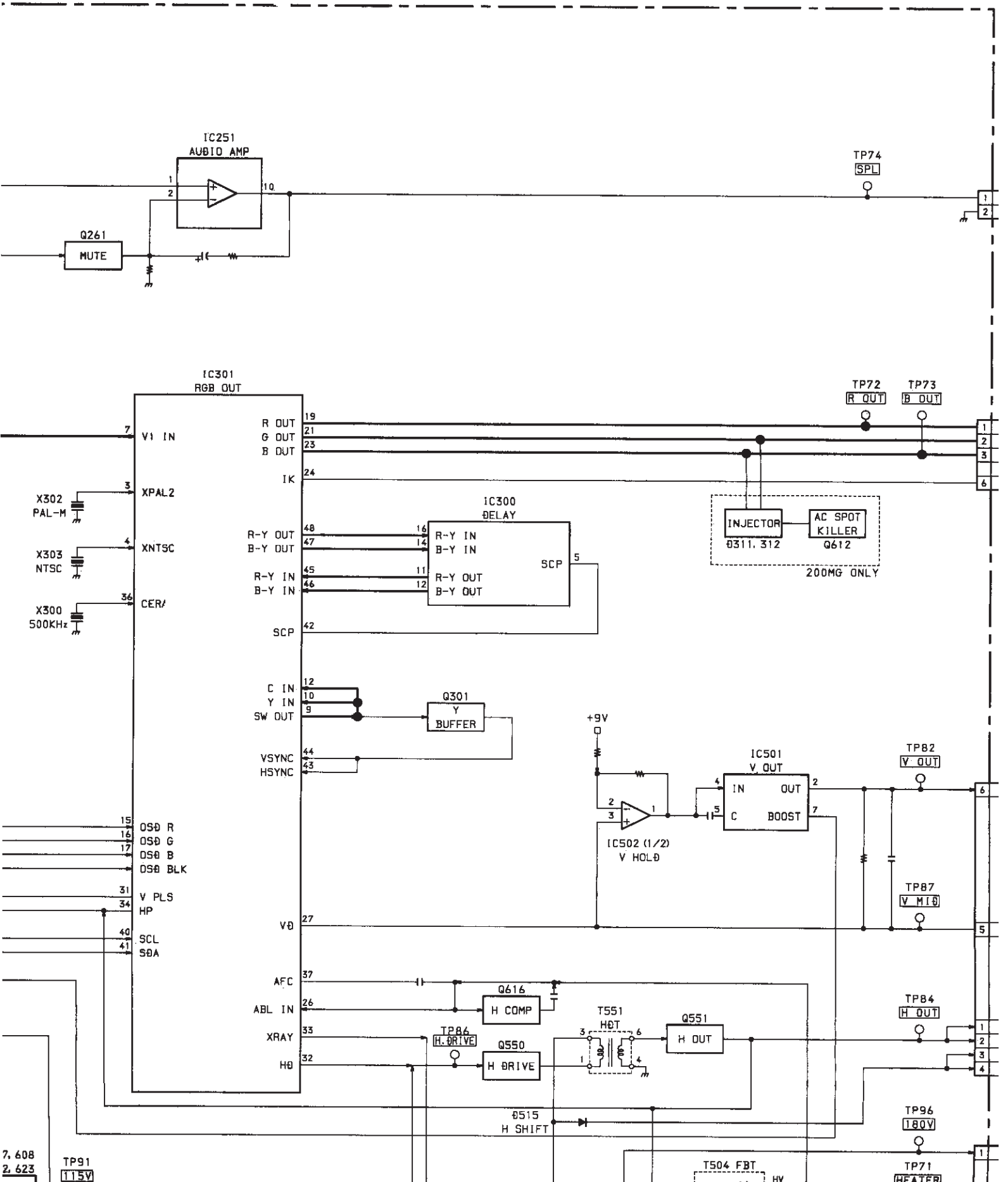


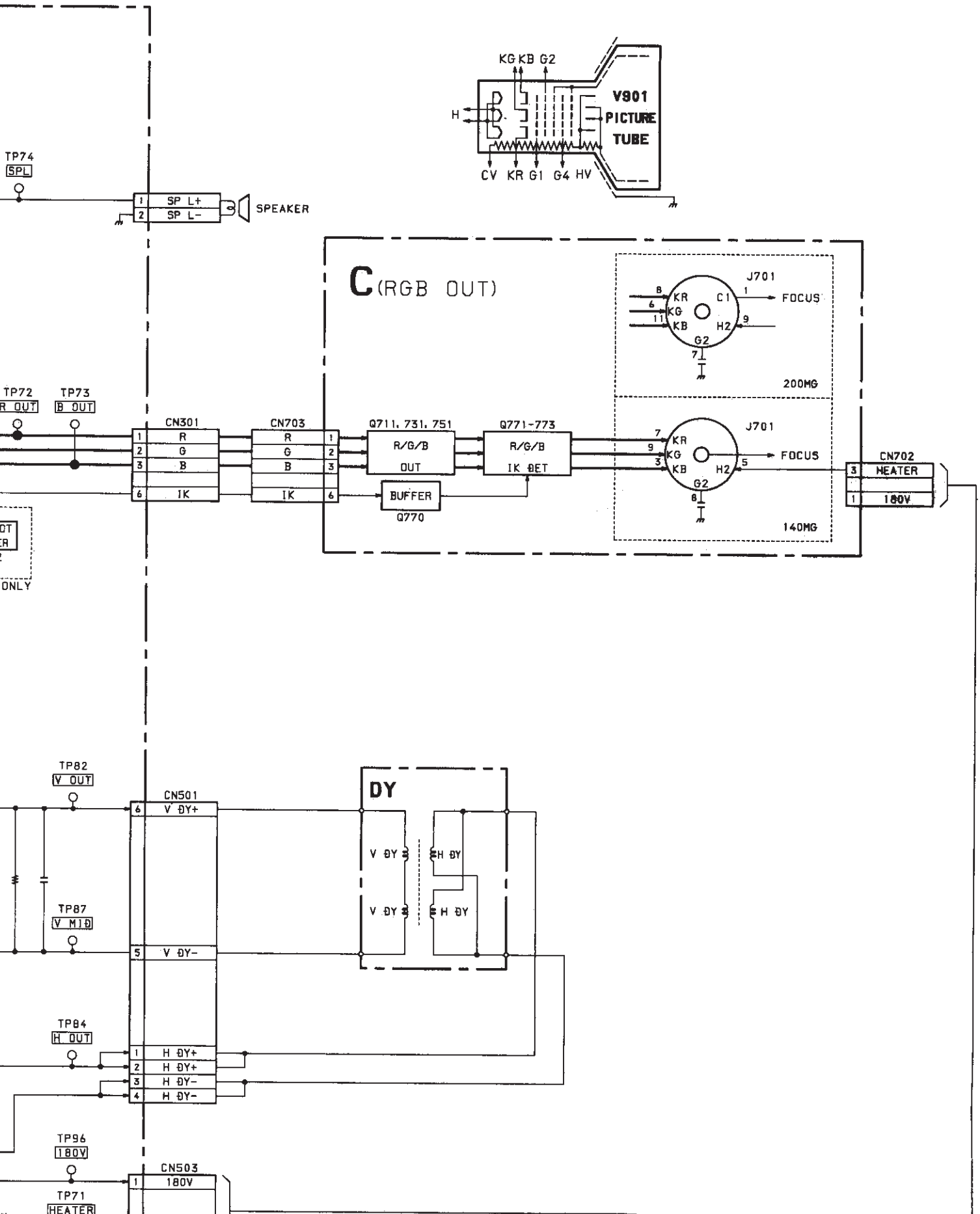
Anotações:

