

CINERAL

MANUAL DE SERVIÇO TELEVISOR TC-1411 - TC-2011



CINERÁL

Cineral Eletrônica da Amazônia Ltda.

Especificações:

- Alimentação :120/220V AC automático 50/60Hz
- Sistema de Cor :PAL-M, PAL-N, NTSC
- Consumo :57W TC-1411
:65W TC-2011
- Sintonia : 181 canais VHF, UHF, E CATV
- Entrada de Audio e Video

INSTRUÇÕES GERAIS DE AJUSTE

- AJUSTE DA AMPLITUDE DE VIDEO

- a) Injete um sinal de barras na entrada de video
- b) Ligue a ponta do osciloscópio no TP6
- c) Ajuste VRO8 para se obter de 2 a 2,3VPP.

- AJUSTE DO NIVEL DE AUDIO

- a) Injete um sinal de audio (400Hz), 1, 4 VPP na entrada de audio
- b) Ligue a ponta do osciloscópio na saída de T601 e aumente o volume ao máximo
- c) Ajuste o VSO7 para 14VPP sem distorção

- AJUSTE DE ALTURA

- a) Use o padrão PHILIPS com circulo e ajuste VR301 para um over scan de +/- 10 mm

- AJUSTE DE FOCO

- a) Use o padrão PHILIPS com circulo e ajuste o controle de foco (localizado no Fly Back) para melhor foco no centro da tela.

- CAG DE RF

- a) Sintonize um canal qualquer e com o atenuador, ajuste o sinal para 60db/uV na antena
- b) Ajuste o VR(101) RF AGC de tal forma a aparecer ruído na tela. A seguir gire o VR101 em sentido contrário até o ruído desaparecer.
- c) Verificar os outros canais

INSTRUÇÕES GERAIS DE AJUSTE

- AJUSTE DE CROMA

- a) Injete na antena o sinal padrão de barras e ligue SCOPE no TP7
- b) Coloque o controle de cor no centro
- c) Ajuste VR502 (PAL-M) ou VR503 (PAL-N) para reduzir o erro de amplitude conforme figura 1-2
- d) Ajuste T502 (PAL-M) ou T503 (PAL-N) para o mínimo erro de fase figura 1-2

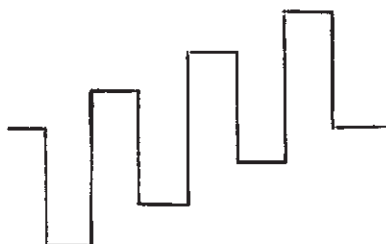


fig. 1-2

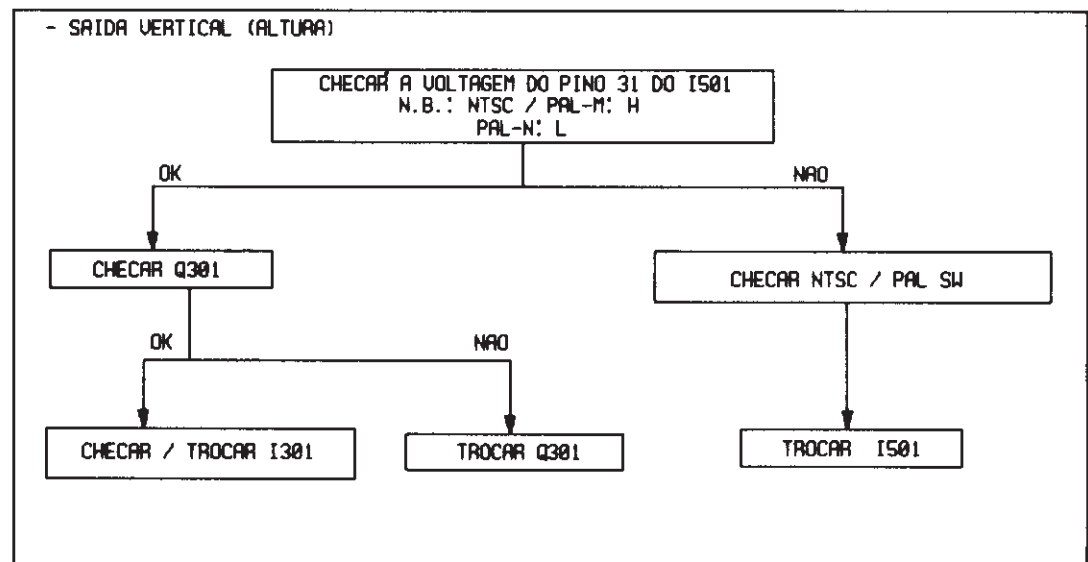
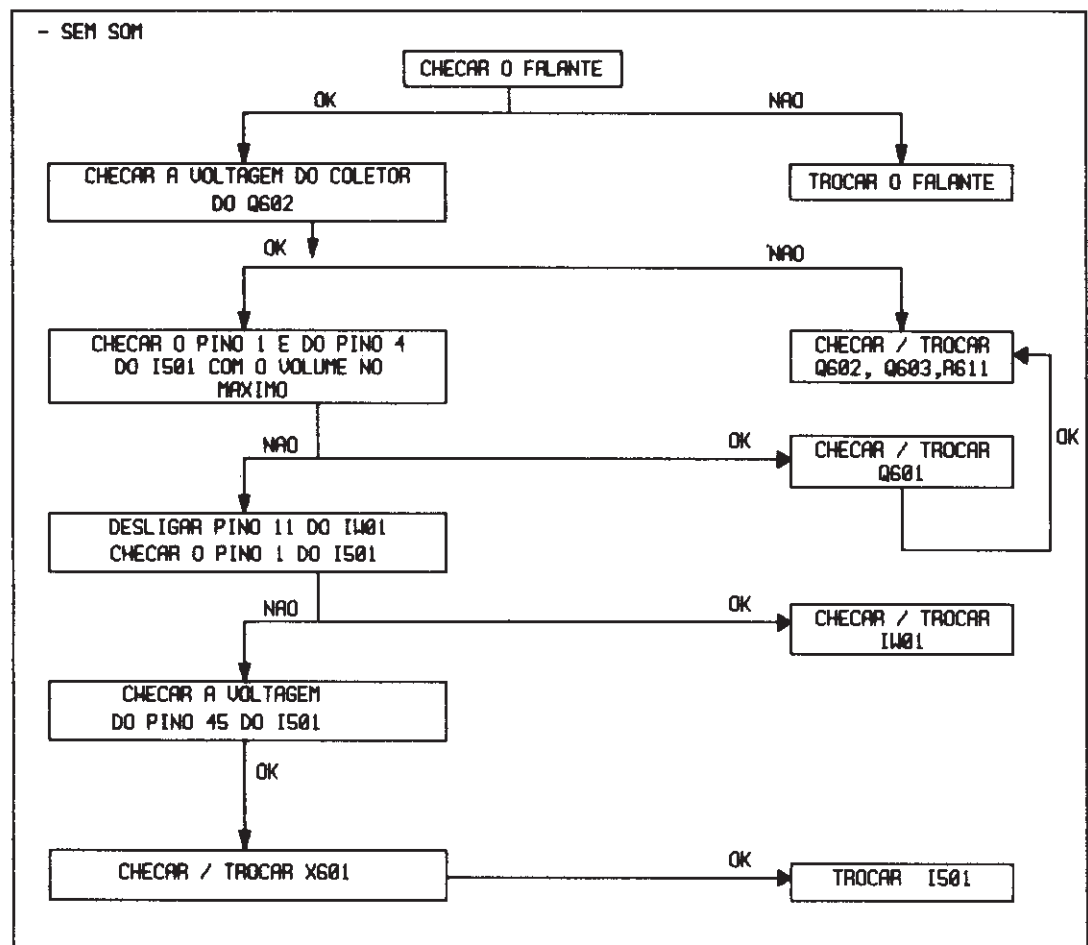
- AJUSTE DE ESCALA DE CINZAS

- a) Desligue o sinal de video através da chave SW551 (Placa do Cinescopio)
- b) Posicione os controles de BIAS (R553,559,564) e DRIVE (R567,568) para a posição central.
- c) Reduza totalmente o brilho através do controle de SCREEN
- d) Curto circuito temporariamente para a terra o terminal número 2 da saída Vertical (IC301)
- e) Aumente gradativamente o brilho através do controle de SCREEN até aparecer a 1ª linha horizontal colorida. Após isto, não devemos mais alterar o trimpot de BIAS relativo à esta cor.
- f) Ajuste os outros dois trimpots de BIAS para se conseguir uma linha branca na tela
- g) Desligue o curto do pino 2 do IC301 e ligue a chave SW551 para termos novamente uma tela branca
- h) Ajuste os controles de DRIVE (R567, 568) para o melhor branco

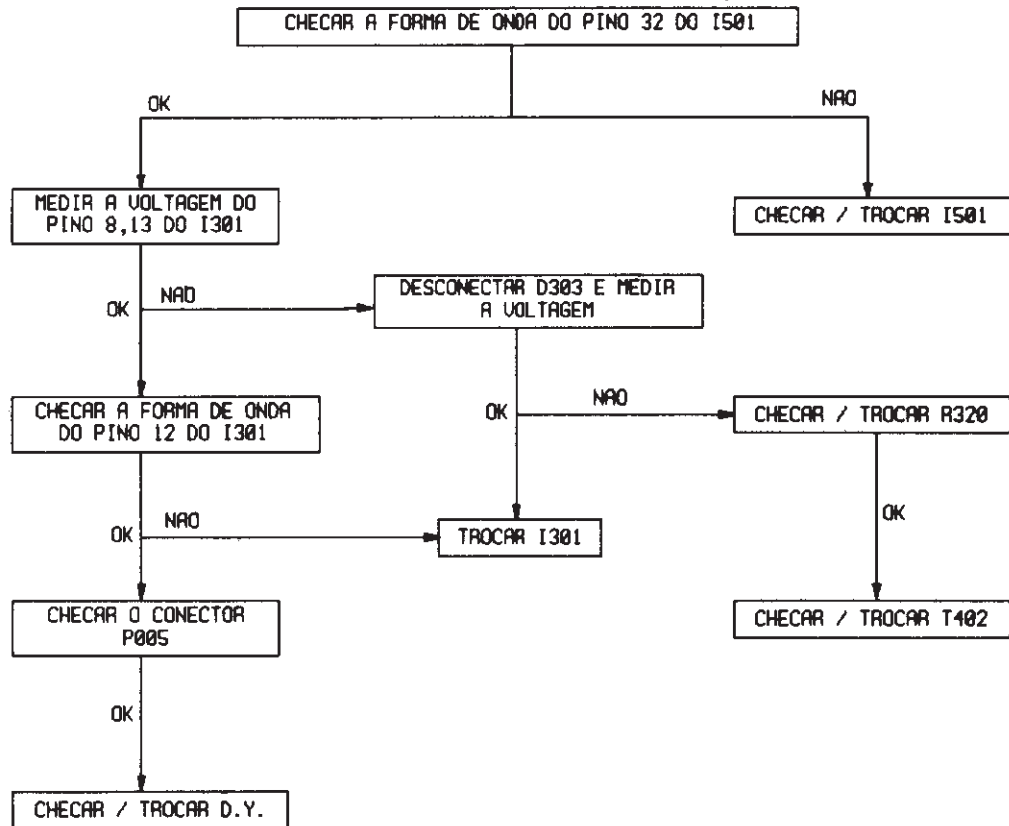
- SUB-BRILHO

- a) Sintonize um programa colorido (Padrão PHILIPS) e ajuste os controles de contraste e brilho para mínimo
- b) Ajuste o Sub-Brilho VR202 para uma imagem levemente clara

