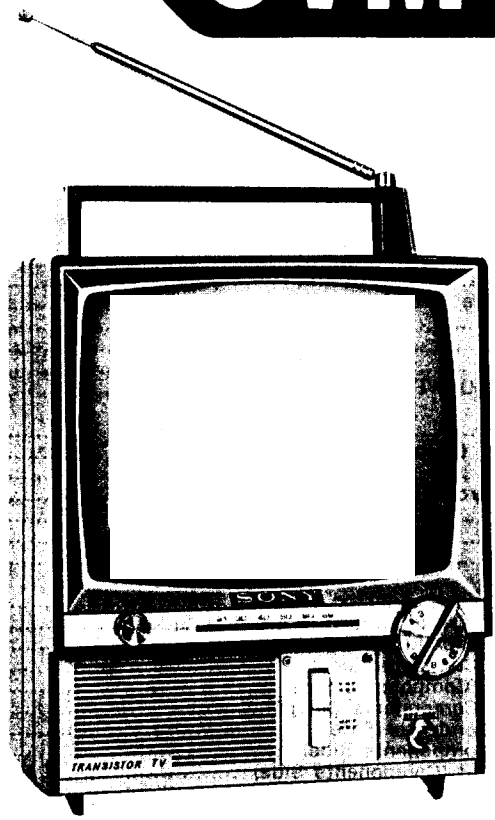
CVM-306UBP



VIDEO MONITOR

Specifications

Picture Tube: 9″, 90° Deflection, 20 mm Neck Dia., Aluminized Screen; 230-DB4
Transistor: 32
Diode: 16
Channel Coverage: British VHF Channels 1~13
British UHF Channels 21~69
IF Circuit: * VHF (405 Lines)
3 Stages With 4 Stagger Tuned Elements
Video Bandwidth: 2.5 Mc/-3dB
Video IF: 34.65 Mc, Sound IF: 38.15 Mc
* UHF (625 Lines)
4 Stages With 4 Staggers Tuned Elements
Video Bandwidth: 3.2 Mc/-3dB
Video IF: 39.5 Mc, Sound IF: 33.5 Mc
Sound System: * VHF (405 Lines)
Separate Carrier System (AM)
* UHF (625 Lines)
6.0 Mc Intercarrier System (FM)
Power Output Stage: OTL System, 300 mW
Speaker: 2-5/8″ ×4″, Impedance: 40Ω
Automatic Control: Diode AGC, Diode AFC
Power Requirement: AC 240V, 210V, 50 or 60 Hz, DC 12V
Power Consumption: AC 23W, DC 15W
Dimensions: 10-1/4″ (H)×8-5/8″ (W)×7-5/8 (D)″
Weight: 12 lb.
Glare Proofing: Smoked Filter, 70% Transparency

Video Signal Input:
Composite Video Signal
1.4Vpp, 75Ω Unbalanced
Video Signal Output:
Composite Video Signal
1.4Vpp, 75Ω Unbalanced
Audio Signal Input:
0 dB, 5KΩ Unbalanced
Audio Signal Output:
-20 dB, 10KΩ Unbalanced

SONY®
SERVICE MANUAL

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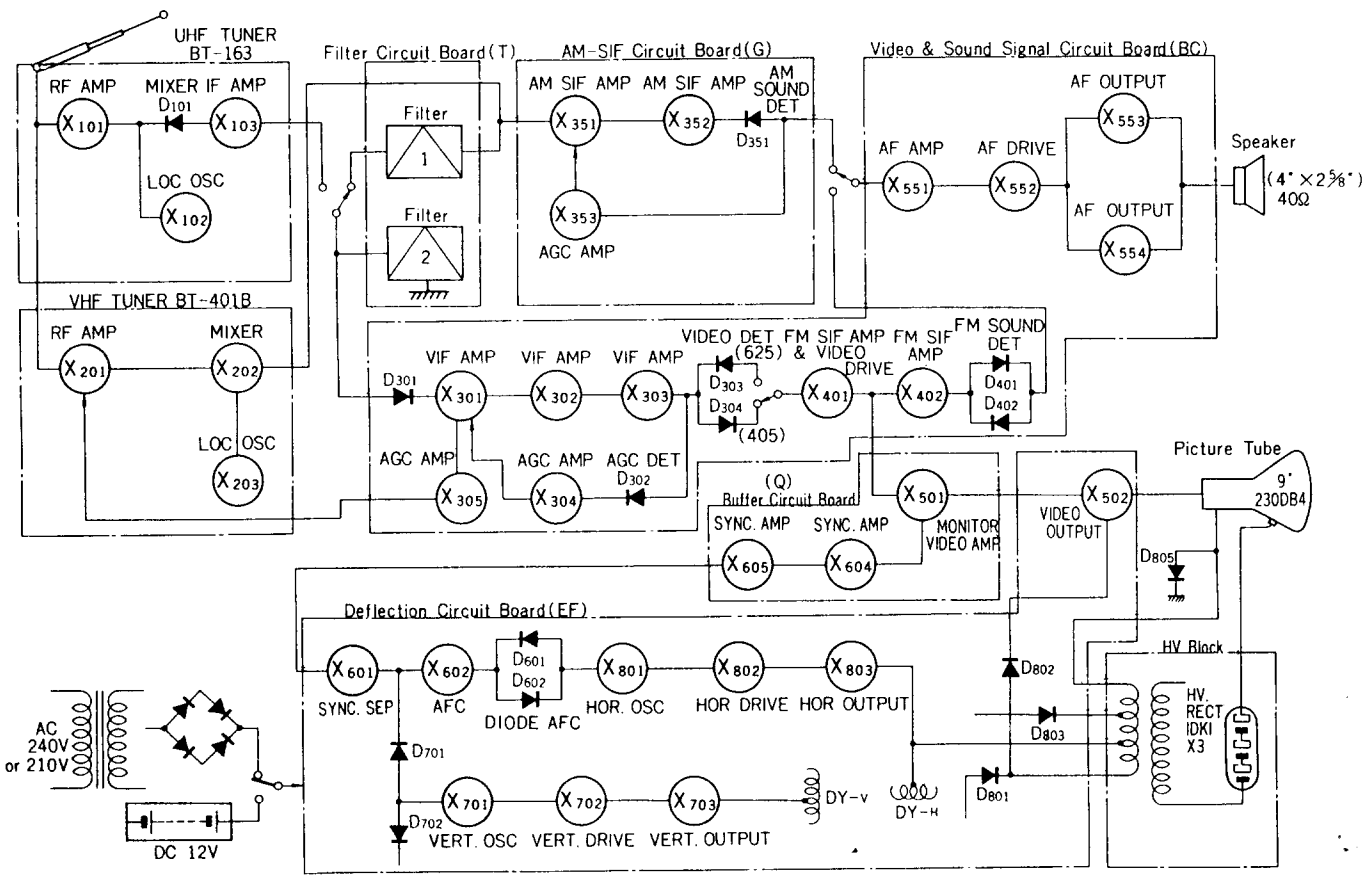
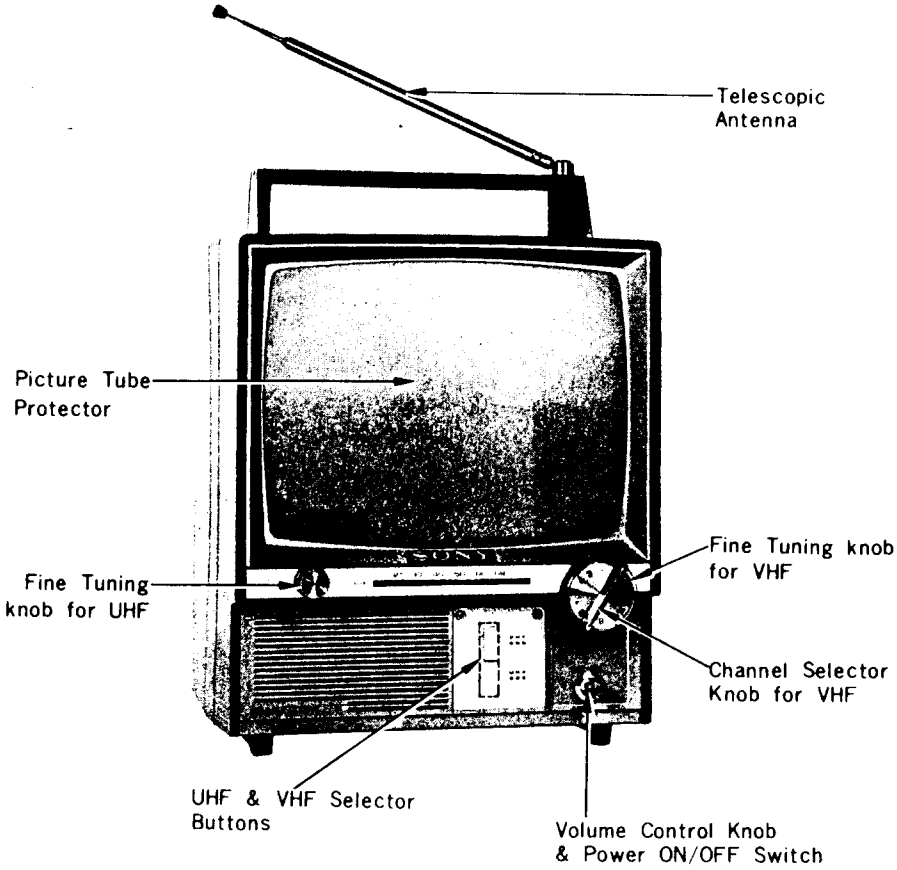
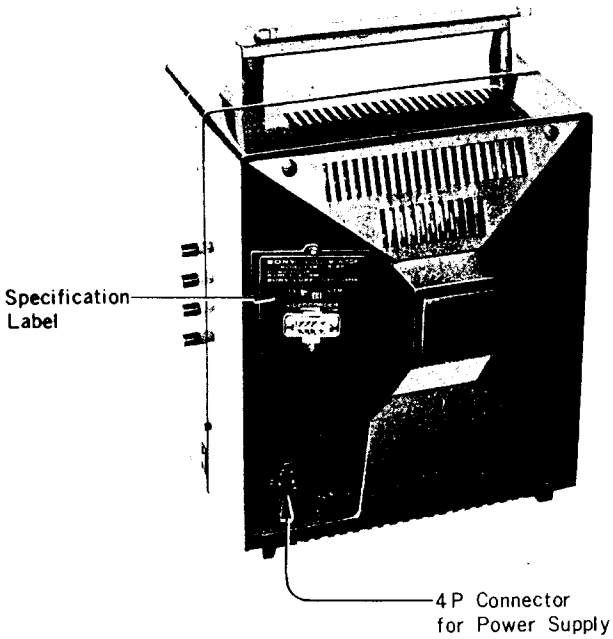
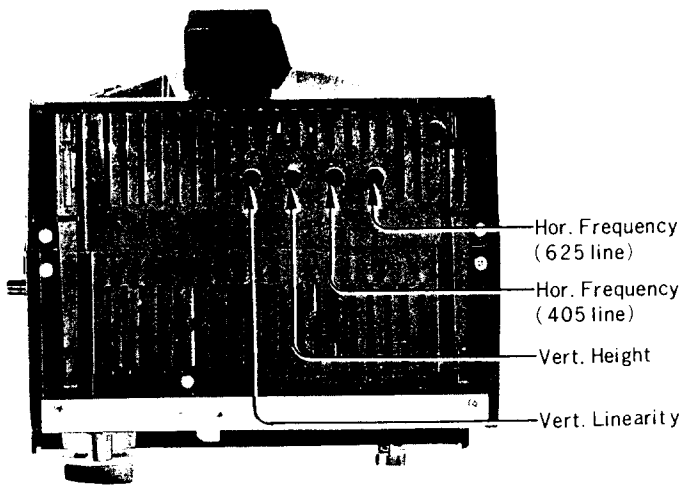
Block Diagram



External View







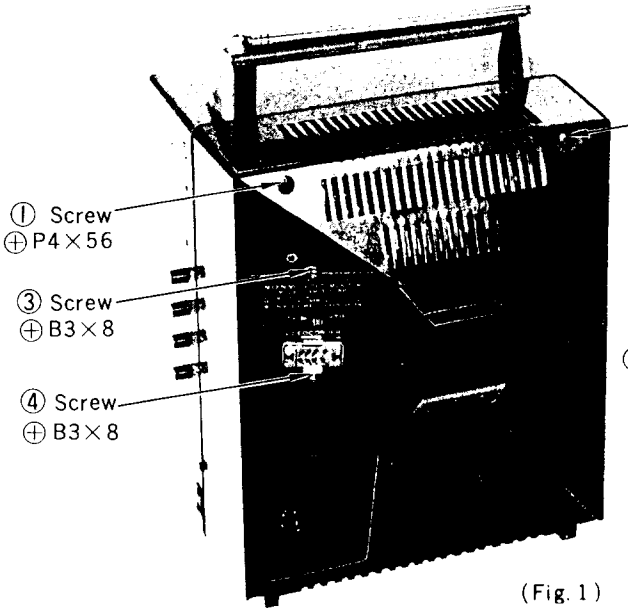
Method of Disassembling the Set

To Remove the Rear Cabinet

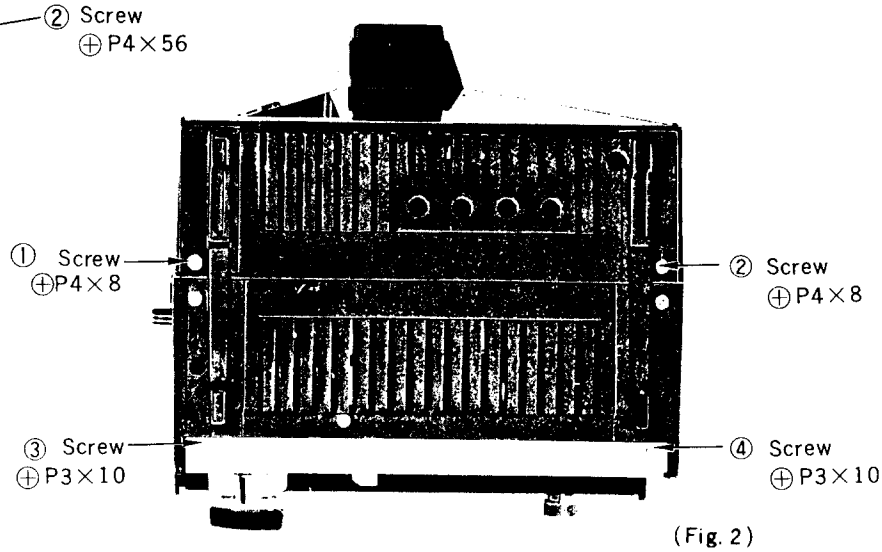
(1) Remove the four screws (①, ②, ③ and ④ in Fig. 1).

(2) Remove the two screws (① and ② in Fig. 2).

(3) Lift a Rear Cabinet straight up.



(Fig. 1)

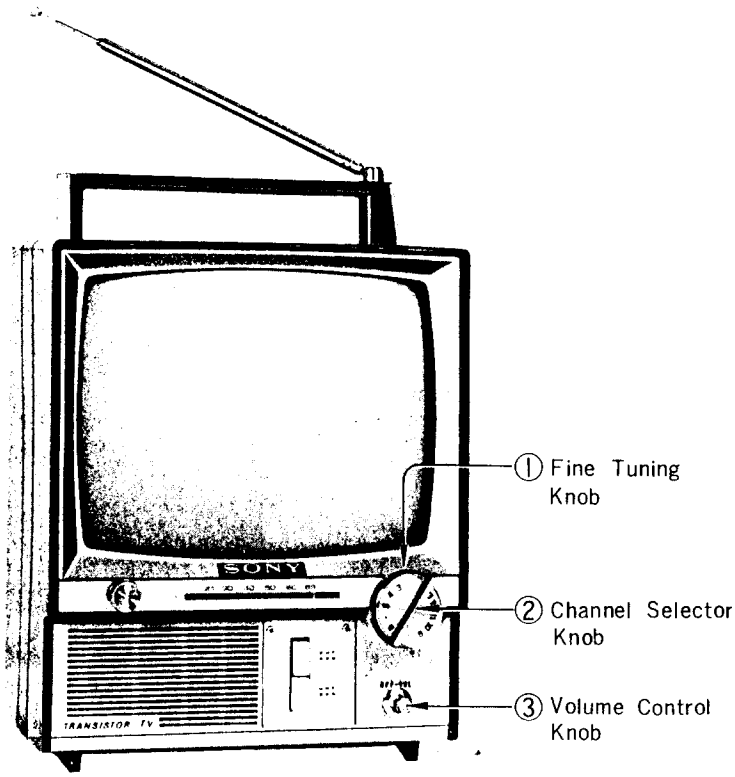


(Fig. 2)

To Remove the Speaker Grille

(1) Pull out the Volume Control knob (③ in Fig. 3), the Channel Selector knob and the Fine Tuning knob (① and ② in Fig. 3).

(2) Remove the two screws (③ and ④ in Fig. 2).



