

KV-21XRU/21XRTU

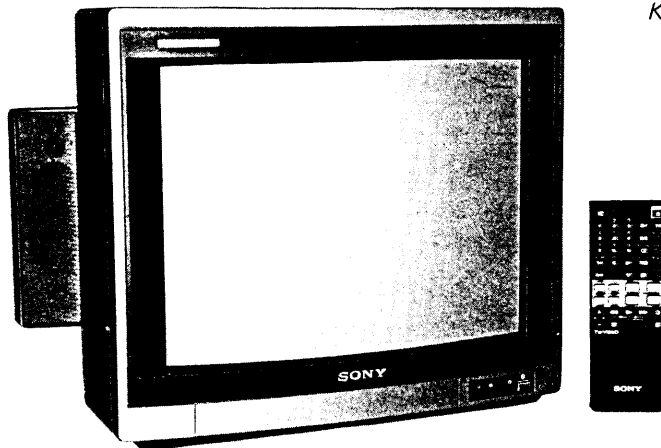
RM-661

SERVICE MANUAL

UK Model

KV-21XRU Chassis No. SCC-778A-A

KV-21XRTU Chassis No. SCC-778B-A



SX CHASSIS

May, 1986

SPECIFICATIONS

Television system	British TV standards	Outputs	Audio output connector (pin)
Colour system	PAL		Line output
Channel coverage	UHF channels 21–68		Variable 0–2 V _{rms} (max.)
Programming system	30 programmes		Impedance less than 1 kilohm
	Automatic programming digital tuning		External speaker terminals (2-pin DIN)
Picture tube	Approx. 54.5cm (21 inches)		For 16 ohm speakers
	114-degree deflection Trinitron system		Headphones jack (stereo phone jack)
	(Approx. 51 cm screen measured diagonally)	Power requirements	220–240 V ac, 50 Hz
		Power consumption	95 Wh
Aerial	75-ohm standard aerial socket (BS3041/IEC169-2)	Dimensions	(Approx. 6W in standby condition)
Speakers	Two speakers	Weight	Approx. 657 x 453 x 480 mm (w/h/d)
	Approx. 10 cm dia.	Accessory supplied	Approx. 26 kg
Audio output	5W + 5W (with 10% harmonic distortion)		RM 661 Remote Commander (1)
	15W + 15W (music power)		
Input	21-pin connector	Optional accessory	OPK-113 BGS teletext adaptor.
	in accordance with the requirements of CENELEC Standard		
		Design and specifications are subject to change without notice.	
Remote control system	infrared control		
Power requirements	3 V dc		
	2 batteries IEC designation R06 (size AAA)		
Dimensions:	Approx. 67 x 18 x 174 mm (w/h/d)		
Weight	Approx. 160g (3.5 oz) incl. batteries		
Accessories supplied	IEC designation R06 battery (2)		



TRINITRON® COLOUR TV


SONY®

CTV

TABLE OF CONTENTS

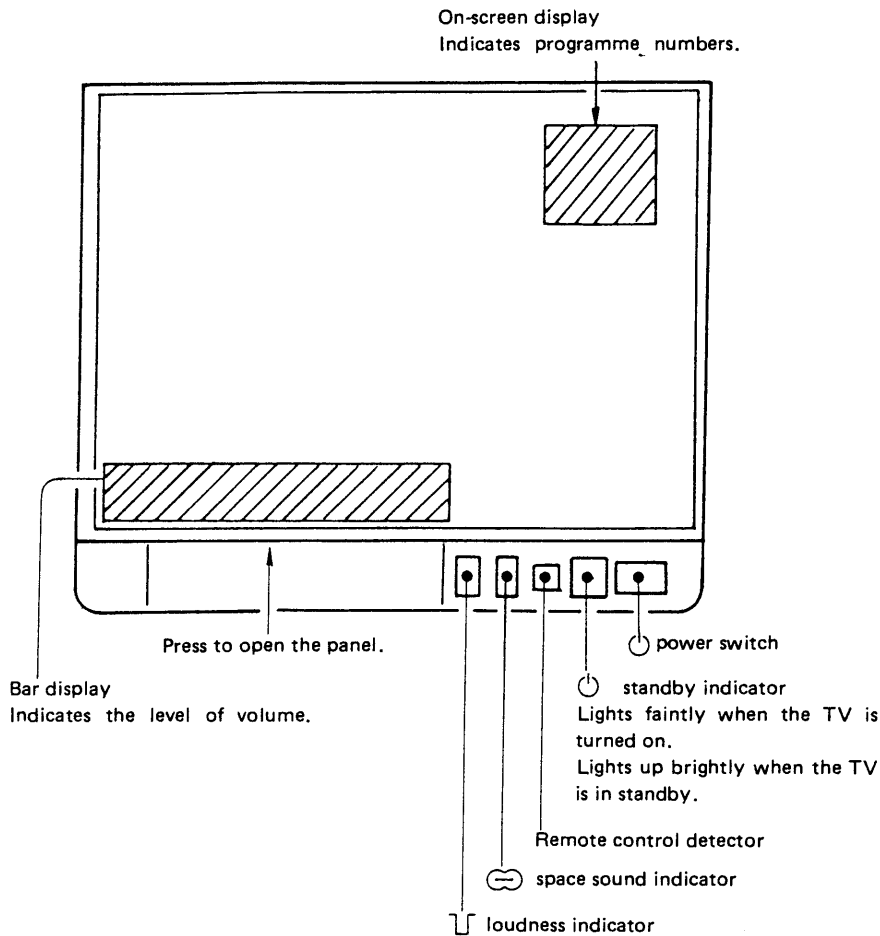
<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL			6. EXPLODED VIEWS		
1-1.	Location and Function of Controls	3	6-1.	Picture Tube	14
1-2.	Viewing TELETEXT	5	6-2.	Rear Cover	15
2. SERVICE POSITION			6-3.	Bezel Assy	16
2-1.	SERVICE POSITION	6	7. ELECTRICAL PARTS LIST		17
2-2.	OPK-113 BGS ATTACHING (KV-21XRU ONLY)	7	8. RM-661 REMOTE COMMANDER		
3. DISASSEMBLY			8-1.	Schematic Diagram and Pinned Wiring Board	33
3-1.	Picture Tube Removal	8	8-2.	Point Towards Remote Control Detector	34
4. SET UP ADJUSTMENTS			8-3.	Exploded Views	36
4-1.	Beam Lanbing	9	8-4.	Electrical Parts List	37
4-2.	Convergence	10			
4-3.	Focus	11			
4-4.	White Balance	11			
5. SEMICONDUCTORS					
5-1.	Semiconductors	13			

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.

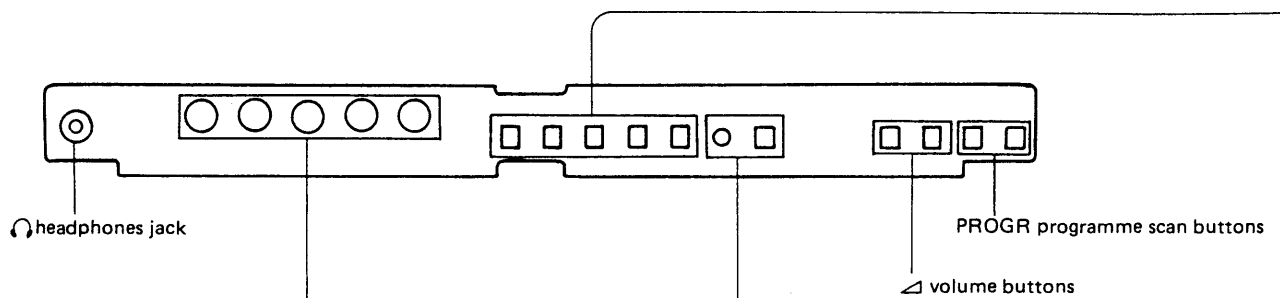
SECTION 1 GENERAL

1-1. FUNCTION OF CONTROLS



For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- sales@mauritron.co.uk

INSIDE THE PANEL



Use to adjust picture and sound

SHARPNESS

- brightness
- balance
- bass tone
- treble tone

Use to fine tune a weak channel.

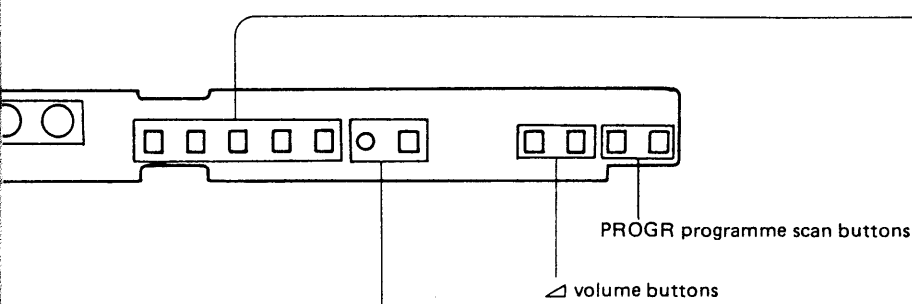
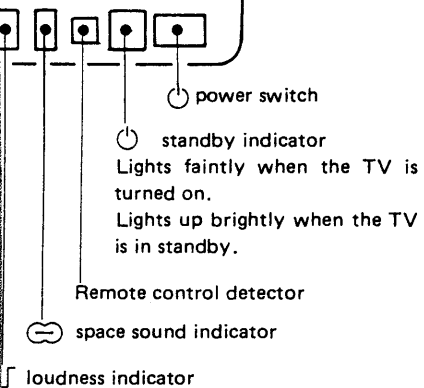
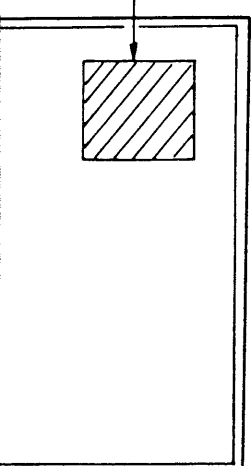
Normally, press AFT ON so that the indicator lights up. The channels are automatically fine tuned for the best possible picture.

However, in some cases a better picture may be obtained by fine tuning manually with SEARCH. When SEARCH is pressed, the AFT indicator goes off and the AFT circuit does not function on that channel.

(To restore the AFT circuit on this channel, press AFT ON so that the AFT indicator lights up.)

**SECTION 1
GENERAL**

on-screen display
indicates programme numbers.



Use to fine tune a weak channel.
Normally, press AFT ON so that the indicator lights up. The channels are automatically fine tuned for the best possible picture.
However, in some cases a better picture may be obtained by fine tuning manually with SEARCH. When SEARCH is pressed, the AFT indicator goes off and the AFT circuit does not function on that channel.
(To restore the AFT circuit on this channel, press AFT ON so that the AFT indicator lights up.)

CONNECTING OTHER EQUIPMENT

Rear of the TV		Use
	L/G/S left external speaker terminal	Connect to external speaker. The TV speakers will be disconnected.
	R/D/D right external speaker terminal	
	R/D/D right audio output jack	Connect to audio equipment.
	L/G/S left audio output jack	
	1 21-pin connector (CENELEC standard)	Connect to a VTR, microphone, computer, etc. The picture of the TV being received is always displayed. The picture of 2 is watched while recording a programme with the VTR connected to the TV.
	2 21-pin connector (without RGB input)	
	aerial socket	Connect to the aerial.

USE TO TUNE IN RECEIVABLE CHANNELS

To tune in all channels automatically:

- 1 Press PRESET.
- 2 Press PROGR to select the programme position from which tuning is to start.
- 3 Press AUTO PROGR.

The channels will be tuned in and memorized in chronological order, beginning from the programme position selected in step 1.

When tuning has been completed, the set returns to the channel where tuning started.

To tune in a particular channel in any desired programme position:








- 1 Press PRESET.
- 2 Press PROGR to select the desired position.
- 3 Press CLEAR.
- 4 Press SEARCH repeatedly until the desired channel is found.
- 5 Repeat steps 2 to 4 for all desired channels.
- 6 Press PRESET again.

To skip unused programme positions:

- 1 Press PRESET.
- 2 Press PROGR to select the unused position.
- 3 Press CLEAR.
- 4 Repeat steps 2 and 3 for all unused positions.
- 5 Press PRESET again.

This programme position will be skipped whenever PF (Programme Fine) the commander is pressed.

CONNECTING OTHER EQUIPMENT

Rear of the TV		Use
	L/G/S left external speaker terminal	Connect to external speakers. The TV speakers will be disconnected.
	R/D/D right external speaker terminal	
	R/D/D right audio output jack	Connect to audio equipment.
	L/G/S left audio output jack	
 1	21-pin connector (CENELEC standard)	Connect to a VTR, micro computer, etc. The picture of the TV channel being received is always output. The picture of  2 can be watched while recording a TV programme with the VTR connected to
 2	21-pin connector (without RGB input)	Connect to a second VTR. The picture displayed on the screen is always output. The picture coming in through can be recorded on to the VTR connected to  1 while monitoring the picture.
	aerial socket	Connect to the aerial.

VTR operation using the supplied Commander

To control an 8mm VTR, set the switch inside the battery compartment to IR. Set to the unmarked position to control other VTR's.

Remote operation of the VTR is limited to the features and functions of the VTR. For further details refer to the VTR manual.

USE TO TUNE IN RECEIVABLE CHANNELS

To tune in all channels automatically:

- 1 Press PRESET.
- 2 Press PROGR to select the programme position from which tuning is to start.
- 3 Press AUTO PROGR.

The channels will be tuned in and memorized in consecutive positions, beginning from the programme position selected in step 1.

When tuning has been completed, the set returns to the position where tuning started.

To tune in a particular channel in any desired programme position:

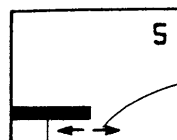
- 1 Press PRESET.
- 2 Press PROGR to select the desired position.
- 3 Press CLEAR.
- 4 Press SEARCH repeatedly until the desired channel appears.
- 5 Repeat steps 2 to 4 for all desired channels.
- 6 Press PRESET again.

To skip unused programme positions:

- 1 Press PRESET.
- 2 Press PROGR to select the unused position.
- 3 Press CLEAR.
- 4 Repeat steps 2 and 3 for all unused positions.
- 5 Press PRESET again.

This programme position will be skipped whenever PROGR ON the commander is pressed.

ON-SCREEN DISPLAY WHILE TUNING



Programme position

The band of the channel being tuned will be underlined.

Indicates the approximate location in the band of the channel being tuned in. The band lengthens for a higher-frequency channel and shortens for a lower-frequency channel,

1-2. VIEWING TELETEXT

The numbers and symbols on the Commander for the teletext mode are in green.

OPERATION

- 1 Select the TV channel for the desired teletext service.
- 2 Press TEXT/MIX to display the teletext service.

To return to the TV mode, press TV.




To display the index page
Press INDEX.

To display the desired teletext page
Key in the three digits for the desired page using the number buttons.


To request a higher-numbered or lower-numbered page
Press PAGE + or -.

To superimpose the teletext page on the TV picture
Press TEXT/MIX.

To hold a teletext page so that it cannot be updated
Press HOLD. To resume normal teletext reception, press TEXT/MIX.

To enlarge the teletext display
Press  /  / . Press once to enlarge the upper half of the display; press twice to enlarge the lower half of the display; press three times to return to the normal display.

To reveal the answers to a quiz
Press REVEAL.

To adjust the brightness of the teletext display
Press .

To display the teletext service of another channel

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press TEXT/MIX.

To have a requested page broadcast at a predetermined time

- 1 Request time coded page
- 2 Press TP ON. The time display in the top right hand corner of the screen starts flashing.
- 3 Enter your request time with the number buttons, using four digits. For example, 07:30.

To cancel the request, press TP OFF.

To watch a TV programme while waiting for the requested page to be displayed

- 1 Request new page.
- 2 Press TEXT CL to display the TV programme. The TV channel cannot be changed.

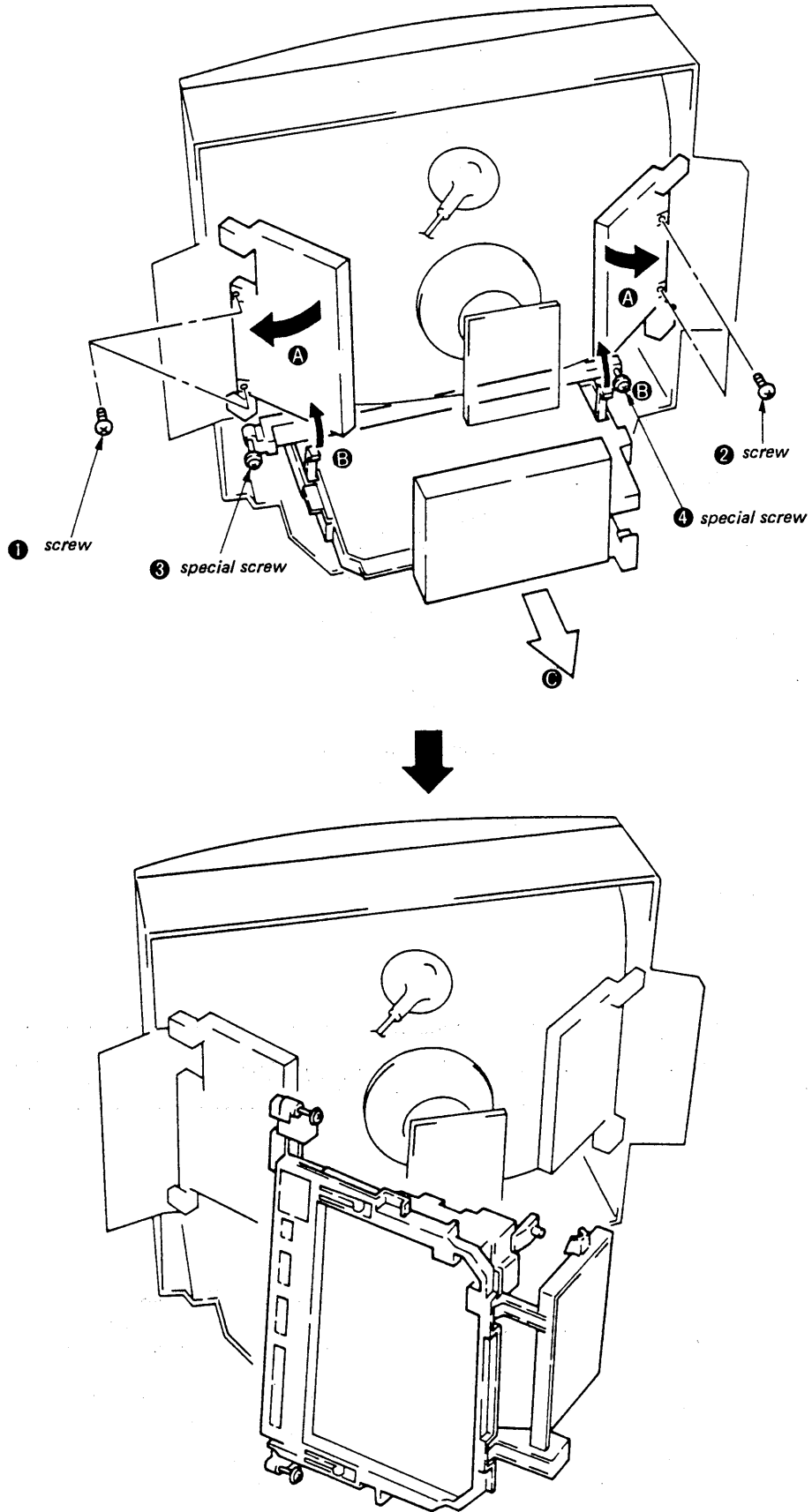
When the requested page has been captured by the adaptor, the page number is indicated in the top left hand corner of the screen. To display this page, press TEXT/MIX.

Notes

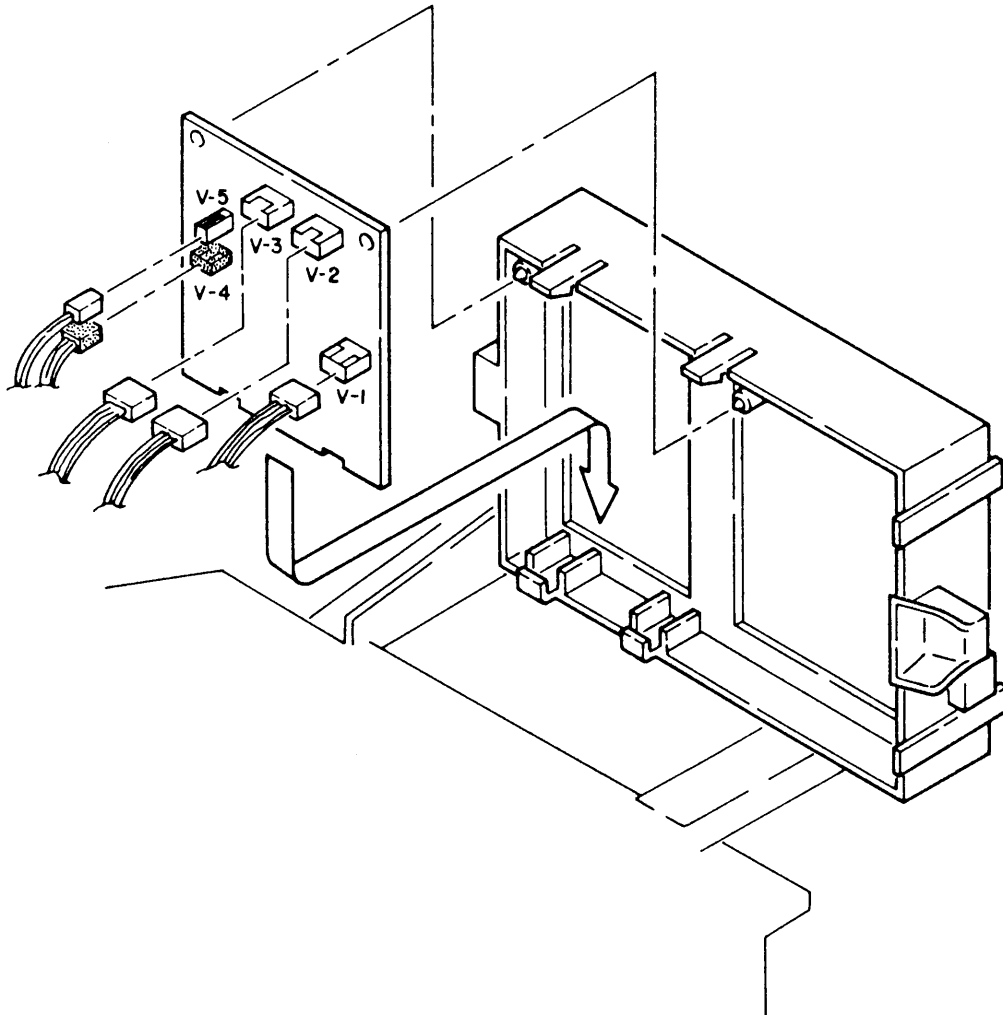
To prevent misoperation, keep AFT ON switched on in the teletext mode.

SECTION 2 SERVICE POSITION

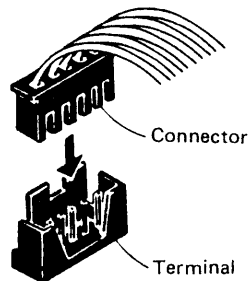
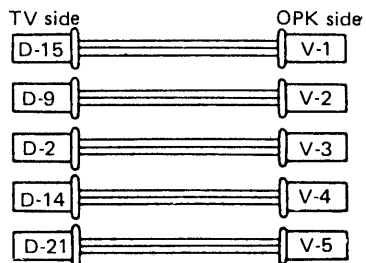
2-1. SERVICE POSITION



2-2. OPK-113 BGS ATTACHING (KV-21XRU ONLY)

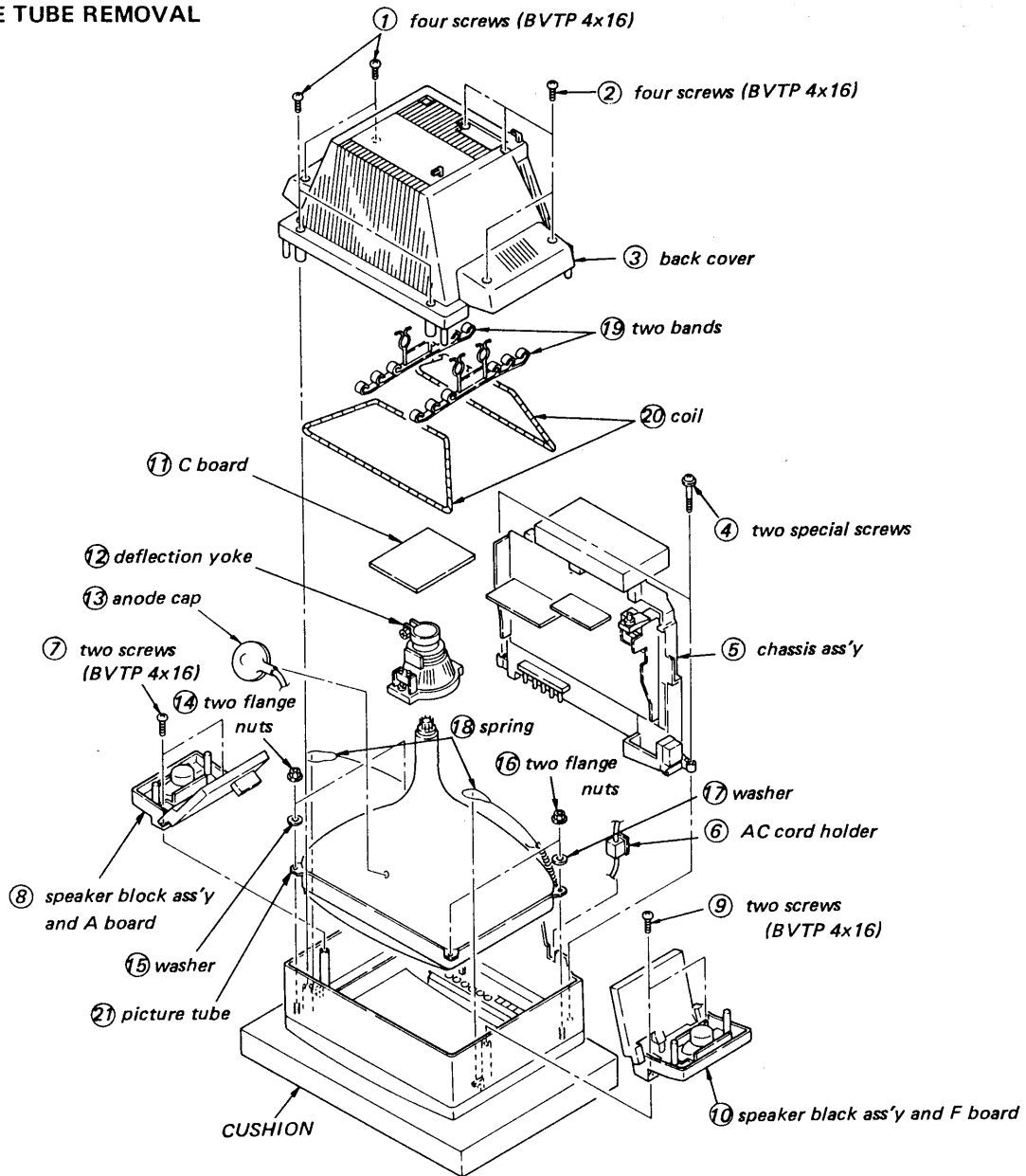


Connect to the same number terminal as the connector.

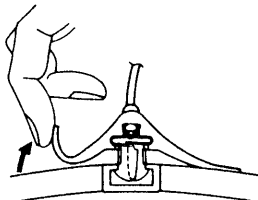
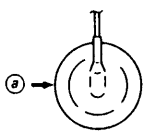


SECTION 3
DISASSEMBLY

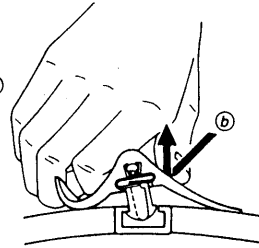
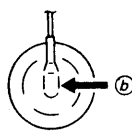
3-1 PICTURE TUBE REMOVAL



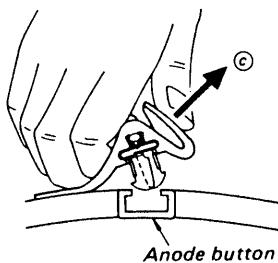
• **Removing Procedures**



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).



③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

SECTION 4 SETUP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

- PICTURE control 80% (or Normal by Commander)
- ☀ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. FOCUS
3. Convergence
4. White Balance

- Note:** Test Equipment Required.
1. Colour-bar/pattern Generator
 2. Degausser

4-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
 PICTURE normal
 BRT normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly.
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.
5. Switch over the raster signal to blue and green and confirm the condition.
6. When landing at the corners is not right, adjust by using the magnet.
7. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

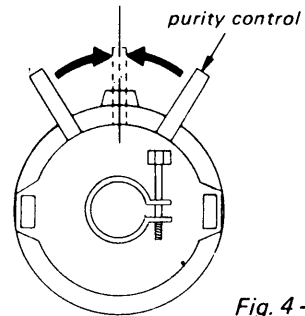


Fig. 4-1.

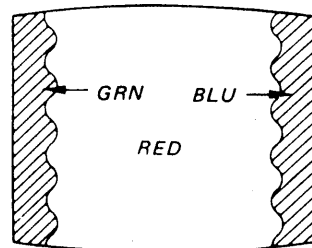


Fig. 4-2.

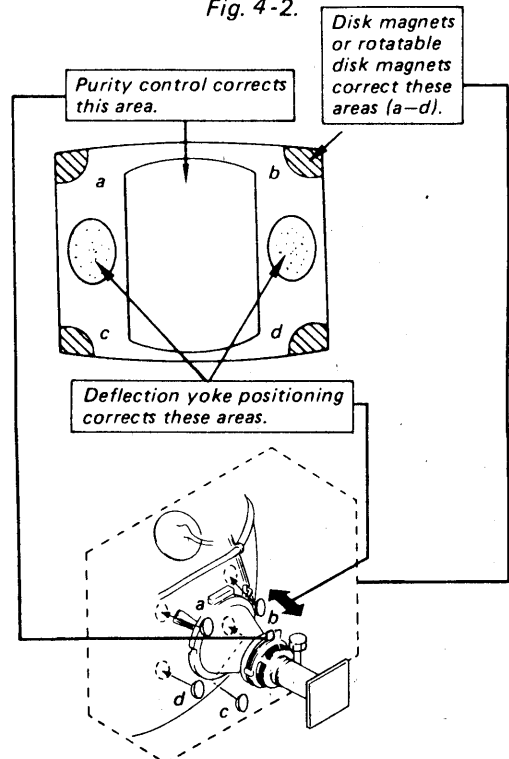
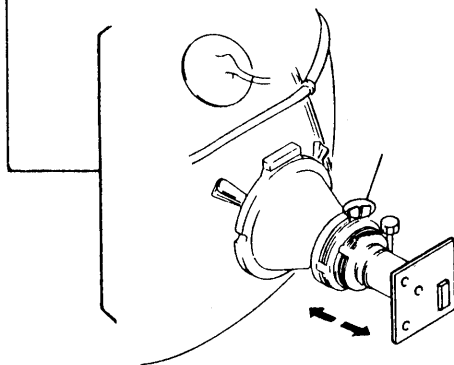


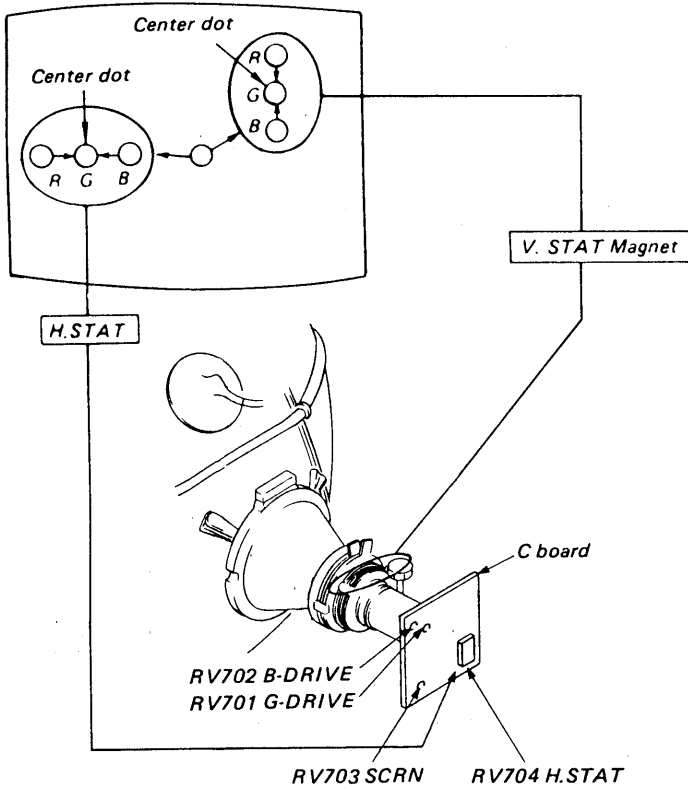
Fig. 4-3.

4-2. CONVERGENCE

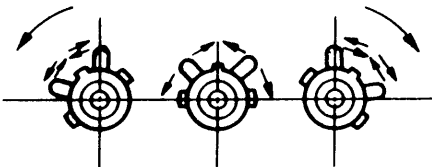
Preparation:

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

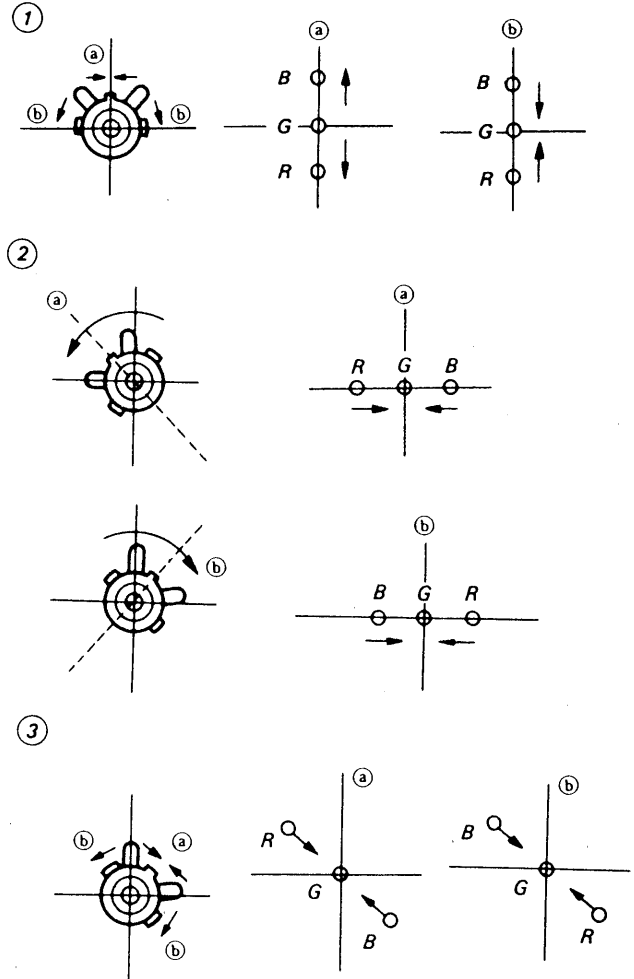
(1) Horizontal and Vertical Static Convergence



1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
 2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
 3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



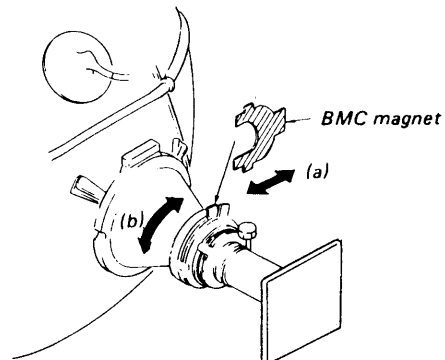
4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



If blue dot does not coincide with red and green dots, perform following steps.