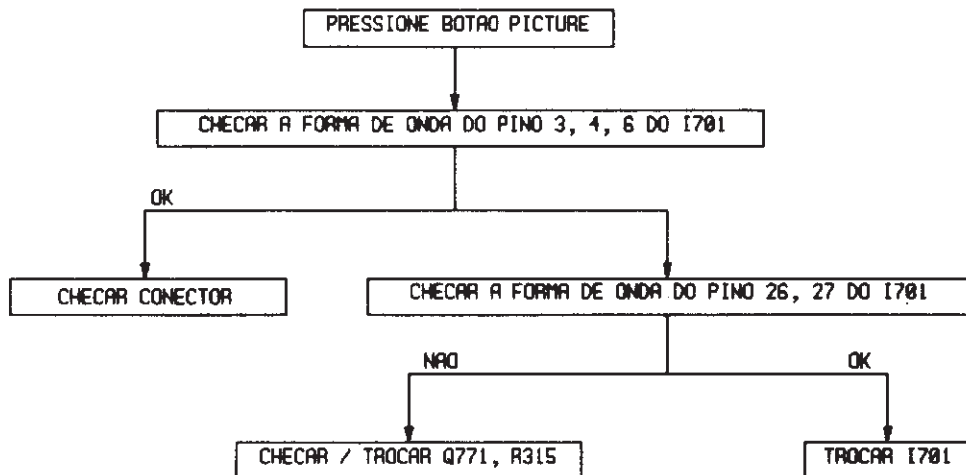
MAPA DE DEFEITOS



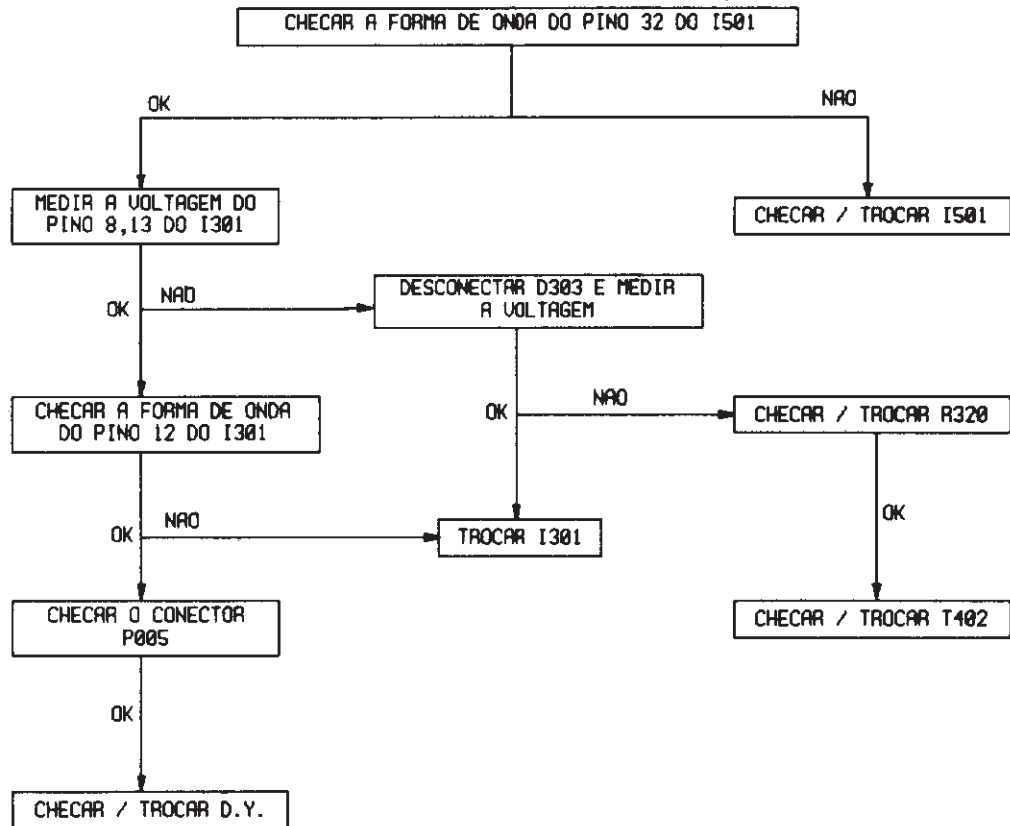
- SEM VERTICAL



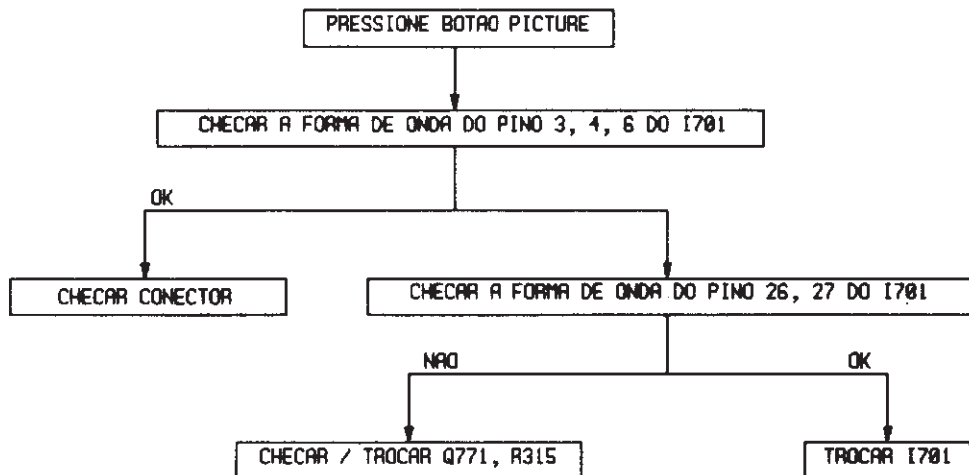
- SEM ON-SCREEN



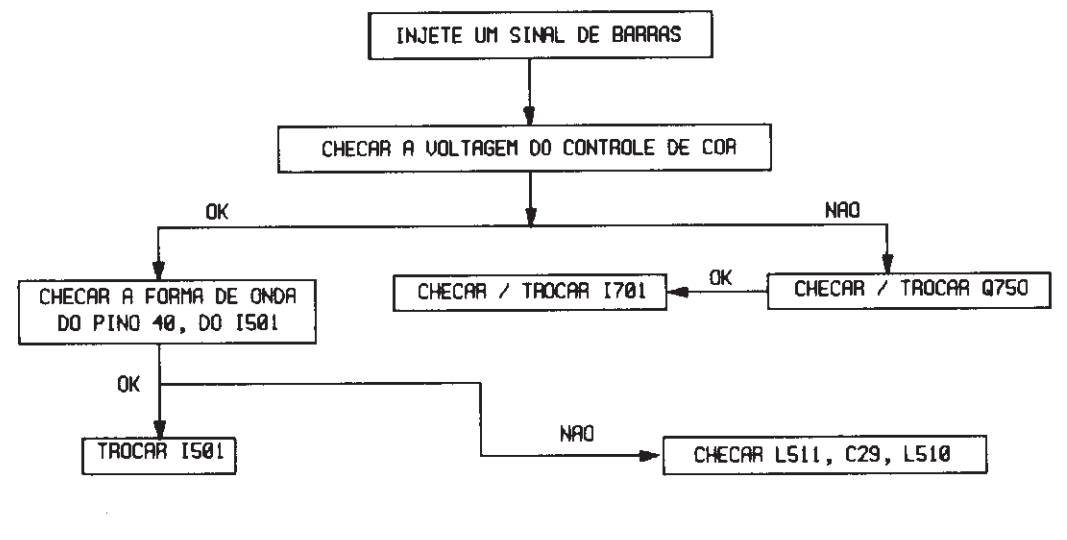
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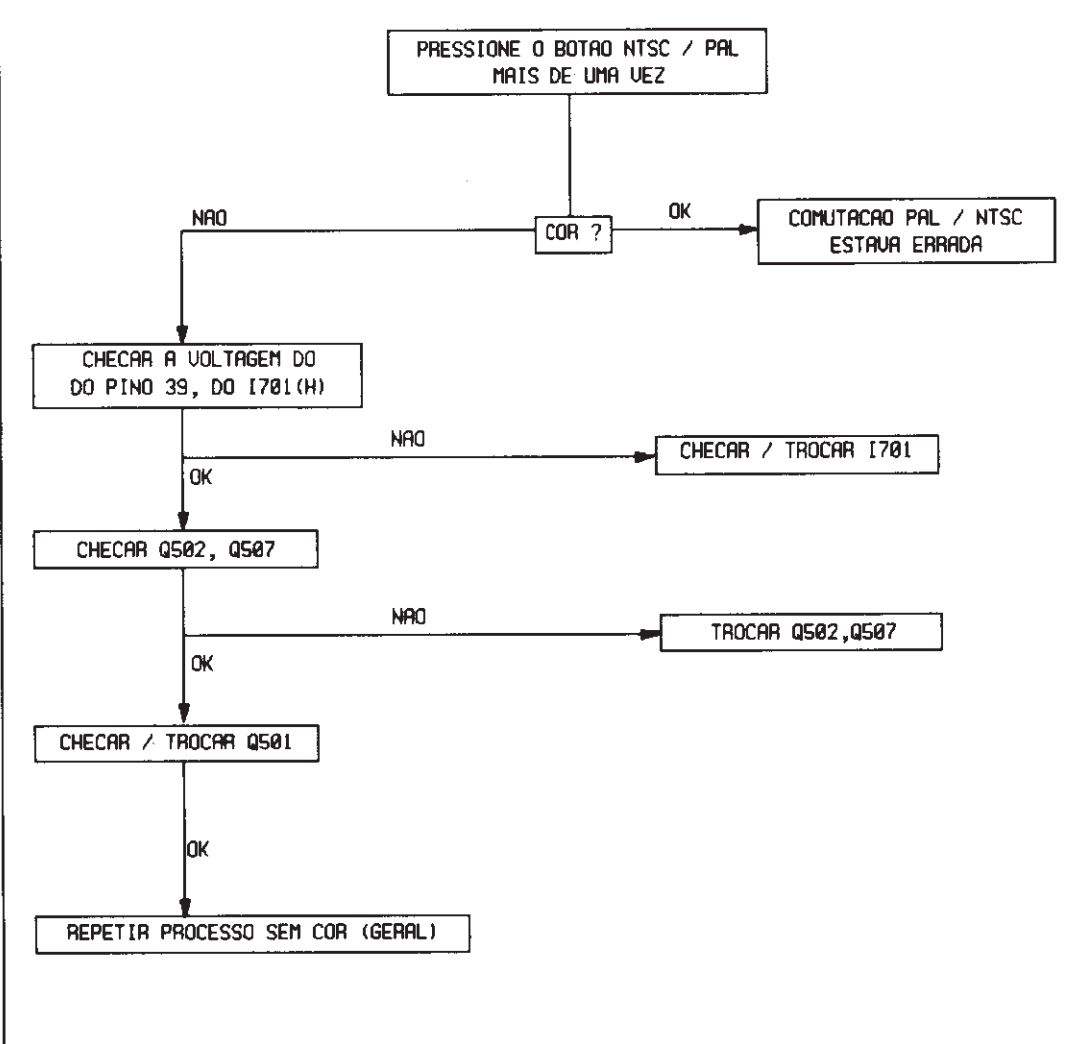
- SEM ON-SCREEN

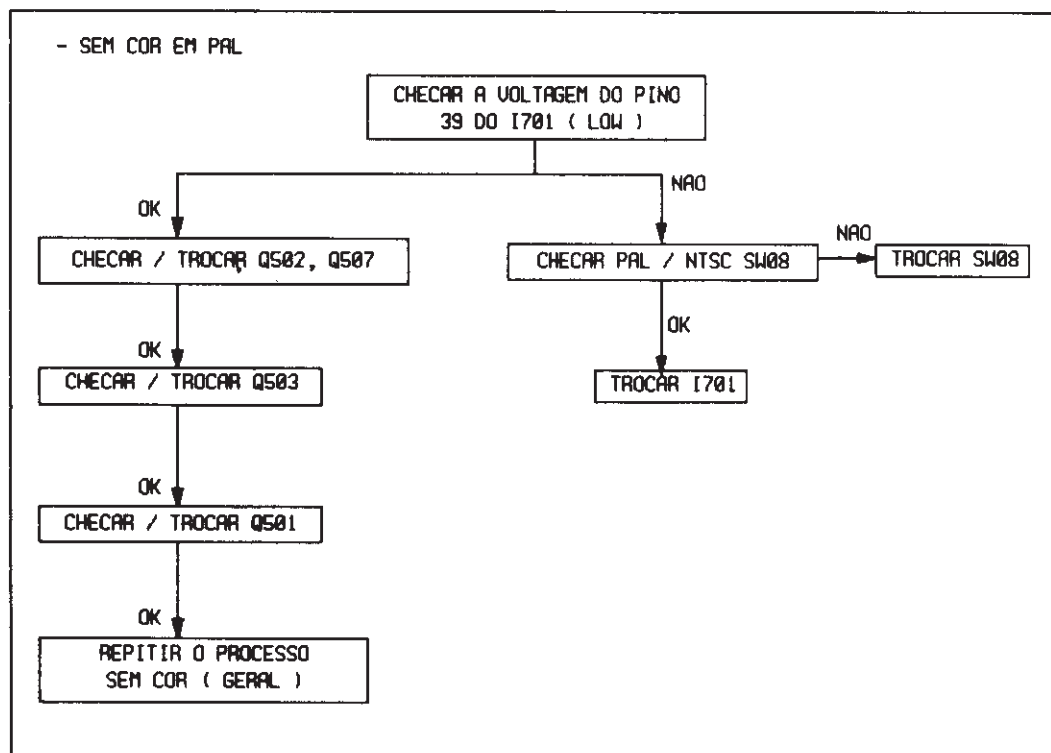
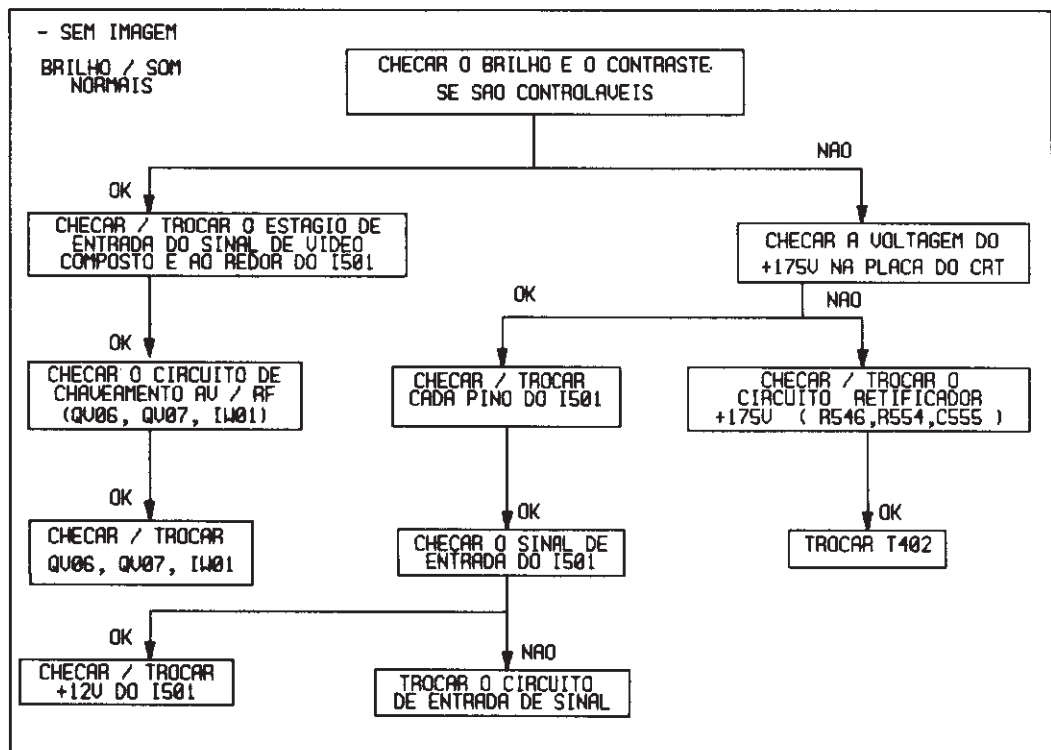