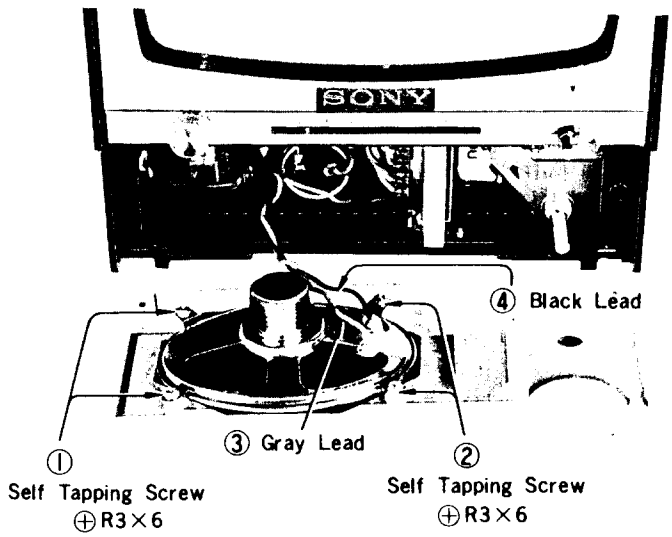
(Fig. 3)

To Remove the Speaker

(1) Remove the Speaker Grille.

(2) Remove the four screws (① and ② in Fig. 4).

(3) Unsolder the Gray lead and the Black lead (③ and ④ in Fig. 4).



(Fig. 4)

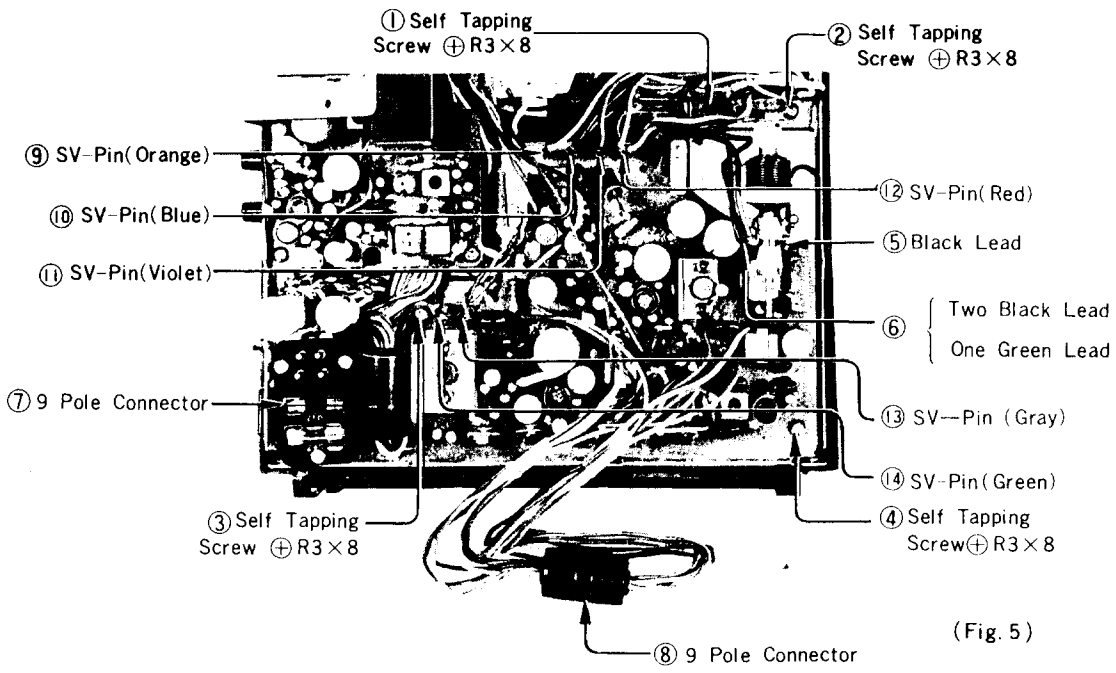
To Remove the Deflection Circuit Board

(1) Unsolder the four leads of the Width Control Coil (⑤ and ⑥ in Fig. 5).

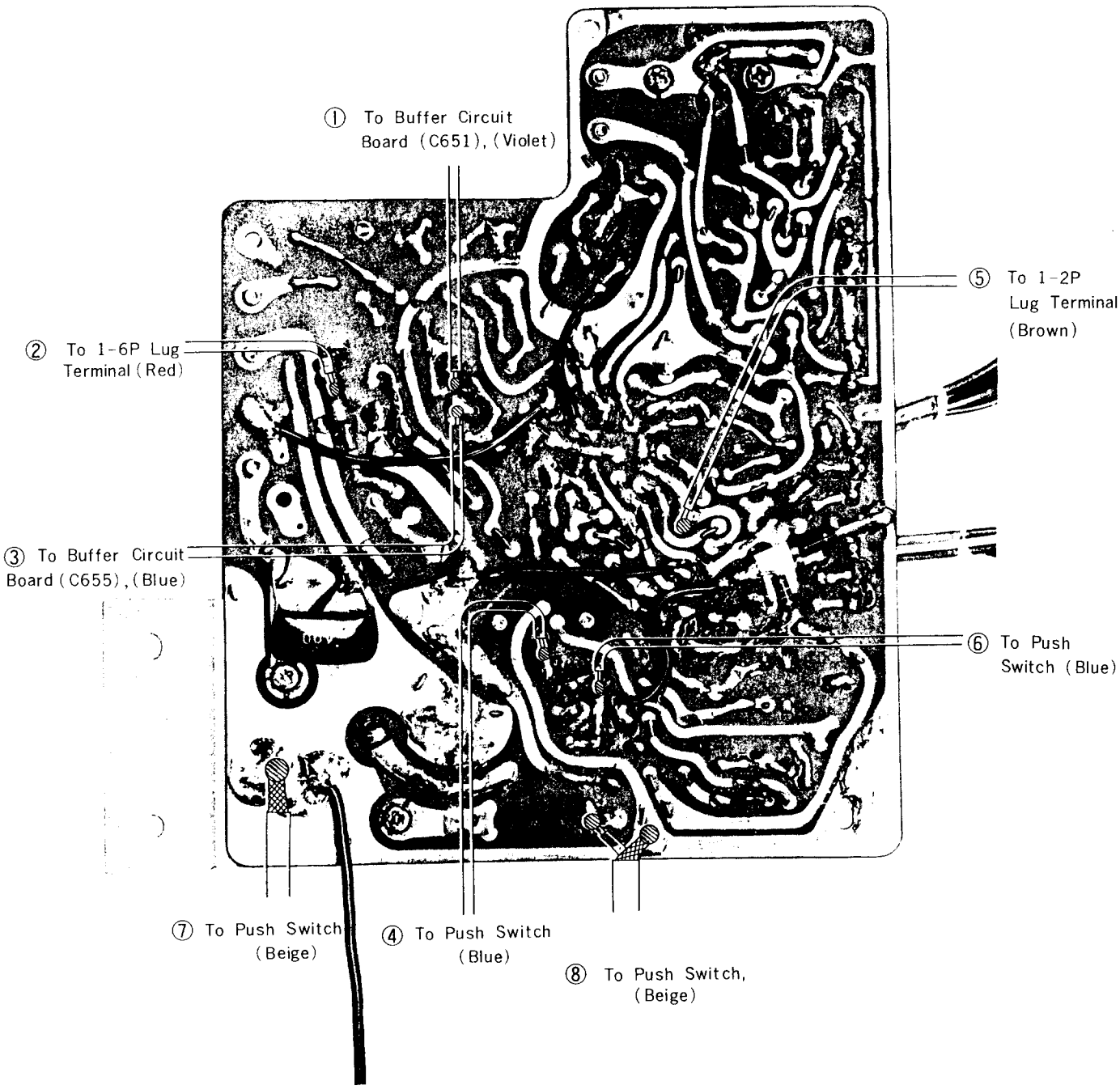
(2) Remove the four screws (①, ②, ③ and ④ in Fig. 5).

(3) Pull out the two 9 Pole Connectors (⑦ and ⑧ in Fig. 5) and the Six SV-Pins (Circuit Connecting Pin) (⑨, ⑩, ⑪, ⑫, ⑬ and ⑭ in Fig. 5).

(4) Unsolder the six leads (①, ②, ③, ④, ⑤ and ⑥ in Fig. 6) and the two shielded wires (⑦ and ⑧ in Fig. 6).



(Fig. 5)

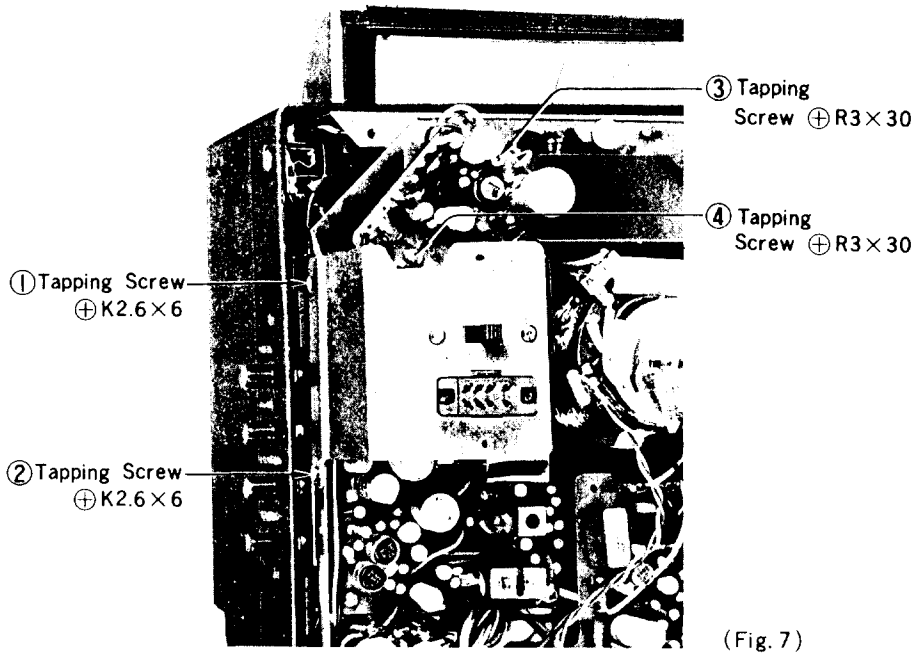

① To Buffer Circuit Board (C651), (Violet)
② To 1-6P Lug Terminal (Red)
③ To Buffer Circuit Board (C655), (Blue)
④ To Push Switch (Blue)
⑤ To 1-2P Lug Terminal (Brown)
⑥ To Push Switch (Blue)
⑦ To Push Switch (Beige)
⑧ To Push Switch, (Beige)

(Fig. 6)

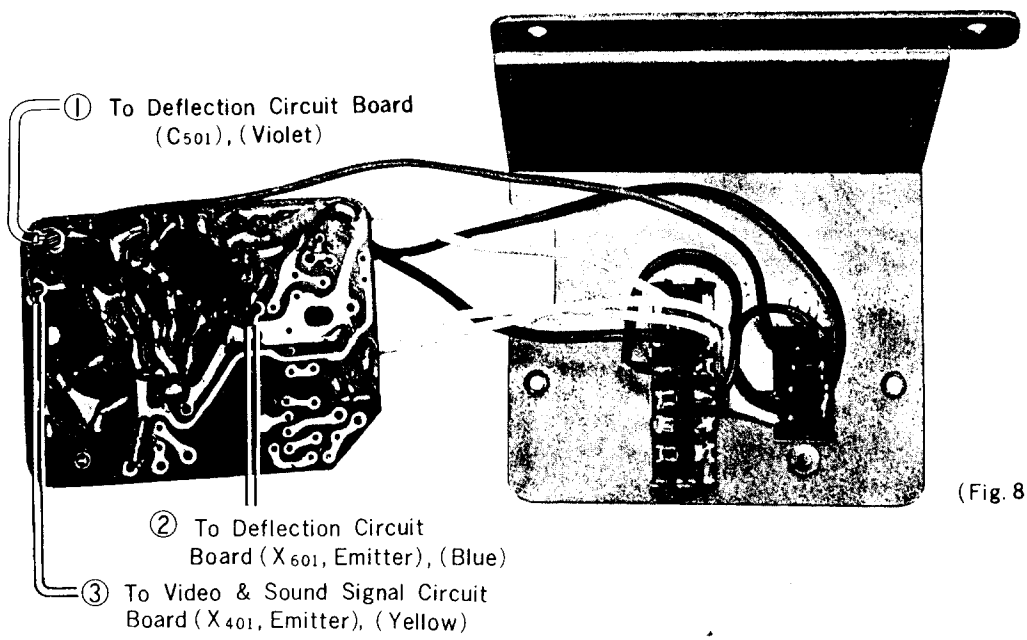
To Remove the Buffer Circuit Board

(1) Remove the four screws (①, ②, ③ and ④ in Fig. 7).

(2) Unsolder the three leads (Violet, Blue & Yellow) (①, ② and ③ in Fig. 8).



(Fig. 7)



(Fig. 8)

To Remove the Video & Sound Signal Circuit Board

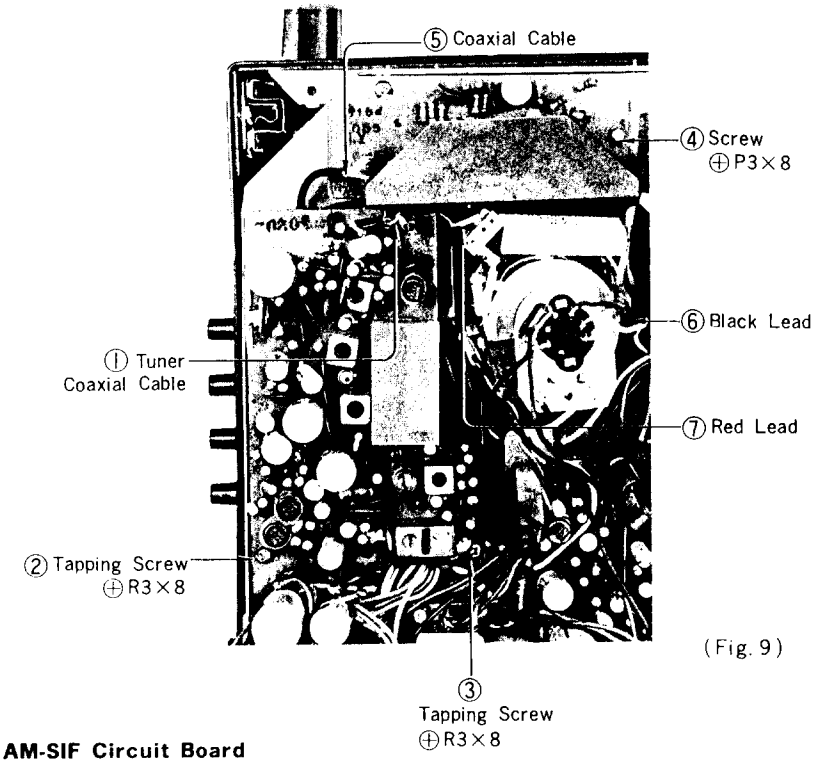
(1) Remove the Buffer Circuit Board.

(2) Disconnect the Tuner Coaxial Cable (① in Fig. 9).

(3) Remove the two screws (② and ③ in Fig. 9).

(4) Remove the shield Plate "B" (see exploded diagram (1)).

(5) Unsolder the five leads (①, ②, ③, ④ and ⑤ in Fig. 11) and the two shielded wires (⑥ and ⑦ in Fig. 11).



(Fig. 9)

To Remove the AM-SIF Circuit Board

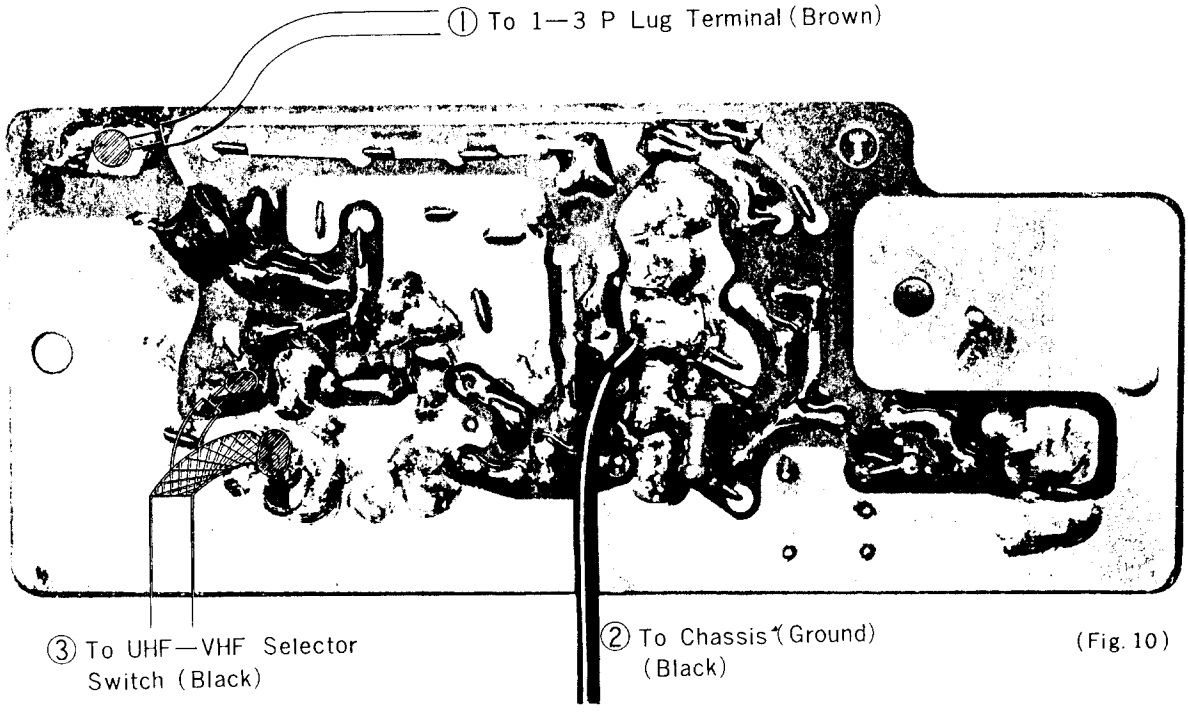
(1) Remove the Buffer Circuit Board.