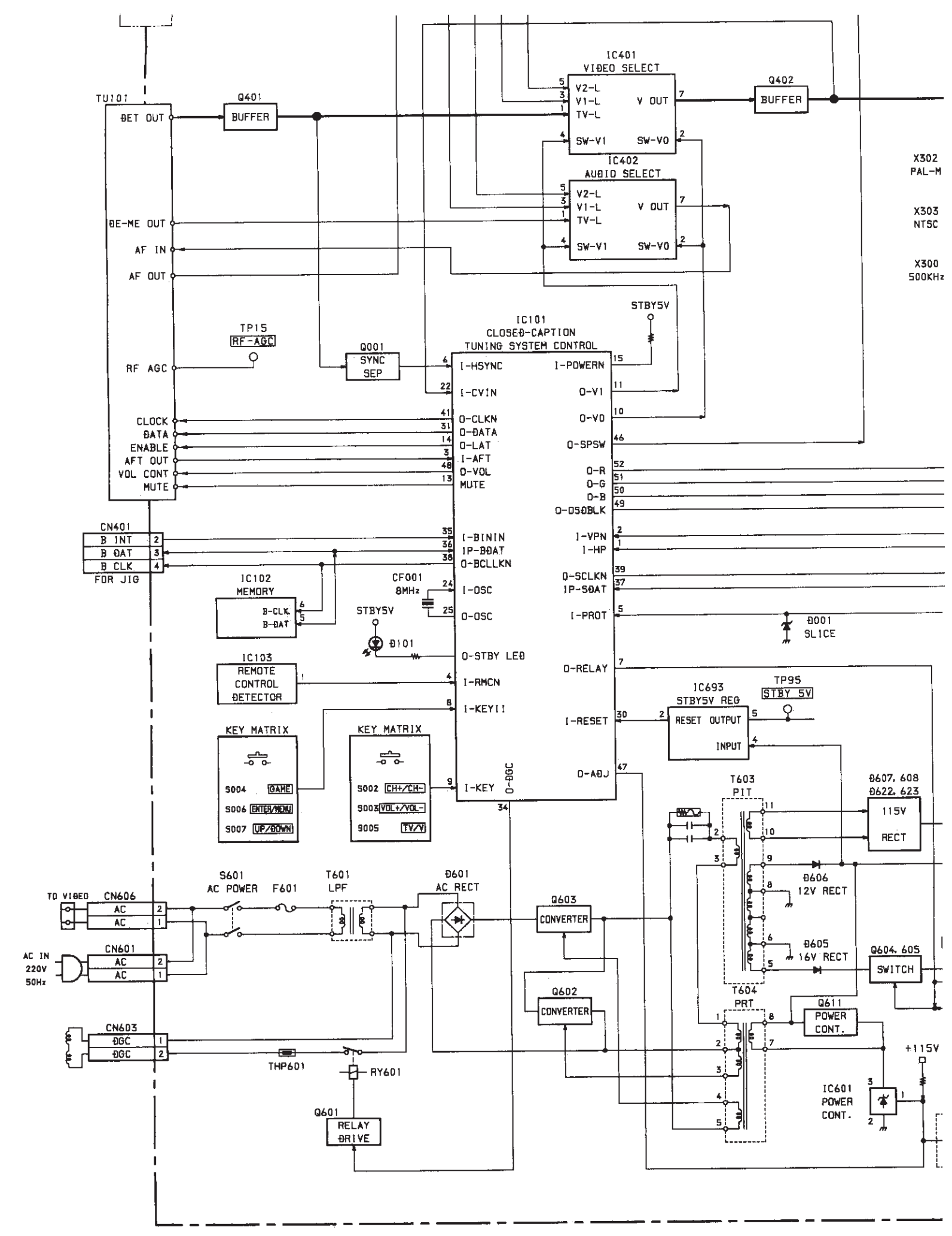
SEÇÃO 4
DIAGRAMAS

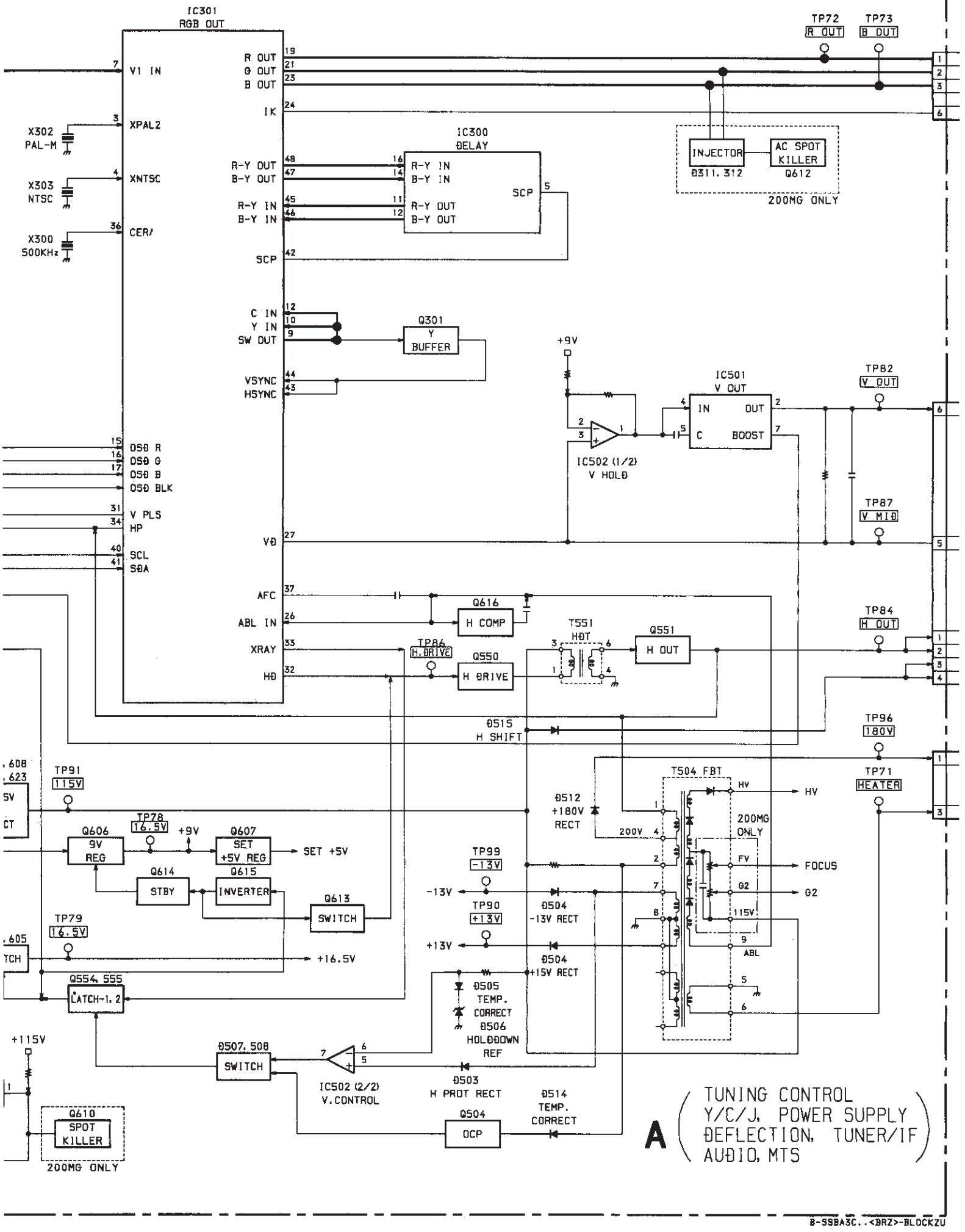
4-1. BLOCK DIAGRAM

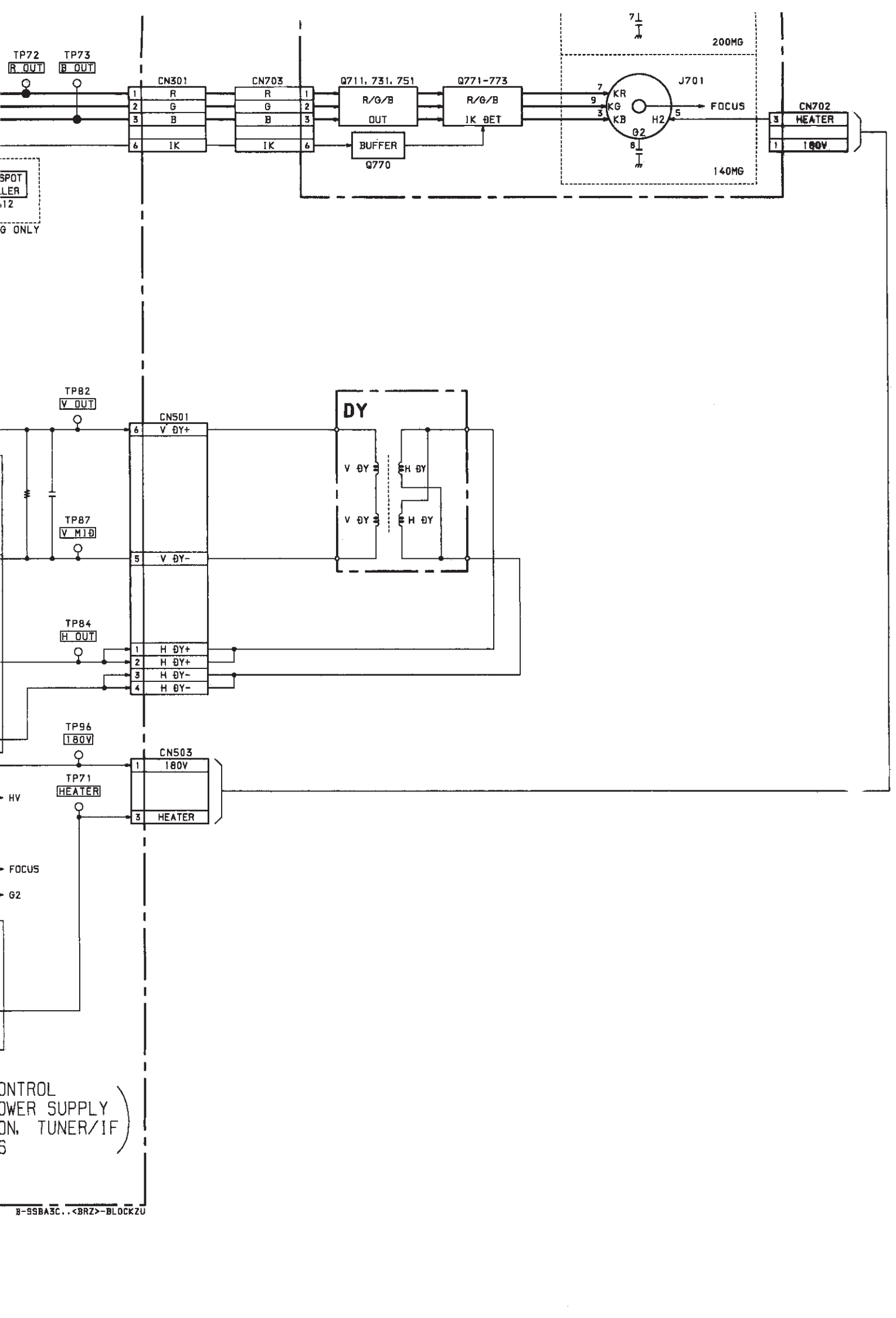



IC251
AUDIO AMP
TP74
SPL
Q261
MUTE
IC301
RGB OUT
V1 IN
XPAL2
XNTSC
CER/
X302
PAL-M
X303
NTSC
X300
500KHz
R OUT
G OUT
B OUT
IK
R-Y OUT
B-Y OUT
R-Y IN
B-Y IN
SCP
C IN
Y IN
SW OUT
VSYNC
HSYNC
OSD R
OSD G
OSD B
OSD BLK
V PLS
HP
SCL
SDA
VD
AFC
ABL IN
XRAY
HD
IC300
DELAY
R-Y IN
B-Y IN
SCP
R-Y OUT
B-Y OUT
TP72
R OUT
TP73
B OUT
INJECTOR
D311, 312
AC SPOT
KILLER
Q612
200MG ONLY
Q301
Y
BUFFER
+9V
IC501
V OUT
IN
OUT
C
BOOST
IC502 (1/2)
V HOLD
TP82
V OUT
TP87
V MID
Q616
H COMP
TP86
H.DRIVE
Q550
H DRIVE
T551
HOT
Q551
H OUT
TP84
H OUT
D515
H SHIFT
TP96
180V
T504 FBT
TP91
115V
TP71
HEATER

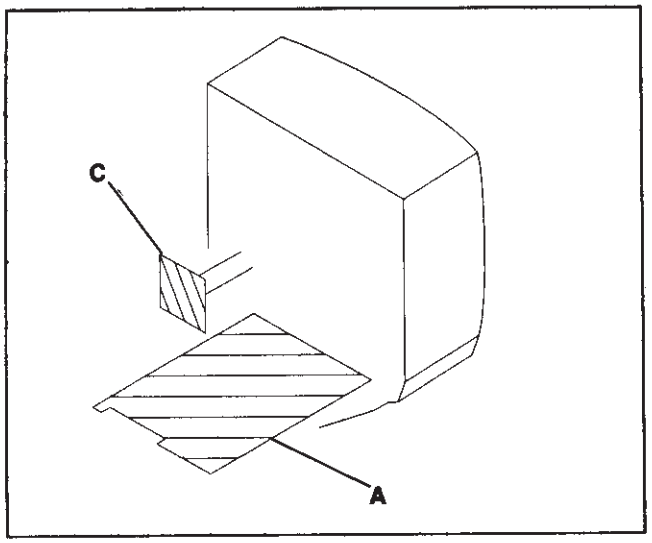

KG KB G2
H
V901
PICTURE
TUBE
CV KR G1 G4 HV
TP74
SPL
1 SP L+
2 SP L-
SPEAKER
C (RGB OUT)
J701
8 KR
6 KG
11 KB
C1
H2
G2
7
1 FOCUS
9
200MG
J701
7 KR
9 KG
3 KB
H2
G2
8
5 FOCUS
140MG
TP72
R OUT
TP73
B OUT
CN301
1 R
2 G
3 B
6 IK
CN703
R 1
G 2
B 3
IK 6
Q711, 731, 751
R/G/B
OUT
BUFFER
Q770
Q771-773
R/G/B
IK DET
CN702
3 HEATER
1 180V
ONLY
TP82
V OUT
CN501
6 V DY+
5 V DY-
DY
V DY
V DY
H DY
H DY
TP87
V MID
TP84
H OUT
1 H DY+
2 H DY+
3 H DY-
4 H DY-
TP96
180V
CN503
1 180V
TP71
HEATER


TU101
DET OUT
AF IN
AF OUT
VOL CONT
MUTE
Q401
BUFFER
IC401
VIDEO SELECT
V2-L
V1-L
TV-L
SW-V1
SW-V0
V OUT
Q402
BUFFER
IC402
AUDIO SELECT
X302
PAL-M
X303
NTSC
X300
500KHz
STBY5V
TP15
RF-AGC
RF AGC
Q001
SYNC SEP
IC101
CLOSED-CAPTION
TUNING SYSTEM CONTROL
I-HSYNC
I-CVIN
O-CLKN
O-DATA
O-LAT
I-AFT
O-VOL
MUTE
I-POWERN
O-V1
O-V0
O-SPSW
O-R
O-G
O-B
O-DSDBLK
CLOCK
DATA
ENABLE
AFT OUT
CN401
B INT
B DAT
B CLK
FOR JIG
I-BININ
IP-BDAT
O-BCLLKN
I-VPN
I-HP
O-SCLKN
IP-SDAT
IC102
MEMORY
B-CLK
B-DAT
CF001
8MHz
I-OSC
O-OSC
I-PROT
D001
SLICE
D101
O-STBY LED
O-RELAY
IC103
REMOTE CONTROL DETECTOR
I-RMCN
I-KEYII
I-RESET
IC693
STBY5V REG
RESET OUTPUT
INPUT
TP95
STBY 5V
KEY MATRIX
S004 GAME
S006 ENTER/MENU
S007 UP/DOWN
S002 CH+/CH-
S003 VOL+/VOL-
S005 TV/V
I-KEY
O-AGC
O-ADJ
T603
PIT
D607, 608
D622, 623
115V RECT
D606
12V RECT
D605
16V RECT
Q604, 605
SWITCH
T604
PRT
Q611
POWER CONT.
+115V
IC601
POWER CONT.
TO VIDEO
CN606
AC
CN601
AC IN
220V
50Hz
CN603
DGC
S601
AC POWER
F601
T601
LPF
D601
AC RECT
Q603
CONVERTER
Q602
CONVERTER
THP601
RY601
Q601
RELAY DRIVE


IC301
RGB OUT
V1 IN
XPAL2
X302
PAL-M
XNTSC
X303
NTSC
CER/
X300
500KHz
R OUT
G OUT
B OUT
IK
R-Y OUT
B-Y OUT
R-Y IN
B-Y IN
SCP
IC300
DELAY
R-Y IN
B-Y IN
R-Y OUT
B-Y OUT
SCP
TP72
R OUT
TP73
B OUT
INJECTOR
Ø311, 312
AC SPOT
KILLER
Q612
200MG ONLY
C IN
Y IN
SW OUT
Q301
Y
BUFFER
VSYNC
HSYNC
+9V
IC501
V OUT
IN
OUT
C
BOOST
IC502 (1/2)
V HOLD
TP82
V OUT
TP87
V MID
OSD R
OSD G
OSD B
OSD BLK
V PLS
HP
SCL
SDA
VD
AFC
ABL IN
XRAY
HD
Q616
H COMP
TP86
H.DRIVE
Q550
H DRIVE
T551
HOT
Q551
H OUT
TP84
H OUT
Ø515
H SHIFT
TP96
180V
TP91
115V
TP78
16.5V
+9V
Q606
9V
REG
Q607
SET
+5V REG
SET +5V
Q614
STBY
Q615
INVERTER
Q613
SWITCH
TP79
16.5V
+16.5V
Q554, 555
LATCH-1, 2
TP99
-13V
-13V
TP90
+13V
+13V
Ø504
-13V RECT
Ø504
+15V RECT
Ø505
TEMP.
CORRECT
Ø506
HOLDDOWN
REF
Ø503
H PROT RECT
Ø514
TEMP.
CORRECT
Q504
OCP
+115V
Ø507, 508
SWITCH
IC502 (2/2)
V.CONTROL
Q610
SPOT
KILLER
200MG ONLY
T504 FBT
Ø512
+180V
RECT
200V
HV
HV
200MG
ONLY
FV
FOCUS
G2
G2
115V
ABL
TP71
HEATER
A
TUNING CONTROL
Y/C/J, POWER SUPPLY
DEFLECTION, TUNER/IF
AUDIO, MTS
B-SSBA3C..<BRZ>-BLOCKZU


TP72
R OUT
TP73
B OUT
CN301
CN703
Q711, 731, 751
Q771-773
R/G/B
OUT
R/G/B
IK SET
BUFFER
Q770
J701
KR
KG
KB
G2
H2
FOCUS
200MG
140MG
CN702
HEATER
180V
SPOT
LER
12
G ONLY
TP82
V OUT
CN501
V DY+
V DY-
TP87
V MID
DY
V DY
H DY
TP84
H OUT
H DY+
H DY+
H DY-
H DY-
TP96
180V
CN503
TP71
HEATER
HV
FOCUS
G2
ONTROL
OWER SUPPLY
ON. TUNER/IF
S
8-9SBA3C..<BRZ>-BLOCKZU

4-2. CIRCUIT BOARDS LOCATION



4-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power: 1/4W

- 1/4w in resistance, 1/10W in chip resistance.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- When replacing the part in below table, be sure to perform the related adjustment.
- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list.
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- ✱ : Measurement impossibility.
- Circled numbers are waveform reference.
- : B + bus.
- : B – bus.
- : signal path.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFRAMMABLE FUSIBLE
	: RW	NONFRAMMABLE WIREWOUND
	: RS	NONFRAMMABLE METAL OXIDE
	: RB	NONFRAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The symbol display is on the component side.

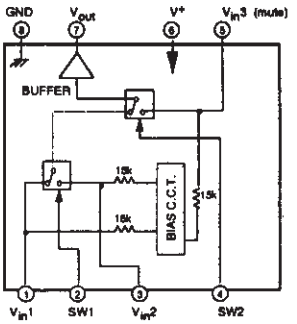
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

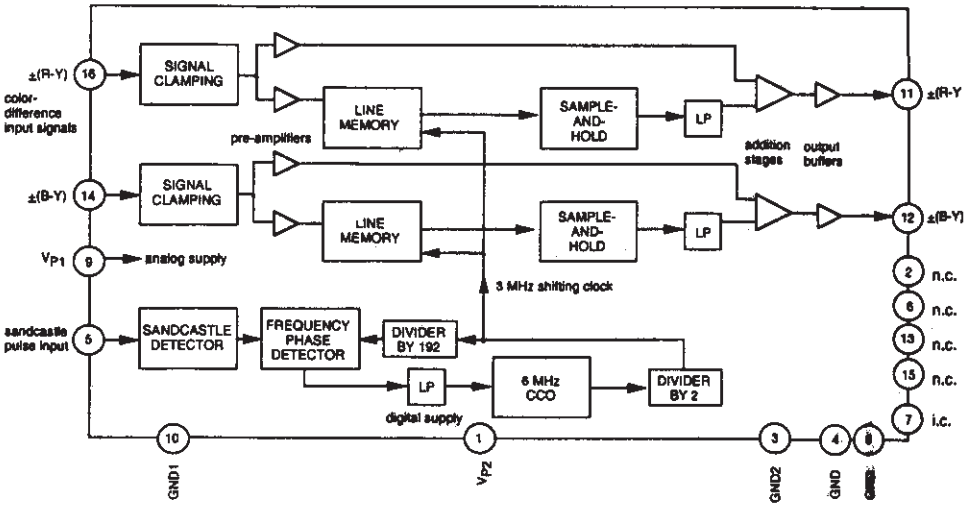
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme valeur, comme maque.