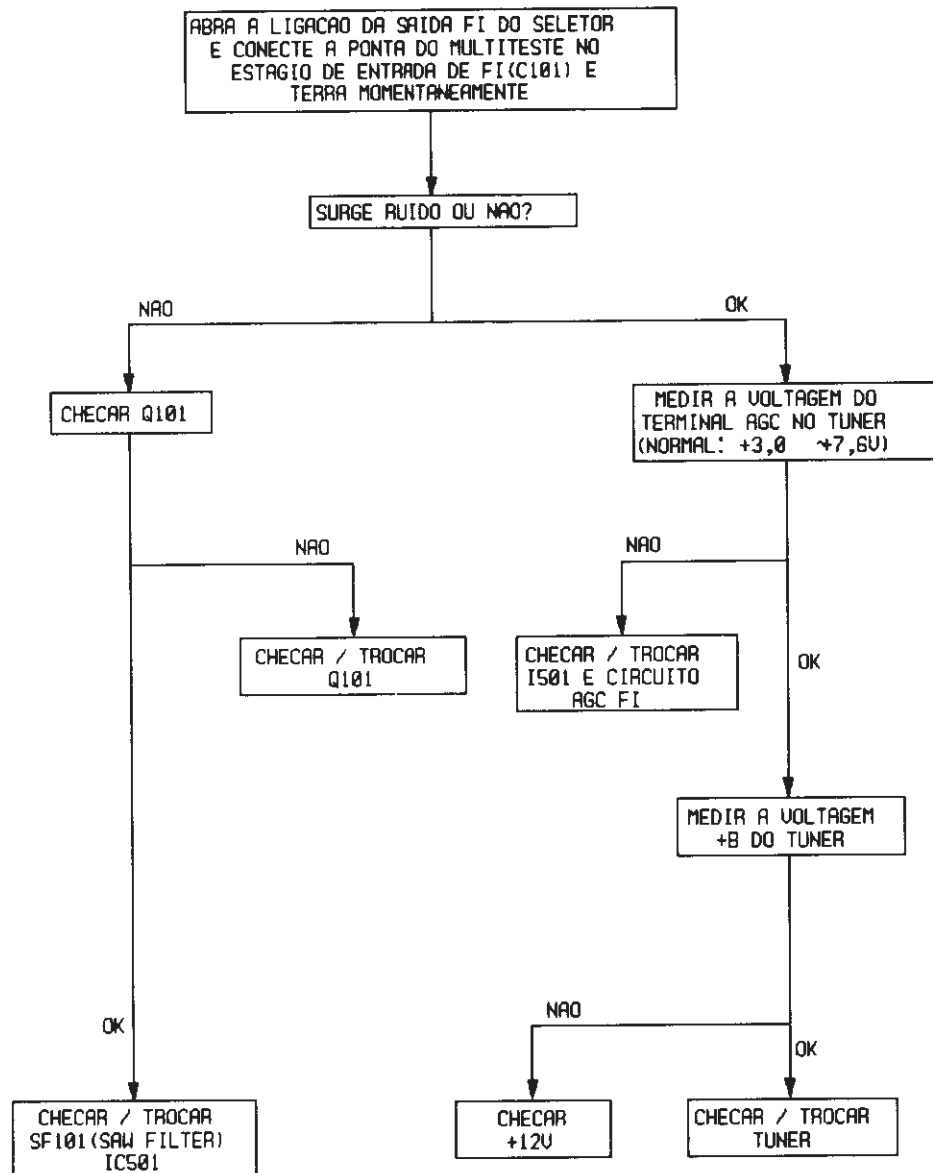
- SEM COR (GERAL)



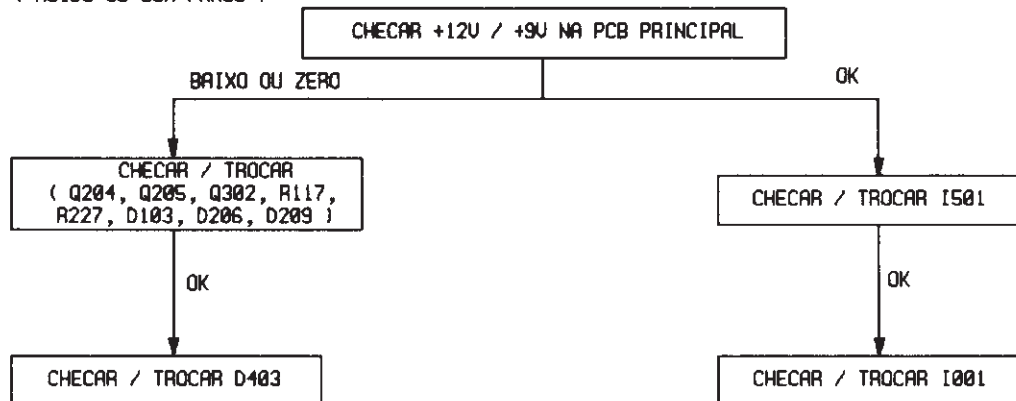
- SEM COR EM NTSC



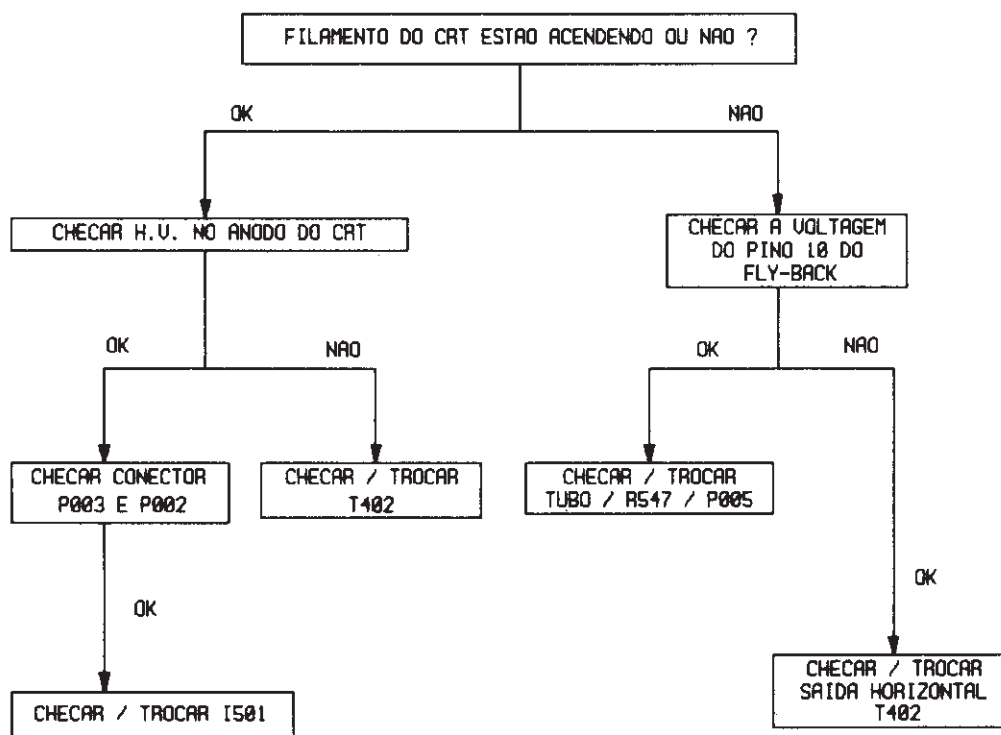




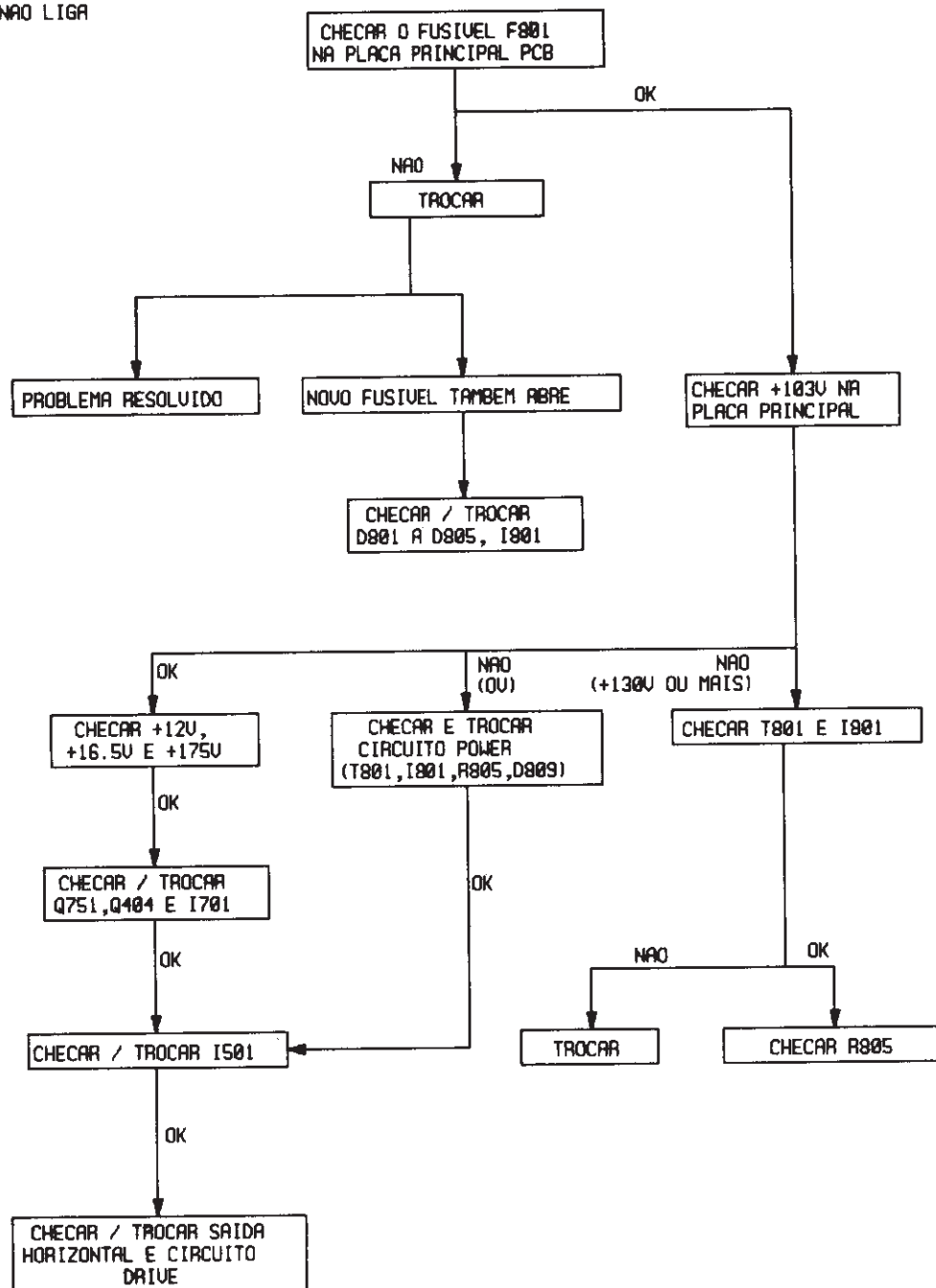
- SEM TÁMBA
(RUÍDO OU SOM FRACO)



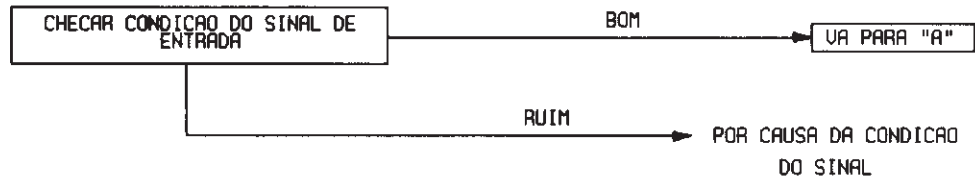
- SEM TÁMBA
(COM SOM)



