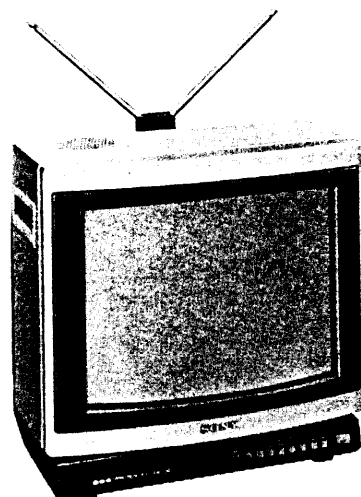


KV-1440UB

SERVICE MANUAL

UK Model
Chassis No. SCC-767A-A



May, 1986

XE-5 CHASSIS

SPECIFICATIONS

Television system	British TV standards
Colour system	PAL I
Channel coverage	UHF channels 21-68
Picture tube	Trinitron tube Approx. 36.8 cm (14 inches) 90 degree deflection (Approx. 33.7 cm picture measured diagonally)
Aerial	75-ohm standard coaxial socket Telescopic aerial (supplied)
Speaker	7.5 cm dia.
Audio output	1.5 W
Input/output	21-pin connector, Euro AV with the requirements of CENELEC standard
Power requirements	240 V AC, 50 Hz
Power consumption	63 Wh
Dimensions	Approx. 366 × 356.5 × 408.5 mm (w/h/d) (14 ¹ / ₂ × 14 ¹ / ₈ × 16 ¹ / ₈ inches)
Weight	Approx. 10.8 kg (23 lb 13 oz)
Accessories supplied	Telescopic aerial (1) Aerial connector (300 - 75 ohm matching transformer is built-in.) (1)

Design and specifications are subject to change without notice.

RTV servis Horvat

Tel: ++385-31-856-637

Tel/fax: ++385-31-856-139

Mob: 098-788-319

www.rtv-horvat-dj.hr



TRINITRON® COLOUR TV
SONY®



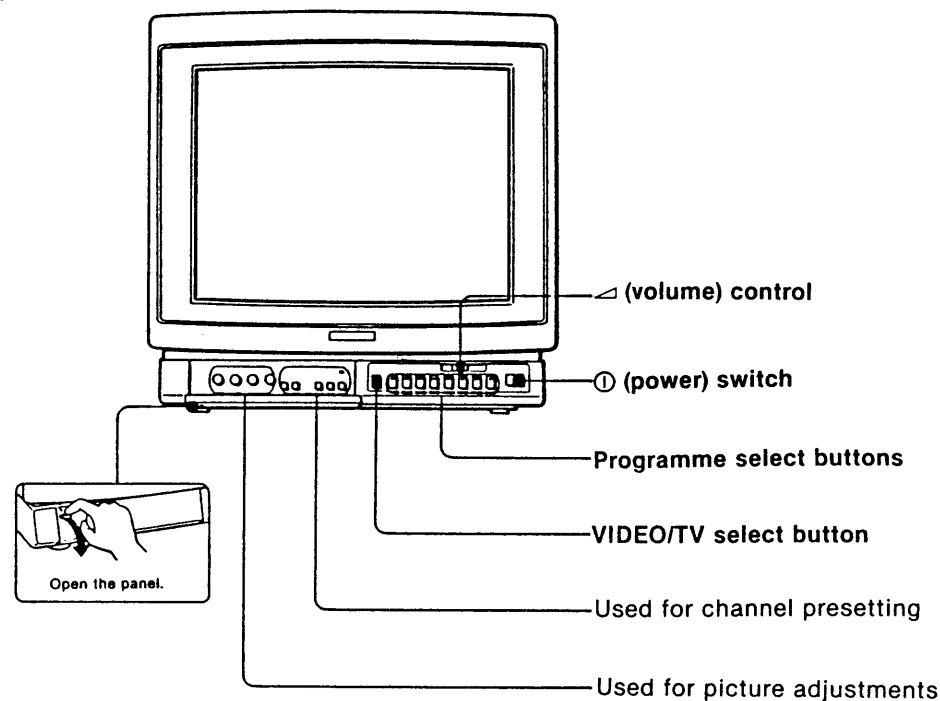
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SAFETY-RELATED COMPONENT WARNING !!
COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

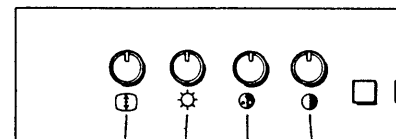
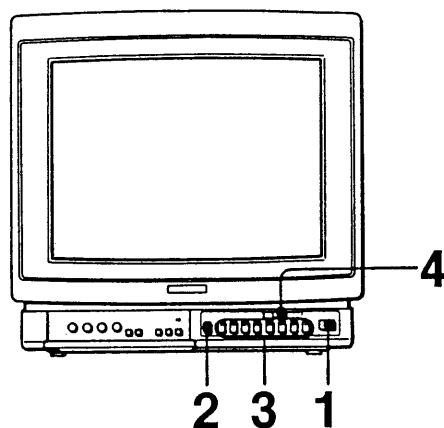


1-2. OPERATION

VIEWING TV PROGRAMME

PICTURE ADJUSTMENTS

Front panel opened



⓪ (vertical hold) control
☀ (brightness) control
● (picture) control
Ⓢ (colour) control

- 1 Depress ① to turn on the TV.
- 2 Press VIDEO/TV if the indicator on this button lights.
- 3 Press the desired programme select button. The indicator on the selected button lights.
- 4 Adjust the volume by sliding \triangle toward 10 for more volume, and toward 0 for less volume.

Note

To view the picture of the equipment connected to the 21-pin connector, press VIDEO/TV so that the indicator on the button lights. Then, operate the connected equipment.

to decrease picture contrast



to increase picture contrast

for less colour intensity



for more colour intensity

for less brightness



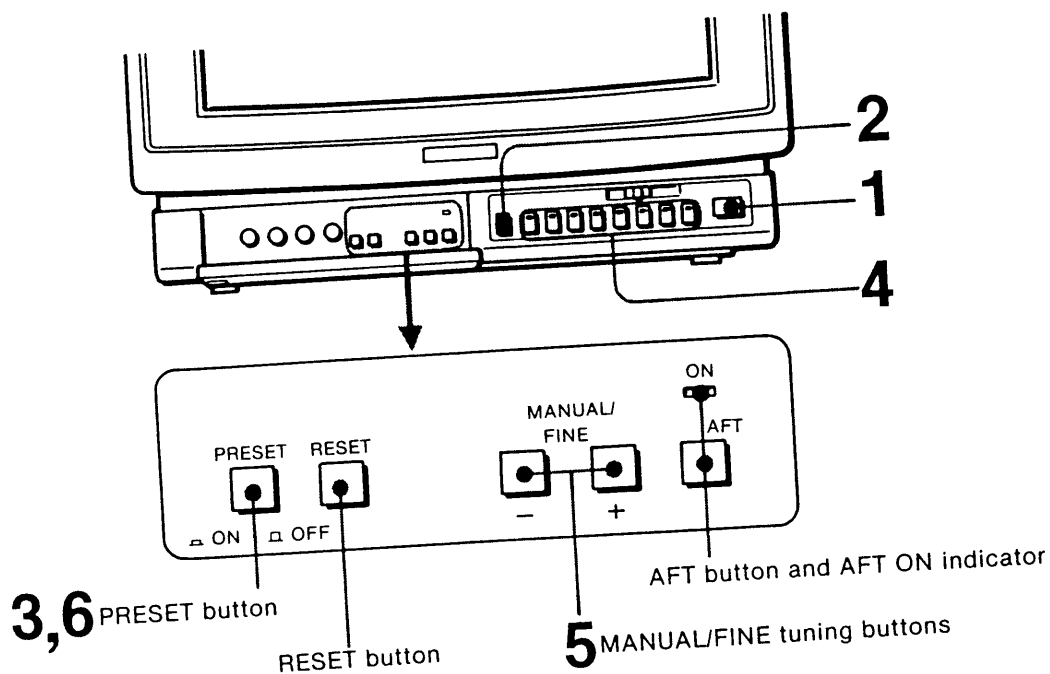
for more brightness



If the picture rolls vertically, turn to stabilize the picture.

1-3. CHANNEL PRESETTING

Up to 8 channels can be preset on the programme select buttons.



- 1 Depress ①.
- 2 Press VIDEO/TV if the indicator on this button lights.
- 3 Depress PRESET (ON) to set the TV in the preset standby mode.
- 4 Press the programme select button on which a channel is to be preset. The indicator on the button will blink.
- 5 Tune in the desired channel with +/- MANUAL/FINE.
 - + for higher-numbered channels
 - for lower-numbered channels
 First keep + or - MANUAL/FINE depressed until a picture will appear. Then repeat pressing the button momentarily until the best possible picture is obtained. If the channel located is not the desired one, repeat this procedure.
 - The TV can be reset to a frequency below the lowest channel by pressing RESET.

Repeat steps 4 and 5 for all desired channels.

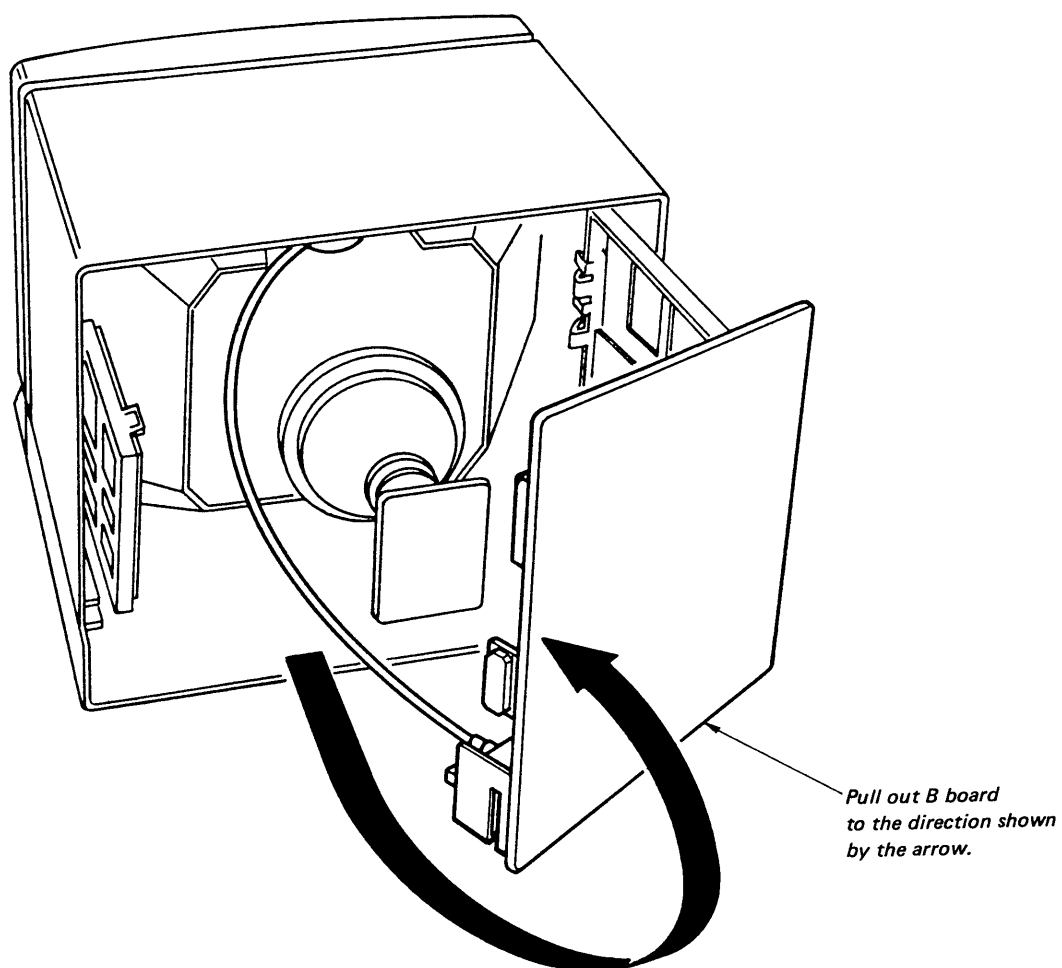
- 6 Press PRESET (OFF). The preset channels are memorized and the AFT circuit is automatically activated for clear picture. The AFT ON indicator lights.