- Move BMC magnet (a) to correct insufficient H. static convergence.
- Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.



(2) Dynamic Convergence Adjustment

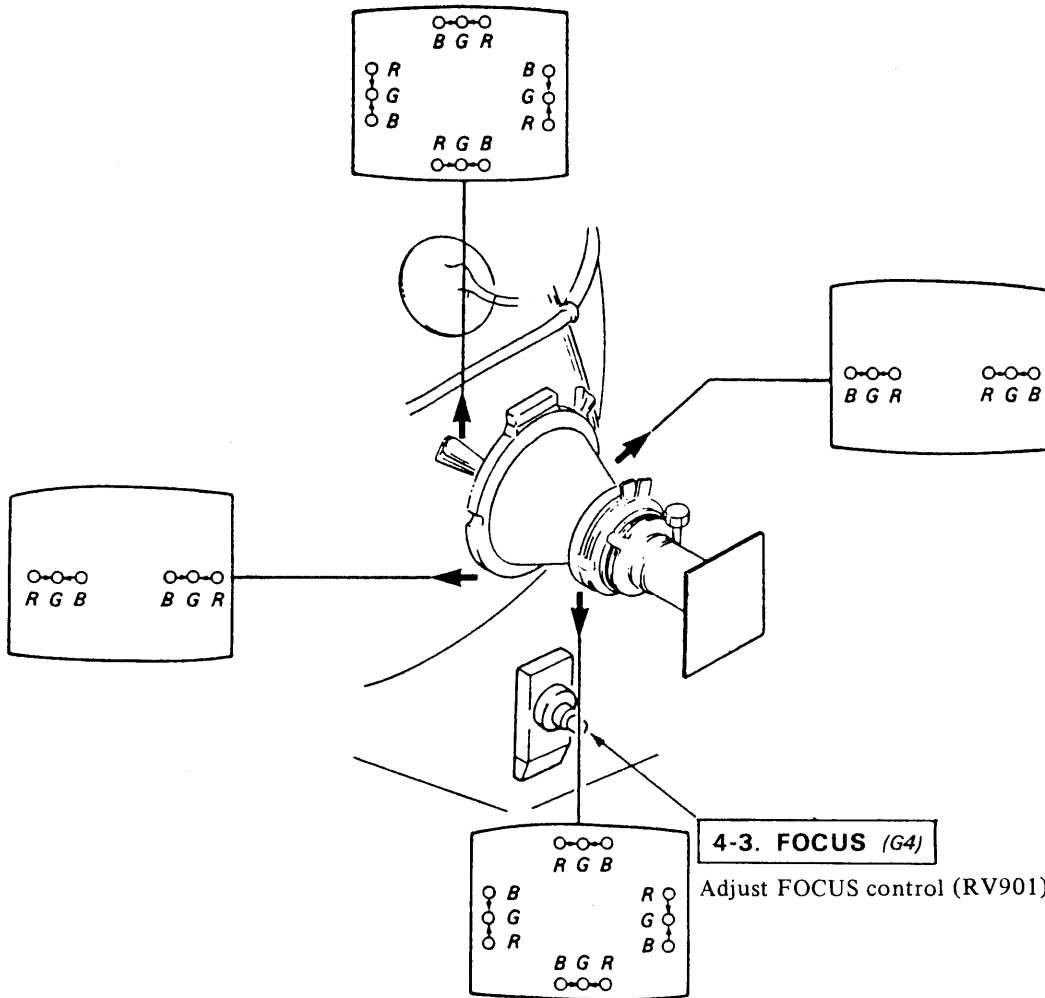
Preparation:

● Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



4-3. FOCUS (G4)
Adjust FOCUS control (RV901) for a best picture.

4-4. WHITE BALANCE

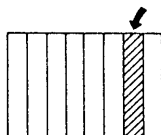
Auto Cut Off White Balance Adjustment.

G2 ADJ.

1. Receive a dot signal.
2. Set PIC, BRT VR's to minimum.
3. Connect external power supply 170V DC to R,G,B cathode.
4. Adjust G2 VR to the point where retrace glows faintly.

W/B ADJ.

1. Receive color bar.
2. Set: PIC, BRT: MAX
COL : MIN

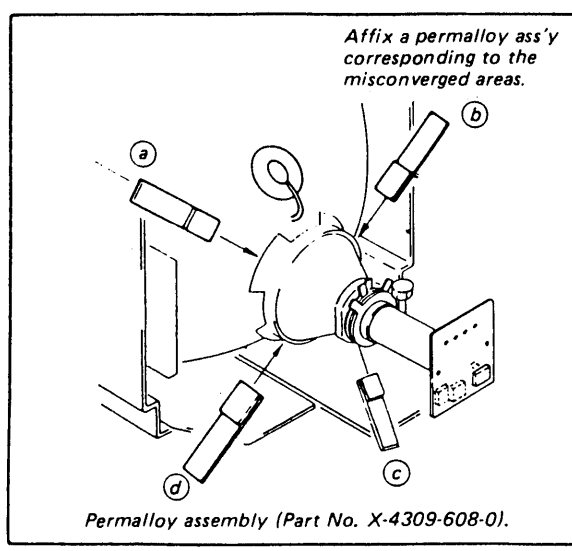
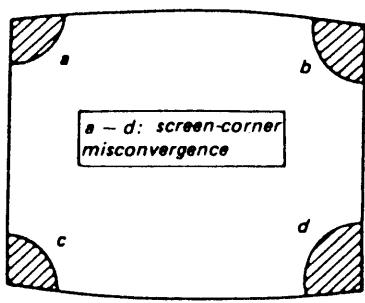


3. Adjust B,G DRIVE VR's to get white balance.
4. Set: PIC, COL: MIN
BRT : CENTER
Adjust SUB BRT. to the point where the arrow indicates.

SIMPLE ADJUSTMENT METHOD

1. Receive an air signal.
2. Set PIC, BRT, COL to MAX.
3. Set B,G DRIVE VR's to mechanical center.
4. Turn G2 VR fully to the left and right and adjust to the center of the range over which color does not change.

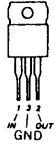
(3) Screen-corner Convergence



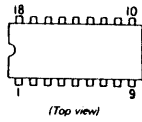
SECTION 5
SEMICONDUCTOR

5-1. SEMICONDUCTORS

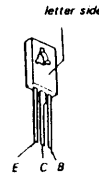
AN78M12R



TDA2546A
TDA2579
TDA2595
TDA4560



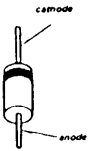
2SA1220A
2SC2611
2SC2688
TDA4560



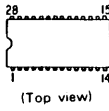
2SD795A-P



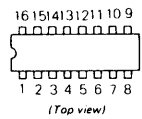
ERD29-08J



CX20199
MAB8441P-T060
SAA5230
TC5564PL-15
TDA3505-V7
TDA4555



TDA3541



2SB734
2SC2958
2SD773-3



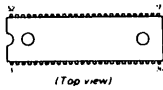
2SD1497
2SD1497-02
2SD1497-06



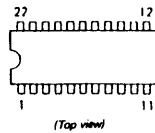
MC921TP



M50436-511SP



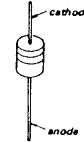
TDA4940



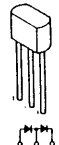
2SC403SP
DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



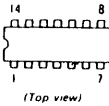
1SS135T-77



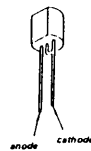
MC931TP



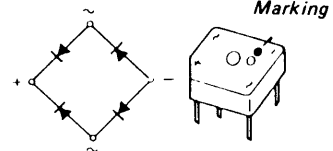
M58655P
TDA4944
NPC1394C



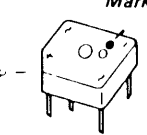
NPC574J



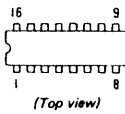
1N4148
ERD28-065
ES1F
RD3.6E-B2
RD3.9E-N1TN
RD5.1E-N2TN
RD5.6E-N1TN
RD5.6E-B2
RD5.6E-N2
RD5.6E-N3
RD6.2E-N2TN
RD6.8E-N1
RD7.5E-N2TN
RD12E-B2TN
RD12E-N2
RD13E-B2
RD39E-B2
RGP10GPKG23



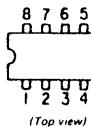
S3WB60Z



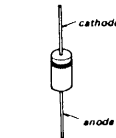
MC74HC4053N
TC74HC4053P
TDA1082



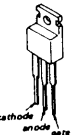
NPC4558C



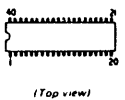
2SC1475
2SC3504
2SD789



S6344G



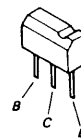
SAA5240A
SAA5240B



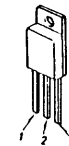
2SA1091
2SC2551
JA101TP
JC601TP



2SC1652



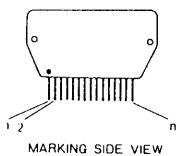
CTU-12S



TLP581



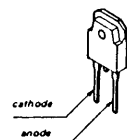
STK-4362



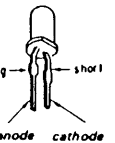
SSC2026



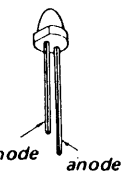
ERC26-15S
U05G
V19E



TLR124



TLUR144



SECTION 6
EXPLODED VIEWS

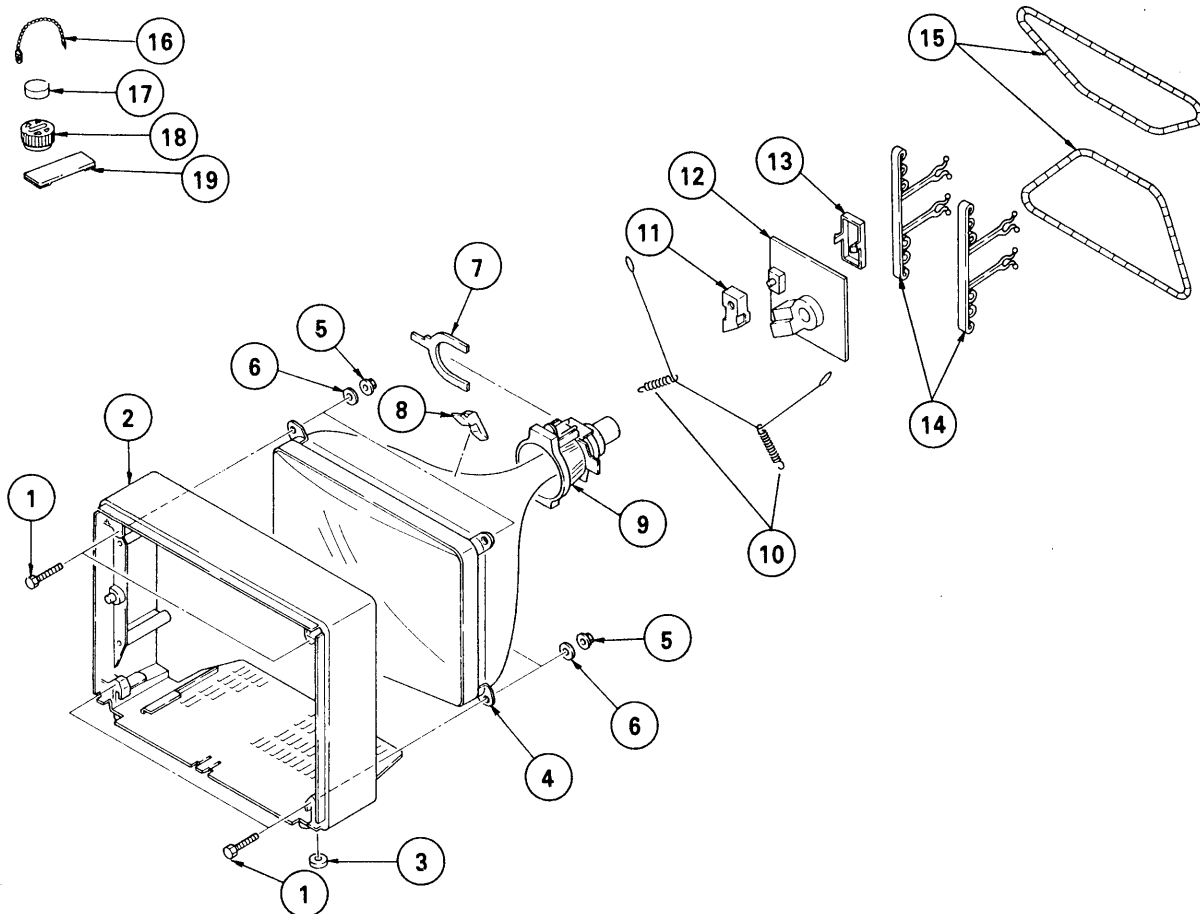
NOTE:

- 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 **Δ** are critical for safety. Replace only with part number specified.

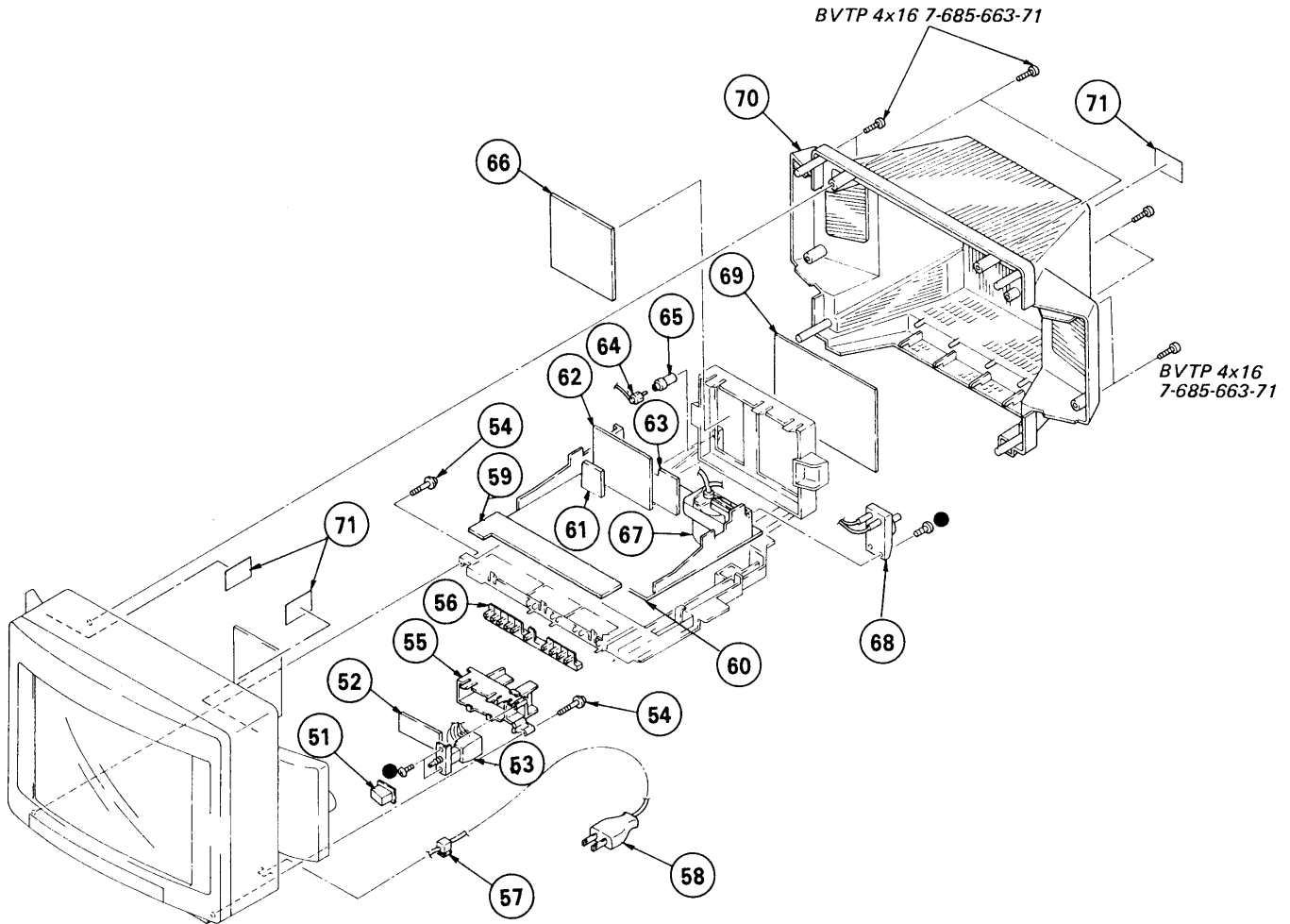
PICTURE TUBE



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	3-703-025-12	BOLT M5, HEXAGON-HEAD		10	4-369-318-00	SPRING, TENSION	
2	4-380-631-01	CABINET		11	*4-379-167-01	COVER (MAIN), CV	
2	4-380-631-11	CABINET		12	*A-1330-720-A	C BOARD, COMPLETE	
3	4-809-913-XX	FOOT, F		13	*4-379-160-01	COVER (REAR LID), CV	
4	Δ 8-736-954-05	CRT (A51JKQ60X)		14	*4-380-620-01	BAND, DEGAUSS COIL	
5	4-306-034-00	FLANGE NUT, (B) 5MM		15	Δ 1-426-280-11	COIL, DEMAGNETIZATION	
6	4-373-615-02	WASHER, CRT POSITIONING		16	4-308-870-00	CLIP, LEAD WIRE	
7	1-452-277-00	MAGNET, BMC		17	1-452-032-00	MAGNET, DISK; 10MM φ	
8	3-703-003-00	SPACER, DY		18	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
9	Δ 1-451-290-11	DEFLECTION YOKE (SY-153F)		19	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	

REAR COVER

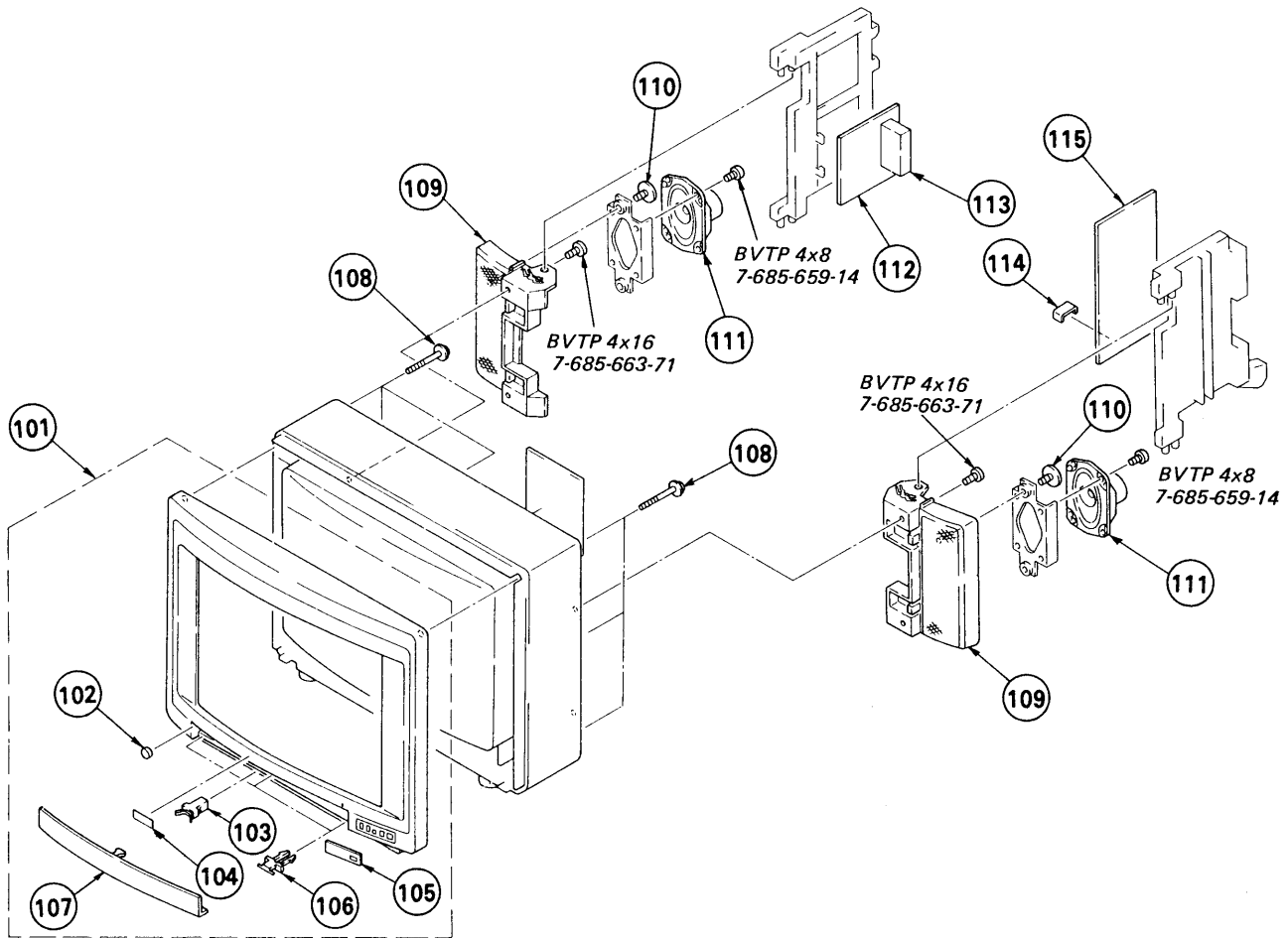
• BVTP 3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	4-380-624-01	BUTTON, POWER		62	*A-1345-626-A	D2 BOARD, COMPLETE	
52	*1-617-746-11	H2 BOARD		63	*1-617-753-11	D1 BOARD	
53	▲1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)		64	*1-557-129-31	CABLE (WITH PIN)	
54	4-319-520-00	SCREW, SPECIAL (+PW4X30)		65	1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)	
55	*4-380-623-01	BRACKET, POWER SWITCH		66	*A-1325-023-A	V BOARD, COMPLETE (21XRTU ONLY)	
56	4-380-644-01	BUTTON (COMPLETE), MULTI		67	▲1-439-387-11	TRANSFORMER ASSY, FLYBACK	
57	4-368-619-00	HOLDER, CORD, AC		68	▲1-237-286-11	RESISTOR ASSY, HIGH-VOLTAGE	
58	▲1-557-124-12	CORD, AC (3 CORE)		69	*A-1371-192-A	J1 BOARD, COMPLETE	
59	*1-617-747-11	H1 BOARD		70	4-380-636-01	COVER, REAR	
60	*A-1345-625-A	D BOARD, COMPLETE		71	*4-380-651-01	LABEL (A), COMBINATION (KV-21XRU)	
61	*1-618-128-11	D3 BOARD		71	*4-380-648-01	LABEL (A), COMBINATION (KV-21XRTU)	

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

BEZEL ASSY



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	X-4380-603-1	BEZEL ASSY (KV-21XRU)		108	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
101	X-4380-603-2	BEZEL ASSY (KV-21XRTU)		109	X-4380-602-1	PANEL ASSY, SPEAKER	
102	*4-314-871-00	CUSHION		110	4-314-843-00	SCREW, TAPPING, +4X12	
103	4-374-714-01	CATCH, PUSH		111	1-503-642-11	SPEAKER	
104	4-374-115-01	EMBLEM, SONY		112	*A-1296-155-A	A BOARD, SUB COMPLETE	
105	*4-380-619-01	WINDOW, ORNAMENTAL		113	△1-463-412-00	TUNER, UHF ET (U341)	
106	3-662-365-00	SHAFT (S), DOOR		114	*4-375-709-01	COVER, FUSE	
107	4-380-626-01	DOOR (KV-21XRU)		115	*A-1245-339-A	F BOARD, SUB COMPLETE	
107	4-380-626-11	DOOR (KV-21XRTU)					

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

SECTION 7
ELECTRICAL PARTS LIST

F

NOTE:

The components identified by shading and mark Δ 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
- COILS
- MMH : mH, UH : μ H

- CAPACITORS
- MF : μ F, PF : μ PF

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

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1245-339-A	F BOARD, COMPLETE *****		D603	8-719-815-55	DIODE 1S1555	
<u>CAPACITOR</u>				D604	8-759-157-40	IC UPC574J	
C601	Δ 1-117-121-51	PAPER 0.22MF 20% 250V		D605	8-719-924-06	DIODE ERC24-06S	
C603	1-162-578-00	CERAMIC 0.0047MF 20% 400V		D606	8-719-815-55	DIODE 1S1555	
C604	1-162-578-00	CERAMIC 0.0047MF 20% 400V		D607	8-719-815-55	DIODE 1S1555	
C607	Δ 1-161-964-61	CERAMIC 0.0047MF 250V		D608	8-719-815-55	DIODE 1S1555	
C608	Δ 1-161-964-61	CERAMIC 0.0047MF 250V		D609	8-719-305-15	DIODE GH3F	
C609	Δ 1-161-964-61	CERAMIC 0.0047MF 250V		D651	8-719-928-08	DIODE ERD28-06S	
C610	1-125-318-00	ELECT(BLOCK) 220MF 20% 400V		D652	8-719-924-06	DIODE ERC24-06S	
C611	1-110-175-81	MYLAR 0.1MF 10% 100V		D653	8-719-924-06	DIODE ERC24-06S	
C612	1-106-180-00	MYLAR 0.0022MF 5% 50V		D654	8-719-300-59	DIODE CTU-12S	
C613	1-123-356-00	ELECT 10MF 20% 16V		D655	8-719-000-12	DIODE MC931	
C614	1-123-356-00	ELECT 10MF 20% 16V		D656	8-719-300-59	DIODE CTU-12S	
C615	1-102-106-00	CERAMIC 100PF 10% 50V		D657	8-719-924-06	DIODE ERC24-06S	
C616	1-123-369-00	ELECT 4.7MF 20% 25V		D658	8-719-102-74	DIODE RD6.2E-N2	
C617	1-110-186-81	MYLAR 0.0047MF 10% 400V		D659	8-719-102-70	DIODE RD5.6E-N1	
C618	1-102-030-00	CERAMIC 330PF 10% 500V		D660	8-719-815-55	DIODE 1S1555	
C619	1-110-182-81	MYLAR 0.022MF 10% 250V		D661	8-719-815-55	DIODE 1S1555	
C620	1-123-332-00	ELECT 47MF 20% 16V		D662	8-719-924-06	DIODE ERC24-06S	
C621	1-136-065-00	FILM 0.0027MF 3% 2KV		D663	8-719-102-74	DIODE RD6.2E-N2	
C622	1-123-385-00	ELECT 22MF 20% 100V		D664	8-719-153-86	DIODE RD12E-B2	
C623	1-161-973-00	CERAMIC 220PF 10% 400V		<u>CONNECTOR</u>			
C624	1-161-973-00	CERAMIC 220PF 10% 400V		F1	*1-506-349-21	3P PLUG (L)	
C625	1-123-380-00	ELECT 1MF 20% 50V		F2	*1-508-765-00	3P PLUG (M)	
C627	1-123-380-00	ELECT 1MF 20% 50V		F3	*1-508-786-00	2P PLUG (M)	
C628	1-106-180-00	MYLAR 0.0022MF 5% 50V		F4	*1-508-765-00	3P PLUG (M)	
C632	1-102-038-00	CERAMIC 0.001MF 500V		F6	*1-564-880-31	PLUG, CONNECTOR 3P	
C634	1-110-175-81	MYLAR 0.1MF 10% 100V		F7	*1-564-883-11	PLUG, CONNECTOR 6P	
C651	1-162-115-00	CERAMIC 330PF 10% 2KV		<u>FUSE</u>			
C652	1-124-347-00	ELECT 100MF 20% 160V		F601	Δ 1-532-350-11	FUSE, TIME-LAG 4.0A/250V	
C653	1-123-364-00	ELECT 1000MF 20% 50V			1-533-149-00	HOLDER, FUSE; F601	
C654	1-123-606-00	ELECT 1000MF 20% 25V		<u>IC</u>			
C655	1-123-606-00	ELECT 1000MF 20% 25V		IC601	8-759-100-75	IC UPC1394C	
C656	1-102-038-00	CERAMIC 0.001MF 500V		IC602	Δ 8-719-800-82	DIODE TLP581	
C657	1-123-380-00	ELECT 1MF 20% 50V		IC651	8-759-145-58	IC UPC4558C	
C658	1-123-332-00	ELECT 47MF 20% 16V		<u>COIL</u>			
C659	1-102-074-00	CERAMIC 0.001MF 10% 50V		L601	1-407-365-00	COIL, CHOKE	
C660	1-123-875-91	ELECT 10MF 20% 50V		L651	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C661	1-123-973-91	ELECT 100MF 20% 16V		L652	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
C662	1-110-190-81	MYLAR 0.01MF 10% 400V		L653	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C663	1-123-380-00	ELECT 1MF 20% 50V		L654	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C664	1-124-038-91	ELECT 1MF 20% 50V		<u>TRANSISTOR</u>			
C665	1-123-380-00	ELECT 1MF 20% 50V		Q601	8-729-195-82	TRANSISTOR 2SC2958	
C666	1-123-307-00	ELECT 100MF 20% 6.3V		Q602	8-729-301-00	TRANSISTOR 2SD1497-02	
C667	1-102-121-00	CERAMIC 0.0022MF 10% 50V			4-365-216-00	SPACER, MICA; Q602	
C668	1-110-190-81	MYLAR 0.01MF 10% 400V			*4-368-683-01	SPRING; Q602	
C669	1-102-038-00	CERAMIC 0.001MF 500V		Q603	8-729-178-54	TRANSISTOR 2SC2785	
<u>DIODE</u>							
D601	Δ 8-719-503-06	DIODE S3WB60Z					
D602	8-719-100-65	DIODE RD12E-B2					



Ref.No.	Part No.	Description	Remark
Q651	8-729-109-53	TRANSISTOR 2SD795A	
Q652	8-729-178-54	TRANSISTOR 2SC2785	
Q653	8-729-178-54	TRANSISTOR 2SC2785	
RESISTOR			
R601	△ 1-217-328-11	WIREWOUND 2.7 10% 7W	F
R602	△ 1-244-945-91	CARBON 1M 5% 1/2W	
R603	△ 1-205-758-11	CEMENTED 100 10% 10W	F
R604	1-247-289-00	CARBON 8.2M 5% 1W	
R605	1-215-798-91	METAL 330K 5% 1/6W	
R606	1-215-770-91	METAL 22K 5% 1/6W	
R608	1-215-746-91	METAL 2.2K 5% 1/6W	
R609	1-215-871-11	METAL OXIDE 2.2K 5% 1W	F
R611	1-215-774-91	METAL 33K 5% 1/6W	
R612	△ 1-215-904-51	METAL OXIDE 100K 5% 2W	F
R613	1-215-872-11	METAL OXIDE 3.3K 5% 1W	F
R614	1-216-459-00	METAL OXIDE 2.7K 5% 2W	F
R615	1-205-793-00	CEMENTED 30K 10% 10W	
R616	1-215-772-91	METAL 27K 5% 1/6W	
R621	1-215-762-91	METAL 10K 5% 1/6W	
R622	1-215-770-91	METAL 22K 5% 1/6W	
R623	1-215-162-00	METAL 2.7K 5% 1/4W	
R624	1-215-754-91	METAL 4.7K 5% 1/6W	
R625	1-215-786-91	METAL 100K 5% 1/6W	
R626	1-215-150-00	METAL 820 5% 1/4W	
R627	1-215-722-91	METAL 220 5% 1/6W	
R628	1-215-796-91	METAL 270K 5% 1/6W	
R629	1-215-758-91	METAL 6.8K 5% 1/6W	
R630	1-215-112-00	METAL 22 5% 1/4W	
R631	1-205-728-00	CEMENTED 47 10% 7W	
R632	1-217-192-00	WIREWOUND 0.22 10% 2W	F
R633	1-215-794-91	METAL 220K 5% 1/6W	
R634	1-215-778-91	METAL 47K 5% 1/6W	
R636	1-215-794-91	METAL 220K 5% 1/6W	
R637	1-215-770-91	METAL 22K 5% 1/6W	
R638	1-215-430-00	METAL 2.4K 1% 1/6W	
R639	1-215-754-91	METAL 4.7K 5% 1/6W	
R642	△ 1-205-758-11	CEMENTED 100 10% 10W	F
R651	1-216-477-11	METAL OXIDE 270 5% 3W	F
R652	1-216-430-11	METAL OXIDE 390 5% 1W	F
R653	1-215-754-91	METAL 4.7K 5% 1/6W	
R654	1-216-464-11	METAL OXIDE 18K 5% 2W	F
R655	1-215-794-91	METAL 220K 5% 1/6W	
R656	1-215-778-91	METAL 47K 5% 1/6W	
R657	1-215-698-91	METAL 22 5% 1/6W	
R659	1-215-865-11	METAL OXIDE 220 5% 1W	F
R660	1-216-370-11	METAL OXIDE 1.2 5% 2W	F
R662	1-215-776-91	METAL 39K 5% 1/6W	
R663	1-215-764-91	METAL 12K 5% 1/6W	
R664	1-215-200-00	METAL 100K 5% 1/4W	
R665	1-215-754-91	METAL 4.7K 5% 1/6W	
R666	1-215-144-00	METAL 470 5% 1/4W	
R667	1-215-126-81	METAL 82 5% 1/4W	

Ref.No.	Part No.	Description	Remark
R668	1-215-778-91	METAL 47K 5% 1/6W	
R669	1-215-752-91	METAL 3.9K 5% 1/6W	
R670	1-215-746-91	METAL 2.2K 5% 1/6W	
VARIABLE RESISTOR			
RV651	1-230-627-11	RES, ADJ, CARBON 1K	
RV652	1-230-521-11	RES, ADJ, METAL GLAZE 2.2K	
TRANSFORMER			
T601	△ 1-421-776-11	LFT	
T603	1-437-079-00	TRANSFORMER, HPRIZONTAL DRIVE	
T605	△ 1-421-733-11	SRT	
THERMISTOR			
TH601	△ 1-800-944-11	THERMISTOR TH-4700	
TH651	△ 1-800-944-11	THERMISTOR TH-4700	
THP601	△ 1-806-387-11	THERMISTOR (POSITIVE)	
THP602	△ 1-806-387-11	THERMISTOR (POSITIVE)	