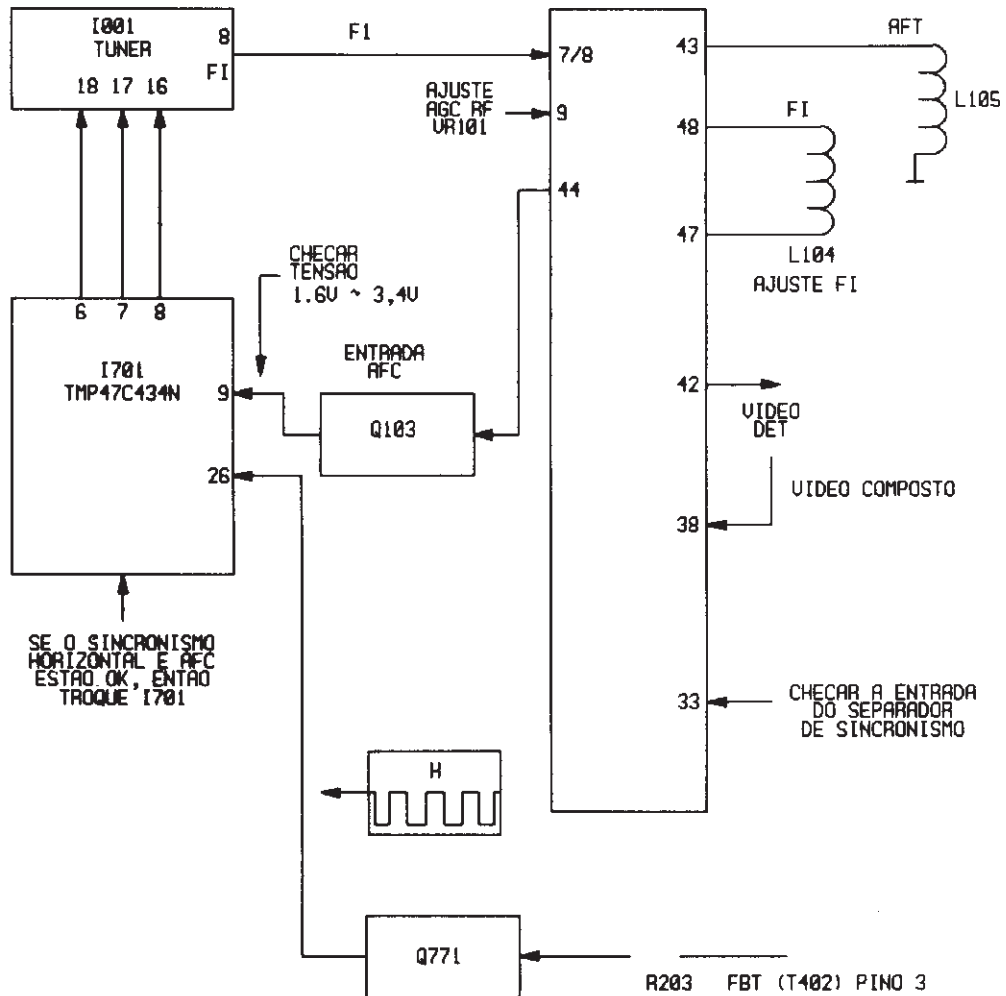
- NAO LIGA



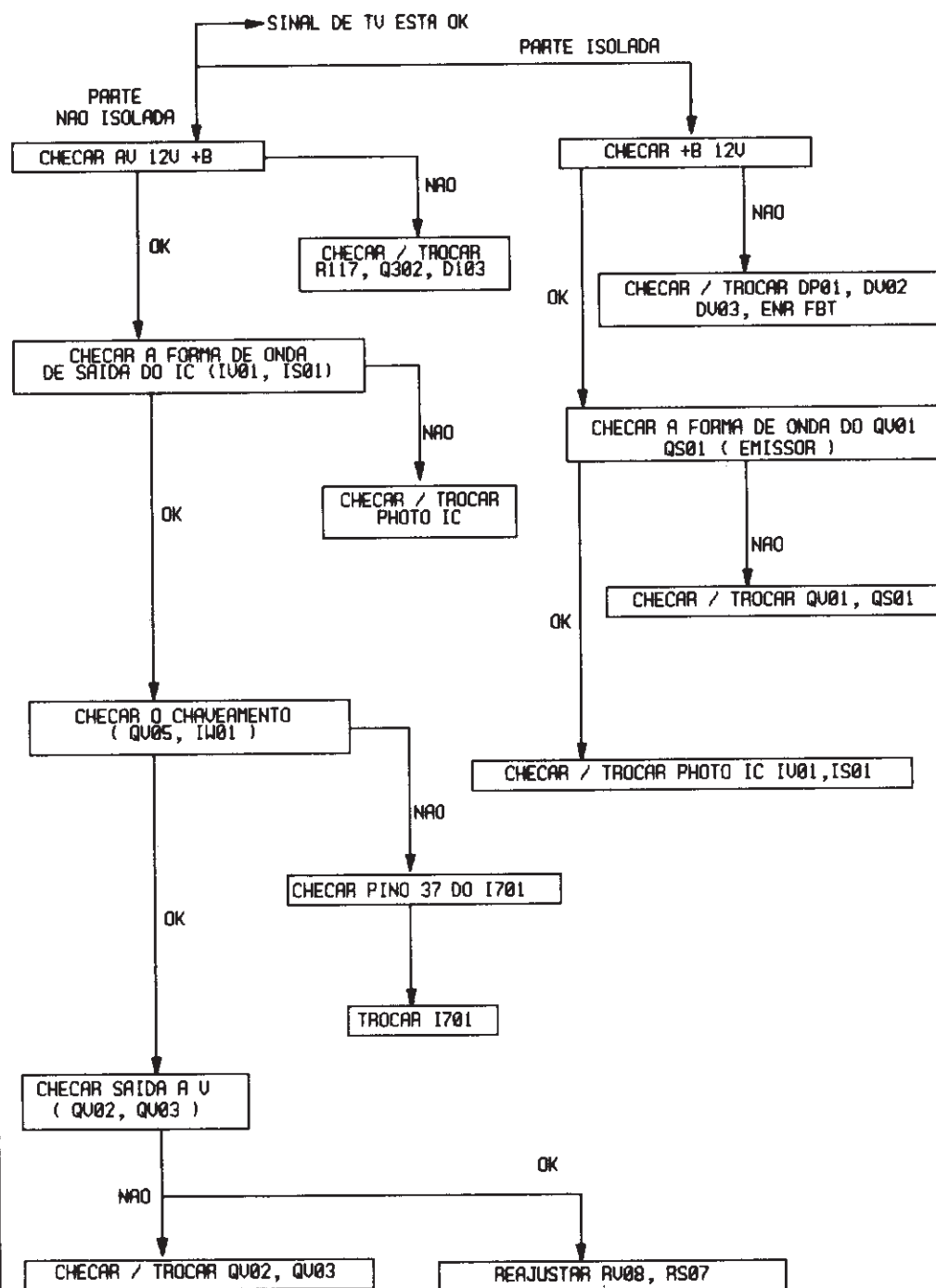
- CANAL NAO PARA



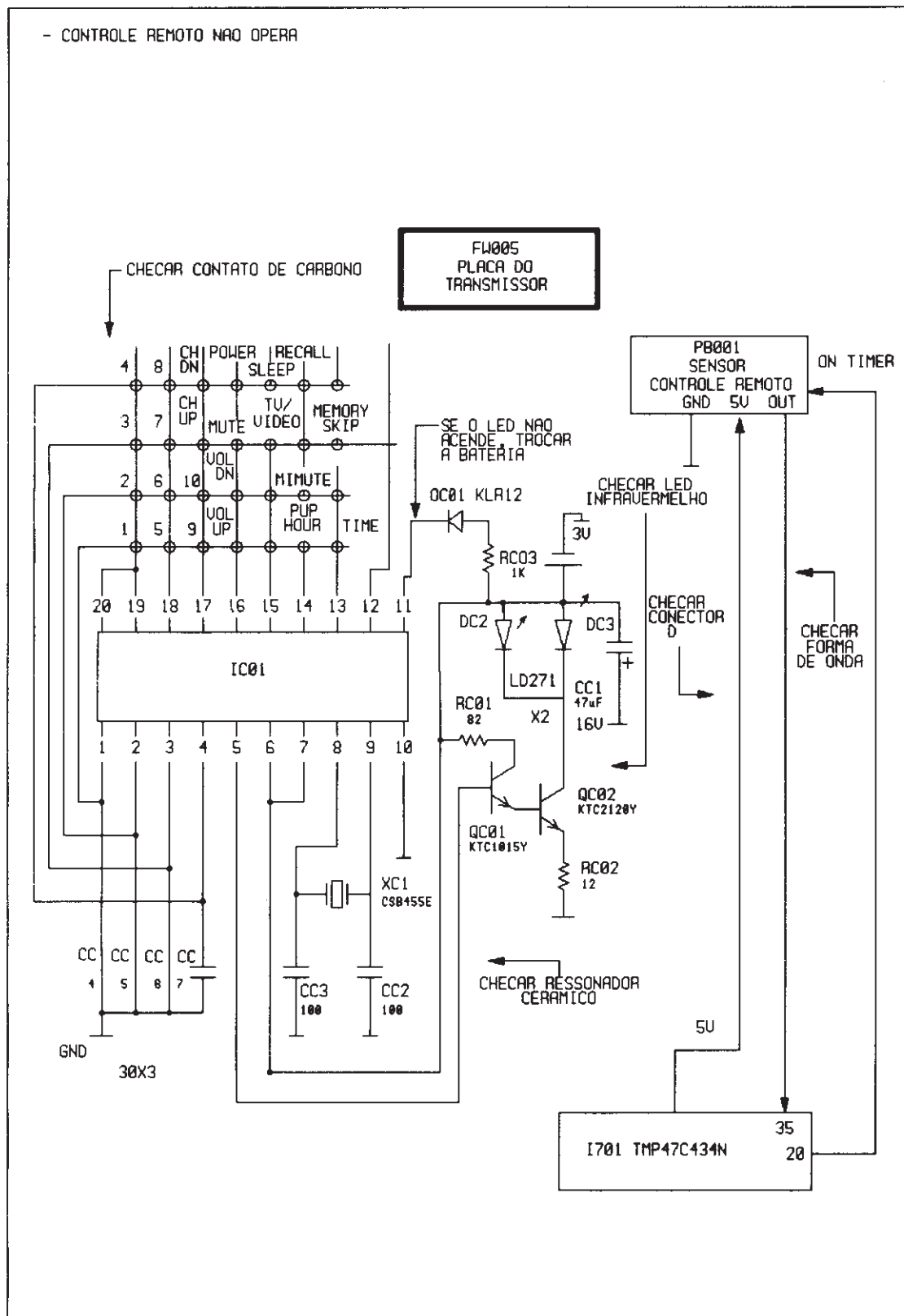
A



- ENTRADA DE AUDIO E VIDEO NAO OPERA

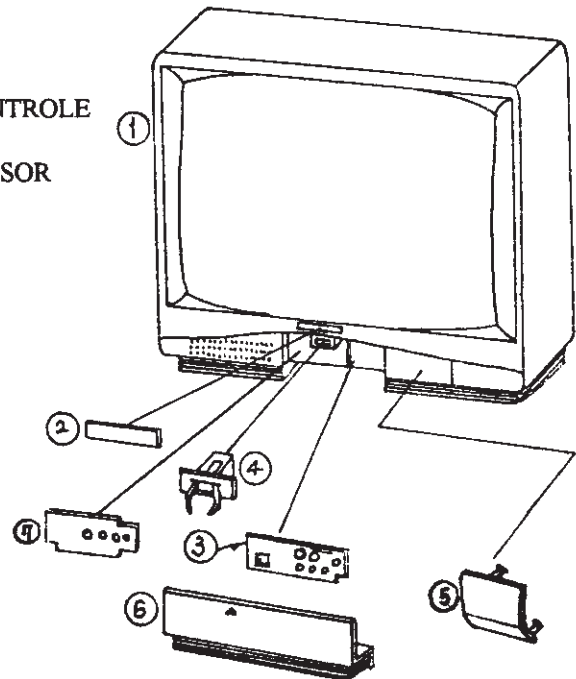


- CONTROLE REMOTO NAO OPERA



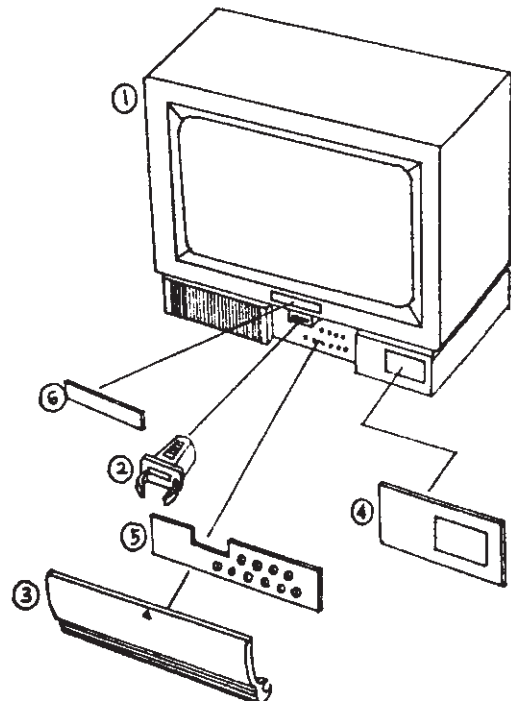
VISTA EXPLODIDA - 20 POLEGADAS

- | | |
|---------------|---------------------------|
| 1- GABF2011 | GABINETE FRONTAL |
| 2- EMBL2011 | EMBLEMA CINERAL |
| 3- DEC5046904 | PLACA DECORATIVA CONTROLE |
| 4- DOL7923300 | TRAVA DA PORTA |
| 5- DEC5513301 | PLACA DECORATIVA SENSOR |
| 6- DOR2810301 | PORTA |



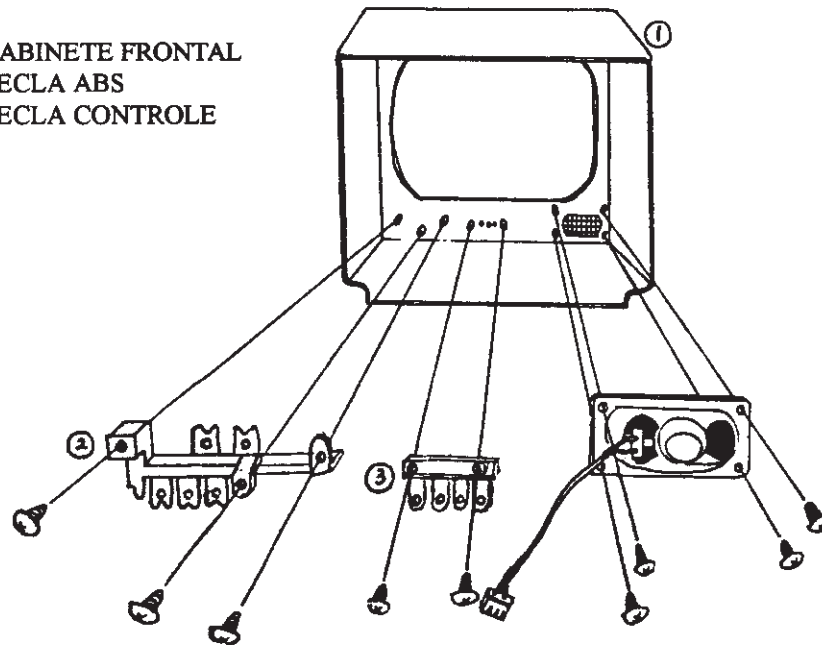
VISTA EXPLODIDA - 14 POLEGADAS

- | | |
|---------------|---------------------------|
| 1- GABF1411 | GABINETE FRONTAL |
| 2- DOL7923300 | TRAVA DA PORTA |
| 3- DOA2807101 | PORTA |
| 4- DEC5045121 | PLACA DECORATIVA LED |
| 5- DEC5047002 | PLACA DECORATIVA CONTROLE |



