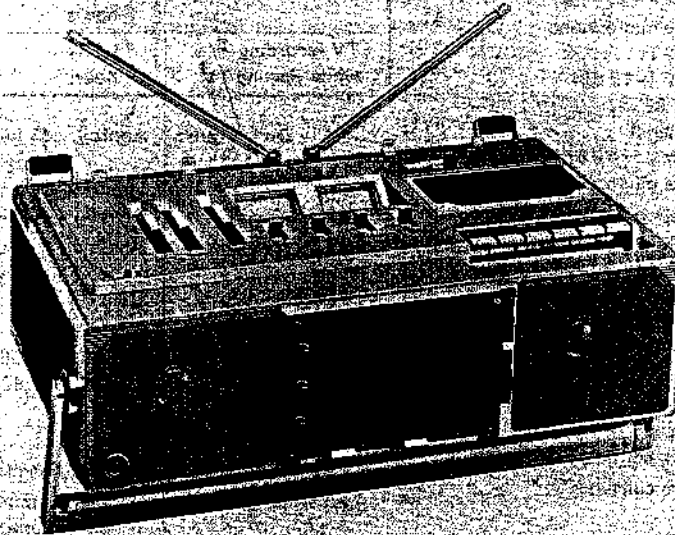



FX-414⁵¹⁰

US and Canadian Model




TV-FM/AM RECEIVER CASSETTE-CORDER

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. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SPECIFICATIONS

Television System:	American and Canadian TV standards
Picture Tube:	9.4 cm, 4" (screen measured diagonally), 50° deflection
Semiconductors:	71 transistors, 4 ICs and 44 diodes
Antennas:	VHF/UHF/FM: Telescopic antennas 75 Ω external antenna terminal AM: Built-in ferrite-rod antenna
Channel Coverage:	VHF channels: 2 - 13 UHF channels: 14 - 83
Intermediate Frequency:	Picture i-f carrier: 45.75 MHz Sound i-f carrier: 41.25 MHz
Sound System:	4.5 MHz intercarrier Output power: 2.5 W x 2 (max.) at ac operation 2.2 W x 2 (at 10 % harmonic distortion) at dc operation

- Continued on page 2 -

SONY[®]

SERVICE MANUAL

5107

Speaker: Approx. 10 cm (4 inches) dia.
x 2, 8 Ω

- Input:** MIC (minijack) 2
Sensitivity: 0.25 mV (-70 dB)
for low impedance microphone
- LINE IN (phono jack) 2
Sensitivity: 0.19 V (-12 dB)
Input impedance: 39 kΩ
- MIXING MIC (mini jack) 1
Sensitivity: 0.25 mV (-70 dB)
for low impedance microphone
- Output:** LINE OUT (phono jack) 2
Rated output: 0.44 V (-5 dB) at
load impedance 47 kΩ
- Load impedance: 10 kΩ or higher
- EXT SP (mini jack) 2
for 4 to 8 Ω speaker
- HEADPHONES (stereo binaural jack) 1
for 8 Ω headphones

Automatic Controls: AFC (automatic frequency control)
AGC (automatic gain control)

Anode Voltage: 6.7 kV at 20 μA beam current

Power Requirements: 120 V ac, 60 Hz
10.5 V dc, seven batteries size D
(IEC designation R20)
12 V car battery with optional Sony car
battery cord DCC-16AW

Power Consumption: 25 W ac
18 W dc (in 12 V operation)

Battery Life: Battery life is dependent on operating
conditions and the type of batteries used.
The following table shows some examples:
the upper row shows the battery life with
an intermittent use of two-hours on and
two-hours off, and the lower shows that
with continuous use.

	Sony Super Battery SUM-1S	Sony Ultra Super SUM-1U
TV viewing	11 hours 8 hours	16 hours 15 hours
TV recording while viewing TV	7 hours 5 hours	10 hours 9 hours

Dimensions: Approx. 43 (w) x 14 (h) x 29 (d) cm
16 7/8 (w) x 5 1/2 (h) x 11 3/8 (d) inches
including projecting parts and controls,
excluding handle

Net Weight: Approx. 6.4 kg (14 lb 2 oz)
excluding batteries and accessories

RADIO SECTION

Frequency Range: FM 87.5 – 108 MHz
AM 530 – 1,605 kHz (566 – 187 m)

TAPE RECORDER SECTION

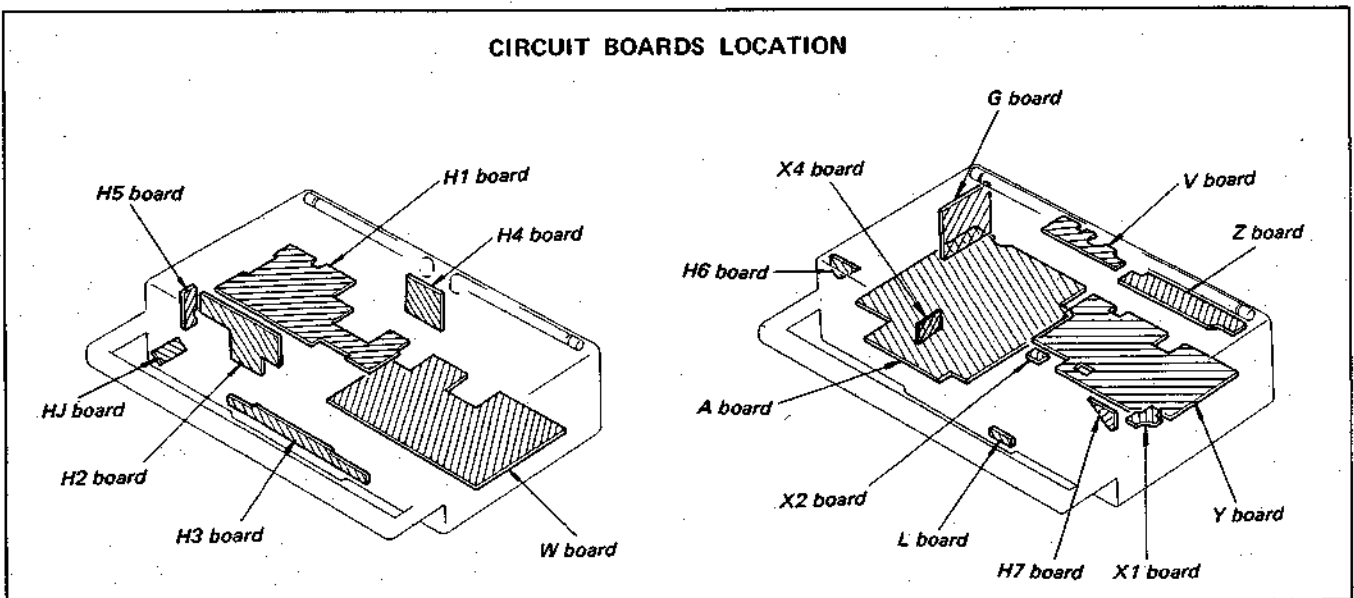
Recording System: 4-track 2-channel stereo or monaural

Fast Winding Time: Approx. 1 min. 50 sec. with Sony
Cassette C-60

Frequency Response: 60 – 10,000 Hz
(with standard cassette, with the
TAPE SELECT switch set to
TYPE I/NORMAL)
60 – 12,000 Hz
(with chromium dioxide cassette, with
the TAPE SELECT switch set to
TYPE II/CrO₂)

Accessories Supplied: Cassette tape 1
AC power cord 1
Shorting plug (SP-100) 1
Head cleaning tips 1 set
Instruction manual 1

CIRCUIT BOARDS LOCATION

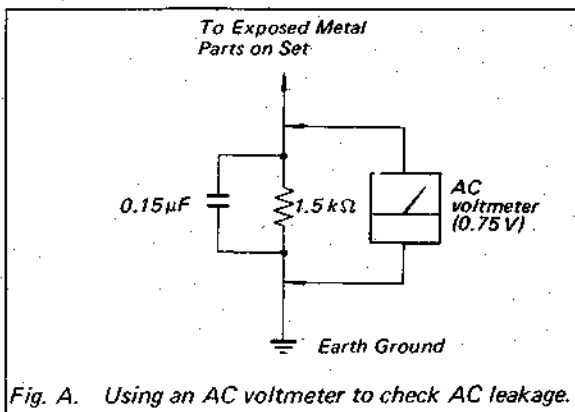


SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



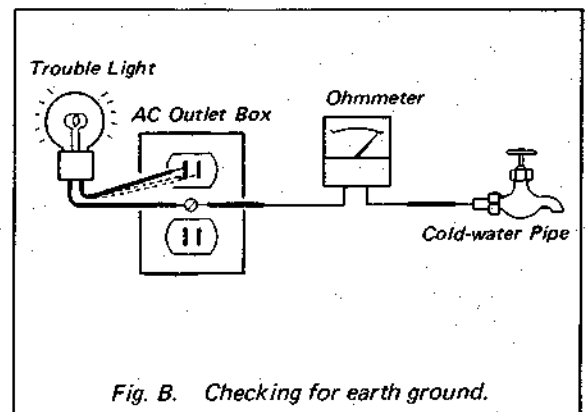
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

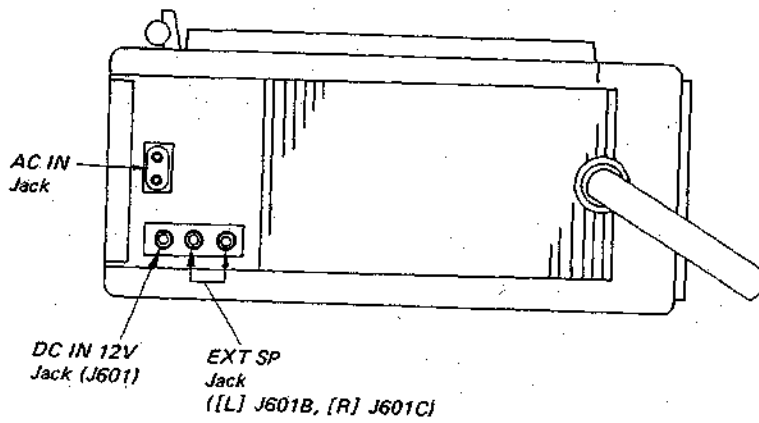
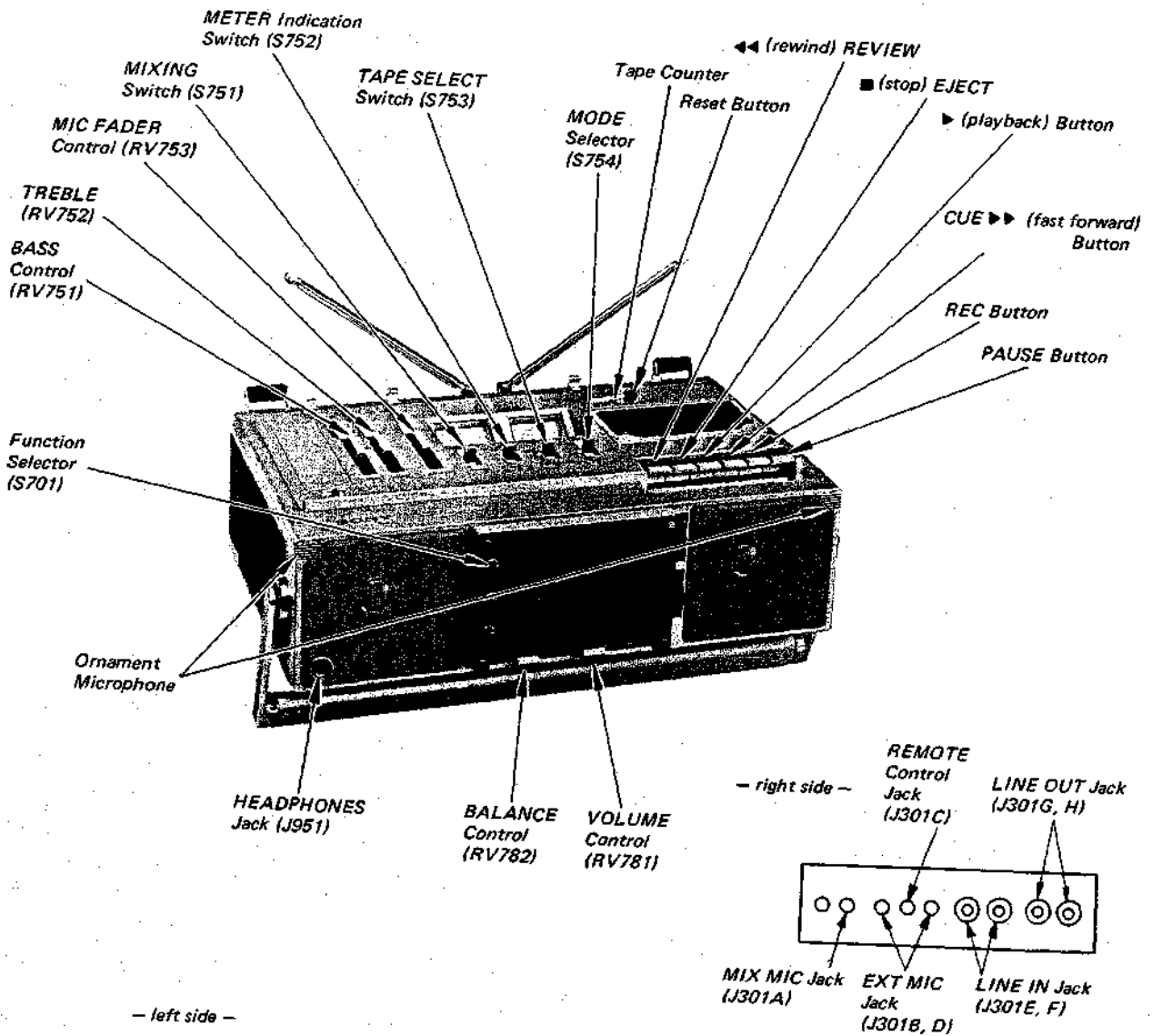
HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watt trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

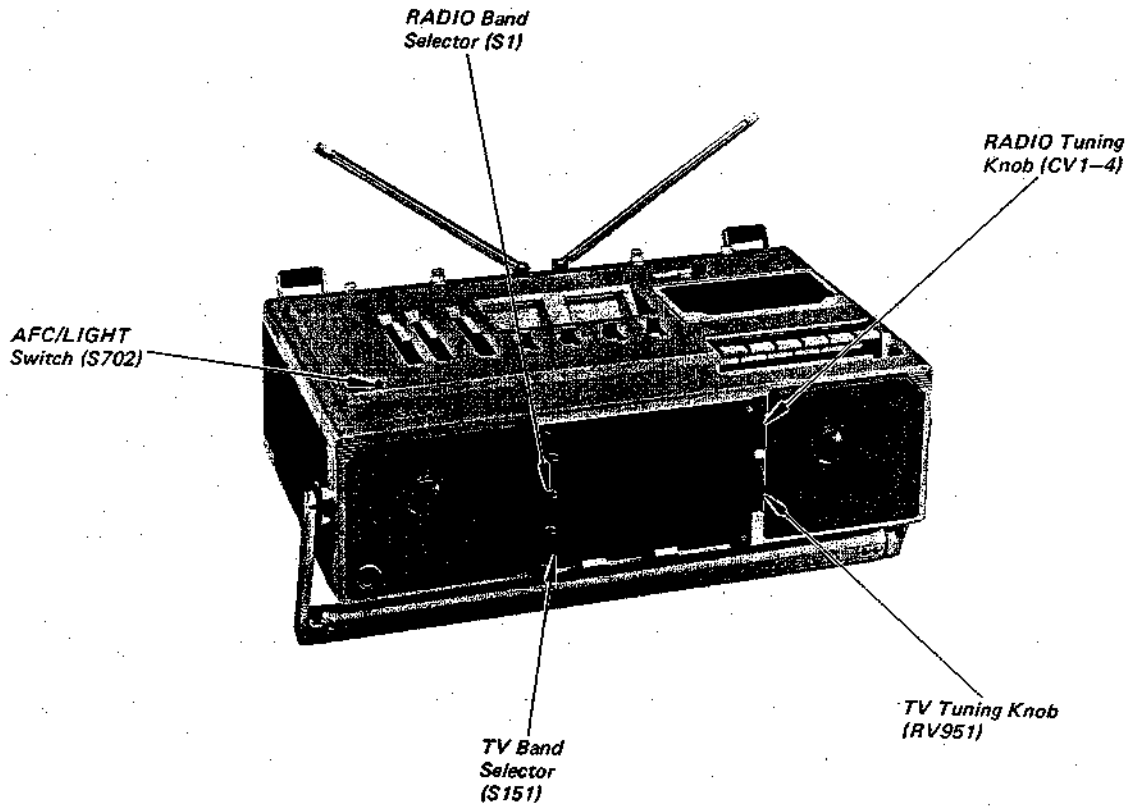


**SECTION 1
OUTLINE**

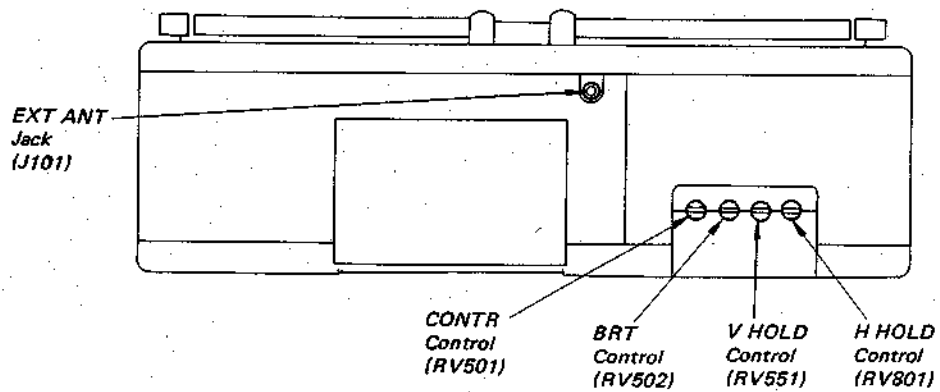
**1-1. PARTS LOCATION
(1) Tape Recorder Section**