*A-1296-155-A A BOARD, COMPLETE			

*1-557-129-31 CABLE (WITH PIN)			
*4-336-030-00 CASE (MAIN), SHIELD, VIF			
*4-359-334-01 CASE (UPPER LID), SHIELD, VIF			
*4-359-335-01 CASE (BOTTOM LID), SHIELD, VIF			
CONNECTOR			
A2	*1-564-883-11	PLUG, CONNECTOR 6P	
A3	*1-564-890-11	PLUG, CONNECTOR 13P	
A5	*1-508-784-00	1P PLUG	
CAPACITOR			
C104	1-123-318-00	ELECT 33MF 20% 16V	
C105	1-123-356-00	ELECT 10MF 20% 16V	
C106	1-102-523-00	CERAMIC 56PF 5% 50V	
C107	1-102-514-00	CERAMIC 22PF 5% 50V	
C108	1-102-518-00	CERAMIC 33PF 5% 50V	
C109	1-110-173-81	MYLAR 0.068MF 10% 100V	
C110	1-110-173-81	MYLAR 0.068MF 10% 100V	
C111	1-102-963-00	CERAMIC 33PF 5% 50V	
C112	1-123-318-00	ELECT 33MF 20% 16V	
C113	1-102-520-00	CERAMIC 39PF 5% 50V	
C114	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C115	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C116	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C117	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C118	1-161-328-00	CERAMIC 0.0047MF 30% 50V	
C119	1-123-381-00	ELECT 2.2MF 20% 50V	
C120	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C121	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C122	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C123	1-102-525-00	CERAMIC 68PF 5% 50V	

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

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C124	1-102-525-00	CERAMIC	68PF	5%	50V		
C125	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C126	1-123-380-00	ELECT	1MF	20%	50V		
C127	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C128	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C129	1-123-318-00	ELECT	33MF	20%	16V		
C130	1-102-973-00	CERAMIC	100PF	5%	50V		
C131	1-123-332-00	ELECT	47MF	20%	16V		
C132	1-102-820-00	CERAMIC	330PF	5%	50V		
C137	1-123-318-00	ELECT	33MF	20%	16V		
C138	1-101-004-00	CERAMIC	0.01MF		50V		
C140	1-110-171-81	MYLAR	0.047MF	10%	100V		
C141	1-102-959-00	CERAMIC	22PF	5%	50V		
C142	1-102-959-00	CERAMIC	22PF	5%	50V		
C143	1-101-004-00	CERAMIC	0.01MF		50V		
C144	1-101-004-00	CERAMIC	0.01MF		50V		
C145	1-123-332-00	ELECT	47MF	20%	16V		
C147	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
C148	1-102-973-00	CERAMIC	100PF	5%	50V		
C149	1-123-318-00	ELECT	33MF	20%	16V		
C151	1-110-171-81	MYLAR	0.047MF	10%	100V		
C154	1-123-318-00	ELECT	33MF	20%	16V		
<u>FILTER</u>							
CD101	1-404-684-11	DISCRIMINATOR, CERAMIC					
CF101	1-409-333-00	TRAP, CERAMIC (6.0MHZ)					
CF102	1-527-262-00	CERAMIC FILTER (6.0MHZ)					
<u>DIODE</u>							
D101	8-719-102-68	DIODE RD5.1E-N2					
<u>IC</u>							
IC102	8-759-909-08	IC TDA3541					
IC103	8-759-003-90	IC TBA129					
<u>COIL</u>							
L102	1-404-476-00	COIL, IF					
L103	1-408-397-00	MICRO INDUCTOR 1UH					
L104	1-404-493-00	COIL					
L105	1-404-493-00	COIL					
L106	1-407-690-00	MICRO INDUCTOR 5.6UH					
L107	1-408-410-00	MICRO INDUCTOR 12UH					
L108	1-408-421-00	MICRO INDUCTOR 100UH					
L110	1-408-410-00	MICRO INDUCTOR 12UH					
L111	1-408-411-00	MICRO INDUCTOR 15UH					
L112	1-407-704-00	MICRO INDUCTOR 82UH					
L113	1-408-405-00	MICRO INDUCTOR 4.7UH					
L115	1-408-412-00	MICRO INDUCTOR 18UH					
L118	1-408-409-00	MICRO INDUCTOR 10UH					
L119	1-407-691-00	MICRO INDUCTOR 6.8UH					
				<u>TRANSISTOR</u>			
Q101	8-729-178-54	TRANSISTOR 2SC2785					
Q102	8-729-105-47	TRANSISTOR 2SC2026-L					
Q103	8-729-117-54	TRANSISTOR 2SA1175					
Q106	8-729-178-54	TRANSISTOR 2SC2785					
Q107	8-729-178-54	TRANSISTOR 2SC2785					
				<u>RESISTOR</u>			
R102	1-215-750-91	METAL	3.3K	5%	1/6W		
R103	1-215-750-91	METAL	3.3K	5%	1/6W		
R107	1-215-710-91	METAL	68	5%	1/6W		
R108	1-215-770-91	METAL	22K	5%	1/6W		
R109	1-215-798-91	METAL	330K	5%	1/6W		
R110	1-215-746-91	METAL	2.2K	5%	1/6W		
R111	1-215-746-91	METAL	2.2K	5%	1/6W		
R112	1-215-754-91	METAL	4.7K	5%	1/6W		
R113	1-215-752-91	METAL	3.9K	5%	1/6W		
R114	1-215-734-91	METAL	680	5%	1/6W		
R115	1-215-722-91	METAL	220	5%	1/6W		
R116	1-215-730-91	METAL	470	5%	1/6W		
R117	1-215-776-91	METAL	39K	5%	1/6W		
R118	1-215-762-91	METAL	10K	5%	1/6W		
R119	1-215-770-91	METAL	22K	5%	1/6W		
R120	1-215-778-91	METAL	47K	5%	1/6W		
R121	1-215-750-91	METAL	3.3K	5%	1/6W		
R122	1-215-724-91	METAL	270	5%	1/6W		
R123	1-215-738-91	METAL	1K	5%	1/6W		
R124	1-215-742-91	METAL	1.5K	5%	1/6W		
R125	1-215-762-91	METAL	10K	5%	1/6W		
R126	1-215-762-91	METAL	10K	5%	1/6W		
R127	1-215-726-91	METAL	330	5%	1/6W		
R128	1-215-730-91	METAL	470	5%	1/6W		
R135	1-215-738-91	METAL	1K	5%	1/6W		
R136	1-215-738-91	METAL	1K	5%	1/6W		
R137	1-215-738-91	METAL	1K	5%	1/6W		
R138	1-215-738-91	METAL	1K	5%	1/6W		
R139	1-215-750-91	METAL	3.3K	5%	1/6W		
R140	1-215-730-91	METAL	470	5%	1/6W		
R142	1-215-730-91	METAL	470	5%	1/6W		
R143	1-215-730-91	METAL	470	5%	1/6W		
R144	1-215-734-91	METAL	680	5%	1/6W		
R145	1-215-738-91	METAL	1K	5%	1/6W		
R146	1-215-714-91	METAL	100	5%	1/6W		
R149	1-215-770-91	METAL	22K	5%	1/6W		
R151	1-215-734-91	METAL	680	5%	1/6W		
				<u>VARIABLE RESISTOR</u>			
RV101	1-230-633-51	RES, ADJ, CARBON 47K					
				<u>FILTER</u>			
SWF101	1-404-484-00	FILTER, SURFACE WAVE					



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark	
<u>TUNER</u>				<u>IC</u>				
TU101	1-463-412-00	TUNER, UHF ET (U341)		IC001	8-759-933-45	IC MAB8441P-T060		
*****				IC002	8-759-918-54	IC SAA5230		
*A-1325-023-A V BOARD, COMPLETE (21XRTU ONLY)				IC003	8-759-918-56	IC SAA5240A		
*****				IC004	8-759-206-27	IC TC5564PL-15		
<u>CAPACITOR</u>				<u>COIL</u>				
C001	1-123-333-00	ELECT	100MF	20%	16V	L001	1-408-411-00	MICRO INDUCTOR 15UH
C002	1-123-308-00	ELECT	220MF	20%	6.3V	<u>TRANSISTOR</u>		
C003	1-123-309-00	ELECT	330MF	20%	10V	Q001	8-729-109-53	TRANSISTOR 2SD795A
C004	1-123-332-00	ELECT	47MF	20%	16V	Q002	8-729-805-13	TRANSISTOR 2SC1475-13
C005	1-123-333-00	ELECT	100MF	20%	16V	Q003	8-729-178-54	TRANSISTOR 2SC2785
C006	1-123-321-00	ELECT	220MF	20%	16V	Q004	8-729-178-54	TRANSISTOR 2SC2785
C007	1-123-356-00	ELECT	10MF	20%	16V	Q005	8-729-805-13	TRANSISTOR 2SC1475-13
C008	1-102-951-00	CERAMIC	15PF	5%	50V	Q006	8-729-178-54	TRANSISTOR 2SC2785
C009	1-102-074-00	CERAMIC	0.001MF	10%	50V	Q007	8-729-178-54	TRANSISTOR 2SC2785
C010	1-102-824-21	CERAMIC	470PF	5%	50V	Q008	8-729-178-54	TRANSISTOR 2SC2785
C011	1-110-182-81	MYLAR	0.022MF	10%	250V	Q009	8-729-117-54	TRANSISTOR 2SA1175
C012	1-102-980-00	CERAMIC	270PF	5%	50V	Q010	8-729-117-54	TRANSISTOR 2SA1175
C013	1-102-973-00	CERAMIC	100PF	5%	50V	Q011	8-729-117-54	TRANSISTOR 2SA1175
C014	1-102-951-00	CERAMIC	15PF	5%	50V	<u>RESISTOR</u>		
C015	1-102-961-00	CERAMIC	27PF	5%	50V	R001	1-247-745-11	CARBON 330 5% 1/2W
C016	1-110-190-81	MYLAR	0.01MF	10%	400V	R002	1-215-762-91	METAL 10K 5% 1/6W
C017	1-110-171-81	MYLAR	0.047MF	10%	100V	R003	1-215-778-91	METAL 47K 5% 1/6W
C018	1-102-953-00	CERAMIC	18PF	5%	50V	R004	1-215-867-00	METAL OX IDE 470 5% 1W F
C019	1-110-171-81	MYLAR	0.047MF	10%	100V	R005	1-215-714-91	METAL 100 5% 1/6W
C020	1-102-978-00	CERAMIC	220PF	5%	50V	R006	1-215-738-91	METAL 1K 5% 1/6W
C021	1-110-173-81	MYLAR	0.068MF	10%	100V	R007	1-215-714-91	METAL 100 5% 1/6W
C022	1-102-961-00	CERAMIC	27PF	5%	50V	R008	1-215-726-91	METAL 330 5% 1/6W
C023	1-102-961-00	CERAMIC	27PF	5%	50V	R009	1-215-780-91	METAL 56K 5% 1/6W
C024	1-123-307-00	ELECT	100MF	20%	10V	R010	1-215-754-91	METAL 4.7K 5% 1/6W
C025	1-123-306-00	ELECT	47MF	20%	10V	R011	1-215-754-91	METAL 4.7K 5% 1/6W
C027	1-102-820-00	CERAMIC	330PF	5%	50V	R012	1-215-754-91	METAL 4.7K 5% 1/6W
C028	1-102-116-00	CERAMIC	680PF	10%	50V	R013	1-215-714-91	METAL 100 5% 1/6W
C029	1-123-369-00	ELECT	4.7MF	20%	25V	R014	1-215-714-91	METAL 100 5% 1/6W
C051	1-110-175-81	MYLAR	0.1MF	10%	100V	R015	1-215-810-91	METAL 1M 5% 1/6W
C052	1-110-175-81	MYLAR	0.1MF	10%	100V	R016	1-215-744-91	METAL 1.8K 5% 1/6W
C053	1-110-175-81	MYLAR	0.1MF	10%	100V	R017	1-215-738-91	METAL 1K 5% 1/6W
C054	1-110-175-81	MYLAR	0.1MF	10%	100V	R018	1-215-754-91	METAL 4.7K 5% 1/6W
C055	1-110-175-81	MYLAR	0.1MF	10%	100V	R019	1-215-730-91	METAL 470 5% 1/6W
C056	1-110-175-81	MYLAR	0.1MF	10%	100V	R020	1-215-756-91	METAL 5.6K 5% 1/6W
<u>TRIMMER</u>				R021	1-215-746-91	METAL 2.2K 5% 1/6W		
CT001	1-141-181-11	CAP, TRIMMER		R022	1-215-746-91	METAL 2.2K 5% 1/6W		
<u>DIODE</u>				R023	1-215-738-91	METAL 1K 5% 1/6W		
D001	8-719-100-35	DIODE RD5.6E-B2		R024	1-215-746-91	METAL 2.2K 5% 1/6W		
D002	8-719-100-68	DIODE RD13E-B2		R025	1-215-754-91	METAL 4.7K 5% 1/6W		
D003	8-719-911-19	DIODE 1SS119		R026	1-215-762-91	METAL 10K 5% 1/6W		
D004	8-719-100-19	DIODE RD3.6E-B2		R027	1-215-702-91	METAL 33 5% 1/6W		
D007	8-719-102-78	DIODE RD6.8E-N1		R028	1-215-702-91	METAL 33 5% 1/6W		
				R029	1-215-702-91	METAL 33 5% 1/6W		

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



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R030	1-215-130-00	METAL	120 5% 1/4W	C713	1-102-947-00	CERAMIC	10PF 5% 50V
R031	1-215-130-00	METAL	120 5% 1/4W	C714	1-102-937-00	CERAMIC	4PF 0.25PF 50V
R032	1-215-130-00	METAL	120 5% 1/4W	C715	1-102-937-00	CERAMIC	4PF 0.25PF 50V
R033	1-215-712-91	METAL	82 5% 1/6W	C716	1-123-382-00	ELECT	3.3MF 20% 50V
R034	1-215-738-91	METAL	1K 5% 1/6W	C717	1-123-356-00	ELECT	10MF 20% 16V
R035	1-215-738-91	METAL	1K 5% 1/6W	C718	1-101-006-00	CERAMIC	0.047MF 50V
R036	1-215-714-91	METAL	100 5% 1/6W	C719	1-102-963-00	CERAMIC	33PF 5% 50V
R037	1-215-714-91	METAL	100 5% 1/6W	C720	1-102-963-00	CERAMIC	33PF 5% 50V
R038	1-215-736-91	METAL	820 5% 1/6W	C721	1-102-963-00	CERAMIC	33PF 5% 50V
R039	1-215-754-91	METAL	4.7K 5% 1/6W				
R040	1-215-754-91	METAL	4.7K 5% 1/6W				
R041	1-215-730-91	METAL	470 5% 1/6W				
R042	1-215-762-91	METAL	10K 5% 1/6W				
R043	1-215-754-91	METAL	4.7K 5% 1/6W				
R044	1-215-730-91	METAL	470 5% 1/6W				
R045	1-215-738-91	METAL	1K 5% 1/6W				
		<u>VARIABLE RESISTOR</u>					
RV001	1-230-628-11	RES, ADJ, CARBON	2.2K				
		<u>CONNECTOR</u>					
V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P				
V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM)	5P				
V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM)	6P				
V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)					
V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					
		<u>CRYSTAL</u>					
X001	1-567-162-00	OSCILLATOR, CRYSTAL					
X002	1-567-495-11	OSCILLATOR, CRYSTAL					
X003	1-567-192-11	OSCILLATOR, CERAMIC					

	*A-1330-720-A	C BOARD, COMPLETE					

		<u>CONNECTOR</u>					
C1	*1-506-371-00	2P PLUG (L)					
C2	*1-564-880-31	PLUG, CONNECTOR	3P				
C3	*1-508-766-00	4P PLUG (M)					
C4	*1-564-884-11	PLUG, CONNECTOR	7P				
C6	*1-508-784-00	1P PLUG					
		<u>CAPACITOR</u>					
C701	1-123-947-00	ELECT	10MF 20% 250V				
C702	1-123-356-00	ELECT	10MF 20% 16V				
C703	1-123-356-00	ELECT	10MF 20% 16V				
C704	1-162-114-00	CERAMIC	0.0047MF 2KV				
C705	1-162-116-00	CERAMIC	680PF 10% 2KV				
C708	1-102-116-00	CERAMIC	680PF 10% 50V				
C709	1-102-116-00	CERAMIC	680PF 10% 50V				
C710	1-102-116-00	CERAMIC	680PF 10% 50V				
C712	1-162-583-11	CERAMIC	330PF 10% 400V				
		<u>DIODE</u>					
D701	8-719-911-19	DIODE	1SS119				
D702	8-719-911-19	DIODE	1SS119				
D703	8-719-911-19	DIODE	1SS119				
D704	8-719-911-19	DIODE	1SS119				
D705	8-719-911-19	DIODE	1SS119				
D706	8-719-911-19	DIODE	1SS119				
D708	8-719-911-19	DIODE	1SS119				
D709	8-719-911-19	DIODE	1SS119				
D710	8-719-911-19	DIODE	1SS119				
		<u>JACK</u>					
J701	1-526-798-41	SOCKET, CRT					
		<u>COIL</u>					
L701	1-408-420-00	MICRO INDUCTOR	82UH				
L702	1-410-512-31	MICRO INDUCTOR	18UH				
L703	1-410-331-11	MICRO INDUCTOR	33UH				
L704	1-410-331-11	MICRO INDUCTOR	33UH				
		<u>TRANSISTOR</u>					
Q701	8-729-802-47	TRANSISTOR	2SC3504				
Q702	8-729-802-47	TRANSISTOR	2SC3504				
Q703	8-729-802-47	TRANSISTOR	2SC3504				
Q704	8-729-326-11	TRANSISTOR	2SC2611				
Q705	8-729-326-11	TRANSISTOR	2SC2611				
Q706	8-729-326-11	TRANSISTOR	2SC2611				
Q707	8-729-200-17	TRANSISTOR	2SA1091				
Q708	8-729-200-17	TRANSISTOR	2SA1091				
Q709	8-729-200-17	TRANSISTOR	2SA1091				
Q710	8-729-904-14	TRANSISTOR	BF485-AMMO				
Q711	8-729-904-14	TRANSISTOR	BF485-AMMO				
Q712	8-729-904-14	TRANSISTOR	BF485-AMMO				
Q713	8-729-117-54	TRANSISTOR	2SA1175				
Q714	8-729-900-36	TRANSISTOR	DTC124ES				
Q715	8-729-178-54	TRANSISTOR	2SC2785				
		<u>RESISTOR</u>					
R701	1-247-843-00	CARBON	3.3K 5% 1/6W				
R702	1-249-422-11	CARBON	2.7K 5% 1/6W				
R703	1-249-422-11	CARBON	2.7K 5% 1/6W				
R704	1-214-912-00	METAL	91K 1% 1/2W				
R705	1-214-912-00	METAL	91K 1% 1/2W				

For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- sales@mauritron.co.uk

D3 D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*1-618-128-11	D3 BOARD *****		C014	1-106-196-00	MYLAR	0.01MF 10% 100V
<u>CAPACITOR</u>				C015	1-123-356-00	ELECT	10MF 20% 16V
C1301	1-136-171-00	FILM	0.33MF 5% 50V	C016	1-102-129-00	CERAMIC	0.01MF 10% 50V
C1302	1-136-171-00	FILM	0.33MF 5% 50V	C018	1-123-356-00	ELECT	10MF 20% 50V
C1303	1-102-529-00	CERAMIC	100PF 5% 50V	C019	1-123-356-00	ELECT	10MF 20% 50V
C1304	1-102-529-00	CERAMIC	100PF 5% 50V	C020	1-123-318-00	ELECT	33MF 20% 10V
C1305	1-104-108-11	POLYSTYRENE	330PF 10% 50V	C022	1-106-196-00	MYLAR	0.01MF 10% 100V
C1306	1-102-824-21	CERAMIC	470PF 5% 50V	C025	1-123-356-00	ELECT	10MF 20% 16V
C1307	1-102-824-21	CERAMIC	470PF 5% 50V	C026	1-108-630-91	MYLAR	0.022MF 10% 100V
C1308	1-123-321-00	ELECT	22MF 20% 16V	C027	1-102-973-00	CERAMIC	100PF 5% 50V
C1309	1-123-330-00	ELECT	22MF 20% 16V	C028	1-102-973-00	CERAMIC	100PF 5% 50V
C1310	1-123-318-00	ELECT	33MF 20% 16V	C031	1-162-290-31	CERAMIC	470PF 10% 50V
<u>CONNECTOR</u>				C061	1-136-165-00	FILM	0.1MF 5% 50V
CNJ3	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P		C062	1-101-361-00	CERAMIC	150PF 5% 50V
<u>DIODE</u>				C063	1-123-380-00	ELECT	1MF 20% 50V
D1301	8-719-000-12	DIODE MC931		C271	1-123-343-00	ELECT	33MF 20% 25V
D1302	8-719-000-12	DIODE MC931		C273	1-123-359-00	ELECT	47MF 20% 50V
<u>IC</u>				C274	1-123-364-00	ELECT	1000MF 20% 50V
IC1301	8-759-932-16	IC TDA4565		C275	1-123-343-00	ELECT	33MF 20% 25V
<u>COIL</u>				C276	1-123-359-00	ELECT	47MF 20% 50V
L1301	1-408-423-00	MICRO INDUCTOR 150UH		C278	1-123-349-00	ELECT	1000MF 20% 35V
<u>RESISTOR</u>				C279	1-123-343-00	ELECT	33MF 20% 25V
R1301	1-249-405-11	CARBON	100 5% 1/6W	C280	1-123-349-00	ELECT	1000MF 20% 35V
R1302	1-249-405-11	CARBON	100 5% 1/6W	C281	1-123-360-00	ELECT	100MF 20% 50V
R1303	1-215-423-00	METAL	1.2K 1% 1/6W	C282	1-101-005-00	CERAMIC	0.022MF 50V
R1304	1-249-434-11	CARBON	27K 5% 1/6W	C283	1-101-005-00	CERAMIC	0.022MF 50V
R1305	1-247-859-00	CARBON	15K 5% 1/6W	C284	1-102-973-00	CERAMIC	100PF 5% 50V
*****				C285	1-102-973-00	CERAMIC	100PF 5% 50V
	*A-1345-625-A	D BOARD, COMPLETE *****		C286	1-102-125-00	CERAMIC	0.0047MF 10% 50V
<u>CAPACITOR</u>				C287	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C001	1-123-380-00	ELECT	1MF 20% 50V	C401	1-123-381-00	ELECT	2.2MF 20% 50V
C002	1-123-369-00	ELECT	4.7MF 20% 50V	C402	1-136-165-00	FILM	0.1MF 5% 50V
C003	1-123-369-00	ELECT	4.7MF 20% 50V	C403	1-102-816-00	CERAMIC	120PF 5% 50V
C004	1-102-973-00	CERAMIC	100PF 5% 50V	C406	1-131-373-00	TANTALUM	22MF 10% 16V
C005	1-136-165-00	FILM	0.1MF 5% 50V	C407	1-108-630-91	MYLAR	0.022MF 10% 100V
C006	1-123-356-00	ELECT	10MF 20% 16V	C408	1-102-973-00	CERAMIC	100PF 5% 50V
C007	1-102-820-00	CERAMIC	330PF 5% 50V	C409	1-131-344-00	TANTALUM	0.33MF 10% 35V
C009	1-102-978-00	CERAMIC	220PF 5% 50V	C410	1-123-369-00	ELECT	4.7MF 20% 50V
C010	1-102-514-00	CERAMIC	22PF 5% 50V	C411	1-124-645-11	ELECT	10MF 20% 16V
C011	1-102-525-00	CERAMIC	68PF 5% 50V	C412	1-123-381-00	ELECT	2.2MF 20% 50V
C012	1-123-607-00	ELECT	0.1MF 20% 50V	C413	1-108-630-91	MYLAR	0.022MF 10% 100V
C013	1-102-973-00	CERAMIC	100PF 5% 50V	C414	1-108-630-91	MYLAR	0.022MF 10% 100V
				C415	1-123-369-00	ELECT	4.7MF 20% 50V
				C416	1-124-002-11	ELECT	1MF 20% 50V
				C417	1-131-344-00	TANTALUM	0.33MF 10% 35V
				C418	1-131-344-00	TANTALUM	0.33MF 10% 35V
				C419	1-123-323-00	ELECT	470MF 20% 16V
				C420	1-108-630-91	MYLAR	0.022MF 10% 100V
				C421	1-108-630-91	MYLAR	0.022MF 10% 100V
				C422	1-108-630-91	MYLAR	0.022MF 10% 100V
				C423	1-101-880-00	CERAMIC	47PF 5% 50V
				C424	1-108-630-91	MYLAR	0.022MF 10% 100V
				C425	1-108-630-91	MYLAR	0.022MF 10% 100V

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark	
C426	1-108-630-91	MYLAR	0.022MF 10%	100V	C806	1-108-633-81	MYLAR 0.039MF 10%	100V
C427	1-136-169-00	FILM	0.22MF 5%	50V	C807	1-123-333-00	ELECT 100MF 20%	16V
C428	1-136-169-00	FILM	0.22MF 5%	50V	C808	1-123-333-00	ELECT 100MF 20%	16V
C429	1-136-169-00	FILM	0.22MF 5%	50V	C809	1-123-322-00	ELECT 330MF 20%	16V
C430	1-123-318-00	ELECT	33MF 20%	16V	C810	1-123-024-00	ELECT 33MF	160V
C431	1-123-318-00	ELECT	33MF 20%	16V	C811	1-136-308-11	FILM 0.68MF 5%	200V
C432	1-123-318-00	ELECT	33MF 20%	16V	C812	1-123-943-00	ELECT 1MF 20%	250V
C433	1-106-196-00	MYLAR	0.01MF 10%	100V	C813	1-102-244-00	CERAMIC 220PF 10%	500V
C434	1-123-318-00	ELECT	33MF 20%	16V	C814	1-136-162-00	FILM 0.056MF 5%	50V
C435	1-108-622-91	MYLAR	0.0047MF 10%	100V	C815	1-136-116-00	FILM 1MF 5%	200V
C436	1-123-318-00	ELECT	33MF 20%	16V	C817	1-136-483-11	FILM 0.0095MF 3%	1.4KV
C437	1-102-951-00	CERAMIC	15PF 5%	50V	C818	1-129-721-51	FILM 0.039MF 10%	630V
C438	1-123-321-00	ELECT	220MF 20%	16V	C819	1-161-754-00	CERAMIC 0.001MF 10%	3KV
C501	1-123-356-00	ELECT	10MF 20%	50V	C820	1-106-200-00	MYLAR 0.015MF 10%	100V
C502	1-106-190-00	MYLAR	0.0056MF 10%	100V	C821	1-102-327-11	CERAMIC 330PF 15%	1.5KV
C503	1-136-165-00	FILM	0.1MF 5%	50V	C822	1-102-114-00	CERAMIC 470PF 10%	50V
C504	1-123-332-00	ELECT	47MF 20%	16V	C823	1-108-622-91	MYLAR 0.0047MF 10%	100V
C505	1-130-023-00	FILM	0.0027MF 5%	50V	C824	1-102-157-00	CERAMIC 560PF 10%	500V
C506	1-136-165-00	FILM	0.1MF 5%	50V	FILTER			
C508	1-123-379-00	ELECT	0.47MF 20%	50V	CF001	1-567-686-11	OSCILLATOR, CERAMIC	
C509	1-123-323-00	ELECT	470MF 20%	16V	CONNECTOR			
C511	1-108-614-91	MYLAR	0.001MF 10%	100V	CNP1	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C512	1-124-013-11	ELECT	100MF 20%	16V	CNP2	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C513	1-108-630-91	MYLAR	0.022MF 10%	100V	CNP3	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C514	1-136-171-00	FILM	0.33MF 5%	50V	CNP4	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
C515	1-136-171-00	FILM	0.33MF 5%	50V	D1	*1-564-884-11	PLUG, CONNECTOR 7P	
C516	1-101-361-00	CERAMIC	150PF 5%	50V	D2	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
C517	1-123-380-00	ELECT	1MF 20%	50V	D3	*1-564-881-11	PLUG, CONNECTOR 4P	
C518	1-123-330-00	ELECT	22MF 20%	16V	D4	*1-564-880-31	PLUG, CONNECTOR 3P	
C519	1-136-164-00	FILM	0.082MF 5%	50V	D5	*1-508-766-00	4P PLUG (M)	
C520	1-123-379-00	ELECT	0.47MF 20%	50V	D7	*1-508-765-00	3P PLUG (M)	
C521	1-123-369-00	ELECT	4.7MF 20%	50V	D8	*1-564-883-11	PLUG, CONNECTOR 6P	
C522	1-123-380-00	ELECT	1MF 20%	50V	D9	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
C523	1-108-633-81	MYLAR	0.039MF 10%	100V	D10	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	
C526	1-123-323-00	ELECT	470MF 20%	16V	D11	*1-564-887-11	PLUG, CONNECTOR 10P	
C527	1-123-336-00	ELECT	470MF 20%	25V	D12	*1-564-879-21	PLUG, CONNECTOR 2P	
C529	1-136-165-00	FILM	0.1MF 5%	50V	D13	*1-564-890-11	PLUG, CONNECTOR 13P	
C530	1-123-321-00	ELECT	220MF 20%	16V	D14	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)	
C560	1-129-743-00	FILM	0.022MF 10%	400V	D15	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
C561	1-123-357-00	ELECT	22MF 20%	50V	D16	*1-564-880-31	PLUG, CONNECTOR 3P	
C562	1-102-030-00	CERAMIC	330PF 10%	500V	D17	*1-564-887-31	PLUG, CONNECTOR 10P	
C563	1-123-931-00	ELECT	3.3MF 20%	160V	D18	*1-564-885-11	PLUG, CONNECTOR 8P	
C564	1-102-157-00	CERAMIC	560PF 10%	500V	D19	*1-508-786-00	2P PLUG (M)	
C565	1-106-182-00	MYLAR	0.0027MF 10%	100V	D20	*1-564-883-41	PLUG, CONNECTOR 6P	
C566	1-123-318-00	ELECT	33MF 20%	16V	D21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
C567	1-108-431-00	MYLAR	0.068MF 10%	200V	D25	*1-508-784-00	1P PLUG	
C568	1-123-362-00	ELECT	330MF 20%	50V	D26	*1-508-786-00	2P PLUG (M)	
C569	1-131-348-00	TANTALUM	1.5MF 10%	35V	DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P	
C572	1-123-360-00	ELECT	100MF 20%	50V				
C801	1-123-362-00	ELECT	330MF 20%	50V				
C803	1-106-200-00	MYLAR	0.015MF 10%	100V				
C804	1-123-948-00	ELECT	22MF 20%	250V				
C805	1-162-114-51	CERAMIC	0.0047MF 2KV					

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

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
		<u>DIODE</u>					
D001	8-719-102-60	DIODE RD3.9E-N1		D802	8-719-901-93	DIODE V19E	
D003	8-719-119-19	DIODE 1SS119		D803	8-719-300-65	DIODE ES1F	
D004	8-719-119-19	DIODE 1SS119		D804	8-719-901-93	DIODE V19E	
D005	8-719-119-19	DIODE 1SS119		D805	8-719-901-93	DIODE V19E	
D006	8-719-119-19	DIODE 1SS119		D806	▲ 8-719-906-15	DIODE ERC26-15S	
D007	8-719-119-19	DIODE 1SS119		D807	▲ 8-719-906-15	DIODE ERC26-15S	
D008	8-719-102-68	DIODE RD5.1E-N2		D808	▲ 8-719-900-26	DIODE ERD29-08J	
D009	8-719-101-24	DIODE RD39E-B2				<u>IC</u>	
D011	8-719-102-68	DIODE RD5.1E-N2		IC001	8-759-602-81	IC M50436-511SP	
D015	8-719-102-71	DIODE RD5.6E-N2		IC002	8-759-603-41	IC M58655P	
D016	8-719-119-19	DIODE 1SS119		IC004	8-759-157-40	IC UPC574J	
D017	8-719-119-19	DIODE 1SS119		IC251	8-749-943-62	IC STK-4362	
D271	8-719-119-19	DIODE 1SS119			*4-368-684-01	SPRING (L); IC251	
D401	8-719-119-19	DIODE 1SS119		IC402	8-759-911-10	IC TDA3505	
D402	8-719-119-19	DIODE 1SS119		IC403	8-759-203-71	IC TC74HC4053P	
D403	8-719-119-19	DIODE 1SS119		IC404	8-759-203-71	IC TC74HC4053P	
D404	8-719-119-19	DIODE 1SS119		IC501	8-759-915-46	IC TDA2579	
D405	8-719-119-19	DIODE 1SS119			*4-375-717-01	HEAT SINK, IC; IC501	
D406	8-719-119-19	DIODE 1SS119		IC502	8-759-403-61	IC AN78M12R	
D407	8-719-119-19	DIODE 1SS119				<u>MODULE</u>	
D408	8-719-119-19	DIODE 1SS119		IC401	1-235-534-11	CONTROL MODULE, PICTURE	
D409	8-719-119-19	DIODE 1SS119				<u>COIL</u>	
D412	8-719-119-19	DIODE 1SS119		L001	1-408-413-00	MICRO INDUCTOR 22UH	
D413	8-719-119-19	DIODE 1SS119		L002	1-408-425-00	MICRO INDUCTOR 220UH	
D414	8-719-119-19	DIODE 1SS119		L802	1-421-329-00	COIL, CHOKE	
D415	8-719-119-19	DIODE 1SS119		L803	1-437-090-00	HDT	
D416	8-719-119-19	DIODE 1SS119		L804	1-408-239-00	MICRO INDUCTOR 4.7MMH	
D417	8-719-119-19	DIODE 1SS119		L805	1-459-626-11	HLC	
D418	8-719-119-19	DIODE 1SS119		L806	1-421-329-00	COIL, CHOKE	
D419	8-719-119-19	DIODE 1SS119		L807	1-407-365-00	COIL, CHOKE	
D421	8-719-102-71	DIODE RD5.6E-N2		L808	1-407-365-00	COIL, CHOKE	
D422	8-719-119-19	DIODE 1SS119		L809	1-407-365-00	COIL, CHOKE	
D423	8-719-119-19	DIODE 1SS119		L810	1-459-390-00	COIL (WITH CORE)	
D424	8-719-119-19	DIODE 1SS119				<u>TRANSISTOR</u>	
D425	8-719-119-19	DIODE 1SS119		Q001	8-729-177-33	TRANSISTOR 2SD773-4	
D426	8-719-119-19	DIODE 1SS119		Q002	8-729-117-54	TRANSISTOR 2SA1175	
D427	8-719-119-19	DIODE 1SS119		Q003	8-729-900-63	TRANSISTOR DTA124ES	
D428	8-719-119-19	DIODE 1SS119		Q004	8-729-603-50	TRANSISTOR 2SC403SP	
D501	8-719-119-19	DIODE 1SS119		Q005	8-729-117-54	TRANSISTOR 2SA1175	
D502	8-719-119-19	DIODE 1SS119		Q006	8-729-900-65	TRANSISTOR DTC144ES	
D503	8-719-119-19	DIODE 1SS119		Q011	8-729-178-54	TRANSISTOR 2SC2785	
D504	8-719-119-19	DIODE 1SS119		Q012	8-729-117-54	TRANSISTOR 2SA1175	
D506	8-719-119-19	DIODE 1SS119		Q061	8-729-117-54	TRANSISTOR 2SA1175	
D508	8-719-119-19	DIODE 1SS119		Q401	8-729-178-54	TRANSISTOR 2SC2785	
D509	8-719-119-19	DIODE 1SS119		Q402	8-729-178-54	TRANSISTOR 2SC2785	
D560	8-719-901-93	DIODE V19E		Q403	8-729-178-54	TRANSISTOR 2SC2785	
D561	8-719-901-93	DIODE V19E		Q405	8-729-178-54	TRANSISTOR 2SC2785	
D562	8-719-901-93	DIODE V19E		Q406	8-729-900-80	TRANSISTOR DTC114ES	
D563	8-719-901-93	DIODE V19E					
D564	8-719-119-19	DIODE 1SS119					
D801	8-719-901-93	DIODE V19E					