(2) Disconnect the Co-axial Cable (⑤ in Fig. 9).

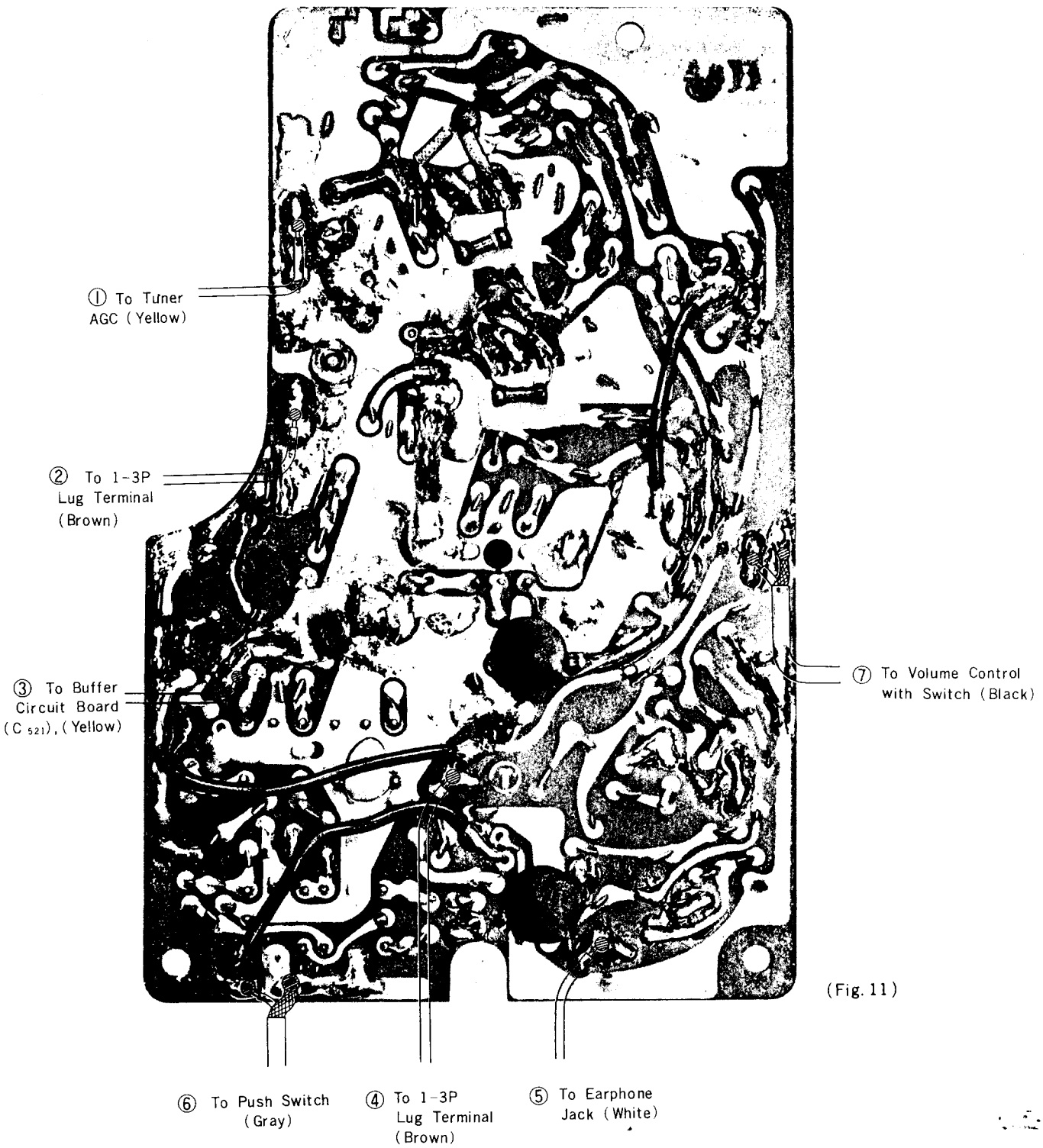
(3) Remove the Screw (④ in Fig. 9).

(4) Unsolder the Black lead on the part of the chassis (② in Fig. 10).

(5) Unsolder the Brown lead and the shielded wire (① and ③ in Fig. 10).



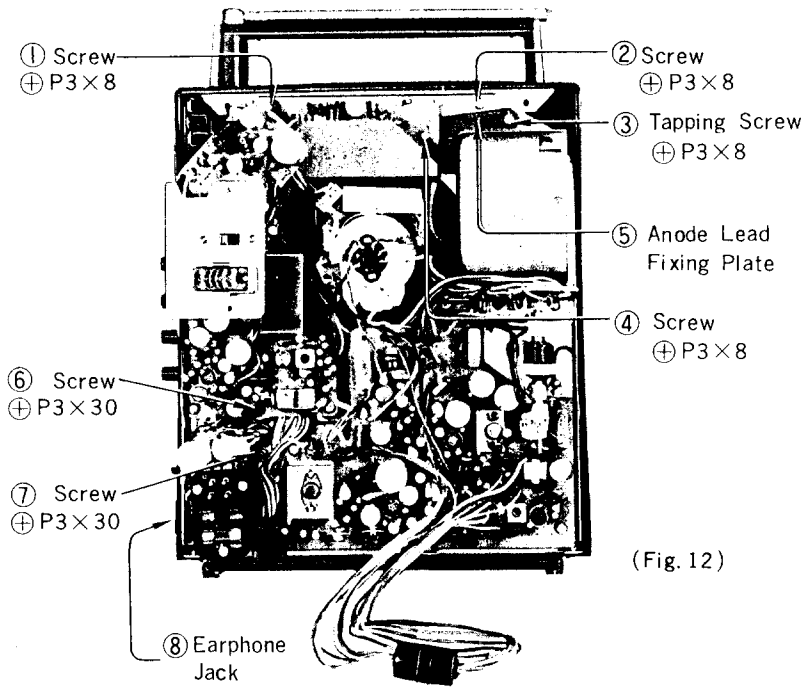
(Fig. 10)


① To Tuner AGC (Yellow)
② To 1-3P Lug Terminal (Brown)
③ To Buffer Circuit Board (C 521), (Yellow)
⑦ To Volume Control with Switch (Black)
⑥ To Push Switch (Gray)
④ To 1-3P Lug Terminal (Brown)
⑤ To Earphone Jack (White)

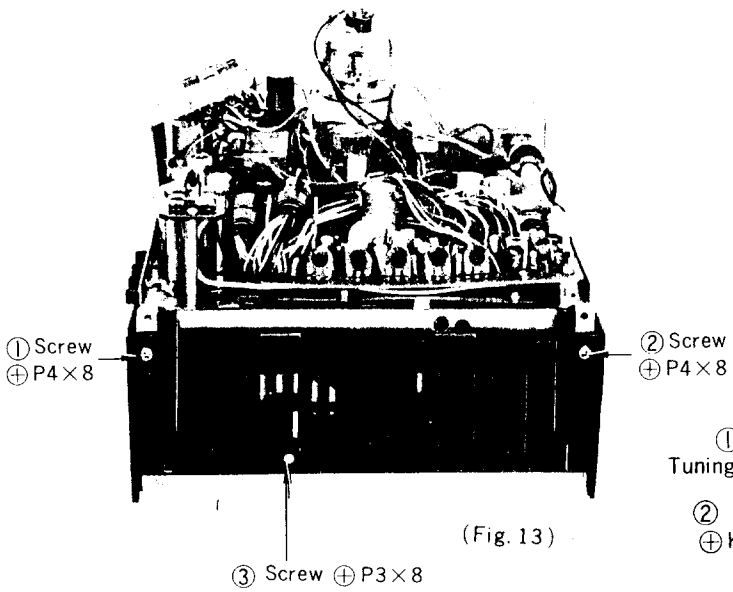
(Fig. 11)

To Remove the High Voltage Block

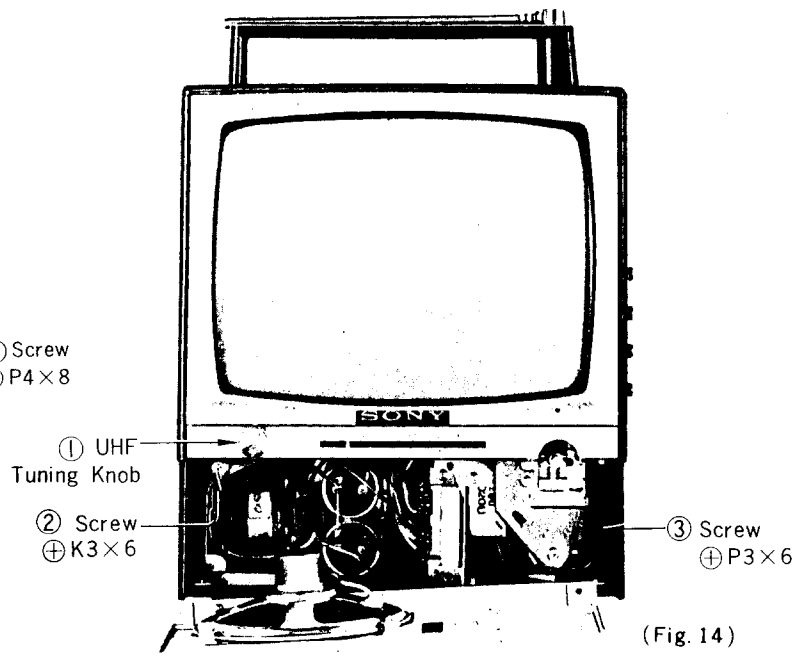
(1) Remove the two Screws (① and ② in Fig. 12).
(2) Remove the three Screws (①, ② and ③ in Fig. 13).
(3) Remove the Speaker Grille.
(4) Pull out the UHF Tuning Knob (① in Fig. 14).
(5) Remove the two Screws (② and ③ in Fig. 14).
(6) Remove the Anode Cap from the Picture Tube.
(7) Remove the two Screws (③ and ④ in Fig. 12).
(8) Remove the Anode Lead Fixing Plate (⑤ in Fig. 12).
(9) Unsolder the Red lead on the SV-pin (⑫ in Fig. 5).
(10) Unsolder the shielded wire and the black lead on the Lug Terminal (1-6P).
(11) Pull out the three SV-Pins (Circuit Connecting Pin) (⑨, ⑩ and ⑪ in Fig. 5).



(Fig. 12)



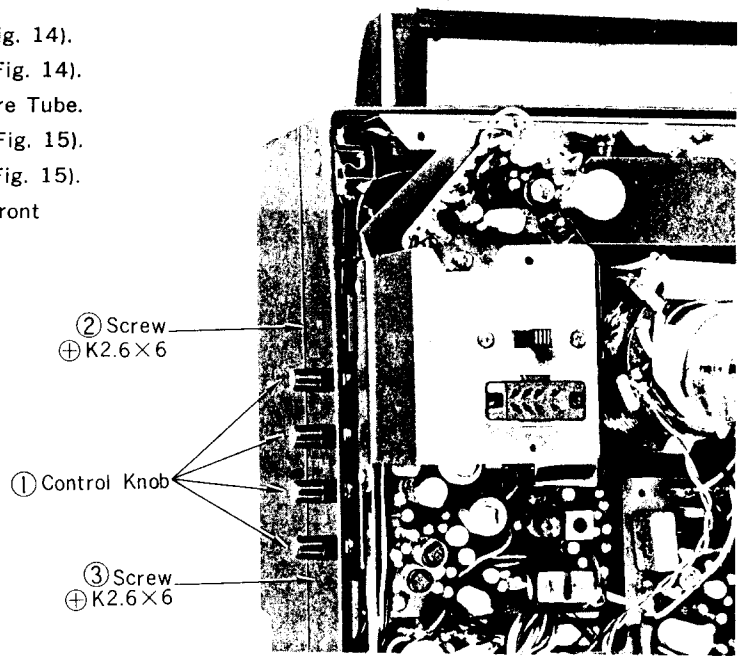
(Fig. 13)



(Fig. 14)

To Remove the Front Cabinet from the Chassis

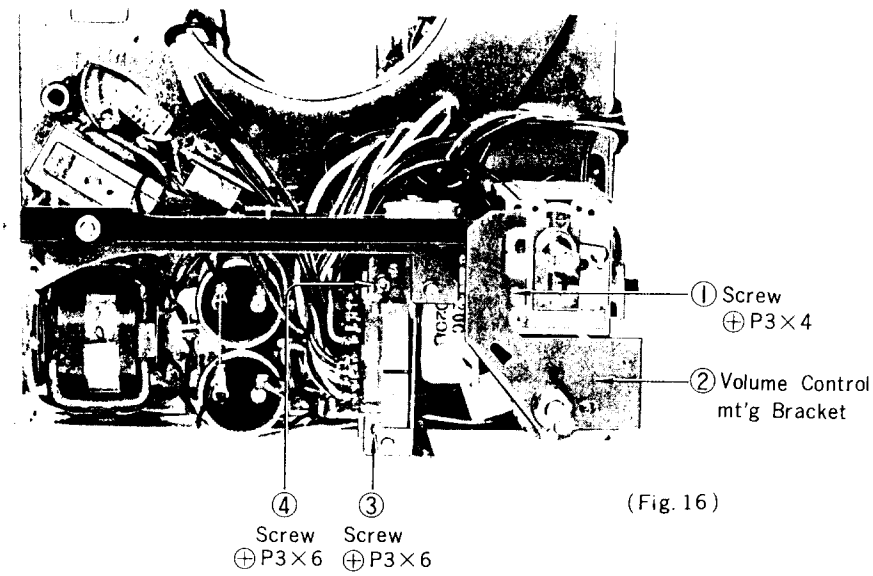
(1) Remove the two screws ① and ② in Fig. 12).
(2) Remove the three screws ① ② and ③ in Fig. 13).
(3) Remove the Speaker Grille.
(4) Pull out the UHF Tuning knob ① in Fig. 14).
(5) Remove the two screws ② and ③ in Fig. 14).
(6) Remove the Anode Cap from the Picture Tube.
(7) Pull out the four Control knobs ① in Fig. 15).
(8) Remove the two screws ② and ③ in Fig. 15).
(9) Pull out the Earphone Jack from the Front Cabinet ⑧ in Fig.12).



(Fig. 15)

To Remove the VHF Tuner

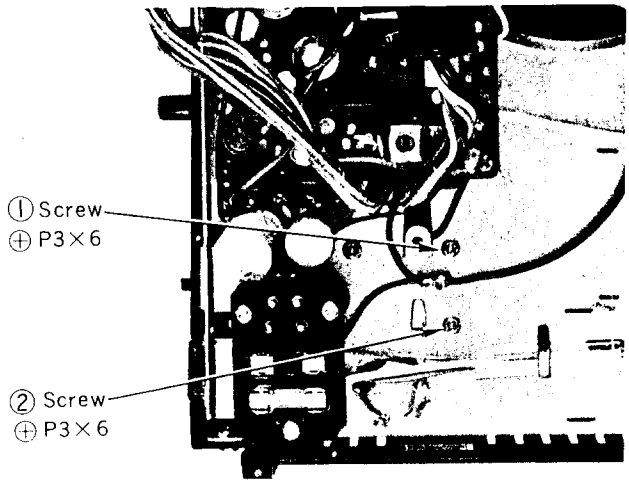
(1) Remove the Rear Cabinet and the Front Cabinet.
(2) Remove the Speaker.
(3) Remove the two Screws ⑥ and ⑦ in Fig. 12).
(4) Unsolder the DY leads (Black & Red leads) ⑥ and ⑦ in Fig. 9).
(5) Unsolder the green lead from VCH ⑭ in Fig. 5).
(6) Pull out the two SV-Pins (Circuit Connecting Pin) ⑬ and ⑭ in Fig. 5).
(7) Unsolder the two Black leads on the Ground spring. (see Exploded diagram (2)).
(8) Remove the Screw ① in Fig. 16) and remove the Volume Control Mounting Bracket from the Tuner (② in Fig. 16).
(9) Unsolder the Tuner output lead (Co-axial Cable 1.7C-2V) on the Filter Circuit Board (T Board).
(10) Unsolder the Tuner input lead (Co-axial Cable 0.8D-2V) on the UHF-VHF Selector Switch.
(11) Unsolder the two leads (Yellow and Brown leads)on the Feed-Through Capacitor of the VHF-Tuner.



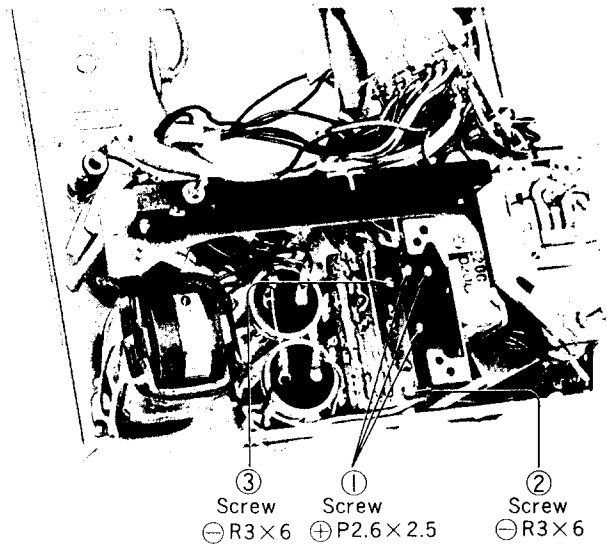
(Fig. 16)

To Remove the UHF Tuner

(1) Remove the Rear Cabinet and the Front Cabinet.
(2) Remove the Deflection Circuit Board.
(3) Remove the two screws (① and ② in Fig.17).
(4) Remove the two screws (③ and ④ in Fig. 16).
(5) Remove the three screws (① in Fig. 18).
(6) Unsolder the UHF-Tuner Input Cable (Co-axial Cable 1.7C-2V) on the Ext. ANT. Jack.
(7) Unsolder the two UHF-Tuner Output Cable (Co-axial Cable 0.8D-2V) on the UHF-VHF Selector Switch and the Filter Circuit Board.