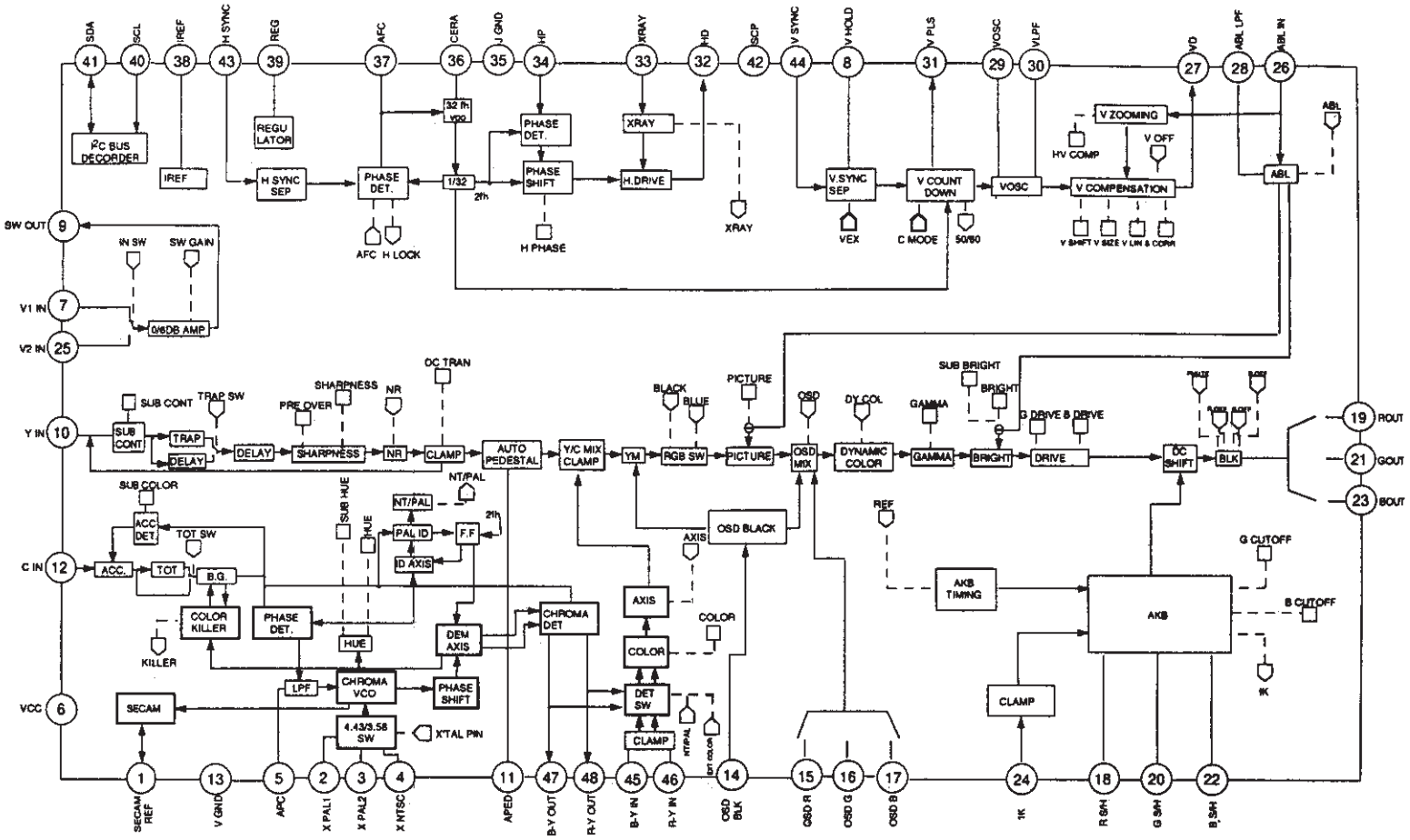
A BOARD IC401, 402 NJM2234M



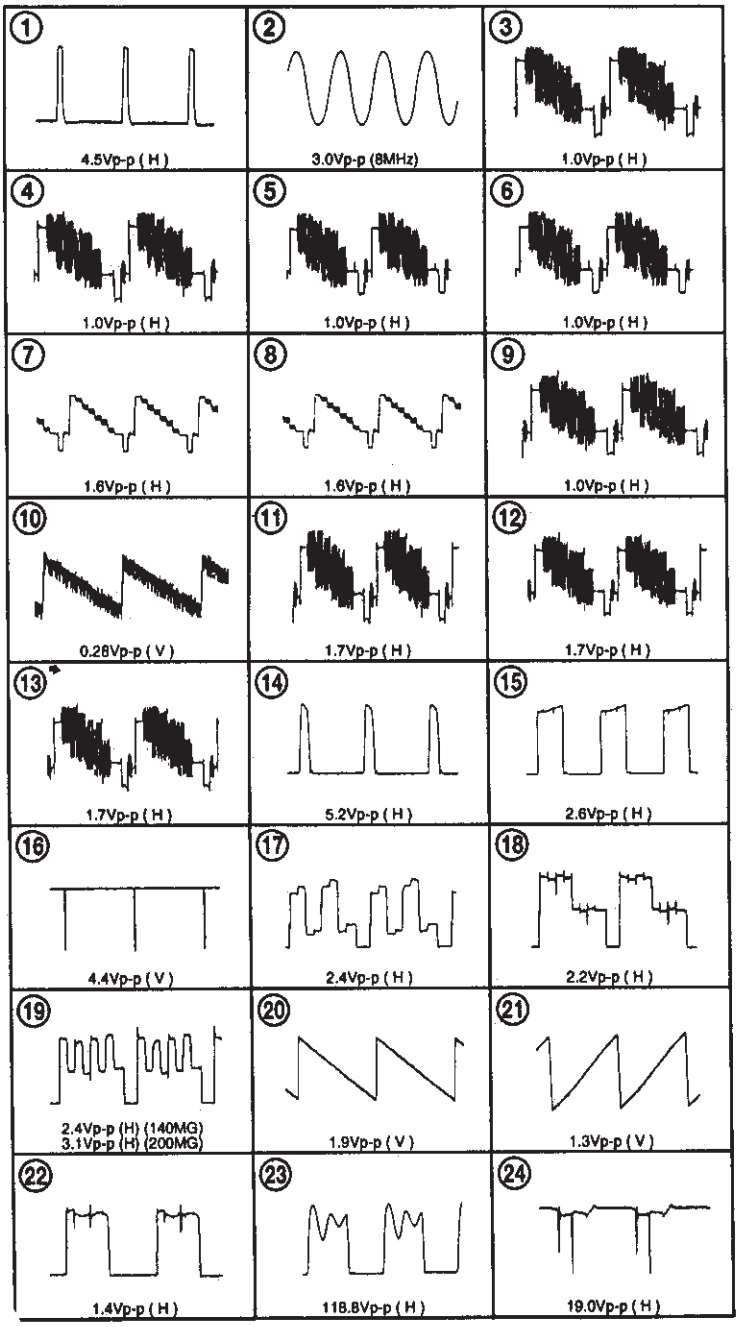
A BOARD IC300 TDA4462T

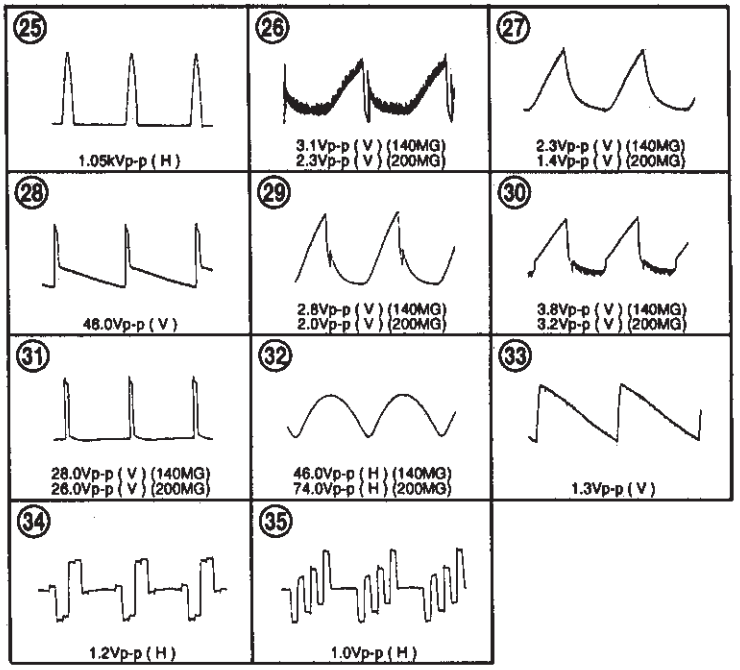


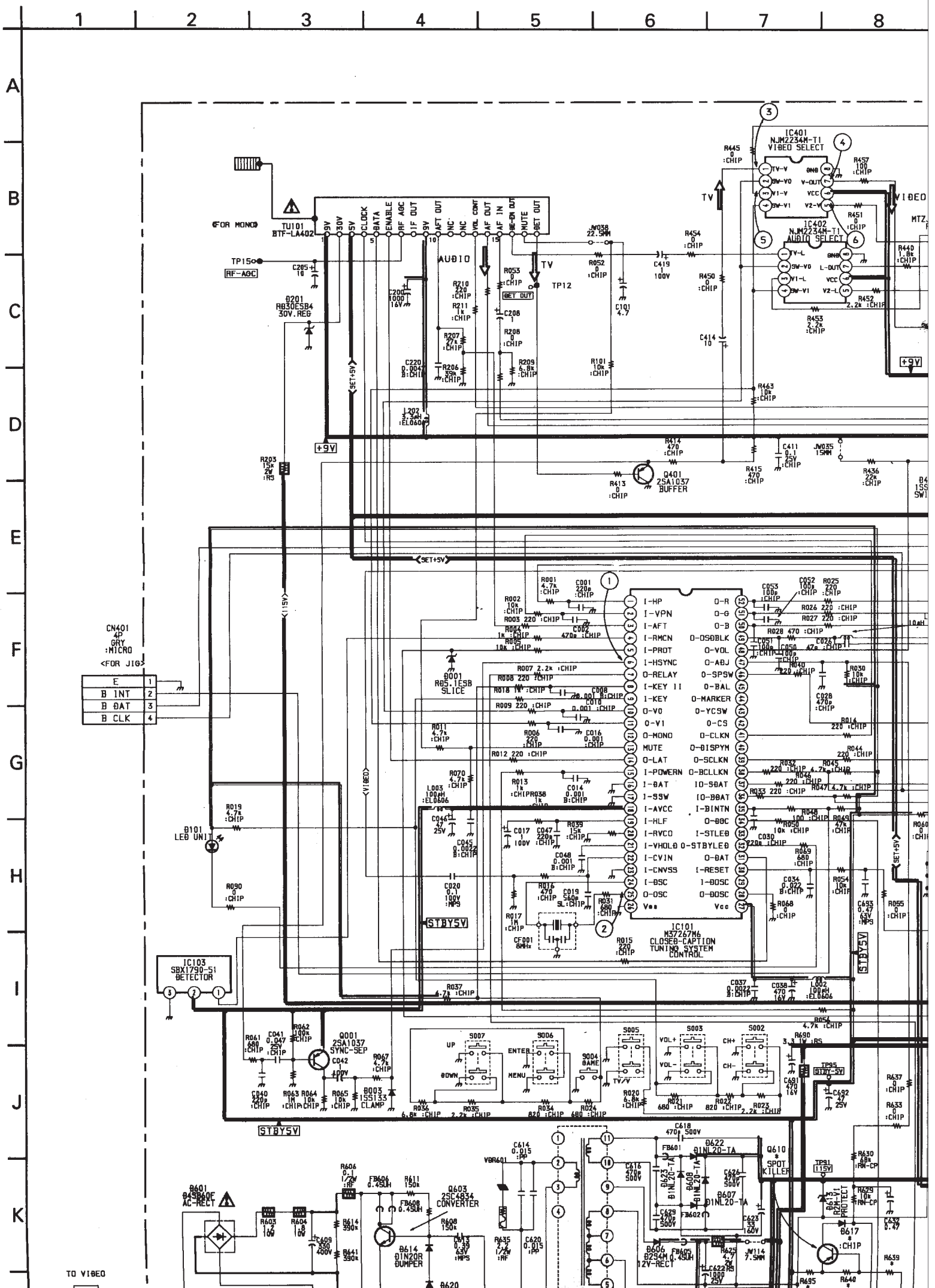
A BOARD IC301 CXA1871S



A BOARD


①
4.5Vp-p (H)
②
3.0Vp-p (8MHz)
③
1.0Vp-p (H)
④
1.0Vp-p (H)
⑤
1.0Vp-p (H)
⑥
1.0Vp-p (H)
⑦
1.6Vp-p (H)
⑧
1.6Vp-p (H)
⑨
1.0Vp-p (H)
⑩
0.28Vp-p (V)
⑪
1.7Vp-p (H)
⑫
1.7Vp-p (H)
⑬
1.7Vp-p (H)
⑭
5.2Vp-p (H)
⑮
2.6Vp-p (H)
⑯
4.4Vp-p (V)
⑰
2.4Vp-p (H)
⑱
2.2Vp-p (H)
⑲
2.4Vp-p (H) (140MG)
3.1Vp-p (H) (200MG)
⑳
1.9Vp-p (V)
㉑
1.3Vp-p (V)
㉒
1.4Vp-p (H)
㉓
118.8Vp-p (H)
㉔
19.0Vp-p (H)


㉕
1.05kVp-p (H)
㉖
3.1Vp-p (V) (140MG)
2.3Vp-p (V) (200MG)
㉗
2.3Vp-p (V) (140MG)
1.4Vp-p (V) (200MG)
㉘
46.0Vp-p (V)
㉙
2.8Vp-p (V) (140MG)
2.0Vp-p (V) (200MG)
㉚
3.8Vp-p (V) (140MG)
3.2Vp-p (V) (200MG)
㉛
28.0Vp-p (V) (140MG)
26.0Vp-p (V) (200MG)
㉜
46.0Vp-p (H) (140MG)
74.0Vp-p (H) (200MG)
㉝
1.3Vp-p (V)
㉞
1.2Vp-p (H)
㉟
1.0Vp-p (H)


1
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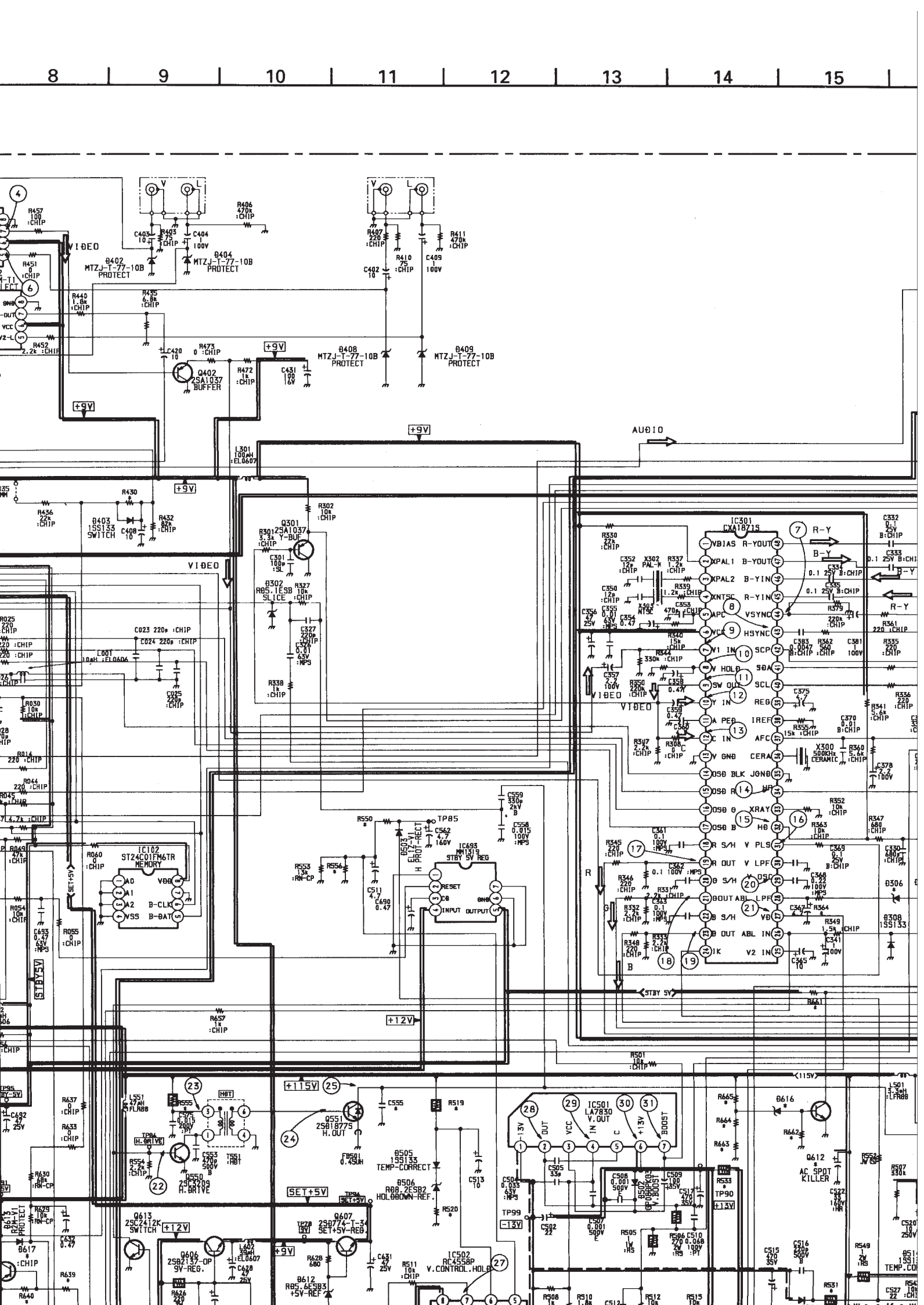
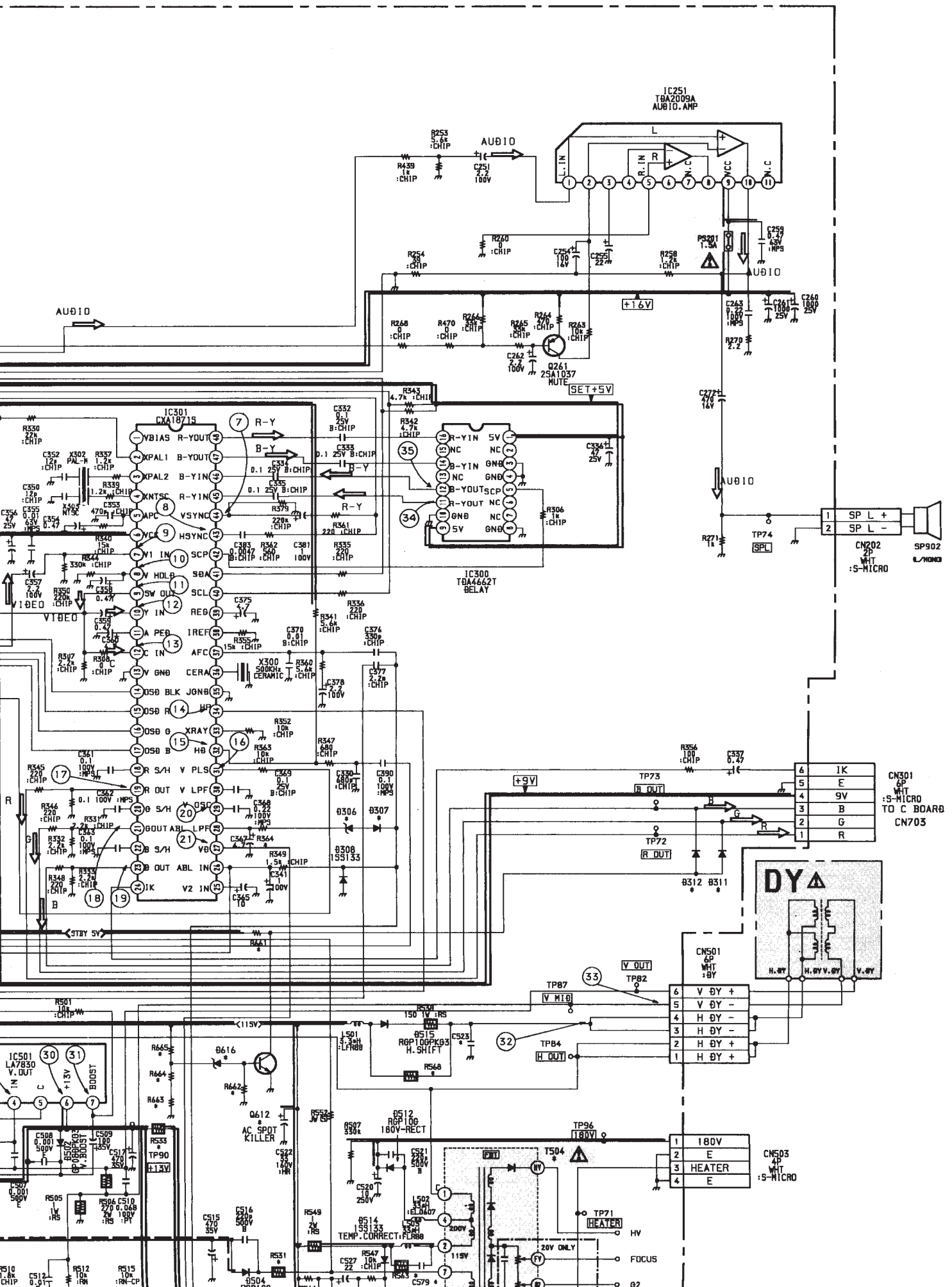
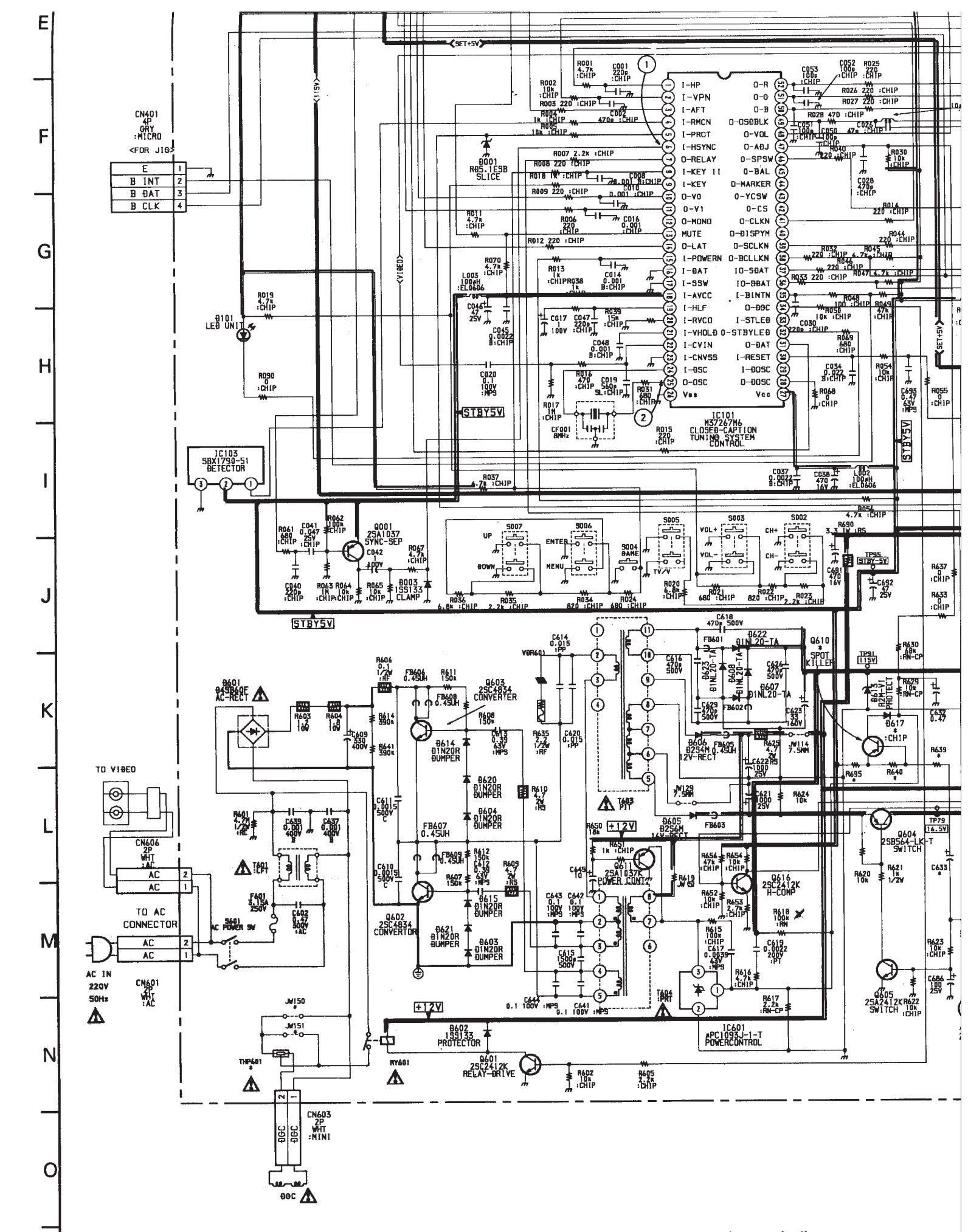
7
8
A
B
C
D
E
F
G
H
I
J
K
FOR MONO
TU101
BTF-LA402
TP15
RF-AGC
AUDIO
TV
TP12
D201
RB30ES84
30V.REG
+9V
SET+5V
115V
VIDEO
IC401
NJM2234M-T1
VIDEO SELECT
IC402
NJM2234M-T1
AUDIO SELECT
Q401
2SA1037
BUFFER
CN401
4P
GRY
:MICRO
<FOR JIG>
E
B INT
B DAT
B CLK
D001
RB5.1ES8
SLICE
B101
LED UNIT
IC101
M37267M6
CLOSED-CAPTION
TUNING SYSTEM
CONTROL
IC103
SBX1790-51
DETECTOR
STBY5V
Q001
2SA1037
SYNC-SEP
D003
1SS133
CLAMP
S007
S006
S005
S004
S003
S002
TP95
STBY-5V
B601
B45B60F
AC-RECT
Q603
2SC4834
CONVERTER
D614
D1N20R
BUMPER
D620
D622
D1NL20-TA
D623
D1NL20-TA
D608
D1NL20-TA
D607
D1NL20-TA
Q610
SPOT
KILLER
TP91
115V
D606
B294M
12V-REC
D617
TO VIDEO