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

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q407	8-729-178-54	TRANSISTOR 2SC2785		R025	1-249-433-11	CARBON 22K 5% 1/6W	
Q408	8-729-900-65	TRANSISTOR DTC144ES		R026	1-249-417-11	CARBON 1K 5% 1/6W	
Q409	8-729-900-65	TRANSISTOR DTC144ES		R027	1-249-417-11	CARBON 1K 5% 1/6W	
Q410	8-729-900-65	TRANSISTOR DTC144ES		R028	1-249-417-11	CARBON 1K 5% 1/6W	
Q411	8-729-178-54	TRANSISTOR 2SC2785		R029	1-249-417-11	CARBON 1K 5% 1/6W	
Q412	8-729-178-54	TRANSISTOR 2SC2785		R030	1-249-417-11	CARBON 1K 5% 1/6W	
Q413	8-729-178-54	TRANSISTOR 2SC2785		R031	1-249-417-11	CARBON 1K 5% 1/6W	
Q501	8-729-117-54	TRANSISTOR 2SA1175		R032	1-249-417-11	CARBON 1K 5% 1/6W	
Q502	8-729-178-54	TRANSISTOR 2SC2785		R033	1-249-429-11	CARBON 10K 5% 1/6W	
Q504	8-729-117-54	TRANSISTOR 2SA1175		R035	1-249-433-11	CARBON 22K 5% 1/6W	
Q505	8-729-178-54	TRANSISTOR 2SC2785		R036	1-249-429-11	CARBON 10K 5% 1/6W	
Q507	8-729-178-54	TRANSISTOR 2SC2785		R037	1-249-417-11	CARBON 1K 5% 1/6W	
Q508	8-729-900-36	TRANSISTOR DTC124ES		R038	1-249-417-11	CARBON 1K 5% 1/6W	
Q509	8-729-900-36	TRANSISTOR DTC124ES		R039	1-249-417-11	CARBON 1K 5% 1/6W	
Q560	8-729-169-02	TRANSISTOR 2SC2690A-Q		R040	1-249-417-11	CARBON 1K 5% 1/6W	
Q561	8-729-195-82	TRANSISTOR 2SC2958		R041	1-249-417-11	CARBON 1K 5% 1/6W	
Q562	8-729-122-02	TRANSISTOR 2SA1220A-Q		R042	1-249-417-11	CARBON 1K 5% 1/6W	
Q563	8-729-177-43	TRANSISTOR 2SD774		R043	1-249-417-11	CARBON 1K 5% 1/6W	
Q564	8-729-103-43	TRANSISTOR 2SB734		R044	1-249-417-11	CARBON 1K 5% 1/6W	
Q801	8-729-177-43	TRANSISTOR 2SD774		R045	1-249-417-11	CARBON 1K 5% 1/6W	
Q802	8-729-103-43	TRANSISTOR 2SB734		R046	1-249-417-11	CARBON 1K 5% 1/6W	
Q803	8-719-801-06	THYRISTOR S6344G		R047	1-249-417-11	CARBON 1K 5% 1/6W	
	4-365-216-00	SPACER, MICA; Q803		R048	1-249-417-11	CARBON 1K 5% 1/6W	
	*4-368-683-01	SPRING; Q803		R049	1-249-425-11	CARBON 4.7K 5% 1/6W	
Q804	8-729-300-90	TRANSISTOR 2SD1497-06		R050	1-247-700-11	CARBON 100 5% 1/4W	
	4-363-414-00	SPACER, MICA; Q804		R052	1-215-900-11	METAL OXIDE 22K 5% 2W F	
	*4-368-683-01	SPRING; Q804		R053	1-247-819-00	CARBON 330 5% 1/6W	
Q805	8-729-168-82	TRANSISTOR 2SC2688		R054	1-217-387-00	FUSIBLE 10 5% 1/4W F	
				R055	1-247-823-00	CARBON 470 5% 1/6W	
				R056	1-249-417-11	CARBON 1K 5% 1/6W	
				R057	1-249-425-11	CARBON 4.7K 5% 1/6W	
				R058	1-249-425-11	CARBON 4.7K 5% 1/6W	
				R060	1-247-859-00	CARBON 15K 5% 1/6W	
				R061	1-249-437-11	CARBON 47K 5% 1/6W	
				R062	1-247-881-00	CARBON 120K 5% 1/6W	
				R063	1-249-422-11	CARBON 2.7K 5% 1/6W	
				R064	1-247-823-00	CARBON 470 5% 1/6W	
				R065	1-249-435-11	CARBON 33K 5% 1/6W	
				R066	1-249-441-11	CARBON 100K 5% 1/6W	
				R067	1-249-429-11	CARBON 10K 5% 1/6W	
				R068	1-249-429-11	CARBON 10K 5% 1/6W	
				R070	1-247-704-11	CARBON 220 5% 1/4W	
				R071	1-247-823-00	CARBON 470 5% 1/6W	
				R078	1-249-433-11	CARBON 22K 5% 1/6W	
				R079	1-249-434-11	CARBON 27K 5% 1/6W	
				R080	1-249-417-11	CARBON 1K 5% 1/6W	
				R081	1-247-859-00	CARBON 15K 5% 1/6W	
				R082	1-249-425-11	CARBON 4.7K 5% 1/6W	
				R083	1-247-859-00	CARBON 15K 5% 1/6W	
				R084	1-247-843-00	CARBON 3.3K 5% 1/6W	
				R271	1-249-415-11	CARBON 680 5% 1/6W	
				R272	1-249-415-11	CARBON 680 5% 1/6W	
				R273	1-247-823-00	CARBON 470 5% 1/6W	
R001	1-249-437-11	CARBON 47K 5% 1/6W					
R002	1-249-437-11	CARBON 47K 5% 1/6W					
R003	1-249-433-11	CARBON 22K 5% 1/6W					
R004	1-249-433-11	CARBON 22K 5% 1/6W					
R005	1-249-417-11	CARBON 1K 5% 1/6W					
R006	1-247-823-00	CARBON 470 5% 1/6W					
R007	1-247-823-00	CARBON 470 5% 1/6W					
R008	1-247-823-00	CARBON 470 5% 1/6W					
R009	1-249-417-11	CARBON 1K 5% 1/6W					
R011	1-249-425-11	CARBON 4.7K 5% 1/6W					
R012	1-249-425-11	CARBON 4.7K 5% 1/6W					
R013	1-249-433-11	CARBON 22K 5% 1/6W					
R014	1-247-725-11	CARBON 10K 5% 1/4W					
R015	1-249-459-11	CARBON 12K 5% 1/4W					
R016	1-247-725-11	CARBON 10K 5% 1/4W					
R017	1-249-435-11	CARBON 33K 5% 1/6W					
R018	1-249-434-11	CARBON 27K 5% 1/6W					
R019	1-249-429-11	CARBON 10K 5% 1/6W					
R020	1-247-849-00	CARBON 5.6K 5% 1/6W					
R021	1-249-433-11	CARBON 22K 5% 1/6W					
R022	1-249-433-11	CARBON 22K 5% 1/6W					
R023	1-249-429-11	CARBON 10K 5% 1/6W					
R024	1-249-433-11	CARBON 22K 5% 1/6W					

RESISTOR

D

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R274	1-247-823-00	CARBON	470	5%	1/6W	R449	1-247-837-00	CARBON	1.8K	5%	1/6W
R275	1-249-421-11	CARBON	2.2K	5%	1/6W	R450	1-247-837-00	CARBON	1.8K	5%	1/6W
R278	1-249-393-11	CARBON	10	5%	1/6W	R451	1-247-837-00	CARBON	1.8K	5%	1/6W
R279	1-249-393-11	CARBON	10	5%	1/6W	R452	1-247-837-00	CARBON	1.8K	5%	1/6W
R280	1-249-441-11	CARBON	100K	5%	1/6W	R454	1-249-405-11	CARBON	100	5%	1/6W
R281	1-249-429-11	CARBON	10K	5%	1/6W	R455	1-249-405-11	CARBON	100	5%	1/6W
R284	1-247-107-00	CARBON	100	5%	1/4W	R456	1-249-405-11	CARBON	100	5%	1/6W
R285	1-249-429-11	CARBON	10K	5%	1/6W	R457	1-249-417-11	CARBON	1K	5%	1/6W
R287	1-249-441-11	CARBON	100K	5%	1/6W	R458	1-249-417-11	CARBON	1K	5%	1/6W
R288	1-246-523-00	CARBON	120K	5%	1/4W	R459	1-249-417-11	CARBON	1K	5%	1/6W
R289	1-249-437-11	CARBON	47K	5%	1/6W	R460	1-249-417-11	CARBON	1K	5%	1/6W
R401	1-247-843-00	CARBON	3.3K	5%	1/6W	R461	1-249-414-11	CARBON	560	5%	1/6W
R402	1-249-429-11	CARBON	10K	5%	1/6W	R464	1-247-713-11	CARBON	1K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/6W	R465	1-247-711-11	CARBON	680	5%	1/4W
R404	1-247-845-00	CARBON	3.9K	5%	1/6W	R501	1-247-815-00	CARBON	220	5%	1/6W
R405	1-247-823-00	CARBON	470	5%	1/6W	R502	1-249-422-11	CARBON	2.7K	5%	1/6W
R406	1-247-823-00	CARBON	470	5%	1/6W	R503	1-247-823-00	CARBON	470	5%	1/6W
R408	1-249-414-11	CARBON	560	5%	1/6W	R504	1-249-459-11	CARBON	12K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/6W	R505	1-249-425-11	CARBON	4.7K	5%	1/6W
R410	1-246-537-00	CARBON	470K	5%	1/4W	R506	1-247-843-00	CARBON	3.3K	5%	1/6W
R411	1-247-903-00	CARBON	1M	5%	1/6W	R507	1-247-845-00	CARBON	3.9K	5%	1/6W
R412	1-249-440-11	CARBON	82K	5%	1/6W	R508	1-247-849-00	CARBON	5.6K	5%	1/6W
R413	1-247-891-00	CARBON	330K	5%	1/6W	R509	1-247-815-00	CARBON	220	5%	1/6W
R414	1-249-434-11	CARBON	27K	5%	1/6W	R510	1-216-464-11	METAL OX IDE	18K	5%	2W
R415	1-247-885-00	CARBON	180K	5%	1/6W	R511	1-214-763-00	METAL	27K	1%	1/4W
R416	1-249-433-11	CARBON	22K	5%	1/6W	R513	1-247-883-00	CARBON	150K	5%	1/6W
R417	1-249-441-11	CARBON	100K	5%	1/6W	R516	1-246-511-00	CARBON	39K	5%	1/4W
R418	1-249-415-11	CARBON	680	5%	1/6W	R517	1-249-421-11	CARBON	2.2K	5%	1/6W
R419	1-246-527-00	CARBON	180K	5%	1/4W	R519	1-247-700-11	CARBON	100	5%	1/4W
R420	1-249-437-11	CARBON	47K	5%	1/6W	R522	1-247-857-00	CARBON	12K	5%	1/6W
R421	1-249-437-11	CARBON	47K	5%	1/6W	R523	1-249-417-11	CARBON	1K	5%	1/6W
R422	1-247-133-00	CARBON	1.2K	5%	1/4W	R525	1-202-463-00	SOLID	2.2M	5%	1/4W
R423	1-247-803-00	CARBON	68	5%	1/6W	R526	1-202-463-00	SOLID	2.2M	5%	1/4W
R424	1-215-463-00	METAL	56K	1%	1/6W	R527	1-249-405-11	CARBON	100	5%	1/6W
R425	1-247-849-00	CARBON	5.6K	5%	1/6W	R528	1-249-405-11	CARBON	100	5%	1/6W
R428	1-247-857-00	CARBON	12K	5%	1/6W	R529	1-247-833-00	CARBON	1.2K	5%	1/6W
R429	1-249-469-11	CARBON	100K	5%	1/4W	R530	1-247-821-00	CARBON	390	5%	1/6W
R430	1-247-889-00	CARBON	270K	5%	1/6W	R531	1-249-433-11	CARBON	22K	5%	1/6W
R431	1-249-425-11	CARBON	4.7K	5%	1/6W	R532	1-249-422-11	CARBON	2.7K	5%	1/6W
R433	1-247-813-00	CARBON	180	5%	1/6W	R533	1-247-719-11	CARBON	3.3K	5%	1/4W
R434	1-247-813-00	CARBON	180	5%	1/6W	R534	1-215-469-00	METAL	100K	1%	1/6W
R435	1-247-813-00	CARBON	180	5%	1/6W	R535	1-247-177-00	CARBON	82K	5%	1/4W
R436	1-249-437-11	CARBON	47K	5%	1/6W	R536	1-249-417-11	CARBON	1K	5%	1/6W
R437	1-247-708-11	CARBON	470	5%	1/4W	R537	1-247-851-00	CARBON	6.8K	5%	1/6W
R438	1-249-417-11	CARBON	1K	5%	1/6W	R538	1-247-805-00	CARBON	82	5%	1/6W
R440	1-215-394-00	METAL	75	1%	1/6W	R539	1-215-481-00	METAL	330K	1%	1/6W
R441	1-215-394-00	METAL	75	1%	1/6W	R540	1-247-837-00	CARBON	1.8K	5%	1/6W
R442	1-214-702-00	METAL	75	1%	1/4W	R541	1-249-441-11	CARBON	100K	5%	1/6W
R443	1-247-895-00	CARBON	470K	5%	1/6W	R542	1-246-533-00	CARBON	330K	5%	1/4W
R444	1-247-895-00	CARBON	470K	5%	1/6W	R543	1-210-825-00	SOLID	3.3M	5%	1/4W
R445	1-247-895-00	CARBON	470K	5%	1/6W	R544	1-210-825-00	SOLID	3.3M	5%	1/4W
R447	1-247-837-00	CARBON	1.8K	5%	1/6W	R546	1-249-469-11	CARBON	100K	5%	1/4W
R448	1-247-837-00	CARBON	1.8K	5%	1/6W	R549	1-249-417-11	CARBON	1K	5%	1/6W

D D2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R552	1-249-417-11	CARBON	1K 5% 1/6W	RV402	1-230-630-11	RES, ADJ, CARBON 10K	
R560	1-247-107-00	CARBON	100 5% 1/4W F	RV501	1-226-703-00	RES, ADJ, METAL GLAZE 10K	
R561	1-247-161-00	CARBON	18K 5% 1/4W	RV502	1-226-776-00	RES, ADJ, METAL GLAZE 220K	
R562	1-215-869-11	METAL OXIDE	1K 5% 1W F	RV503	1-226-775-00	RES, ADJ, METAL GLAZE 100K	
R563	1-247-690-11	CARBON	15 5% 1/4W F	RV560	1-230-271-00	RES, ADJ, CARBON 4.7K	
R564	1-216-350-11	METAL OXIDE	1.2 5% 1W F	RV801	1-230-271-00	RES, ADJ, CARBON 4.7K	
R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F			<u>SPARK GAP</u>	
R567	1-249-405-11	CARBON	100 5% 1/6W F			SG801 1-519-063-XX	DISCHARGING GAP
R568	1-249-421-11	CARBON	2.2K 5% 1/6W				<u>TRANSFORMER</u>
R569	1-249-393-11	CARBON	10 5% 1/6W F			T801 1-437-090-00	HDT
R570	1-247-711-11	CARBON	680 5% 1/4W				<u>THERMISTOR</u>
R571	1-215-479-00	METAL	270K 1% 1/6W			TH560 1-806-213-00	THERMISTOR
R572	1-247-859-00	CARBON	15K 5% 1/6W			*****	
R573	1-247-819-00	CARBON	330 5% 1/6W			*A-1345-626-A	D2 BOARD, COMPLETE
R574	1-247-787-00	CARBON	15 5% 1/6W				*****
R575	1-247-719-11	CARBON	3.3K 5% 1/4W				<u>FILTER</u>
R576	1-247-688-11	CARBON	10 5% 1/4W			BPF301 1-235-835-11	FILTER, BAND PASS
R577	1-216-354-11	METAL OXIDE	2.7 5% 1W F				<u>CAPACITOR</u>
R580	1-249-399-11	CARBON	33 5% 1/6W F			C309 1-101-004-00	CERAMIC 0.01MF 50V
R583	1-215-872-11	METAL OXIDE	3.3K 5% 1W F			C310 1-106-196-00	MYLAR 0.01MF 10% 100V
R584	1-247-713-11	CARBON	1K 5% 1/4W			C311 1-108-630-91	MYLAR 0.022MF 10% 100V
R585	1-249-382-11	CARBON	1.2 5% 1/6W F			C313 1-123-322-00	ELECT 330MF 20% 16V
R586	1-249-382-11	CARBON	1.2 5% 1/6W F			C314 1-123-380-00	ELECT 1MF 20% 50V
R587	1-216-458-11	METAL OXIDE	1.8K 5% 2W F			C316 1-108-634-81	MYLAR 0.047MF 10% 100V
R588	1-247-383-00	CARBON	150K 5% 1/6W			C317 1-136-173-00	FILM 0.47MF 5% 50V
R589	1-249-417-11	CARBON	1K 5% 1/6W			C320 1-108-630-91	MYLAR 0.022MF 10% 100V
R801	1-247-270-00	CARBON	18K 5% 1/2W			C323 1-102-074-00	CERAMIC 0.001MF 10% 50V
R802	△1-249-448-51	CARBON	1.2 5% 1/4W F			C325 1-101-004-00	CERAMIC 0.01MF 50V
R803	△1-215-883-51	METAL OXIDE	33 5% 2W F			C329 1-102-662-00	CERAMIC 7PF 0.5PF 50V
R804	1-216-378-11	METAL OXIDE	5.6 5% 2W F			C330 1-102-662-00	CERAMIC 7PF 0.5PF 50V
R805	△1-249-448-51	CARBON	1.2 5% 1/4W F				<u>CONNECTOR</u>
R806	1-246-537-00	CARBON	470K 5% 1/4W			CNJ2 *1-562-370-21	CONNECTOR, BOARD TO BOARD 18P
R807	△1-215-869-51	METAL OXIDE	1K 5% 1W F				<u>TRIMMER</u>
R808	1-202-845-00	SOLID	390K 10% 1/2W			CT301 1-141-181-11	CAP, TRIMMER
R809	1-202-826-00	SOLID	4.7K 10% 1/2W				<u>DIODE</u>
R810	1-202-824-00	SOLID	3.3K 10% 1/2W			D306 8-719-000-12	DIODE MC931
R811	1-217-430-00	FUSIBLE	4.7 5% 1/2W F				<u>DELAY LINE</u>
R812	1-249-448-11	CARBON	1.2 5% 1/4W F			DL301 1-415-185-12	DELAY LINE (1H)
R813	1-217-430-00	FUSIBLE	4.7 5% 1/2W F				
R814	1-244-925-00	CARBON	150K 5% 1/2W				
R815	1-215-884-11	METAL OXIDE	47 5% 2W F				
R816	1-215-870-11	METAL OXIDE	1.5K 5% 1W F				
R817	1-207-678-00	WIREWOUND	10 10% 5W F				
R818	1-207-678-00	WIREWOUND	10 10% 5W F				
R819	1-246-523-00	CARBON	120K 5% 1/4W				
R820	1-247-803-00	CARBON	68 5% 1/6W				
R821	1-247-137-00	CARBON	1.8K 5% 1/4W				
R822	1-247-749-11	CARBON	560 5% 1/2W F				
R823	1-216-345-11	METAL OXIDE	0.47 5% 1W F				
R825	1-216-348-00	METAL OXIDE	0.82 5% 1W F				
		<u>VARIABLE RESISTOR</u>					
RV401	1-230-630-11	RES, ADJ, CARBON 10K					

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

D2 H1 H2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>IC</u>				<u>CONNECTOR</u>			
IC301	8-759-925-01	IC TDA4510		CN1401	1-507-806-00	JACK	
<u>COIL</u>				H1	*1-564-886-11	PLUG, CONNECTOR 9P	
L303	1-404-554-11	COIL		H2	*1-564-887-11	PLUG, CONNECTOR 10P	
L304	1-408-408-00	MICRO INDUCTOR 8.2UH		H3	*1-564-883-11	PLUG, CONNECTOR 6P	
L309	1-404-495-00	COIL		<u>DIODE</u>			
L310	1-408-423-00	MICRO INDUCTOR 150UH		D1401	8-719-812-41	DIODE TLR124	
<u>TRANSISTOR</u>				<u>RESISTOR</u>			
Q301	8-729-178-54	TRANSISTOR 2SC2785		R1401	1-247-869-00	CARBON 39K 5% 1/6W	
Q315	8-729-178-54	TRANSISTOR 2SC2785		R1402	1-249-433-11	CARBON 22K 5% 1/6W	
<u>RESISTOR</u>				R1406	1-247-708-11	CARBON 470 5% 1/4W	
R303	1-247-821-00	CARBON 390 5% 1/6W		R1407	1-247-708-11	CARBON 470 5% 1/4W	
R304	1-247-821-00	CARBON 390 5% 1/6W		R1408	1-249-425-11	CARBON 4.7K 5% 1/6W	
R305	1-247-133-00	CARBON 1.2K 5% 1/4W		R1409	1-249-421-11	CARBON 2.2K 5% 1/6W	
R306	1-249-425-11	CARBON 4.7K 5% 1/6W		<u>VARIABLE RESISTOR</u>			
R312	1-247-125-00	CARBON 560 5% 1/4W		RV1401	1-230-916-11	RES, VAR, CARBON 10K	
R315	1-249-437-11	CARBON 47K 5% 1/6W		RV1402	1-230-916-11	RES, VAR, CARBON 10K	
R320	1-247-829-00	CARBON 820 5% 1/6W		RV1403	1-230-916-11	RES, VAR, CARBON 10K	
R322	1-247-817-00	CARBON 270 5% 1/6W		RV1405	1-230-916-11	RES, VAR, CARBON 10K	
R324	1-249-405-11	CARBON 100 5% 1/6W		RV1406	1-230-916-11	RES, VAR, CARBON 10K	
R331	1-249-417-11	CARBON 1K 5% 1/6W		<u>SWITCH</u>			
R332	1-249-417-11	CARBON 1K 5% 1/6W		S1401	1-554-804-11	SWITCH, PUSH (1 KEY)	
R339	1-249-433-11	CARBON 22K 5% 1/6W		S1402	1-554-804-11	SWITCH, PUSH (1 KEY)	
R356	1-247-887-00	CARBON 220K 5% 1/6W		S1403	1-554-804-11	SWITCH, PUSH (1 KEY)	
R357	1-247-887-00	CARBON 220K 5% 1/6W		S1404	1-554-804-11	SWITCH, PUSH (1 KEY)	
R358	1-249-433-11	CARBON 22K 5% 1/6W		S1405	1-554-804-11	SWITCH, PUSH (1 KEY)	
R369	1-249-417-11	CARBON 1K 5% 1/6W		S1406	1-554-804-11	SWITCH, PUSH (1 KEY)	
<u>VARIABLE RESISTOR</u>				S1407	1-554-804-11	SWITCH, PUSH (1 KEY)	
RV301	1-230-624-51	RES, ADJ, CARBON 220		S1408	1-554-804-11	SWITCH, PUSH (1 KEY)	
<u>THERMISTOR</u>				S1409	1-554-804-11	SWITCH, PUSH (1 KEY)	
TH301	1-800-644-00	THERMISTOR		S1411	1-554-804-11	SWITCH, PUSH (1 KEY)	
<u>CRYSTAL</u>				*****			
X301	1-527-789-00	VINRATOR, CRYSTAL		*1-617-746-11	H2 BOARD	*****	
*****				<u>DIODE</u>			
*1-617-747-11	H1 BOARD	*****		D01	8-719-800-94	DIODE TLUR144	
*4-380-621-01	HOLDER (B), LED			*4-380-613-01	HOLDER (A), LED; D01		
<u>CAPACITOR</u>				D02	8-719-812-41	DIODE TLR124	
C1401	1-123-356-00	ELECT 10MF 20% 16V		*4-337-478-00	HOLDER (F), LED; D02		
*****				D03	8-719-812-41	DIODE TLR124	
*****				*4-337-478-00	HOLDER (F), LED; D03		
*****				.D04	*4-337-478-00	HOLDER (F), LED	
*****				D05	*4-337-478-00	HOLDER (F), LED	
*****				D06	8-719-911-19	DIODE 1SS119	
*****				D07	8-719-911-19	DIODE 1SS119	

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- sales@mauritron.co.uk

H2 **J1**

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>IC</u>				C1252	1-123-307-00	ELECT 100MF	20% 10V
IC01	8-741-138-70	IC BX-1387		C1253	1-123-307-00	ELECT 100MF	20% 10V
*****				C1254	1-102-976-00	CERAMIC 180PF	5% 50V
*A-1371-192-A	J1 BOARD, COMPLETE	*****		C1255	1-123-332-00	ELECT 47MF	20% 16V
<u>CAPACITOR</u>				C1256	1-108-634-81	MYLAR 0.047MF	10% 100V
C1201	1-123-379-00	ELECT 0.47MF	20% 50V	C1257	1-123-332-00	ELECT 47MF	20% 16V
C1202	1-102-824-21	CERAMIC 470PF	5% 50V	C1258	1-123-332-00	ELECT 47MF	20% 16V
C1203	1-102-824-21	CERAMIC 470PF	5% 50V	C1259	1-123-333-00	ELECT 100MF	20% 16V
C1204	1-123-332-00	ELECT 47MF	20% 16V	C1260	1-108-630-91	MYLAR 0.022MF	10% 100V
C1205	1-123-332-00	ELECT 47MF	20% 16V	C1261	1-108-630-91	MYLAR 0.022MF	10% 100V
C1206	1-123-379-00	ELECT 0.47MF	20% 50V	<u>DIODE</u>			
C1207	1-102-824-21	CERAMIC 470PF	5% 50V	D1201	8-719-102-81	DIODE RD7.5E-N2	
C1208	1-102-824-21	CERAMIC 470PF	5% 50V	D1202	8-719-102-81	DIODE RD7.5E-N2	
C1209	1-123-330-00	ELECT 22MF	20% 16V	D1203	8-719-102-81	DIODE RD7.5E-N2	
C1210	1-123-380-00	ELECT 1MF	20% 50V	D1204	8-719-102-81	DIODE RD7.5E-N2	
C1211	1-123-330-00	ELECT 22MF	20% 16V	D1205	8-719-102-81	DIODE RD7.5E-N2	
C1212	1-123-380-00	ELECT 1MF	20% 50V	D1206	8-719-102-81	DIODE RD7.5E-N2	
C1213	1-102-824-21	CERAMIC 470PF	5% 50V	D1207	8-719-000-12	DIODE MC931	
C1214	1-123-380-00	ELECT 1MF	20% 50V	D1208	8-719-000-12	DIODE MC931	
C1215	1-102-074-00	CERAMIC 0.001MF	10% 50V	D1209	8-719-815-55	DIODE 1S1555	
C1216	1-102-824-21	CERAMIC 470PF	5% 50V	D1210	8-719-000-12	DIODE MC931	
C1217	1-123-380-00	ELECT 1MF	20% 50V	D1211	8-719-000-12	DIODE MC931	
C1218	1-102-074-00	CERAMIC 0.001MF	10% 50V	D1212	8-719-000-12	DIODE MC931	
C1219	1-123-307-00	ELECT 100MF	20% 10V	D1213	8-719-102-81	DIODE RD7.5E-N2	
C1220	1-123-307-00	ELECT 100MF	20% 10V	D1214	8-719-102-81	DIODE RD7.5E-N2	
C1221	1-123-307-00	ELECT 100MF	20% 10V	D1215	8-719-000-06	DIODE MC921	
C1222	1-108-634-81	MYLAR 0.047MF	10% 100V	D1216	8-719-911-19	DIODE 1SS119	
C1223	1-108-634-81	MYLAR 0.047MF	10% 100V	D1217	8-719-911-19	DIODE 1SS119	
C1224	1-108-614-91	MYLAR 0.001MF	10% 100V	D1218	8-719-911-19	DIODE 1SS119	
C1225	1-123-321-00	ELECT 220MF	20% 16V	D1219	8-719-911-19	DIODE 1SS119	
C1226	1-123-321-00	ELECT 47MF	20% 16V	D1220	8-719-815-55	DIODE 1S1555	
C1227	1-123-321-00	ELECT 100MF	20% 10V	D1221	8-719-102-97	DIODE RD12E-N2	
C1228	1-108-634-81	MYLAR 0.047MF	10% 100V	D1222	8-719-102-97	DIODE RD12E-N2	
C1229	1-108-614-91	MYLAR 0.001MF	10% 100V	D1223	8-719-911-19	DIODE 1SS119	
C1230	1-123-380-00	ELECT 1MF	20% 50V	D1224	8-719-911-19	DIODE 1SS119	
C1231	1-123-333-00	ELECT 100MF	20% 16V	D1225	8-719-815-55	DIODE 1S1555	
C1232	1-108-632-81	MYLAR 0.033MF	10% 100V	<u>IC</u>			
C1233	1-123-379-00	ELECT 0.47MF	20% 50V	IC1201	8-759-914-76	IC CX20199	
C1234	1-123-379-00	ELECT 0.47MF	20% 50V	IC1202	8-759-145-58	IC UPC4558C	
C1235	1-123-381-00	ELECT 2.2MF	20% 50V	<u>CONNECTOR</u>			
C1236	1-108-622-91	MYLAR 0.0047MF	10% 100V	CN1201	1-561-534-41	SOCKET 21P	
C1237	1-123-381-00	ELECT 2.2MF	20% 50V	CN1202	1-561-534-41	SOCKET 21P	
C1238	1-108-622-91	MYLAR 0.0047MF	10% 100V	CN1203	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT	
C1239	1-108-622-91	MYLAR 0.0047MF	10% 100V	J1	*1-564-899-31	PLUG, CONNECTOR 10P	
C1240	1-108-630-91	MYLAR 0.022MF	10% 100V	J2	*1-564-897-11	PLUG, CONNECTOR 8P	
C1241	1-108-630-91	MYLAR 0.022MF	10% 100V	J3	*1-564-895-21	PLUG, CONNECTOR 6P	
C1242	1-123-380-00	ELECT 1MF	20% 50V	J4	*1-564-891-11	PLUG, CONNECTOR 2P	
C1250	1-123-332-00	ELECT 47MF	20% 16V	J5	*1-564-891-31	PLUG, CONNECTOR 2P	
C1251	1-102-976-00	CERAMIC 180PF	5% 50V	J6	*1-564-895-21	PLUG, CONNECTOR 6P	
				J7	*1-564-894-11	PLUG, CONNECTOR 5P	