FINE-TUNING OF A WEAK STATION

If the picture of a particular channel is not acceptable, make sure PRESET is set to OFF, and keep + or - MANUAL/FINE pressed until the picture becomes clearer. When either MANUAL/FINE is pressed, the automatic fine tuning on the selected channel is deactivated and the AFT ON indicator goes off, and the indicator on the programme select button blinks. To view this particular channel, keep the automatic fine tuning deactivated. (Do not press AFT.) When other channels are selected, the automatic fine tuning activates automatically.

SECTION 2 DISASSEMBLY

2-1. CHECKING FOR B BOARD UP



Note:

- ① Set the volume control on front panel to minimum.
- ② Remove the back cover and set the board as shown.

SECTION 2

EXPLODED VIEWS

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.

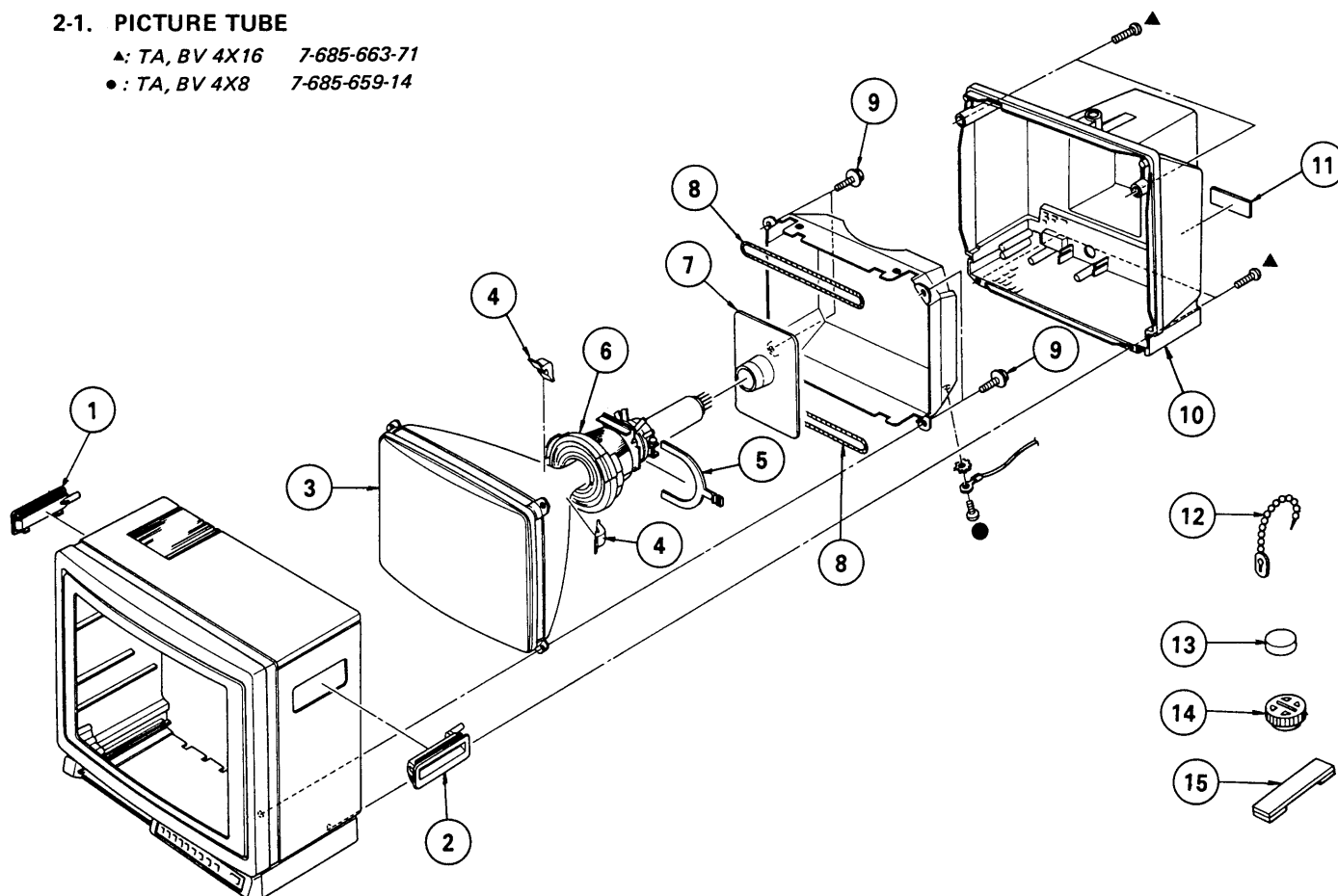
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

2-1. PICTURE TUBE

▲: TA, BV 4X16 7-685-663-71

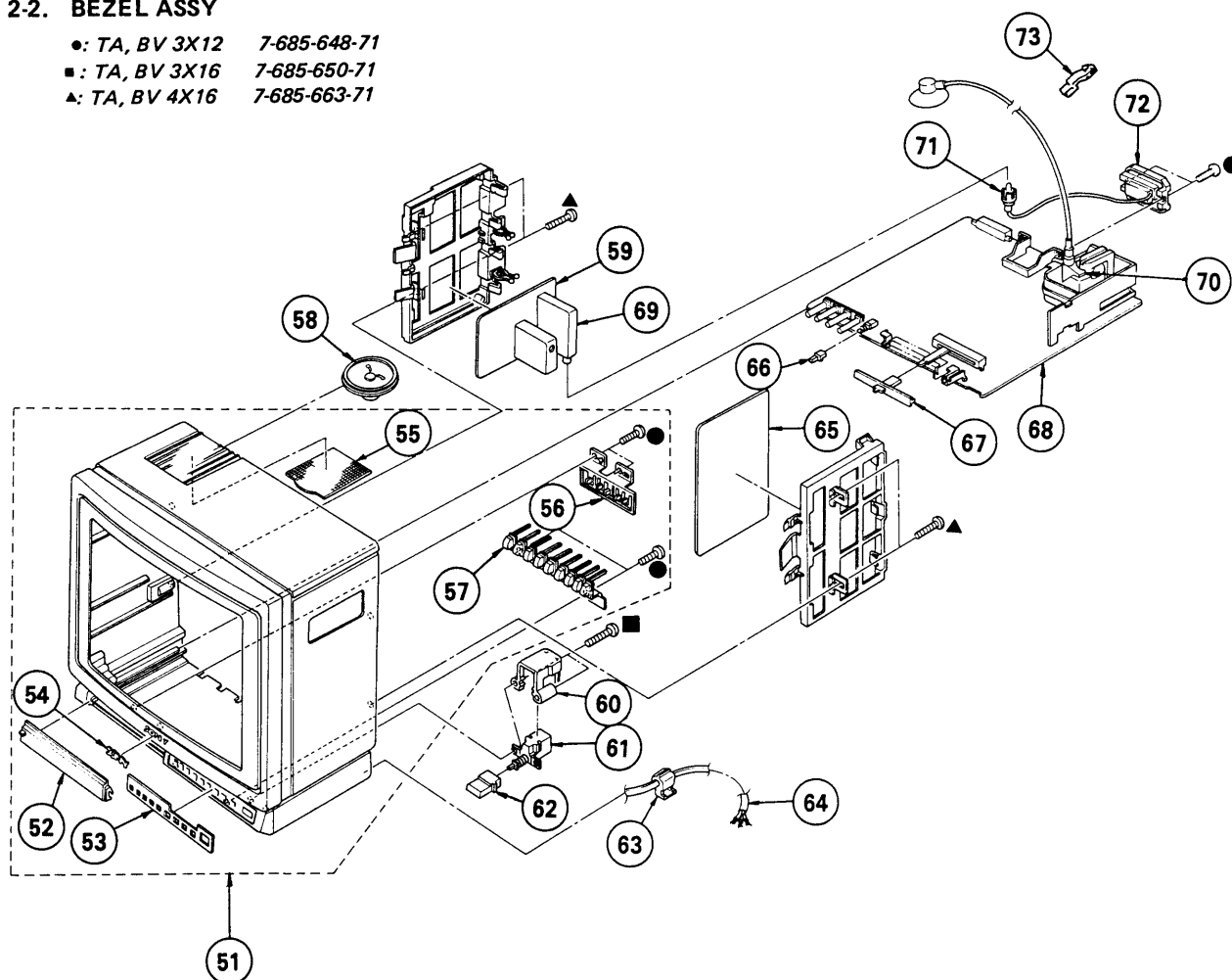
●: TA, BV 4X8 7-685-659-14



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-374-921-41	HANDLE (LEFT) FOR SILVER		8	▲ 1-426-145-13	COIL, DEGAUSSING	
	4-374-921-61	HANDLE (LEFT) FOR GRAY		9	4-365-808-00	SCREW (5), TAPPING	
2	4-374-920-31	HANDLE (RIGHT) FOR GRAY		10	4-376-557-11	COVER, BACK	
	4-374-920-41	HANDLE (RIGHT) FOR SILVER		11	*4-380-934-01	LABEL, MODEL NUMBER	
3	▲ 8-735-553-05	CRT (A34JBUI0X)		12	4-308-870-00	CLIP, LEAD WIRE	
4	3-703-961-01	SPACER, DY		13	1-452-032-00	MAGNET, DISK; 10MM ϕ	
5	1-452-277-00	MAGNET, BMC		14	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
6	▲ 1-451-249-31	DEFLECTION YOKE (SY-125B)		15	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
7	*A-1330-685-A	C BOARD, COMPLETE					