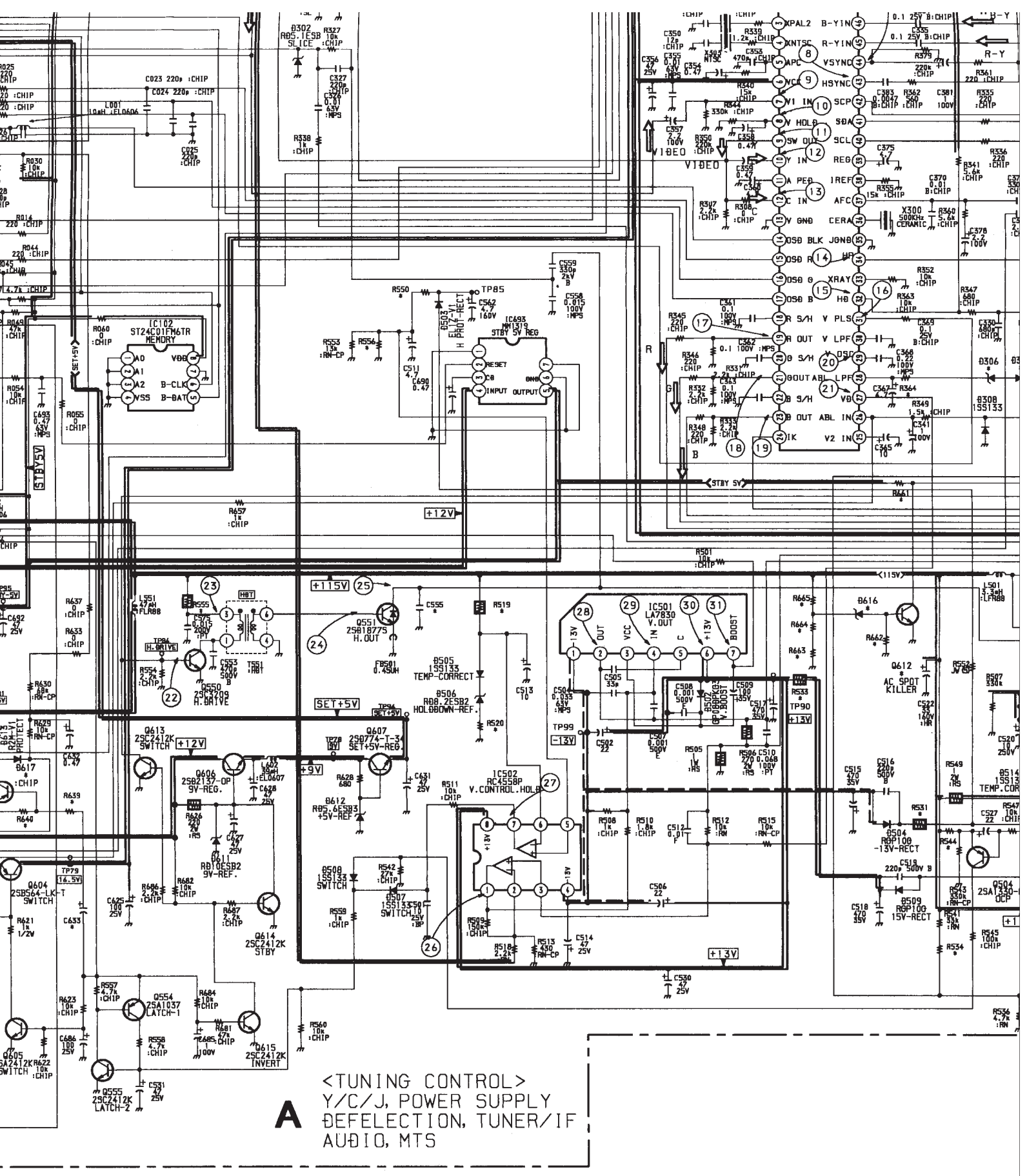

8
9
10
11
12
13
14
15
VIDEO
AUDIO
+9V
+12V
+115V
-13V
STBY 5V
SET+5V
IC301
CXA1871S
R-Y
B-Y
IC501
LA7830
V.OUT
IC502
RC4558P
V.CONTROL.HOLD
IC102
ST24C01FM6TR
MEMORY
IC693
MM1319
STBY 5V REG
Q301
2SA1037
Y-BUF
Q402
2SA1037
BUFFER
Q606
2SB2137-OP
9V-REG.
Q607
2SB774-T-3
SET+5V-REG.
Q613
2SC2412K
SWITCH
Q550
2SK2709
H.DRIVE
Q551
2SB1877S
H.OUT
Q612
AC SPOT
KILLER
D402
MTZJ-T-77-10B
PROTECT
D404
MTZJ-T-77-10B
PROTECT
D408
MTZJ-T-77-10B
PROTECT
D409
MTZJ-T-77-10B
PROTECT
D403
1SS133
SWITCH
D302
RD5.1ESB
SLICE
D503
EL1Z-V1
PROT-RECT
D505
TEMP-CORRECT
D506
RD8.2ESB2
HOLDDOWN-REF.
D612
RD5.6ESB3
+5V-REF
D306
1SS133
D308
1SS133
TP85
TP90
TP95
TP98
TP99
X300
500KHz
CERAMIC
X302
PAL-M
X303
NTSC


IC251
T0A2009A
AUDIO.AMP
AUDIO
+16V
Q261
2SA1037
MUTE
SET+5V
IC301
CXA1871S
IC300
T0A4662T
DELAY
VIDEO
CN202
2P
WHT
:S-MICRO
SP902
SP L +
SP L -
TP74
SPL
CN301
6P
WHT
:S-MICRO
TO C BOARD
CN703
IK
E
9V
B
G
R
TP73
B OUT
TP72
R OUT
DY
CN501
6P
WHT
:DY
V DY +
V DY -
H DY -
H DY -
H DY +
H DY +
TP87
V OUT
TP82
TP84
H OUT
IC501
LA7830
V.OUT
TP90
+13V
STBY 5V
115V
Q612
AC SPOT
KILLER
TP96
180V
CN503
4P
WHT
:S-MICRO
180V
E
HEATER
E
TP71
HEATER
T504
HV
FOCUS
G2
20V ONLY
+9V

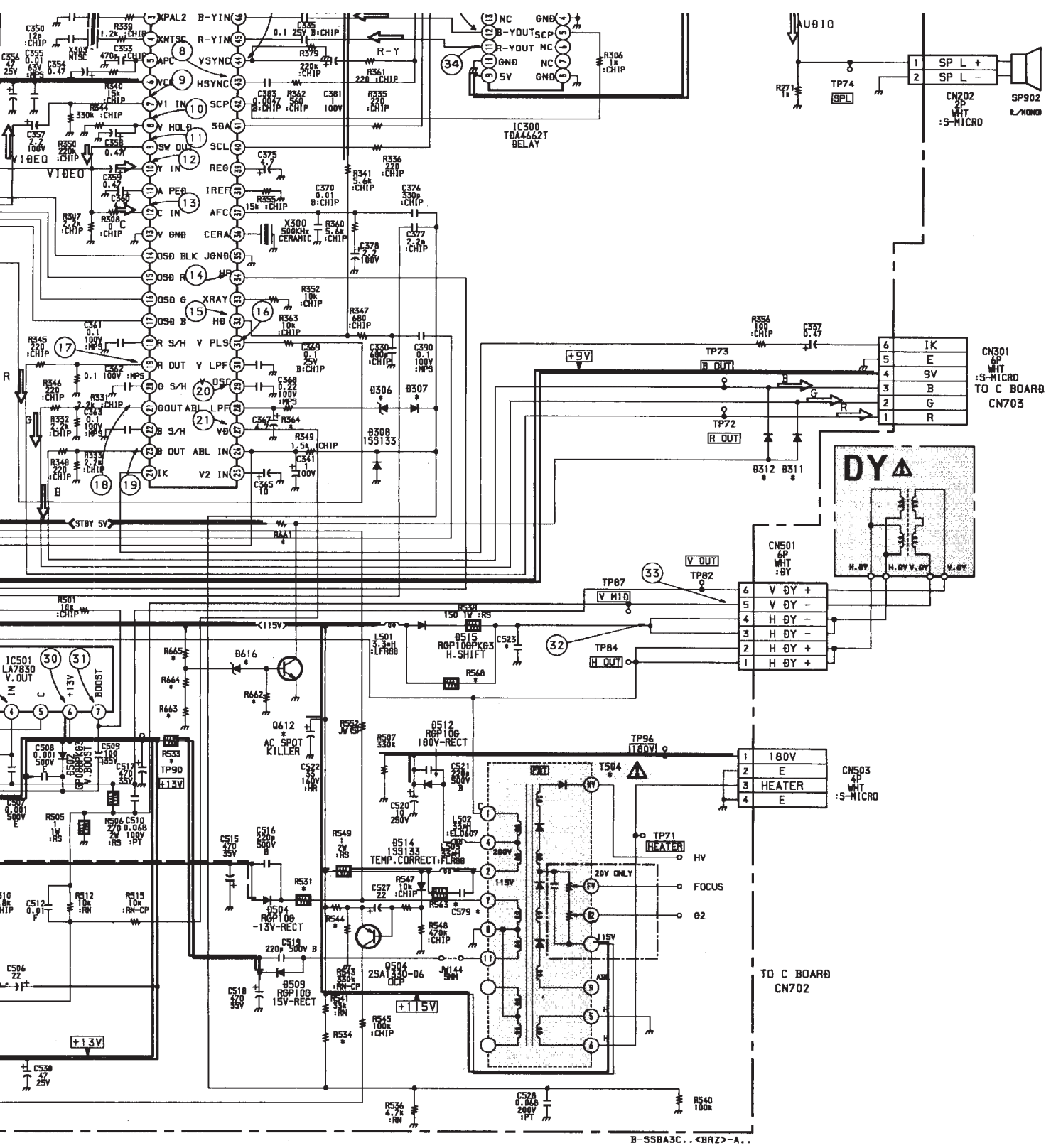


Schematic diagram

A board ➡



A <TUNING CONTROL>
Y/C/J, POWER SUPPLY
ÐEFELECTION, TUNER/IF
AUÐIO, MTS


IC300
T0A4662T
DELAY
AUDIO
SP L +
SP L -
CN202
2P
WHT
:S-MICRO
SP902
L/MONO
TP74
SPL
VIDEO
CN301
6P
WHT
:S-MICRO
TO C BOARD
CN703
IK
E
9V
B
G
R
TP73
R OUT
TP72
R OUT
Q312 Q311
DY
CN501
6P
WHT
:BY
V OUT
TP82
TP87
V MID
TP84
H OUT
V DY +
V DY -
H DY -
H DY +
H DY +
IC501
LA7830
V.OUT
+13V
BOOST
+115V
Q616
Q612
AC SPOT
KILLER
Q512
RGP10G
180V-RECT
TP96
180V
CN503
4P
WHT
:S-MICRO
180V
E
HEATER
E
T504
TP71
HEATER
HV
FOCUS
G2
20V ONLY
Q504
-13V-RECT
Q509
RGP10G
15V-RECT
Q504
2SA1330-06
DCP
Q514
155133
TEMP.CORRECT
Q515
RGP10GPKG3
H.SHIFT
TO C BOARD
CN702
B-SSBA3C..<BRZ>-A..