J1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
J8	*1-564-895-21	PLUG, CONNECTOR 6P		R1222	1-249-434-11	CARBON 27K 5%	1/6W
	<u>COIL</u>			R1223	1-249-434-11	CARBON 27K 5%	1/6W
L1201	1-459-407-00	COIL, FERRITE CHOKE		R1224	1-247-805-00	CARBON 82 5%	1/6W
L1202	1-459-407-00	COIL, FERRITE CHOKE		R1225	1-247-700-11	CARBON 100 5%	1/4W
	<u>TRANSISTOR</u>			R1226	1-249-405-11	CARBON 100 5%	1/6W
Q1203	8-729-117-54	TRANSISTOR 2SA1175		R1227	1-247-811-00	CARBON 150 5%	1/6W
Q1204	8-729-178-54	TRANSISTOR 2SC1785		R1230	1-249-405-11	CARBON 100 5%	1/6W
Q1205	8-729-117-54	TRANSISTOR 2SA1175		R1231	1-215-394-00	METAL 75 1%	1/6W
Q1206	8-729-117-54	TRANSISTOR 2SA1175		R1232	1-249-429-11	CARBON 10K 5%	1/6W
Q1207	8-729-900-65	TRANSISTOR DTA144ES		R1233	1-249-429-11	CARBON 10K 5%	1/6W
Q1208	8-729-178-54	TRANSISTOR 2SC2785		R1234	1-249-434-11	CARBON 27K 5%	1/6W
Q1209	8-729-117-54	TRANSISTOR 2SA1175		R1235	1-249-434-11	CARBON 27K 5%	1/6W
Q1210	8-729-117-54	TRANSISTOR 2SA1175		R1236	1-247-700-11	CARBON 100 5%	1/4W
Q1211	8-729-178-54	TRANSISTOR 2SC2785		R1237	1-247-725-11	CARBON 10K 5%	1/4W
Q1212	8-729-178-54	TRANSISTOR 2SC2785		R1238	1-247-725-11	CARBON 10K 5%	1/4W
Q1213	8-729-900-89	TRANSISTOR DTC144ES		R1239	1-247-725-11	CARBON 10K 5%	1/4W
Q1214	8-729-900-89	TRANSISTOR DTC144ES		R1240	1-247-107-00	CARBON 100 5%	1/4W
Q1215	8-729-117-54	TRANSISTOR 2SA1175		R1241	1-247-721-11	CARBON 4.7K 5%	1/4W
Q1216	8-729-117-54	TRANSISTOR 2SA1175		R1242	1-249-425-11	CARBON 4.7K 5%	1/6W
Q1217	8-729-178-54	TRANSISTOR 2SC1785		R1243	1-249-417-11	CARBON 1K 5%	1/6W
Q1218	8-729-178-54	TRANSISTOR 2SC1785		R1244	1-249-419-11	CARBON 1.5K 5%	1/6W
Q1219	8-729-900-89	TRANSISTOR DTC144ES		R1245	1-247-903-00	CARBON 1M 5%	1/6W
Q1220	8-729-900-89	TRANSISTOR DTC144ES		R1246	1-249-429-11	CARBON 10K 5%	1/6W
Q1221	8-729-117-54	TRANSISTOR 2SA1175		R1247	1-249-419-11	CARBON 1.5K 5%	1/6W
Q1222	8-729-900-36	TRANSISTOR DTC124ES		R1248	1-249-417-11	CARBON 1K 5%	1/6W
Q1223	8-729-178-54	TRANSISTOR 2SC2785		R1249	1-249-437-11	CARBON 47K 5%	1/6W
Q1224	8-729-178-54	TRANSISTOR 2SC2785		R1250	1-249-429-11	CARBON 10K 5%	1/6W
	<u>RESISTOR</u>			R1251	1-247-721-11	CARBON 4.7K 5%	1/4W
R1201	1-247-895-00	CARBON 470K 5%	1/6W	R1252	1-249-437-11	CARBON 47K 5%	1/6W
R1202	1-246-507-00	CARBON 27K 5%	1/4W	R1253	1-249-437-11	CARBON 47K 5%	1/6W
R1203	1-249-437-11	CARBON 47K 5%	1/6W	R1254	1-247-698-11	CARBON 68 5%	1/4W
R1204	1-247-823-00	CARBON 470 5%	1/6W	R1255	1-247-795-00	CARBON 33 5%	1/6W
R1205	1-249-437-11	CARBON 47K 5%	1/6W	R1256	1-249-425-11	CARBON 4.7K 5%	1/6W
R1206	1-247-823-00	CARBON 470 5%	1/6W	R1257	1-249-425-11	CARBON 4.7K 5%	1/6W
R1207	1-249-429-11	CARBON 10K 5%	1/6W	R1258	1-247-843-00	CARBON 3.3K 5%	1/6W
R1208	1-249-429-11	CARBON 10K 5%	1/6W	R1259	1-247-843-00	CARBON 3.3K 5%	1/6W
R1209	1-247-805-00	CARBON 82 5%	1/6W	R1260	1-247-698-11	CARBON 68 5%	1/4W
R1210	1-247-805-00	CARBON 82 5%	1/6W	R1261	1-215-394-00	METAL 75 1%	1/6W
R1211	1-247-895-00	CARBON 470K 5%	1/6W	R1262	1-249-417-11	CARBON 1K 5%	1/6W
R1212	1-249-434-11	CARBON 27K 5%	1/6W	R1263	1-247-845-00	CARBON 3.9K 5%	1/6W
R1213	1-247-805-00	CARBON 82 5%	1/6W	R1264	1-247-853-00	CARBON 8.2K 5%	1/6W
R1214	1-247-829-00	CARBON 820 5%	1/6W	R1265	1-247-853-00	CARBON 8.2K 5%	1/6W
R1215	1-249-434-11	CARBON 27K 5%	1/6W	R1266	1-247-845-00	CARBON 3.9K 5%	1/6W
R1216	1-249-433-11	CARBON 22K 5%	1/6W	R1267	1-215-394-00	METAL 75 1%	1/6W
R1217	1-247-829-00	CARBON 820 5%	1/6W	R1268	1-247-795-00	CARBON 33 5%	1/6W
R1218	1-249-434-11	CARBON 27K 5%	1/6W	R1269	1-247-843-00	CARBON 3.3K 5%	1/6W
R1219	1-247-163-00	CARBON 22K 5%	1/4W	R1270	1-249-435-11	CARBON 33K 5%	1/6W
R1220	1-249-437-11	CARBON 47K 5%	1/6W	R1271	1-249-435-11	CARBON 33K 5%	1/6W
R1221	1-249-437-11	CARBON 47K 5%	1/6W	R1272	1-247-843-00	CARBON 3.3K 5%	1/6W
				R1273	1-249-414-11	CARBON 560 5%	1/6W
				R1274	1-247-698-11	CARBON 68 5%	1/4W
				R1275	1-247-843-00	CARBON 3.3K 5%	1/6W
				R1276	1-247-845-00	CARBON 3.9K 5%	1/6W

J1

Ref.No.	Part No.	Description	Remark
R1277	1-247-688-11	CARBON 10 5% 1/4W	
R1278	1-249-429-11	CARBON 10K 5% 1/6W	
R1279	1-247-708-11	CARBON 470 5% 1/4W	
R1280	1-249-425-11	CARBON 4.7K 5% 1/6W	
R1281	1-249-425-11	CARBON 4.7K 5% 1/6W	
R1282	1-249-429-11	CARBON 10K 5% 1/6W	
R1283	1-249-441-11	CARBON 100K 5% 1/6W	
R1284	1-247-721-11	CARBON 4.7K 5% 1/4W	
R1285	1-247-823-00	CARBON 470 5% 1/6W	
R1286	1-247-823-00	CARBON 470 5% 1/6W	

MISCELLANEOUS

RV901	△.1-237-286-11	RESISTOR ASSY, HIGH-VOLTAGE	
T802	△.1-439-387-11	TRANSFORMER ASSY, FLYBACK	
	△.1-451-290-11	DEFLECTION YOKE (SY-153F)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	1-452-277-00	MAGNET, BMC	
	1-503-642-11	SPEAKER	
	△.1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)	
	△.1-557-124-12	CORD, AC (3 CORE)	
	1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)	
	8-719-920-56	DIODE DHG3A120S-T	
	8-719-920-57	DIODE DHG3C160S-T	
	8-719-920-58	DIODE DHG3D200S-T	
L901	△.1-426-280-11	COIL, DEMAGNETIZATION	
V901	△.8-736-954-05	CRT (A51JKQ60X)	

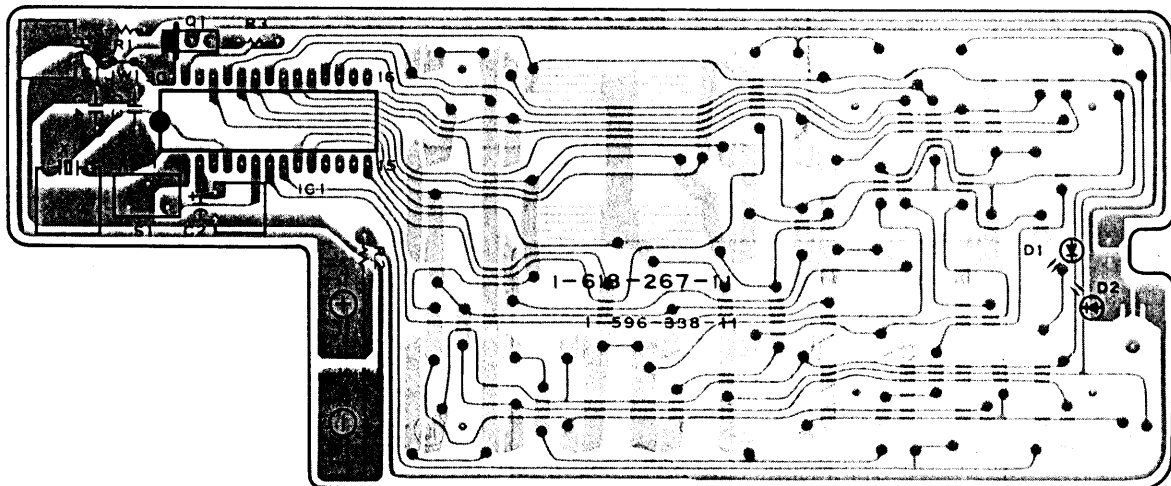
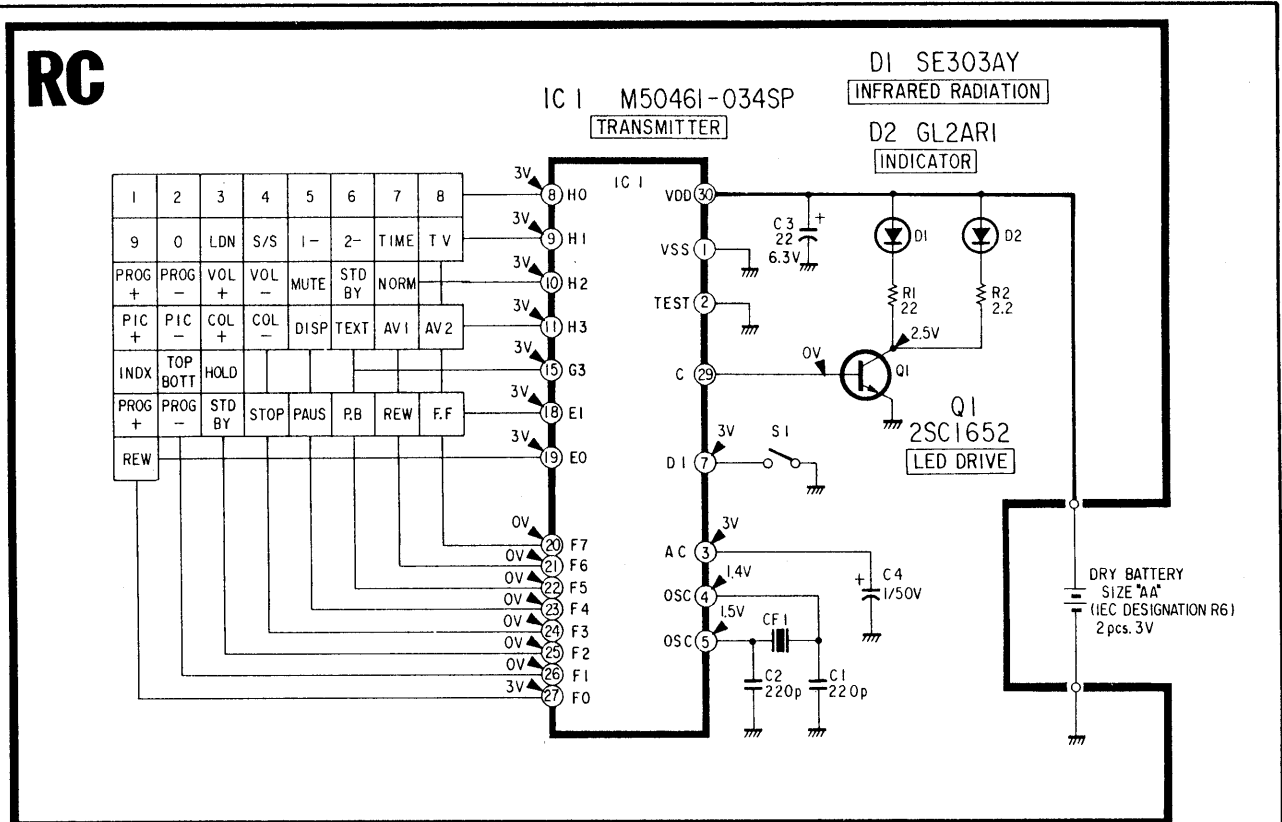
ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-735-A	COMMANDER ASSY (RM-661)	
X-4380-608-1	CASE ASSY, UPPER	
4-372-838-01	FILTER	
4-374-179-01	COVER, BATTERY	
4-374-183-01	CASE, LOWER	
4-377-015-01	BAG, PROTECTION	
*4-380-602-01	CUSHION (UPPER) (ASSY)	
*4-380-603-01	CUSHION (LOWER) (ASSY)	
*4-380-604-01	INDIVIDUAL CARTON	
4-380-646-01	SHEET, SILICON RUBBER	
4-482-253-41	MANUAL, INSTRUCTION	

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

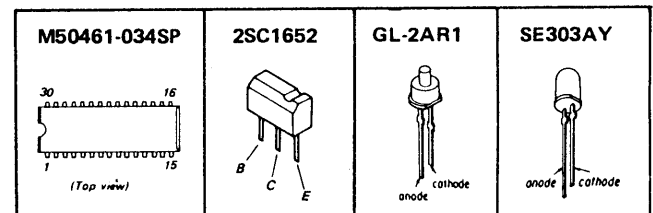
SECTION 8
RM-661 REMOTE COMMANDER

8-1 SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

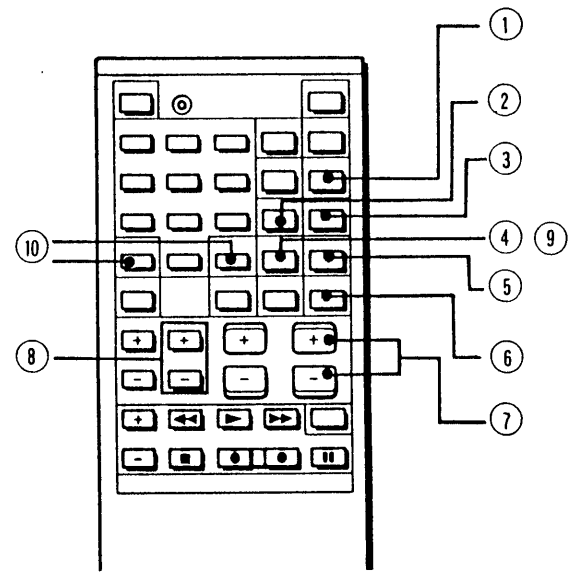
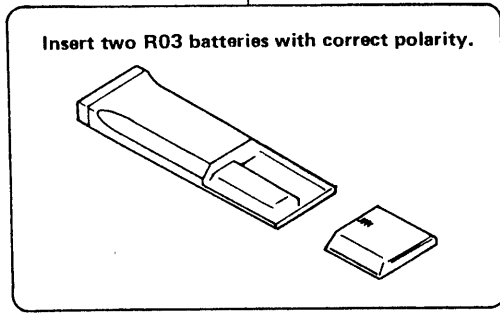
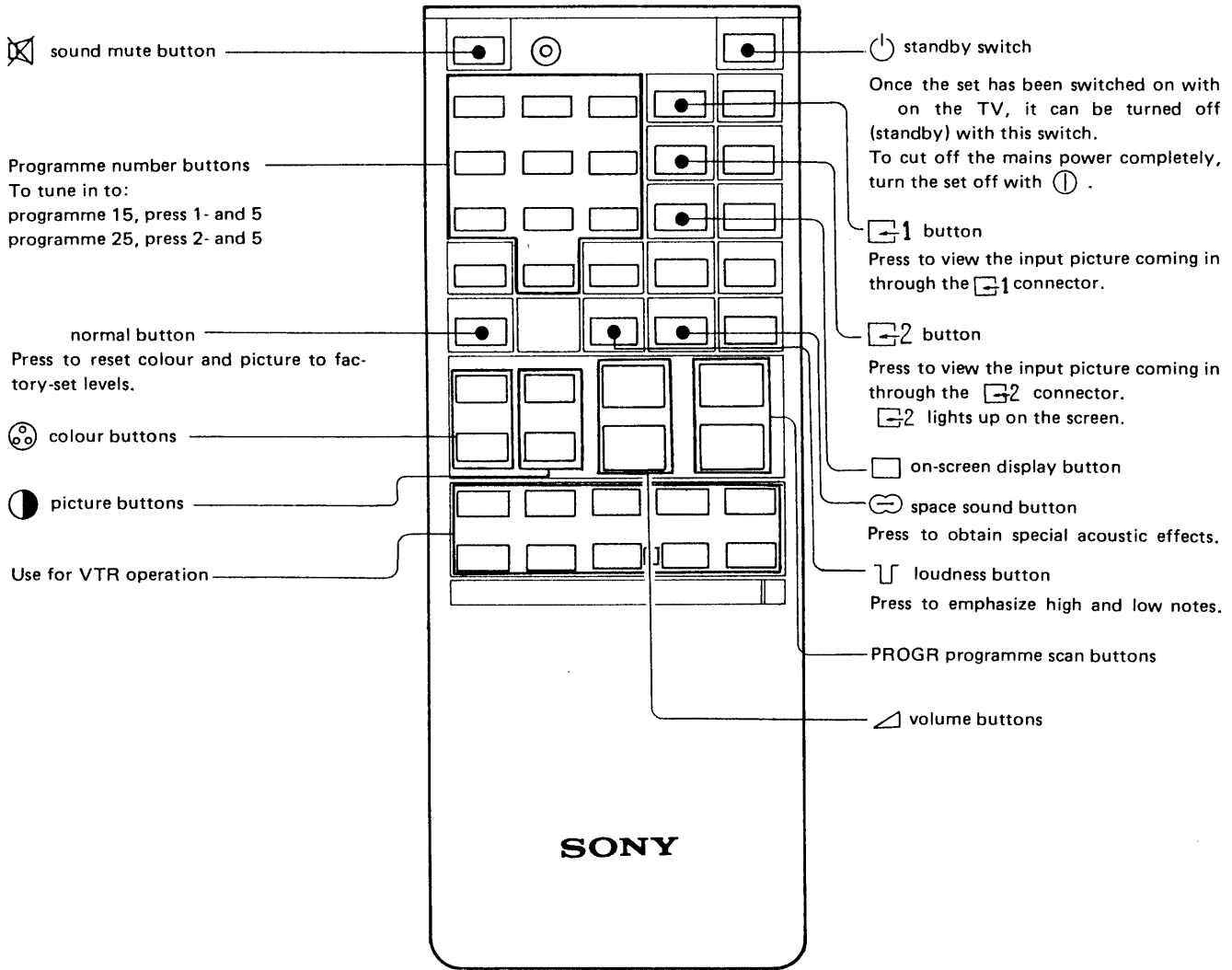


● SEMICONDUCTORS

- All capacitors are in μF unless otherwise noted. pF: μM F 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k: 1000 Ω , M: 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.



8-2 POINT TOWARDS THE REMOTE CONTROL DETECTOR.



VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons used for teletext operation are indicated in green.

Operation

- 1 Select the TV channel for the desired teletext service.
- 2 Press TEXT/MIX to display the teletext service.
Once TEXT/MIX has been pressed, the TV channel cannot be changed.
- 3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then, re-enter the correct page number.
The requested teletext page is displayed.

To return to the TV mode, press TV.

The teletext service can be displayed directly from the standby mode, by pressing TEXT/MIX.

To receive the teletext service of a different TV channel

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press TEXT/MIX.

Note

To receive the teletext service accurately, keep AFT inside the panel switched on during teletext operation.

① To superimpose the teletext display on the TV picture

Press TEXT/MIX.
Press again to return to the TEXT display.

② To reveal concealed information such as the answers to a quiz

Press REVEAL
Press again to conceal the answers.

③ To prevent a teletext page (subpage) from being updated/changed

Press HOLD. "HOLD" appears at the top of the screen.

P102 HOLD

To resume normal teletext reception, press TEXT/MIX.

④ To suppress the teletext display so that the TV picture is displayed

Press TEXT CL.
This button can be operated from both the TEXT and MIX displays.

⑤ To enlarge the teletext display

Press \square / \square / \blacksquare .
Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.

⑥ To display the index page

Press INDEX.
If the necessary signal is not being broadcast, page 100 is displayed.

⑦ To rapidly access the next or preceding page

Press PAGE + or PAGE -.

⑧ To adjust the contrast of the teletext display

Press \odot .

⑨ To watch the TV programme while waiting for a requested page to be displayed

- 1 Request new page.
- 2 Press TEXT CL to watch the TV programme. The requested page number appears at the top left of the screen.
When the requested page has been captured, "FOUND" (or if the requested page is a subpage, "UPDATE") appears at the top of the screen.

P101 FOUND

To view this page, press TEXT/MIX.

⑩ To have a requested page displayed at a predetermined time

- 1 Request a time coded page (e.g. alarm page).
- 2 Press TP ON
"T**:**" appears at the top of the screen.

P196 T**:**

- 3 Enter your request time with the number buttons, using four digits. For example, 07:30.

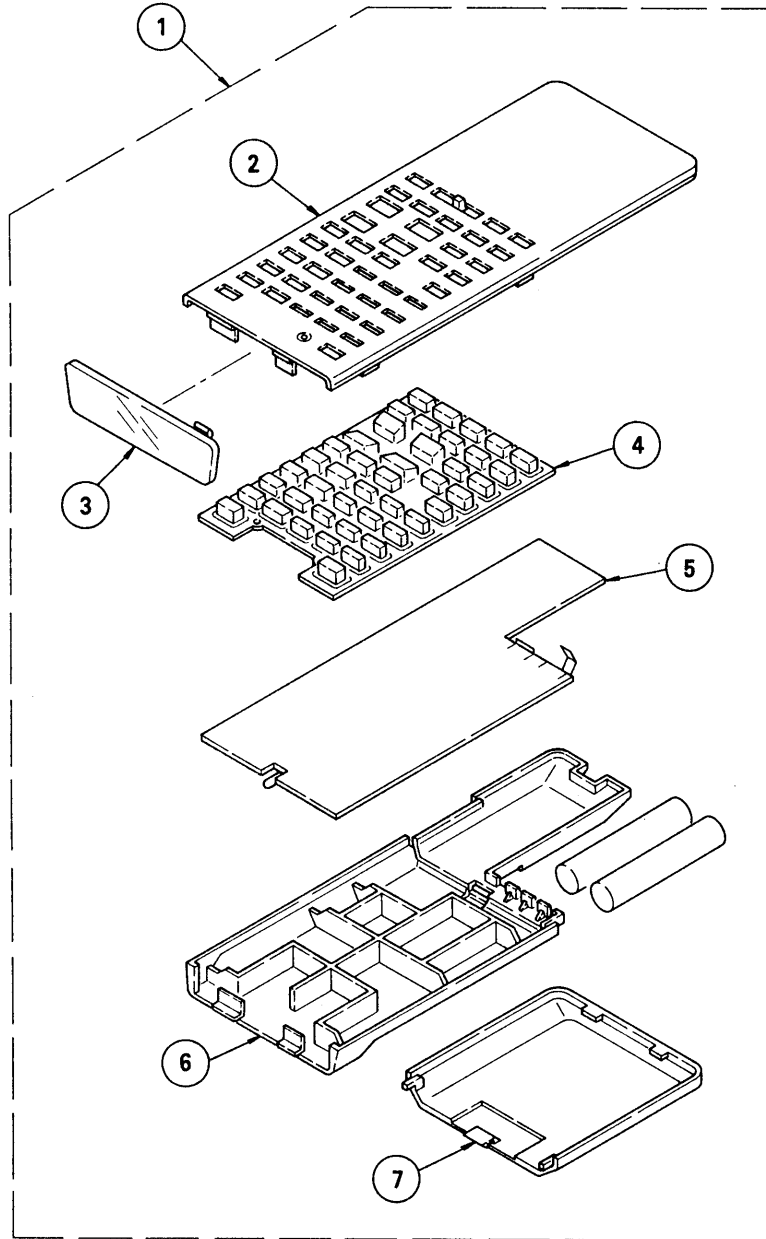
P196 T07:30

To watch the TV programme until the requested time, press TEXT CL. At the requested time, "FOUND" (or if the requested page is a subpage, "UPDATE") appears on the screen. To view this page, press TEXT/MIX.
To cancel the request, first ensure that the teletext page is displayed, then press TP OFF.

8-3 EXPLODED VIEW

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.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	A-1470-735-A	COMMANDER ASSY (RM-661)	2-7	5	*1-618-267-11	RC BOARD	
2	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE		6	4-374-183-01	CASE, LOWER	
3	4-372-838-01	FILTER		7	4-374-179-01	COVER, BATTERY	
4	4-380-646-01	SHEET, SILICON RUBBER					

RC**ELECTRICAL PARTS LIST**

- 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.

CAPACITORS

- MF : μ F, PF : μ μ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS

- MMH : mH, UH : μ H

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

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>		
	*1-618-267-11	RC BOARD *****			
	4-350-924-00	TERMINAL (B), BATTERY			
	4-372-835-01	TERMINAL (A), BATTERY			
<u>CAPACITOR</u>					
C1	1-102-110-00	CERAMIC	220PF	10%	50V
C2	1-102-110-00	CERAMIC	220PF	10%	50V
C3	1-123-618-00	ELECT	22MF	20%	6.3V
C4	1-123-611-00	ELECT	1MF	20%	50V
<u>FILTER</u>					
CF1	1-527-476-00	OSCILLATOR, CERAMIC			
<u>DIODE</u>					
D1	8-719-107-82	DIODE SE303AY			
D2	8-719-900-23	DIODE GL-2AR1			
<u>IC</u>					
IC1	8-759-603-66	IC M50461-034SP			
<u>TRANSISTOR</u>					
Q1	8-729-965-22	TRANSISTOR 2SC1652			
<u>RESISTOR</u>					
R1	1-247-767-00	CARBON	2.2	5%	1/6W
R2	1-215-698-91	METAL	22	5%	1/6W
R3	1-215-716-91	METAL	120	5%	1/6W
<u>SWITCH</u>					
S1	1-553-977-41	SWITCH, SLIDE			


SONY TRINITRON® COLOUR TV KV-21XRTU/XRU RM-661

UK Model








KV-21XRU Chassis No. SCC-778A-A
KV-21XRTU Chassis No. SCC-778B-A


SX CHASSIS

SAFETY-RELATED COMPONENT WARNING !!

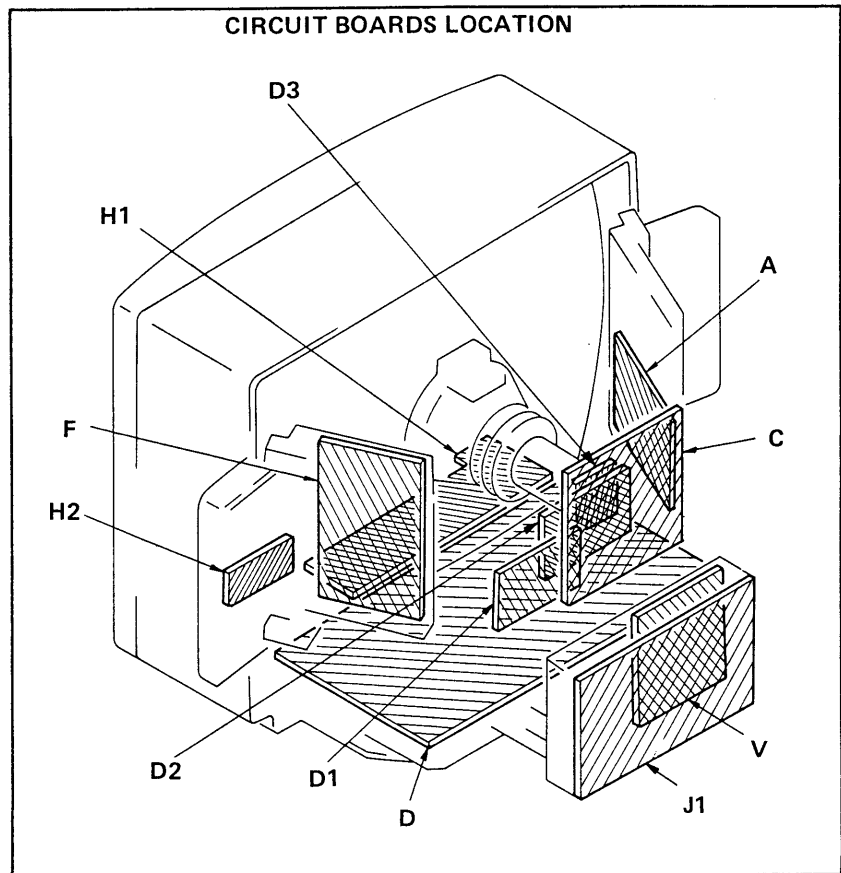
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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.

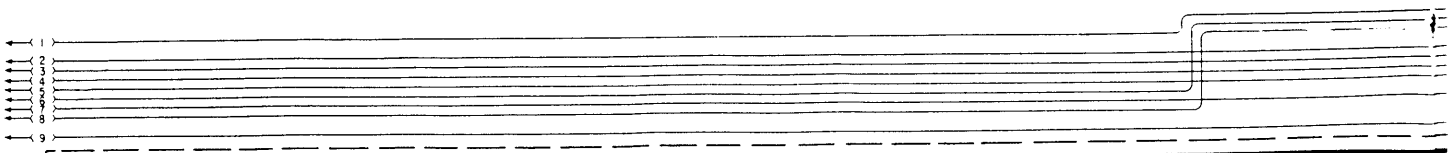
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
Oxfordshire, OX9 4QY.
Tel (01844) 351694
Fax (01844) 352554
email:- sales@mauritron.co.uk



SCHEMATIC DIAGRAM

THIS SCHEMATIC DIAGRAM IS KV-21XRTU.
V BOARD IS NOT USE KV-21XRU.

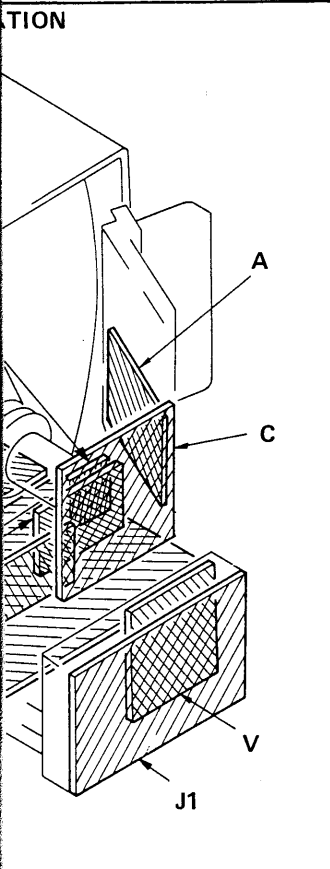


are in μF unless otherwise noted. pF : μpF
 are not indicated except for electrolytics.
 are in ohms, 1/6W unless otherwise noted.
 : 1000k Ω
 and adjustable resistors have characteristic
 s otherwise noted.
 ammable resistor.
 al component.
 designation.

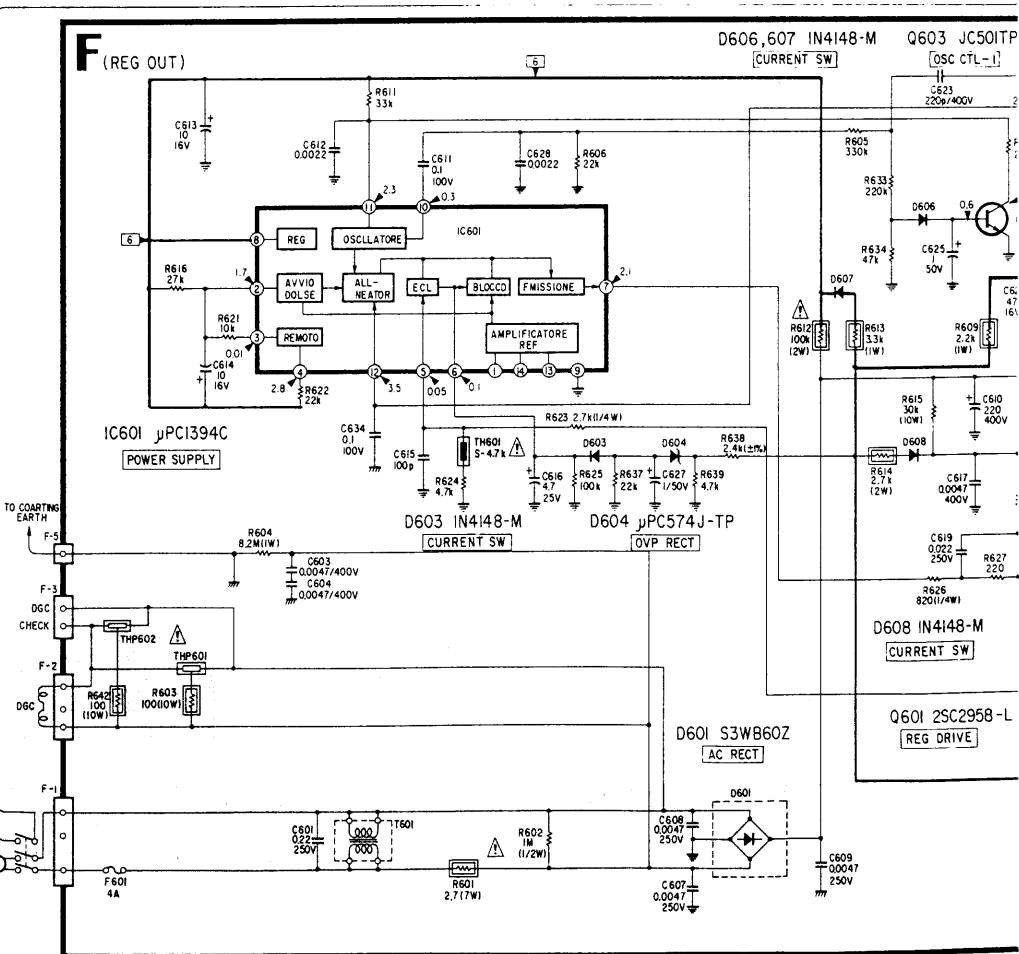
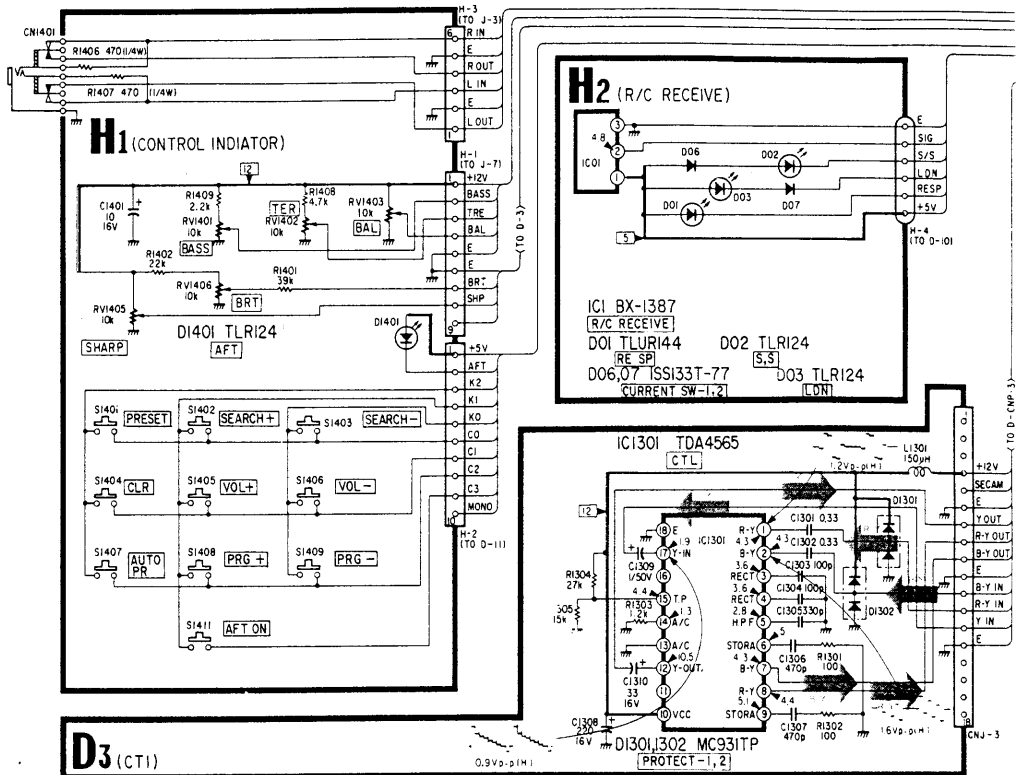
ment for repair.
 e in V.
 us.
 us.
 dc with respect to ground unless otherwise