2-2. BEZEL ASSY

- : TA, BV 3X12 7-685-648-71
 ■: TA, BV 3X16 7-685-650-71
 ▲: TA, BV 4X16 7-685-663-71



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

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4374-955-1	BEZEL ASSY (FOR SILVER)	52-56	62	4-376-523-11	BUTTON (A), POWER	
	X-4374-955-2	BEZEL ASSY (FOR GRAY)		63	▲ 4-368-619-02	HOLDER, CORD, AC	
52	X-4374-954-1	DOOR ASSY, CONTROL		64	▲ 1-557-124-12	CORD, AC (3 CORE)	
53	4-376-577-01	WINDOW (E), TUNING		65	*A-1245-321-A	F BOARD, COMPLETE	
54	4-840-002-00	EMBLEM, SONY		66	4-376-524-01	BUTTON, PRESET	
55	*4-374-962-01	NET, SPEAKER		67	4-376-579-01	KNOB, (B), VOLUME	
56	4-376-518-21	BUTTON, MULTI		68	*A-1135-374-A	B BOARD, COMPLETE	
57	X-4374-933-3	BUTTON ASSY, TUNING		69	▲ 1-463-593-11	TUNER, ET (BT-882A)	
58	1-503-344-21	SPEAKER		70	▲ 1-439-311-32	TRANSFORMER ASSY, FLYBACK	
59	*A-1296-127-A	A BOARD, COMPLETE		71	*1-555-111-61	CABLE, PIN	
60	*4-380-917-01	COVER (A), AC SWITCH		72	▲ 1-536-683-00	CONNECTOR, COAXIAL ANTENNA	
61	▲ 1-554-967-12	SWITCH, PUSH (AC POWER)(1 KEY)		73	*4-346-339-00	HOLDER, HV CABLE	

NOTE :

- 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.

- MF : μF , PF : $\mu\mu F$

- All resistors are in ohms
- F : nonflammable

• MMH : mH, UH : μ H

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

- 8 -

B

o. Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
1-106-176-00	MYLAR	0.0015MF 10% 50V	C853	1-102-038-00	CERAMIC	0.001MF 500V
1-108-837-00	MYLAR	0.01MF 10% 50V	C854	1-124-120-11	ELECT	220MF 20% 25V
1-108-841-91	MYLAR	0.022MF 10% 50V	C855	1-124-907-00	ELECT	10MF 20% 50V
1-124-903-00	ELECT	1MF 20% 50V	C856	1-102-038-00	CERAMIC	0.001MF 500V
1-124-903-00	ELECT	1MF 20% 50V	C857	1-108-425-00	MYLAR	0.022MF 10% 200V
1-108-841-91	MYLAR	0.022MF 10% 50V	C858	1-101-004-00	CERAMIC	0.01MF 50V
1-106-180-00	MYLAR	0.0022MF 5% 100V	C859	1-124-445-00	ELECT	100MF 20% 16V
1-129-794-00	FILM	0.0033MF 2% 100V	C860	1-102-228-00	CERAMIC	470PF 10% 500V
1-124-903-00	ELECT	1MF 20% 50V	C861	1-101-880-00	CERAMIC	47PF 5% 50V
1-123-321-00	ELECT	220MF 20% 16V	C863	1-124-901-00	ELECT	1000MF 20% 35V
1-106-212-00	MYLAR	0.047MF 5% 100V	TRIMMER			
1-124-896-00	ELECT	33MF 20% 16V	CV301	1-141-181-11	CAP, TRIMMER	
1-131-371-00	TANTALUM	10MF 10% 16V	DIODE			
1-136-173-00	FILM	0.47MF 5% 50V	D001	8-719-936-66	DIODE SLH-34MC3	
1-124-903-00	ELECT	1MF 20% 50V	*4-376-521-01	HOLDER (C), LED; D001		
1-108-837-00	MYLAR	0.01MF 10% 50V	D002	8-719-936-66	DIODE SLH-34MC3	
1-124-903-00	ELECT	1MF 20% 50V	*4-376-521-01	HOLDER (C), LED; D002		
1-108-593-00	MYLAR	0.039MF 10% 50V	D003	8-719-936-66	DIODE SLH-34MC3	
1-124-119-00	ELECT	330MF 20% 16V	*4-376-521-01	HOLDER (C), LED; D003		
1-102-973-00	CERAMIC	100PF 5% 50V	D004	8-719-936-66	DIODE SLH-34MC3	
1-102-112-00	CERAMIC	330PF 10% 50V	*4-376-521-01	HOLDER (C), LED; D004		
1-102-965-00	CERAMIC	39PF 5% 500V	D005	8-719-936-66	DIODE SLH-34MC3	
1-102-244-00	CERAMIC	220PF 10% 500V	*4-376-521-01	HOLDER (C), LED; D005		
1-102-244-00	CERAMIC	220PF 10% 500V	D006	8-719-936-66	DIODE SLH-34MC3	
1-124-122-11	ELECT	100MF 20% 50V	*4-376-521-01	HOLDER (C), LED; D006		
1-106-196-00	MYLAR	0.01MF 10% 100V	D007	8-719-936-66	DIODE SLH-34MC3	
1-124-117-00	ELECT	680MF 10% 25V	*4-376-521-01	HOLDER (C), LED; D007		
1-108-622-91	MYLAR	0.0047MF 10% 100V	D008	8-719-936-66	DIODE SLH-34MC3	
1-161-271-00	CERAMIC	100PF 5% 50V	*4-376-517-01	HOLDER (A), LED; D016		
1-123-024-00	ELECT	33MF 10% 160V	D009	8-719-911-19	DIODE 1SS119	
1-102-114-00	CERAMIC	470PF 10% 50V	D010	8-719-911-19	DIODE 1SS119	
1-106-367-00	MYLAR	0.01MF 10% 200V	D011	8-719-911-19	DIODE 1SS119	
1-102-038-00	CERAMIC	0.001MF 10% 500V	D012	8-719-911-19	DIODE 1SS119	
1-102-244-00	CERAMIC	220PF 10% 500V	D013	8-719-911-19	DIODE 1SS119	
1-102-212-00	CERAMIC	820PF 10% 500V	D014	8-719-109-90	DIODE RD5.6ES-B3	
1-136-236-11	FILM	0.47MF 5% 400V	D015	8-719-109-71	DIODE RD3.9ES-B2	
1-106-367-00	MYLAR	0.01MF 10% 200V	D016	8-719-901-96	DIODE SLP161B	
1-162-116-00	CERAMIC	680PF 10% 2KV				
1-162-116-00	CERAMIC	0.015MF 10% 100V				
1-106-200-00	MYLAR	680PF 10% 2KV				
1-162-116-00	CERAMIC	680PF 10% 2KV				
1-136-092-11	FILM	0.0072MF 3% 2KV	D019	8-719-911-19	DIODE 1SS119	
1-101-880-00	CERAMIC	47PF 5% 50V	D021	8-719-911-19	DIODE 1SS119	
1-102-112-00	CERAMIC	330PF 10% 50V	D022	8-719-110-72	DIODE RD30ES-B4	
1-162-115-51	CERAMIC	330PF 10% 2KV	D024	8-719-911-19	DIODE 1SS119	
1-108-630-91	MYLAR	0.022MF 10% 100V	D025	8-719-911-19	DIODE 1SS119	
1-102-228-00	CERAMIC	470PF 10% 500V	D026	8-719-911-19	DIODE 1SS119	
1-102-002-00	CERAMIC	680PF 10% 500V	D027	8-719-911-19	DIODE 1SS119	
1-124-002-11	ELECT	1MF 20% 50V	D028	8-719-911-19	DIODE 1SS119	
1-124-903-00	ELECT	1MF 20% 50V	D029	8-719-911-19	DIODE 1SS119	
1-106-200-00	MYLAR	0.015MF 10% 100V	D030	8-719-911-19	DIODE 1SS119	
1-136-060-00	FILM	0.047MF 3% 250V	D031	8-719-911-19	DIODE 1SS119	
1-123-948-00	ELECT	22MF 20% 250V	D032	8-719-911-19	DIODE 1SS119	
1-162-114-00	CERAMIC	0.0047MF 2KV	D033	8-719-911-19	DIODE 1SS119	