A BOARD * MARK LIST

	KV-140MG	KV-200MG
C523	0.43 200V :PP	0.33 200V :PP
C555	#	330P 2KV :B
C579	0.015 100V :PT	0.01 200V :PT
C633	#	10
D306	#	RD6.8ESB2
D307	#	1SS133
D311	#	1SS355TE-17
D312	#	1SS355TE-17
D616	#	RD8.2ESTIB2
D617	#	1SS355TE-17
JW038	22.5MM	22.5MM
JW150	#	7.5MM
JW151	5MM	#
Q610	#	2SA1037
Q612	#	2SC2412K
R364	#	1k :CHIP
R430	#	#
R432	82k :CHIP	82k :CHIP
R519	47k 2W :RS	56k 2W :RS
R520	1k :RN-CP	680 :RN-CP
R531	4.7 1W :RS	1 1W :RS
R533	6.8 1W :RS	10 1W :RS
R534	68k :RS	56k :RS
R544	1.3k :RN-CP	1.6k :RN-CP
R550	120k :RN	110k :RN
R555	8.2k 2W :RS	6.8k 2W :CHIP
R556	100k :RN-CP	33k :RN-CP
R563	22 2W :RS	10 2W :RS
R568	220 1W :RS	#
R639	#	4.7k :CHIP
R640	#	33k :CHIP
R661	#	820 :CHIP
R662	#	100k :CHIP
R663	#	2.2k :CHIP
R664	#	22k :CHIP
R665	#	220k
R695	#	33k :CHIP
T504	AT2079	AT2078
THP601	POSISTOR 1-801-494-11	POSISTOR 1-801-495-11

Mark : not mounted

A BOARD

REF.	Pin No.	VOLTAGE
IC101	①	0.3
	②	4.4
	③	2.1
	④	4.9
	⑤	0.3
	⑥	0.1
	⑦	4.9
	⑧	4.9
	⑨	4.9
	⑩	0
	⑪	0
	⑬	0
	⑭	0.1
	⑮	4.9
	⑲	0
	⑳	0
	㉑	0
	㉒	0.1
	㉔	2.1
	㉕	2.3
	㉖	0
	㉚	4.9
	㉛	4.9
	㉜	4.9
	㉞	4.9
	㉟	4.9
	㊱	4.9
	㊲	4.9
	㊳	4.9
	㊴	4.9
	㊶	0
	㊻	17.6
	㊼	2.5
	㊽	0.1
	㊾	0
	㊿	0
	(51)	0
	(52)	0
IC102	⑤	4.9
	⑥	4.9
IC103	①	4.9
IC251	①	1.3
	②	0.7
	③	10.5
	⑤	0
	⑩	8.0
IC300	⑤	0.9
	⑪	2.9
	⑫	2.9
	⑭	1.4
	⑯	1.4
IC301	①	1.3
	②	4.2
	③	1.9
	④	2.6
	⑤	5.5
	⑦	2.3
	⑧	2.7
	⑨	2.5

REF.	Pin No.	VOLTAGE
IC301	⑩	4.1
	⑪	3.9
	⑫	2.6
	⑭	0.1
	⑮	0
	⑯	0
	⑰	0
	⑱	7.2
	⑲	1.3
	⑳	7.2
	㉑	1.2
	㉒	6.9
	㉓	1.4
	㉔	2.5
	㉕	2.0
	㉖	1.3
	㉗	2.9
	㉙	6.8
	㉘	4.5
	㉚	4.7
	㉛	4.5
	㉜	1.8
	㉝	0
	㉞	3.3
	㊱	2.3
	㊲	3.4
	㊳	2.7
	㊴	6.9
	㊵	4.9
	㊶	4.9
	㊷	0.9
	㊸	3.2
	㊹	4.1
	㊺	5.5
	㊻	5.5
	㊼	4.9
	㊽	4.9
IC402	①	5.4
	②	0
	③	5.5
	④	0.2
	⑤	5.5
	⑦	4.7
IC501	②	0.1
	④	-12.2
	⑤	-12.1
	⑦	-11.7
IC502	①	-10.7
	②	1.4
	③	1.4
	⑤	10.2
	⑥	10.8
	⑦	-11.6
IC601	①	2.5
	②	0
	③	9.3
IC693	②	4.9
	③	4.9

A [TUNING CONTROL, Y/C/J, POWER SUPPLY, DEFLECTION, TUNER/IF, AUDIO, MTS]

A BOARD

REF.		VOLTAGE
Q001	C	0.8
	B	5.2
Q261	E	17.7
	C	0.7
	B	17.5
Q301	E	3.2
	B	2.6
Q401	E	5.0
	B	4.3
Q402	E	5.3
	B	4.7
Q504	E	113.9
	C	0
	B	113.4
Q550	C	50.7
	B	0
Q551	E	0
	C	115.2
	B	0
Q554	E	4.0
	C	0
	B	4.0
Q555	C	4.0
	B	0
Q601	C	11.0
	B	0
Q602	C	130.0
	B	-1.4
Q603	E	131.0
	C	277.0
	B	130.0
Q604	B	16.9
Q605	C	0.1
	B	0.7
Q606	B	9.7
Q607	B	5.7
Q610	E	4.9
	C	0.1
	B	4.9
Q611	E	9.3
	B	12.7
Q612	C	0.1
	B	0.7
Q613	C	0
	B	0
Q614	C	9.7
	B	0.1
Q615	C	0.1
	B	0.6
Q616	E	0.4
	C	3.8
	B	0.9

	MUTING MODE ON		
	E	C	B
Q261	17.0	17.0	16.4

IC401, IC402		
	2 PIN	4 PIN
TV	0	0.2
VIDEO 1	4.8	0.2
VIDEO 2	0	4.7

A BOARD

IC

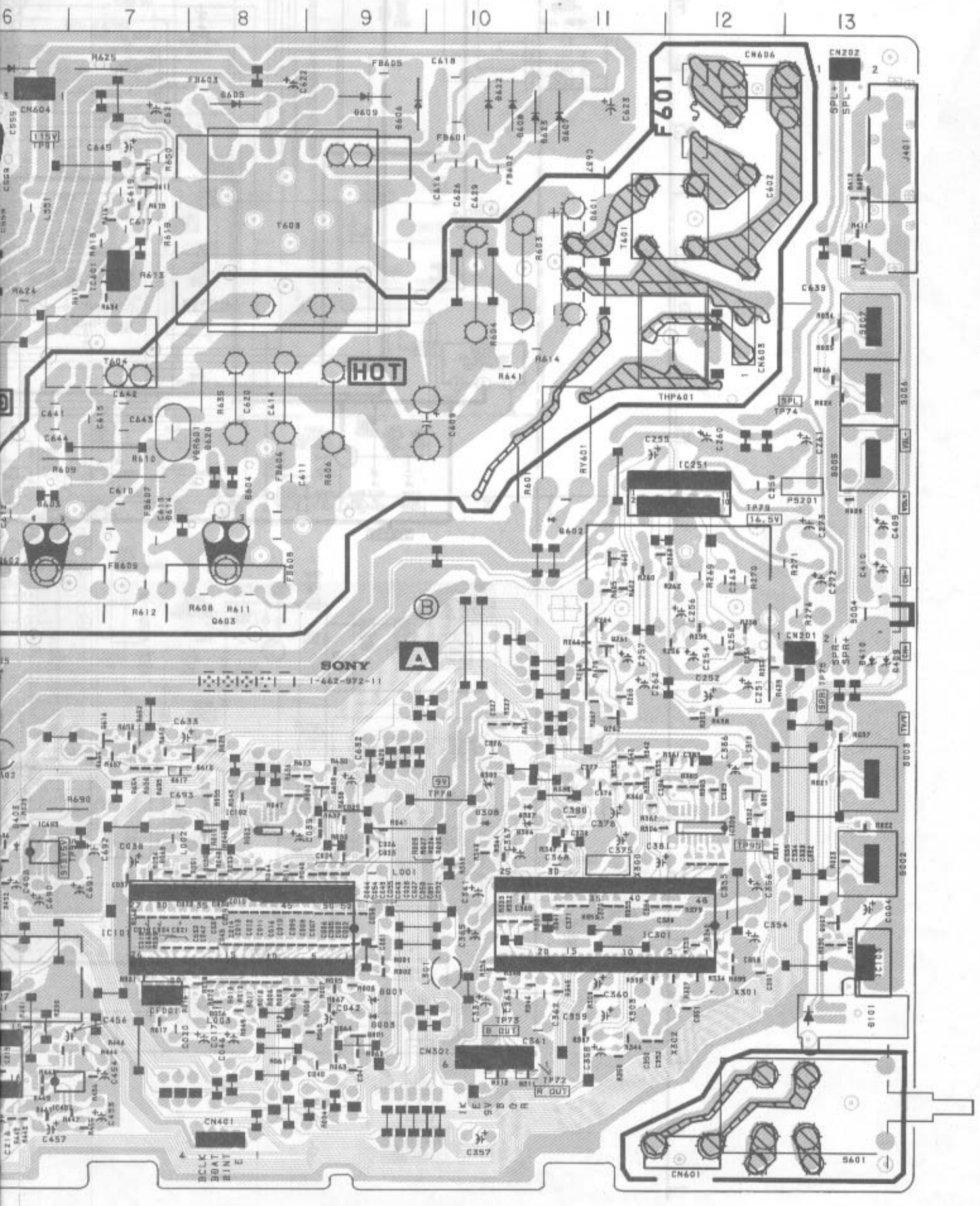
IC101	H-8
IC102	G-8
IC103	H-13
IC251	D-12
IC300	G-12
IC301	H-11
IC401	J-2
IC402	J-3
IC501	E-3
IC502	F-3
IC601	C-7
IC693	G-6

TRANSISTOR

Q001	I-9
Q261	F-11
Q301	G-12
Q401	I-5
Q402	I-2
Q504	D-3
Q550	C-5
Q551	B-5
Q554	D-4
Q555	D-4
Q601	E-11
Q602	E-6
Q603	E-8
Q604	F-6
Q605	F-5
Q606	G-5
Q607	H-2
Q610	G-8
Q611	B-7
Q612	D-4
Q613	G-5
Q614	G-5
Q615	G-5
Q616	F-7

DIODE

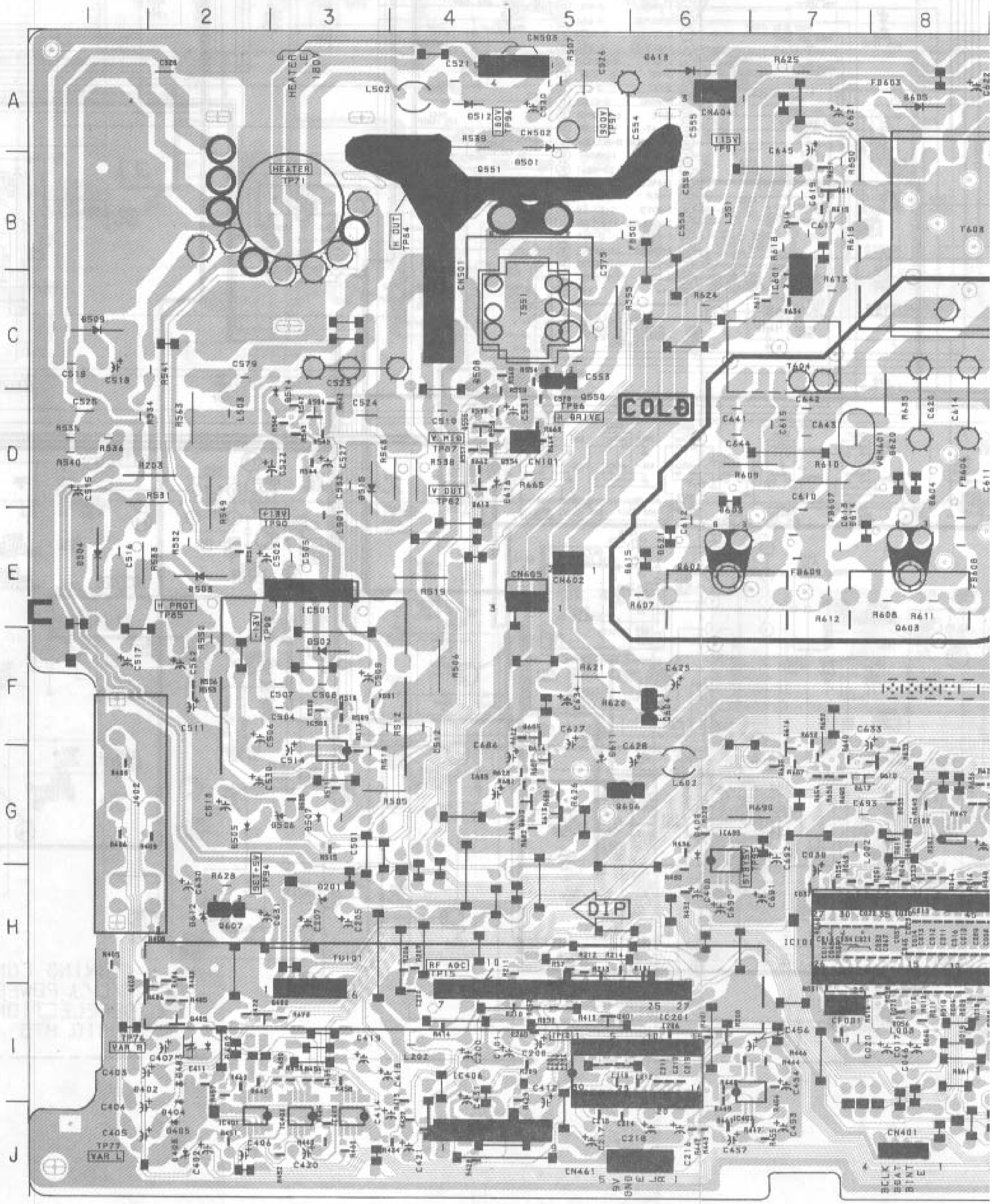
D001	I-9
D003	I-9
D101	I-13
D201	H-3
D302	G-10
D306	G-10
D307	G-10
D308	G-10
D311	I-10
D312	I-10
D402	I-2
D403	G-6
D404	J-2
D408	J-2
D409	F-13
D502	F-3
D503	E-2
D504	E-1
D505	G-2
D506	G-3
D507	G-3
D508	C-4
D509	C-1
D512	A-4
D514	C-3
D515	D-3
D601	B-11
D602	E-11
D603	D-6
D604	D-8
D605	A-8
D606	A-9
D607	A-11
D608	A-10
D611	G-5
D612	H-2
D613	A-6
D614	E-7
D615	E-6
D616	D-4
D617	G-7
D620	D-8
D621	E-6
D622	A-10
D623	A-10