(2) TV Section and Radio Section



— rear —

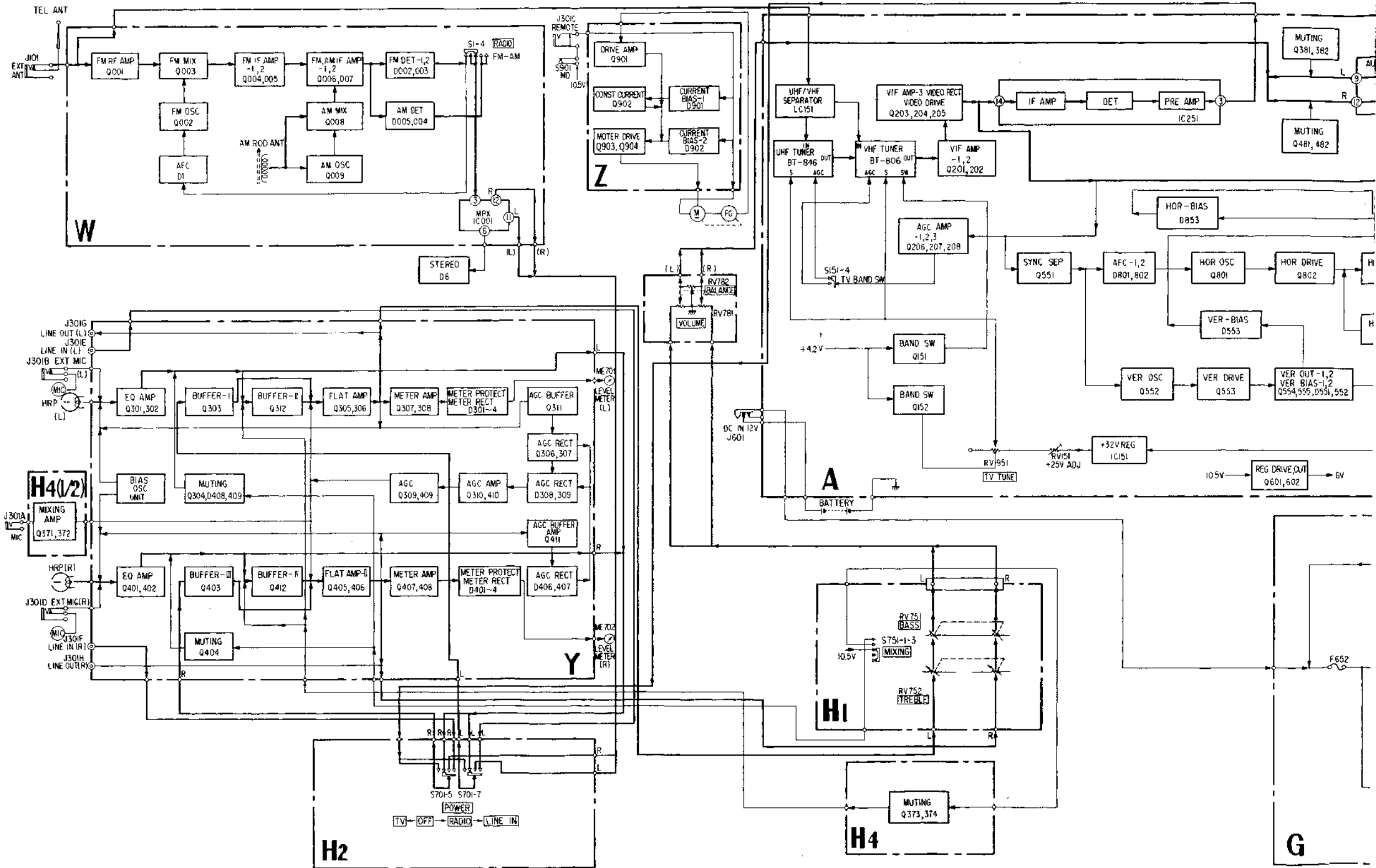


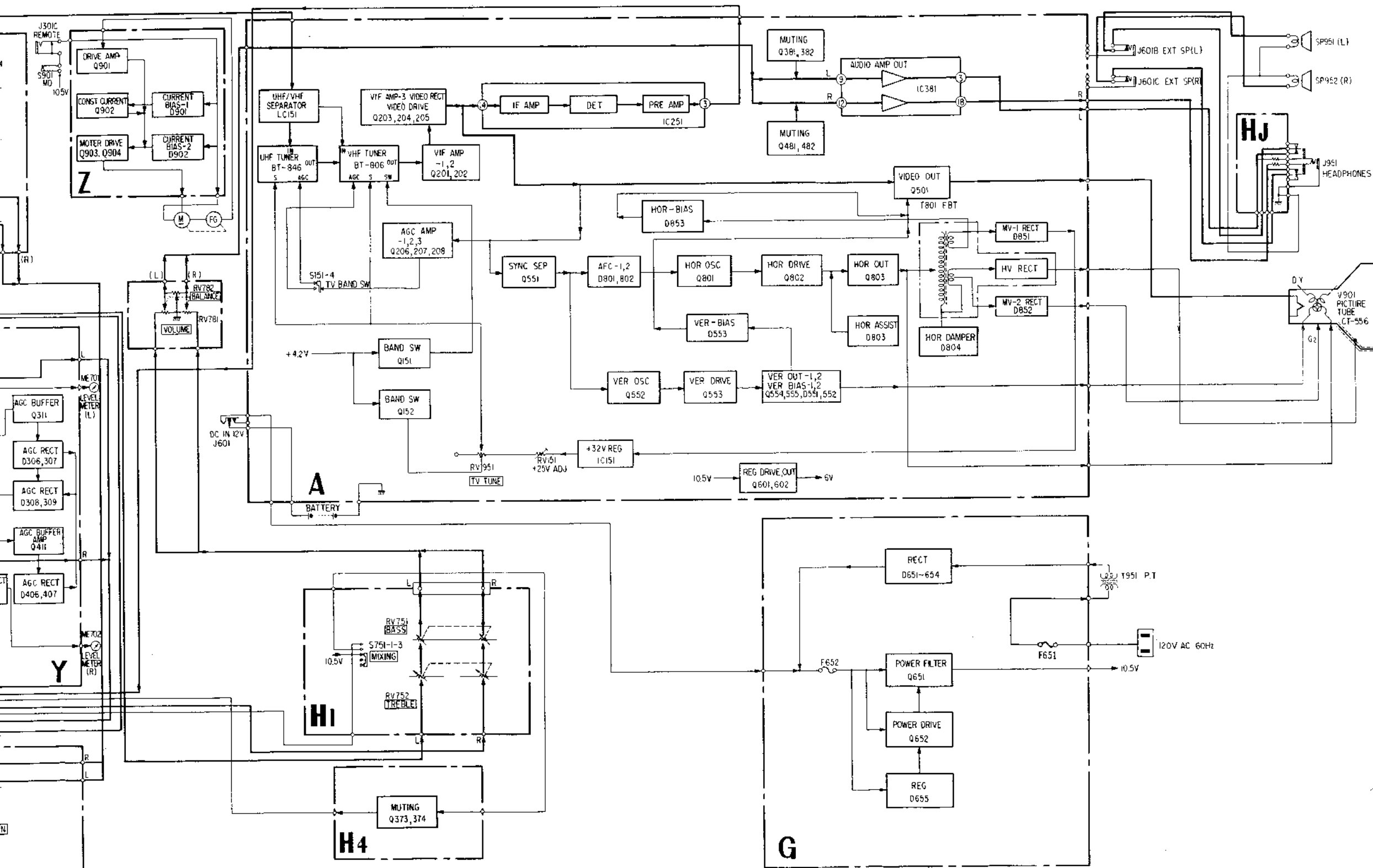
MEMO

A series of horizontal dotted lines for writing a memo.

FX-414 FX-414

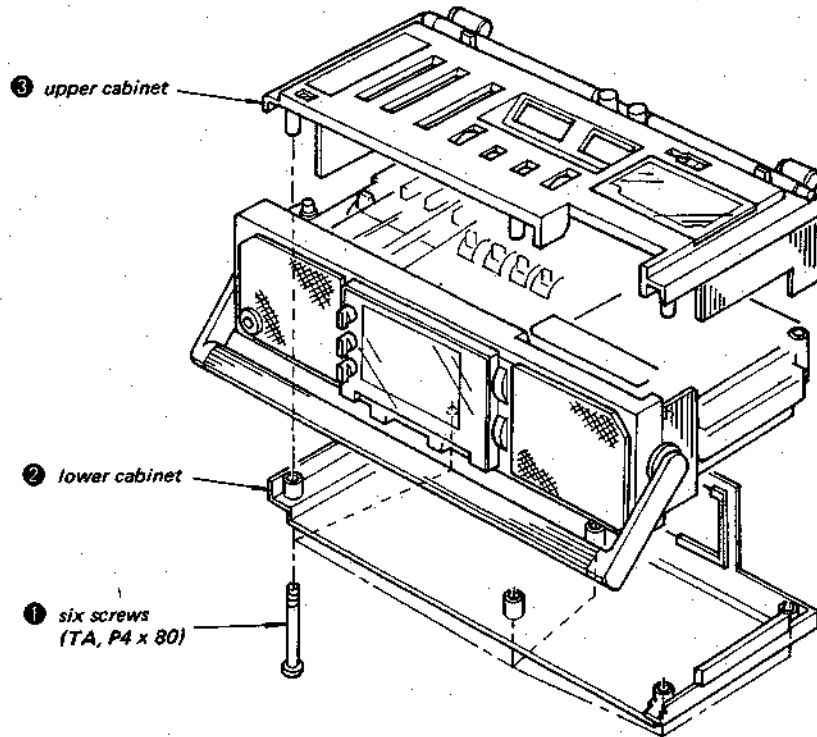
1.2. BLOCK DIAGRAM



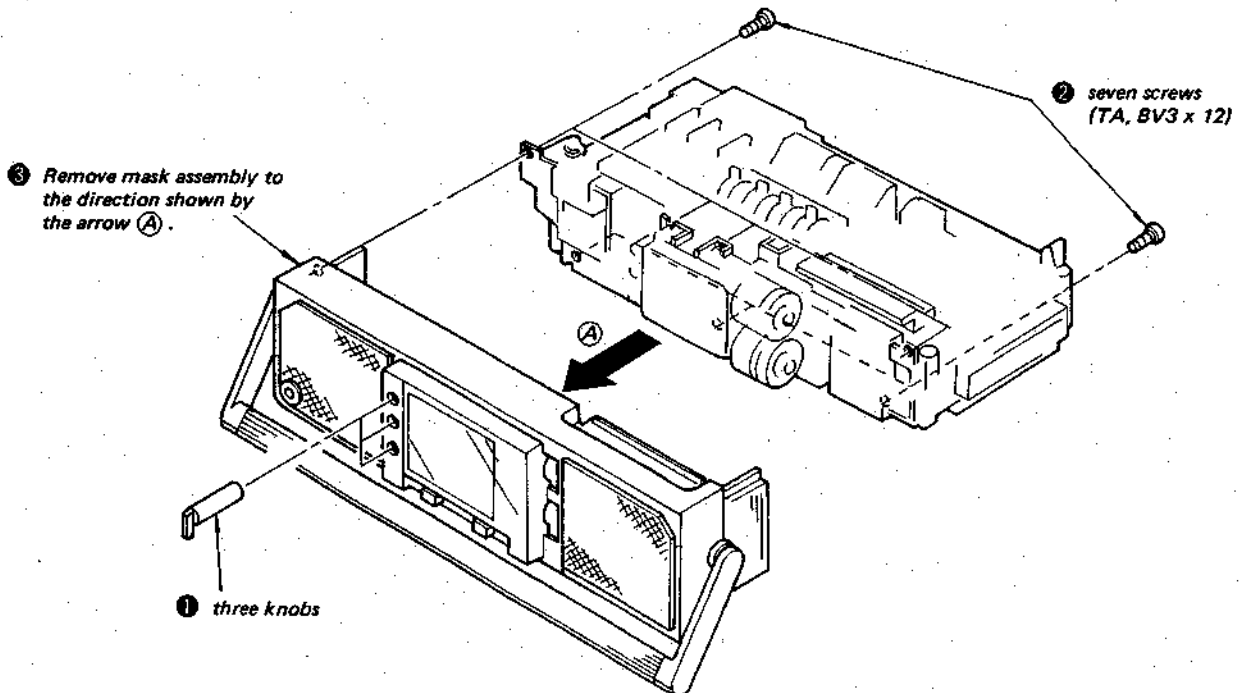


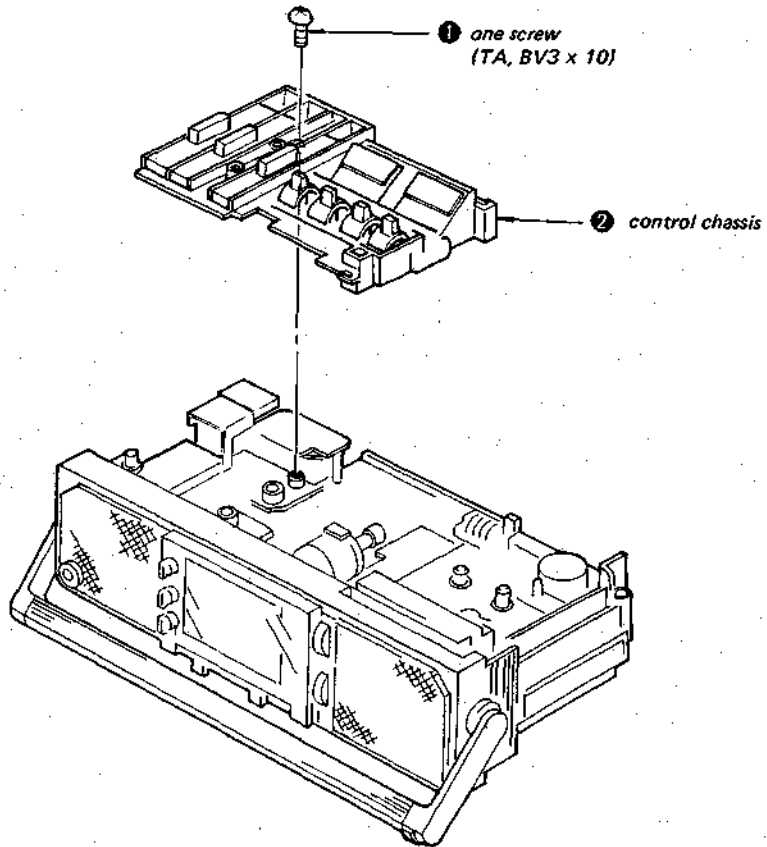
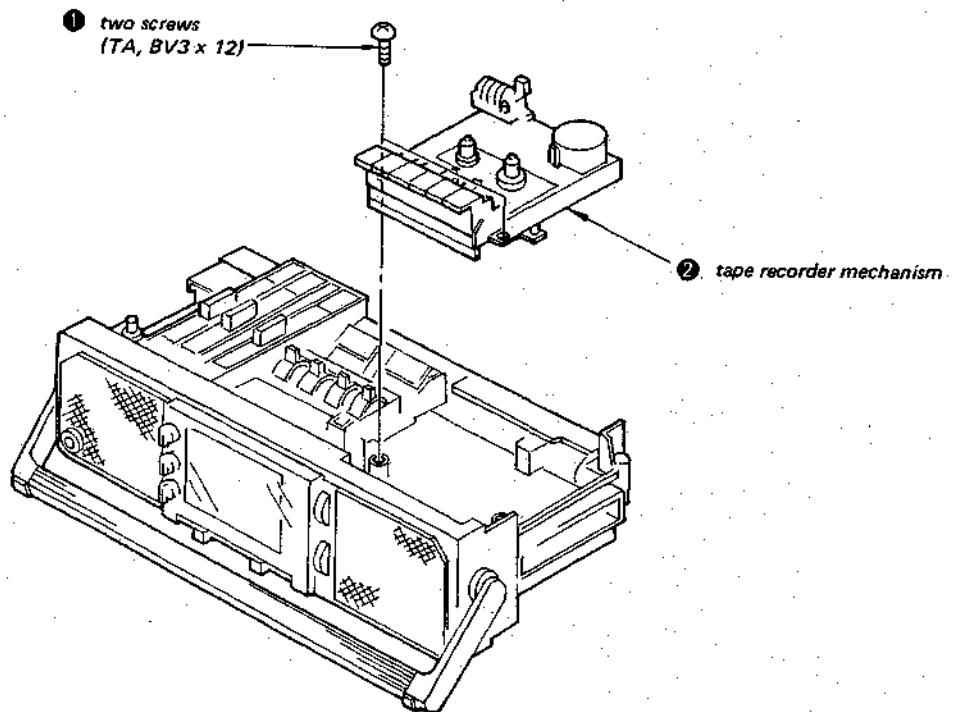
**SECTION 2
DISASSEMBLY**