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

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D034	8-719-911-19	DIODE 1SS119				<u>COIL</u>	
D035	8-719-911-19	DIODE 1SS119					
D036	8-719-911-19	DIODE 1SS119		L001	1-408-409-00	MICRO INDUCTOR 10UH	
D037	8-719-812-31	DIODE TLR123		L002	1-408-698-00	MICRO INDUCTOR 8.2UH	
	*4-376-521-01	HOLDER (C), LED; D037		L302	1-408-244-00	MICRO INDUCTOR 18MMH	
				L303	1-408-415-00	MICRO INDUCTOR 33UH	
				L304	1-408-409-00	MICRO INDUCTOR 10UH	
D038	8-719-911-19	DIODE 1SS119					
D040	8-719-911-19	DIODE 1SS119		L305	1-408-300-00	MICRO INDUCTOR 6.8UH	
D301	8-719-911-19	DIODE 1SS119		L401	1-408-408-00	MICRO INDUCTOR 8.2UH	
D302	8-719-911-19	DIODE 1SS119		L402	1-408-247-00	MICRO INDUCTOR 33MMH	
D303	8-719-911-19	DIODE 1SS119		L404	1-408-415-00	MICRO INDUCTOR 33UH	
				L551	1-408-698-00	MICRO INDUCTOR 8.2UH	
D306	8-719-911-19	DIODE 1SS119					
D307	8-719-911-19	DIODE 1SS119		L801	1-407-556-00	CHOKE COIL	
D308	8-719-911-19	DIODE 1SS119		L803	1-407-365-00	COIL, CHOKE	
D404	8-719-911-19	DIODE 1SS119		L804	1-421-013-00	COIL, (HOLIZONTAL CHOKE) 25UH	
D405	8-719-110-19	DIODE RD11ES-B		L805	1-459-496-00	COIL, FERRITE (HLC)	
				L806	1-459-315-00	COIL, VAR, FERRITE (HWC)	
D406	8-719-108-12	DIODE RD9.1EW					
D407	8-719-108-12	DIODE RD9.1EW		L821	1-459-105-21	COIL(WITH CORE)	
D408	8-719-110-41	DIODE RD15ESB2		L822	1-407-494-00	MICRO INDUCTOR 1.5MMH	
D409	8-719-911-19	DIODE 1SS119		L851	1-408-240-00	MICRO INDUCTOR 6.8MMH	
D501	8-719-911-19	DIODE 1SS119				<u>TRANSISTOR</u>	
D502	8-719-911-19	DIODE 1SS119		Q001	8-729-178-54	TRANSISTOR 2SC2785	
D504	8-719-911-19	DIODE 1SS119		Q002	8-729-117-54	TRANSISTOR 2SA1175	
D551	8-719-200-02	DIODE 10E2		Q003	8-729-117-54	TRANSISTOR 2SA1175	
D821	8-719-200-02	DIODE 10E2		Q004	8-729-117-54	TRANSISTOR 2SA1175	
D822	8-719-200-02	DIODE 10E2		Q005	8-729-603-50	TRANSISTOR 2SC403SP	
D823	8-719-200-02	DIODE 10E2		Q006	8-729-900-36	TRANSISTOR DTC124ES	
D824	8-719-931-05	DIODE EQ801-05		Q008	8-729-900-36	TRANSISTOR DTC124ES	
D851	8-719-901-93	DIODE V19E		Q012	8-729-900-36	TRANSISTOR DTC124ES	
D852	8-719-300-65	DIODE E51F		Q014	8-729-900-36	TRANSISTOR DTC124ES	
D853	8-719-901-93	DIODE V19E		Q015	8-729-117-54	TRANSISTOR 2SA1175	
D854	8-719-200-02	DIODE 10E2		Q016	8-729-900-63	TRANSISTOR DTA124ES	
D855	8-719-901-93	DIODE V19E		Q017	8-729-178-54	TRANSISTOR 2SC2785	
D856	8-719-110-35	DIODE RD13ES-B1		Q018	8-729-900-63	TRANSISTOR DTA124ES	
				Q019	8-729-117-54	TRANSISTOR 2SA1175	
				Q020	8-729-117-54	TRANSISTOR 2SA1175	
				Q021	8-729-178-54	TRANSISTOR 2SC2785	
				Q022	8-729-900-63	TRANSISTOR DTA124ES	
				Q023	8-729-900-36	TRANSISTOR DTC124ES	
				Q024	8-729-900-63	TRANSISTOR DTA124ES	
				Q025	8-729-900-36	TRANSISTOR DTC124ES	
				Q301	8-729-178-54	TRANSISTOR 2SC2785	
				Q302	8-729-117-54	TRANSISTOR 2SA1175	
				Q305	8-729-178-54	TRANSISTOR 2SC2785	
				Q306	8-729-117-54	TRANSISTOR 2SA1175	
				Q307	8-729-900-83	TRANSISTOR DTC124XS	
				Q310	8-729-178-54	TRANSISTOR 2SC2785	
				Q402	8-729-117-54	TRANSISTOR 2SA1175	
				Q403	8-729-178-54	TRANSISTOR 2SC2785	
				Q404	8-729-178-54	TRANSISTOR 2SC2785	
				Q405	8-729-178-54	TRANSISTOR 2SC2785	
				Q406	8-729-178-54	TRANSISTOR 2SC2785	
<u>DELAY LINE</u>							
DL 301	1-415-122-31	DELAY LINE, 1H (PAL)					
				<u>IC</u>			
IC001	8-759-603-38	IC CX531-513P					
IC002	8-759-602-52	IC M58658P					
IC004	8-759-157-40	IC UPC574J					
IC301	8-752-030-86	IC CXA1001AP					
IC402	8-752-006-10	IC CX20061					
IC403	8-752-006-10	IC CX20061					
IC404	8-752-010-00	IC CX20100					
IC501	8-759-100-60	IC UPC1377C					
IC551	8-759-801-98	IC LA7830					
				<u>JACK</u>			
J401	1-561-534-00	SOCKET 21P					

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q409	8-729-117-54	TRANSISTOR 2SA1175		R053	1-249-441-11	CARBON	100K 5% 1/6W
Q410	8-729-178-54	TRANSISTOR 2SC2785		R054	1-249-441-11	CARBON	100K 5% 1/6W
Q412	8-729-178-54	TRANSISTOR 2SC2785		R055	1-249-441-11	CARBON	100K 5% 1/6W
Q414	8-729-178-54	TRANSISTOR 2SC2785		R056	1-247-851-00	CARBON	6.8K 5% 1/6W
Q419	8-729-178-54	TRANSISTOR 2SC2785		R057	1-249-441-11	CARBON	100K 5% 1/6W
Q801	8-729-168-82	TRANSISTOR 2SC2688-L		R058	1-249-441-11	CARBON	100K 5% 1/6W
Q802	8-729-206-04	TRANSISTOR 2SD1554-LB		R059	1-249-425-11	CARBON	4.7K 5% 1/6W
Q804	8-729-178-54	TRANSISTOR 2SC2785		R060	1-249-429-11	CARBON	10K 5% 1/6W
Q821	8-729-378-91	TRANSISTOR 2SD789		R061	1-247-718-11	CARBON	2.7K 5% 1/4W
Q851	8-729-313-42	TRANSISTOR 2SD1134		R062	1-249-425-11	CARBON	4.7K 5% 1/6W
*4-323-833-00 HEAT SINK, PIN OUT; Q851				R063	1-247-721-11	CARBON	4.7K 5% 1/4W
RESISTOR				R064	1-249-469-11	CARBON	100K 5% 1/4W
R001	1-247-706-11	CARBON	330 5% 1/4W	R065	1-249-441-11	CARBON	100K 5% 1/6W
R002	1-247-703-11	CARBON	180 5% 1/4W	R066	1-249-441-11	CARBON	100K 5% 1/6W
R003	1-249-405-11	CARBON	100 5% 1/6W	R067	1-249-441-11	CARBON	100K 5% 1/6W
R004	1-247-719-11	CARBON	3.3K 5% 1/4W	R068	1-249-421-11	CARBON	2.2K 5% 1/6W
R005	1-247-843-00	CARBON	3.3K 5% 1/6W	R069	1-249-419-11	CARBON	1.5K 5% 1/6W
R006	1-249-429-11	CARBON	10K 5% 1/6W	R301	1-247-823-00	CARBON	470 5% 1/6W
R007	1-249-434-11	CARBON	27K 5% 1/6W	R302	1-249-433-11	CARBON	22K 5% 1/6W
R008	1-249-415-11	CARBON	680 5% 1/6W	R304	1-247-167-00	CARBON	33K 5% 1/4W
R009	1-247-815-00	CARBON	220 5% 1/6W	R306	1-249-419-11	CARBON	1.5K 5% 1/6W
R010	1-215-877-11	METAL OXIDE	22K 5% 1W F	R307	1-247-725-11	CARBON	10K 5% 1/4W
R011	1-249-433-11	CARBON	22K 5% 1/6W	R308	1-249-429-11	CARBON	10K 5% 1/6W
R012	1-249-429-11	CARBON	10K 5% 1/6W	R309	1-247-851-00	CARBON	6.8K 5% 1/6W
R013	1-249-429-11	CARBON	10K 5% 1/6W	R310	1-247-893-00	CARBON	390K 5% 1/6W
R015	1-247-843-00	CARBON	3.3K 5% 1/6W	R311	1-247-903-00	CARBON	1M 5% 1/6W
R016	1-247-843-00	CARBON	3.3K 5% 1/6W	R312	1-249-435-11	CARBON	33K 5% 1/6W
R017	1-247-843-00	CARBON	3.3K 5% 1/6W	R313	1-249-432-11	CARBON	18K 5% 1/6W
R018	1-247-719-11	CARBON	3.3K 5% 1/4W	R314	1-246-541-00	CARBON	680K 5% 1/4W
R019	1-247-704-11	CARBON	220 5% 1/6W	R315	1-247-883-00	CARBON	150K 5% 1/6W
R020	1-247-815-00	CARBON	220 5% 1/4W	R316	1-249-441-11	CARBON	100K 5% 1/6W
R021	1-247-704-11	CARBON	220 5% 1/4W	R317	1-249-441-11	CARBON	100K 5% 1/6W
R022	1-247-815-00	CARBON	220 5% 1/6W	R318	1-249-441-11	CARBON	100K 5% 1/6W
R023	1-247-815-00	CARBON	220 5% 1/6W	R319	1-247-885-00	CARBON	180K 5% 1/6W
R024	1-247-815-00	CARBON	220 5% 1/6W	R320	1-247-725-11	CARBON	10K 5% 1/4W
R025	1-249-433-11	CARBON	22K 5% 1/6W	R321	1-247-875-00	CARBON	68K 5% 1/6W
R036	1-247-823-00	CARBON	470 5% 1/6W	R322	1-249-415-11	CARBON	680 5% 1/6W
R037	1-247-823-00	CARBON	470 5% 1/6W	R325	1-247-851-00	CARBON	6.8K 5% 1/6W
R038	1-247-823-00	CARBON	22K 5% 1/6W	R326	1-247-849-00	CARBON	5.6K 5% 1/6W
R039	1-249-433-11	CARBON	8.2K 5% 1/4W	R327	1-247-145-00	CARBON	3.9K 5% 1/4W
R041	1-247-153-00	CARBON	100K 5% 1/6W	R328	1-247-869-00	CARBON	39K 5% 1/6W
R042	1-249-441-11	CARBON	100K 5% 1/6W	R329	1-247-883-00	CARBON	150K 5% 1/6W
R043	1-249-433-11	CARBON	22K 5% 1/6W	R333	1-247-821-00	CARBON	390 5% 1/6W
R044	1-247-725-11	CARBON	10K 5% 1/4W	R334	1-249-417-11	CARBON	1K 5% 1/6W
R045	1-247-719-11	CARBON	3.3K 5% 1/4W	R339	1-247-823-00	CARBON	470 5% 1/6W
R046	1-249-434-11	CARBON	27K 5% 1/6W	R340	1-247-869-00	CARBON	39K 5% 1/6W
R047	1-249-429-11	CARBON	10K 5% 1/6W	R341	1-247-169-00	CARBON	39K 5% 1/4W
R048	1-249-425-11	CARBON	4.7K 5% 1/6W	R342	1-247-859-00	CARBON	15K 5% 1/6W
R049	1-249-441-11	CARBON	100K 5% 1/6W	R343	1-247-853-00	CARBON	8.2K 5% 1/6W
R050	1-247-725-11	CARBON	10K 5% 1/4W	R344	1-247-875-00	CARBON	68K 5% 1/6W
R051	1-249-441-11	CARBON	100K 5% 1/6W	R345	1-247-875-00	CARBON	68K 5% 1/6W
R052	1-247-851-00	CARBON	6.8K 5% 1/6W	R346	1-249-429-11	CARBON	10K 5% 1/6W
				R347	1-249-421-11	CARBON	2.2K 5% 1/6W