Schematic diagram

C board ➡

– A BOARD –



1
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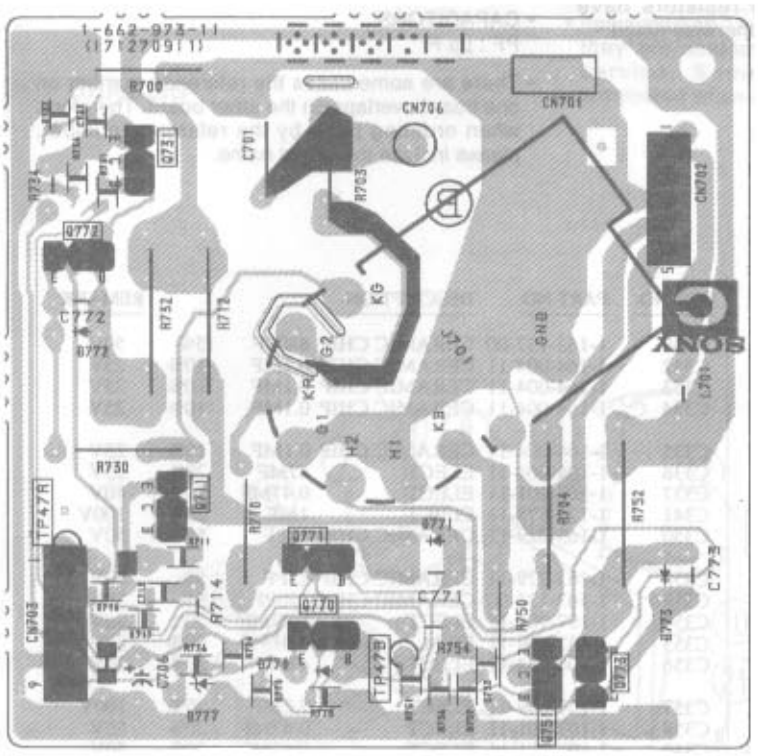
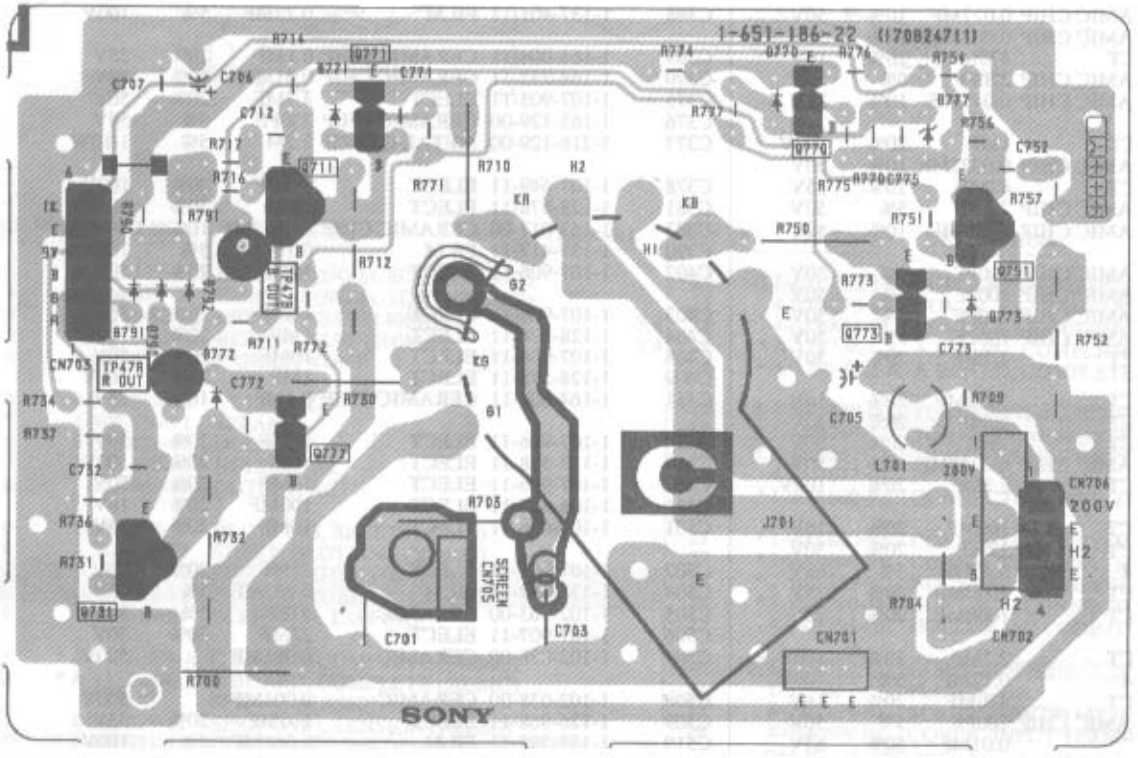
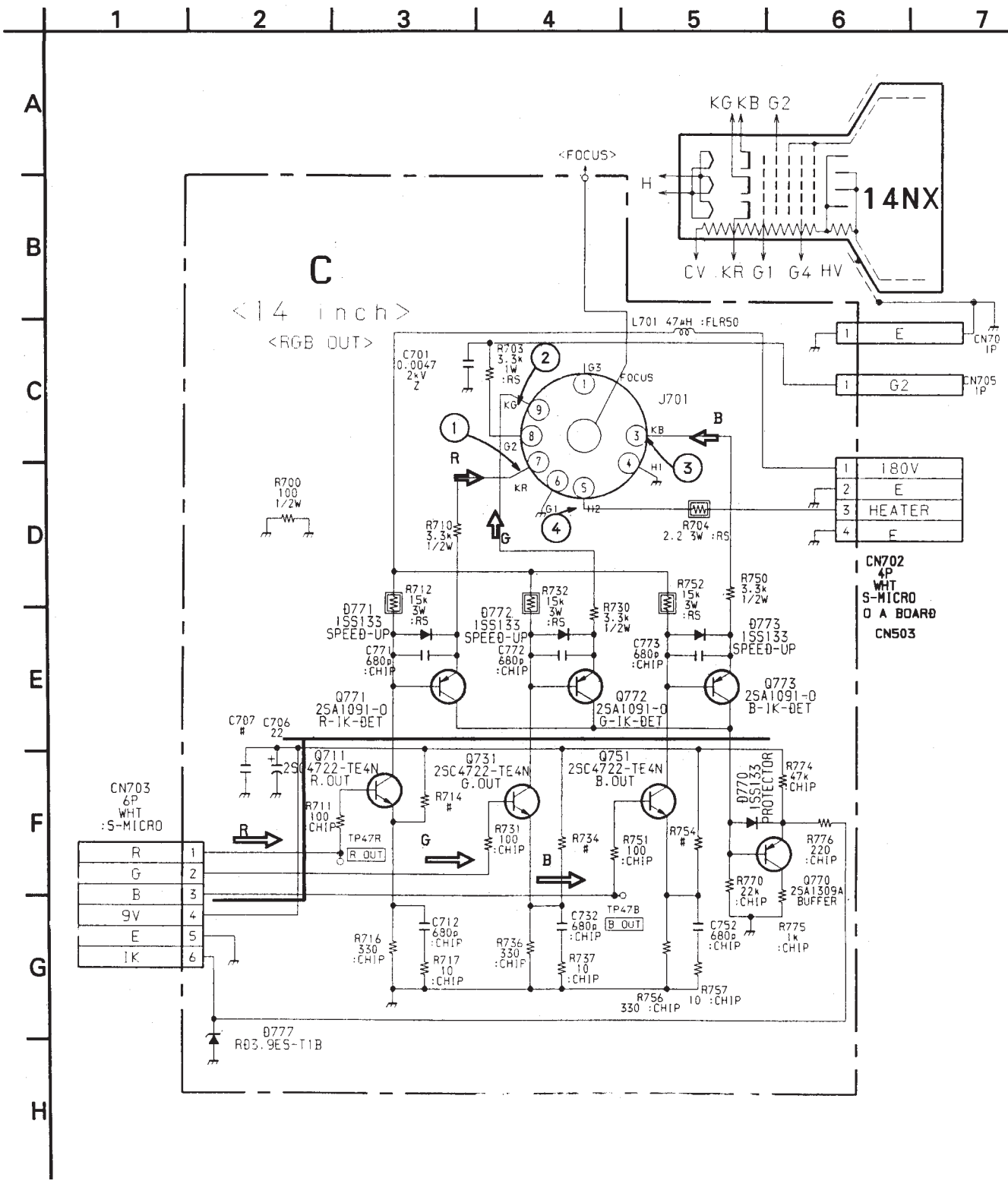
6
7
8
A
B
C
D
E
F
G
H
I
J
HEATER
TP71
H OUT
TP84
CN501
T551
COLD
H DRIVE
V OUT
TP82
CN101
IC501
DIP
RF AGC
TP15
CN461
CN401
L602

– C BOARD – (KV-140MG)



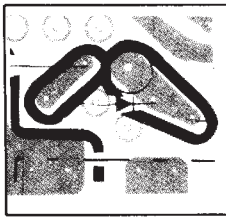
– C BOARD – (KV-200MG)



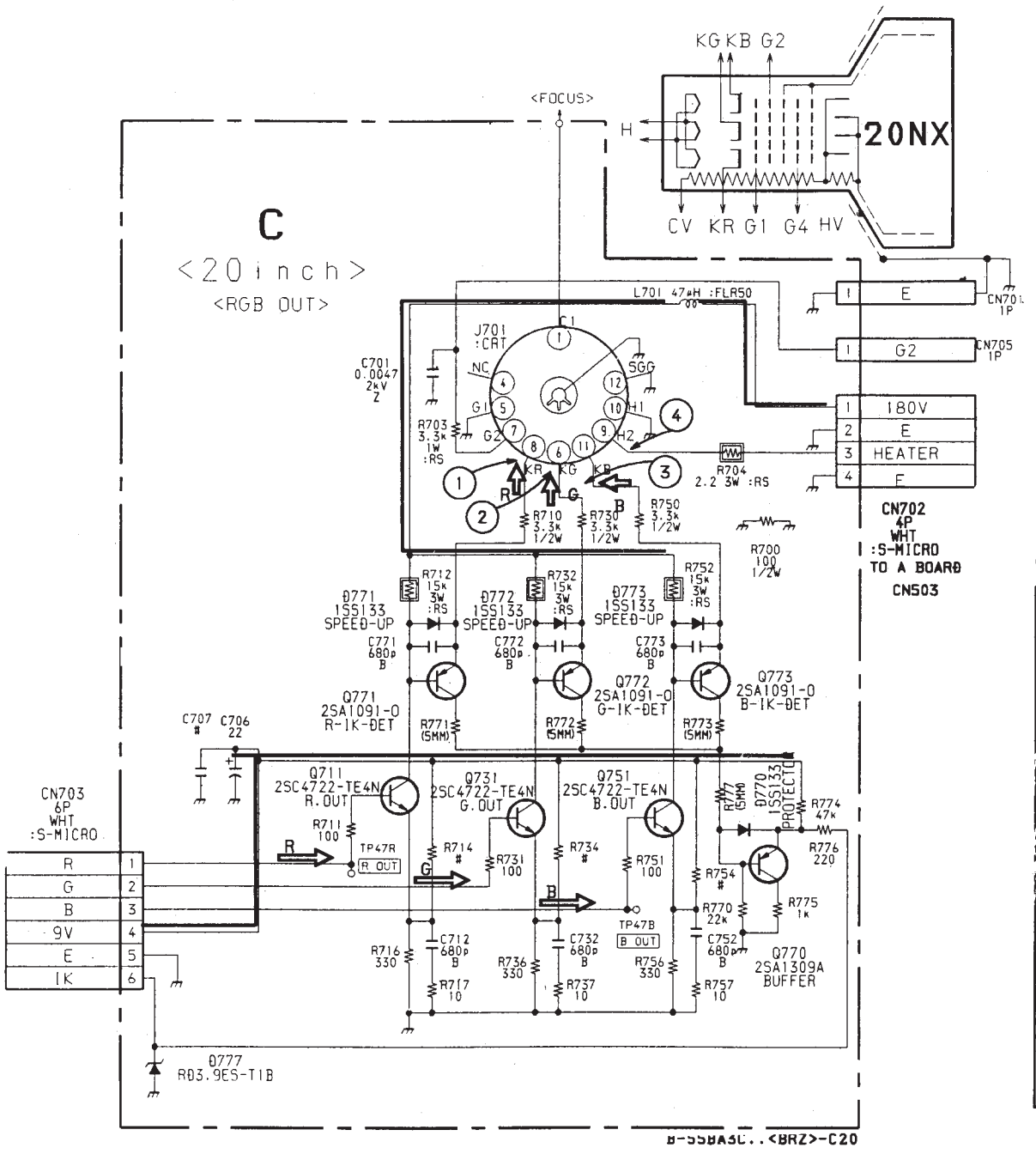


C BOARD (KV-140M

REF.		VOLTAGE
Q711	E	0.9
	C	177.6
	B	1.3
Q731	E	0.7
	C	183.6
	B	1.2
Q751	E	0.9
	C	172.3
	B	1.4
Q770	E	2.0
	C	0.2
	B	2.1
Q771	E	174.9
	C	2.1
	B	177.6
Q772	E	180.9
	C	2.1
	B	183.6
Q773	E	169.7
	C	2.1
	B	172.3



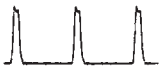
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



C BOARD (KV-200MG)

REF.		VOLTAGE
Q711	E	1.1
	C	159.2
	B	1.6
Q731	E	1.0
	C	160.4
	B	1.5
Q751	E	1.4
	C	148.4
	B	1.8
Q770	E	2.5
	C	0.1
	B	2.6
Q771	E	155.9
	C	2.6
	B	159.2
Q772	E	156.7
	C	2.6
	B	160.4
Q773	E	145.3
	C	2.6
	B	148.5

C BOARD

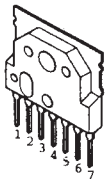
①	②	③	④
			
110.0Vp-p (H) (140MG) 90.0Vp-p (H) (200MG)	90.0Vp-p (H)	110.0Vp-p (H) (140MG) 100.0Vp-p (H) (200MG)	26.0Vp-p (H) (140MG) 20.0Vp-p (H) (200MG)

4-4. SEMICONDUCTORS

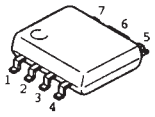
CXA1871S

TOP VIEW
SDIP 48PIN

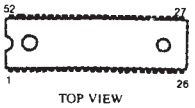
LA7830



MM1319AFBE

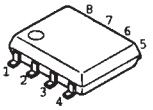


M37267M6-070SP

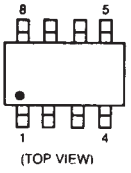


TOP VIEW
DIP 52PIN

NJM2234M

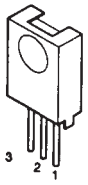


RC4558PS-E20
ST24C01FM6TR

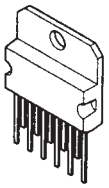


(TOP VIEW)

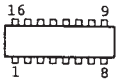
SBX1790-51



TDA2009A

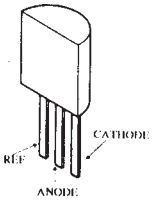


TDA4662T-V2-T

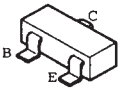


TOP VIEW

µPC1093J-1-T

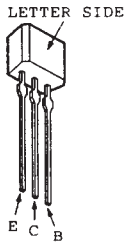


2SA1037K-T-146-QR
2SA1162G
2SA1330-06
2SA1330-T106
2SB564-LK-T
2SC1623-L5-L6
2SC2412K-T-146-QR

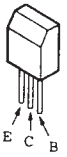


2SA1091-O
2SC4722TE4N

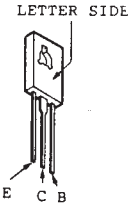
2SA1175-HFE
2SA1309A-QRSTA



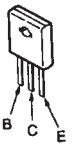
2SB733-34
2SC3209LK
2SC3209LK-TP
2SD774-34
2SD774-T-34



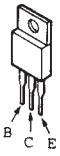
2SC2611



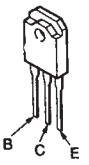
2SC4834EMNP



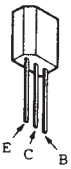
2SD1877S-SONY-CA



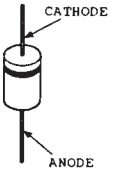
2SD2136-R(TA)



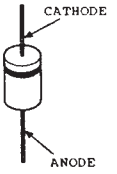
2SD2137-OP-TA



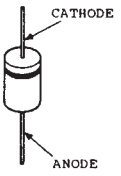
D1N20R
D1N20R-TA2
MTZJ-T-77-10B
RD10ESB2
RD30ESB2
RD3.9ESB2
RD5.1ESB1
RD5.6ESB3
RD6.8ESB2
RD8.2ESB2
R2M
R2M-V1



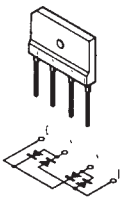
D1NL20-TA
EL1Z
EL1Z-V1
GP08D
RGP10GPKG3



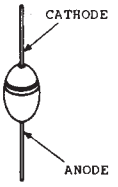
D2S4MF
D2S4MTA1
D2S6M
D2S6MTA1



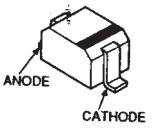
D4SB60L
D4SB60L-F



GP08DPKG3



1SS355
1SS355TE-17



SEÇÃO 5
VISTA EXPLODIDA

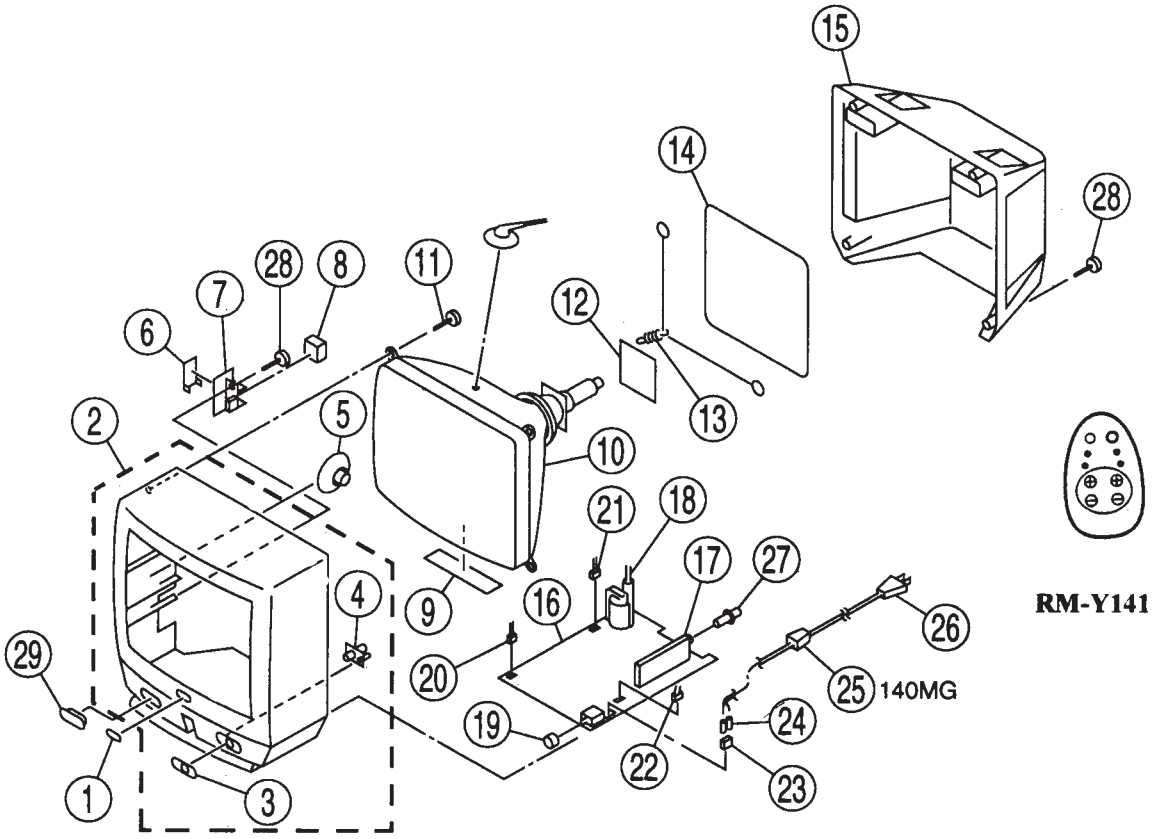
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