VISTA EXPLODIDA - 20 POLEGADAS

- | | |
|---------------|------------------|
| 1- GABF2011 | GABINETE FRONTAL |
| 2- BUP4918701 | TECLA ABS |
| 3- BUC4827702 | TECLA CONTROLE |



VISTA EXPLODIDA - 14 POLEGADAS

- | | |
|---------------|------------------|
| 1- GABF1411 | GABINETE FRONTAL |
| 2- BUP4918701 | TECLA ABS BK |
| 3- BUC4827702 | TECLA CONTROLE |

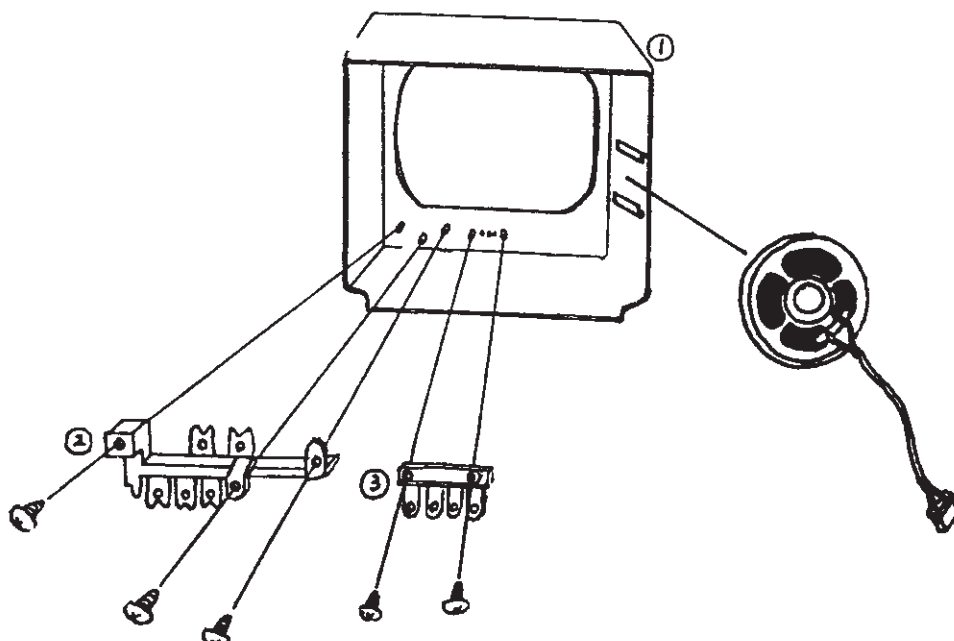
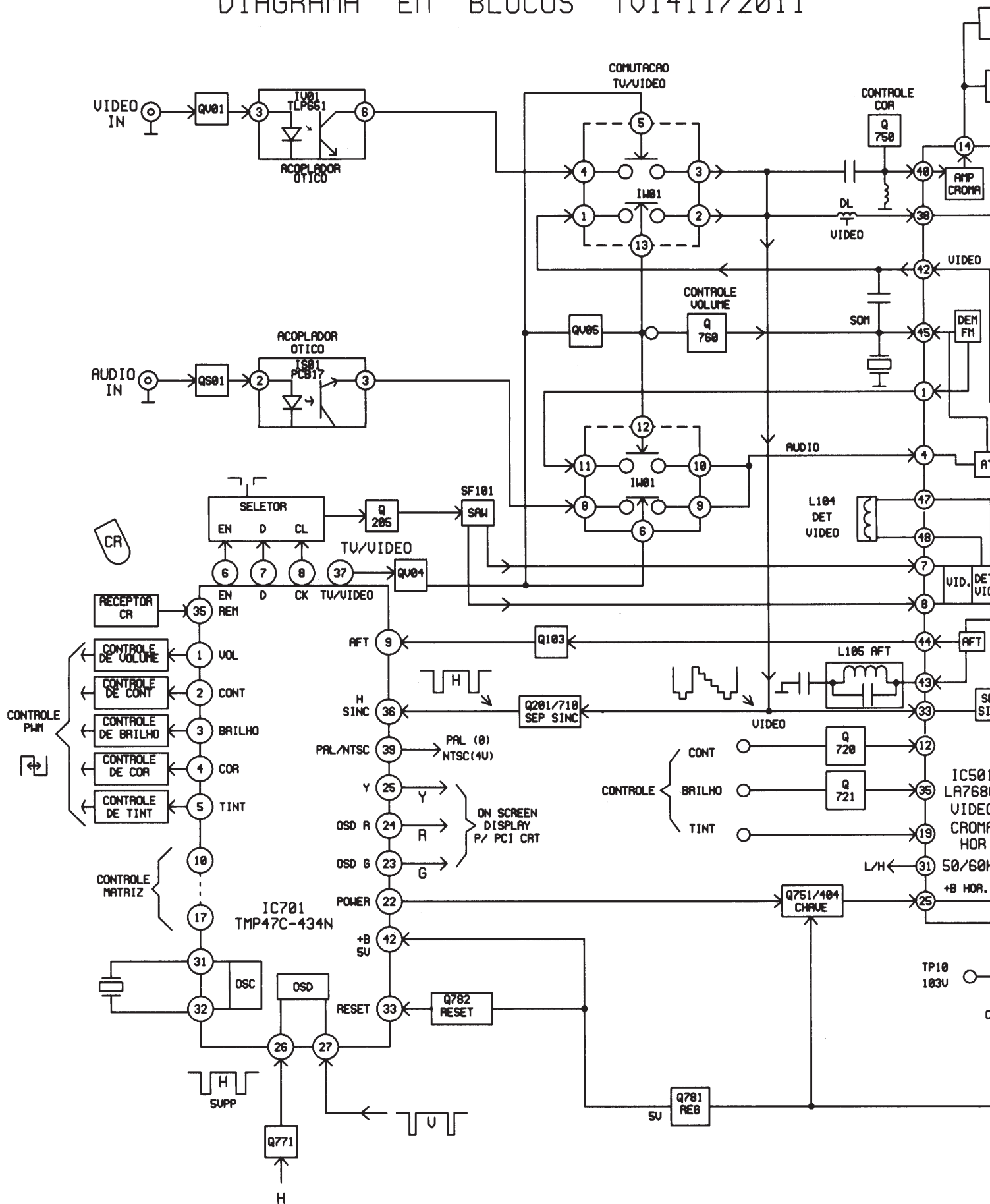
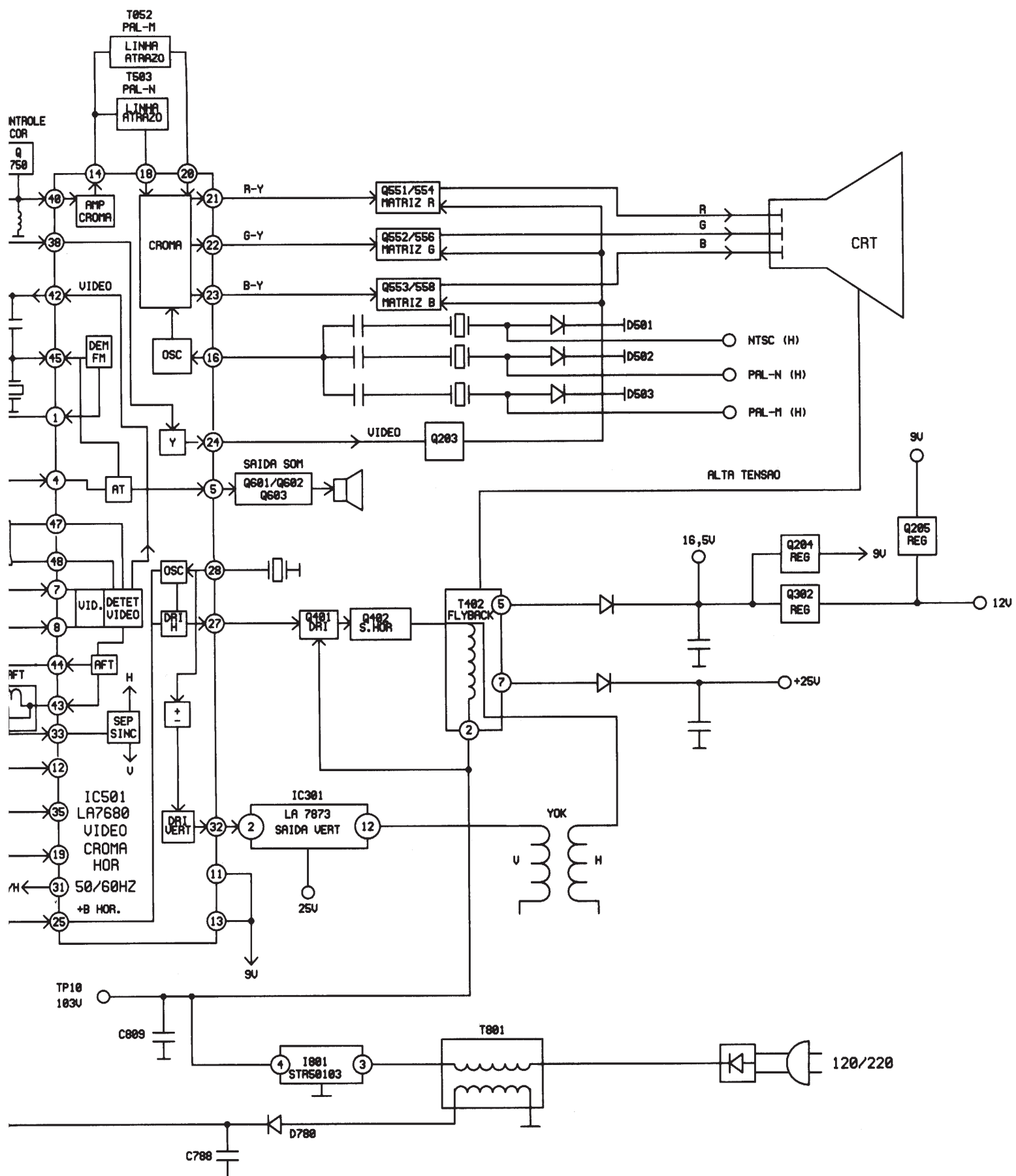
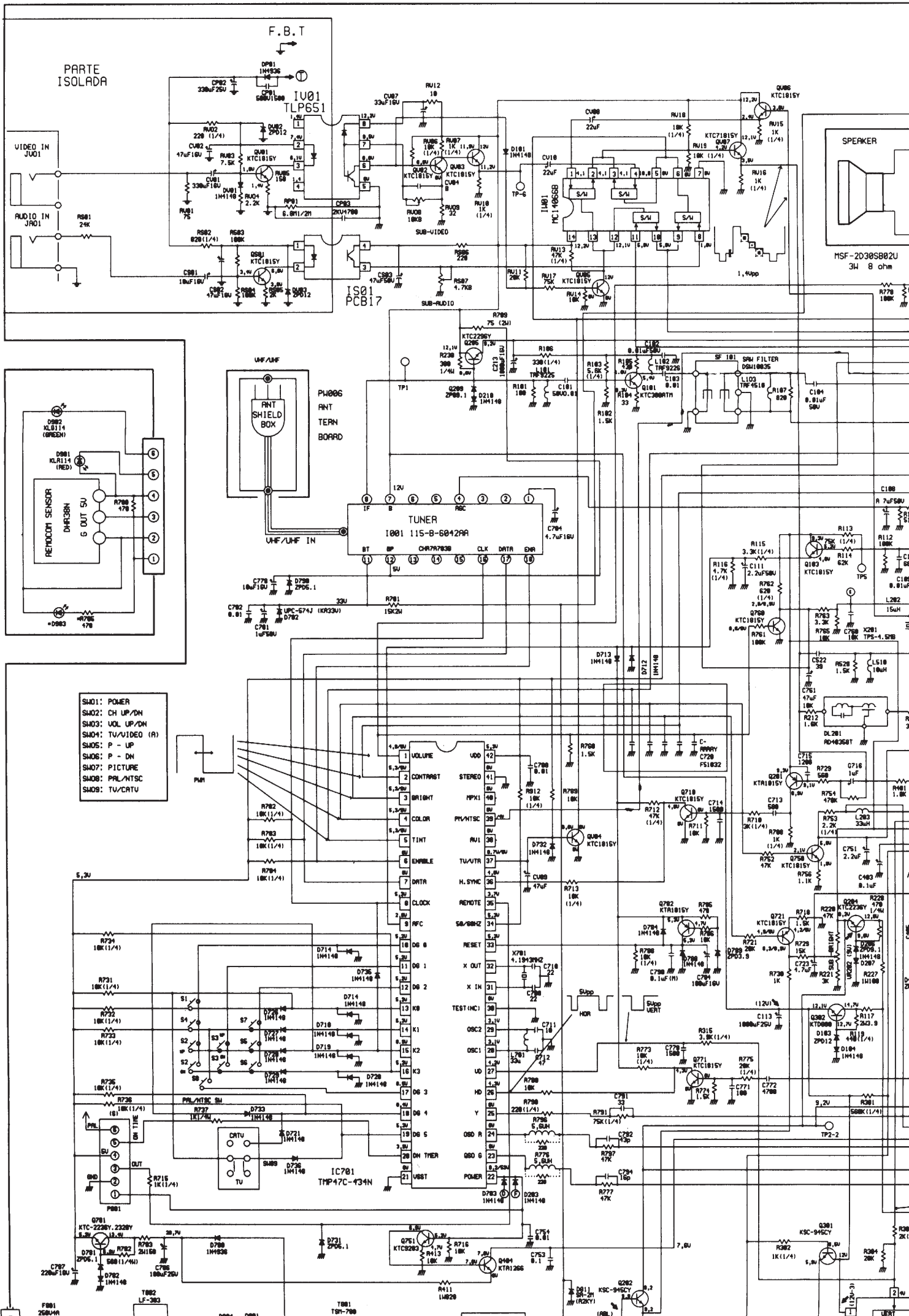
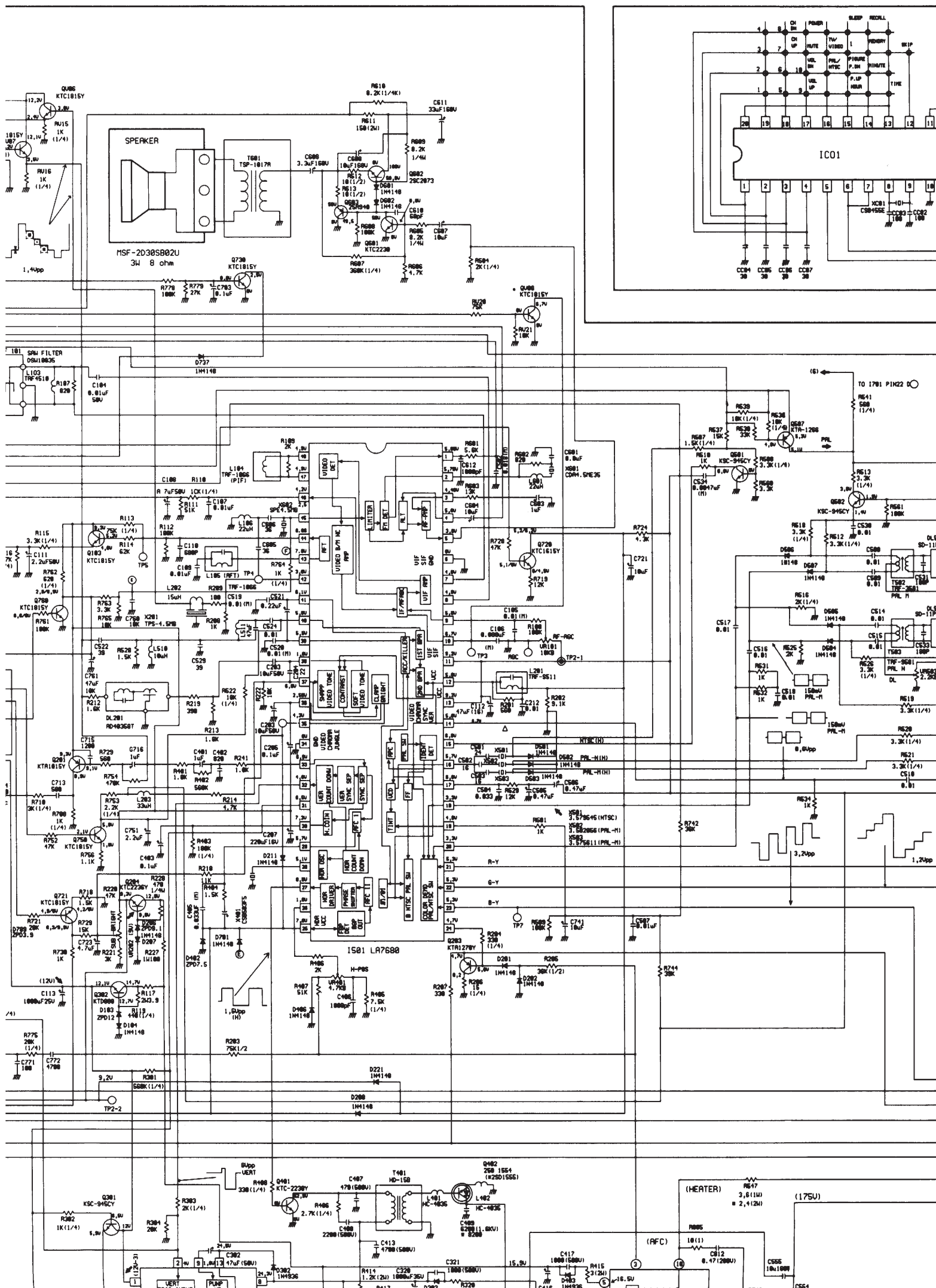