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R349	1-247-885-00	CARBON	180K 5% 1/6W	R460	1-247-815-00	CARBON	220 5% 1/6W
R350	1-249-433-11	CARBON	22K 5% 1/6W	R461	1-247-815-00	CARBON	220 5% 1/6W
R351	1-247-873-00	CARBON	56K 5% 1/6W	R462	1-247-815-00	CARBON	220 5% 1/6W
R352	1-247-167-00	CARBON	33K 5% 1/4W	R463	1-247-804-00	CARBON	75 5% 1/6W
R353	1-249-417-11	CARBON	1K 5% 1/6W	R464	1-247-804-00	CARBON	75 5% 1/6W
R355	1-247-859-00	CARBON	15K 5% 1/6W	R465	1-247-804-00	CARBON	75 5% 1/6W
R362	1-249-440-11	CARBON	82K 5% 1/6W	R466	1-247-804-00	CARBON	75 5% 1/6W
R366	1-247-167-00	CARBON	33K 5% 1/4W	R467	1-247-104-00	CARBON	75 5% 1/4W
R370	1-247-851-00	CARBON	6.8K 5% 1/6W	R468	1-247-813-00	CARBON	180 5% 1/6W
R371	1-247-891-00	CARBON	330K 5% 1/6W	R469	1-247-813-00	CARBON	180 5% 1/6W
R381	1-247-163-00	CARBON	22K 5% 1/4W	R470	1-247-713-11	CARBON	1K 5% 1/4W
R382	1-249-429-11	CARBON	10K 5% 1/6W	R471	1-249-441-11	CARBON	100K 5% 1/6W
R383	1-247-895-00	CARBON	470K 5% 1/6W	R472	1-249-429-11	CARBON	10K 5% 1/6W
R384	1-249-419-11	CARBON	1.5K 5% 1/6W	R473	1-247-815-00	CARBON	220 5% 1/6W
R401	1-247-823-00	CARBON	470 5% 1/6W	R474	1-247-704-11	CARBON	220 5% 1/4W
R402	1-247-881-00	CARBON	120K 5% 1/6W	R478	1-247-815-00	CARBON	220 5% 1/6W
R403	1-247-903-00	CARBON	1M 5% 1/6W	R479	1-249-405-11	CARBON	100 5% 1/6W
R404	1-249-429-11	CARBON	10K 5% 1/6W	R480	1-249-405-11	CARBON	100 5% 1/6W
R405	1-247-843-00	CARBON	3.3K 5% 1/6W	R481	1-249-405-11	CARBON	100 5% 1/6W
R406	1-247-849-00	CARBON	5.6K 5% 1/6W	R482	1-249-405-11	CARBON	100 5% 1/6W
R407	1-249-429-11	CARBON	10K 5% 1/6W	R483	1-249-405-11	CARBON	100 5% 1/6W
R409	1-247-897-00	CARBON	560K 5% 1/6W	R484	1-247-700-11	CARBON	100 5% 1/4W
R410	1-249-433-11	CARBON	22K 5% 1/6W	R485	1-249-422-11	CARBON	2.7K 5% 1/6W
R411	1-216-430-11	METAL OXIDE	390 5% 1W	R486	1-249-440-11	CARBON	82K 5% 1/6W
R412	1-249-421-11	CARBON	2.2K 5% 1/6W	R487	1-247-875-00	CARBON	68K 5% 1/6W
R413	1-247-853-00	CARBON	8.2K 5% 1/6W	R488	1-246-541-00	CARBON	680K 5% 1/4W
R414	1-247-859-00	CARBON	15K 5% 1/6W	R489	1-247-885-00	CARBON	180K 5% 1/6W
R415	1-249-417-11	CARBON	1K 5% 1/6W	R491	1-247-843-00	CARBON	3.3K 5% 1/6W
R416	1-247-713-11	CARBON	1K 5% 1/4W	R492	1-247-843-00	CARBON	3.3K 5% 1/6W
R419	1-249-419-11	CARBON	1.5K 5% 1/6W	R493	1-247-843-00	CARBON	3.3K 5% 1/6W
R420	1-247-815-00	CARBON	220 5% 1/6W	R501	1-247-819-00	CARBON	330 5% 1/6W
R421	1-249-421-11	CARBON	2.2K 5% 1/6W	R502	1-247-705-11	CARBON	270 5% 1/4W
R422	1-247-859-00	CARBON	15K 5% 1/6W	R503	1-249-427-11	CARBON	6.8K 5% 1/6W
R423	1-249-429-11	CARBON	10K 5% 1/6W	R504	1-249-440-11	CARBON	82K 5% 1/6W
R424	1-249-437-11	CARBON	47K 5% 1/6W	R505	1-247-843-00	CARBON	3.3K 5% 1/6W
R425	1-247-889-00	CARBON	270K 5% 1/6W	R506	1-247-868-00	CARBON	36K 5% 1/6W
R426	1-249-441-11	CARBON	100K 5% 1/6W	R507	1-249-459-11	CARBON	12K 5% 1/4W
R429	1-247-823-00	CARBON	470 5% 1/6W	R511	1-249-440-11	CARBON	82K 5% 1/6W
R430	1-247-823-00	CARBON	470 5% 1/6W	R512	1-216-440-00	METAL OXIDE	18K 5% 1W
R432	1-247-135-00	CARBON	1.5K 5% 1/4W	R513	1-247-843-00	CARBON	3.3K 5% 1/6W
R438	1-247-163-00	CARBON	22K 5% 1/4W	R514	1-215-460-00	METAL	43K 1% 1/6W
R444	1-247-851-00	CARBON	6.8K 5% 1/6W	R515	1-247-721-11	CARBON	4.7K 5% 1/4W
R445	1-249-429-11	CARBON	10K 5% 1/6W	R517	1-247-859-00	CARBON	15K 5% 1/6W
R446	1-249-429-11	CARBON	10K 5% 1/6W	R519	1-249-425-11	CARBON	4.7K 5% 1/6W
R447	1-247-851-00	CARBON	6.8K 5% 1/6W	R522	1-215-463-00	METAL	56K 1% 1/6W
R448	1-247-713-11	CARBON	1K 5% 1/4W	R524	1-214-783-00	METAL	180K 1% 1/4W
R449	1-247-708-11	CARBON	470 5% 1/4W	R525	1-215-455-00	METAL	27K 1% 1/6W
R450	1-249-417-11	CARBON	1K 5% 1/6W	R526	1-249-435-11	CARBON	33K 5% 1/6W
R451	1-247-873-00	CARBON	56K 5% 1/6W	R527	1-249-422-11	CARBON	2.7K 5% 1/6W
R453	1-249-433-11	CARBON	22K 5% 1/6W	R528	1-247-845-00	CARBON	3.9K 5% 1/6W
R454	1-249-460-11	CARBON	15K 5% 1/4W	R529	1-215-461-00	METAL	47K 1% 1/6W
R455	1-249-460-11	CARBON	15K 5% 1/4W	R530	1-215-373-31	METAL	10 1% 1/6W
R456	1-249-429-11	CARBON	10K 5% 1/6W	R532	1-247-711-11	CARBON	680 5% 1/4W

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

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

F A C

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>VARIABLE RESISTOR</u>				<u>IF BLOCK</u>			
RV601	1-230-231-11	RES, ADJ, CERAMIC CARBON 2.2K		IF201	1-464-583-11	IF BLOCK (IFB-395)	
<u>TRANSFORMER</u>				<u>COIL</u>			
T601	1-421-582-11	TRANSFORMER, FERRITE		L152	1-408-418-00	MICRO INDUCTOR 56UH	
T602	1-448-575-11	S.R.T (CONVERTER TRANSFORMER)		L201	1-408-397-00	MICRO INDUCTOR 1UH	
T603	1-446-194-00	TRANSFORMER, CHOPPER DRIVE		<u>TRANSISTOR</u>			
<u>THERMISTOR</u>				Q157	8-729-178-54	TRANSISTOR 2SC2785	
THP601	1-806-165-11	THERMISTOR (POSITIVE)		Q201	8-729-212-02	TRANSISTOR 2SC2120-Y	
*****				Q202	8-729-117-54	TRANSISTOR 2SA1175	
*A-1296-127-A A BOARD, COMPLETE				Q251	8-729-378-84	TRANSISTOR 2SD788	
*****				<u>RESISTOR</u>			
<u>CONNECTOR</u>				R152	1-249-433-11	CARBON 22K 5% 1/6W	
A4	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R154	1-249-429-11	CARBON 10K 5% 1/6W	
A5	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)		R155	1-249-437-11	CARBON 47K 5% 1/6W	
A6	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R156	1-247-167-00	CARBON 33K 5% 1/4W	
<u>CAPACITOR</u>				R157	1-247-891-00	CARBON 330K 5% 1/6W	
C151	1-106-220-00	MYLAR 0.1MF 10% 100V		R158	1-247-897-00	CARBON 560K 5% 1/6W	
C152	1-124-902-00	ELECT 0.47MF 20% 50V		R159	1-247-708-11	CARBON 470 5% 1/4W	
C153	1-123-617-00	ELECT 10MF 20% 16V		R201	1-247-713-11	CARBON 1K 5% 1/4W	
04	1-249-425-11	CARBON 4.7K 5% 1/6W		R202	1-249-435-11	CARBON 33K 5% 1/6W	
05	1-249-433-11	CARBON 22K 5% 1/6W		R203	1-249-435-11	CARBON 33K 5% 1/6W	
06	1-249-417-11	CARBON 1K 5% 1/6W		C156	1-124-445-00	ELECT 100MF 20% 16V	
07	1-249-417-11	CARBON 1K 5% 1/6W		C158	1-108-849-00	MYLAR 0.1MF 10% 50V	
08	1-249-417-11	CARBON 1K 5% 1/6W		C159	1-108-599-00	MYLAR 0.068MF 10% 50V	
09	1-249-405-11	CARBON 100 5% 1/6W		C160	1-124-896-00	ELECT 33MF 20% 16V	
20	1-249-393-11	CARBON 10 5% 1/6W F		C201	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
51	1-247-819-00	CARBON 330 5% 1/6W		C202	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
52	1-249-433-11	CARBON 22K 5% 1/6W		C203	1-124-903-00	ELECT 1MF 20% 50V	
53	1-249-421-11	CARBON 2.2K 5% 1/6W		C204	1-124-896-00	ELECT 33MF 20% 16V	
54	1-249-447-11	CARBON 1 5% 1/4W		C205	1-123-321-00	ELECT 220MF 20% 16V	
55	1-217-430-00	FUSIBLE 4.7 5% 1/2W F		C206	1-123-332-00	ELECT 47MF 20% 16V	
59	1-247-163-00	CARBON 22K 5% 1/4W		C251	1-124-555-00	ELECT 1000MF 20% 16V	
60	1-247-713-11	CARBON 1K 5% 1/4W		C252	1-102-119-00	CERAMIC 0.0015MF 10% 50V	
<u>TUNER</u>				C253	1-124-904-00	ELECT 2.2MF 20% 50V	
151	1-463-593-11	TUNER, ET (BT-882A)		C254	1-123-332-00	ELECT 47MF 20% 16V	
*****				C255	1-124-475-11	ELECT 470MF 20% 16V	
*A-1330-685-A C BOARD, COMPLETE				C256	1-108-849-00	MYLAR 0.1MF 10% 50V	
*****				C259	1-124-904-00	ELECT 2.2MF 20% 50V	
1	526-819-11	SOCKET, CRT		C260	1-124-445-00	ELECT 100MF 20% 16V	
4	374-912-01	COVER (MAIN), CV VOL		C261	1-102-074-00	CERAMIC 0.001MF 10% 50V	
4	374-913-01	COVER (REAR LID), CV VOL		<u>DIODE</u>			
<u>CONNECTOR</u>				D201	8-719-110-17	DIODE RD10ES-B2	
1	506-371-00	2P PLUG (L)		D202	8-719-109-60	DIODE RD2.7ES-B2	
				<u>IC</u>			
				IC251	8-759-101-77	IC UPC1241H	

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

RV701	1-228-723-00	RES, ADJ,	CERAMIC CARBON	4.7K
RV702	1-228-721-00	RES, ADJ,	CERAMIC CARBON	2.2K
RV703	1-228-723-00	RES, ADJ,	CERAMIC CARBON	4.7K
RV704	1-228-721-00	RES, ADJ,	CERAMIC CARBON	2.2K
RV705	1-228-723-00	RES, ADJ,	CERAMIC CARBON	4.7K

*4-376-592-01 INDIVIDUAL CARTON
4-482-081-91 MANUAL, INSTRUCTION

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SONY TRINITRON COLOUR TV KV-1440UB

UK Model








Chassis No. SCC-767A-A


XE-5 CHASSIS

SAFETY-RELATED COMPONENT WARNING !!