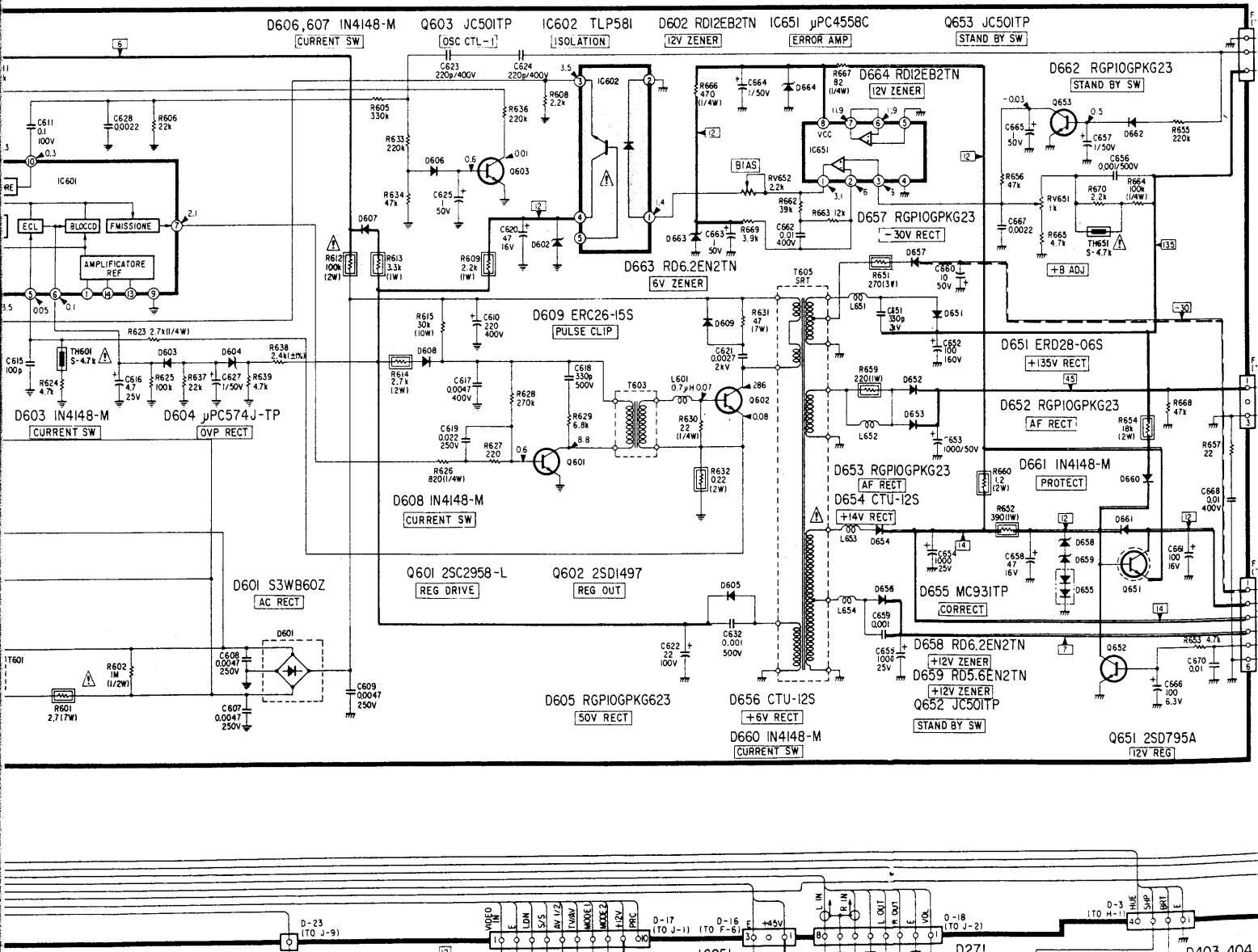
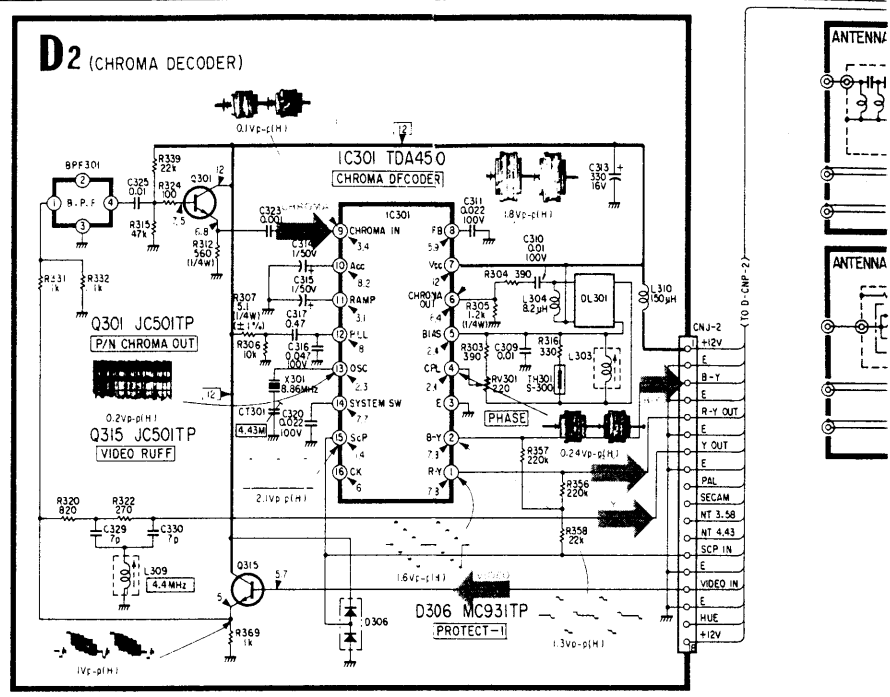
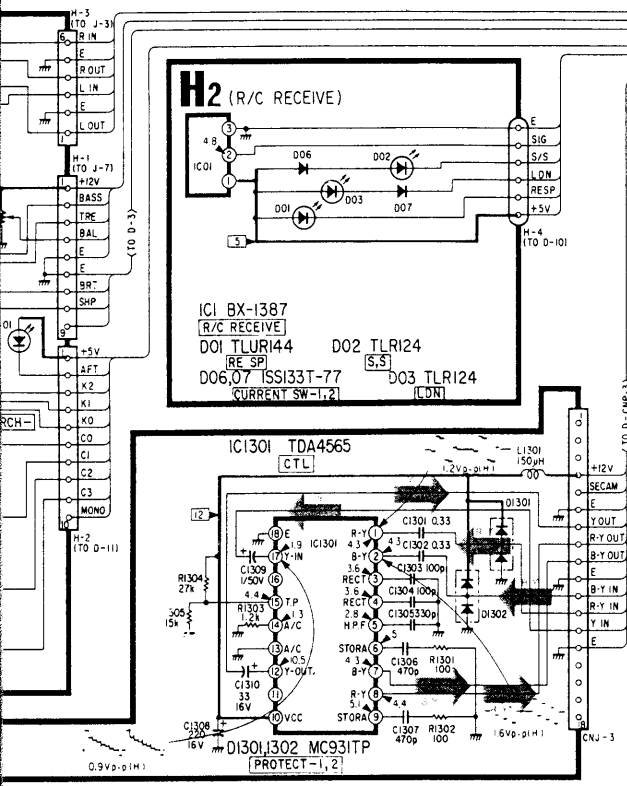
taken with a 10 M Ω digital multimeter.
 taken with a color-bar signal input.
 tions may be noted due to normal produc-
 s.
 ath.

ponents identified by shading and mark
 critical for safety. Replace only with
 number specified.

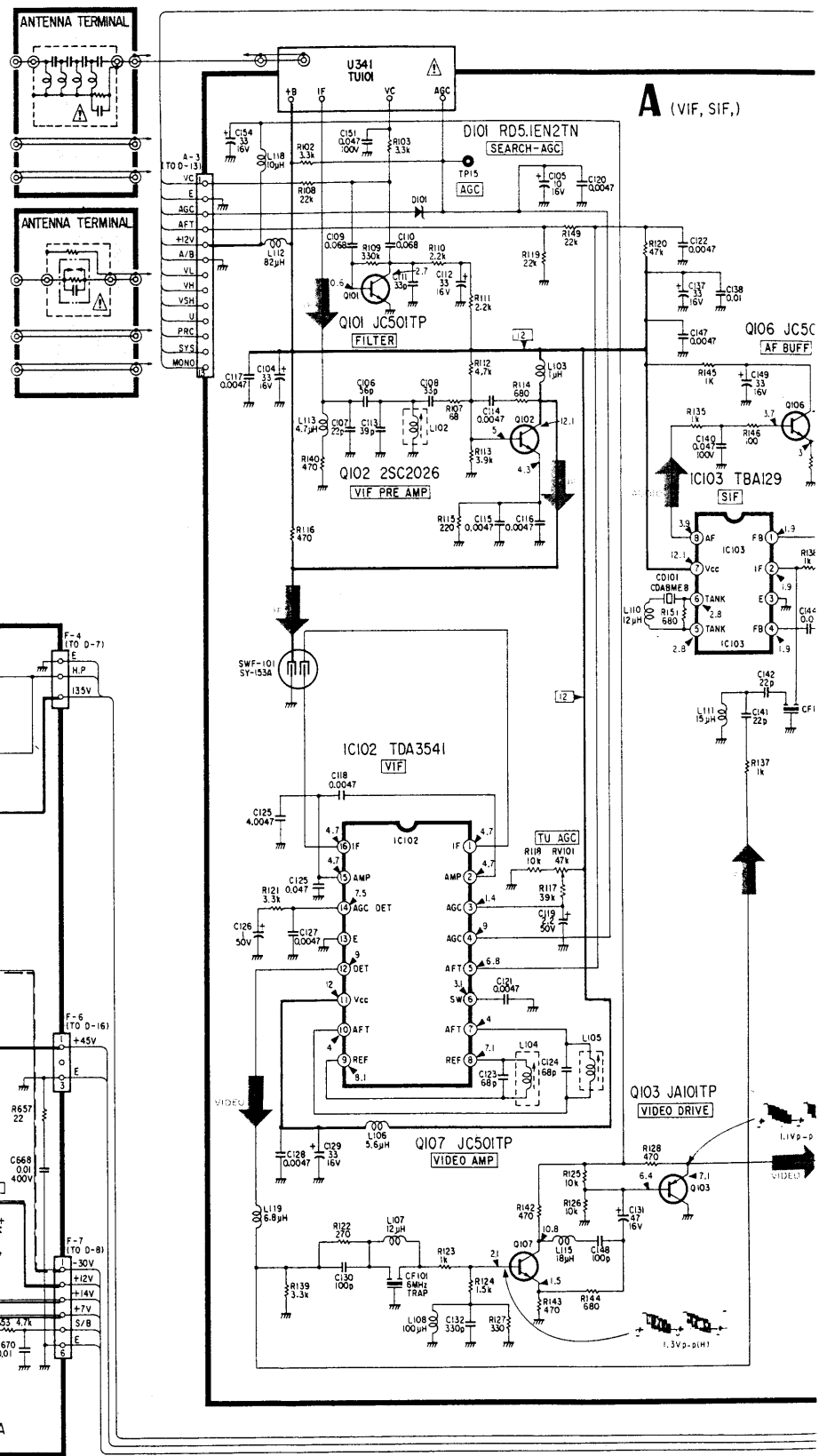
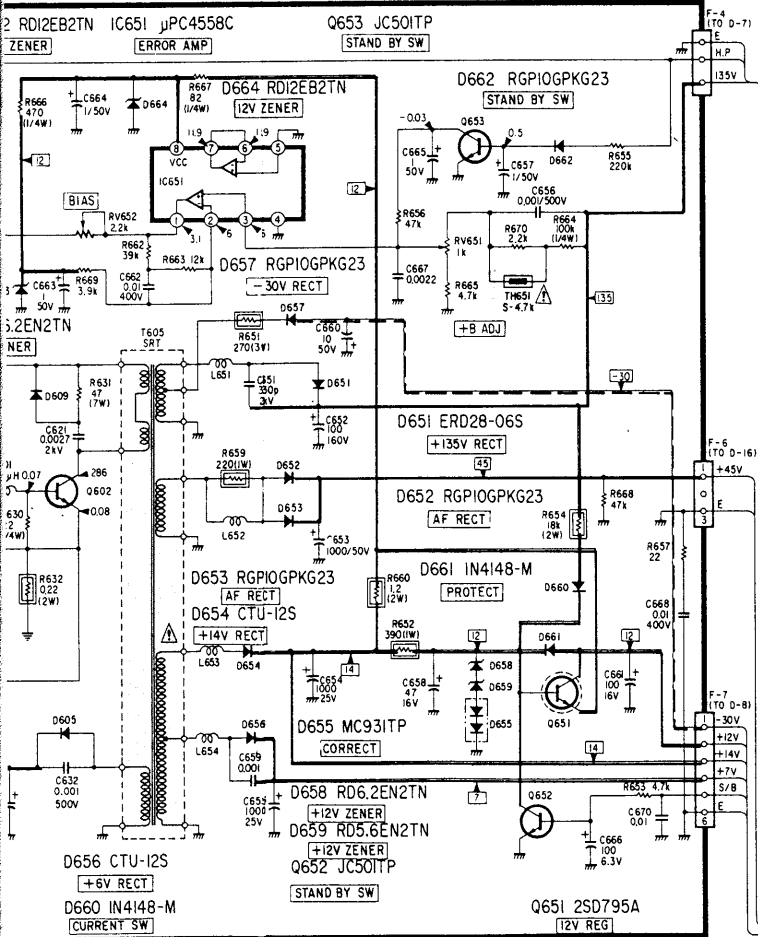
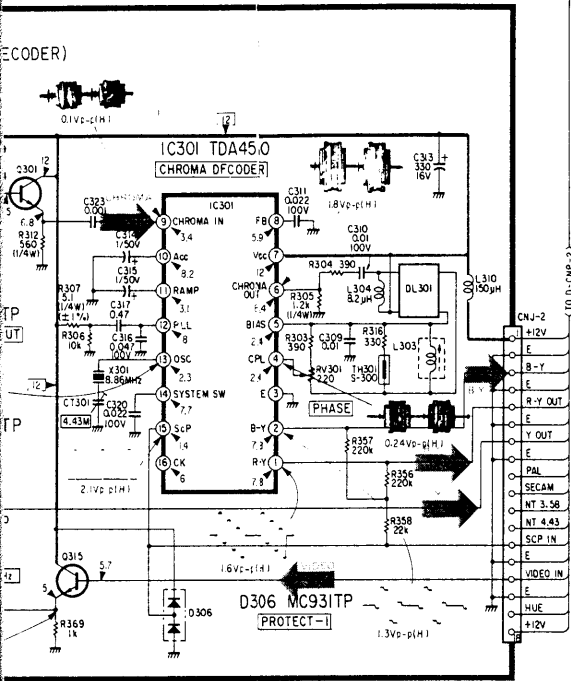


V-21XRTU.

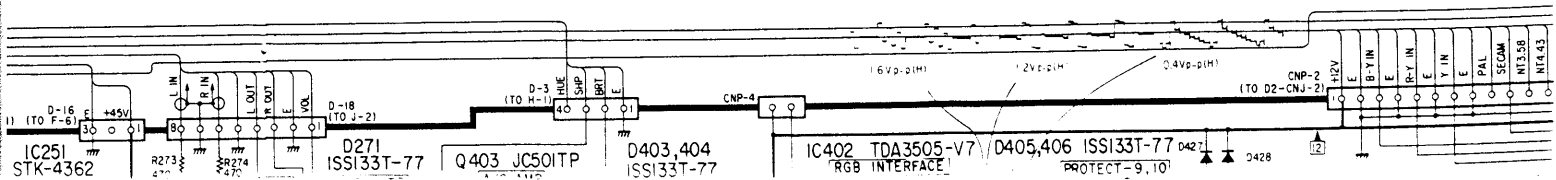


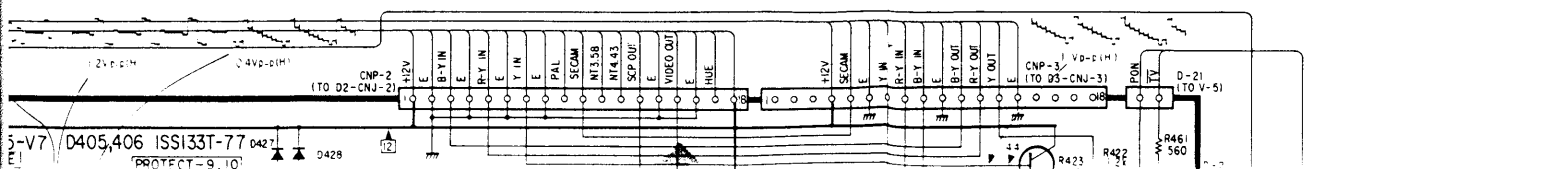
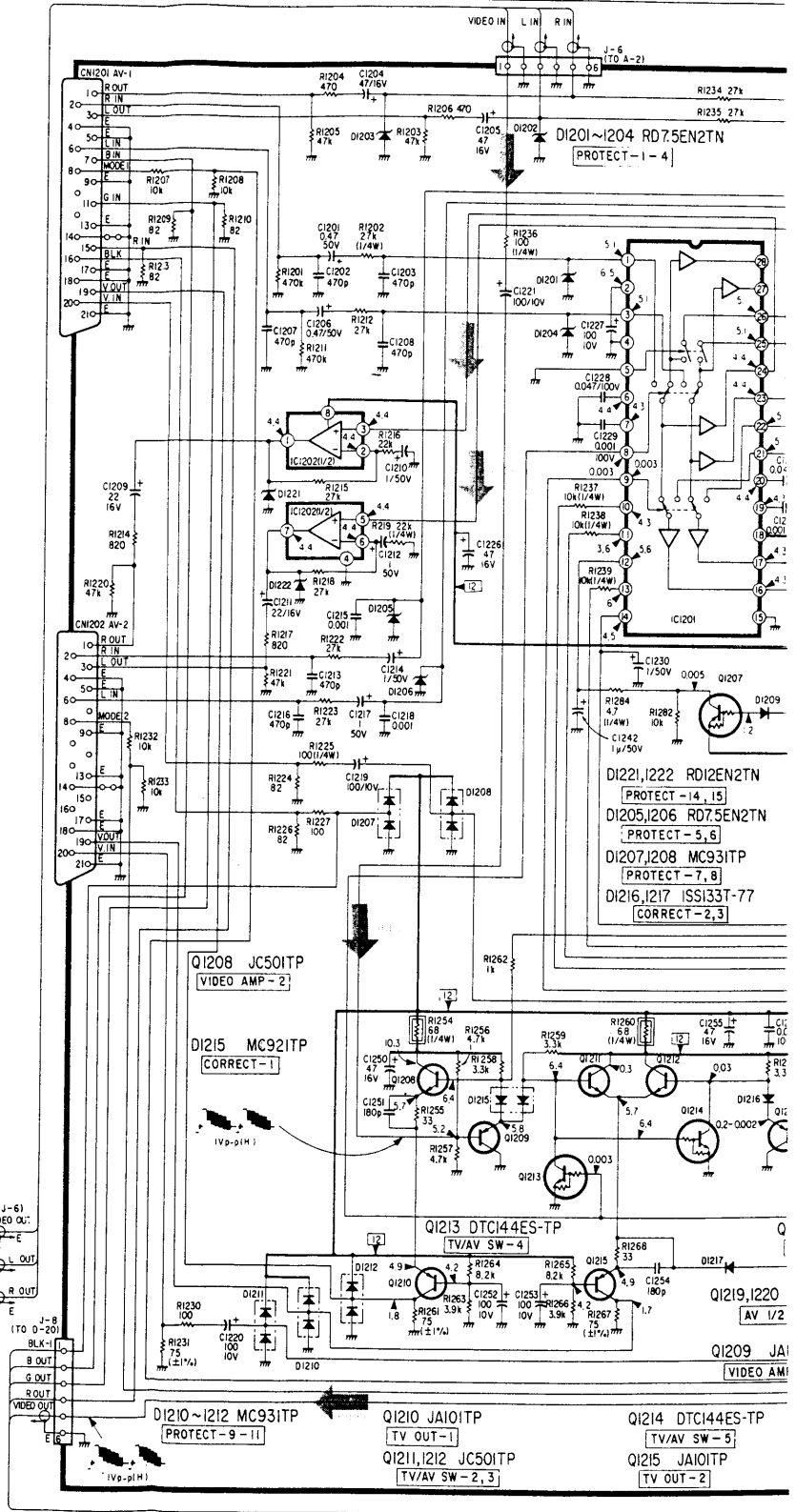
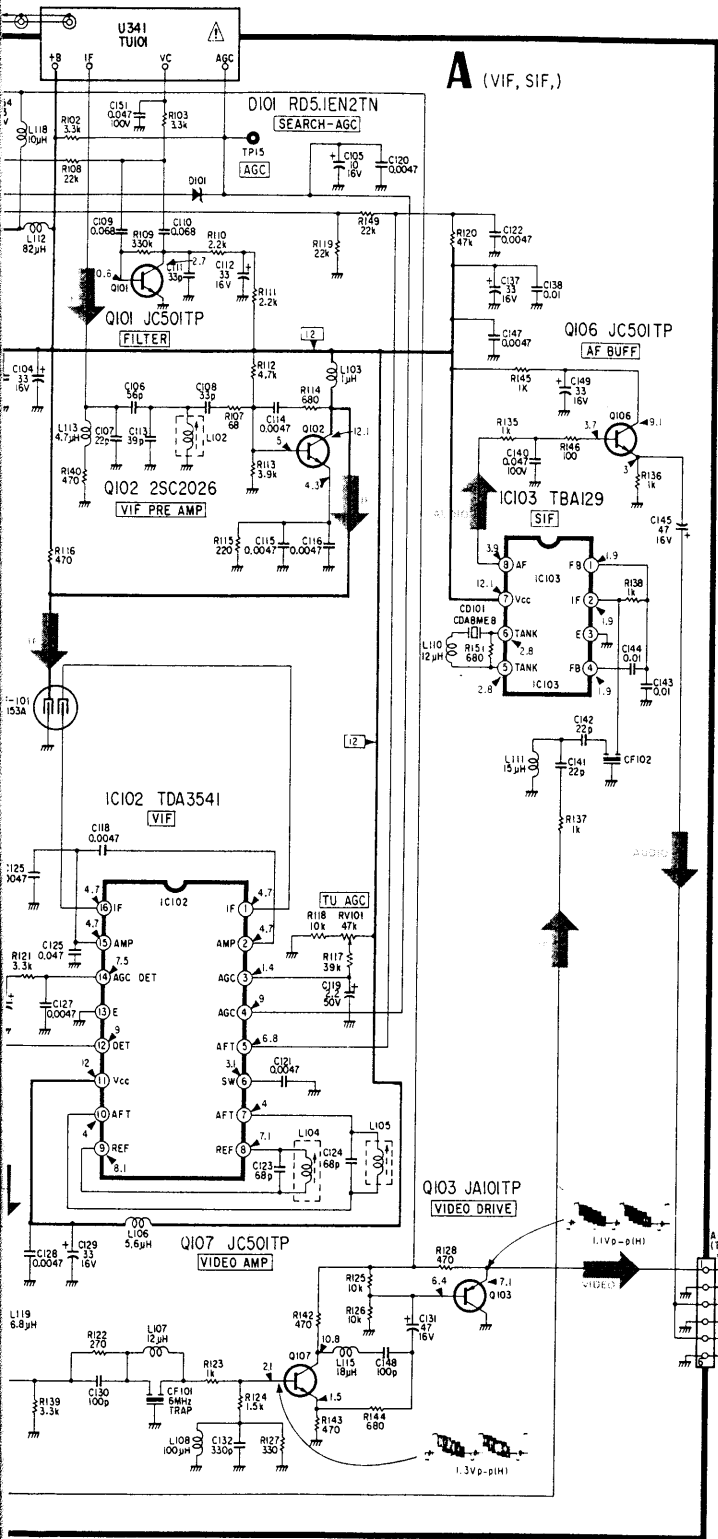


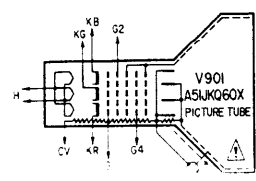
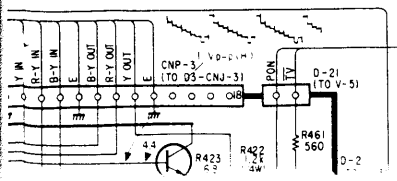
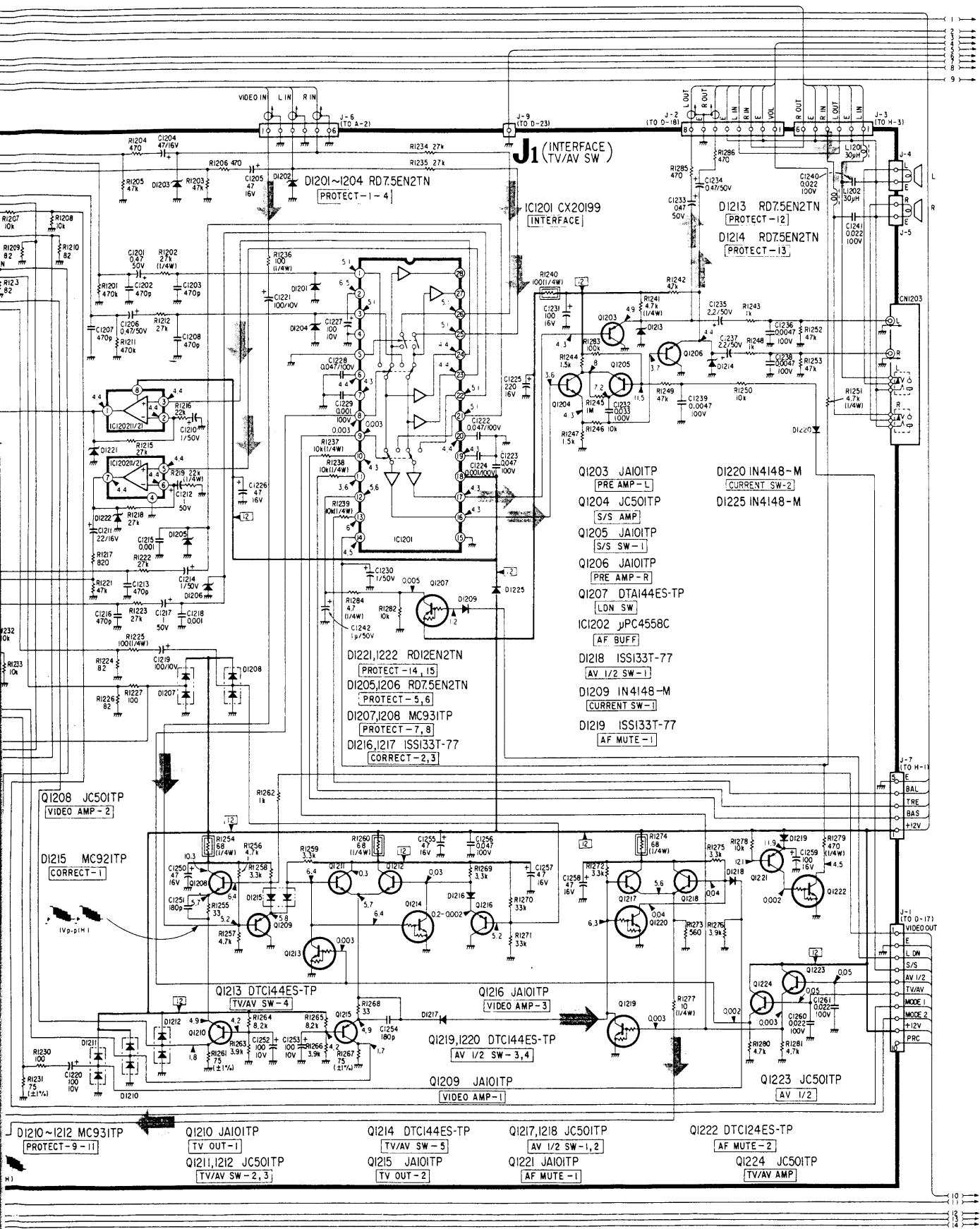
RECORDER)



A (VIF, SIF,)



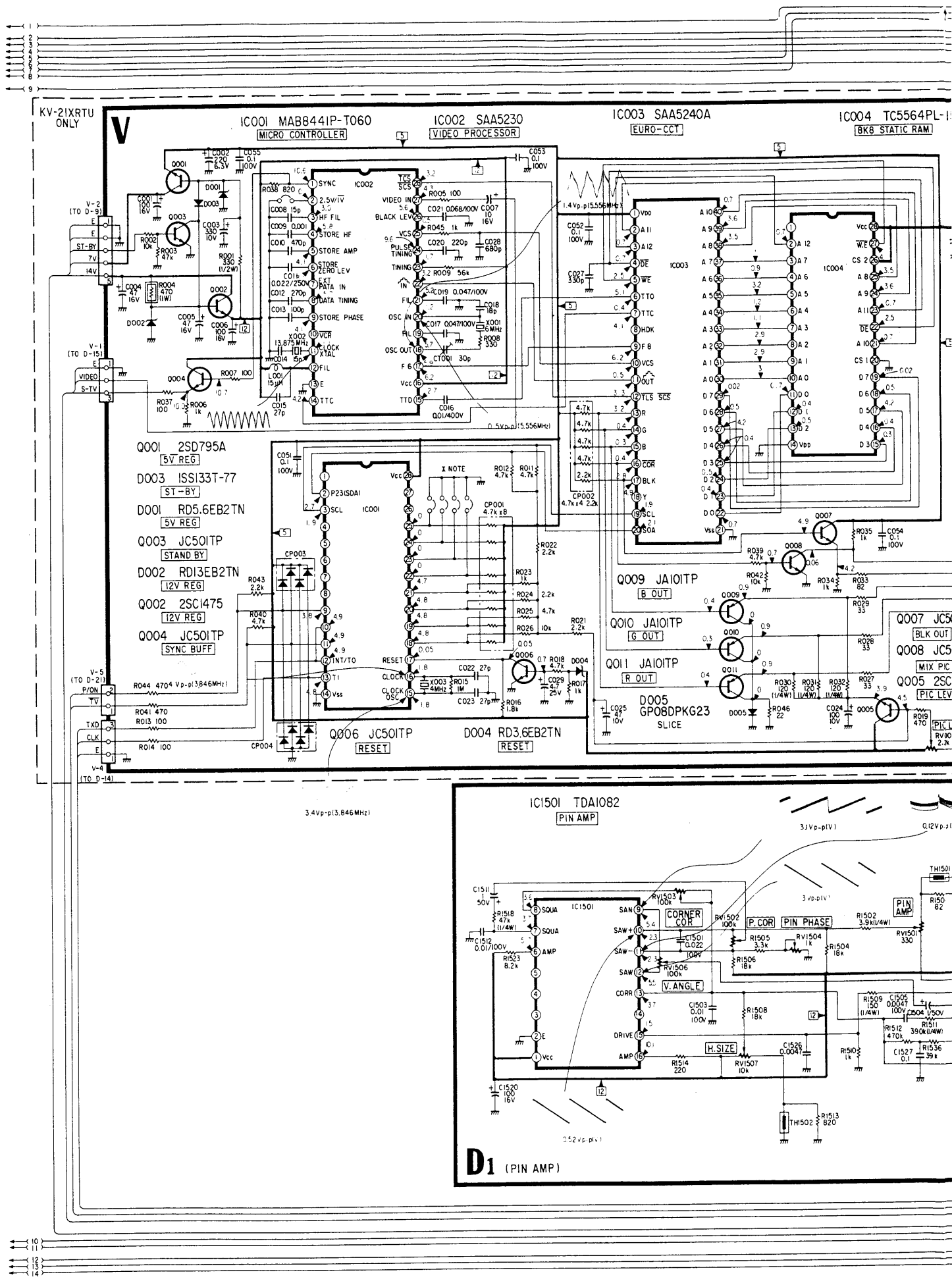


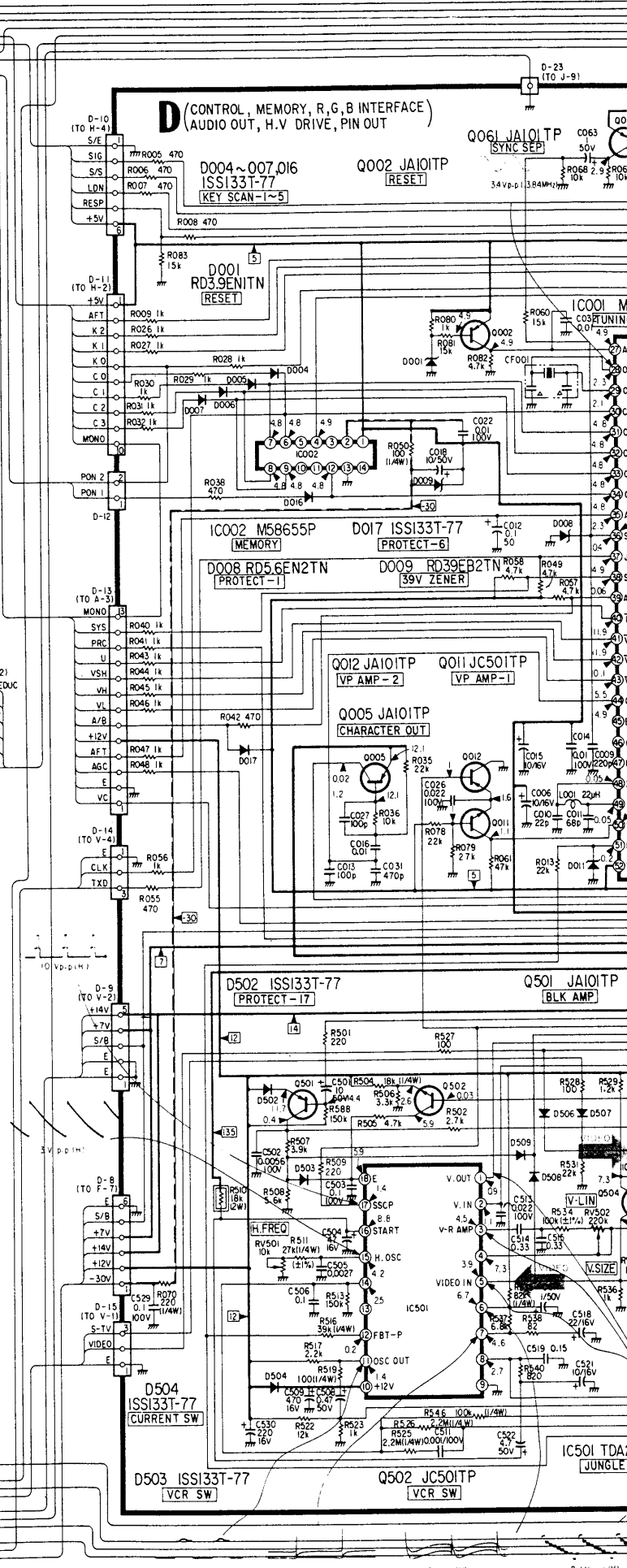
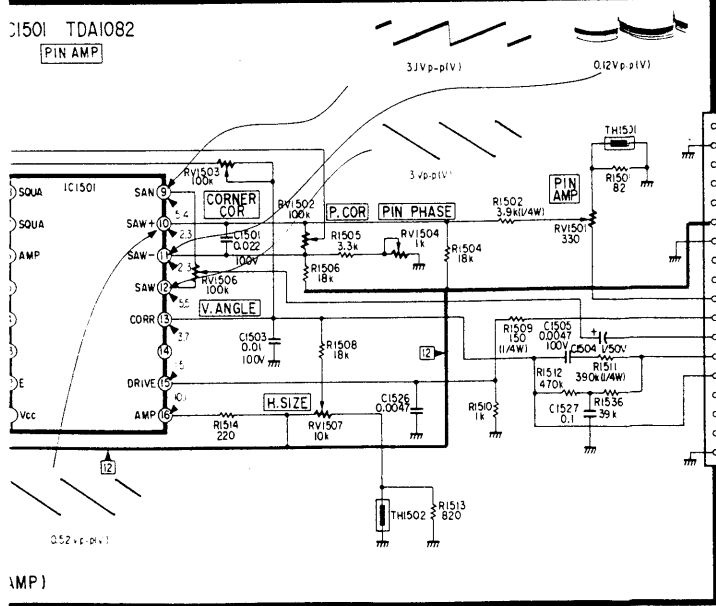
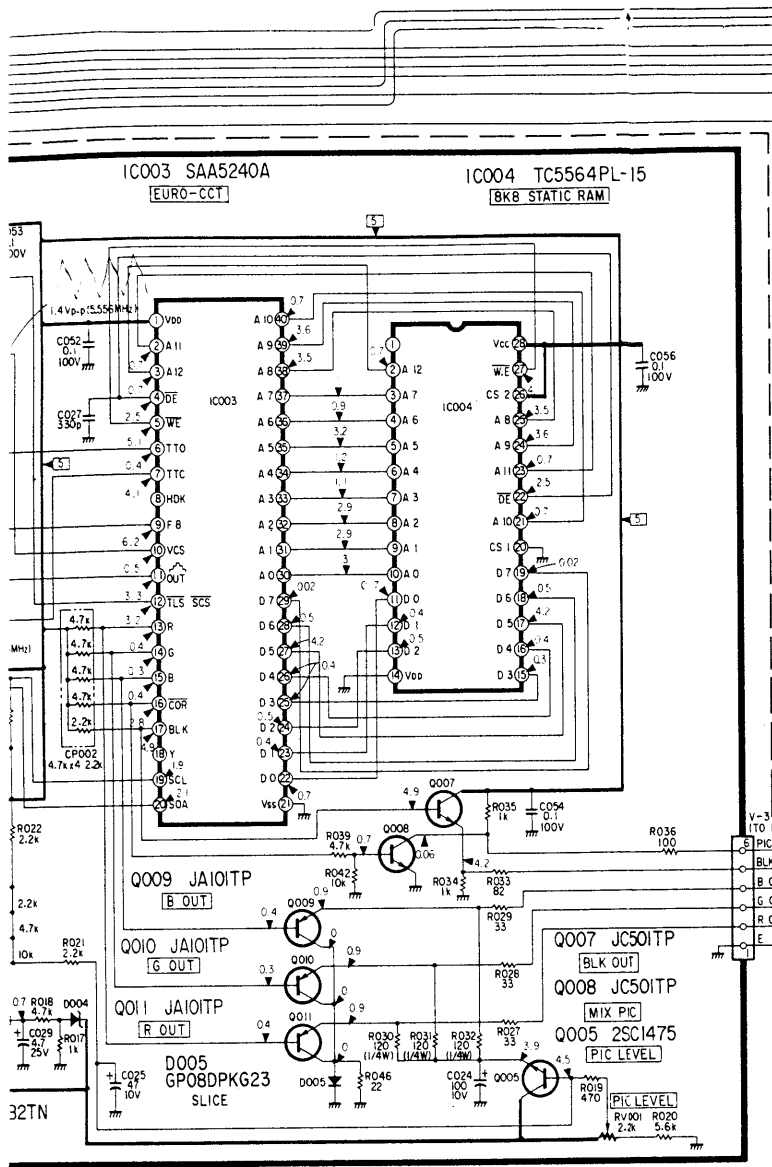