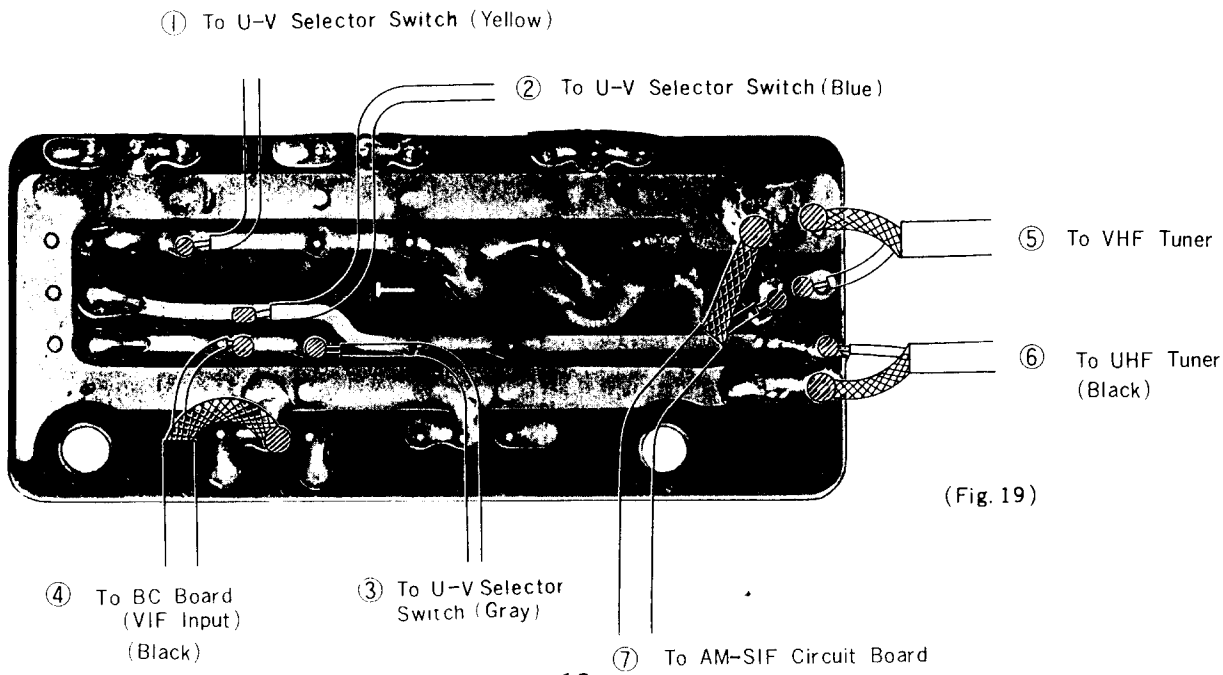
(Fig. 17)



(Fig. 18)

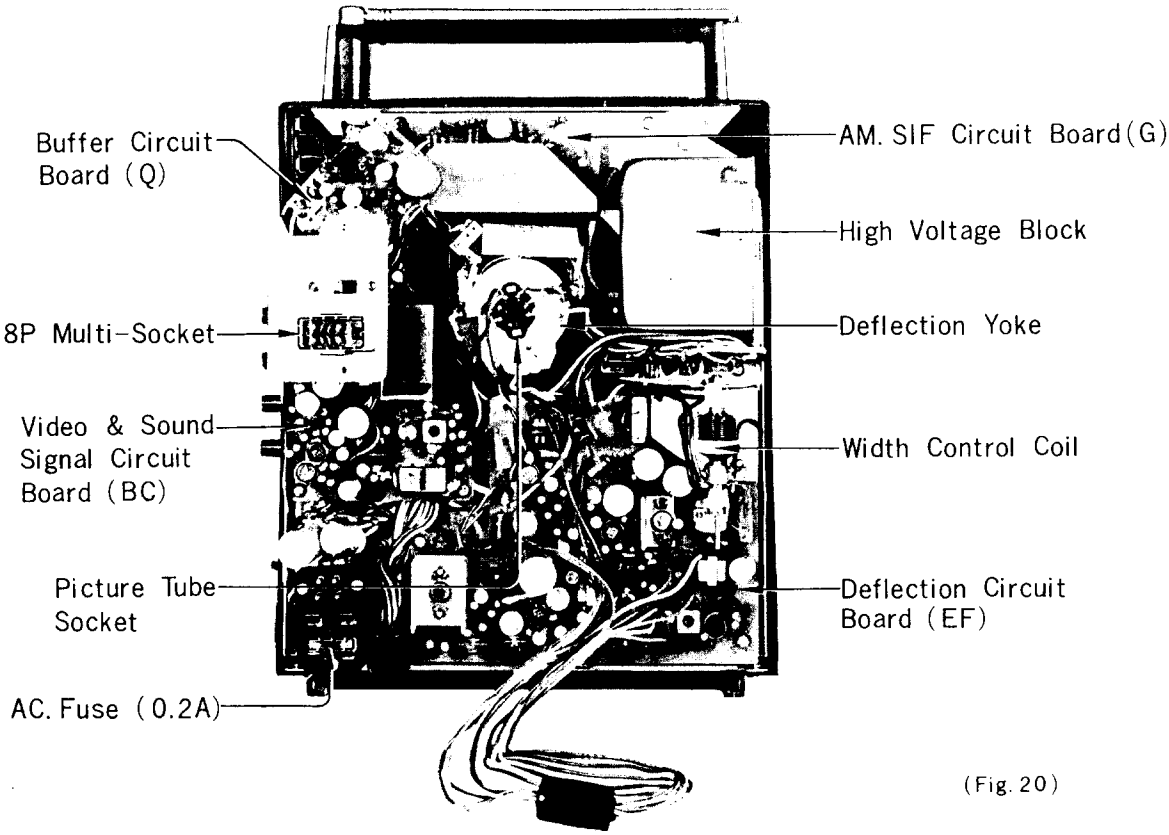
To Remove the Filter Circuit Board

(1) Remove the Rear Cabinet and the Front Cabinet.
(2) Remove the two screws (③ and ④ in Fig. 16).
(3) Unsolder the three leads (Yellow, Blue and Gray) (①, ② and ③ in Fig. 19) and the four Co-axial Cables ④, ⑤, ⑥ and ⑦ in Fig. 19).
(4) Remove the two screws (② and ③ in Fig. 18).



(Fig. 19)

Electrical Major Parts Location



(Fig. 20)

Adjustment and Alignment

There are five Circuit Boards in the CVM-306UBP, that is, Filter Circuit Board, Video & Sound Signal Circuit Board, AM SIF Circuit Board, Deflection Circuit Board and Buffer Circuit Board.

When it is necessary to make adjustments for Video & Sound Signal Circuit Board, never fail to adjust Filter Circuit Board first.

■ Filter Circuit Board

Adjustment of Filter Circuit

(1) Connect a Sweep Generator and a Marker Generator to the Test Point of Tuner through a 0.02μF capacitor.

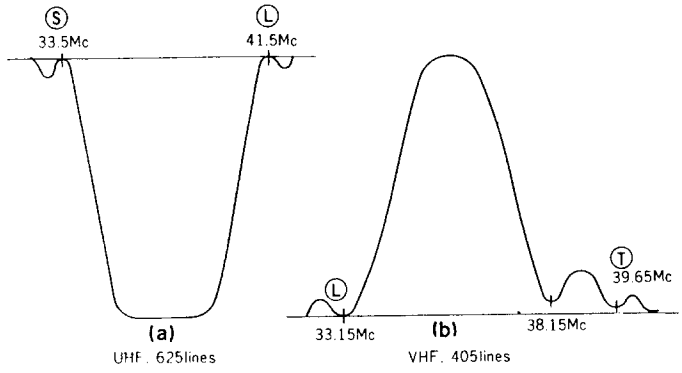
(2) Set the Selector Switch to UHF.

Step	Marker Gen. Freq.	Adjust	Correct Marker position on the response curve
1.	33.5 Mc	TRAP-5	Ⓢ in Fig. 21 (a)
2.	41.5 Mc	TRAP-6	Ⓣ in Fig. 21 (a)

(3) Change the setting to VHF.

Step	Marker Gen. Freq.	Adjust	Correct Marker position on the response curve
3.	33.15 Mc	TRAP-4	Ⓛ in Fig. 21 (b)
4.	39.65 Mc	TRAP-3	Ⓣ in Fig. 21 (b)
5.	38.15 Mc	TRAP-2 & TRAP-3	Ⓢ in Fig. 21 (b)

Repeat the above steps 1 to 5 until a proper marker position on the response curve similar to Fig. 21 is obtained.



(Fig. 21)

■ Video and Sound Signal Circuit Board

Adjustment of VIF Circuit

The VIF Adjustment must be performed after Filter Circuit Adjustment.

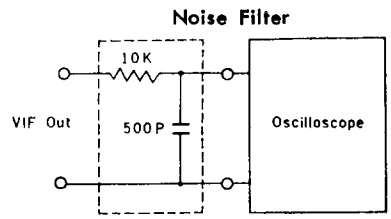
(1) Remove the Tuner Output Cable from the Filter Circuit Board.
Connect a Voltmeter across R_{307} (270Ω) and set the Adjustable Resistor (VR_{301}, 5 KΩ, for AGC Bias) so that the Voltmeter reads between 0.27 V and 0.3 V. Connect the Tuner Output Cable to the Filter Circuit Board as before.

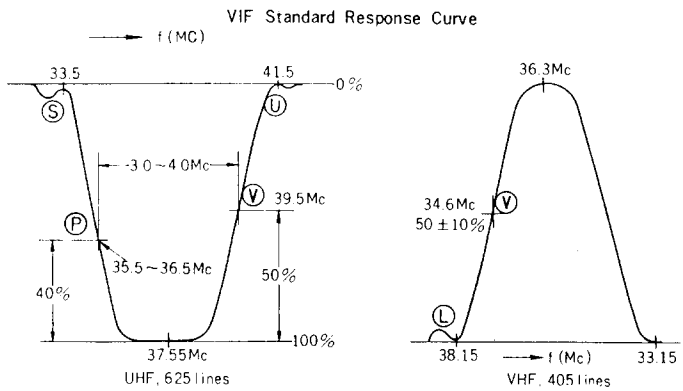
(2) Connect a Sweep Generator and a Marker Generator to the Test Point of the Tuner through a 0.02μF capacitor.

(3) Connect an Oscilloscope across R_{321} (VIF DET OUT) through a Noise Filter shown below.

(4) Set the Selector Switch to UHF.

Step	Marker Gen. Freq.	Adjust	Correct Marker position on the response curve
1.	38 Mc	VIFT-4	Peak point in Fig. 22
2.	35.5~36.5 Mc	VIFT-2	40% point, Ⓟ in Fig. 22
3.	39.5 Mc	VIFT-3	50% point, Ⓥ in Fig. 22





(Fig. 22)

Repeat the above adjustments until the ideal response curve (peak point: 1 Vpp) shown in Fig. 22 is obtained.

If the curve cannot be obtained, try to change the value of adjustment resistors, R_{308} and R_{315} on the Signal Circuit Board.

After the adjustment for UHF, change the setting of the TV from UHF to VHF. Usually the same response curve shown in Fig. 22, will be obtained without further adjustment.

Apply a 34.6 Mc signal from the Marker Generator and check that the marker is at 50± 10%. (Ⓥ in Fig. 22) If the marker is out of the range, try to change the value of C_{321} (3~10μμF) until a satisfactory curve is obtained.

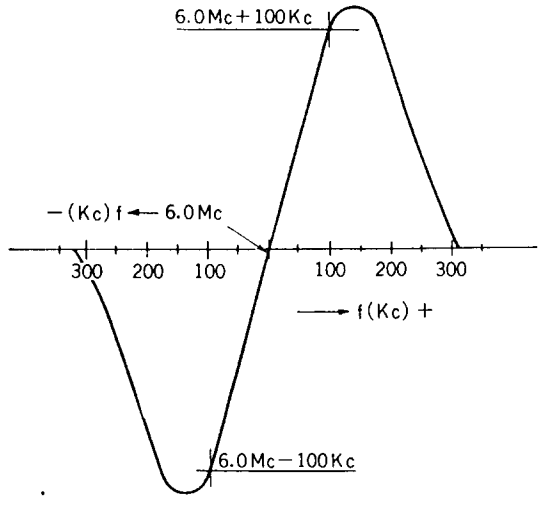
Make sure that the output level does not vary. (0.05 V across R_{307})

After the VHF Adjustment, readjust the UHF VIF Response Curve again.

Adjustment of FM·SiF Circuit

Step	Preparation	Adjust
1.	1) Set the Brightness Control to the optimum and the Contrast Control to the maximum position. 2) Disconnect the Tuner Output Cable. 3) Set the Selector Switch to UHF. 4) Connect a Standard Signal Generator to the Video DET Output (across R_{321}) and apply a 6 Mc signal. The 6 Mc stripes will appear on the Picture Tube.	**TRAP-7** so that the 6 Mc stripes disappear from the Picture Tube.
2.	1) Disconnect the Tuner Output Cable. 2) Connect the Standard Signal Generator to the Video Detector Output Terminals. 3) Connect a Voltmeter between the junction of R_{409}–C_{411} and ground. 4) Apply a 6 Mc signal from the Signal Generator.	**FM SIFT-1 and primary winding of FM SIFT-2 (pink)** for maximum reading on the Voltmeter.
3.	1) Connect a Sweep Generator and a Standard Signal Generator across R_{321} through a 1.5 KΩ Resistor. 2) Connect an Oscilloscope in parallel with Capacitor. (C_{412}) 3) Apply a 6 Mc (AM, MOD) Signal from the Signal Generator. 4) Set the Sweep Generator on. S curve will appear on the Oscilloscope. (Fig. 23)	**Secondary winding of FM SIFT-2 (blue)** to obtain minimum modulated waveform.

FM·SIF Standard Response Curve



(Fig. 23)

■ AM-SIF Circuit Board

Adjustment of AM·SIF Circuit

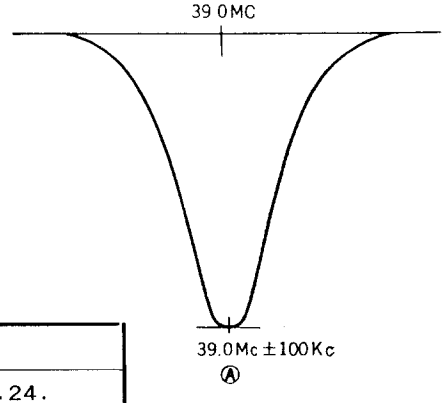
(1) Disconnect the Tuner Output Cable and AM SIF Output Cable.

(2) Connect a Sweep Generator and a Marker Generator to the AM·SIF Input Connector.

(3) Connect an Oscilloscope in parallel with the Capacitor (C_{367}).

(4) Apply a 39.0 Mc signal from the Marker Generator.

AM·SIF Standard Response Curve



(Fig. 24)

Step	Adjust
1.	**TRAP-1** to position the marker on the top Ⓐ of the curve shown in Fig. 24.
2.	**AM SIFT-1 and AM SIFT-2** for maximum curve while keeping the marker position to Ⓐ.

Repeat the above steps 1 and 2 until a satisfactory AM SIF curve is obtained.