2-1. UPPER & LOWER CABINETS REMOVAL

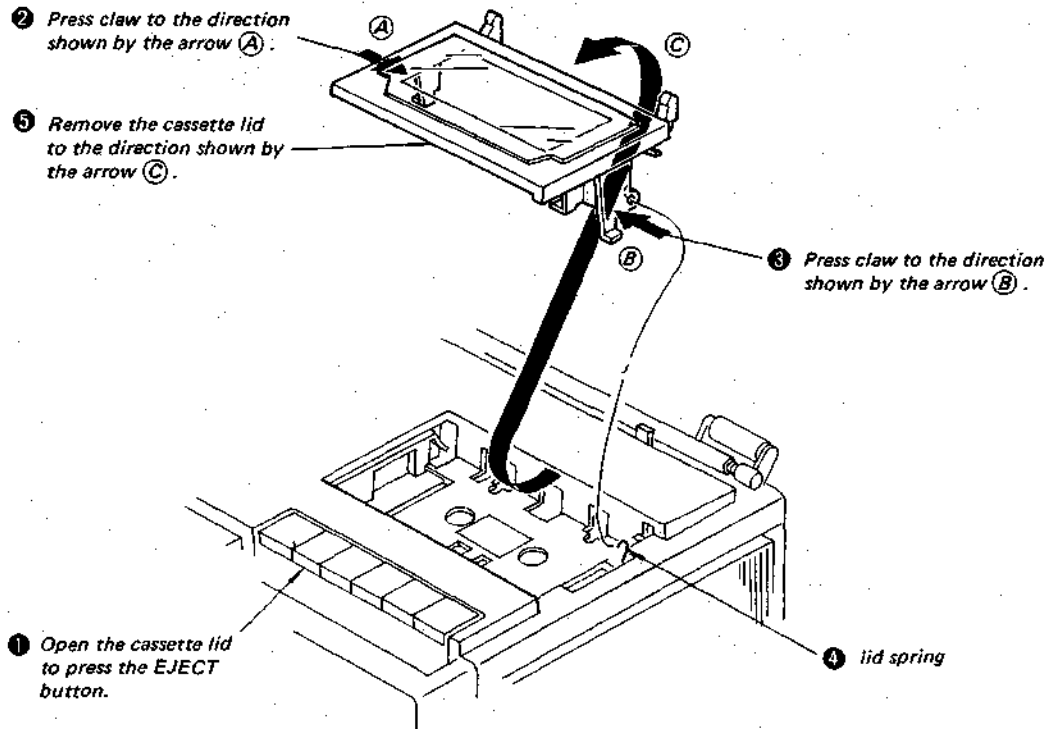


2-2. MASK ASSEMBLY REMOVAL

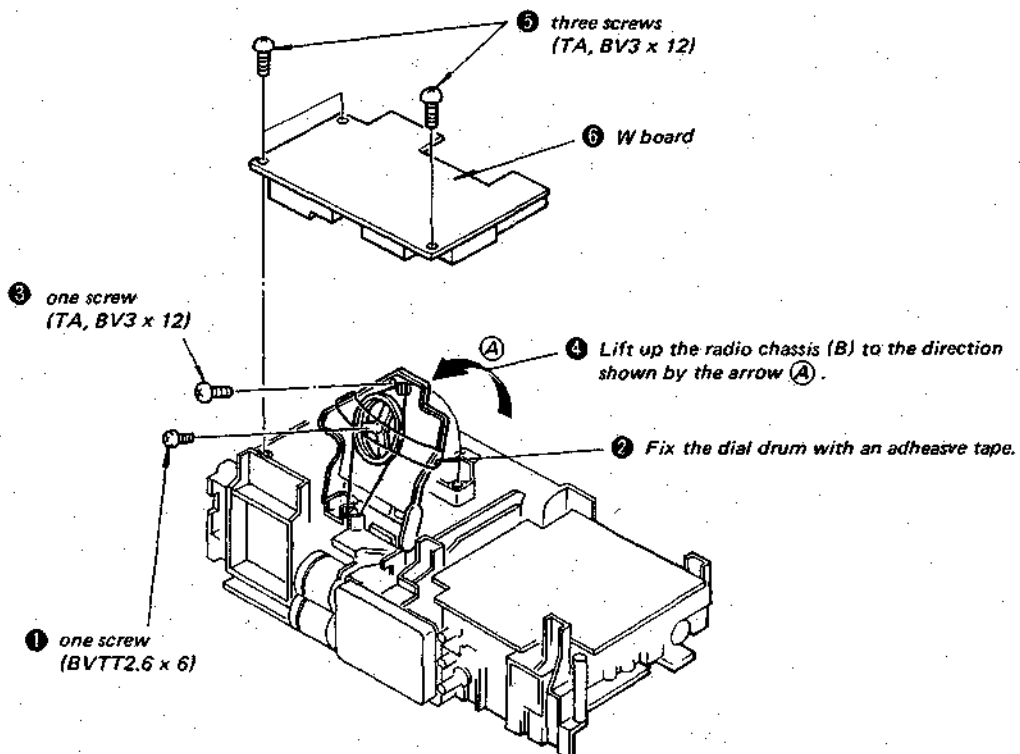


2-3. CONTROL CHASSIS REMOVAL**2-4. TAPE RECORDER MECHANISM REMOVAL**

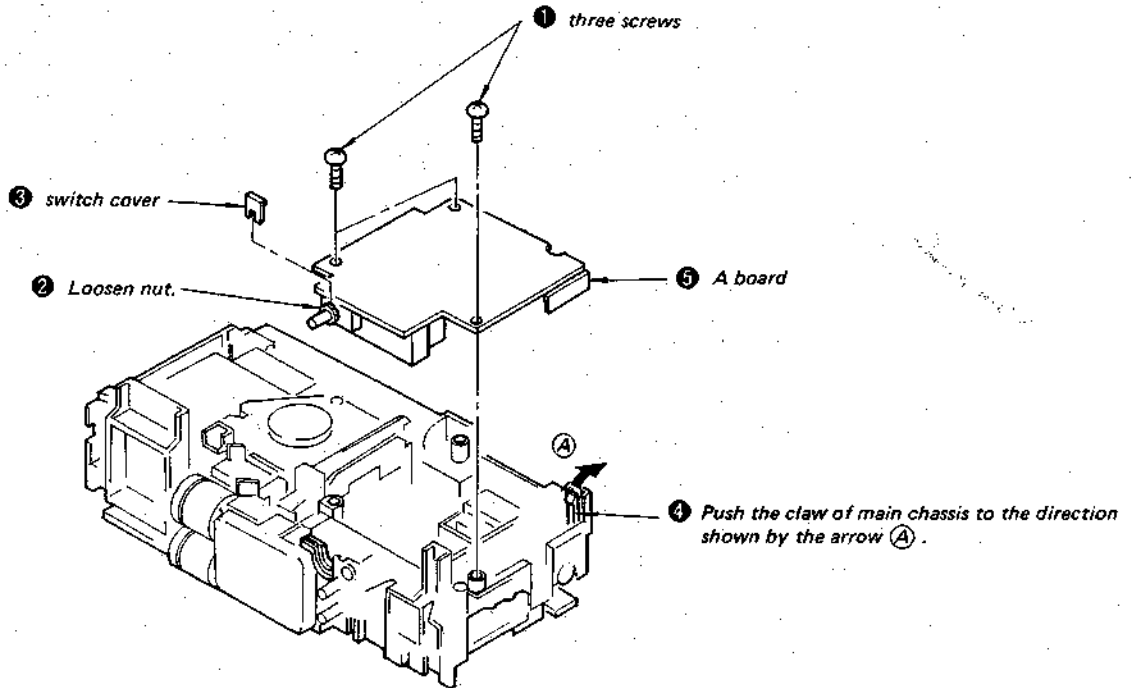
2.5. CASSETTE LID REMOVAL



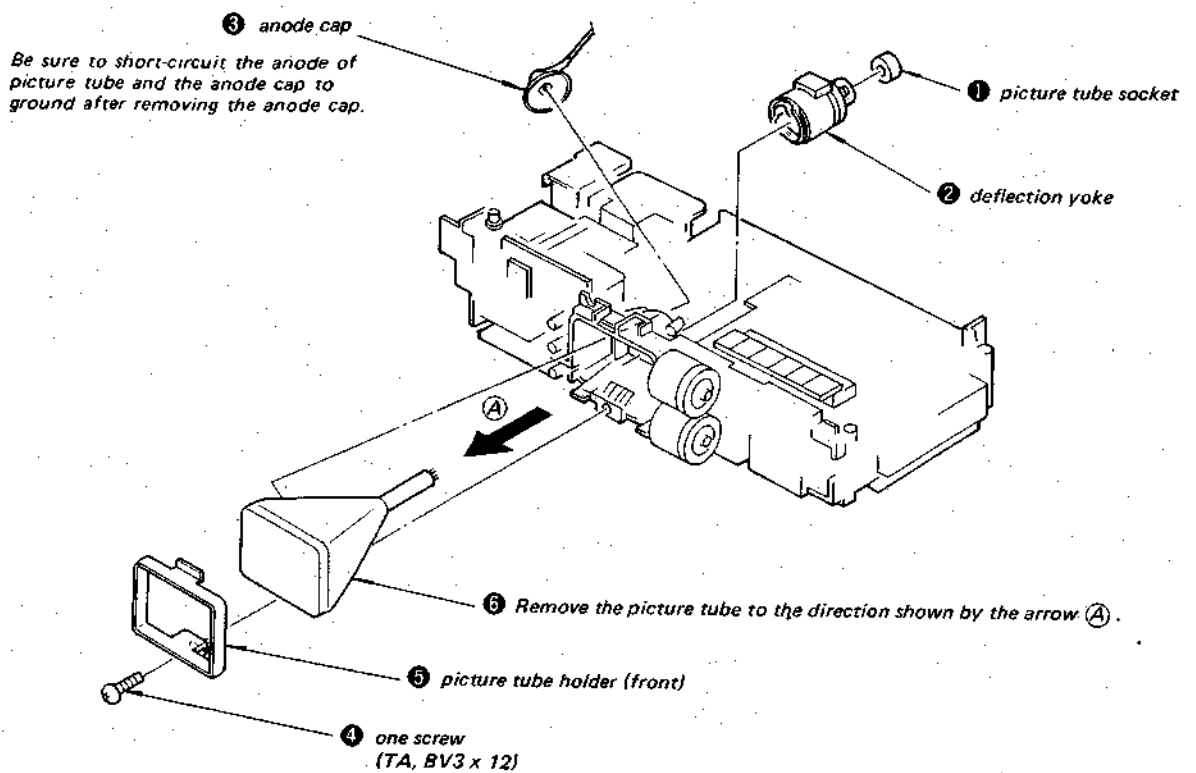
2.6. W BOARD REMOVAL



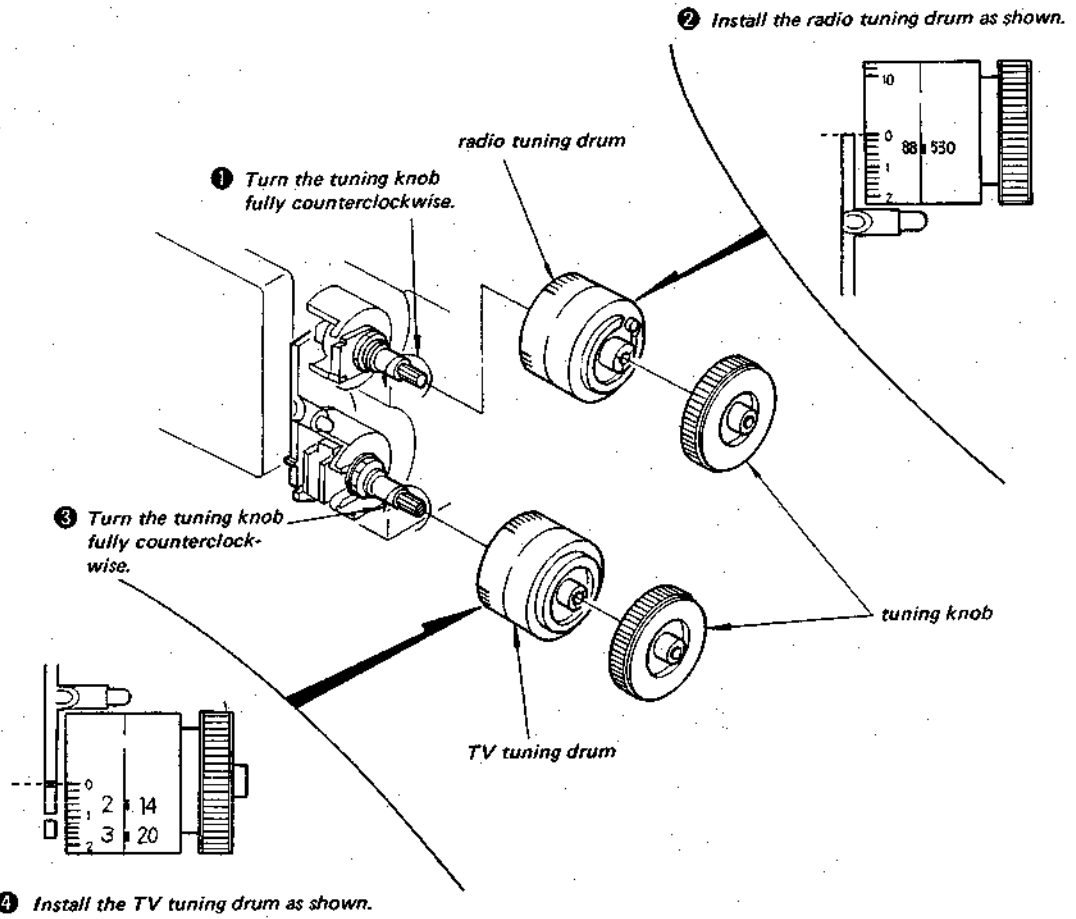
2-7. A BOARD REMOVAL



2-8. PICTURE TUBE REMOVAL

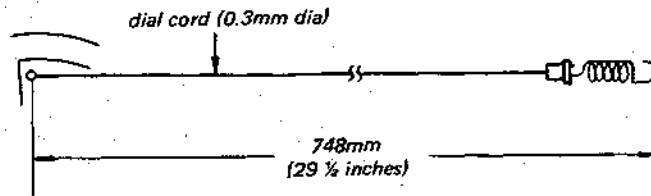


2-9. TUNING DRUM INSTALLATION

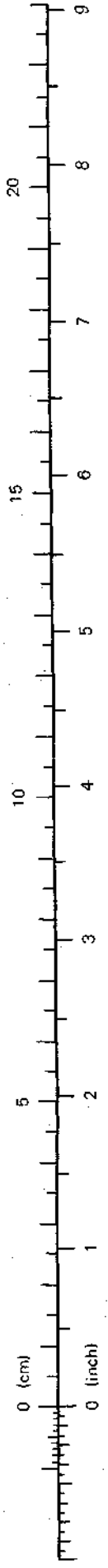
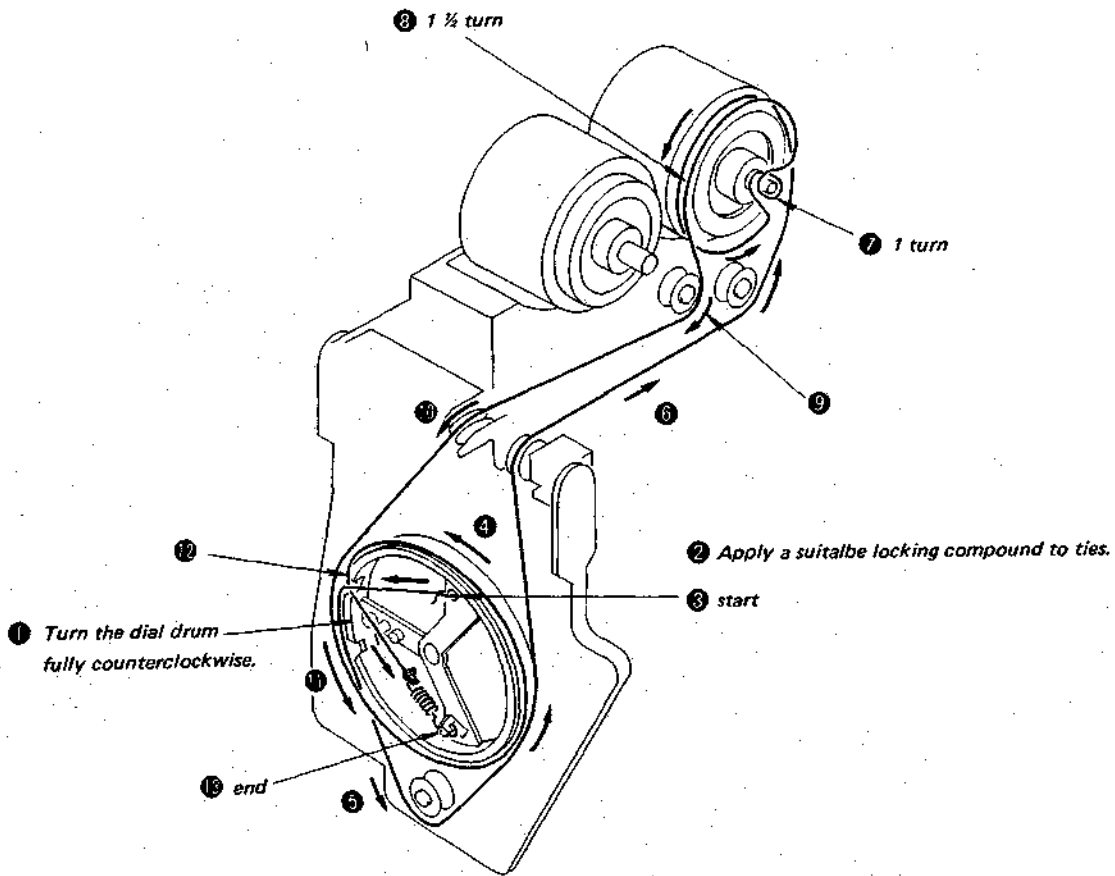


2-10. DIAL CORD STRINGING

(1) Preparation



(2) Dial Cord Stringing



SECTION 3 ADJUSTMENTS

3-1. TAPE RECORDER SECTION

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. These adjustments should be performed with 12V dc supplied to DC IN 12V jack, unless otherwise specified.

Note: Test Equipment Required

1. VTVM
2. Regulated DC Power Supply
3. Dc Ammeter
4. Speed Checker LFM-30 or Digital Frequency Counter
5. Af Oscillator
6. Attenuator
7. Spring Scale
8. Cassette Torque Meter CQ-102A and CQ201A
9. Test Tape P-4-A81S, WS-48 and P-4-L81
10. Blank Tape CS-4-1

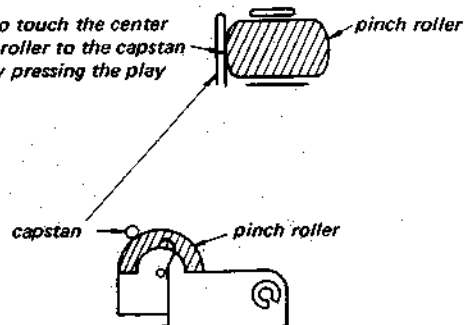
Torque Adjustment

Mode	Sony Torque Meter	Specification
Forward	CQ-102A	23 – 55 g · cm (0.32 – 0.76 oz · inch)
Fast Forward	CQ-201A	50 g · cm or more (0.7 oz · inch or more)
Rewind	CQ-201A	55 g · cm or more (0.77 oz · inch or more)

Note: When the specification of Fast Forward or Rewind torque is not satisfied, clean the rubber portion of each idler. If necessary, replace the idler.

Pinch Roller Pressure Measurement

- ① Be sure to touch the center of pinch roller to the capstan by slowly pressing the play button.

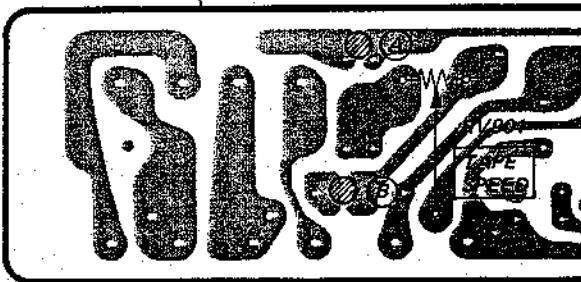
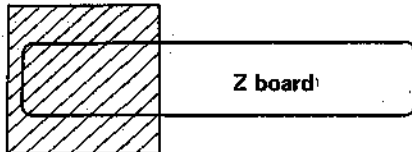
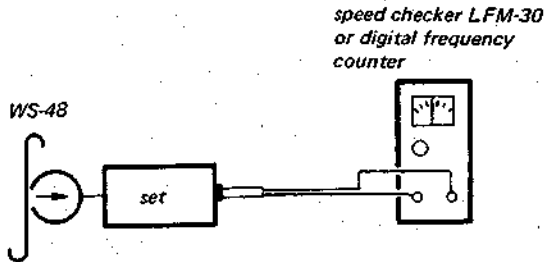


- ② Read the scale when the pinch roller just touches the capstan and starts to rotate.

Specification: 350 – 450 g
(1.25 – 1.55 oz)

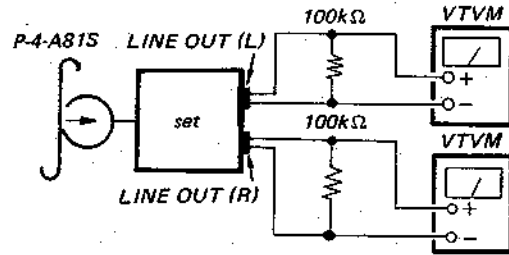
Tape Speed Adjustment