SCHEMATIC DIAGRAM

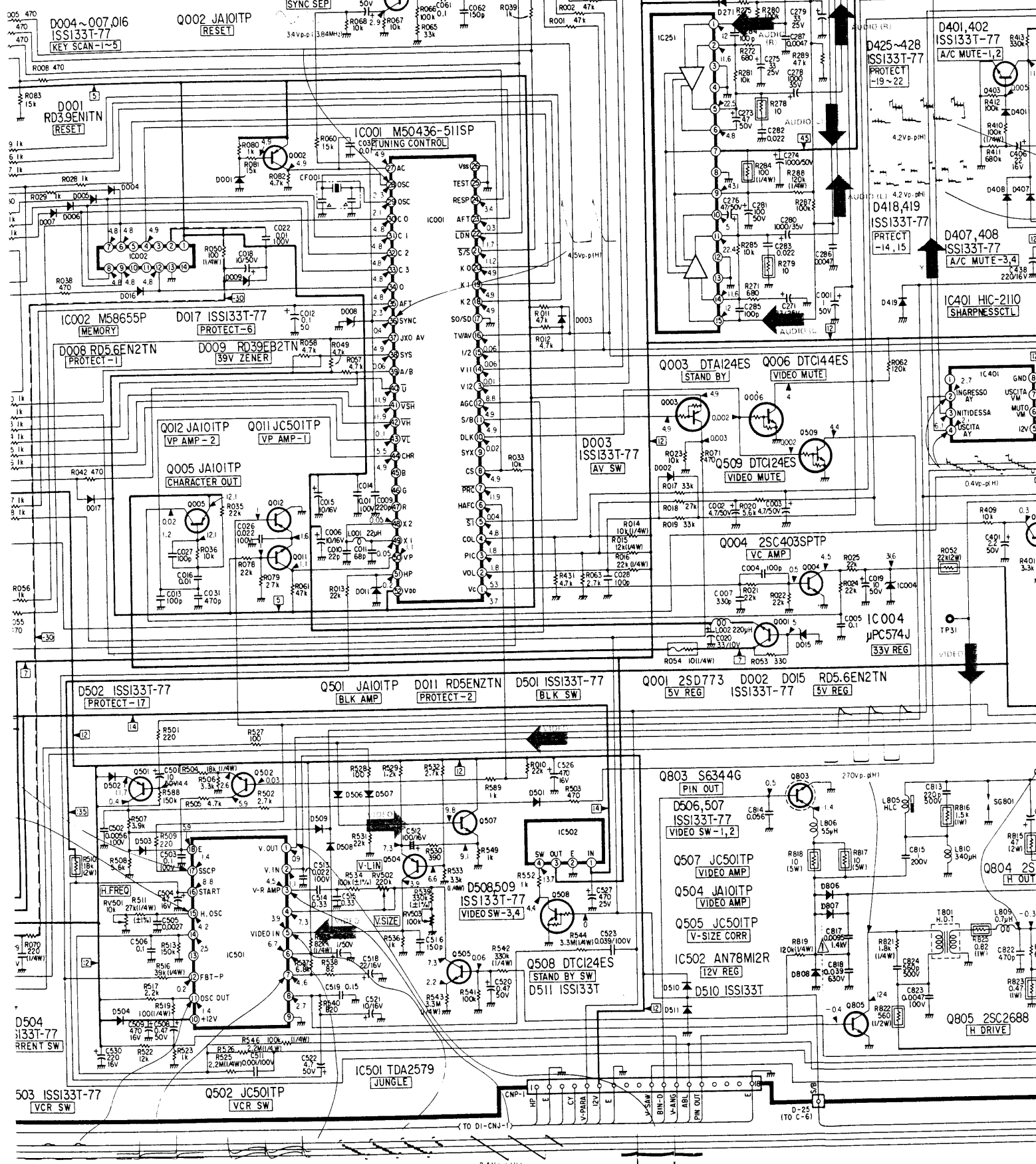
V BOARD IS NOT USE KV-21XRU.

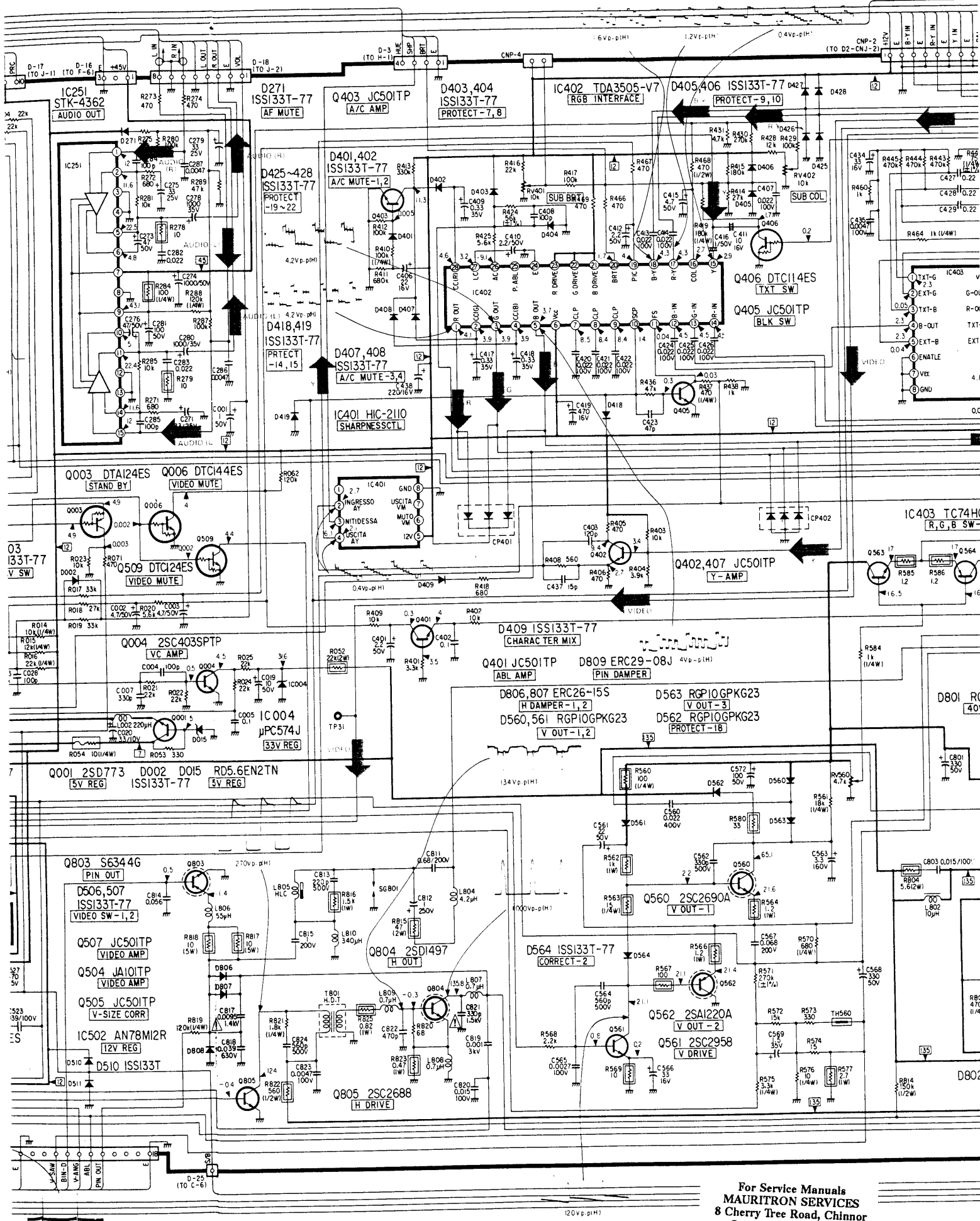
K
L
M
N
O
P
Q
R
S
T
U



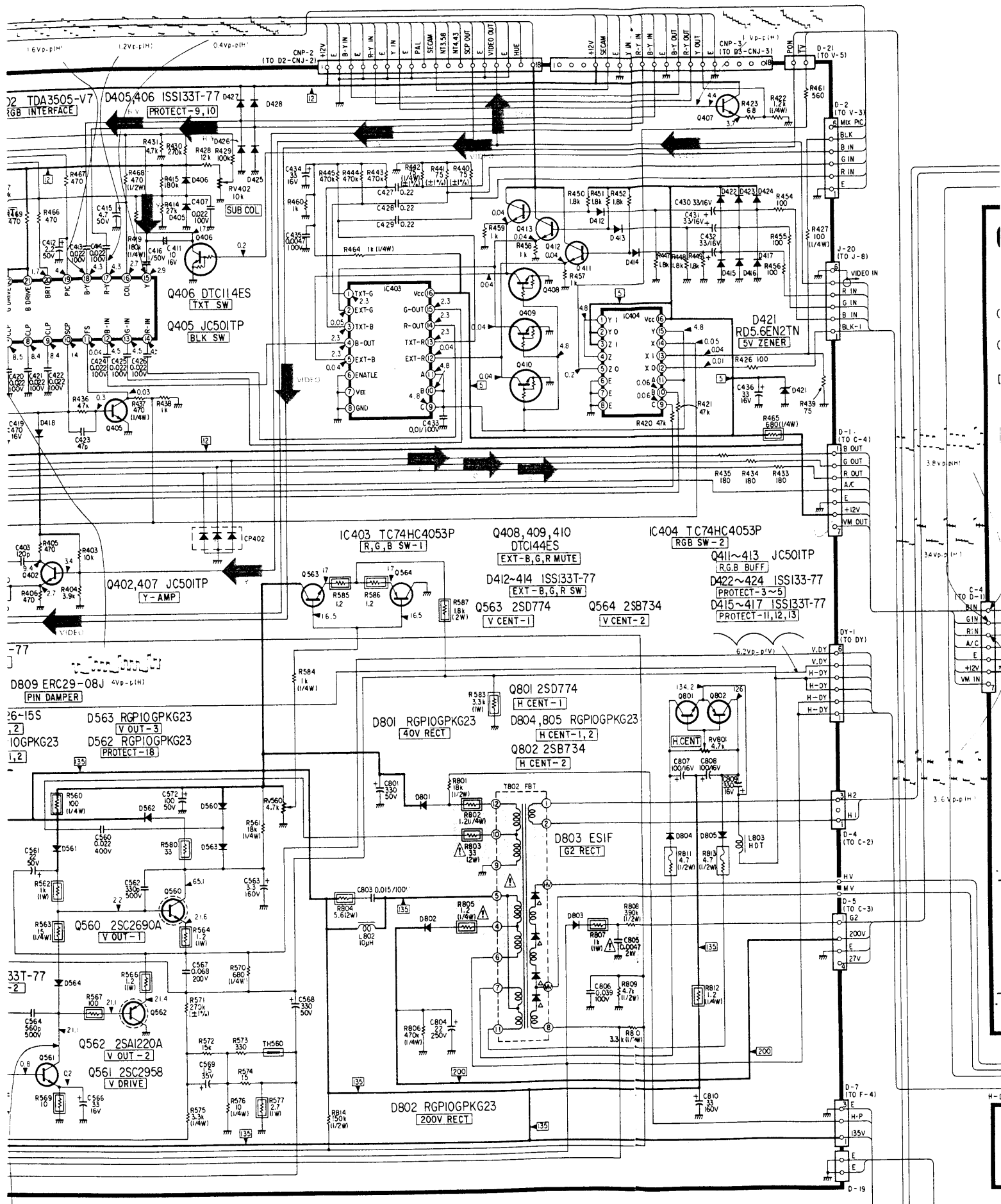


D CONTROL, MEMORY, R, G, B INTERFACE
 AUDIO OUT, H.V. DRIVE, PIN OUT

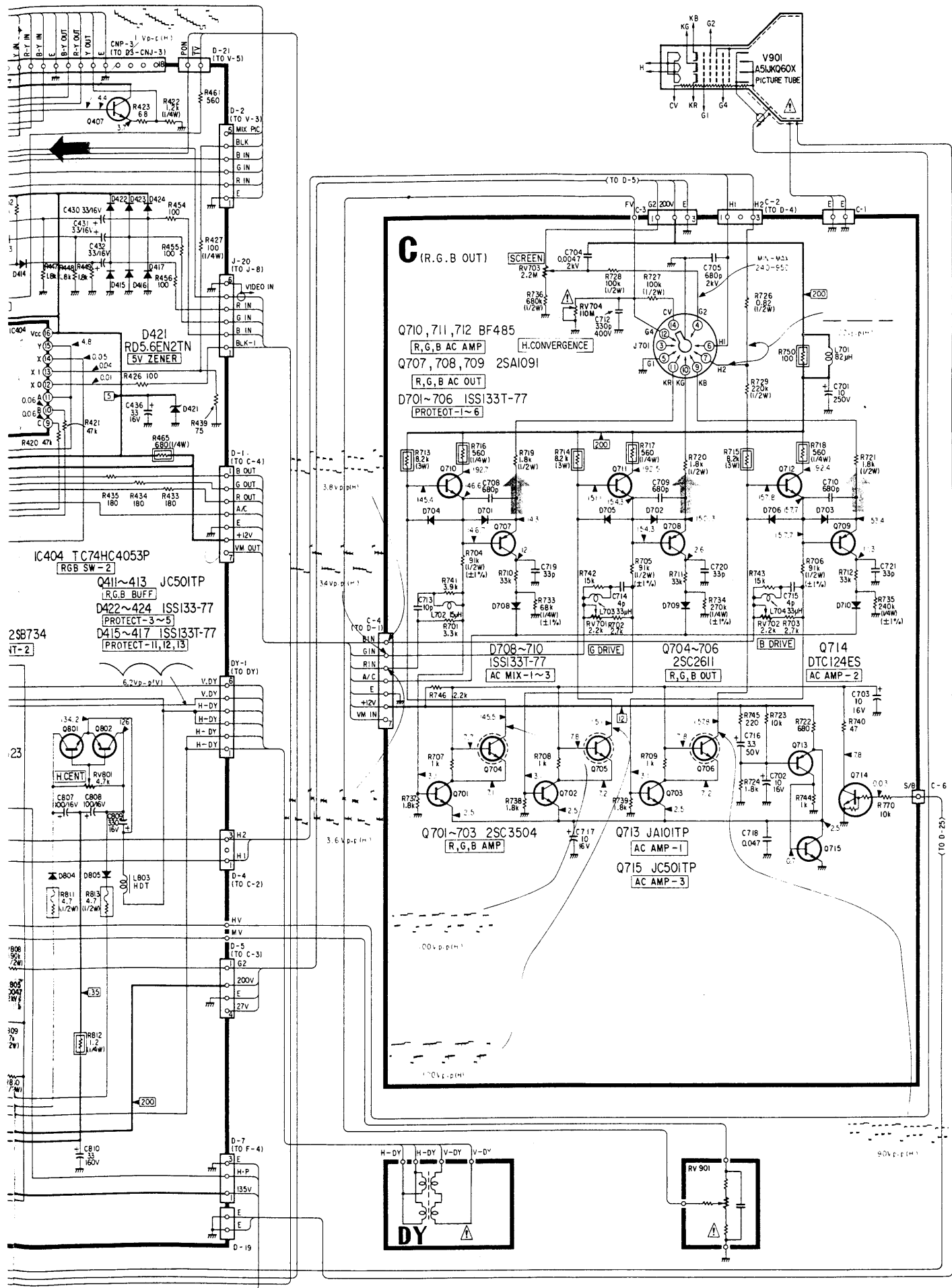




For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- sales@mauritron.co.uk



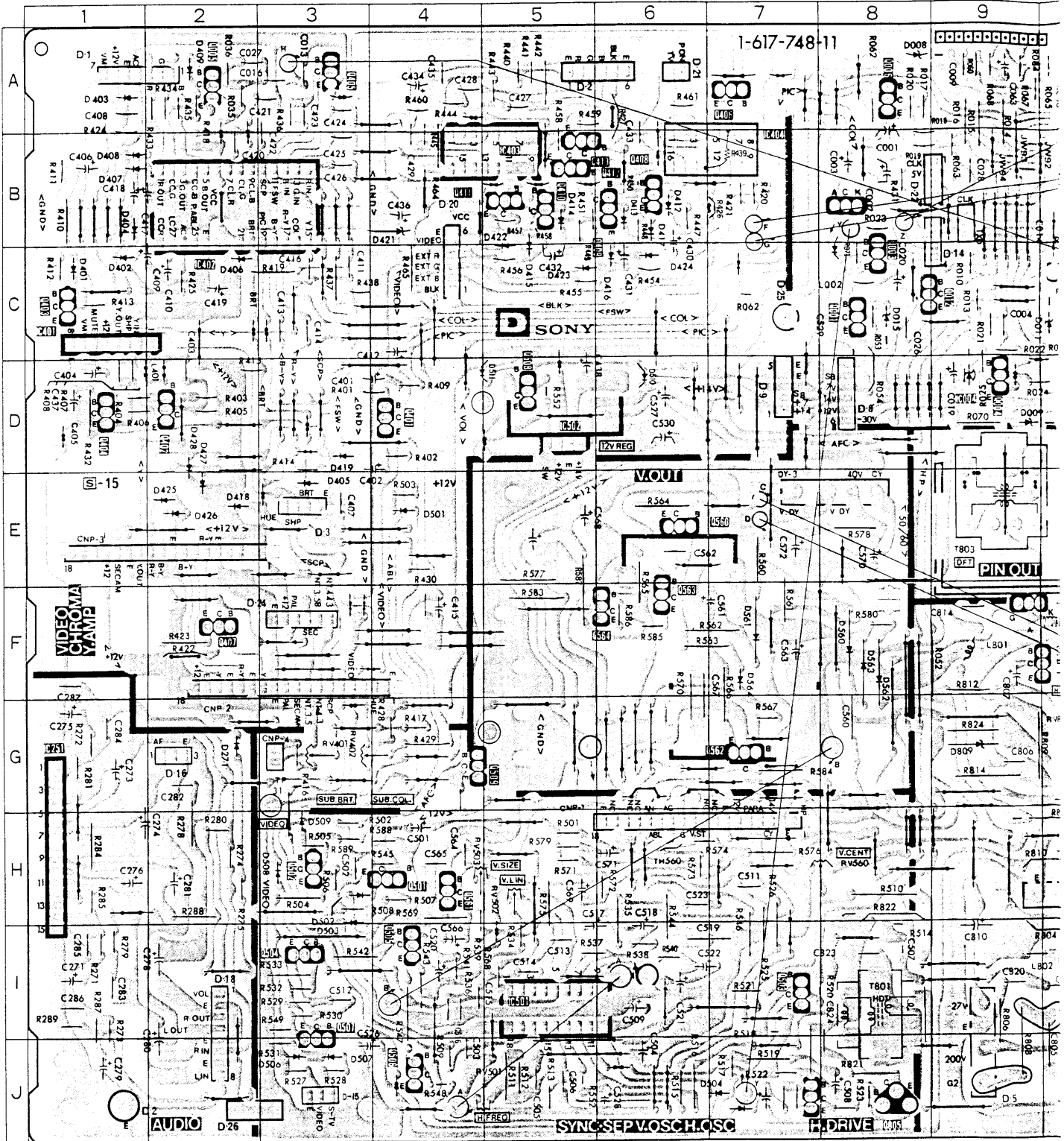
For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- sales@mauritron.co.uk



MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.

D CONTROL, MEMORY, R.G.B. INTERFACE AUDIO OUT, H, V DRIVE, PIN OUT.



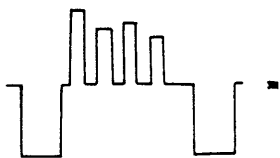
SUB BRIGHT IC402 = B-2, RV401 = G-3

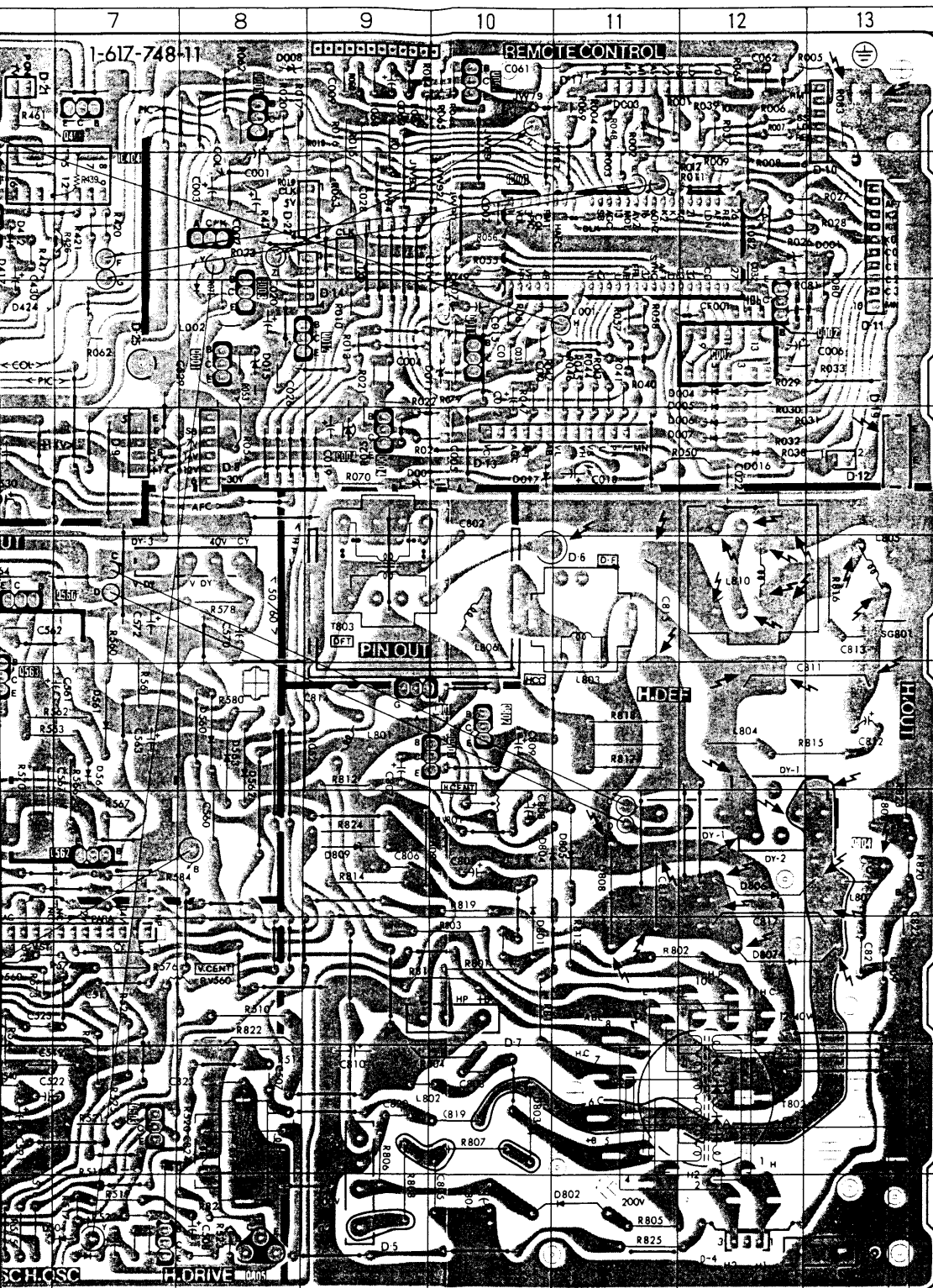
SUB COLOR ADJUSTMENT

IC402 = B-3, RV402 = G-3

1. Receive a dot signal.
2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect an digital multi-meter at pin (20) of IC402.
4. Adjust RV401 to 1.7V dc.

1. Receive a color bar signal.
2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect an Oscilloscope at pin (17) of IC402.
4. Adjust RV402 so that same level as shown.





CAPACITOR			
C001	B-8	C426	B-3
C002	B-8	C427	A-5
C003	B-8	C428	A-4
C004	C-9	C429	B-4
C005	D-10	C430	C-6
C006	C-12	C431	C-6
C007	B-10	C432	C-5
C009	A-9	C433	B-6
C010	C-10	C434	A-4
C011	C-10	C435	A-4
C012	C-10	C436	B-4
C013	A-3	C437	D-1
C014	B-10	C438	D-5
C015	C-10	C501	H-4
C016	A-2	C502	H-3
C018	D-11	C503	J-4
C019	D-9	C504	J-6
C020	C-8	C505	J-5
C022	D-12	C506	J-5
C026	C-8	C508	J-8
C027	A-2	C509	I-6
C028	B-9	C511	H-7
C031	C-10	C512	I-3
C032	B-12	C513	I-5
C061	A-10	C514	I-5
C062	A-12	C515	I-5
C063	A-9	C516	J-4
C271	I-1	C517	I-5
C273	G-1	C518	I-6
C274	H-1	C519	I-6
C275	G-1	C520	I-4
C276	H-1	C521	I-6
C278	I-2	C522	I-6
C279	J-1	C523	H-6
C280	I-2	C526	J-3
C281	H-2	C527	D-6
C282	G-2	C529	C-8
C283	I-1	C530	D-6
C284	G-1	C560	G-8
C285	I-1	C561	F-7
C286	I-1	C562	F-6
C287	F-1	C563	F-7
C401	D-4	C564	H-4
C402	D-4	C565	H-4
C403	C-2	C566	I-4
C406	B-1	C567	F-6
C407	E-3	C568	E-5
C408	A-1	C569	H-5
C409	C-2	C572	E-7
C410	C-2	C801	G-10
C411	C-3	C803	I-10
C412	C-4	C804	J-10
C413	C-3	C805	J-10
C414	C-3	C806	G-9
C415	F-4	C807	F-9
C416	C-3	C808	G-10
C417	B-2	C809	F-10
C418	B-1	C810	I-9
C419	C-2	C811	F-13
C420	B-2	C812	F-13
C421	A-3	C813	E-13
C422	B-3	C814	F-9
C423	A-3	C815	E-11
C424	A-3	C817	G-12
C425	B-3	C818	G-11
		C819	I-10
		C820	I-1
		C821	H-1
		C822	H-1
		C823	I-1
		C824	I-1

FILTER			
CF001	C-		

CONNECTO			
CNP1	G-	D2	A-
CNP2	G-	D3	E-
CNP3	E-	D4	J-
CNP4	G-	D5	J-
D1	A-	D7	H-
		D8	D-
		D9	D-
		D10	A-
		D11	B-
		D12	D-
		D13	D-
		D14	C-
		D15	J-
		D16	G-
		D17	A-
		D18	I-
		D19	D-
		D20	B-
		D21	A-
		D25	C-
		D26	J-
		DY1	F-

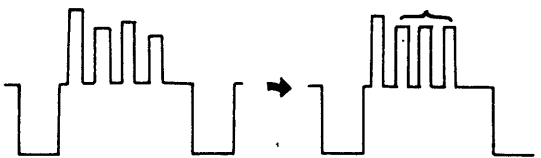
DIODE			
D001	B-		
D003	A-		
D004	C-		
D005	C-		
D006	D-		
D007	D-		
D008	A-		
D009	D-		
D011	C-		
D015	C-		
D016	D-		
D017	D-		
D271	G-		
D401	C-		
D402	C-		
D403	A-		
D404	B-		
D405	E-		
D406	C-		
D407	B-		

IC402 = B-3, RV402 = G-3

H FREQUENCY

IC501 = I-5, RV501 = J-5

..... normal
 normal
 center click
 at pin (17) of IC402
 same level as shown.