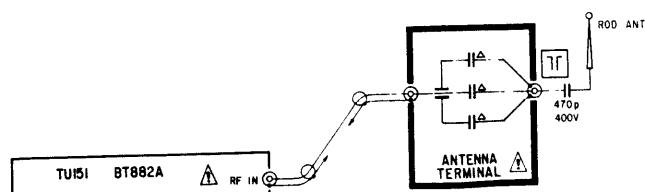
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Note:








- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. k: 1000 Ω ; M: 1000k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
-  : adjustment for repair.
- All voltage are in V.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : signal path.


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

SCHEMATIC DIAGRAM

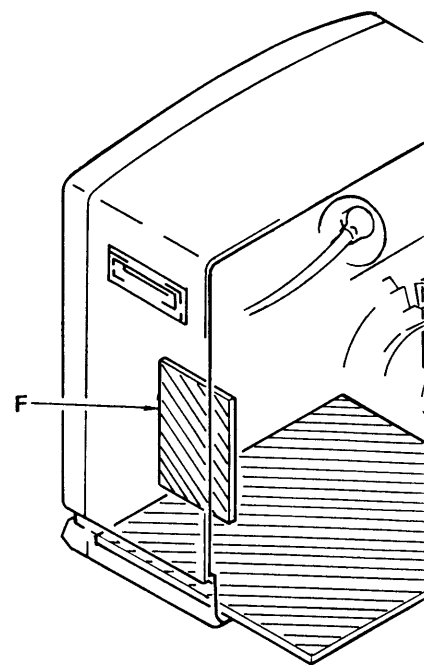


Note:

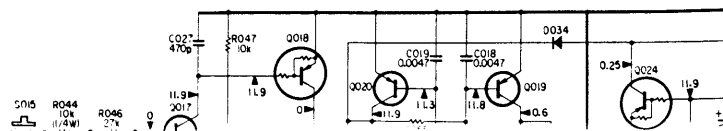
- All capacitors are in μF unless otherwise noted, pF: μF
- 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted.
k: 1000 Ω ; M: 1000k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
-  : adjustment for repair.
- All voltage are in V.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : signal path.

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

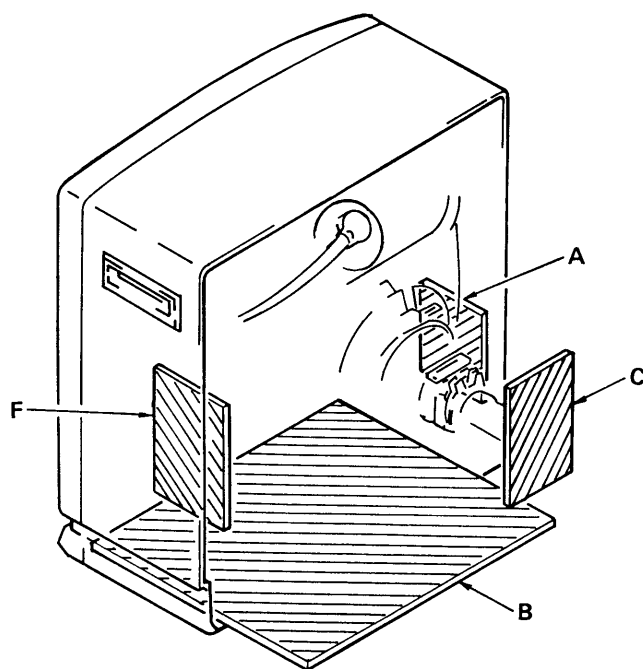
CIRCUIT BOARDS LOCA



Q017 2SC2785TP [TV/AV-1] Q018 DTA124ES [TV/AV-2] Q020 2SA1175TP [TV/AV-3] Q019 2SA1175TP [TV/AV-4]

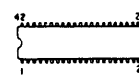


CIRCUIT BOARDS LOCATION



SEMICONDUCTORS

CXA1001AP

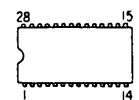


(Top view)

CX20061

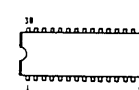


CX20100



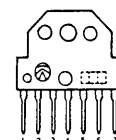
(Top view)

CX531-513P

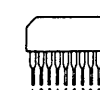


(Top view)

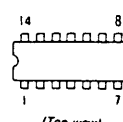
LA7830



LA7920

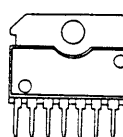


M58658P
μPC1394C

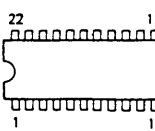


(Top view)

μPC1241H

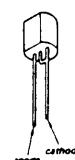


μPC1377C

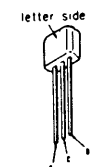


(Top view)

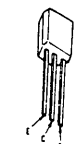
μPC574J



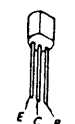
2SA1175
2SC2785



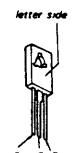
2SC403SP
DTA124ES
DTC124ES
DTC124XS
DTC144ES



2SC2120
2SD788
2SD789



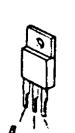
2SC2611
2SC2688



2SC2958



2SD1134



2SD1497-02



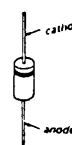
2SD1554-LB



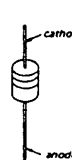
2SK105A



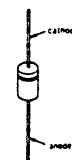
10E3
ES1F
GP08D
RGP10G
RD10E-T2B2
RD10ES-B2
RD11ES-T2B
RD13ES-B1
RD15ES-T2B
RD3.9ES-B1
RD30ES-E2
RD5.6ES-B3
RD6.2ES-B2
RD9.1EW



1SS119



EQB01-05
ERC25-06S
RH-1Z



DTA124ES
TV/AV-2

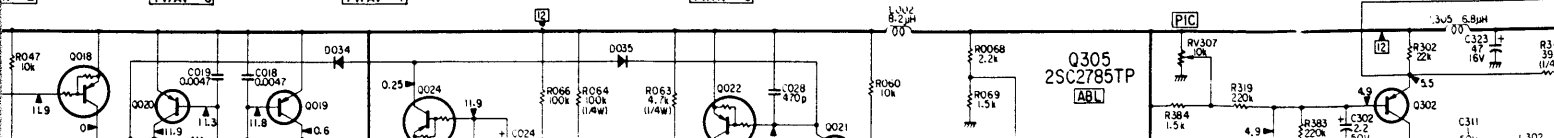
Q020 2SA1175TP
TV/AV-3

Q019 2SA1175TP
TV/AV-4

Q022 DTA124ES
TV/AV-6

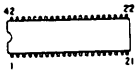
Q302 2SA1175TP
PIC CONT

D301 1SS119
H.CLAMP



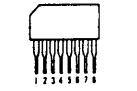
SEMICONDUCTORS

CXA1001AP

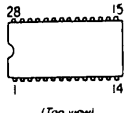


(Top view)

CX20061

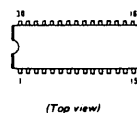


CX20100



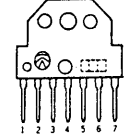
(Top view)

CX531-513P

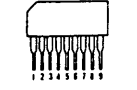


(Top view)

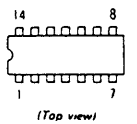
LA7830



LA7920

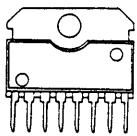


M58658P
μPC1394C

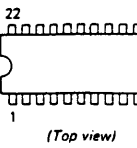


(Top view)

μPC1241H

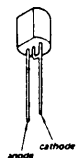


μPC1377C




(Top view)

μPC574J



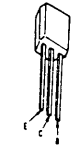
anode
cathode

2SA1175
2SC2785



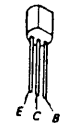
letter side

2SC403SP
DTA124ES
DTC124ES
DTC124XS
DTC144ES



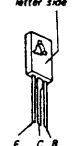
letter side

2SC2120
2SD788
2SD789




E C B

2SC2611
2SC2688



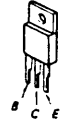
letter side

2SC2958



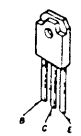
E C B

2SD1134



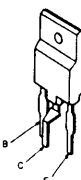
B C E

2SD1497-02




B C E

2SD1554-LB



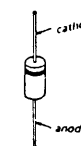
B C E

2SK105A



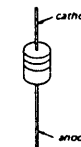
D G S

10E3
ES1F
GP08D
RGP10G
RD10E-T2B2
RD10ES-B2
RD11ES-T2B
RD13ES-B1
RD15ES-T2B
RD3.9ES-B1
RD30ES-E2
RD5.6ES-B3
RD6.2ES-B2
RD9.1EW