■ Deflection Circuit Board

Adjustment of Deflection Circuit

British TV Standard

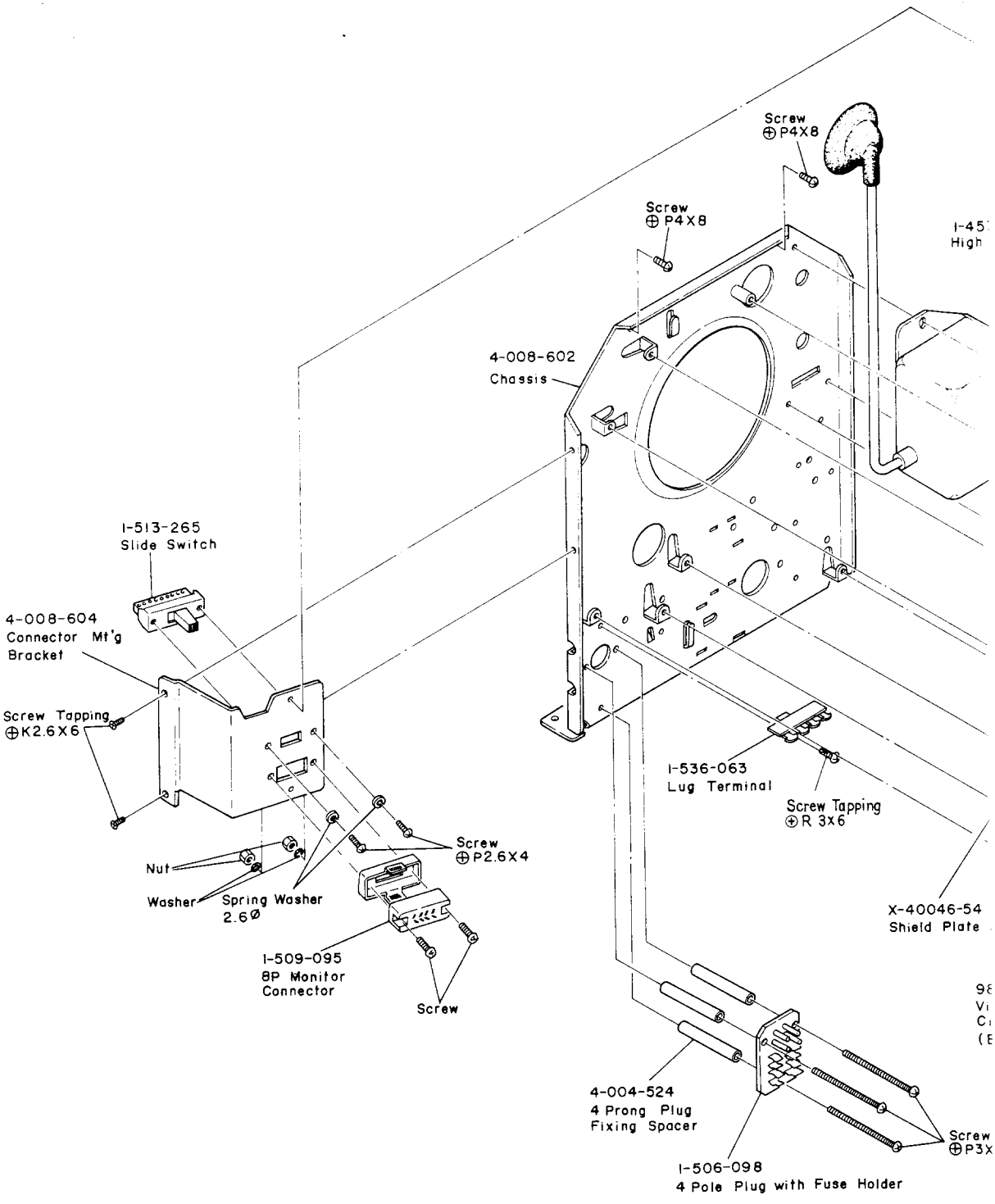
	VHF	UHF
Line Frequency (Horizontal)	10.125 Kc	15.625 Kc
Field Frequency (Vertical)	50 c/s	50 c/s
Number of Lines per Picture	405	625

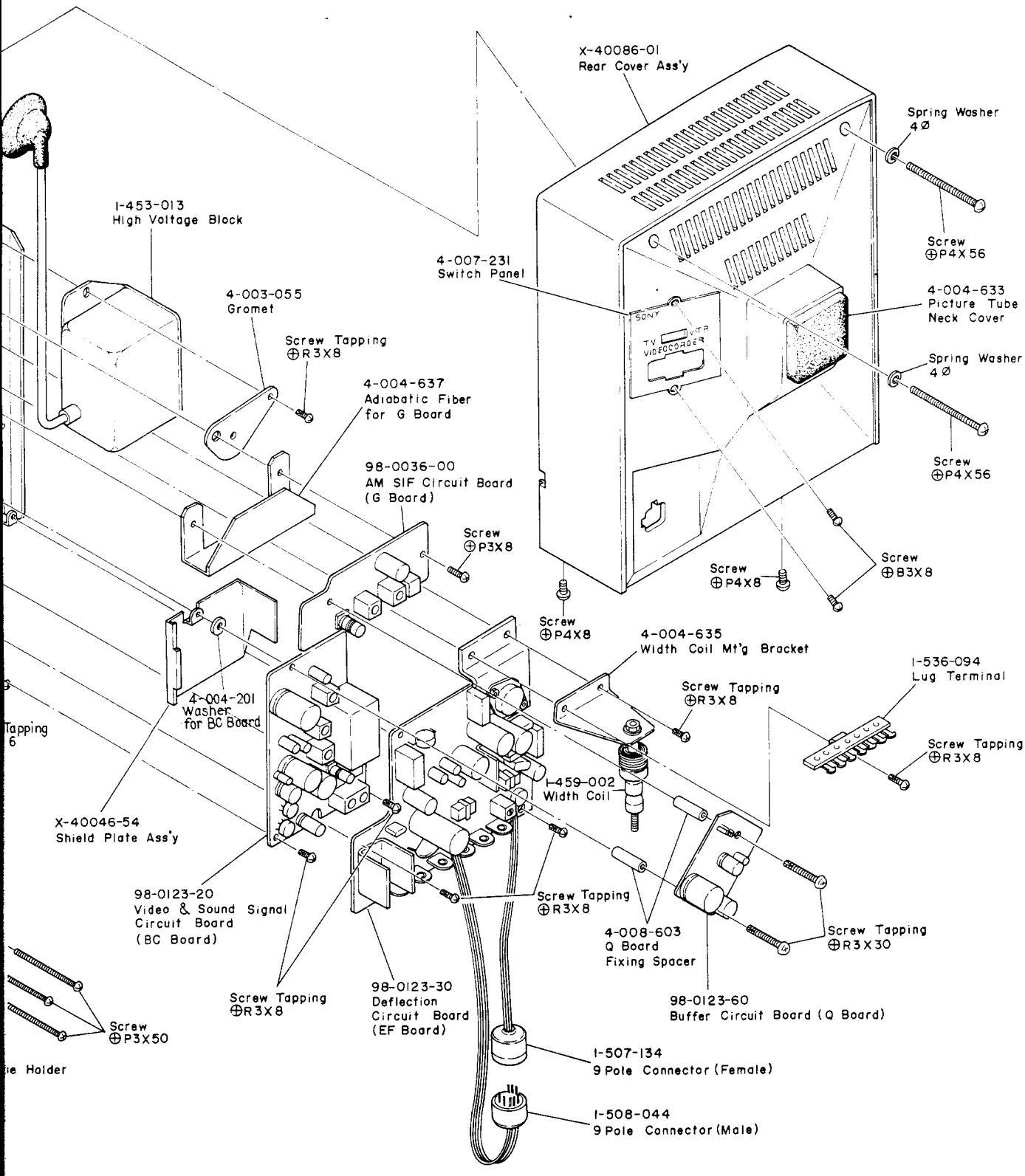
Adjustment of Deflection Circuit

Step	Adjustment for	Preliminary Instruction	Equipment	Connection	Adjust	
1.	Collector Current of X_{502} (VD OUT)	1) Set to the free channel. 2) Check 12V and 80V Power Supply.	Voltmeter	Across R_{506}	R_{501} (12 KΩ) (15 KΩ)	for 32.8~36.9 V reading.
2.	Collector Current of X_{703} (Vert. OUT)	1) Lock in Sync. 2) Check 12V Power Supply. 3) Set the Selector Switch to VHF.	Voltmeter	Across R_{712}	VR_{703} (Vert. Bias)	for 0.26~0.28 V reading.
3.	Vert. Height and Linearity	1) Receive a Test Pattern for VHF. 2) Check 12V Power Supply. 3) Set the Selector Switch to VHF.			VR_{701} & VR_{702} (V. Height) (V. Lin.)	for optimum Vertical Height and Linearity on the pattern.
4.	Pulse Width	1) Lock in Sync. 2) Short Circuit the Horizontal Stabilizer Coil. 3) Set the Selector Switch to UHF.	Oscilloscope	Emitter of X_{801}	C_{806} (0.015~ 0.047μF)	for Pulse width of 12.5~13.5μs.
5.	H. S. C.	1) Lock in Sync. 2) Receive a Test Pattern (UHF). 3) Set the Selector Switch to UHF.			H. S. C.	Open the HSC terminals. (normal) Turn the slug of the HSC for most stable Picture in either case where HSC is shorted or normal.
6.	Collector Current for X_{802} (Hor. Drive)	2) Lock in Sync. 2) Set the Selector Switch to VHF.	Ammeter	Collector of X_{802}	R_{805} (1~18 ohm)	for 80-90 mA reading.
7.	Horizontal Frequency (VHF)	1) Set the Contrast & the Brightness Control Knobs to the optimum positions. 2) Set the Selector Switch to VHF. 3) Receive a Test Pattern (VHF).			VR-601	Adjust VR_{601} so that the number of diagonal bars are almost same for both extreme clockwise and counter-clockwise settings of VR-4.
8.	Horizontal Frequency (UHF)	1) Set the Contrast & the Brightness Control Knobs to the optimum positions. 2) Set the Selector Switch to UHF. 3) Receive a Test Pattern (UHF).			VR-602	Adjust VR_{602} so that the number of diagonal bars are almost same for both extreme clockwise and counter-clockwise settings of VR-4.
9.	Focus	1) Lock in Sync. 2) Set the Contrast & the Brightness Control Knobs to the optimum position.				Connect by soldering a white lead from the Picture Tube socket to either terminal of the two on the 1-6P Lug Terminal (to which a black and a red leads are soldered respectively), whichever gives best focus.

As the above adjustment steps 4 and 5, have influence on each other, they must be performed by turns repeatedly for

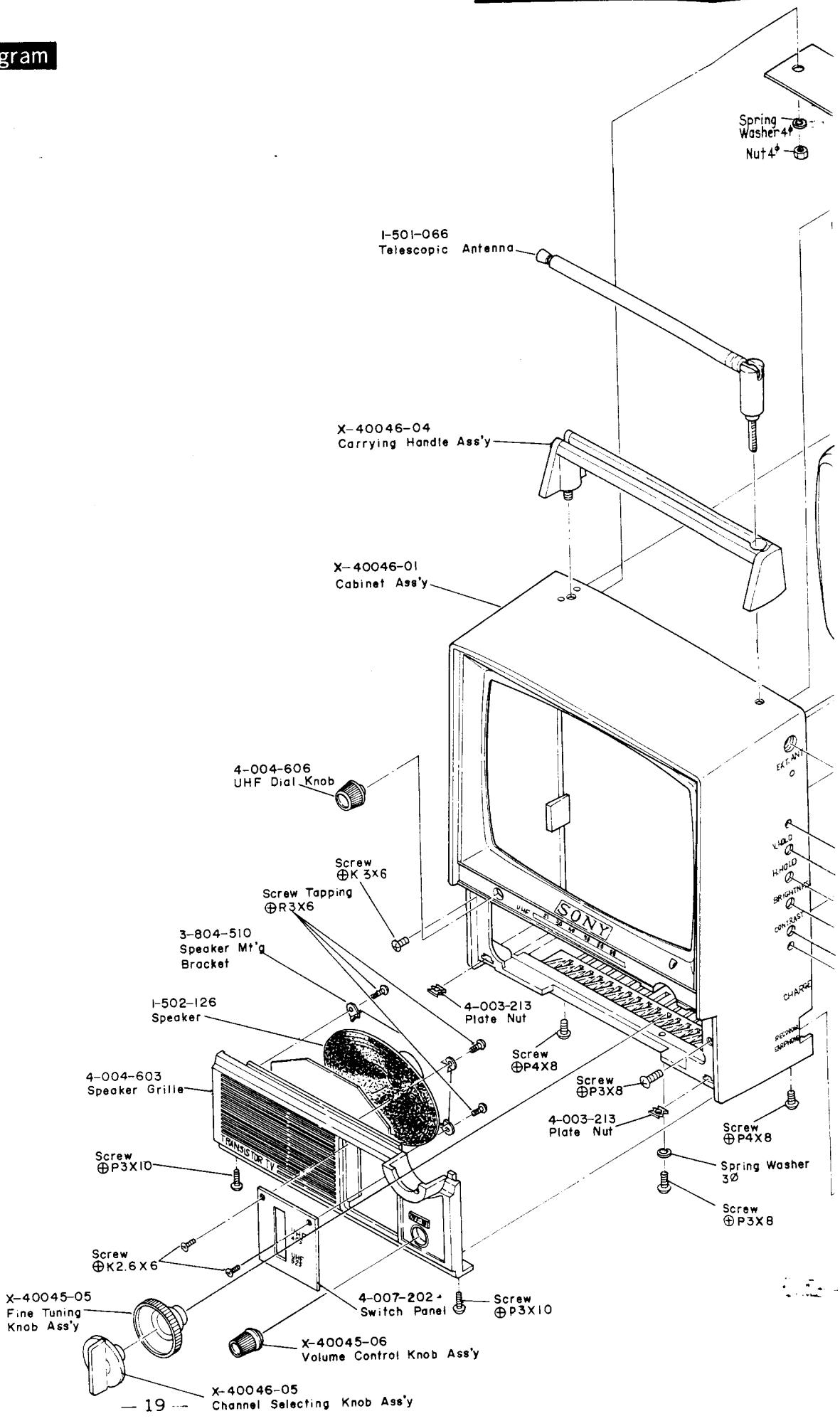
Exploded Diagram



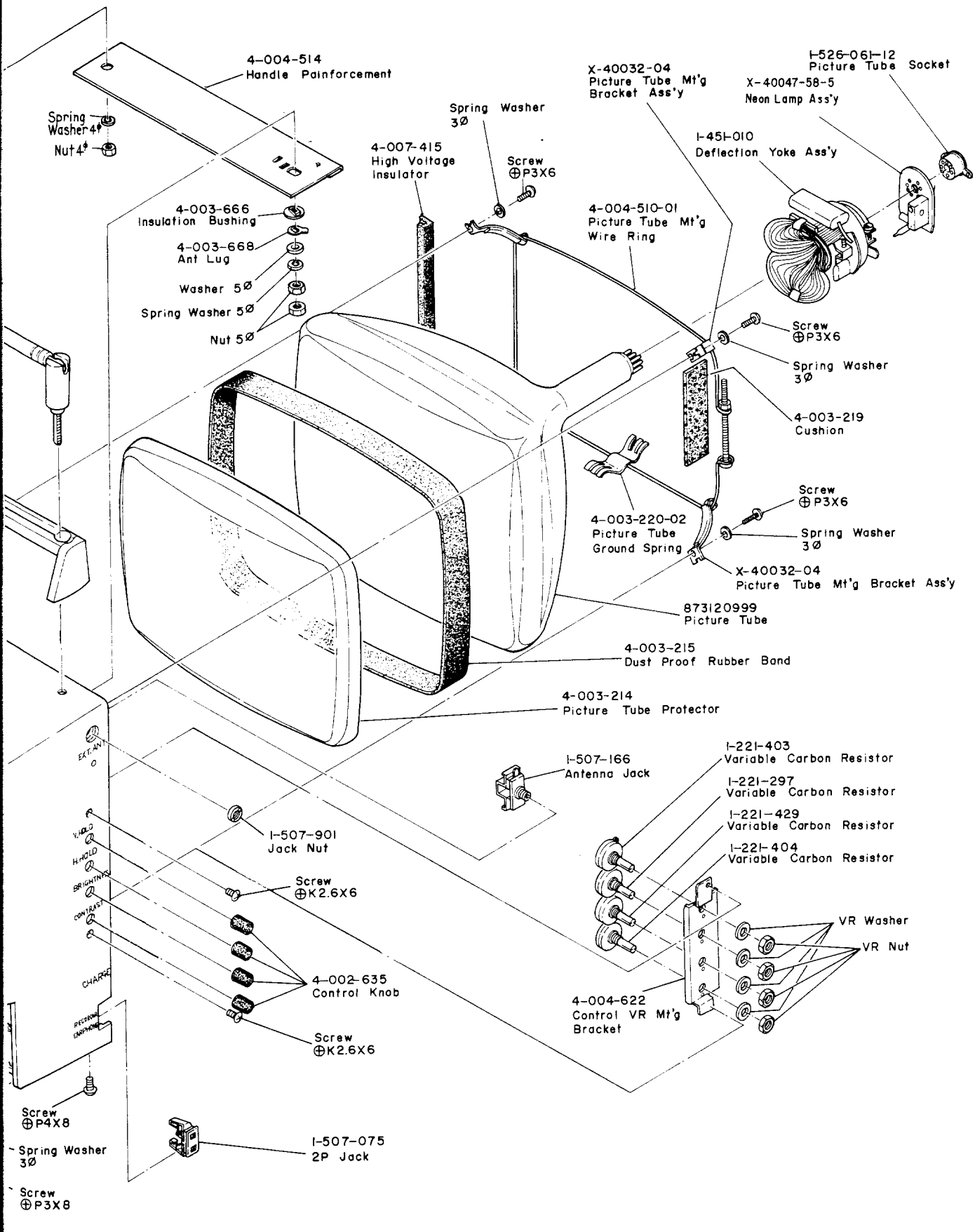

X-40086-01
Rear Cover Ass'y
Spring Washer
4Ø
Screw
⊕P4X56
1-453-013
High Voltage Block
4-007-231
Switch Panel
4-004-633
Picture Tube
Neck Cover
4-003-055
Gromet
Screw Tapping
⊕R3X8
Spring Washer
4Ø
4-004-637
Adiabatic Fiber
for G Board
Screw
⊕P4X56
98-0036-00
AM SIF Circuit Board
(G Board)
Screw
⊕P3X8
Screw
⊕P4X8
Screw
⊕B3X8
Screw
⊕P4X8
4-004-635
Width Coil Mt'g Bracket
1-536-094
Lug Terminal
Screw Tapping
⊕R3X8
4-004-201
Washer
for BC Board
Screw Tapping
⊕R3X8
1-459-002
Width Coil
X-40046-54
Shield Plate Ass'y
98-0123-20
Video & Sound Signal
Circuit Board
(BC Board)
Screw Tapping
⊕R3X8
4-008-603
Q Board
Fixing Spacer
Screw Tapping
⊕R3X30
Screw Tapping
⊕R3X8
98-0123-30
Deflection
Circuit Board
(EF Board)
98-0123-60
Buffer Circuit Board (Q Board)
Screw
⊕P3X50
1-507-134
9 Pole Connector (Female)
1-508-044
9 Pole Connector (Male)