DIAGRAMA EM BLOCOS TV1411/2011









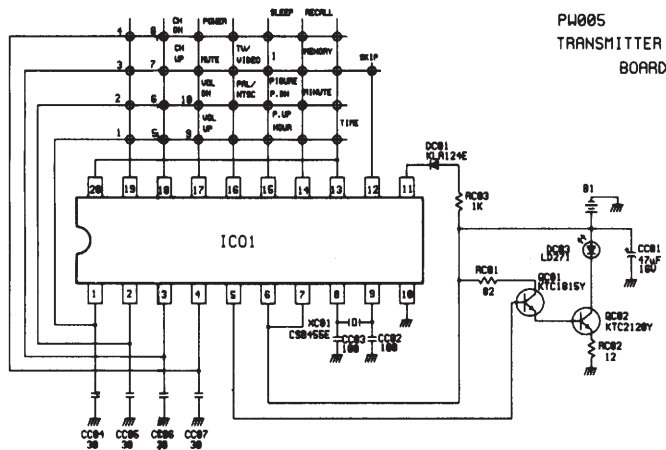
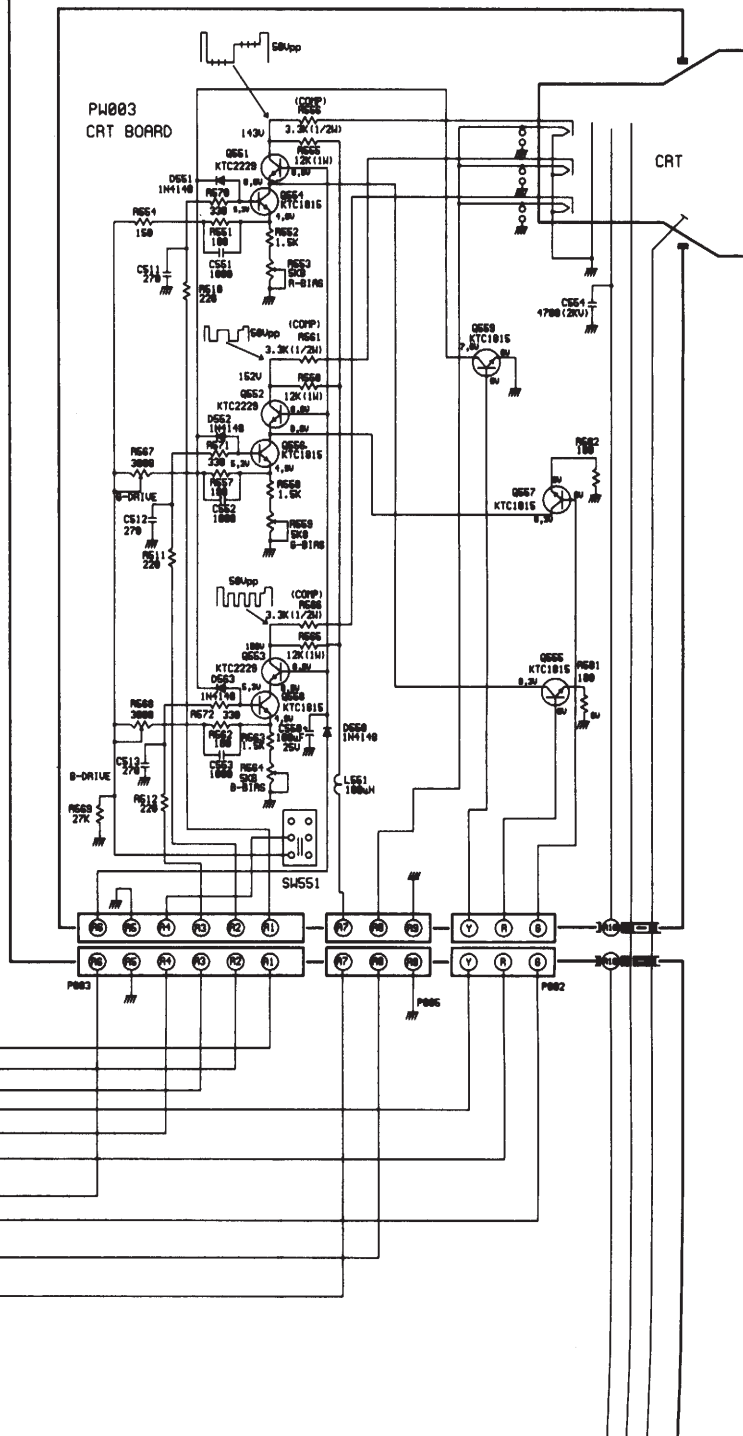
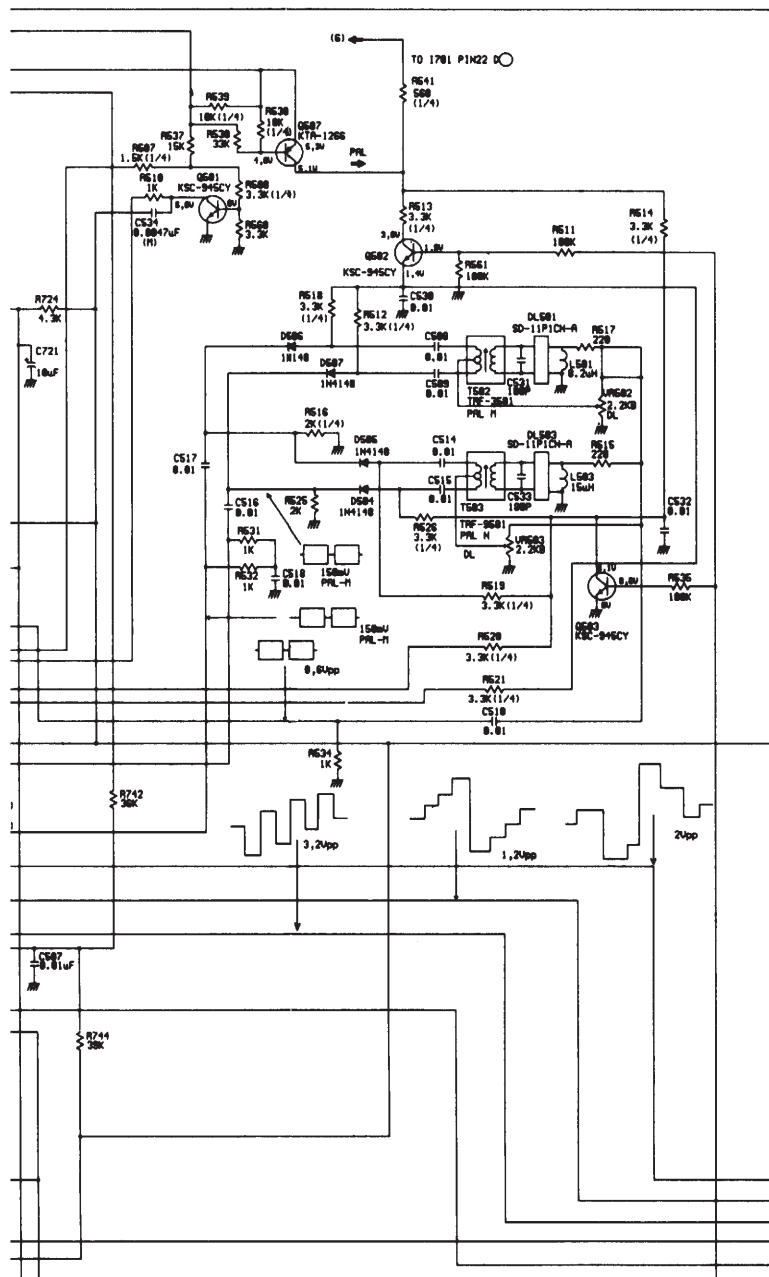
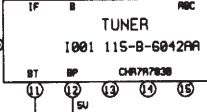
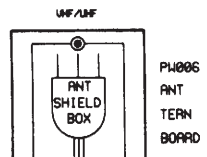
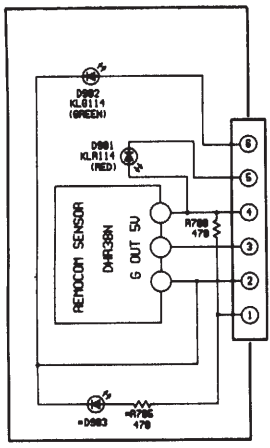