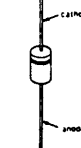
cathode
anode

1SS119



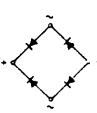
cathode
anode

EQB01-05
ERC25-06S
RH-1Z



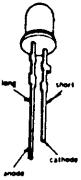
cathode
anode

S3WB60Z



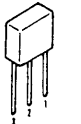
Marking

SLH34MC3



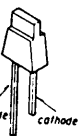
base
emitter
cathode

SLP161B



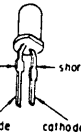
1 2

SLP261B




anode
cathode

TLR123

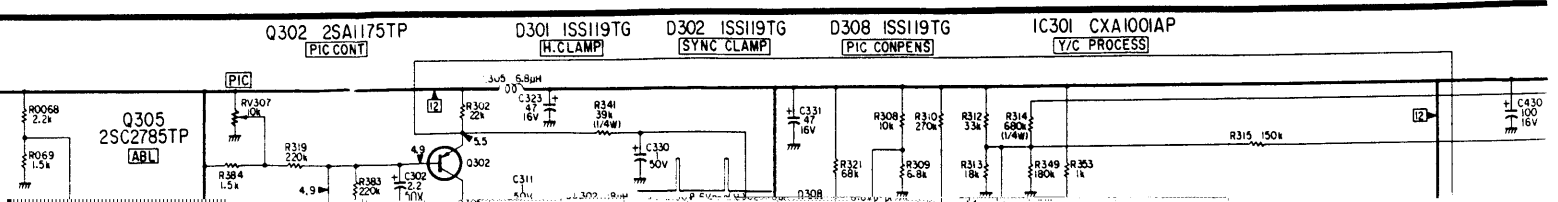


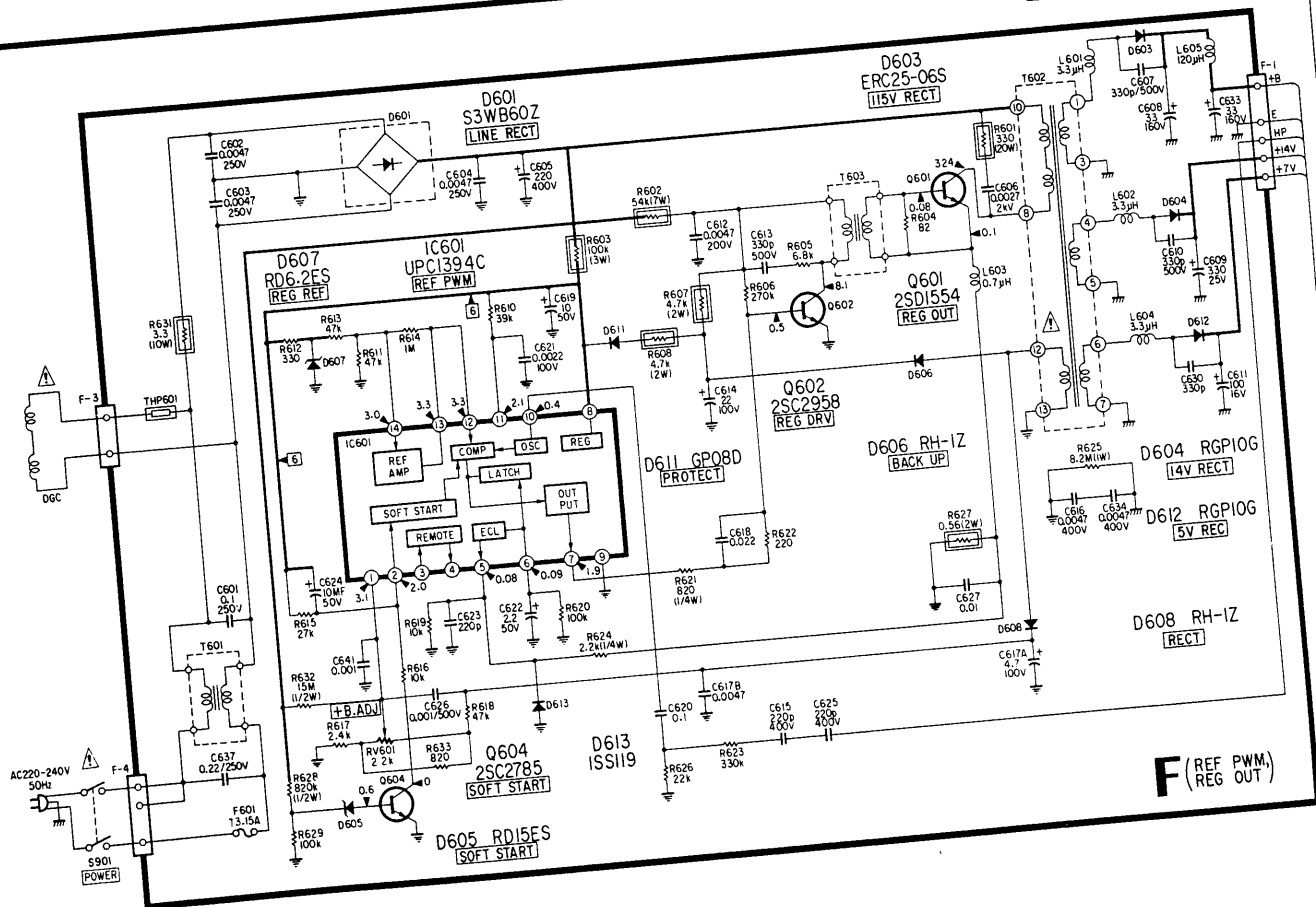
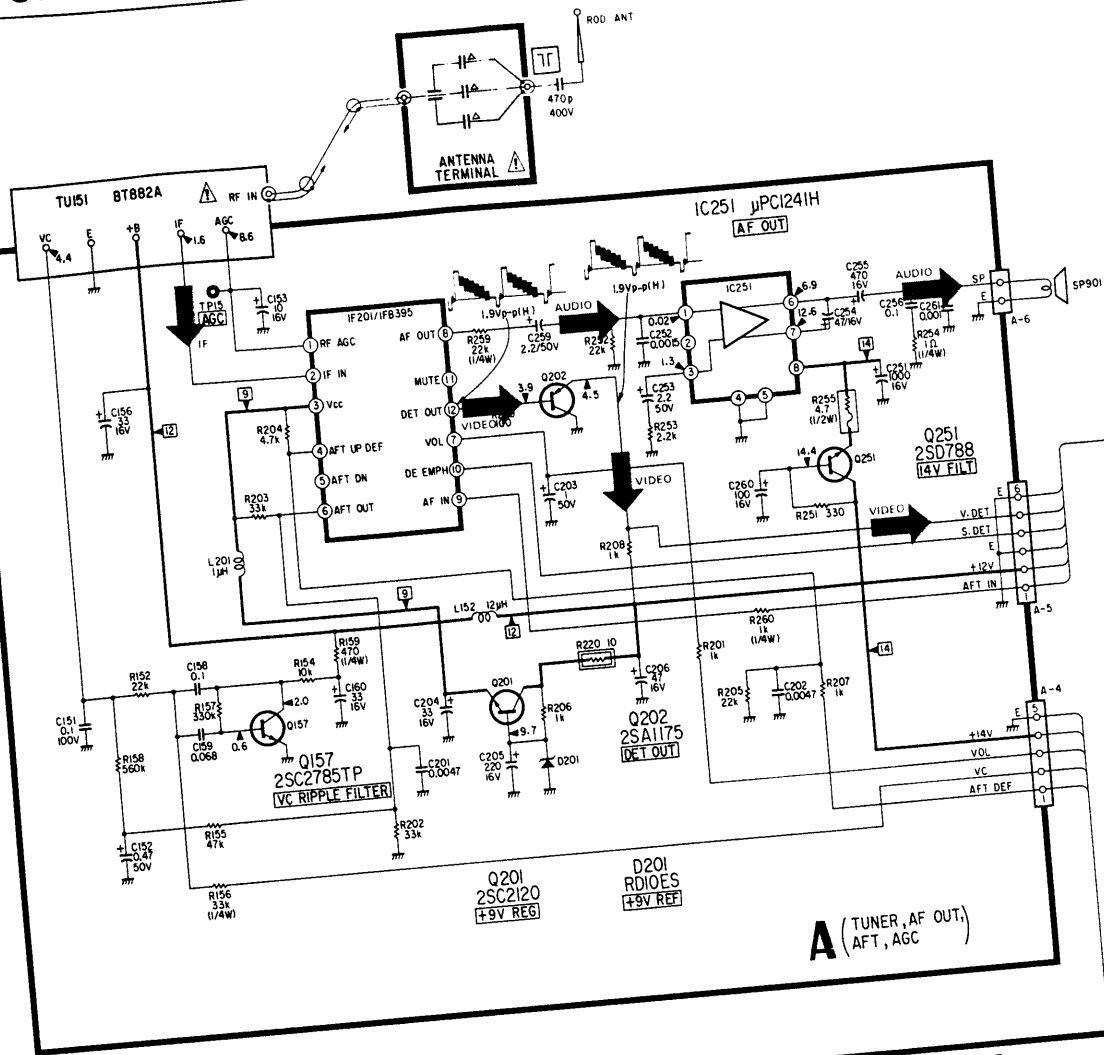
long
short
anode
cathode

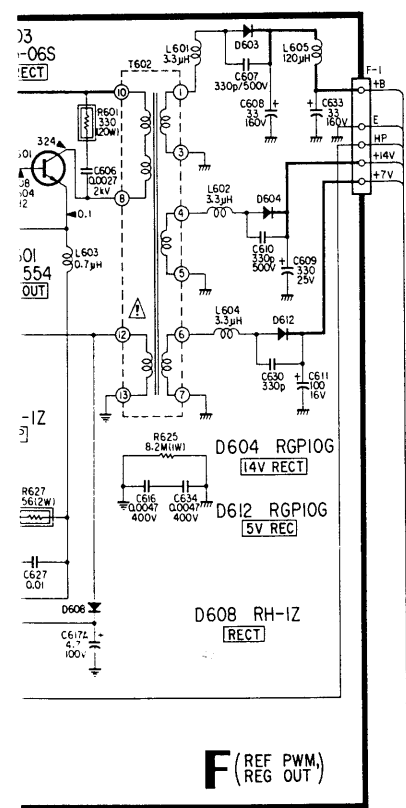
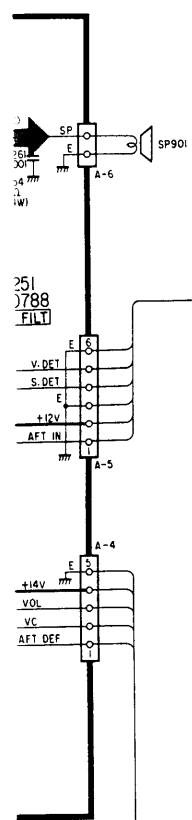
V19E