1. Playback the test tape (WS-48).
2. Adjust RV901 for 3kHz \pm 30Hz on frequency counter or \pm 1% on speed checker.
3. If necessary, solder (A) or (B) and repeat above step.

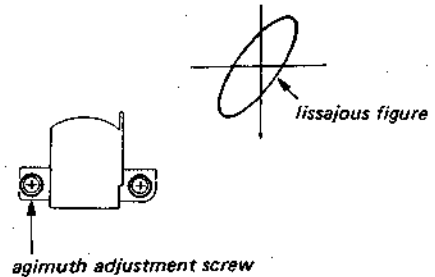
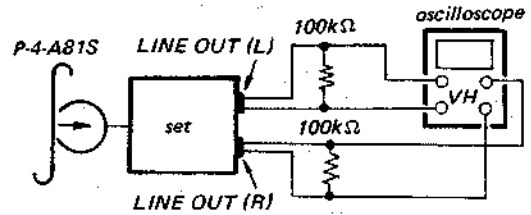


Record/Playback Head Azimuth Adjustment

1. Playback the test tape (P-4-A81S)



2. Adjust the azimuth adjustment screw so that both left and right channel LINE OUT levels are maximum.
3. Adjust the azimuth adjustment screw finely so that the lissajous figure is linear.

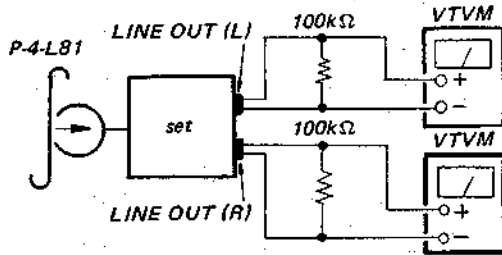


4. Press the STOP and Playback buttons several times and confirm that LINE OUT levels do not change.
5. Apply a suitable locking compound to the adjustment screw.

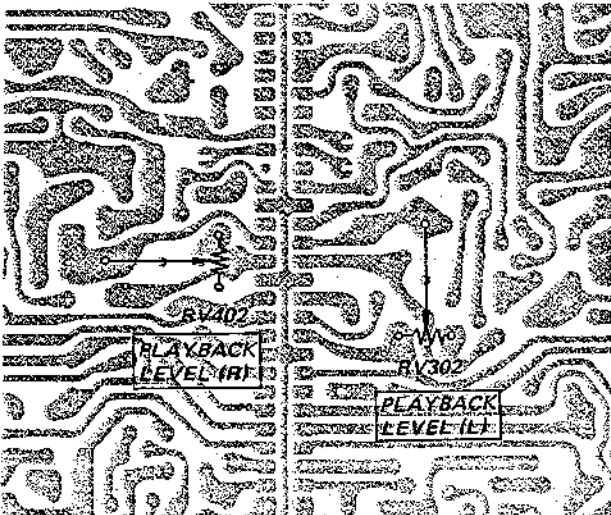
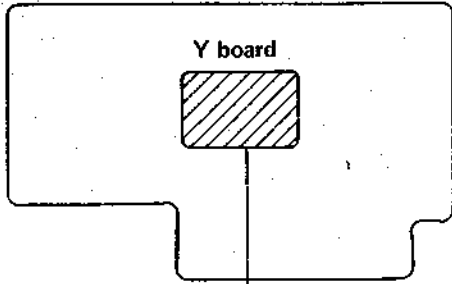
Note: Several peaks may appear, take the highest.

Playback Level Adjustment

1. Playback the test tape (P-4-L81).

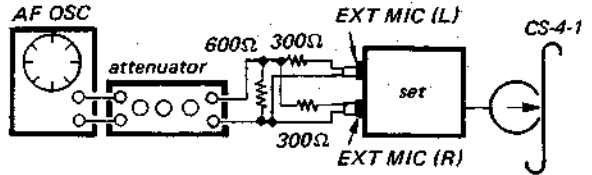


2. Adjust RV302 (L-CH) and RV402 (R-CH) so that the LINE OUT levels are 0.42V to 0.58V (-5.5dB to -2.5dB).

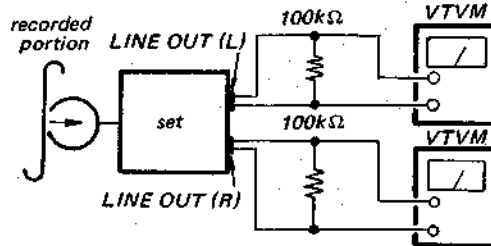


Record Bias Adjustment

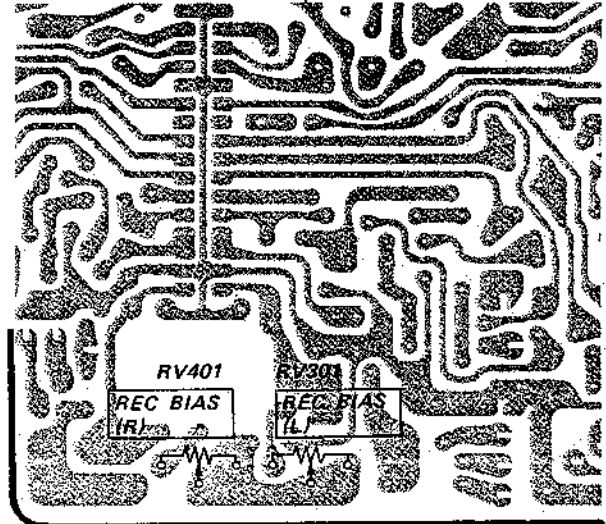
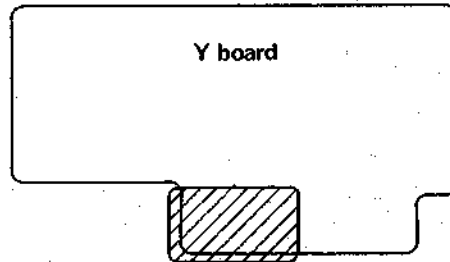
1. Record -80dB 600Hz and 6kHz signals.



2. Playback recorded portion and confirm that the level difference between 6kHz output and 600Hz output is within ± 1dB.

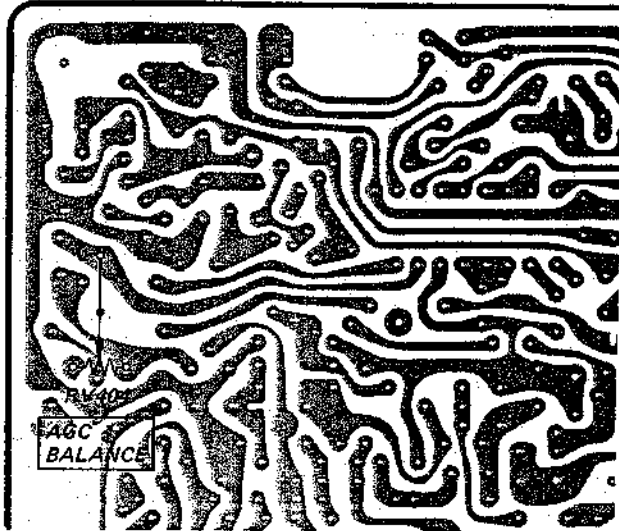
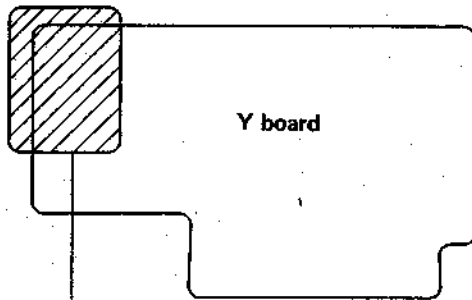
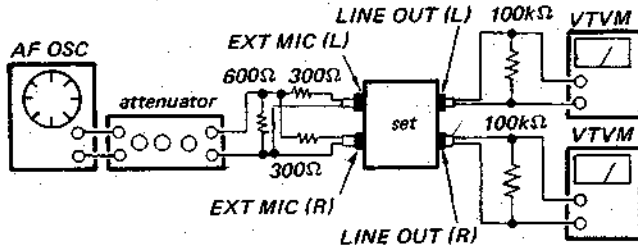


3. If necessary, adjust RV301 (L-CH) and RV401 (R-CH) and repeat above steps several time.



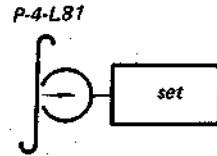
AGC Balance Adjustment

1. Apply 1kHz (-45dB) signal to left and right EXT MIC jacks.
2. Adjust RV404 so that the LINE OUT level of right channel equal to that of left channel.

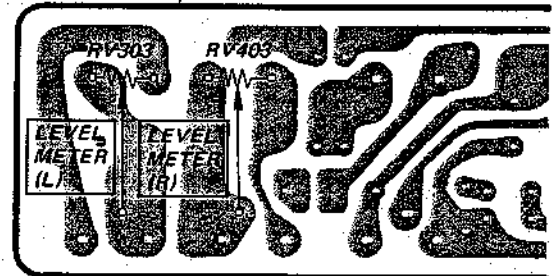
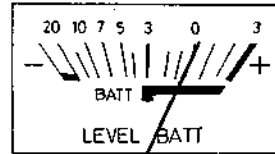


Level Meter Adjustment

1. Playback the test tape (P-4-L81)



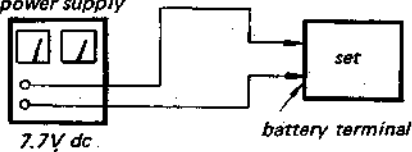
2. Adjust RV303 (L-CH) and RV403 (R-CH) so that pointer indicates 0.