1. Connect a digital multimeter to IC501 pin (5) and the ground.
2. Adjust H FREQUENCY VR (RV501) for stable picture.



fo: too low



fo: suitable

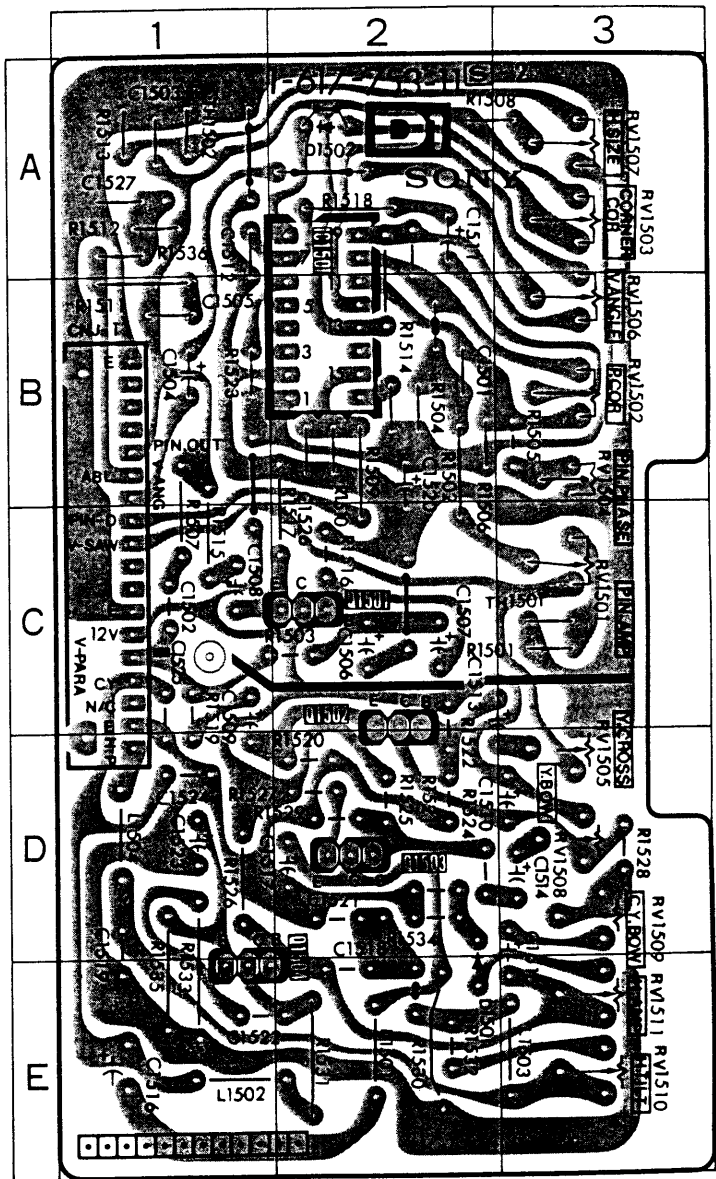


fo: too high

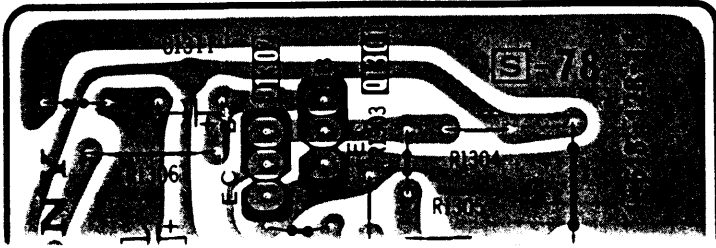
(fo = 15,700 ± 25Hz)

D1 [PIN AMP]

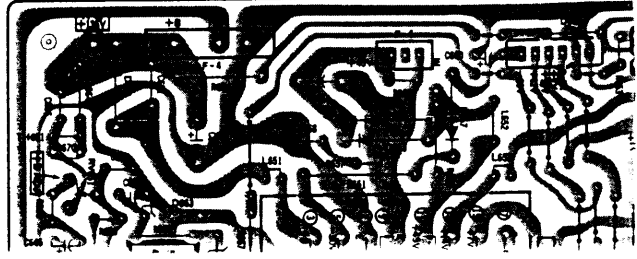
COIL		R009 B-12		R272 G-1		R460 A-4		R587 E-5			
1	C-11	R011 B-12	R273 I-1	R461 A-6	R588 H-4	R012 B-12	R274 H-2	R462 B-4	R589 H-3		
2	C-8	R013 C-9	R275 H-2	R465 C-4	R801 H-10	R014 A-9	R278 H-2	R501 H-5	R802 H-11		
3	I-9										
4	F-11	R015 A-9	R279 I-1	R502 H-3	R803 H-10	R016 A-9	R280 H-2	R503 E-4	R804 I-10		
5	F-12	R017 A-8	R281 G-1	R504 H-3	R805 J-11	R018 B-8	R284 H-1	R505 H-3	R806 I-9		
6	E-13	R019 B-8	R285 H-1	R506 H-3	R807 I-10	R020 A-8	R287 I-1	R507 H-4	R808 I-9		
7	G-13					R021 C-9	R288 H-2	R508 H-4	R809 G-9		
8	H-13					R022 C-9	R289 I-1	R509 J-4	R810 H-9		
9	H-13					R023 B-8	R401 D-3	R510 H-8	R811 H-10		
0	E-12					R024 D-9	R402 D-4	R511 J-5	R812 F-9		
RESISTOR		R025 D-9		R403 D-2		R513 J-5		R813 H-11			
1	C-8	R026 B-12	R404 D-1	R516 J-6	R814 G-9	2	C-12	R027 B-12	R405 D-2	R517 J-7	R815 F-13
3	C-8	R028 B-12	R406 D-1	R519 J-7	R816 E-13	4	D-9	R029 C-12	R408 D-1	R522 J-7	R817 F-11
5	A-2					6	A-8	R030 D-12	R409 D-4	R523 J-8	R818 F-11
7	C-10	R031 D-12	R410 B-1	R525 I-7	R819 G-10	8	C-9	R032 D-12	R411 B-1	R526 H-7	R820 G-13
9	A-10	R033 C-12	R412 C-1	R527 J-3	R821 J-8	1	D-4	R035 A-2	R413 C-1	R528 J-3	R822 H-8
2	D-2	R036 A-2	R414 D-3	R529 I-3	R823 G-13	3	C-1	R037 A-12	R415 D-2	R530 I-3	R825 J-11
4	A-3	R038 D-12	R416 G-3	R531 J-3		5	A-7	R039 A-12	R417 G-4	R532 I-3	
6	F-2	R040 A-12	R418 A-2	R533 I-3		7	B-6	R041 C-11	R419 C-3	R534 I-5	
8	B-6					9	B-6	R042 C-10	R420 B-7	R535 H-6	
0	B-5	R043 C-11	R421 B-7	R536 I-4		1	B-4	R044 C-11	R422 F-2	R537 I-5	
1	B-4	R045 C-11	R423 F-2	R538 I-6		2	B-5	R046 C-11	R424 A-1	R539 I-4	
3	H-4					3	H-3	R047 C-10	R425 C-2	R540 I-6	
4	I-3	R048 A-11	R426 B-7	R541 I-4		5	I-4	R049 B-10	R427 A-6	R542 I-3	
5	I-4	R050 D-11	R428 G-4	R543 I-4		7	D-5	R052 F-9	R429 G-4	R544 H-6	
7	I-3					8	C-8	R053 C-8	R430 E-4	R546 I-7	
9	D-5	R054 D-8	R431 B-8	R549 I-3		0	C-4	R055 B-10	R433 A-2	R552 D-5	
0	E-6	R056 B-10	R434 A-2	R560 E-7		1	H-4				
1	H-4					3	G-7	R057 C-11	R435 A-2	R561 F-7	
3	F-6	R058 C-11	R436 A-3	R562 F-6		4	F-6	R060 A-9	R437 C-3	R563 F-6	
4	F-6	R061 C-10	R438 C-3	R564 E-6		5	F-10	R062 C-7	R440 A-5	R566 F-7	
5	F-10					7	F-9	R063 B-9	R441 A-5	R567 G-7	
7	J-7	R064 A-12	R442 A-5	R568 I-5		8	G-13	R065 A-10	R443 A-5	R569 H-4	
9	J-7	R066 A-10	R444 A-4	R570 F-6		0	J-7	R067 A-9	R445 B-4	R571 H-5	
		R068 A-9	R447 B-6	R572 H-6							
		R070 D-9	R448 B-6	R573 H-6							
		R071 C-8	R449 C-5	R574 H-7							
		R078 C-10	R450 B-6	R575 H-5							
		R079 C-10	R451 B-5	R576 H-7							
		R080 C-13	R454 C-6	R577 E-5							
		R081 B-12	R455 C-5	R580 F-8							
		R082 B-12	R456 C-5	R583 F-5							
		R083 A-13	R457 B-5	R584 G-7							
		R084 A-9	R458 B-5	R585 F-6							
		R271 I-1	R459 A-5	R586 F-6							



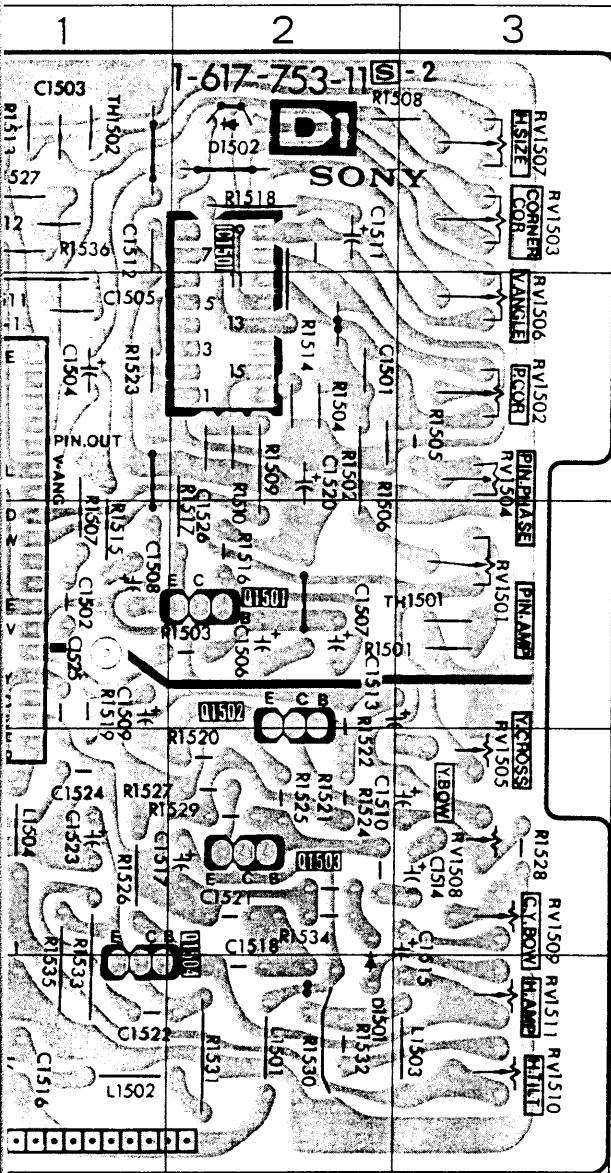
D3 [CTI]



F [REG OUT.]

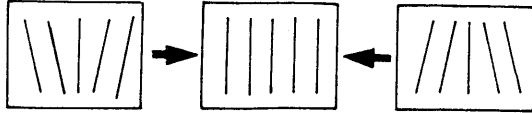


[PIN AMP]



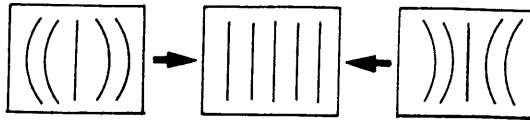
PIN PHASE RV1504 = B-3

Adjust PIN PHASE with RV1504



PIN AMP RV1501 = C-3

Adjust PIN AMP with RV1501



V. ANGLE RV1506 = B-3

Adjust V. ANGLE with RV-1506

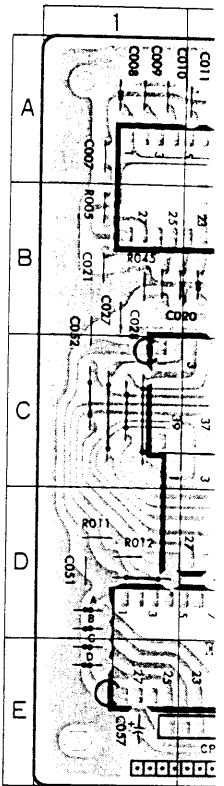


PIN CORRECT RV1502 = B-3

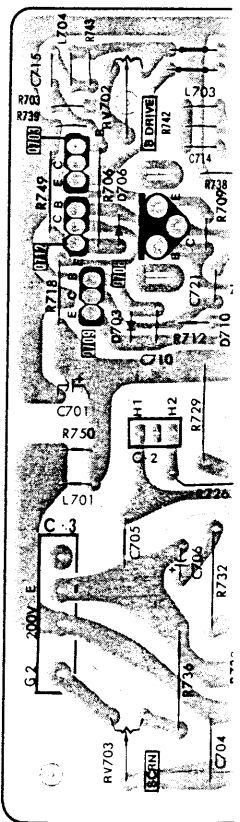
Adjust PIN CORRECT with RV1502



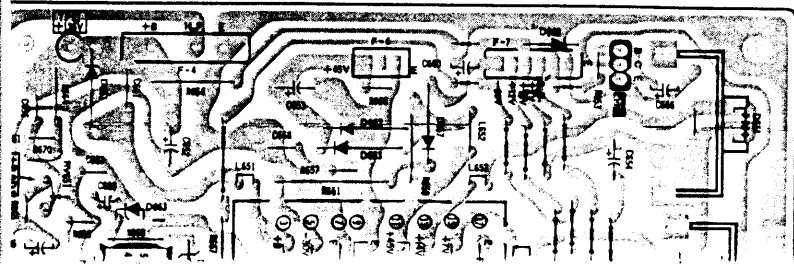
V V-1 = A-3,
1. Disconn.
2. Connect
3. Adjust C



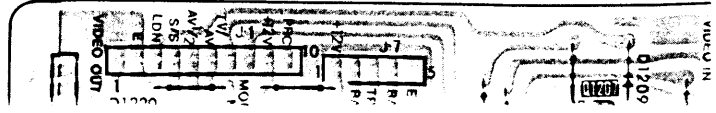
C



F [REG OUT.]



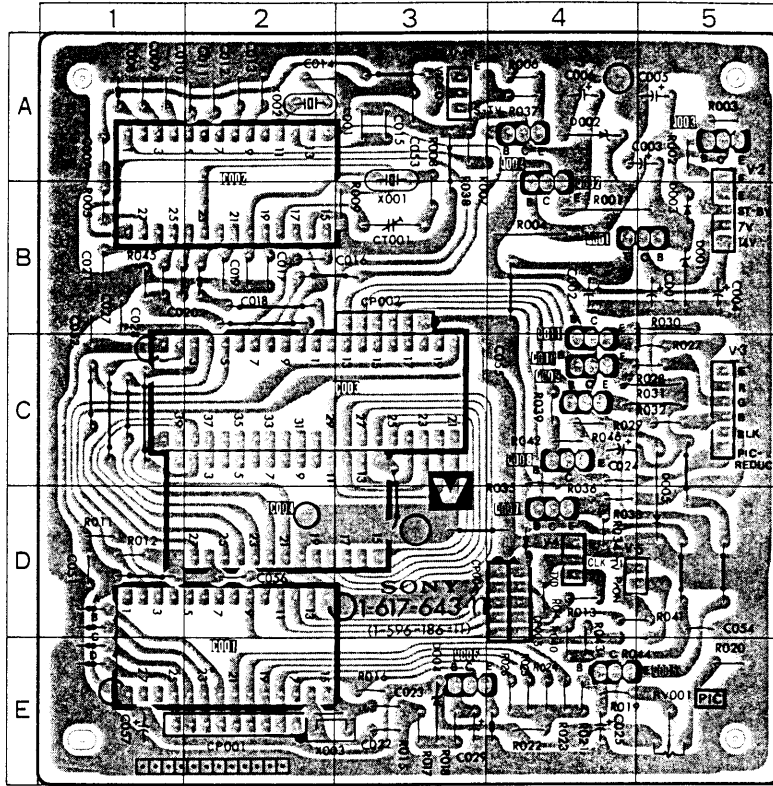
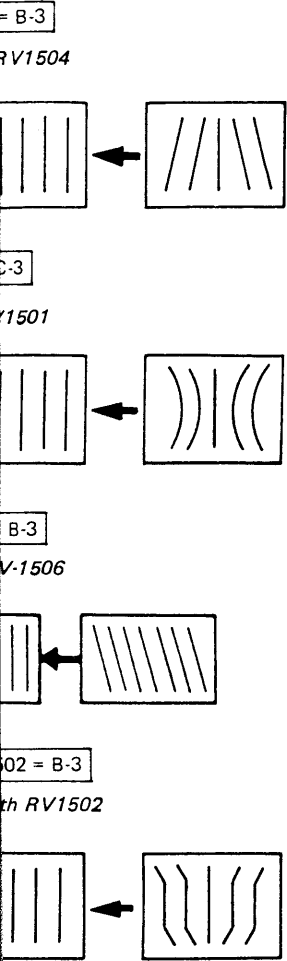
J1 [INTERFACE TV/AV SW]



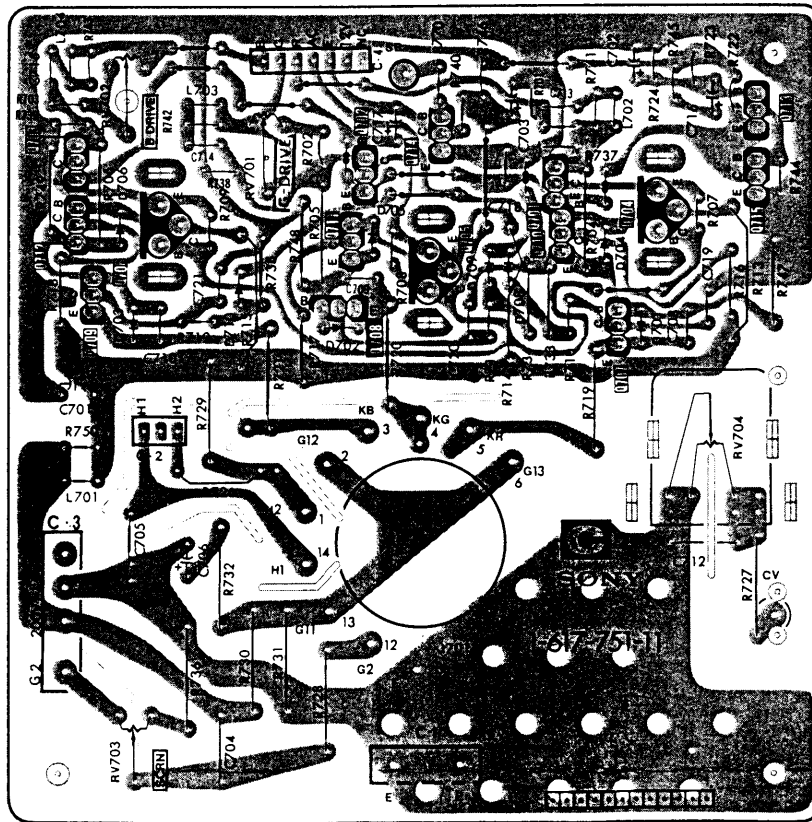
V

V-1 = A-3, IC002 = B-2, CT001 = B-3

1. Disconnect V-1 connector of V board.
2. Connect frequency counter across pin 17 of IC002 and ground.
3. Adjust CT001 for 6.0MHz±2.0kHz on the frequency counter.

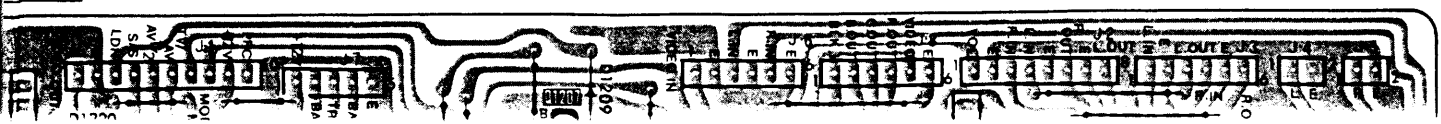


C



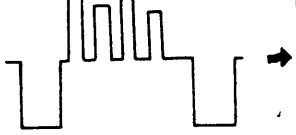
J1

[INTERFACE TV/AV SW]



2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect a digital multi-meter at pin (20) of IC402.
4. Adjust RV401 to 1.7V dc.

2. PICTURE control normal
COLOR control normal
BRIGHTNESS control center click
3. Connect an Oscilloscope at pin (17) of IC402.
4. Adjust RV402 so that same level as shown.

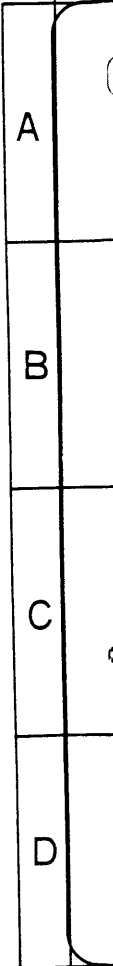
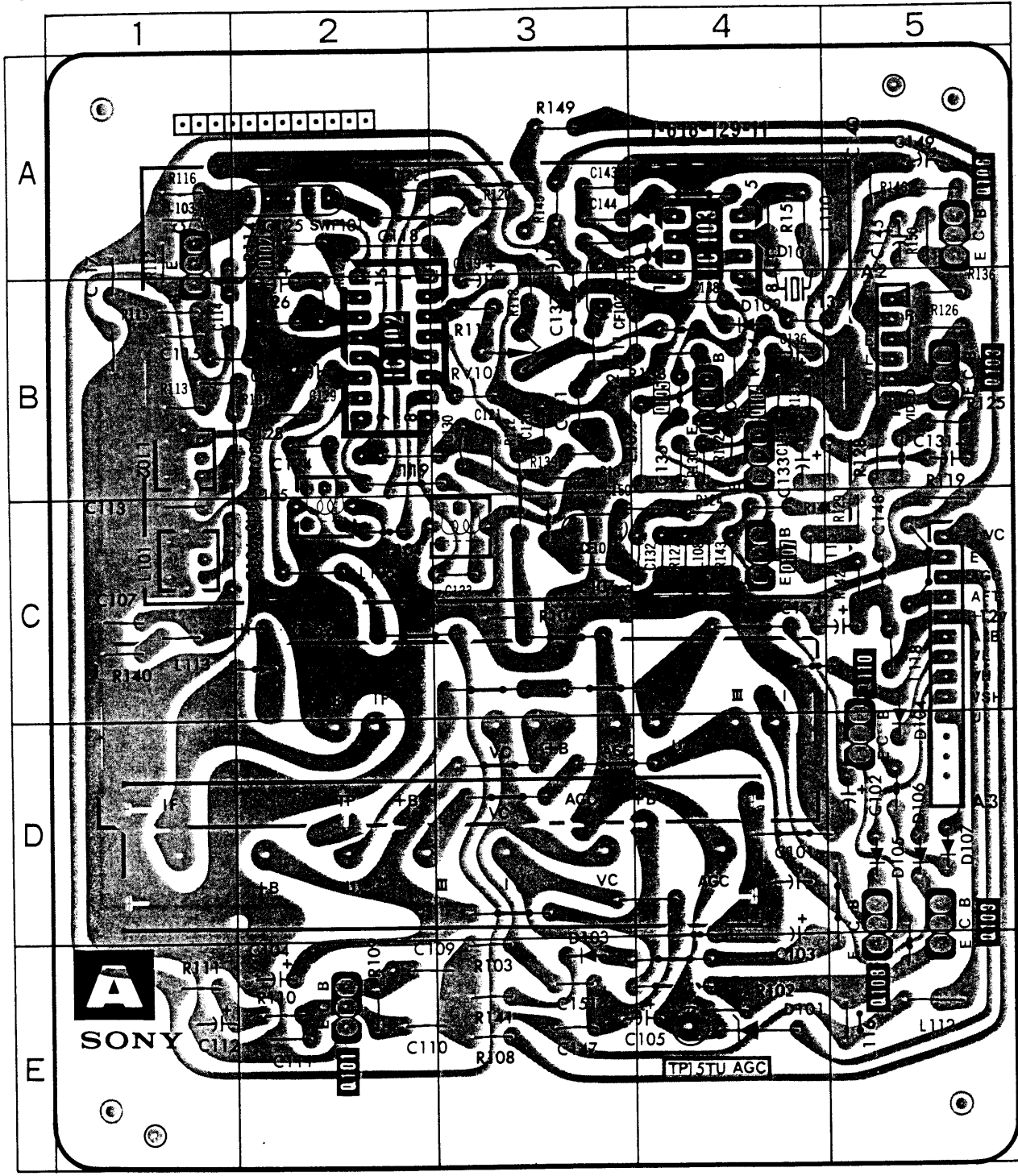


TU. AGC RV101 = B-3

A [VIF, SIF]

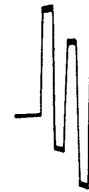
1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from picture.

D2

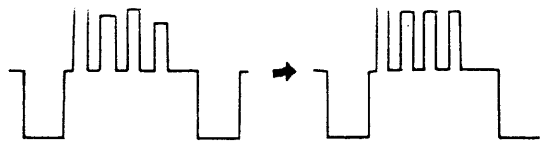


1H DELA

1. Receiv
2. Obser
3. Confir



normal
center click
at pin (17) of IC402.
same level as shown.



ground.
2. Adjust H FREQUENCY VR (RV501) for stable picture.



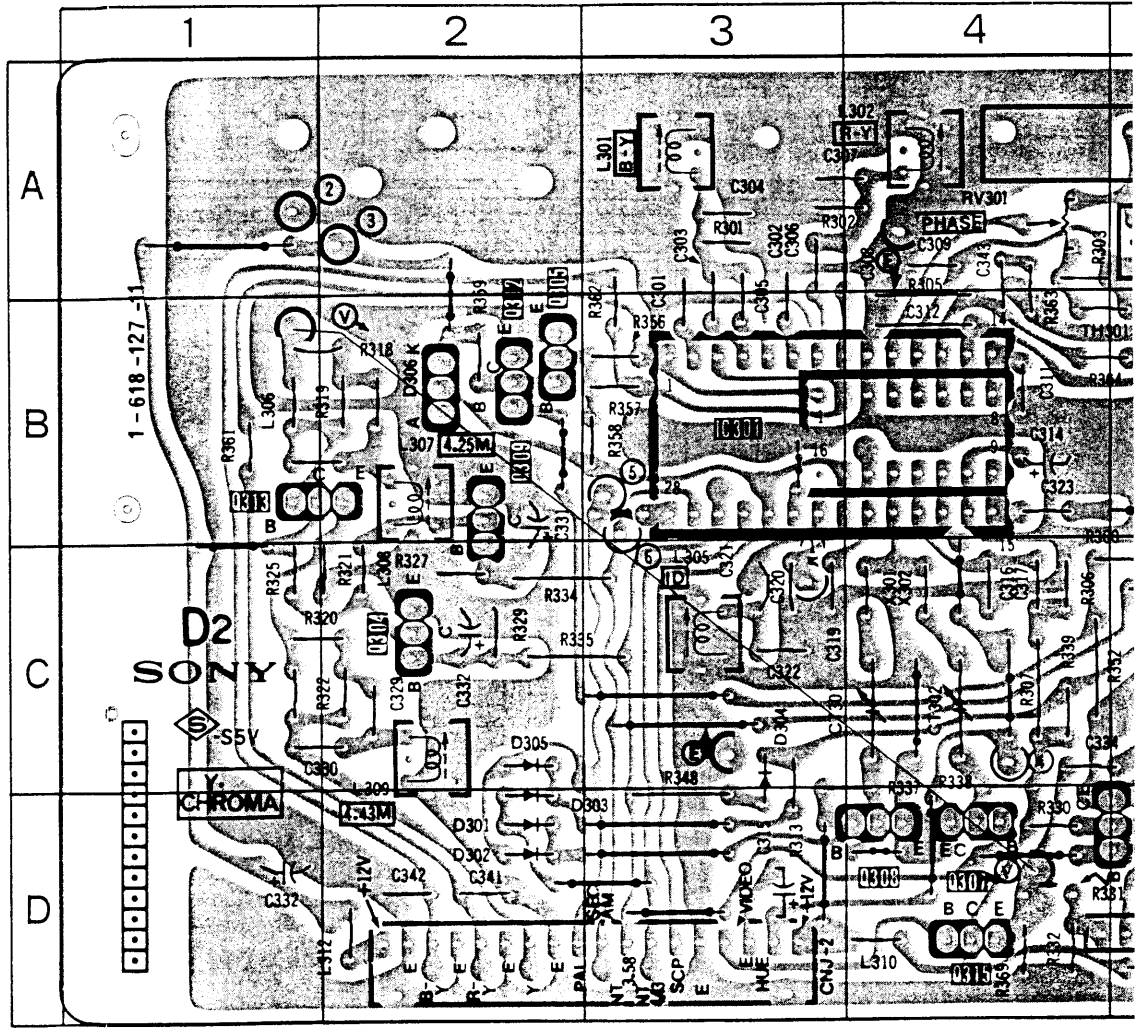
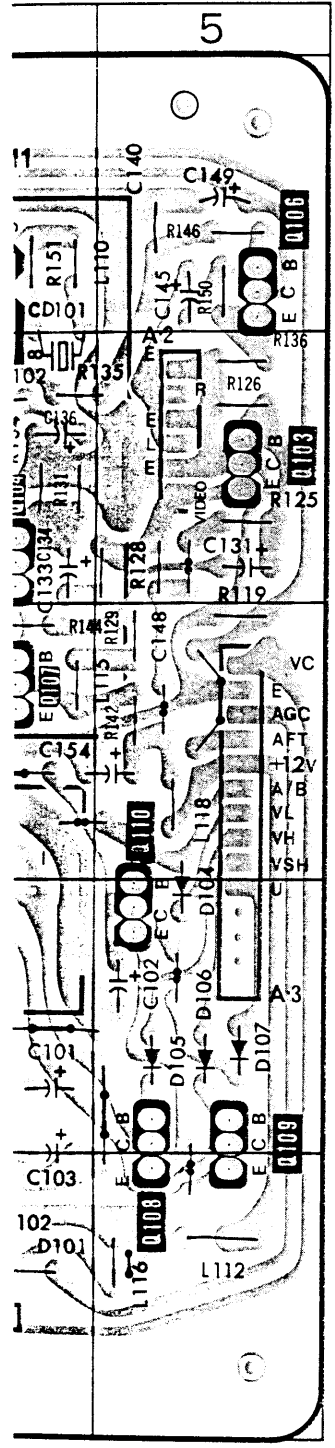
fo: too low fo: suitable fo: too high
(fo = 15,700±25Hz)

3. After completing this adjustment, disconnect a jumper wire from D board.

REF OSC IC301 = B-4, CT301 = C-4

D2 [CHROMA DECODER]

1. Receive a color bar signal.
2. Ground pin (11) of IC301 and turn color killer OFF.
3. Adjust CT301 so that the movement of picture on the CRT becomes the slowest.

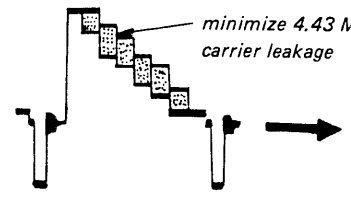
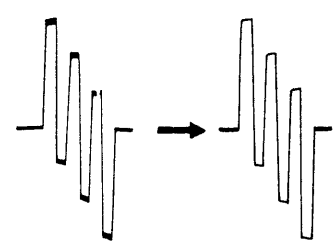


1H DELAY LINE IC301 = B-3, L303 = A-5, RV301 = A-4, L303 = A-5

Y TRAP CNJ-2 = D-2, L309 =

1. Receive a color bar signal.
2. Observe the pin (3) IC301 waveform on the oscilloscope, and adjust so that the chroma component become: minimum with L303.
3. Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture if sides while tracking with RV301 and L303.

1. Receive a color bar signal.
2. Observe the pin (7) CNJ-2 waveform on the oscilloscope and adjust L309 for minimum chroma component.



round.
 Adjust H FREQUENCY VR (RV501) for stable picture.

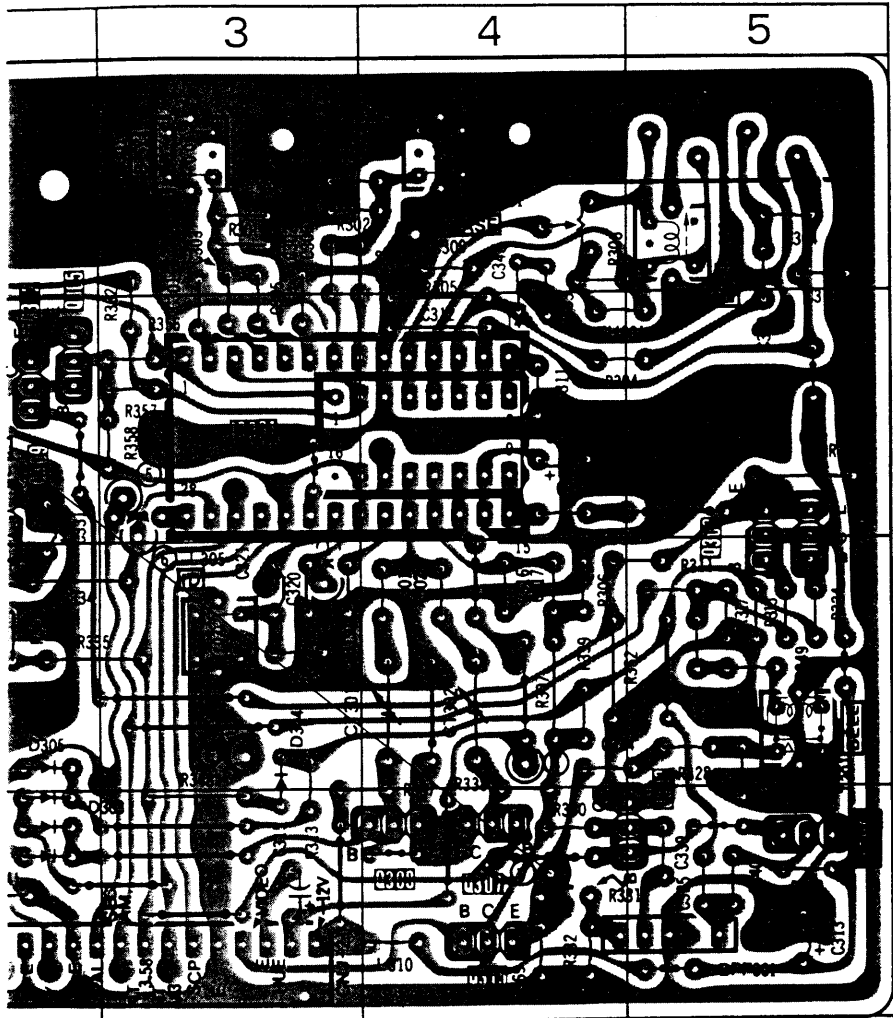


fo: too low fo: suitable fo: too high
 (fo = 15,700±25Hz)

After completing this adjustment, disconnect a jumper wire from D board.

IC301 = B-4, CT301 = C-4

Receive a color bar signal.
 Solder pin (11) of IC301 and turn color killer OFF.
 Adjust CT301 so that the movement of picture on the screen becomes the slowest.

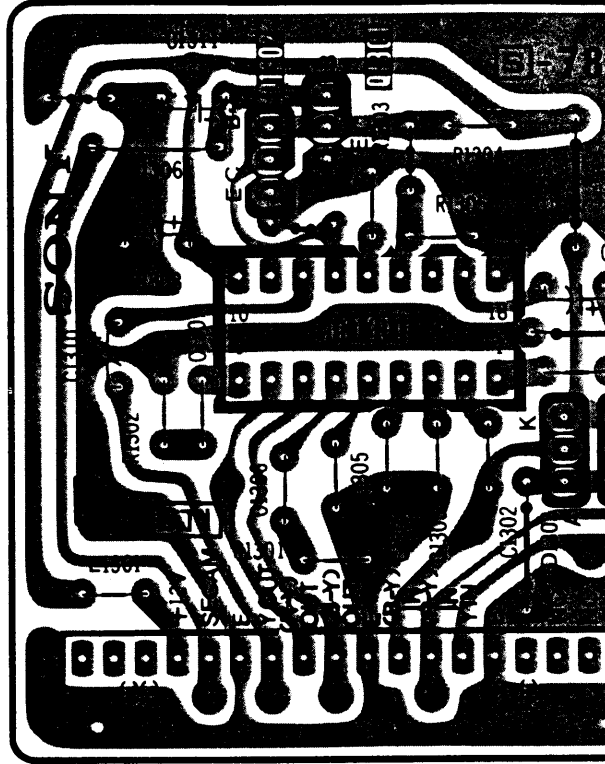
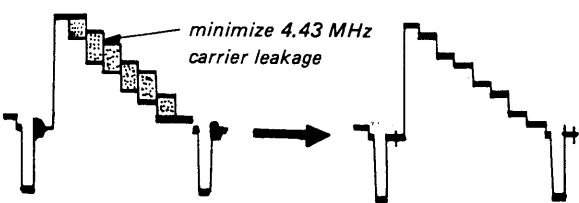


RV301 = A-4, L303 = A-5

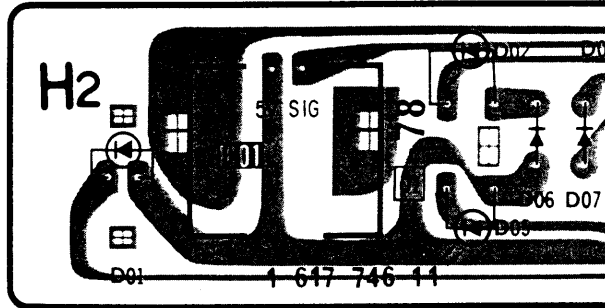
Y TRAP CNJ-2 = D-2, L309 = C-2

Use an oscilloscope to observe the waveform on pin 7 of CNJ-2. Adjust L309 to minimize the 4.43 MHz component of the carrier leakage.

1. Receive a color bar signal.
2. Observe the pin (7) CNJ-2 waveform on the oscilloscope and adjust L309 for minimum 4.43MHz component.



H2 [R/C RECEIVE]



H1 [CONTROL INDICATOR]