DIAGRAMA ESQUEMATICO C-750 CHASSIS

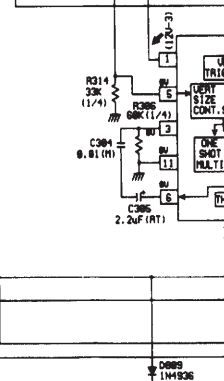
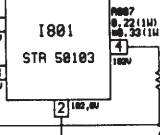
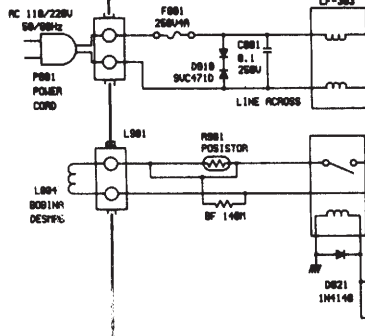
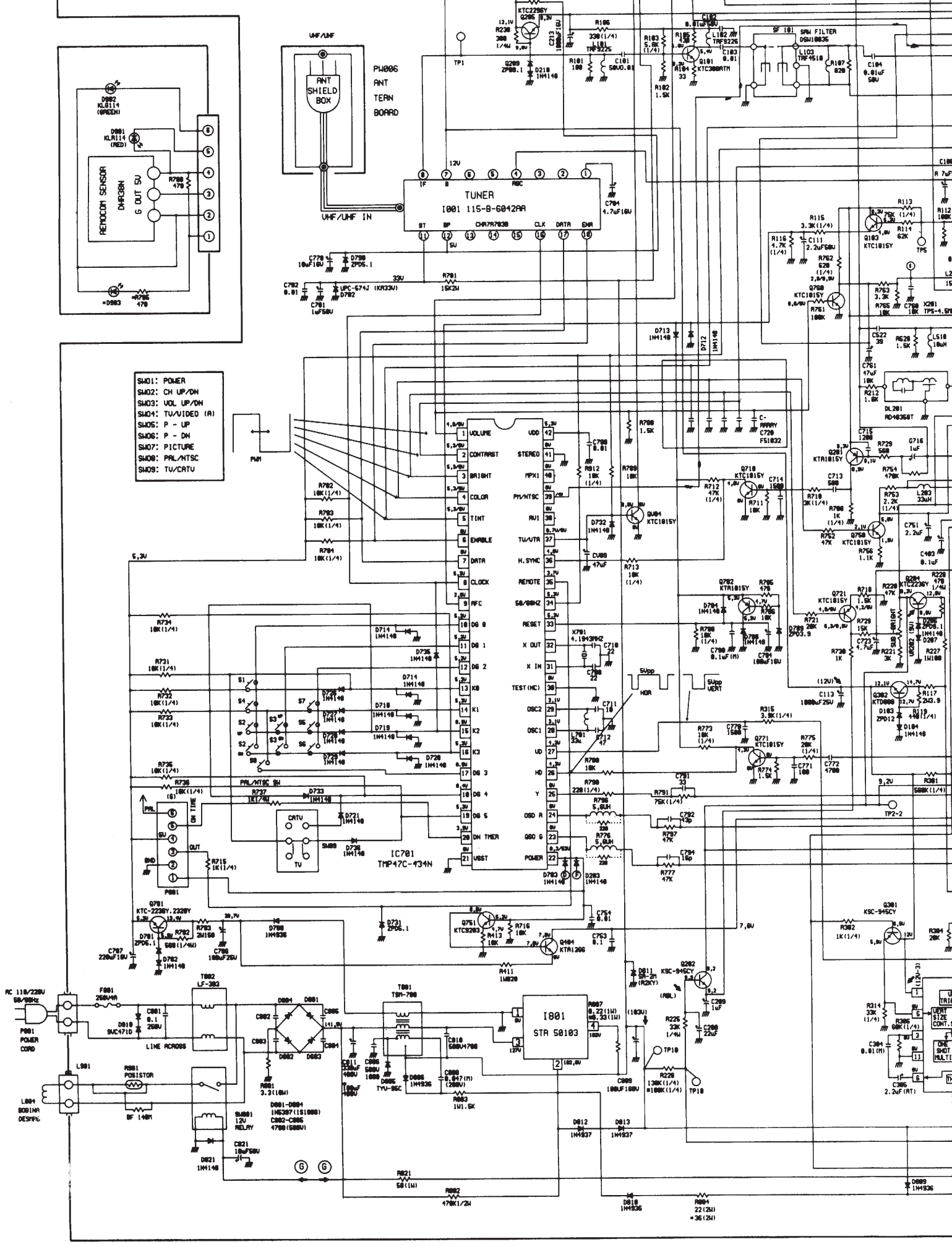
NOTE :

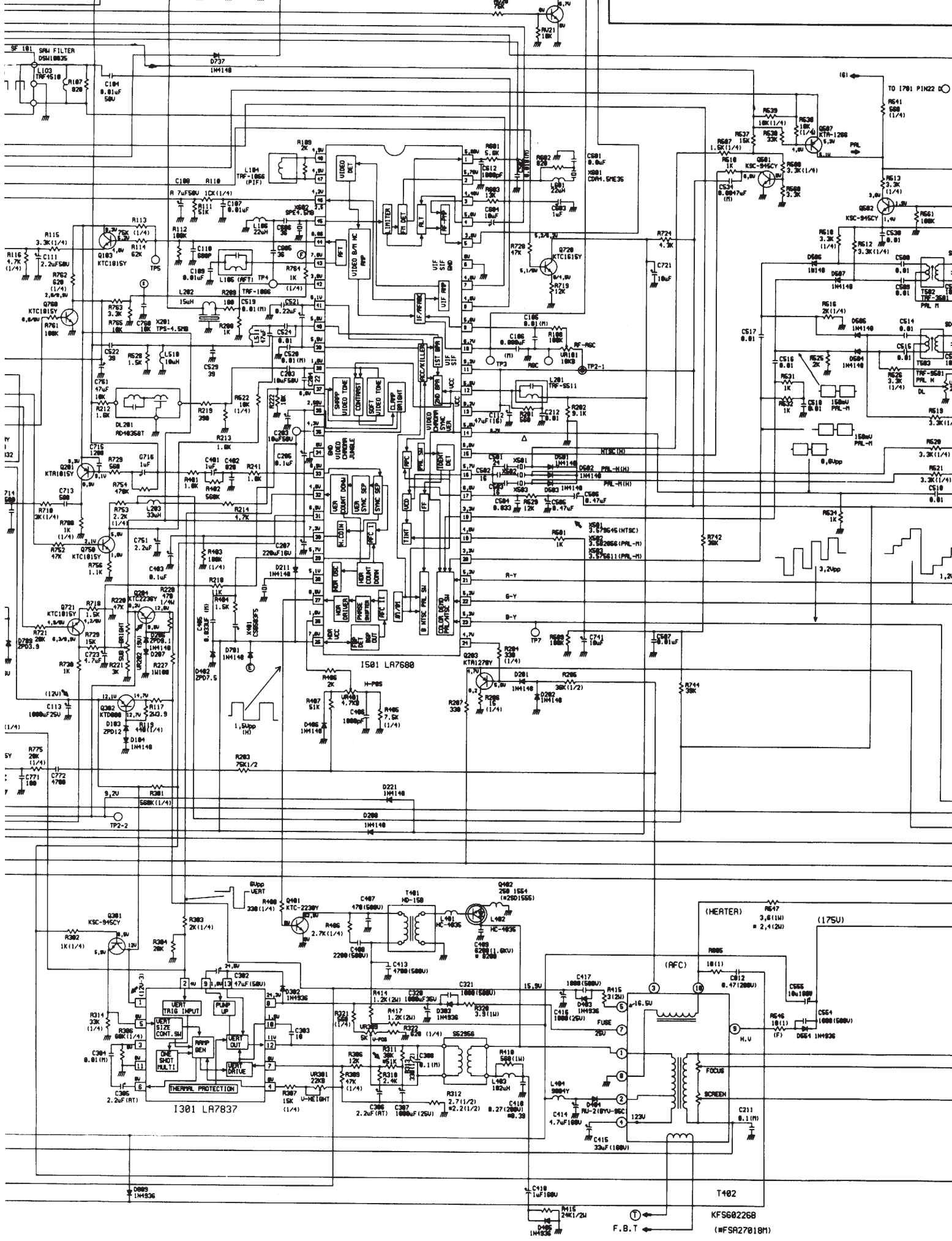
1-OS COMPONENTES MARCADOS COM
ASTERISCO SAO USADOS NO 20"





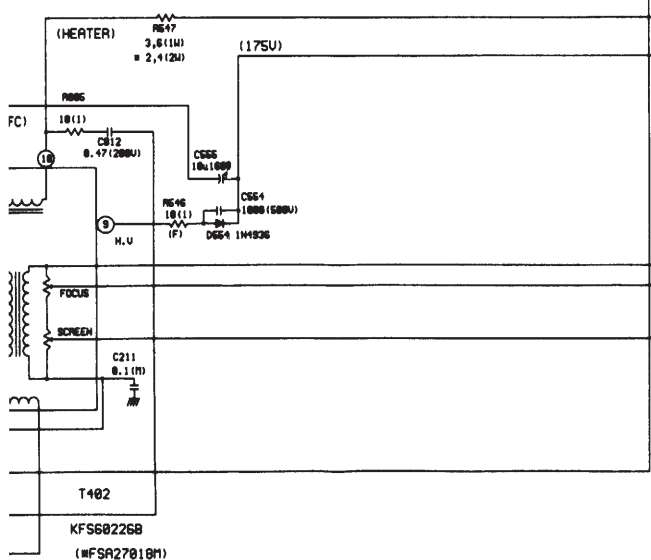
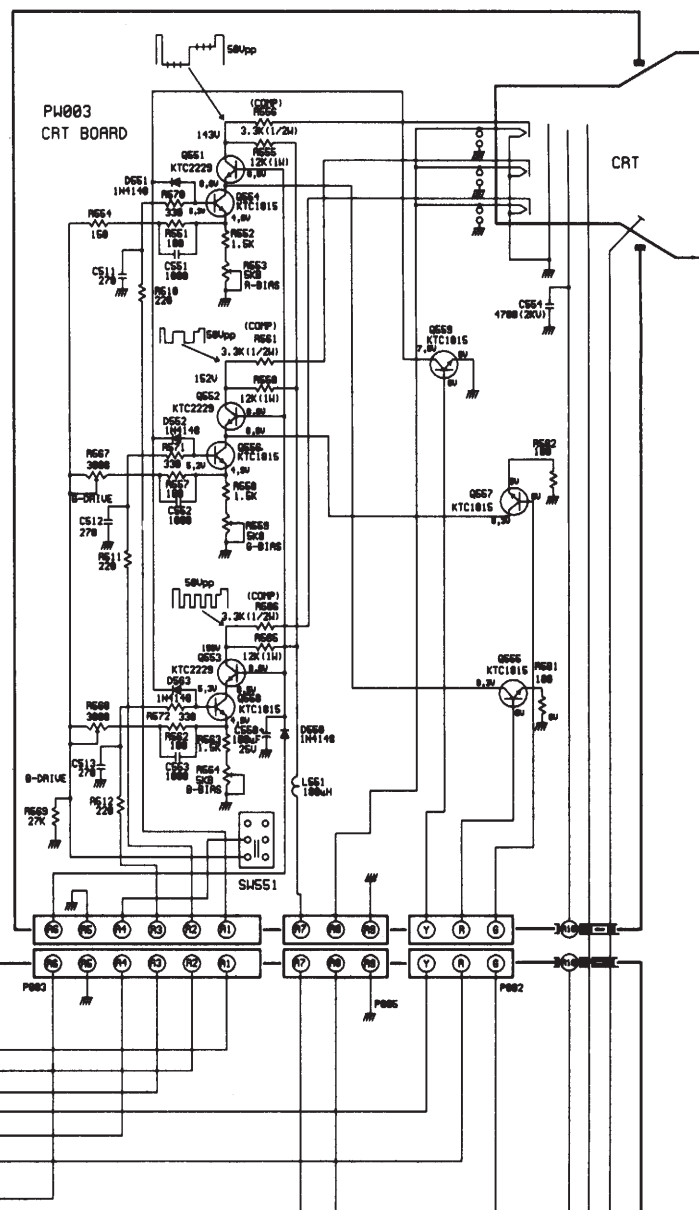
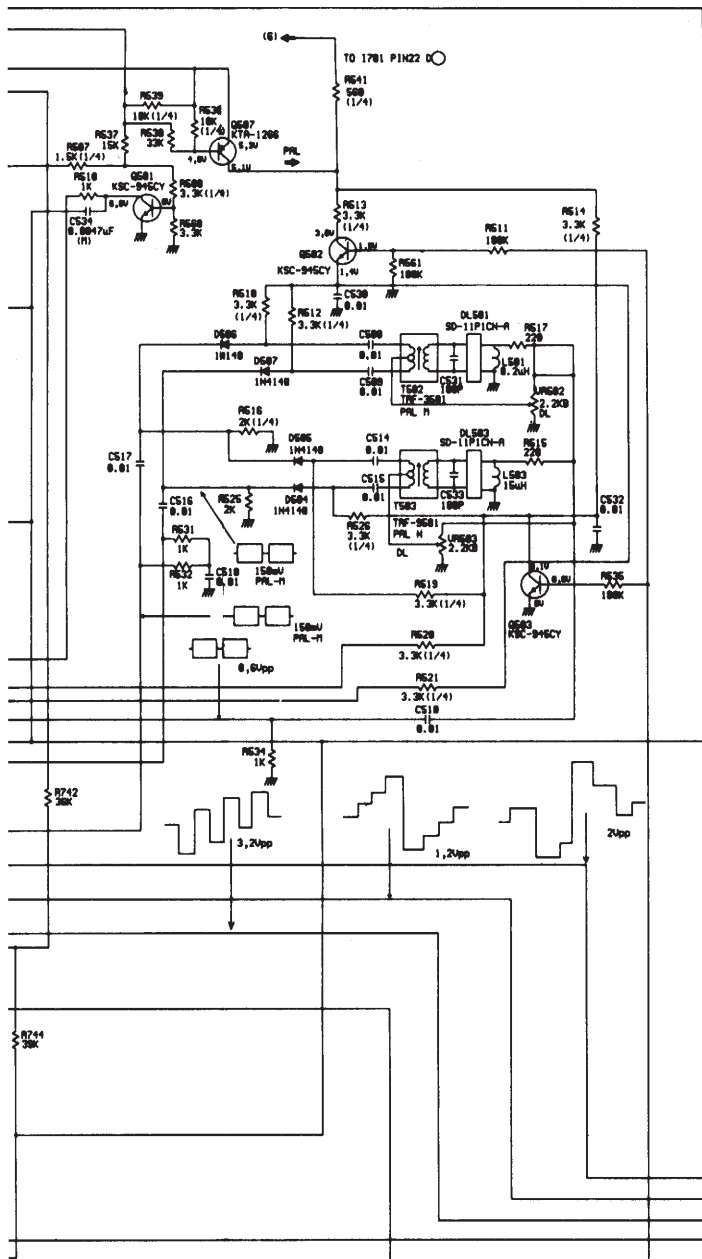
- SW01: POWER
- SW02: CH UP/DN
- SW03: VOL UP/DN
- SW04: TU/VIDEO (A)
- SW05: P - UP
- SW06: P - DN
- SW07: PICTURE
- SW08: PAL/NTSC
- SW09: TV/CATV