Exploded Diagram

(2)

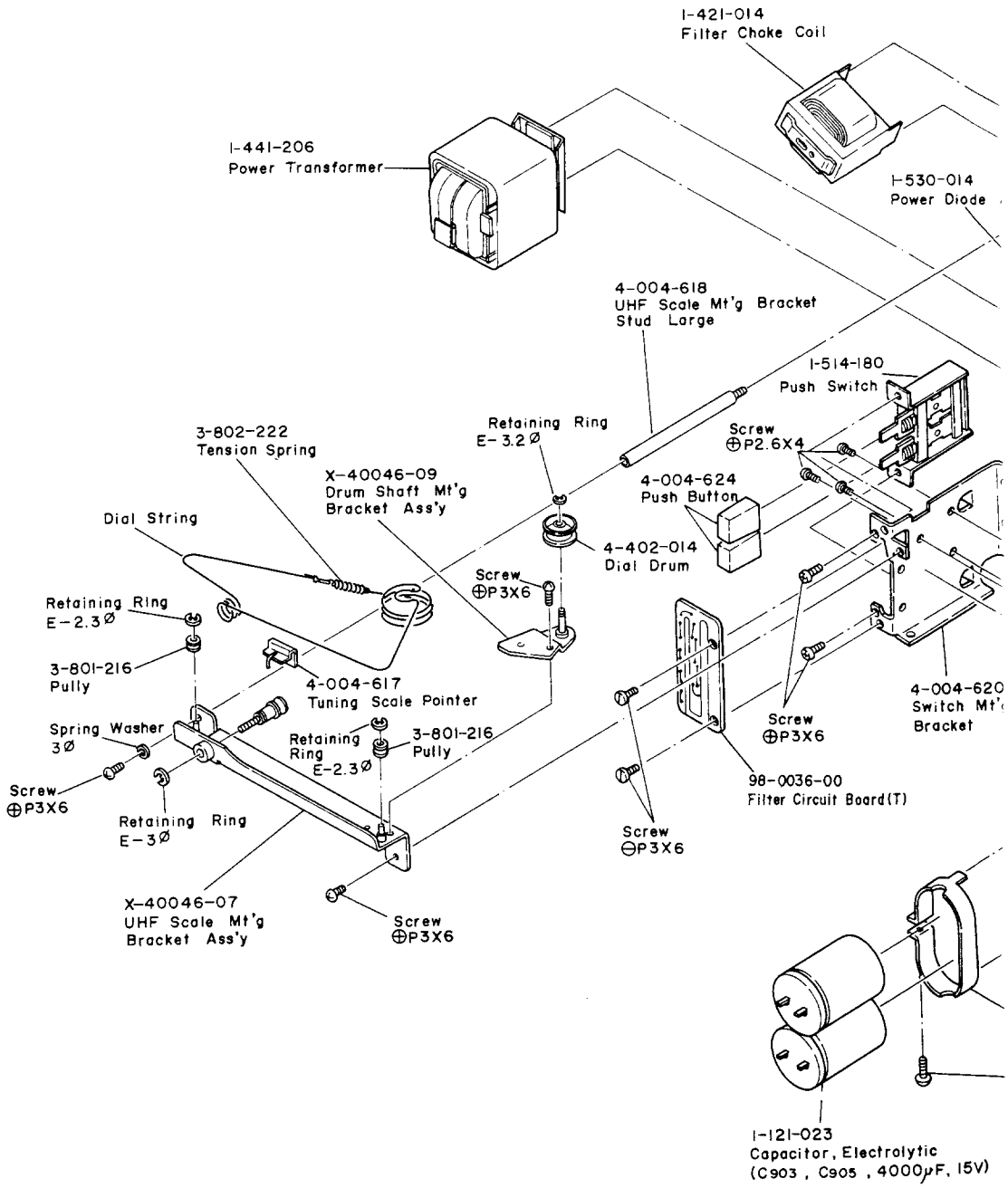


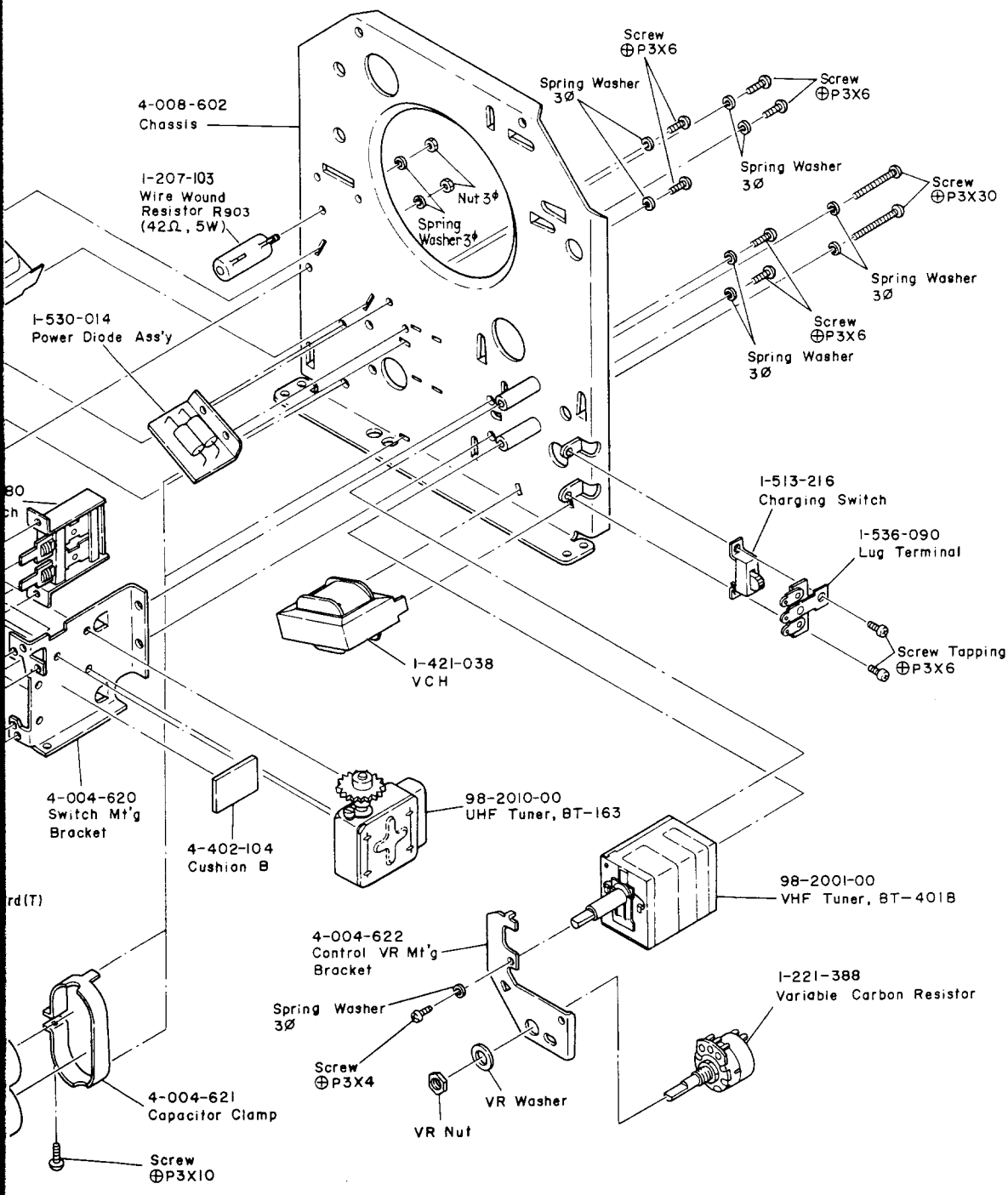
CVM-306UBP


4-004-514
Handle Painforcement
Spring Washer 4Ø
Nut 4Ø
4-003-666
Insulation Bushing
4-003-668
Ant Lug
Washer 5Ø
Spring Washer 5Ø
Nut 5Ø
Spring Washer 3Ø
4-007-415
High Voltage Insulator
Screw ⊕P3X6
X-40032-04
Picture Tube Mt'g Bracket Ass'y
X-40047-58-5
Neon Lamp Ass'y
1-526-061-12
Picture Tube Socket
1-451-010
Deflection Yoke Ass'y
4-004-510-01
Picture Tube Mt'g Wire Ring
Screw ⊕P3X6
Spring Washer 3Ø
4-003-219
Cushion
Screw ⊕P3X6
4-003-220-02
Picture Tube Ground Spring
Spring Washer 3Ø
X-40032-04
Picture Tube Mt'g Bracket Ass'y
873120999
Picture Tube
4-003-215
Dust Proof Rubber Band
4-003-214
Picture Tube Protector
EXT. ANT
V.HOLD
H.HOLD
BRIGHTNESS
CONTRAST
CHARGE
1-507-166
Antenna Jack
1-221-403
Variable Carbon Resistor
1-221-297
Variable Carbon Resistor
1-221-429
Variable Carbon Resistor
1-221-404
Variable Carbon Resistor
1-507-901
Jack Nut
Screw ⊕K2.6X6
4-002-635
Control Knob
Screw ⊕K2.6X6
VR Washer
VR Nut
4-004-622
Control VR Mt'g Bracket
Screw ⊕P4X8
Spring Washer 3Ø
Screw ⊕P3X8
1-507-075
2P Jack

Exploded Diagram

(3)

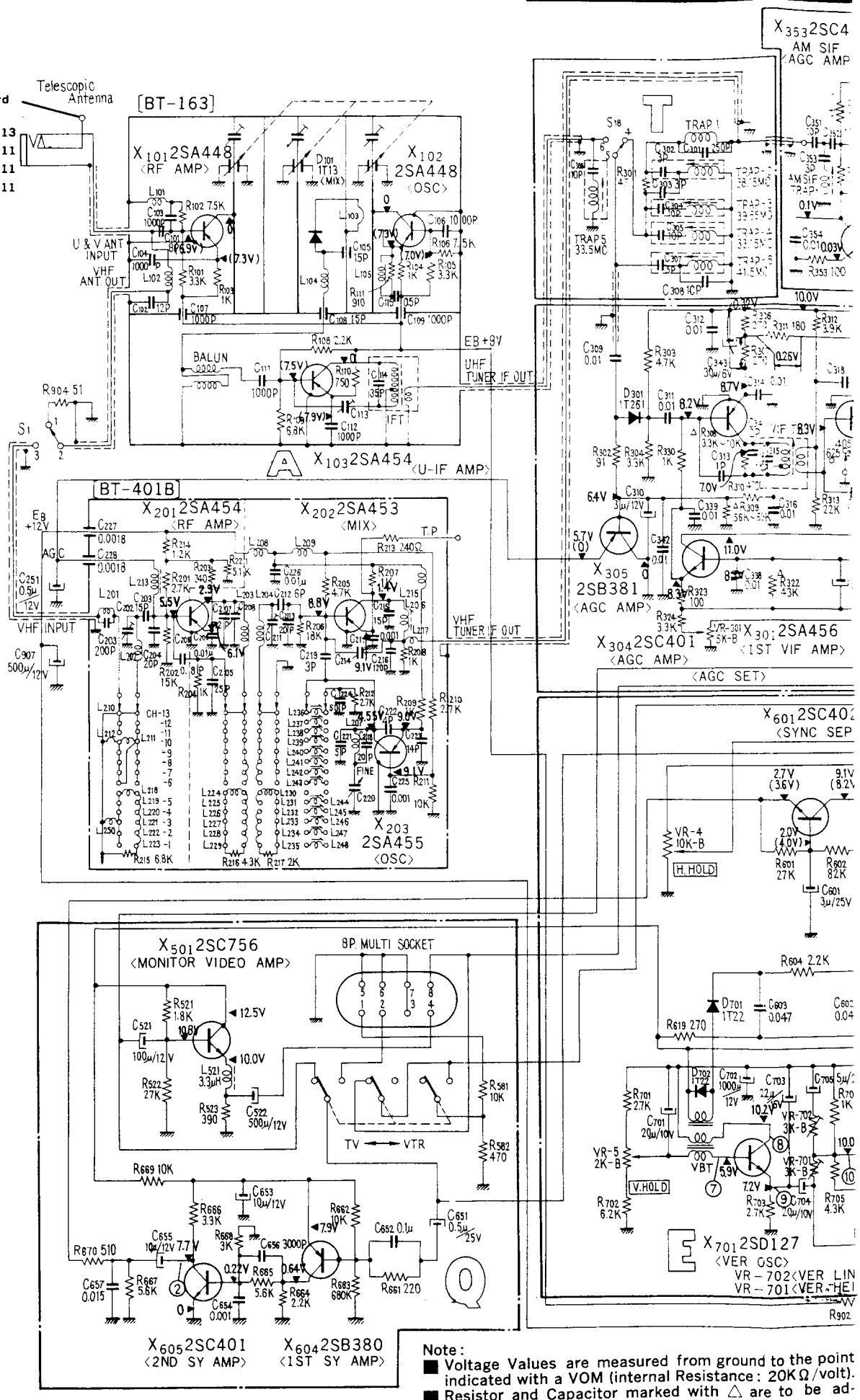



Screw ⊕P3X6
Spring Washer 3Ø
Screw ⊕P3X6
4-008-602 Chassis
Spring Washer 3Ø
1-207-103 Wire Wound Resistor R903 (42Ω, 5W)
Nut 3φ
Spring Washer 3φ
Screw ⊕P3X30
Spring Washer 3Ø
1-530-014 Power Diode Ass'y
Screw ⊕P3X6
Spring Washer 3Ø
1-513-216 Charging Switch
1-536-090 Lug Terminal
Screw Tapping ⊕P3X6
1-421-038 VCH
4-004-620 Switch Mt'g Bracket
98-2010-00 UHF Tuner, BT-163
4-402-104 Cushion B
98-2001-00 VHF Tuner, BT-4018
4-004-622 Control VR Mt'g Bracket
1-221-388 Variable Carbon Resistor
Spring Washer 3Ø
Screw ⊕P3X4
VR Washer
VR Nut
4-004-621 Capacitor Clamp
Screw ⊕P3X10

Circuit Schematic

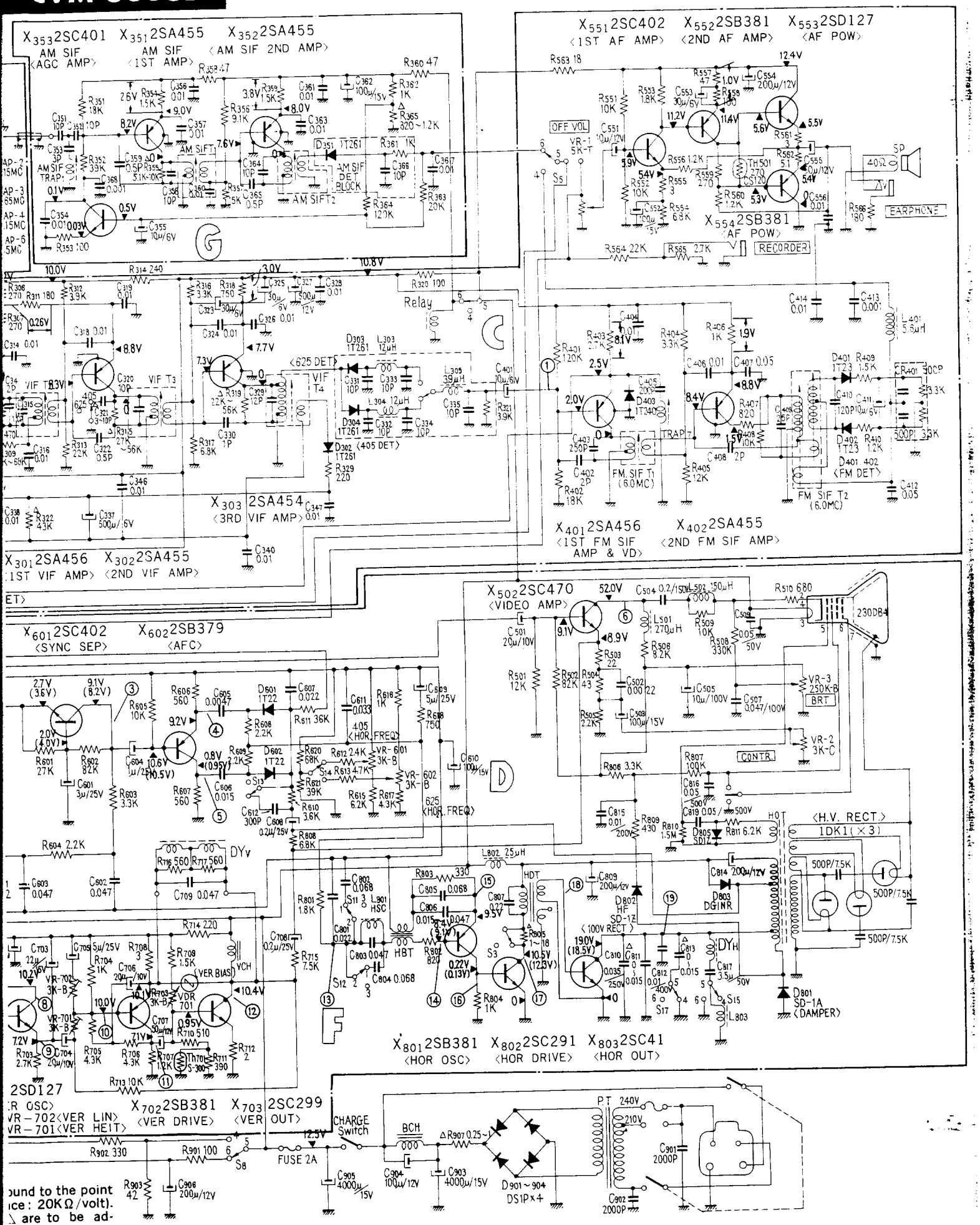
Circuit Board No.