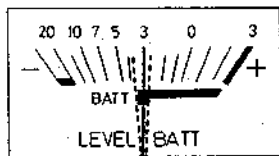
Battery Meter Adjustment

1. Apply 7.7V dc on battery terminals.

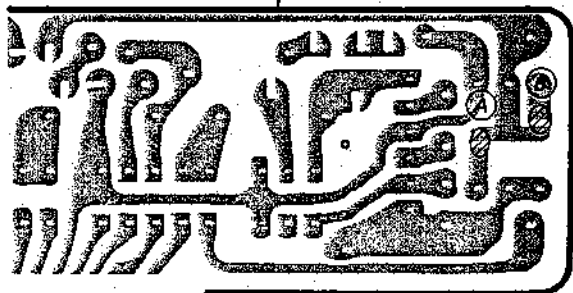
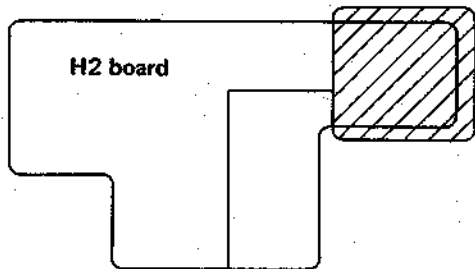
regulated-dc
power supply



2. Tune in a TV off-air signal.
3. Set the METER switch to BATT position.
4. Confirm that pointer indicates as shown below.
5. If necessary, change the soldering portion

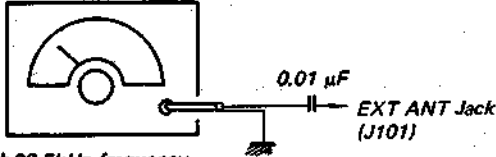


soldering portion	pointer deflection
(A)	↑
(A) and (B)	↑↓
open	↑↓
(B)	↓

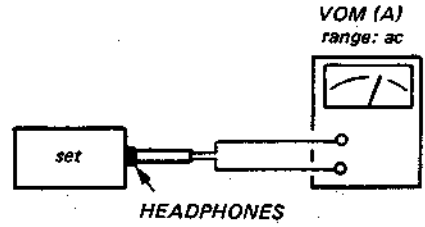


3-2. RADIO SECTION
(1) FM

FM rf signal generator



± 22.5kHz frequency deviation by 400Hz signal (modulation turned off for IF Alignment 2).



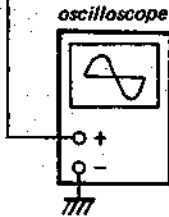
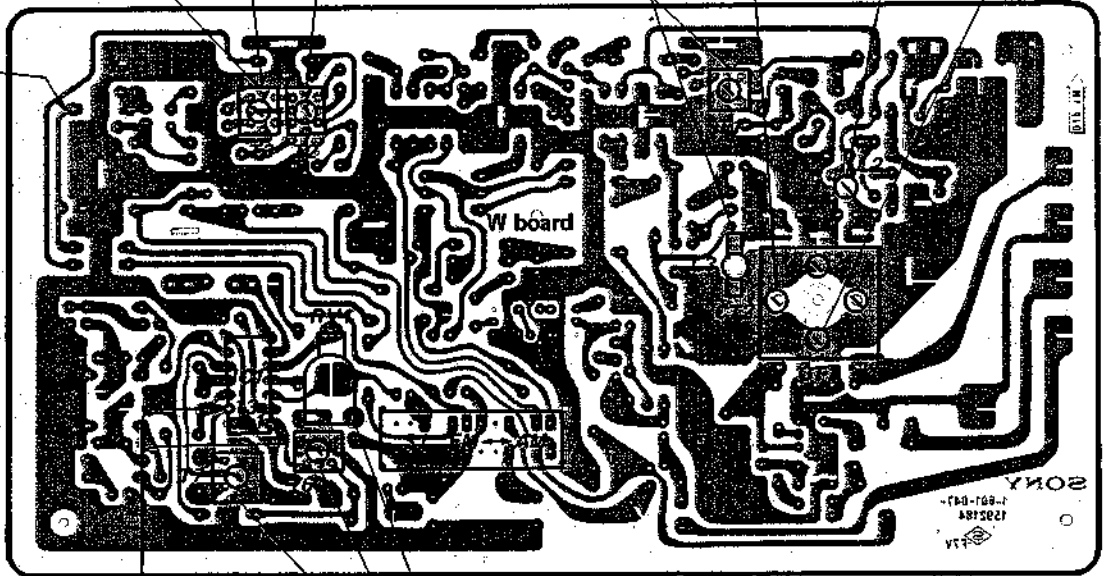
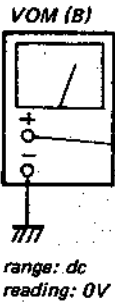
Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT (2)
Adjust for 0V reading on VOM (B).
10.7MHz (with no modulation)
T3

FM IF ALIGNMENT (1)		
Adjust for a maximum reading on VOM (A).		
10.7MHz (with modulation)		
T3	T2	T1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
87.1MHz	108.5MHz
L3	CT2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
87.1MHz	108.5MHz
L2	CT1



38kHz ADJ

1. Connect an oscilloscope to pin 13 of IC1.
2. Receive a stereo signal.
3. Adjust T7 for a maximum level of waveform on the oscilloscope.

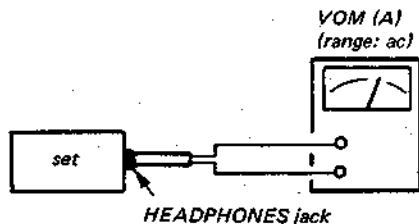
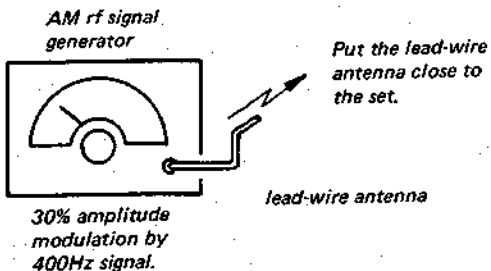
STEREO SEPARATION

1. Receive a stereo signal.
2. Adjust RV1 for a best stereo separation.

19kHz ADJ

1. Connect an oscilloscope to pin 1 of IC1.
2. Receive a stereo signal.
3. Adjust T6 for a maximum level of waveform on the oscilloscope.

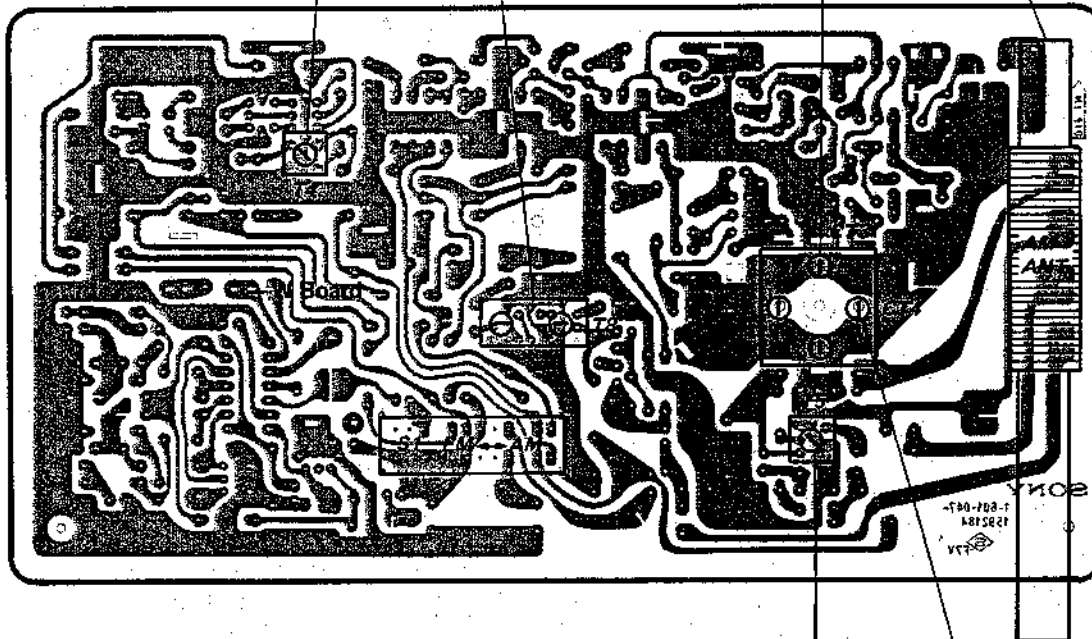
(2) AM



Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM (A).	
455kHz	
T4	T8

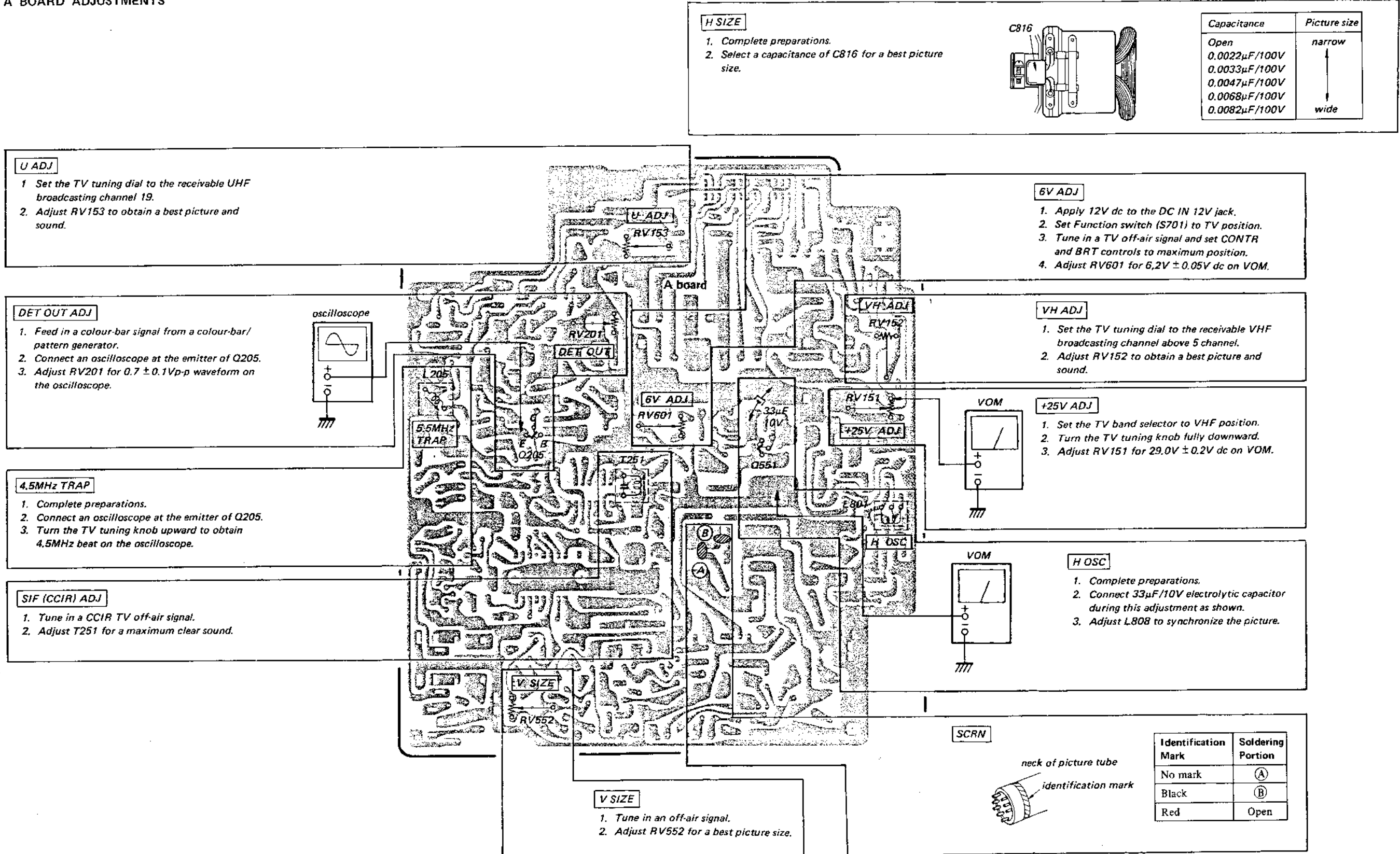
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
620kHz	1,400kHz
CT3	AM ANT.



T5	CT4
520kHz	1,680kHz
Adjust for a maximum reading on VOM (A).	
AM FREQUENCY COVERAGE ADJUSTMENT	

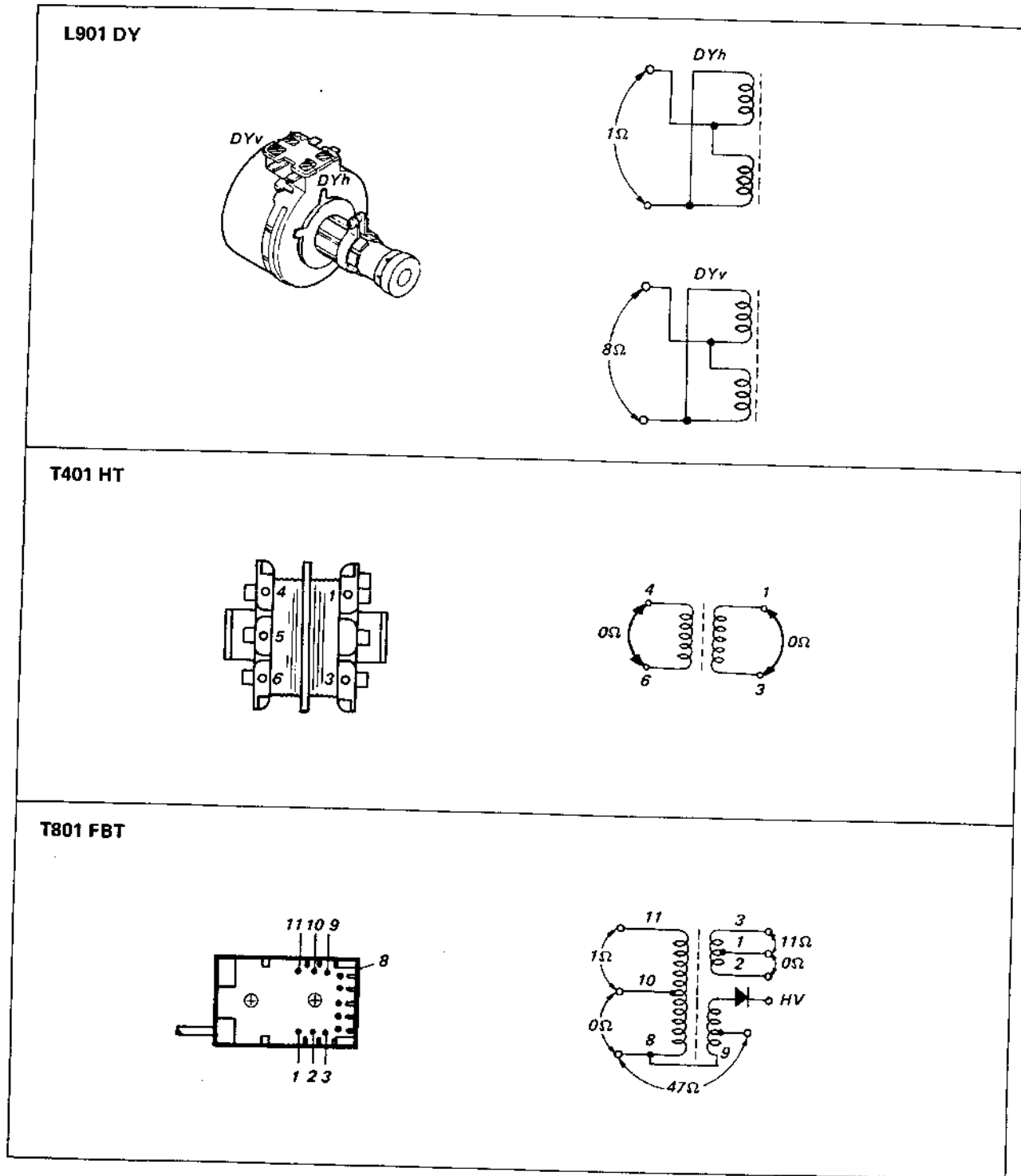
3-3. TV SECTION

A BOARD ADJUSTMENTS



SECTION 4
DIAGRAMS

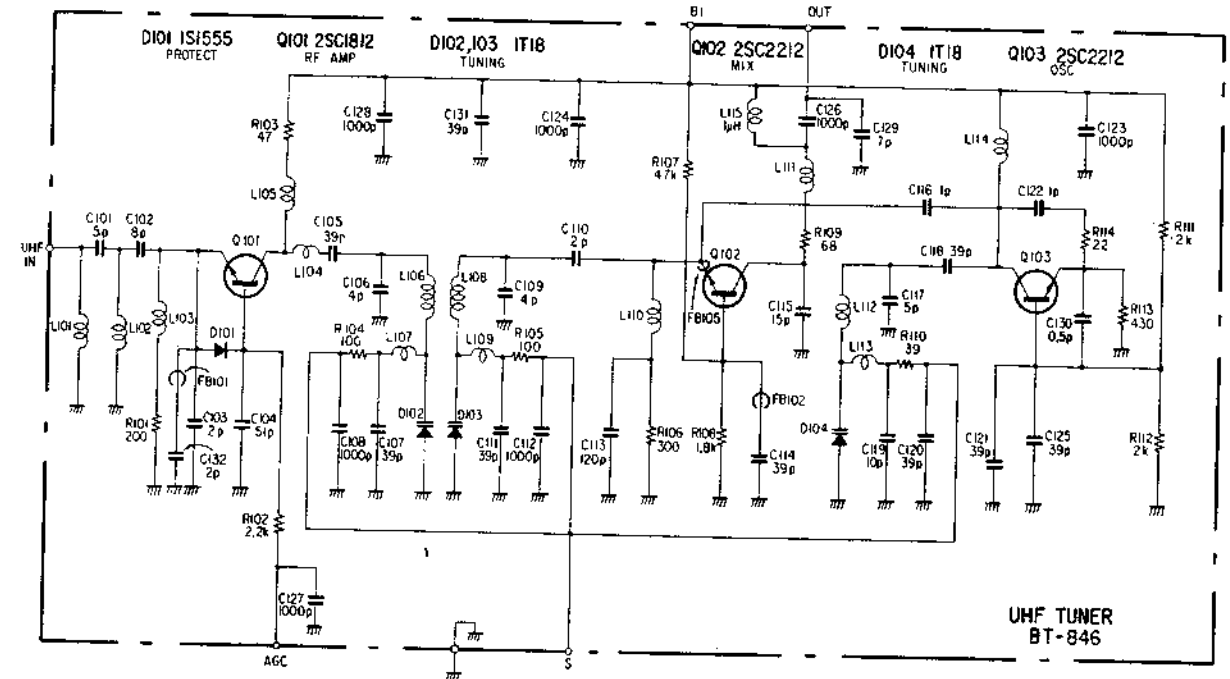
4-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