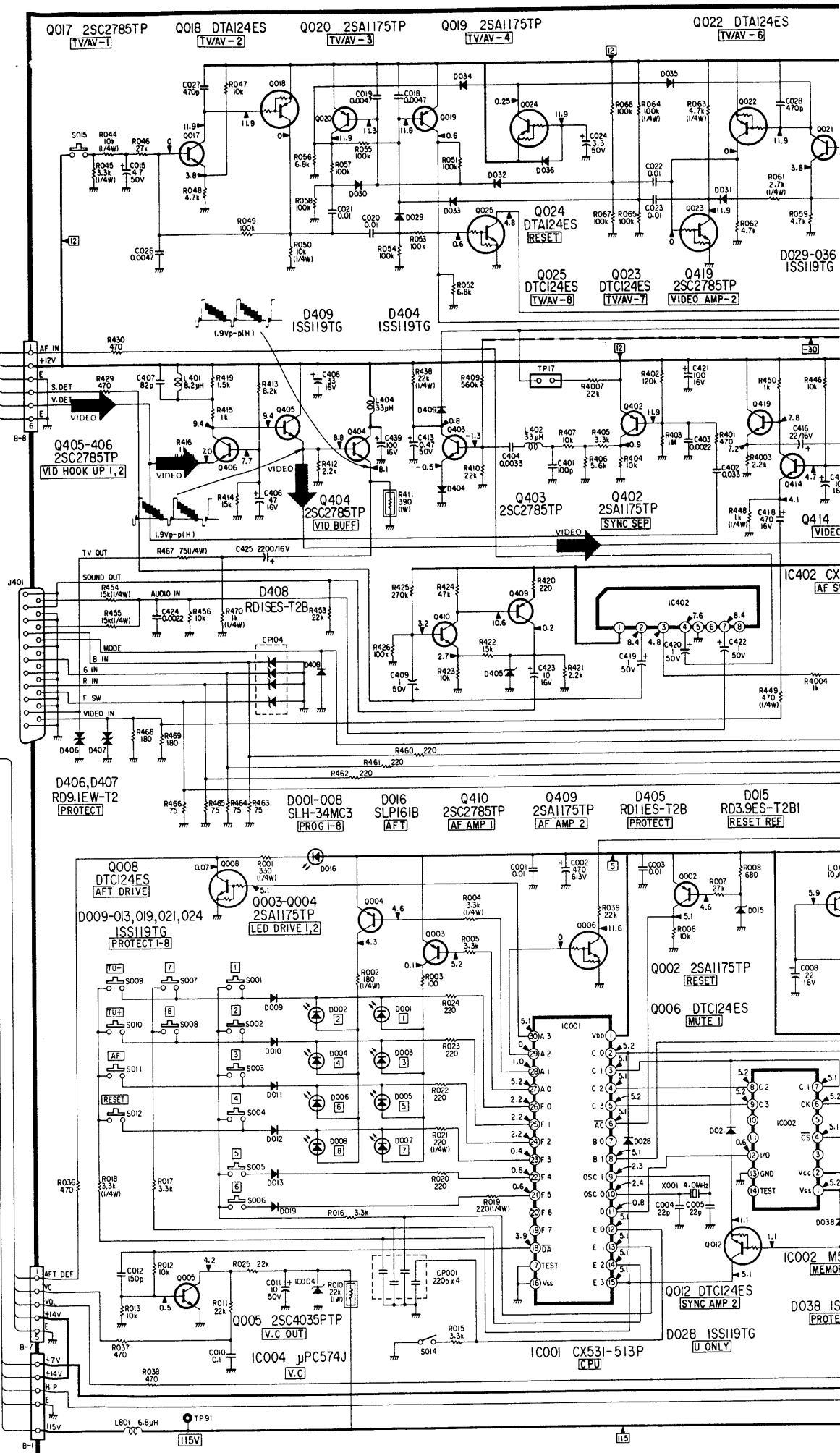
cathode
anode

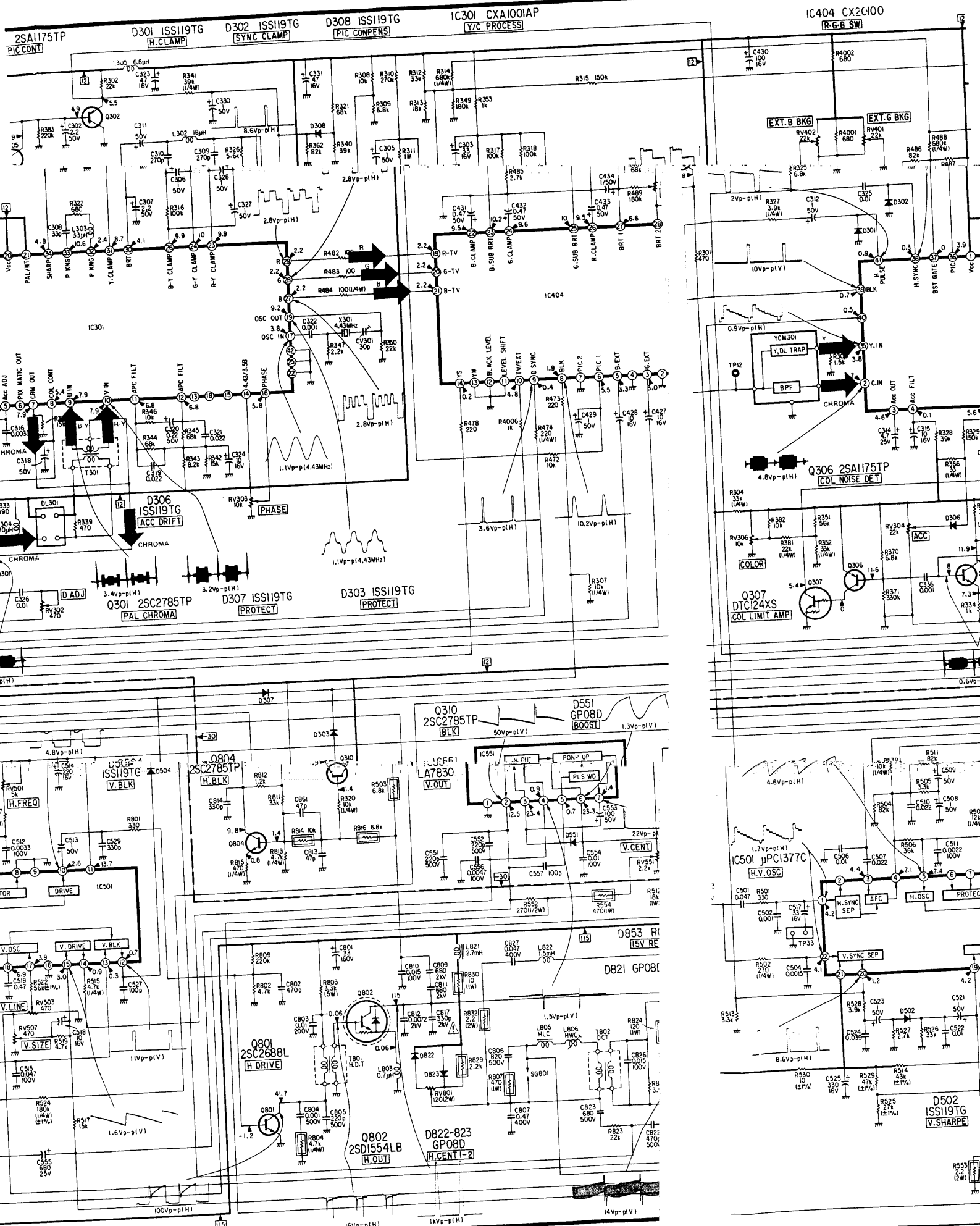






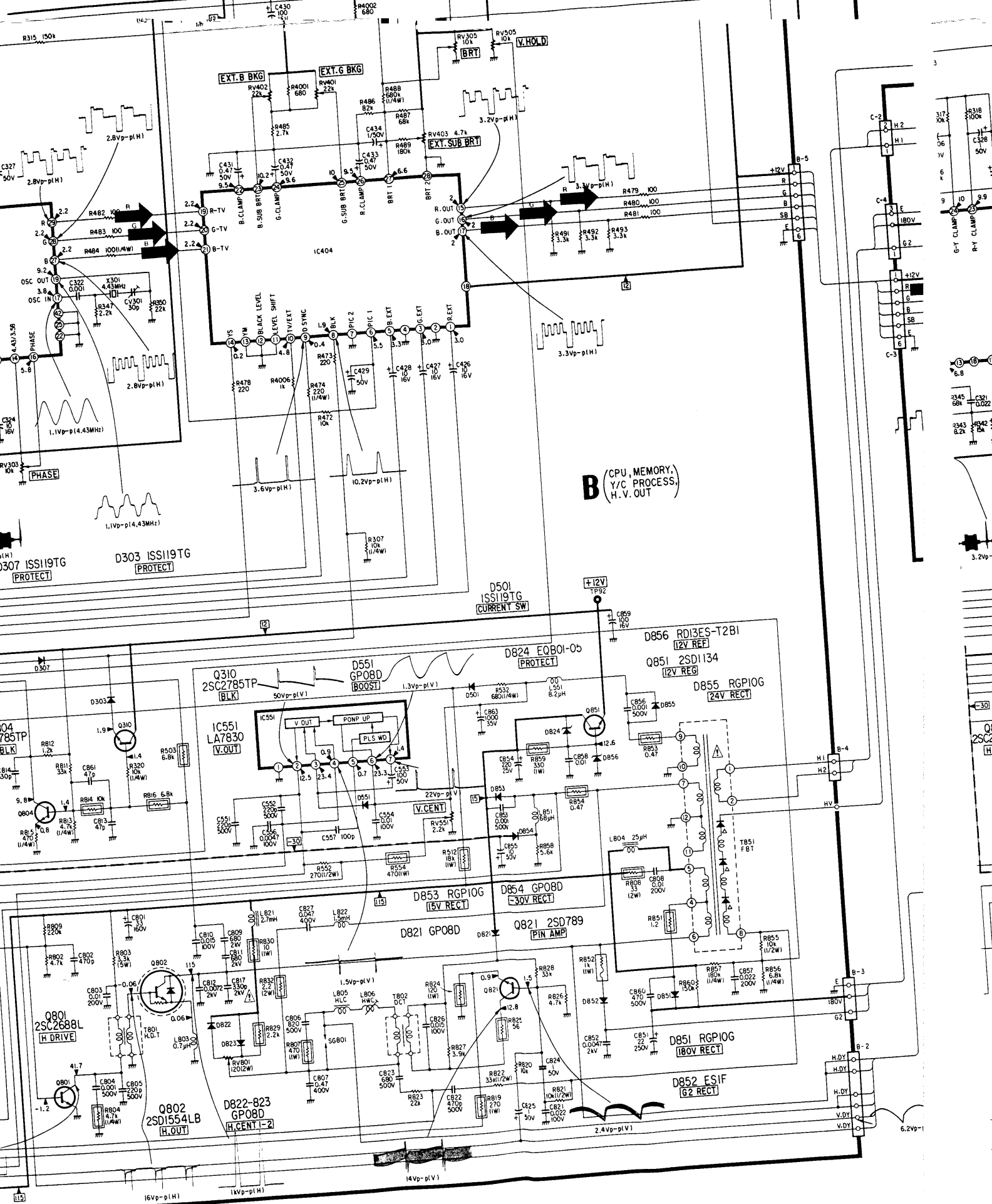
F (REF PWM, REG OUT)





CXA1001AP
PROCESS

IC404 CX2C100
R-G-B SW



B (CPU, MEMORY,
Y/C PROCESS,
H.V. OUT)



B (CPU, MEMORY,
Y/C PROCESS,
H.V. OUT)