5-1. CHASSIS



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-393-157-01	EMBLEM (NO.6), SONY (140MG)	
1	4-394-072-01	EMBLEM (NO.8), SONY (200MG)	
2	X-0514-824-0	BEZNET ASSY (140MG)	3,4
2	X-0514-832-0	BEZNET ASSY (200MG)	3,4
3	4-055-875-01	PANEL, FRONT	
4	4-055-874-01	GUIDE, LED	
5	1-505-450-11	SPEAKER	
6	4-055-879-01	DOOR, AC	
7	4-055-878-01	HOLDER, AC	
8	1-251-461-11	OUTLET, AC	
9	4-046-443-01	BLOTTING, SHEET (140MG)	
9	4-385-725-71	SHEET, BLOTTING (200MG)	
10	⚠1-251-471-11	PICTURE TUBE ITC (140MG)	
10	⚠1-251-472-11	PICTURE TUBE ITC (200MG)	
11	4-041-189-01	SCREW (5), TAPPING	
12	* A-1331-593-A	C BOARD, COMPLETE (140MG)	
12	* A-1331-594-A	C BOARD, COMPLETE (200MG)	
13		SPRING TENSION (140MG)	
13	4-036-329-11	SPRING (B), TENSION (200MG)	
14	⚠1-411-971-11	COIL, DEMAGNETIC (140MG)	
14	⚠1-411-972-11	COIL, DEMAGNETIC (200MG)	
15	4-055-876-01	COVER, REAR (140MG)	
15	4-055-864-01	COVER, REAR (200MG)	
16	* A-1297-921-A	A BOARD, COMPLETE (140MG)	
16	* A-1297-922-A	A BOARD, COMPLETE (200MG)	
17	⚠8-598-339-00	TUNER (BTF-LA402)	
18	⚠1-453-216-11	TRANSFORMER ASSY, FLYBACK (140MG)	
18	⚠1-453-217-11	TRANSFORMER ASSY, FLYBACK (200MG)	
19	4-055-877-01	POWER, BOTTOM	
20	* 1-900-800-92	CONNECTOR ASSY, MICRO 2P	
21	* 1-900-800-93	CONNECTOR ASSY, MICRO 4P	
22	* 1-900-800-91	CONNECTOR ASSY, MICRO 6P	
23	* 1-562-285-11	HOUSING, CONNECTOR 4P	
24	* 1-562-210-11	CONTACT, CONNECTOR	
25	4-041-791-01	HOLDER, AC CODE (140MG)	
26	⚠1-775-749-11	CORD, POWER	
27	1-573-657-31	PLUG, F-PIN	
28	4-041-179-01	SCREW (+BVTP) (4X16), TAPPING	
29	4-056-699-01	COVER, INPUT TERMINAL	
	RM-Y 1-473-935-11	CONTROLE REMOTO	

SEÇÃO 6
LISTA DE PEÇAS ELÉTRICAS

A

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1297-921-A	A BOARD, COMPLETE (KV-140MG) **********			
	* A-1297-922-A	A BOARD, COMPLETE (KV-200MG) **********			
		<CAPACITOR>			
C001	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C002	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C008	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C010	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C016	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C017	1-128-578-11	ELECT	1MF	20%	100V
C019	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C020	1-137-417-11	FILM	0.1MF	5%	100V
C023	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C024	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C025	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C026	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C028	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C030	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C034	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C037	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C038	1-126-941-11	ELECT	470MF	20%	16V
C040	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C041	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C042	1-128-578-11	ELECT	1MF	20%	100V
C045	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C046	1-104-664-11	ELECT	47MF	20%	25V
C047	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C048	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C050	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C051	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C052	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C053	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C101	1-107-905-11	ELECT	4.7MF	20%	50V
C200	1-126-942-61	ELECT	1000MF	20%	16V
C205	1-107-906-11	ELECT	10MF	20%	50V
C208	1-107-902-11	ELECT	1MF	20%	50V
C220	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C251	1-107-649-11	ELECT	2.2MF	20%	100V
C254	1-104-665-11	ELECT	100MF	20%	16V
C255	1-107-907-11	ELECT	22MF	20%	50V
C259	1-136-193-11	FILM	0.47MF	5%	63V
C260	1-126-942-61	ELECT	1000MF	20%	25V
C261	1-126-942-61	ELECT	1000MF	20%	25V
C262	1-107-649-11	ELECT	2.2MF	20%	100V
C263	1-137-401-11	FILM	0.22MF	5%	100V
C272	1-126-941-11	ELECT	470MF	20%	16V
C301	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C326	1-137-509-11	FILM	0.01MF	50%	63V
C327	1-163-125-00	CERAMIC CHIP	220PF	5%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C330	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C334	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C336	1-104-664-11	ELECT	47MF	20%	25V
C337	1-107-901-11	ELECT	0.47MF	20%	50V
C341	1-128-578-11	ELECT	1MF	20%	100V
C350	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C352	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C353	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C354	1-107-901-11	ELECT	0.47MF	20%	50V
C355	1-137-509-11	FILM	0.01MF	50%	63V
C356	1-104-664-11	ELECT	47MF	20%	25V
C357	1-107-649-11	ELECT	2.2MF	20%	100V
C358	1-107-901-11	ELECT	0.47MF	20%	50V
C359	1-107-901-11	ELECT	0.47MF	20%	50V
C360	1-107-905-11	ELECT	4.7MF	20%	50V
C361	1-137-417-11	FILM	0.1MF	5%	100V
C362	1-137-417-11	FILM	0.1MF	5%	100V
C363	1-137-417-11	FILM	0.1MF	5%	100V
C365	1-107-906-11	ELECT	10MF	20%	50V
C367	1-107-905-11	ELECT	4.7MF	20%	50V
C368	1-137-401-11	FILM	0.22MF	5%	100V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C375	1-107-905-11	ELECT	4.7MF	20%	50V
C376	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C377	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W
C378	1-107-649-11	ELECT	2.2MF	20%	100V
C381	1-128-578-11	ELECT	1MF	20%	100V
C383	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C390	1-137-417-11	FILM	0.1MF	5%	100V
C402	1-107-906-11	ELECT	10MF	20%	50V
C403	1-107-906-11	ELECT	10MF	20%	50V
C404	1-128-578-11	ELECT	1MF	20%	100V
C408	1-107-906-11	ELECT	10MF	20%	50V
C409	1-128-578-11	ELECT	1MF	20%	100V
C411	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C414	1-107-906-11	ELECT	10MF	20%	50V
C419	1-128-578-11	ELECT	1MF	20%	100V
C420	1-107-906-11	ELECT	10MF	20%	50V
C431	1-104-665-11	ELECT	100MF	20%	16V
C501	1-107-698-11	ELECT	10MF	20%	25V
C502	1-107-907-11	ELECT	22MF	20%	50V
C504	1-137-352-11	FILM	0.033MF	5%	63V
C505	1-102-963-00	CERAMIC	33PF	5%	50V
C506	1-107-907-11	ELECT	22MF	20%	50V
C507	1-102-038-00	CERAMIC	0.001MF		500V
C508	1-102-038-00	CERAMIC	0.001MF		500V
C509	1-126-968-11	ELECT	100MF	20%	35V
C510	1-137-398-11	FILM	0.068MF	5%	100V
C511	1-107-905-11	ELECT	4.7MF	20%	50V
C512	1-164-096-11	CERAMIC	0.01MF		50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C513	1-107-906-11	ELECT	10MF	20%	50V
C514	1-104-664-11	ELECT	47MF	20%	25V
C515	1-126-971-11	ELECT	470MF	20%	35V
C516	1-102-244-00	CERAMIC	220PF	10%	500V
C517	1-126-971-11	ELECT	470MF	20%	35V
C518	1-126-971-11	ELECT	470MF	20%	35V
C519	1-102-244-00	CERAMIC	220PF	10%	500V
C520	1-107-961-91	ELECT	10MF	20%	250V
C521	1-102-244-00	CERAMIC	220PF	10%	500V
C522	1-123-024-21	ELECT	33MF		160V
C523	1-136-105-00	FILM	0.33MF	5%	200V (200MG)
C523	1-136-108-00	FILM	0.43MF	5%	200V (140MG)
C527	1-107-907-11	ELECT	22MF	20%	50V
C528	1-106-387-00	MYLAR	0.068MF	10%	200V
C530	1-104-664-11	ELECT	47MF	20%	25V
C531	1-104-664-11	ELECT	47MF	20%	25V
C553	1-102-228-00	CERAMIC	470PF	10%	500V
C554	1-104-772-11	FILM	0.0068MF	3%	2KV
C555	1-162-115-00	CERAMIC	330PF	10%	2KV (200MG)
C558	1-137-417-11	FILM	0.015MF	5%	100V
C559	1-162-115-00	CERAMIC	330PF	10%	2KV
C562	1-107-960-11	ELECT	4.7MF	20%	160V
C575	1-106-371-00	MYLAR	0.015MF		200V
C579	1-107-364-11	FILM	0.01MF	10%	200V (200MG)
C579	1-137-417-11	FILM	0.015MF	5%	100V (140MG)
C602	⚠1-136-311-61	FILM	0.47MF	20%	300V
C609	1-107-852-11	ELECT	330MF	20%	400V
C610	1-164-735-11	CAPACITOR	0.0015MF	10%	500V
C611	1-164-735-11	CAPACITOR	0.0015MF	10%	500V
C612	1-115-233-91	FILM	0.39MF	5%	63V
C613	1-115-233-91	FILM	0.39MF	5%	63V
C614	1-137-219-11	FILM	0.015MF	5%	0
C615	1-164-735-11	CAPACITOR	0.0015MF	10%	500V
C616	1-165-127-11	CERAMIC	470PF	10%	500V
C617	1-136-682-11	FILM	0.0039MF	5%	63V
C618	1-165-127-11	CERAMIC	470PF	10%	500V
C619	1-106-351-00	MYLAR	0.0022MF		200V
C620	1-137-219-11	FILM	0.015MF	5%	0
C621	1-126-942-61	ELECT	1000MF	20%	25V
C622	1-126-942-61	ELECT	1000MF	20%	25V
C623	1-123-024-21	ELECT	33MF		160V
C625	1-104-665-11	ELECT	100MF	20%	25V
C626	1-165-127-11	CERAMIC	470PF	10%	500V
C627	1-104-664-11	ELECT	47MF	20%	25V
C628	1-104-664-11	ELECT	47MF	20%	25V
C629	1-165-127-11	CERAMIC	470PF	10%	500V
C631	1-104-664-11	ELECT	47MF	20%	25V
C632	1-107-901-11	ELECT	0.47MF	20%	50V
C633	1-107-906-11	ELECT	10MF	20%	50V (200MG)
C637	⚠1-115-383-51	CERAMIC	1000PF	10%	400V
C639	⚠1-115-383-51	CERAMIC	1000PF	10%	400V
C641	1-137-417-11	FILM	0.1MF	5%	100V
C642	1-137-417-11	FILM	0.1MF	5%	100V
C643	1-137-417-11	FILM	0.1MF	5%	100V
C644	1-137-417-11	FILM	0.1MF	5%	100V
C645	1-107-906-11	ELECT	10MF	20%	50V
C685	1-128-578-11	ELECT	1MF	20%	100V
C686	1-104-665-11	ELECT	100MF	20%	25V
C690	1-107-901-11	ELECT	0.47MF	20%	50V
C691	1-126-941-11	ELECT	470MF	20%	16V
C692	1-104-664-11	ELECT	47MF	20%	25V
C693	1-136-193-11	FILM	0.47MF	5%	63V