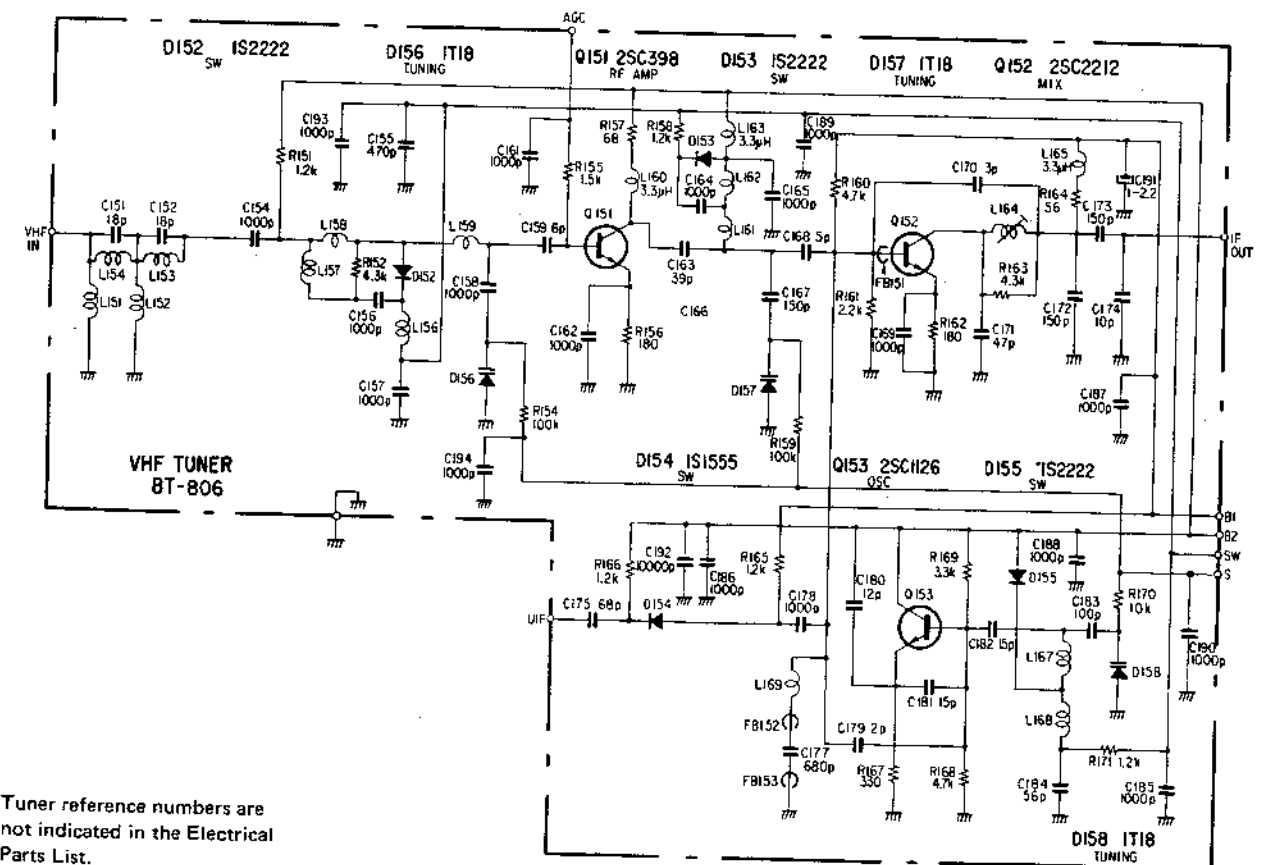
Note:
DC resistance measurements shown with coils and trans-
formers disconnected from circuit.

4-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

- UHF Tuner -
(BT-846)



- VHF Tuner -
(BT-806)



Note: Tuner reference numbers are
not indicated in the Electrical
Parts List.

4-3. MOUNTING DIAGRAMS

X1 H7 H6 H4 (MOTOR DRIVE) Z

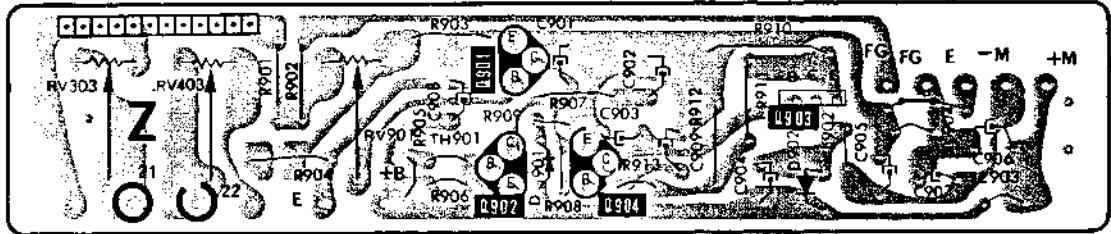
A

B

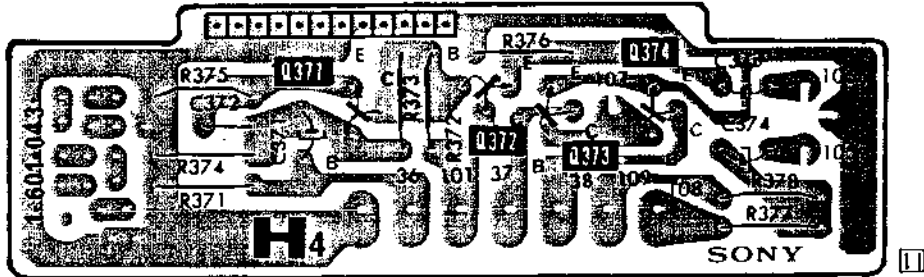
C

D

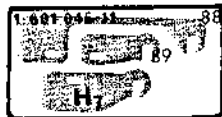
- Z Board -



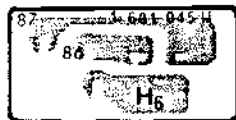
- H4 Board -



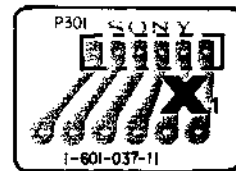
- H7 Board -



- H6 Board -



- X1 Board -



1

2

3

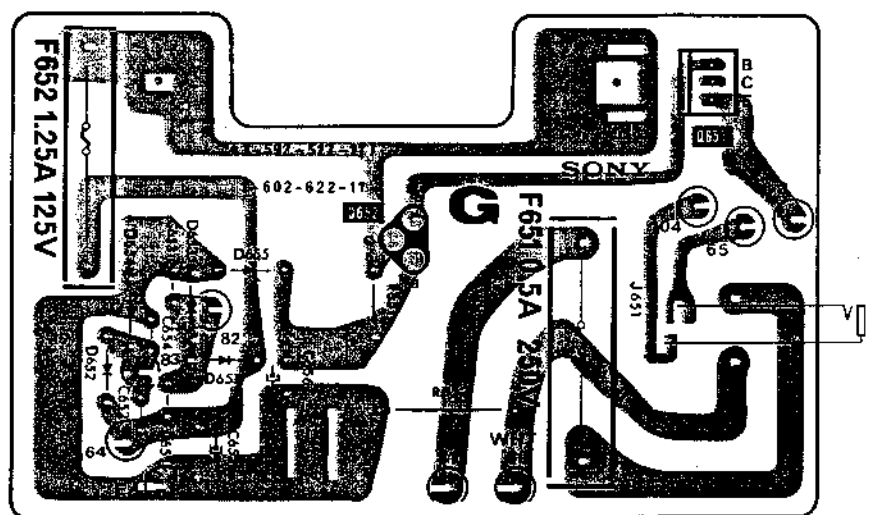
4

5

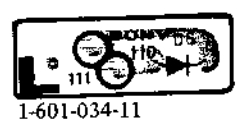
G [POWER] **L** **X4**

A B C D

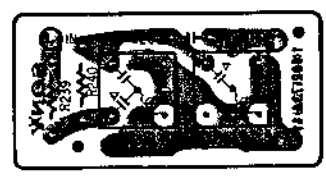
- G Board -



- L Board -



- X4 Board - (Canadian model only)



1

2

3

4

5

HJ H5 X2

A

B

C

D

1

- H5 Board -

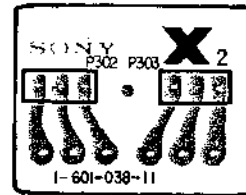
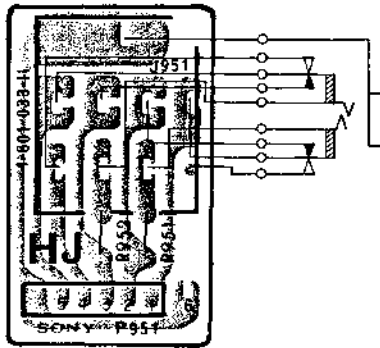


2

- HJ Board -

- X2 Board -

3



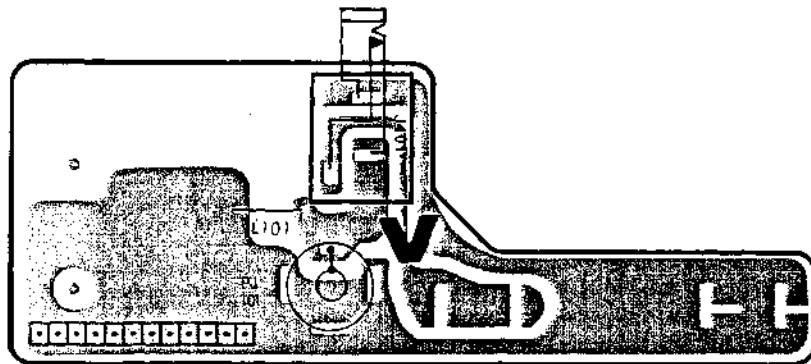
4

H2 V

A B C D

- V Board -

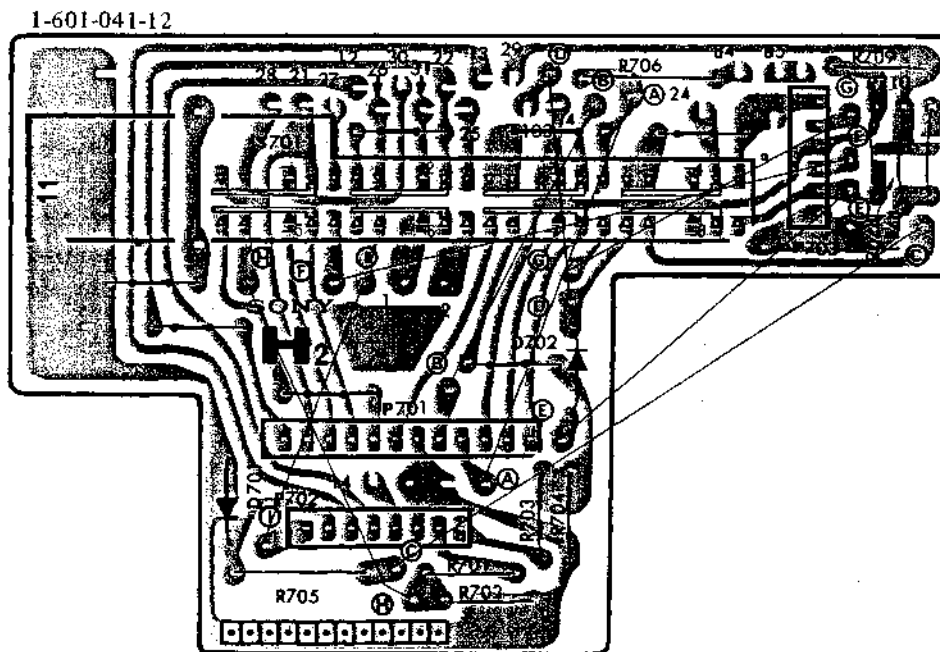
1



2

- H2 Board -

3



4

5

FX-414 FX-414

H1 H1

[MIXING]