Video and Sound Signal Circuit Board	1-538-301-12
Deflection Circuit Board	1-538-304-13
AM-SIF Circuit Board	1-538-302-11
Filter Circuit Board	1-538-303-11
Buffer Circuit Board	1-538-735-11



Note:

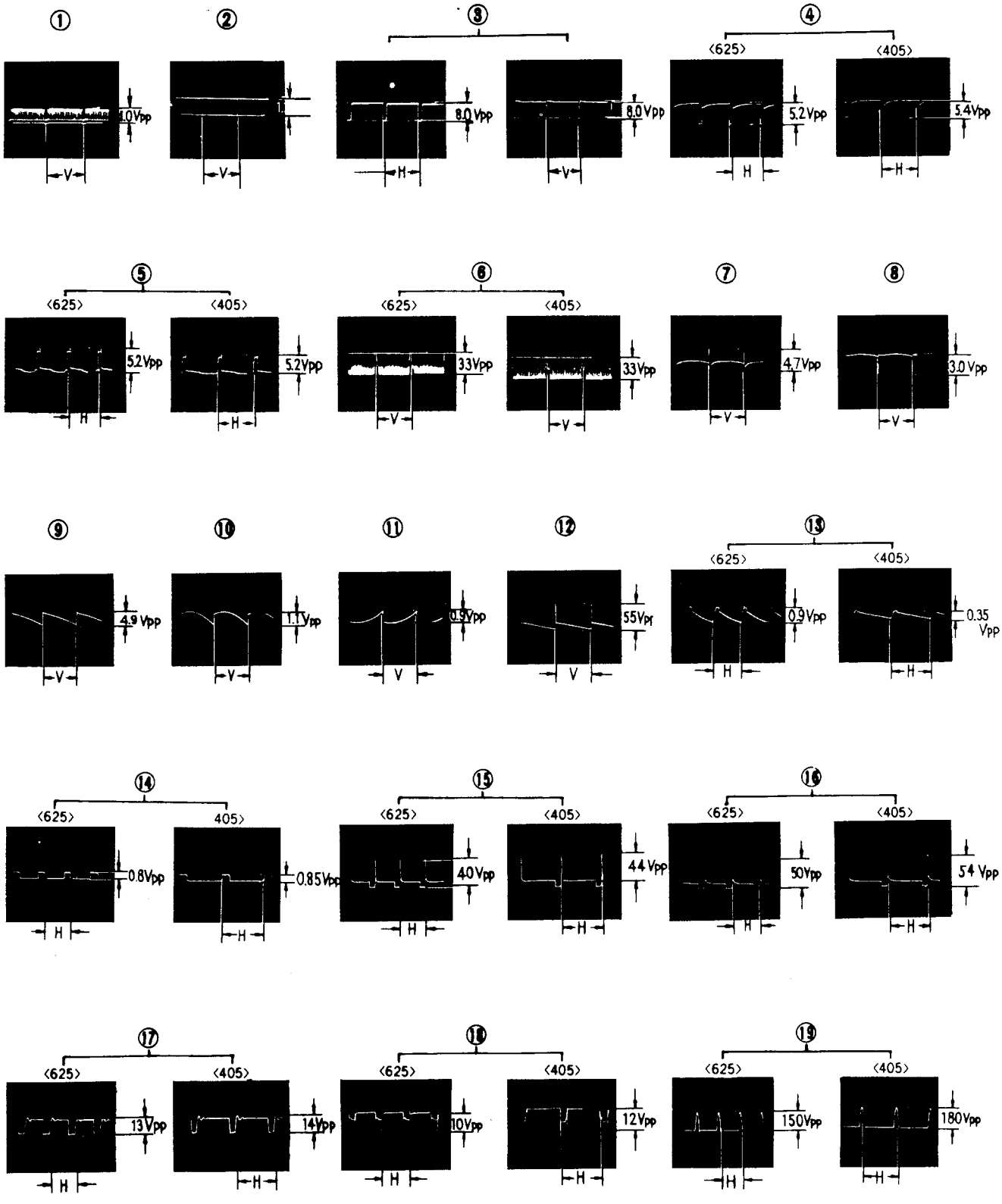
- Voltage Values are measured from ground to the point indicated with a VOM (internal Resistance: 20KΩ/volt).
- Resistor and Capacitor marked with △ are to be adjusted.
- Voltage Values in the Parentheses are for 625 Lines.



ound to the point
ice : 20KΩ/volt).
\ are to be ad-

for 625 Lines.

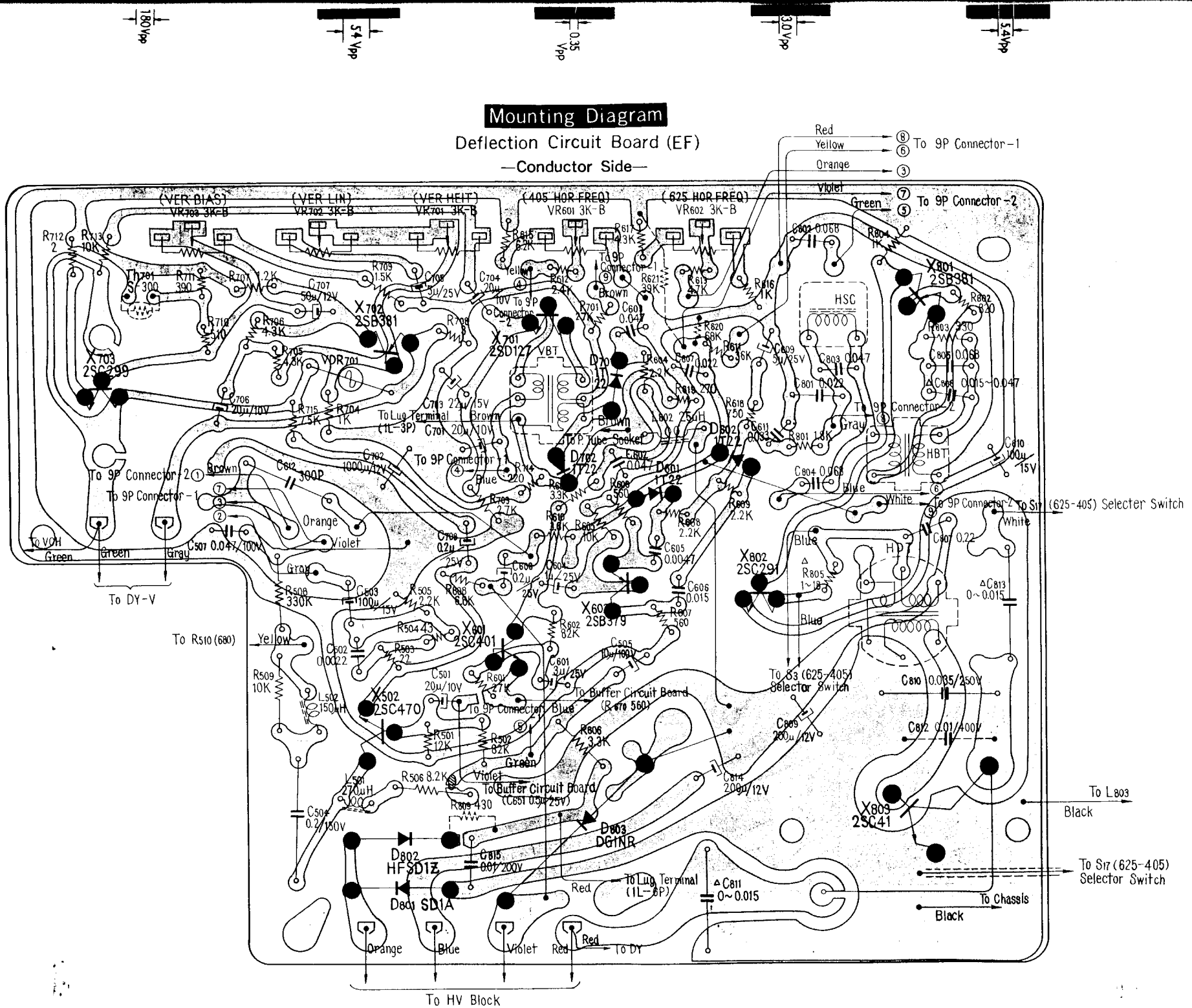
Waveforms


①
4.0Vpp
V
②
V
③
8.0Vpp
H
8.0Vpp
V
④
〈625〉
〈405〉
5.2Vpp
H
5.4Vpp
H
⑤
〈625〉
〈405〉
5.2Vpp
H
5.2Vpp
H
⑥
〈625〉
〈405〉
3.3Vpp
V
3.3Vpp
V
⑦
4.7Vpp
V
⑧
3.0Vpp
V
⑨
4.9Vpp
V
⑩
1.1Vpp
V
⑪
0.9Vpp
V
⑫
5.5Vpp
V
⑬
〈625〉
〈405〉
0.9Vpp
H
0.35
Vpp
H
⑭
〈625〉
405〉
0.8Vpp
H
0.85Vpp
H
⑮
〈625〉
〈405〉
4.0Vpp
H
4.4Vpp
H
⑯
〈625〉
〈405〉
5.0Vpp
H
5.4Vpp
H
⑰
〈625〉
〈405〉
13Vpp
H
14Vpp
H
⑱
〈625〉
〈405〉
10Vpp
H
12Vpp
H
⑲
〈625〉
〈405〉
15.0Vpp
H
18.0Vpp
H

Mounting Diagram

Deflection Circuit Board (EF)

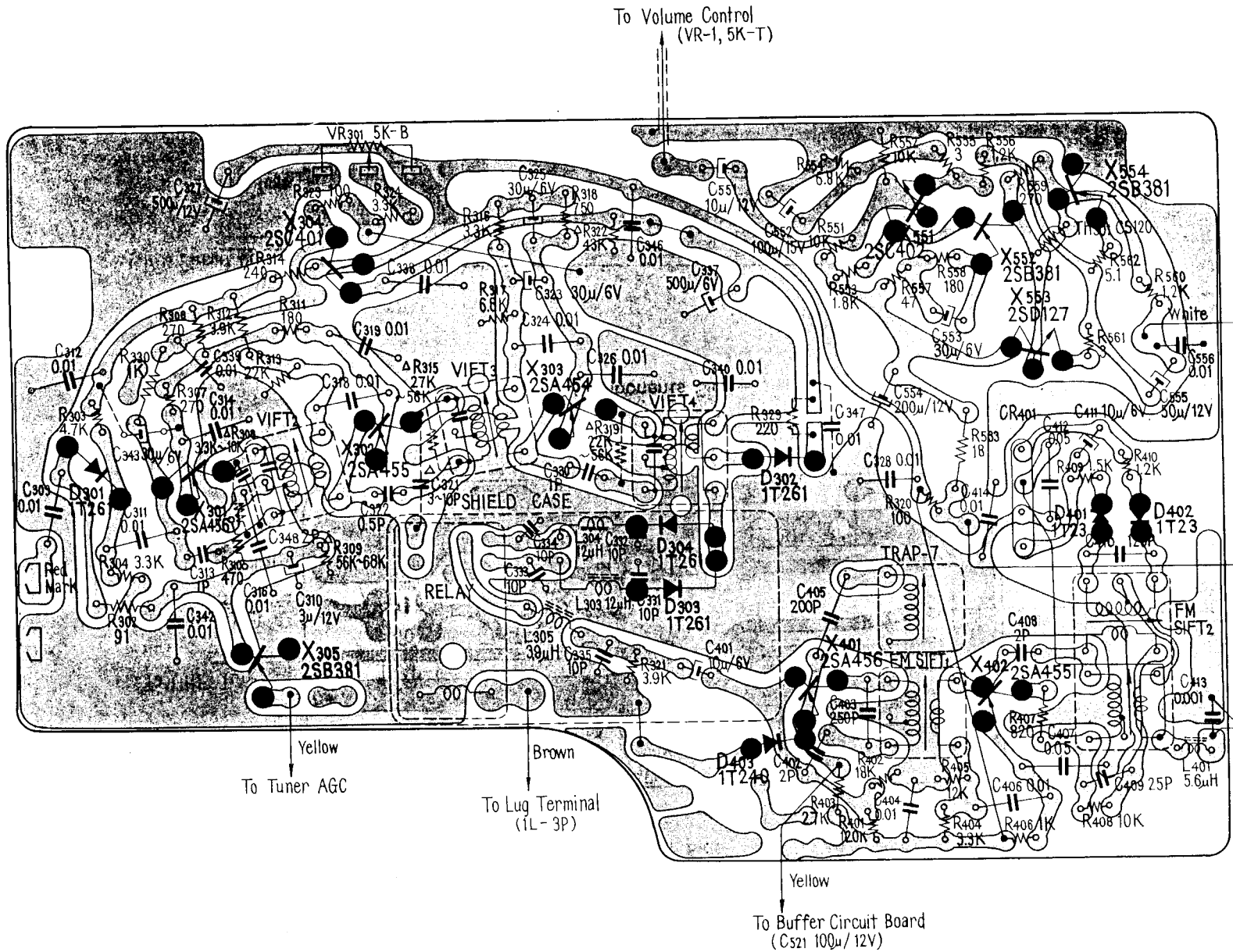
—Conductor Side—



Mounting Diagram

Video & Sound Signal Circuit Board (BC)

—Conductor Side—



Mounting Diagram

AM-SIF Circuit Board (G)

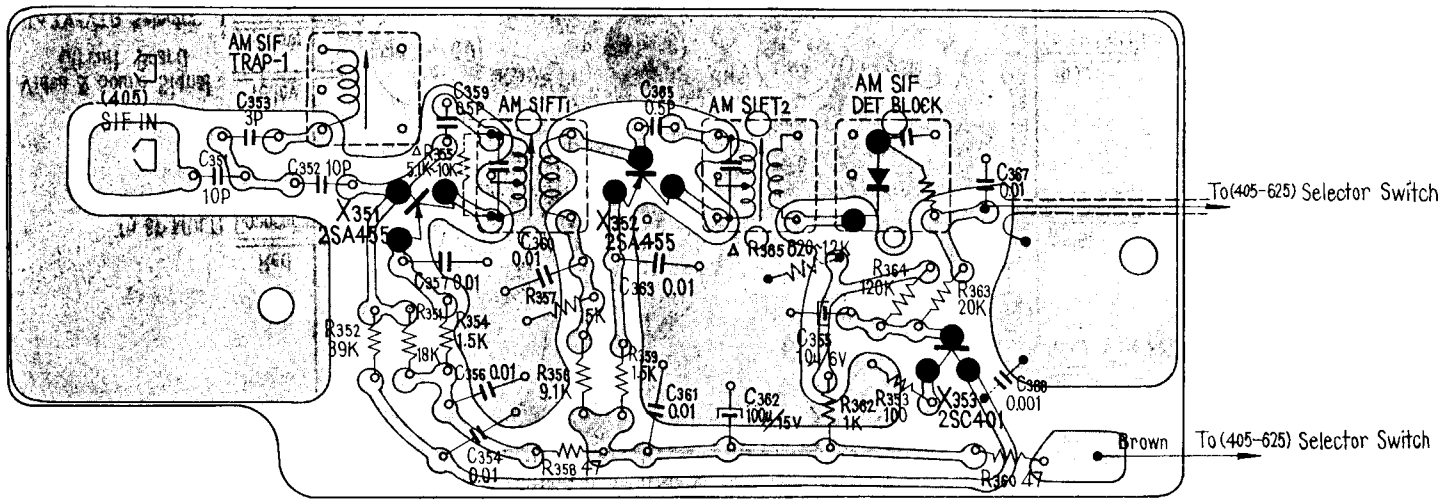
CVM-306UBP CV

To Buffer Circuit Board
(C521 100μ/12V)

Mounting Diagram

AM-SIF Circuit Board (G)