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
CF001	1-579-952-21	VIBRATOR, CERAMIC	
		<CONNECTOR>	
CN202	1-764-325-11	PIN, CONNECTOR (PCB)(V TYPE)2P	
CN301	1-764-329-11	PIN, CONNECTOR (PCB)(V TYPE)6P	
CN401	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
CN501	*1-580-798-11	CONNECTOR PIN (DY) 6P	
CN503	1-764-327-11	PIN, CONNECTOR (PCB)(V TYPE)4P	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)	
CN603	1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P	
CN606	*1-580-843-11	PIN, CONNECTOR (POWER)	
		<DIODE>	
D001	8-719-109-84	DIODE RD5.1ESB1	
D003	8-719-991-33	DIODE 1SS133T-77	
D101	1-810-039-21	LED UNIT	
D201	8-719-110-72	DIODE RD30ESB2	
D302	8-719-109-84	DIODE RD5.1ESB1	
D306	8-719-109-97	DIODE RD6.8ESB2 (200MG)	
D307	8-719-991-33	DIODE 1SS133T-77 (200MG)	
D308	8-719-991-33	DIODE 1SS133T-77	
D311	8-719-988-62	DIODE 1SS355 (200MG)	
D312	8-719-988-62	DIODE 1SS355 (200MG)	
D402	8-719-110-17	DIODE RD10ESB2	
D403	8-719-991-33	DIODE 1SS133T-77	
D404	8-719-110-17	DIODE RD10ESB2	
D408	8-719-110-17	DIODE RD10ESB2	
D409	8-719-110-17	DIODE RD10ESB2	
D502	8-719-908-03	DIODE GP08D	
D503	8-719-302-43	DIODE EL1Z	
D504	8-719-302-43	DIODE EL1Z	
D505	8-719-991-33	DIODE 1SS133T-77	
D506	8-719-110-08	DIODE RD8.2ESB2	
D507	8-719-991-33	DIODE 1SS133T-77	
D508	8-719-991-33	DIODE 1SS133T-77	
D509	8-719-302-43	DIODE EL1Z	
D512	8-719-302-43	DIODE EL1Z	
D514	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D601	⚠8-719-510-63	DIODE D4SB60L-F	
D602	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-510-48	DIODE D1N20R	
D604	8-719-510-48	DIODE D1N20R	
D605	8-719-018-84	DIODE D2S6M	
D606	8-719-022-97	DIODE D2S4MF	
D607	8-719-510-26	DIODE D1NL20-TA	
D608	8-719-510-26	DIODE D1NL20-TA	
D611	8-719-110-17	DIODE RD10ESB2	
D612	8-719-109-90	DIODE RD5.6ESB3	
D613	8-719-303-49	DIODE R2M	
D614	8-719-510-48	DIODE D1N20R	
D615	8-719-510-48	DIODE D1N20R	
D616	8-719-110-08	DIODE RD8.2ESB2 (200MG)	
D617	8-719-988-62	DIODE 1SS355 (200MG)	
D620	8-719-510-48	DIODE D1N20R	
D621	8-719-510-48	DIODE D1N20R	
D622	8-719-510-26	DIODE D1NL20-TA	
D623	8-719-510-26	DIODE D1NL20-TA	
		<FUSE>	
F601	⚠1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V	
	1-533-223-11	CLIP, FUSE ; F601	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FERRITE BEAD>	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB601	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB602	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB603	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB606	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB607	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB608	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB609	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
		<IC>	
IC101	8-759-436-13	IC M37267M6-070SP	
IC102	8-759-354-27	IC ST24C01FM6TR	
IC103	8-747-905-11	IC SBX1790-51	
IC251	8-759-980-43	IC TDA2009A	
IC300	8-759-378-17	IC TDA4662T-V2-T	
IC301	8-752-072-79	IC CXA1871S	
IC401	8-759-710-07	IC NJM2234M	
IC402	8-759-710-07	IC NJM2234M	
IC501	8-759-801-98	IC LA7830	
IC502	8-759-252-53	IC RC4558PS-E20	
IC601	8-759-198-31	IC uPC1093J-1-T	
IC693	8-759-371-21	IC MM1319AFBE	
		<JACK>	
J401	1-580-441-41	JACK, PIN 2P	
J402	1-750-518-11	JACK BLOCK, PIN 2P	
		<COIL>	
L001	1-410-470-11	INDUCTOR 10UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-408-421-00	INDUCTOR 100UH	
L202	1-412-553-11	INDUCTOR 3.3mH	
L301	1-410-645-31	INDUCTOR 100UH	
L501	1-412-553-11	INDUCTOR 3.3mH	
L502	1-410-476-11	INDUCTOR 33UH	
L503	1-412-531-31	INDUCTOR 33UH	
L551	1-412-533-21	INDUCTOR 47UH	
L602	1-412-532-11	INDUCTOR 39UH	
		<IC LINK>	
PS201	⚠ 1-532-675-91	LINK, IC 1.5A/150V	
		<TRANSISTOR>	
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q261	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q402	8-729-216-22	TRANSISTOR 2SA1162-G	
Q504	8-729-105-08	TRANSISTOR 2SA1330-O6	
Q550	8-729-140-50	TRANSISTOR 2SC3209LK	
Q551	8-729-810-49	TRANSISTOR 2SD1877S-SONY-CA	
Q554	8-729-216-22	TRANSISTOR 2SA1162-G	
Q555	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q602	8-729-039-09	TRANSISTOR 2SC4834EMNP	
Q603	8-729-039-09	TRANSISTOR 2SC4834EMNP	
Q604	8-729-140-93	TRANSISTOR 2SB733-34	
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-423-99	TRANSISTOR 2SD2137-OP	
Q607	8-729-140-96	TRANSISTOR 2SD774-34	
Q610	8-729-216-22	TRANSISTOR 2SA1162-G (200MG)	
Q611	8-729-216-22	TRANSISTOR 2SA1162-G	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (200MG)	
Q613	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q615	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R001	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R002	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R003	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R004	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R005	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R006	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R007	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R008	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R009	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R011	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R012	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R013	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R014	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R015	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R016	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R017	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R018	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R019	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R020	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R021	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R022	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R023	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R024	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R025	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R026	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R027	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R028	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R030	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R031	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R032	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R033	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R034	1-216-047-91	METAL GLAZE 820 5% 1/10W	
R035	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R036	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R037	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R038	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R039	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R040	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R044	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R045	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R046	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R047	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R048	1-216-025-91	METAL GLAZE 100 5% 1/10W	
R049	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R050	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R052	1-216-295-91	CONDUCTOR, CHIP	
R053	1-216-295-91	CONDUCTOR, CHIP	
R054	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R055	1-216-295-91	CONDUCTOR, CHIP	
R056	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R060	1-216-295-91	CONDUCTOR, CHIP	
R061	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R062	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R063	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R064	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R065	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R067	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R068	1-216-295-91	CONDUCTOR, CHIP	
R069	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R070	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION		REMARK
R090	1-216-295-91	CONDUCTOR, CHIP		
R101	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R203	1-215-899-11	METAL OXIDE 15K	5%	2W F
R206	1-216-689-11	METAL GLAZE 39K	5%	1/10W
R207	1-216-083-00	METAL GLAZE 27K	5%	1/10W
R208	1-216-295-91	CONDUCTOR, CHIP		
R209	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R210	1-216-033-00	METAL GLAZE 220	5%	1/10W
R211	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R253	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R254	1-216-015-00	METAL GLAZE 39	5%	1/10W
R258	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R260	1-216-295-91	CONDUCTOR, CHIP		
R263	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R264	1-216-041-00	METAL GLAZE 470	5%	1/10W
R265	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R266	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R268	1-216-295-91	CONDUCTOR, CHIP		
R270	1-249-385-11	CARBON 2.2	5%	1/4W
R271	1-249-417-11	CARBON 1K	5%	1/4W
R301	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R302	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R306	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R307	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R308	1-216-295-91	CONDUCTOR, CHIP		
R327	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R330	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R331	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R332	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R333	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R335	1-216-033-00	METAL GLAZE 220	5%	1/10W
R336	1-216-033-00	METAL GLAZE 220	5%	1/10W
R337	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R338	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R339	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R340	1-216-077-00	METAL GLAZE 15K	5%	1/10W
R341	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R342	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R343	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R344	1-216-109-00	METAL GLAZE 330K	5%	1/10W
R345	1-216-033-00	METAL GLAZE 220	5%	1/10W
R346	1-216-033-00	METAL GLAZE 220	5%	1/10W
R347	1-216-045-00	METAL GLAZE 680	5%	1/10W
R348	1-216-033-00	METAL GLAZE 220	5%	1/10W
R349	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W
R350	1-216-105-91	METAL GLAZE 220K	5%	1/10W
R352	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R355	1-216-077-00	METAL GLAZE 15K	5%	1/10W
R356	1-216-025-91	METAL GLAZE 100	5%	1/10W
R360	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R361	1-216-033-00	METAL GLAZE 220	5%	1/10W
R362	1-216-043-91	METAL GLAZE 560	5%	1/10W
R363	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R364	1-216-049-91	METAL GLAZE 1K	5%	1/10W (200MG)
R379	1-216-105-91	METAL GLAZE 220K	5%	1/10W
R403	1-216-022-00	METAL GLAZE 75	5%	1/10W
R406	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R407	1-216-033-00	METAL GLAZE 220	5%	1/10W
R410	1-216-022-00	METAL GLAZE 75	5%	1/10W
R411	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R413	1-216-295-91	CONDUCTOR, CHIP		
R414	1-216-041-00	METAL GLAZE 470	5%	1/10W
R415	1-216-041-00	METAL GLAZE 470	5%	1/10W
R432	1-216-095-00	METAL GLAZE 82K	5%	1/10W
R435	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W
R436	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R439	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R440	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R445	1-216-295-91	CONDUCTOR, CHIP		
R450	1-216-295-91	CONDUCTOR, CHIP		
R451	1-216-295-91	CONDUCTOR, CHIP		
R452	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R453	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R454	1-216-295-91	CONDUCTOR, CHIP		
R457	1-216-025-91	METAL GLAZE 100	5%	1/10W
R463	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R470	1-216-295-91	CONDUCTOR, CHIP		
R472	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R473	1-216-295-91	CONDUCTOR, CHIP		
R501	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R505	1-216-349-00	METAL OXIDE 1	5%	1W F
R506	1-216-453-00	METAL OXIDE 270	5%	2W F
R507	1-247-891-00	CARBON 330K	5%	1/4W
R508	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R509	1-216-101-00	METAL GLAZE 150K	5%	1/10W
R510	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R511	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R512	1-215-445-00	METAL 10K	1%	1/4W
R513	1-216-642-11	METAL CHIP 430	0.50%	1/10W
R515	1-208-806-11	METAL CHIP 10K	0.50%	1/10W
R518	1-215-429-00	METAL 2.2K	1%	1/4W
R519	1-215-902-11	METAL OXIDE 47K	5%	2W F (140MG)
R519	1-216-467-11	METAL OXIDE 56K	5%	2W F (200MG)
R520	1-216-647-11	METAL CHIP 680	0.50%	1/10W (200MG)
R520	1-216-651-11	METAL CHIP 1K	0.50%	1/10W (140MG)
R531	1-216-349-00	METAL OXIDE 1	5%	1W F (200MG)
R531	1-216-357-00	METAL OXIDE 4.7	5%	1W F (140MG)
R533	1-216-359-00	METAL OXIDE 6.8	5%	1W F (140MG)
R533	1-220-408-51	METAL OXIDE 2.2	5%	1W F (200MG)
R534	1-215-463-00	METAL 56K	1%	1/4W (200MG)
R534	1-215-465-00	METAL 68K	1%	1/4W (140MG)
R536	1-215-437-00	METAL 4.7K	1%	1/4W
R538	1-215-864-00	METAL OXIDE 150	5%	1W F
R540	1-249-441-11	CARBON 100K	5%	1/4W
R541	1-215-457-00	METAL 33K	1%	1/4W
R542	1-216-083-00	METAL GLAZE 27K	5%	1/10W
R543	1-218-764-11	METAL CHIP 330K	0.50%	1/10W
R544	1-216-656-11	METAL CHIP 1.6K	0.50%	1/10W (200MG)
R544	1-208-785-11	METAL CHIP 1.3K	0.50%	1/10W (140MG)
R545	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R547	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R548	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R549	1-216-349-00	METAL OXIDE 1	5%	2W F
R550	1-215-470-00	METAL 110K	1%	1/4W (200MG)
R550	1-215-471-00	METAL 120K	1%	1/4W (140MG)
R553	1-216-678-11	METAL CHIP 13K	0.50%	1/10W
R554	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R555	1-214-777-00	METAL OXIDE 6.8K	5%	2W F (200MG)
R555	1-216-462-00	METAL OXIDE 8.2K	5%	2W F (140MG)
R556	1-216-687-11	METAL CHIP 33K	0.50%	1/10W (200MG)
R556	1-216-699-11	METAL CHIP 100K	0.50%	1/10W (140MG)

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Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R557	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R558	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R559	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R560	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R563	1-215-880-00	METAL OXIDE	10	5%	2W F (200MG)
R563	1-215-882-00	METAL OXIDE	22	5%	2W F (140MG)
R568	1-216-429-11	METAL OXIDE	270	5%	1W F (140MG)
R601	⚠1-202-892-91	SOLID	4.7M	20%	1/2W
R602	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R603	1-202-968-11	WIREWOUND	1.2	5%	10W
R604	1-202-961-11	WIREWOUND	1.8	5%	10W
R605	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R606	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R607	1-247-883-00	CARBON	150K	5%	1/4W
R608	1-247-883-00	CARBON	150K	5%	1/4W
R609	1-216-377-11	REGISTER	4.7	5%	2W F
R610	1-216-377-11	REGISTER	4.7	5%	2W F
R611	1-247-883-00	CARBON	150K	5%	1/4W
R612	1-247-883-00	CARBON	150K	5%	1/4W
R614	1-247-893-11	CARBON	390K	5%	1/4W
R615	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R616	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R617	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R618	1-215-469-00	METAL	100K	1%	1/4W
R620	1-249-429-11	CARBON	10K	5%	1/4W
R621	1-260-099-11	CARBON	1K	5%	1/2W
R622	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R623	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R624	1-249-429-11	CARBON	10K	5%	1/4W
R625	1-216-377-11	REGISTER	4.7	5%	2W F
R626	1-215-888-00	METAL OXIDE	220	5%	2W F
R628	1-249-415-11	CARBON	680	5%	1/4W
R629	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R630	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R633	1-216-295-91	CONDUCTOR, CHIP			
R635	1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R637	1-216-295-91	CONDUCTOR, CHIP			
R639	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W (200MG)
R640	1-216-085-00	METAL GLAZE	33K	5%	1/10W (200MG)
R641	1-247-893-11	CARBON	390K	5%	1/4W
R650	1-249-432-11	CARBON	18K	5%	1/4W
R651	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R652	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R653	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R654	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R656	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R657	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R661	1-216-047-91	METAL GLAZE	820	5%	1/10W (200MG)
R662	1-216-097-91	METAL GLAZE	100K	5%	1/10W (200MG)
R663	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W (200MG)
R664	1-216-081-00	METAL GLAZE	22K	5%	1/10W (200MG)
R665	1-247-887-00	CARBON	220K	5%	1/4W (200MG)
R681	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R682	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R684	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R686	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R687	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R690	1-216-355-11	METAL OXIDE	3.3	5%	1W F
R695	1-216-085-00	METAL GLAZE	33K	5%	1/10W (200MG)

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<RELAY>	
RY601	⚠1-755-018-11	RELAY	
		<SWITCH>	
S002	1-762-093-11	SWITCH, TACTILE	
S003	1-762-093-11	SWITCH, TACTILE	
S004	1-692-431-21	SWITCH, TACTILE	
S005	1-762-093-11	SWITCH, TACTILE	
S006	1-762-093-11	SWITCH, TACTILE	
S007	1-762-093-11	SWITCH, TACTILE	
S601	⚠1-762-657-11	SWITCH, AC POWER	
		<TRANSFORMER>	
T504	⚠1-453-216-11	TRANSFORMER ASSY, FLYBACK (140MG)	
T504	⚠1-453-217-11	TRANSFORMER ASSY, FLYBACK (200MG)	
T551	1-437-210-11	TRANSFORMER, HORIZONTAL DRIVE	
T601	⚠1-423-895-11	TRANSFORMER, LINE FILTER (LFT)	
T603	⚠1-429-536-11	TRANSFORMER, CONVERTER (PIT)	
T604	⚠1-427-864-13	TRANSFORMER, CONVERTER (PRT)	
		<THERMISTOR>	
THP601	⚠1-801-494-11	THERMISTOR, POSITIVE (140MG)	
THP601	⚠1-801-495-11	THERMISTOR, POSITIVE (200MG)	
		<TUNER>	
TU101	⚠8-598-339-00	TUNER BTF-LA402	
		<VARISTOR>	
VDR601	1-801-236-41	VARISTOR ERZV10D561	
		<CRYSTAL>	
X300	1-577-611-11	OSCILALTOR, CERAMIC	
X302	1-579-973-11	VIBRATOR, CRYSTAL	
X303	1-567-505-11	OSCILLATOR, CRYSTAL	

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* A-1331-594-A C BOARD, COMPLETE (KV-200MG)
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		<CAPACITOR>			
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C706	1-107-907-11	ELECT	22MF	20%	50V
C712	1-102-116-00	CERAMIC	680PF	10%	50V
C732	1-102-116-00	CERAMIC	680PF	10%	50V
C752	1-102-116-00	CERAMIC	680PF	10%	50V
C771	1-102-116-00	CERAMIC	680PF	10%	50V
C772	1-102-116-00	CERAMIC	680PF	10%	50V
C773	1-102-116-00	CERAMIC	680PF	10%	50V
		<CONNECTOR>			
CN701	1-695-915-11	TAB (CONTACT)			
CN702	1-764-327-11	PIN, CONNECTOR (PCB)(V TYPE)4P			
CN703	1-764-329-11	PIN, CONNECTOR (PCB)(V TYPE)6P			
		<DIODE>			
D770	8-719-991-33	DIODE 1SS133T-77			
D771	8-719-991-33	DIODE 1SS133T-77			
D772	8-719-991-33	DIODE 1SS133T-77			

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
D773	8-719-991-33	DIODE 1SS133T-77				
D777	8-719-109-72	DIODE RD3.9ESB2				
		<JACK>				
J701	⚠1-251-182-11	SOCKET, PICTURE TUBE				
		<COIL>				
L701	1-410-671-31	INDUCTOR 4 /UH				
		<TRANSISTOR>				
Q711	8-729-326-11	TRANSISTOR 2SC2611				
Q731	8-729-326-11	TRANSISTOR 2SC2611				
Q751	8-729-326-11	TRANSISTOR 2SC2611				
Q770	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q771	8-729-200-17	TRANSISTOR 2SA1091-O				
Q772	8-729-200-17	TRANSISTOR 2SA1091-O				
Q773	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
R700	1-260-087-81	CARBON	100	5%	1/2W	
R703	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F
R704	1-216-394-00	METAL OXIDE	2.7	5%	3W	F
R710	1-260-105-11	CARBON	3.3K	5%	1/2W	
R711	1-247-807-31	CARBON	100	5%	1/4W	
R712	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R716	1-249-411-11	CARBON	330	5%	1/4W	
R717	1-249-393-11	CARBON	10	5%	1/4W	
R730	1-260-105-11	CARBON	3.3K	5%	1/2W	
R731	1-247-807-31	CARBON	100	5%	1/4W	
R732	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R736	1-249-411-11	CARBON	330	5%	1/4W	
R737	1-249-393-11	CARBON	10	5%	1/4W	
R750	1-260-105-11	CARBON	3.3K	5%	1/2W	
R751	1-247-807-31	CARBON	100	5%	1/4W	
R752	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R756	1-249-411-11	CARBON	330	5%	1/4W	
R757	1-249-393-11	CARBON	10	5%	1/4W	
R770	1-247-863-91	CARBON	22K	5%	1/4W	
R774	1-249-437-11	CARBON	47K	5%	1/4W	
R775	1-249-417-11	CARBON	1K	5%	1/4W	
R776	1-247-815-91	CARBON	220	5%	1/4W	

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* A-1331-593-A C BOARD, COMPLETE (KV-140MG)

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REF. NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C701	1-162-114-00	CERAMIC	0.0047MF		2KV	
C706	1-107-907-11	ELECT	22MF	20%	50V	
C712	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C732	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C752	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C771	1-102-116-00	CERAMIC	680PF	10%	50V	
C772	1-102-116-00	CERAMIC	680PF	10%	50V	
C773	1-102-116-00	CERAMIC	680PF	10%	50V	
		<CONNECTOR>				
CN701	1-695-915-11	TAB (CONTACT)				
CN702	1-764-327-11	PIN, CONNECTOR (PCB)(V TYPE)4P				
CN703	1-764-329-11	PIN, CONNECTOR (PCB)(V TYPE)6P				
		<DIODE>				
D770	8-719-991-33	DIODE 1SS133T-77				
D771	8-719-991-33	DIODE 1SS133T-77				
D772	8-719-991-33	DIODE 1SS133T-77				
D773	8-719-991-33	DIODE 1SS133T-77				
D777	8-719-109-72	DIODE RD3.9ESB2				
		<JACK>				
J701	⚠1-251-460-11	SOCKET, PICTURE TUBE				
		<COIL>				
L701	1-410-671-31	INDUCTOR 47UH				
		<TRANSISTOR>				
Q711	8-729-326-11	TRANSISTOR 2SC2611				
Q731	8-729-326-11	TRANSISTOR 2SC2611				
Q751	8-729-326-11	TRANSISTOR 2SC2611				
Q770	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q771	8-729-200-17	TRANSISTOR 2SA1091-O				
Q772	8-729-200-17	TRANSISTOR 2SA1091-O				
Q773	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
R700	1-260-087-81	CARBON	100	5%	1/2W	
R703	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F
R704	1-220-489-51	METAL OXIDE	3.3	5%	2W	F
R710	1-260-105-11	CARBON	3.3K	5%	1/2W	
R711	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R712	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R716	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R717	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R730	1-260-105-11	CARBON	3.3K	5%	1/2W	
R731	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R732	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R736	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R737	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R750	1-260-105-11	CARBON	3.3K	5%	1/2W	
R751	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R752	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R756	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R757	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R770	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R774	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R775	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R776	1-216-033-00	METAL GLAZE	220	5%	1/10W	

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MISCELLANEOUS

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	1-251-414-11	TRANSFORMER, ANTENNA MATCHING
	1-251-461-11	OUTLET, AC
V901	⚠1-231-471-11	PICTURE TUBE ITC (140MG)
V901	⚠1-231-472-11	PICTURE TUBE ITC (200MG)
	⚠1-411-971-11	COIL, DEMAGNETIC (140MG)
	⚠1-411-972-11	COIL, DEMAGNETIC (200MG)
	1-505-450-11	SPEAKER
	*1-562-210-11	CONTACT, CONNECTOR
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