A

B

C

D

E

F

G

- H1 Board -

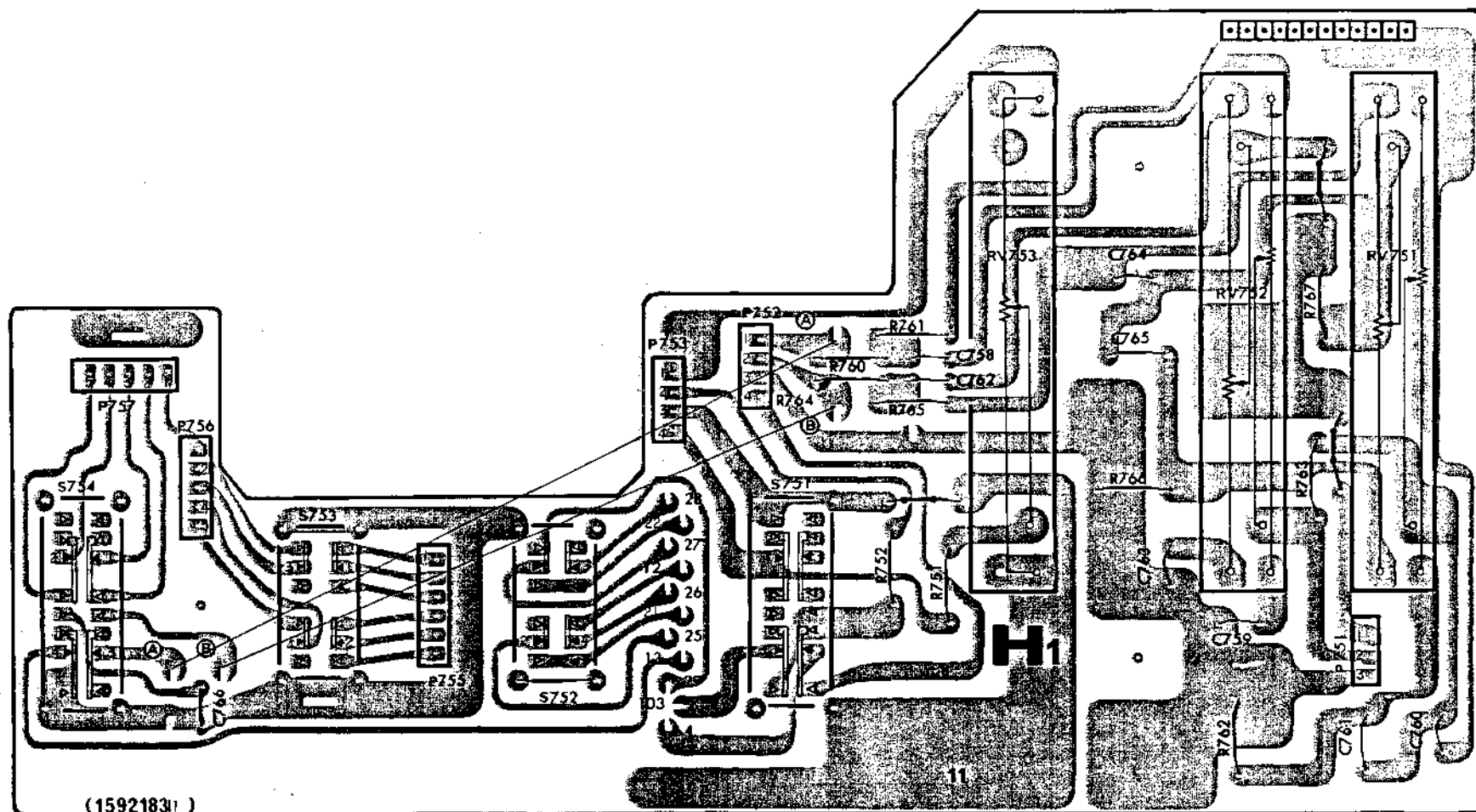
1

2

3

4

5



1-601-040-11

FX-414 FX-414

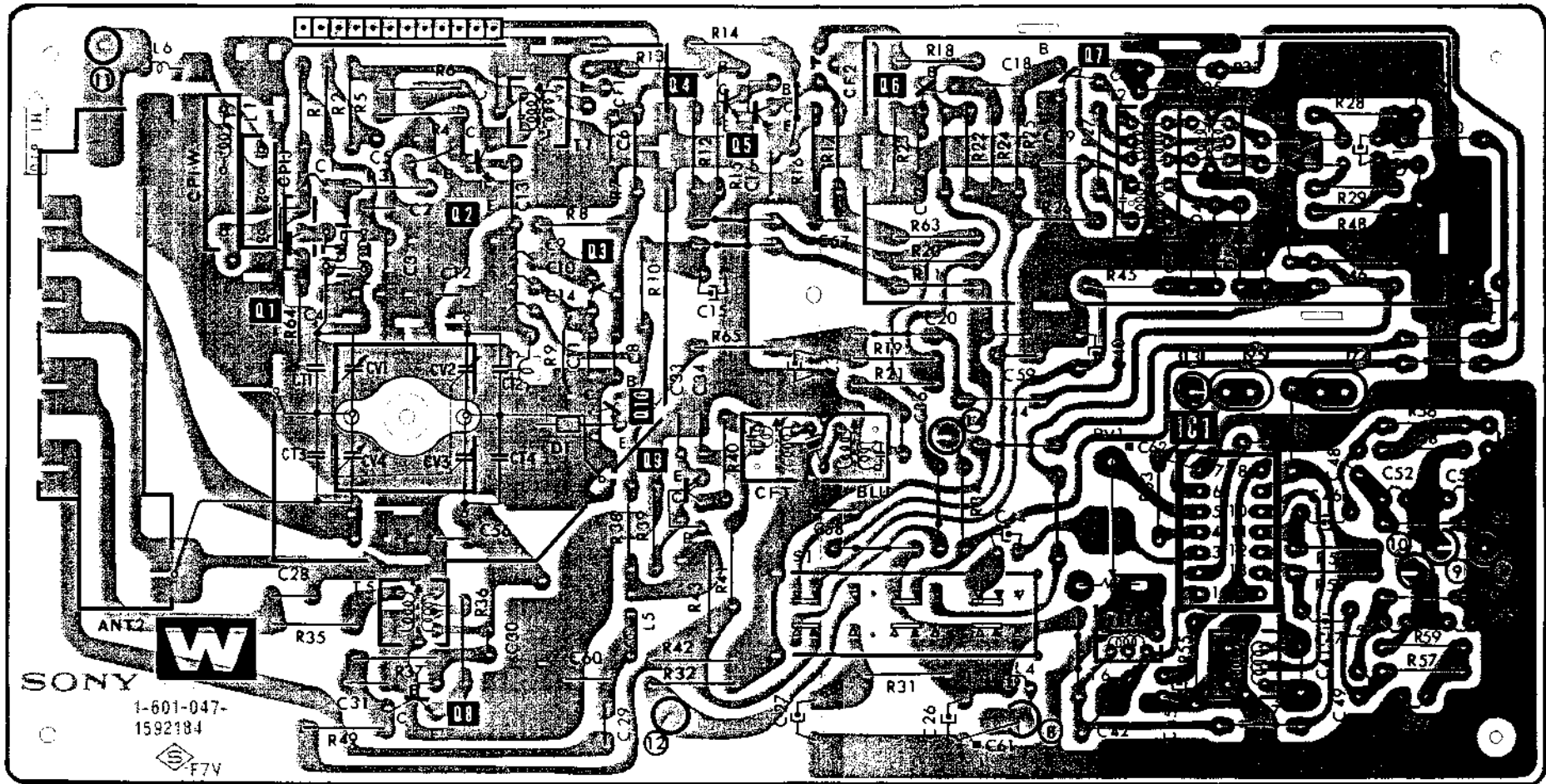
H3 [RADIO] W W H3

A B C D E F

- W Board -

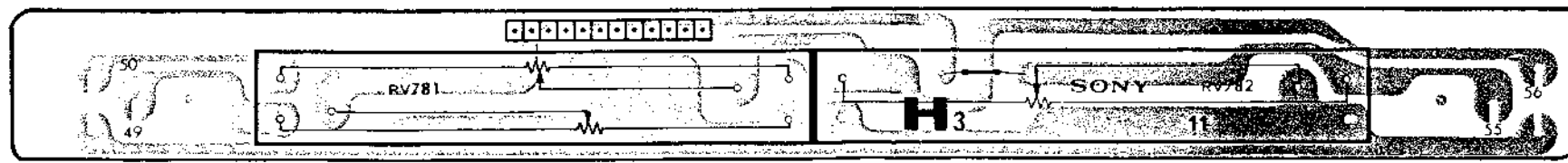
1	Q IC	1	2	3	4	5	6	7	Q IC
	D		8	10	9			ICI	D
	ADJ			1				4 5 3 2	ADJ
								RVI	

2
3
4



- H3 Board -

5



1-601-042-11

FX-414 FX-414

Y Y (TAPE RECORDER)

A B C D E F G

- Y Board -

1

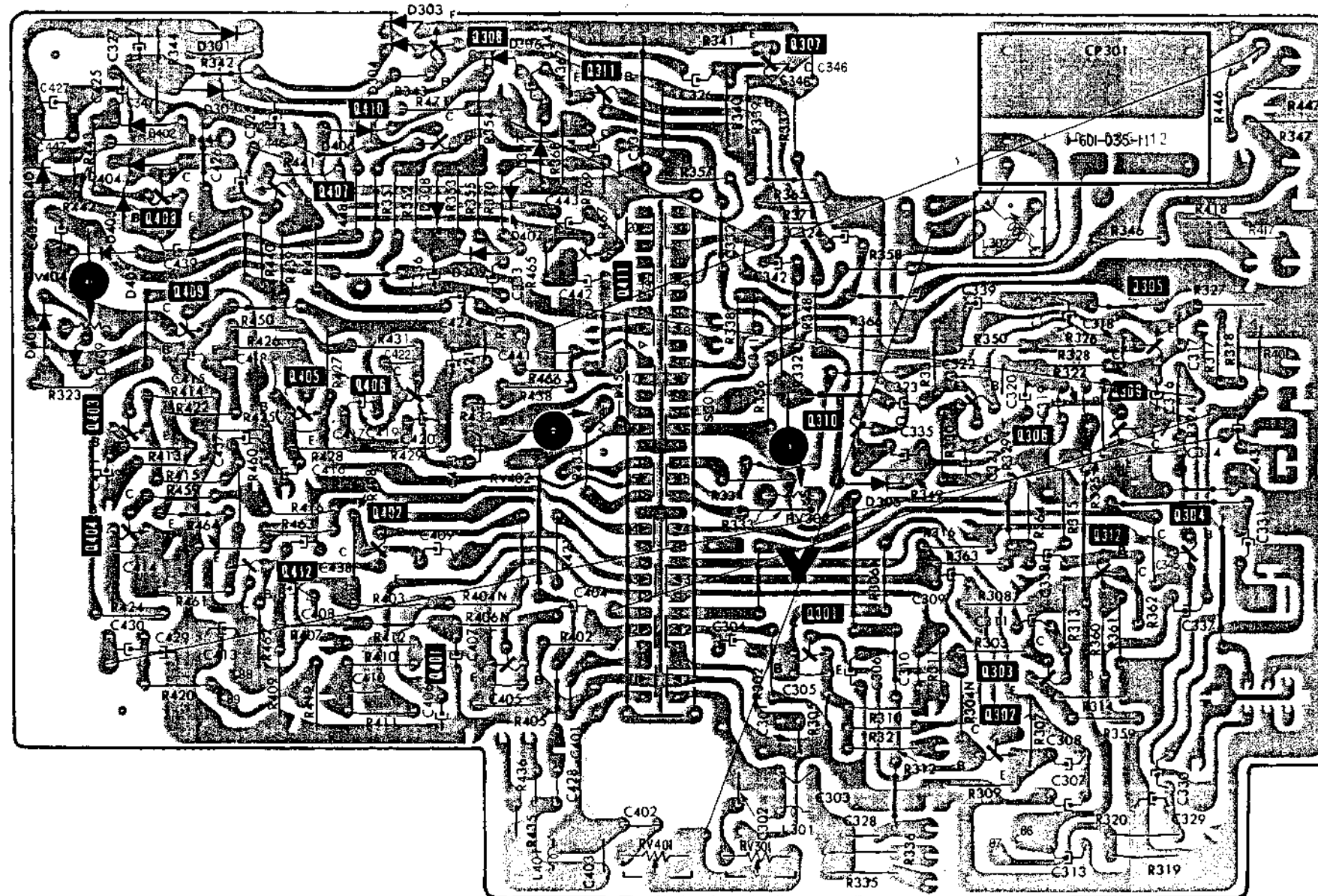
Q	403 408 404 409	407 40 405 406 412 402 401	308	311 411	307 310 301	306 303 302	305 309 304 312	Q
D	401 402 301 408 404 302 409 403 405	303 306 304 309 307 406 308 407			305			D
ADJ	RV404	RV402 RV401		RV301 RV302				ADJ

2

3

4

5



FX-414 FX-414

TV, VIF, SIF, AUDIO,
VIDEO, VER HOR
DEFLECTION POWER

A

A

A

B

C

D

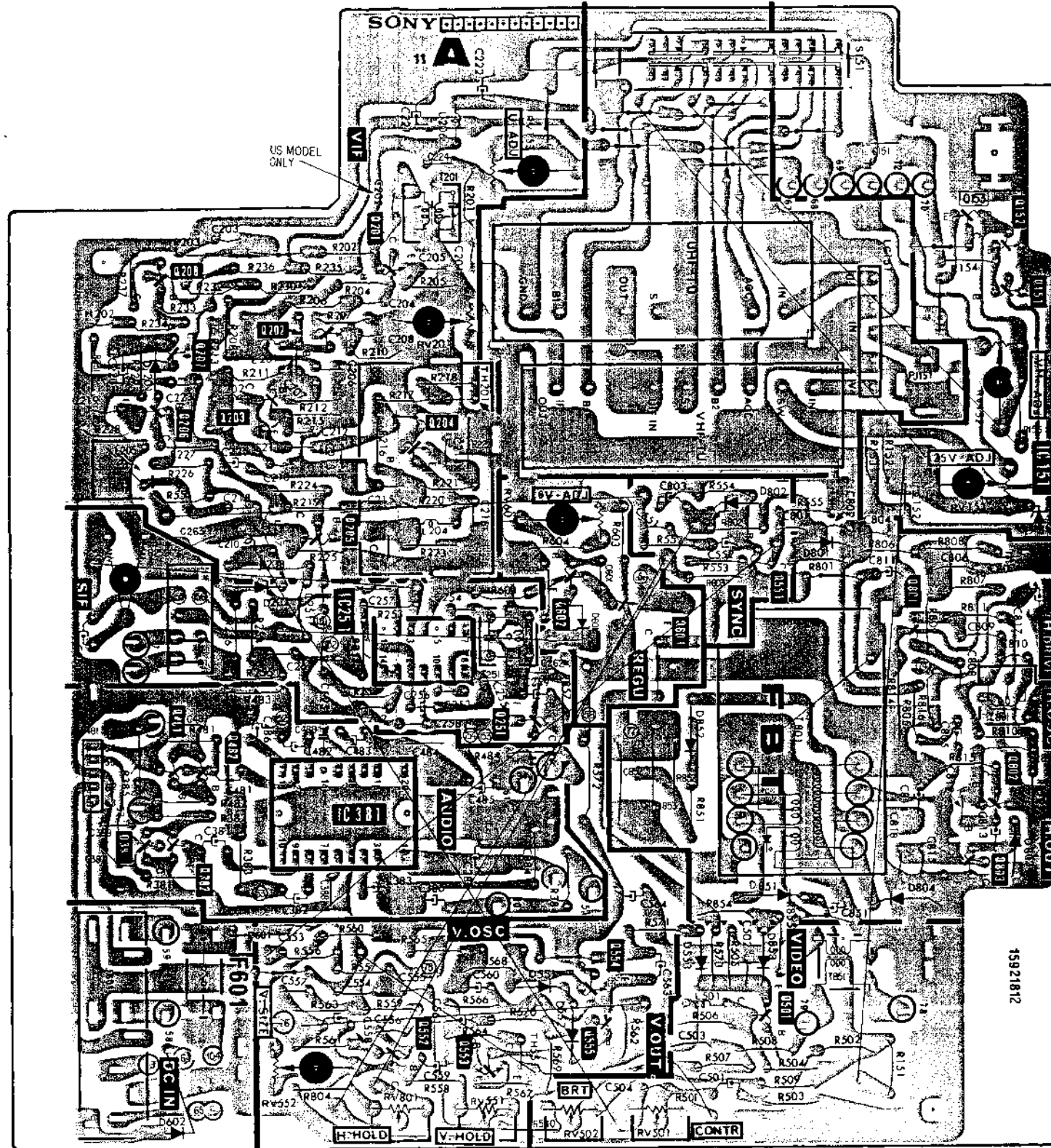
E

F

G

- A Board -

Q · IC	D	ADJ
		RV153
153		
201 152		
208		
151		
202		RV201
207	201	
		RV152
203 204		
206		
IC151	802	RV151
205	801	RV601
551 801	202	
IC251	601	
602		
601		
481 251	852	
482		
802		
IC381	803	
381 382	851-804	
803		
554	553-853	
	551	
501		
552	552	
555		
553		RV552
	602	
Q · IC	D	ADJ