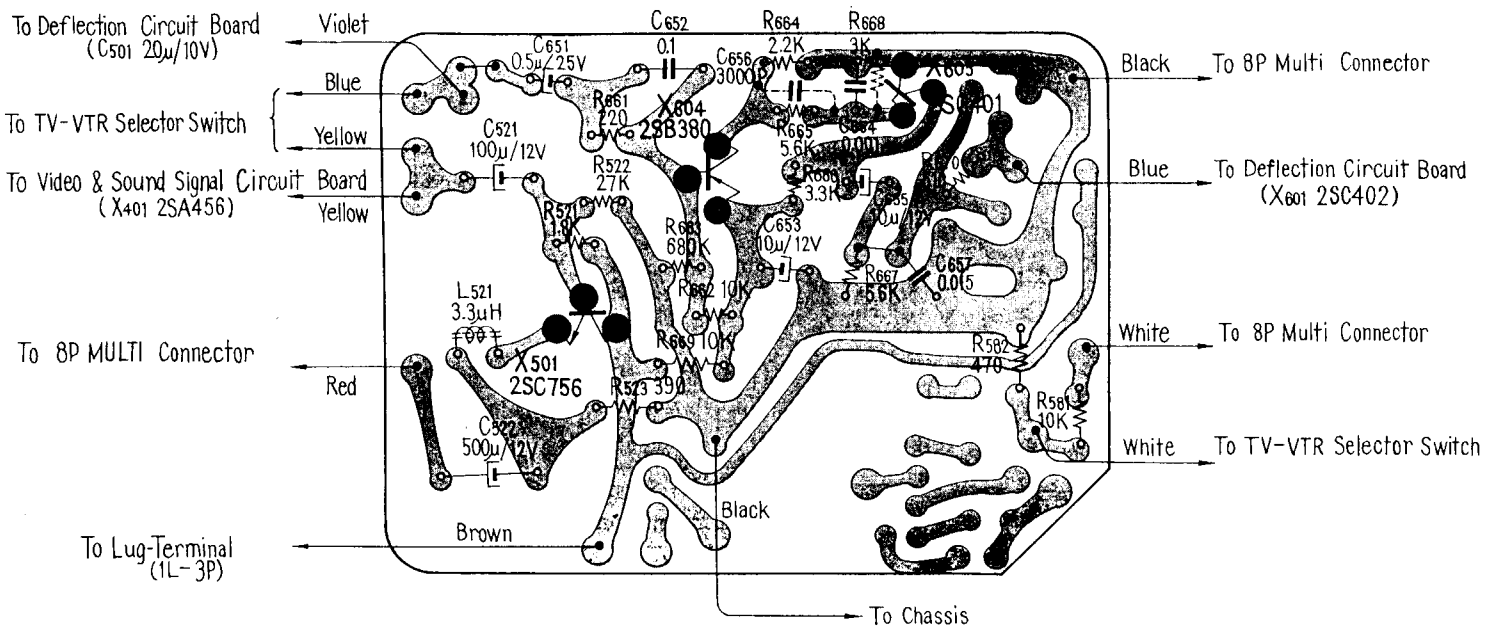
—Conductor Side—



Mounting Diagram

Buffer Circuit Board (Q)

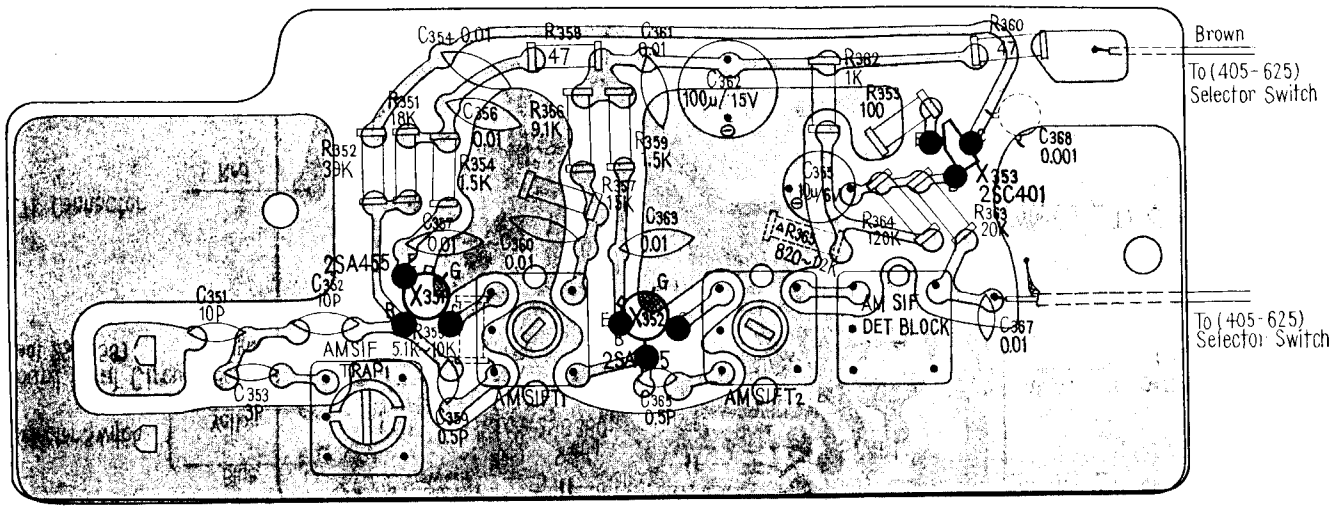
—Conductor Side—



Mounting Diagram

AM-SIF Circuit Board (G)

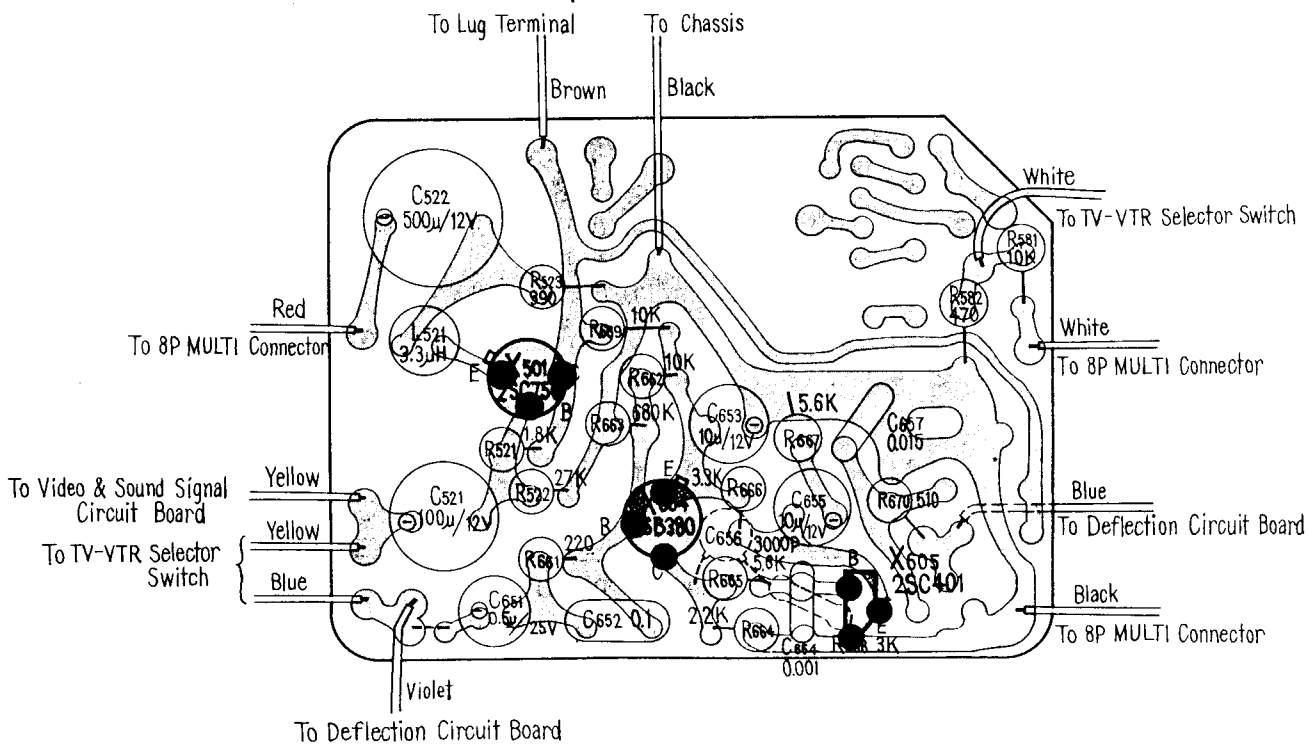
—Components Side—

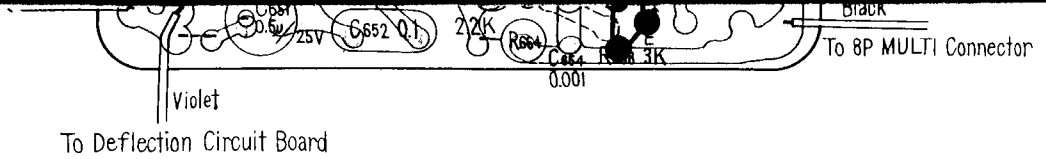


Mounting Diagram

Buffer Circuit Board (Q)

—Components Side—

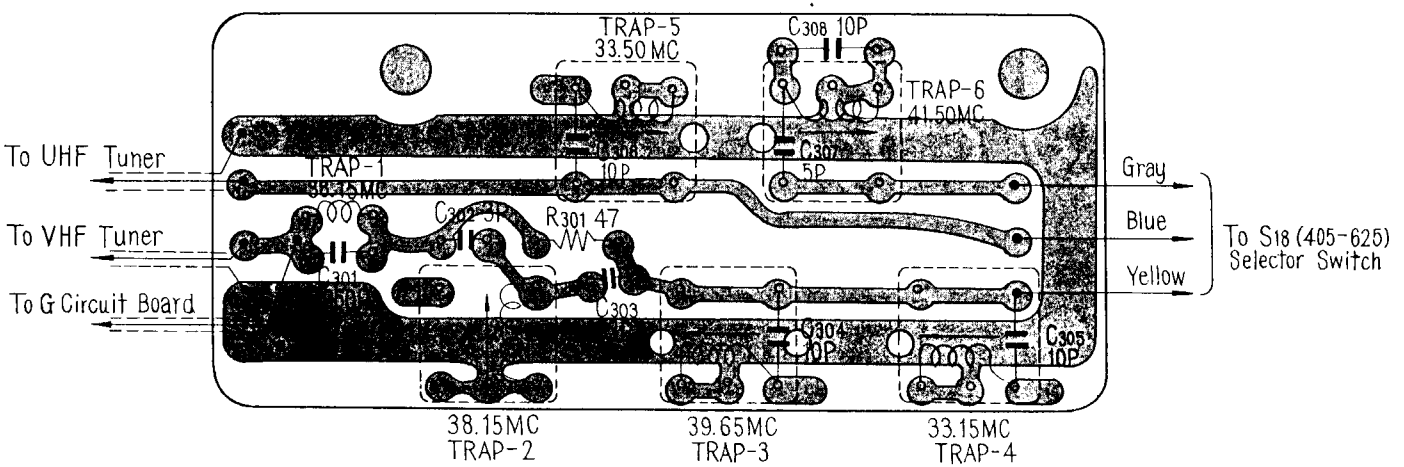




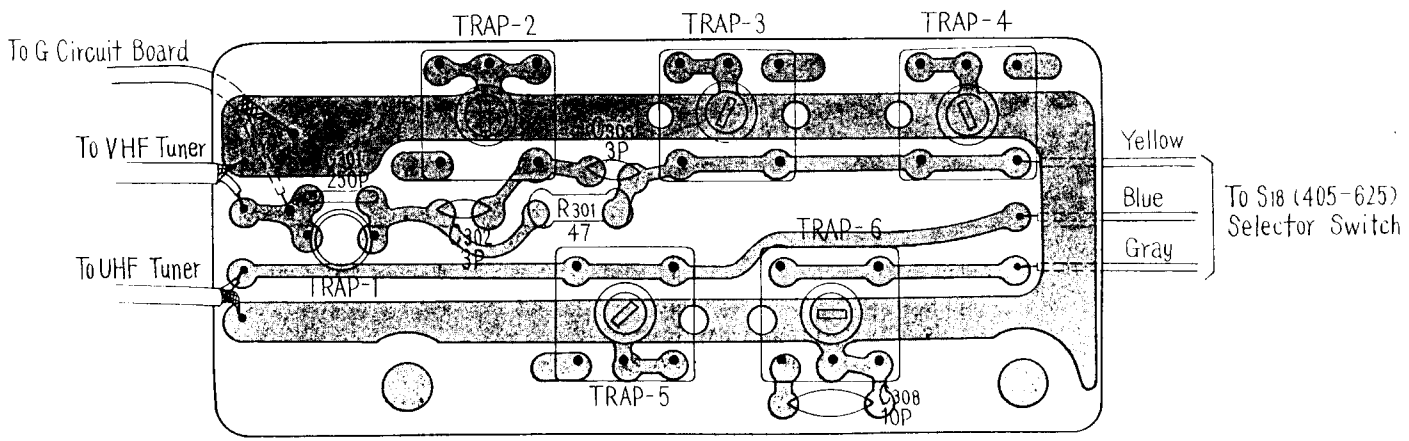
Mounting Diagram

Filter Circuit Board(T)

—Conductor Side—



—Components Side—

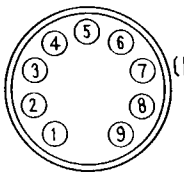


Mounting Diagram

Deflection Circuit Board (EF)

—Components Side—

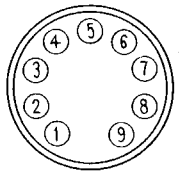
9P CONNECTOR-1



9P CONNECTOR—1

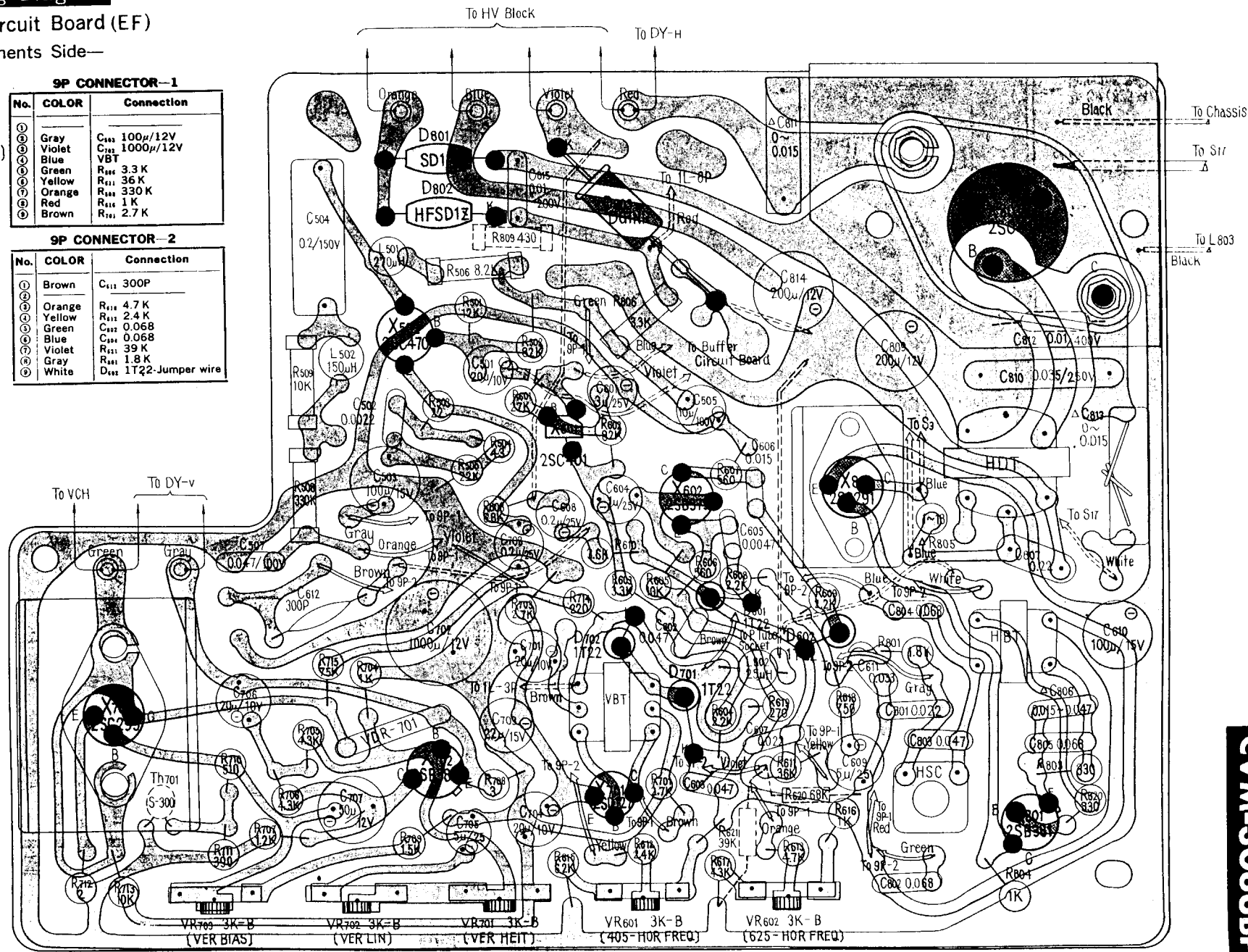
No.	COLOR	Connection
①		
②	Gray	C_{502} 100μ/12V
③	Violet	C_{702} 1000μ/12V
④	Blue	VBT
⑤	Green	R_{806} 3.3 K
⑥	Yellow	R_{611} 36 K
⑦	Orange	R_{808} 330 K
⑧	Red	R_{616} 1 K
⑨	Brown	R_{701} 2.7 K

9P CONNECTOR-2



9P CONNECTOR—2

No.	COLOR	Connection
①	Brown	C_{511} 300P
②		
③	Orange	R_{518} 4.7 K
④	Yellow	R_{512} 2.4 K
⑤	Green	C_{502} 0.068
⑥	Blue	C_{504} 0.068
⑦	Violet	R_{521} 39 K
⑧	Gray	R_{501} 1.8 K
⑨	White	D_{502} 1T22-Jumper wire



CVM-306UBP CV

(VER BIAS) (VER LIN) (VER HEIT) (405-HOR FREQ) (625-HOR FREQ)

Mounting Diagram

Video & Sound Signal Circuit Board (BC)

—Components Side—

9-962-174-01

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87L0202-1