1-OS COMPONENTES MARCADOS COM

ASTERISCO SÃO USADOS NO 20"



CINERAL MOD:TCI411/2011

S/N : 4859804992

LISTA DE MATERIAL TC2011/1411
PEÇAS DE USO COMUM TC 2011 / TC 1411

CODIGO	DESCRIÇÃO	QTDE	POSIÇÃO
CCM103050Z1	C ARRAY 6P(5) 0.01MF Z 50V	1	C720
CCD102500K0	C CERA 500V B 1000PF	4	C321 C417 C554 C806
CCD152500K0	C CERA 500V B 1500 PF	1	CP01
CCD222500K0	C CERA 500V B 2200PF	1	C408
CCD471500K0	C CERA 500V B 470PF K	2	C407 C870
CCD472500P0	C CERA 500V E 4700PF P	6	C413 C802 C803 C804 C805 C810
CCD472400M	C CERA AC400V 4700PF	1	CP03
CER100160M	C ELECTR 160V RS 10MF	2	C555 C608
CER4C7160M	C ELECTRO 160V RS 4.7MF	1	C414
CER101160M	C ELECTRO 160V RSS 100MF	1	C809
CER1C0160M	C ELECTRO 160V RSS 1MF	1	C419
CER330160M	C ELECTRO 160V RSS 33MF	2	C415 C611
CER3C3160M	C ELECTRO 160V RSSS 3.3MF	1	C609
CER331400M	C ELECTRO 400V LHS 330MF	1	C811
CFL104250VAC	C LINE ACROSS AC250V 0.1ME	1	C801
CPM473200K	C MYLAR 200V 0.047MF K	1	C808
CPP474200J	C MYLAR 200V 0.47MF J	1	C812
CPP394200J	C MYLAR 200V 0.39MF J	1	C410
BFC9430599	COIL CHOKE AZ-9004 Y (94UH)	1	L404
MIRH55UH7P5A	COIL CHOKE TRF-9225 (0.55UH)	2	L101 L102
LAB040358T	COIL DELAY LINE B040358T 3.58MHZ	1	DL201
LASD11P1CM-A	COIL DELAY LINE SD-11P1CM-A	1	DL501
LASD11P1CN-A	COIL DELAY LINE SD-11P1CN-A	1	DL503
BT3R58040	COIL FILTER TRF-3581	2	T502 T503
BTF3R58042	COIL FILTER TRF-S511	1	L201
BLH0000016	COIL LINEARITY L-102 (102UH)	1	L403
BTB49R3041	COIL PIF TRF-1066	2	L104 L105
XT35756MA	CRYSTAL 3.575611MHZ	1	X503
XT35820MA	CRYSTAL 3.582056MHZ	1	X502
XT41943MA	CRYSTAL 4.194304MHZ	1	X701
XT35795MA	CRYSTAL 3.579545MHZ	1	X501
DIC1N4937	DIODE IN 4937-GP	2	D812 D813
DIADR2KY	DIODE AVALANCHE R 2-KY	1	D811
DICBYV95C	DIODE BYV 95-C	2	D404 D805
FCECDA45ME35	FILTER CERA CDA 4.5ME35S	1	X601
FCESFE45MB	FILTER CERA SFE 4.5MB	1	X602
FCETPS45MB	FILTER CERA TPS-4.5MB(TRAP)	1	X201
TLILF303	FILTER LINE LF-303	1	T802
SAWDSW1003S	FILTER SAW DSW 1003 S	1	SF101
CINLA7680	IC LA7680	1	I501
CINLA7837	IC LA7837	1	I301
CINTMP4N3117	IC MICOM TMP47C-434-3117	1	I701
CINPC817	IC PHOTO COUPLER PC817	1	IS01
CINTLP651	IC PHOTO COUPLER TLP 651	1	IV01
CINDHR38N	IC PREAMP DHR38N	1	IC703
CINSTR50103A	IC STR50103A	1	I801
CINTC4066BP	IC TC 4066BP	1	IW01
DIZUPC574J	IC UPC574J	1	D702
TOMRCAYSCJ92	JACK PHONE YSC-J-9	1	JA01
TOMRCAYSCJ94	JACK PHONE YSC-J-9	1	JV01
POSC262BF140	POSISTOR PTH451C262BF140M270	1	R901
DOL7923300	DOOR LOCK	1	

LISTA DE MATERIAL TC 2011/1411
PEÇAS DE USO COMUM TC 2011 / TC 1411

CODIGO	DESCRIÇÃO	QTDE	POSIÇÃO
RFM1532WOJ	R M-OXIDE FILM 2W 15K OHM J	1	R701
RF03R310WJ	R M-OXIDE 10W 3.3 OHM J	1	R801
RFUR221W0J	R FUSIBLE 1W 0.22 OHM K	1	R807
RFU1001WOJ	R FUSIBLE 1W 10 OHM J	1	R546
FUS3R02W0J	R FUSIBLE 2W 3 OHM J	1	R415
RFM1001W0J	R M-OXIDE FILM 1W10 OHM J	1	R805
RFM1011W0J	R M-OXIDE FILM 1W 100 OHM J	1	R227
RFM1521WOJ	R M-OXIDE FILM 1W 1.5K OHM J	1	R803
RFM3R91W0J	R M-OXIDE FILM 1W 3.9 OHM J	1	R320
RFM5611W0J	R M-OXIDE FILM 1W 560 OHM J	1	R410
RFM6801W0J	R M-OXIDE FILM 1W 68 OHM J	1	R821
RFM8211W0J	R M-OXIDE FILM 1W 820 OHM J	1	R411
RFM1512W0J	R M-OXIDE FILM 2W 150 OHM J	2	R611 R783
RFM1222W0J	R M-OXIDE FILM 2W 1.2K OHM J	2	R414 R417
RFM2202W0J	R M-OXIDE FILM 2W 22 OHM J	1	R804
RFC3R92W0J	R M-OXIDE FILM 2W 3.9 OHM J	1	R117
RFM7502W0J	R M-OXIDE FILM 2W 75 OHM J	1	R709
RUT502H50005	R SEMI FIXED CET 117A-B 5K OHM	1	R564
RVT103H50005	R SEMI FIXED H1051A-B 10K	2	RV08 VR101
RVT223H50005	R SEMI FIXED H1051A-B 22K	2	VR202 VR301
RVT222H50005	R SEMI FIXED H1051A-B 2.2K	2	VR502 VR503
RVT472H50005	R SEMI FIXED H1051A-B 4.7K	3	RS07 VR302 VR401
RECCSB500F25	RESONATOR CERA CSB 500 F25	1	X401
PSW0202013	SW PUSH SPUJ19XSM011	1	SW09
RLY0101003	SW RELAY DG12D1-0(M)	1	S801
MSW0101008	SW TACT KPT-1105V	6	SW01 SW04 SW05 SW06 SW07 SW08
MSW0202002	SW TACT PKT-2105A	2	SW02 SW03
TRAA1266Y	TR KTA 1266Y 1015Y	4	Q201 Q404 Q507 Q782
TRAA1270Y	TR KTA 1270Y 562TMY	1	Q203
TRAA940	TR KTA 940 (KSA 940-H2)	1	Q603
TRAC1026Y	TR KTC 1026Y 2230AY	2	Q401 Q601
TRAC2073	TR KTC 2073 (KSC2073)	1	Q602
TRAC3197	TR KTC 3197 388ATM	1	Q101
TRAC3203Y	TR KTC 3203Y 2120Y	1	Q751
TRAC3205Y	TR KTC 3205Y 2236AY	3	Q204 Q205 Q781
TRAD1351Y	TR KTD 1351-Y (KTD 880-Y)	1	Q302
TDH0000022	TRANS DRIVE HD-15D	1	T401
TSAK0000015	TRANS OUTPUT TSP-1067	1	T601
TCH0000044	TRANS SMPS TSM-701	1	T801
SECCHR7A703B	TUNER VARACTOR CHR 7A703B	1	I001
DIVC471D14	VARISTOR SVC471D14A	1	D910
CCD4722KVK	C CERA 2KV B 4700PF K	1	C554
RCC332W50J	R CARBON COMP 1/2 3.3K OHM J	3	R556 R561 R561 R566
RFM1232W0J	R M-OXIDE FILM 2W 12K OHM J	3	R555 R560 R565
RVT301V60006	R SEMI FIXED CET 117A-B 300 OHM	2	R567 R568
RVT502H50005	R SEMI FIXED CET 117A-B 5K OHM	3	R553 R559 R564
PSW0202140	SW PUSH KPT-2201	1	SW551
TRAC1026Y	TR KTC 1026Y 2230AY	3	Q551 Q552 Q553
TRAC3198Y	TR KTC 3198Y 1815Y	6	Q554 Q555 Q556 Q557 Q558 Q559
ANTOA02510	ANT ROD TSA-8108B L=600MM	1	40
CNOA05540	ANT SHIELD BOX S-10=130	1	50
BUP4813901	BUTTON PUSH ABS BK	1	110
RET3311601	RETAINER BACK HIPS NC	2	80
RECON0207B	TRANSMITTER REMOCON R-7B	1	20

LISTA DE MATERIAL TC 2011/1411

PEÇAS EXCLUSIVA DO TC 1411

CODIGO	DESCRIÇÃO	QTDE	POSIÇÃO
CPM6221K6J	C MYLAR 1.6KV 6200PF J	1	C409
CPM274200J	C MYLAR 200V 0.27MF	1	C410
TSHU000063	FBT KFS-60226B	1	T402
RFU3R61W0J	R FUSIBLE 1W 3.6 OHM J	1	R547
TRAD1877	TR 2SD1877	1	Q402
SOC9301530	SOCKET CRT ISM-01	1	A002
DEG000078	COIL DEGAUSSING DC-1400	1	
DEC5045121	DECO LED PVC CL T0.5	1	
DEC5047002	DECO VR. PVC T0.2 SILK	1	
DOA2807101	DOOR ABS BK+PAINT	1	
DOL7923300	DOOR LOCK LA701 (KIFCO)	1	
FAL8309010	SPEAKER 5W 8 OHM	1	
A34EDJ01X160	CINESCOPIO PHILIPS A34EDJ01X160	1	
EMBL1411	EMBLEMA CINERAL	1	
GABF1411	GABINETE FRONTAL TC1411	1	
GABT1411	GABINETE TRAZEIRO TC1411	1	
BUA4916302	BUTTON ABS BK	1	
BUC4827702	BUTTON CONTROL "C" HG ABS BK	1	
BUP4813901	BUTTON PUSH ABS BK	1	
DEC5310200	DECO COVER PVC		
DEC5046904	DECO CTRL PVC		

LISTA DE MATERIAL TC 2011

PEÇAS EXCLUSIVA DO TC 2011 C/ TUBO PHILIPS

CODIGO	DESCRIÇÃO	QTDE	POSIÇÃO
CPP514200J	C MYLAR 200V 0.51MF J (PL)	1	C410
TSH0000153	FLY BACK FSA-27018M	1	T402
RFU2R42W0J	R FUSIBLE 2W 2.4 OHM J	1	R547
TRAD1878	TR 2SD1878	1	Q402
SOQCRT2011	SOCKET CRT CVT3240-0501 (ISH-02)	1	A002
A48EFD05X010	CINESCOPIO PHILIPS A48EFD05X010	1	
BUP4918701	BUTTON ABS BK	1	
BUC4827702	BUTTON CONTROL "C" HG ABS BK	1	
BUP4813901	BUTTON PUSH ABS BK	1	
DEGDC2000	COIL DEGAUSSING DC-2000	1	
DEC5050401	DECO CTRL B PVC T0.2	1	
DEC5046904	DECO CTRL PVC T0.2	1	
DEC5513301	DECO SENSOR P.C SMOG	1	
DOR2810301	DOOR ABS BK	1	
EMBL2011	EMBLEMA CINERAL	1	
GABF2011	GABINETE FRONTAL	1	
GABT2011	GABINETE TRASEIRO TC2011	1	

LISTA DE MATERIAL TC 2011

PEÇAS EXCLUSIVAS DO TC 2011 C/ TUBO ORION

CODIGO	DESCRIÇÃO	QTDE	POSIÇÃO
CPP394200J	C MYLAR 200V 0.39MF J (PL)	1	C410
TSH1000069	FLY BACK FSA-60266	1	T402
RFU4R32W0J	R FUSIBLE 1W 4.3 OHM J	1	R547
TRAD1878	TR 2SD1878	1	Q402
SOQCRT1530	SOCKET CRT ISM-01	1	A002
A48JLL91X02	CINESCOPIO PHILIPS A48JLL91X02	1	
BUP4918701	BUTTON ABS BK	1	
BUC4827702	BUTTON CONTROL "C" HG ABS BK	1	
BUP4813901	BUTTON PUSH ABS BK	1	
DEGDC2000	COIL DEGAUSSING DC-2000	1	
DEC5050401	DECO CTRL B PVC T0.2	1	
DEC5046904	DECO CTRL PVC T0.2	1	
DEC5513301	DECO SENSOR P.C SMOG	1	
DOR2810301	DOOR ABS BK	1	
GABF2011	GABINETE FRONTAL TC2011	1	
GABT2011	GABINETE TRASEIRO TC2011	1	

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