FX-414 FX-414

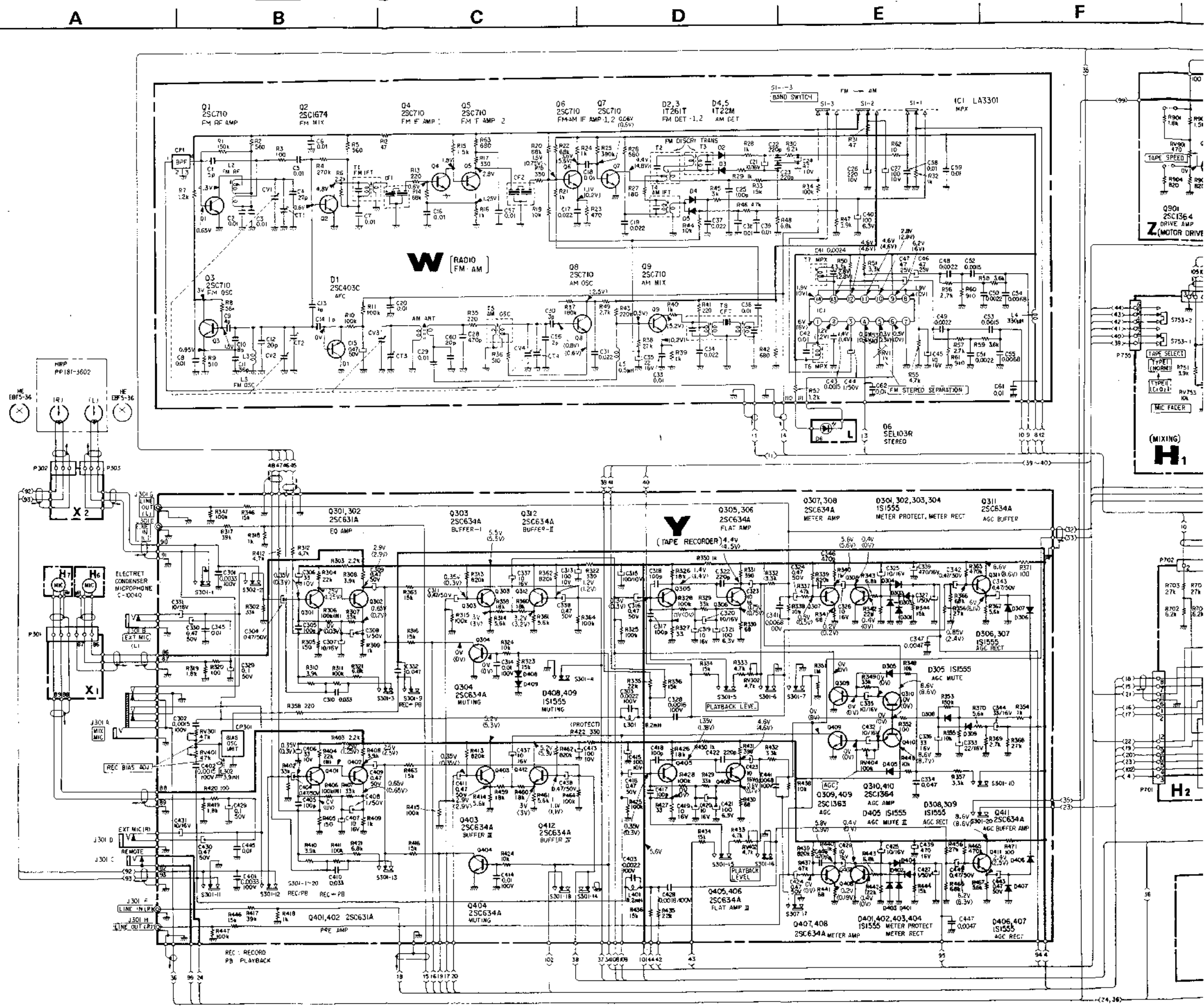
4-4. SCHEMATIC DIAGRAM

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

Note:

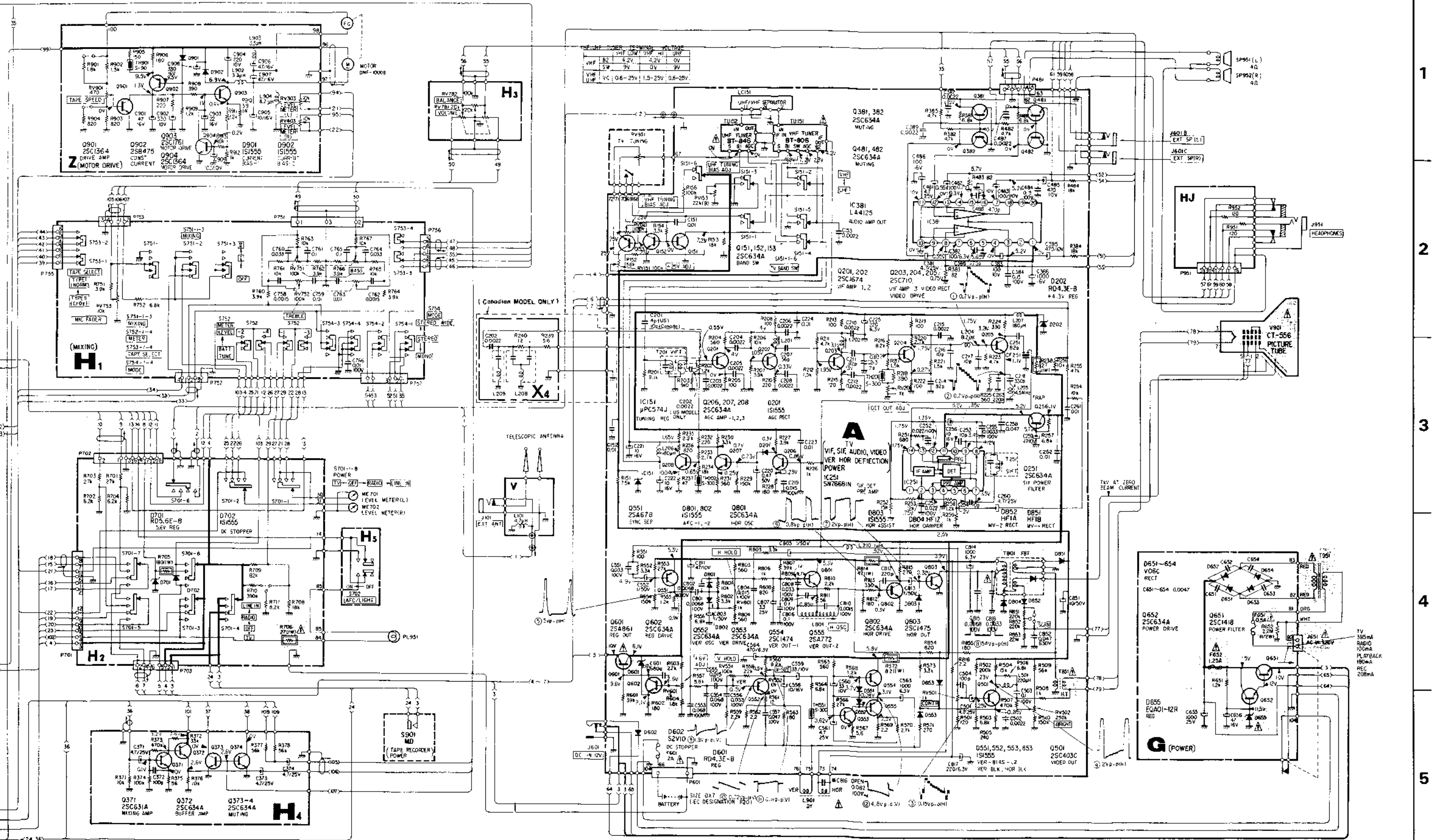
- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : μF , elect : electrolytic
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
- : nonflammable resistor.
- Δ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- * : selected to yield optimum performance.
- : adjustment for repair.
- Total current is measured with no cassette installed.
- : B+ bus.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltages in W board are taken under detuned conditions. no mark : FM
() : AM
- Voltages in Y board are taken under no-signal conditions in playback mode.
< > : record mode
- Voltages in A board are taken under tuned conditions with CONTR and BRIGHT controls set for best picture. no mark : CCIR
- Voltage variations may be noted due to normal production tolerances.

1
2
3
4
5

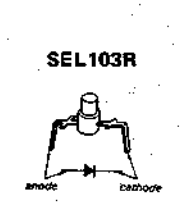
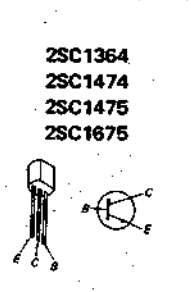
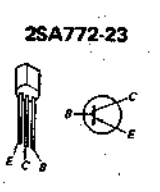
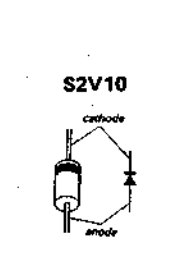
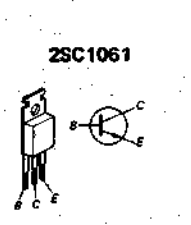
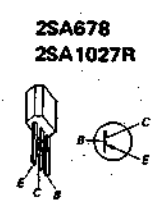
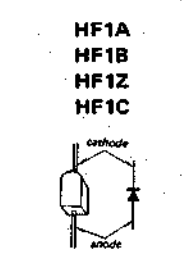
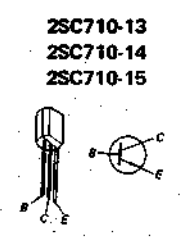
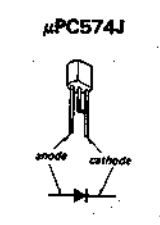
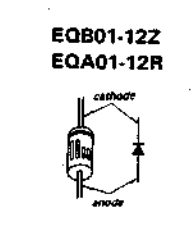
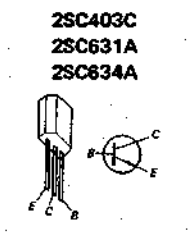
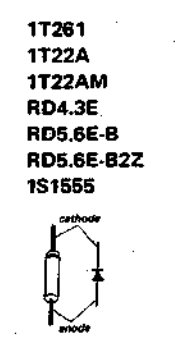
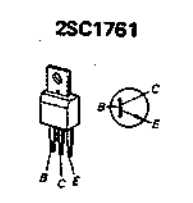
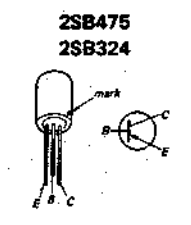
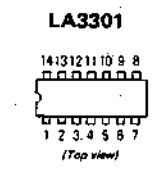
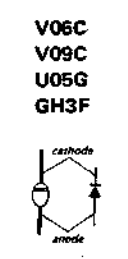
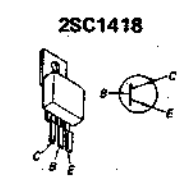
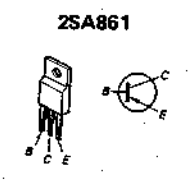
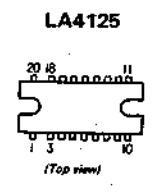


FX-414 FX-414

F G H I J K L M N



4

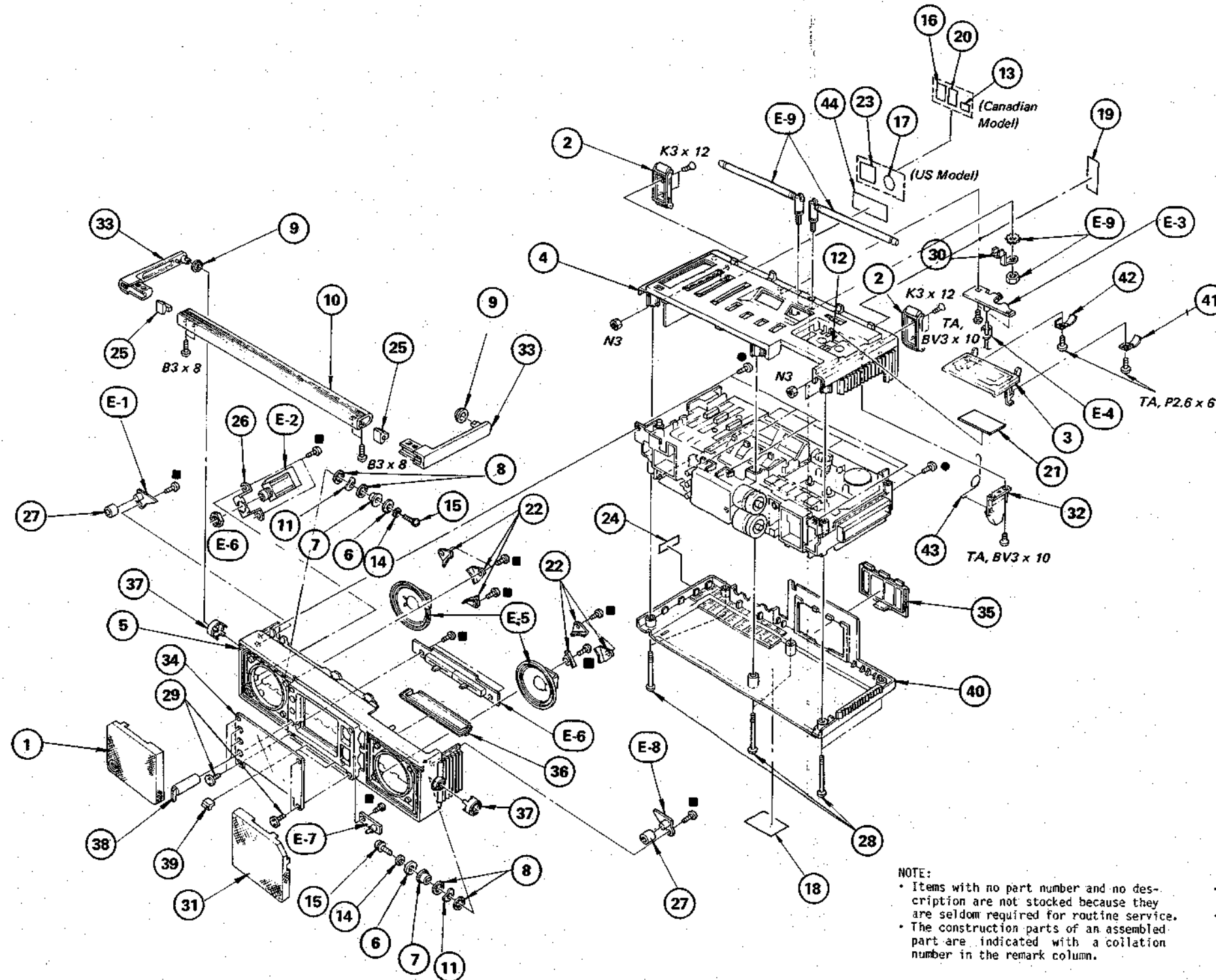


SECTION 5
EXPLODED VIEWS

A B C D E F

(1) CABINET

- : TA, BV3 x 8
- : TA, BV3 x 12
- ▲ : TA, BV4 x 12



No.	Part No.	Description	Remark
1	X-4025-102-0	NET (LEFT) ASSY, SPEAKER	
2	X-4025-103-0	FOOT ASSY	
3	X-4025-109-0	HOLDER ASSY, CASSETTE	41,42
4	X-4025-121-1	CABINET ASSY, UPPER	
5	X-4025-122-0	MASK ASSY, FRONT	1,31
6	3-422-017-00	PLATE, SLIDE	
7	3-548-340-00	COLLAR, HANDLE	
8	3-548-341-00	WASHER	
9	3-548-911-00	COLLAR (A), HANDLE	
10	3-548-954-61	HANDLE, CARRYING	
11	3-548-959-00	WASHER	
12	3-556-221-00	PLATE, ORNAMENTAL	
13	3-701-043-00	LABEL, CSA VIDEO (CANADIAN MODEL)	
14	3-701-447-01	WASHER	
15	3-701-809-31	SCREW, TERMINAL	
16	3-701-829-01	LABEL, X-RAY (CANADIAN MODEL)	
17	3-701-915-01	LABEL, UL (US MODEL)	
18	3-703-043-21	LABEL, CAUTION; MAIN (CANADIAN MODEL)	
19	3-703-053-00	LABEL, CAUTION; SCREW (CANADIAN MODEL)	
18	3-703-238-00	LABEL, MAIN CAUTION (US MODEL)	
20	3-703-281-00	LABEL, DOC (A) (CANADIAN MODEL)	
21	3-793-828-11	QUESTIONNAIRE	
22	◆3-832-934-01	HOLDER, SPEAKER	
23	◆4-017-439-00	LABEL, X-RAY (US MODEL)	
24	4-019-105-11	LABEL, POWER; DC IN 12V	
25	4-025-104-00	GUARD, HANDLE	
26	◆4-025-105-00	BRACKET, HEADPHONE JACK	
27	4-025-107-00	HOLDER, MICROPHONE	
28	4-025-110-00	SCREW, TA. +P4X80	
29	4-025-111-00	SCREW, PROTECTOR	
30	◆4-025-118-00	LEAD, ANTENNA	
31	4-025-126-00	NET (RIGHT), SPEAKER	
32	4-025-133-00	HOLDER, SPRING	
33	4-025-134-00	PLATE, SIDE, HANDLE	
34	4-025-135-31	PROTECTOR	
35	4-025-136-00	LID, BATTERY CASE	
36	4-025-137-11	COVER	
37	4-025-141-00	RING, ORNAMENTAL; HANDLE	
38	4-025-142-00	KNOB, FUNCTION	
39	4-025-143-00	KNOB, CONTROL	
40	4-025-157-21	CABINET, LOWER	
41	4-025-163-00	SPRING (RIGHT)	
42	4-025-164-00	SPRING (LEFT)	
43	4-025-172-00	SPRING	
44	◆4-025-906-00	LABEL, MODEL NUMBER (US MODEL)	
	◆4-025-907-00	LABEL, MODEL NUMBER (CANADIAN MODEL)	

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.

• As to the part numbered with E-, refer to the 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.

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

A

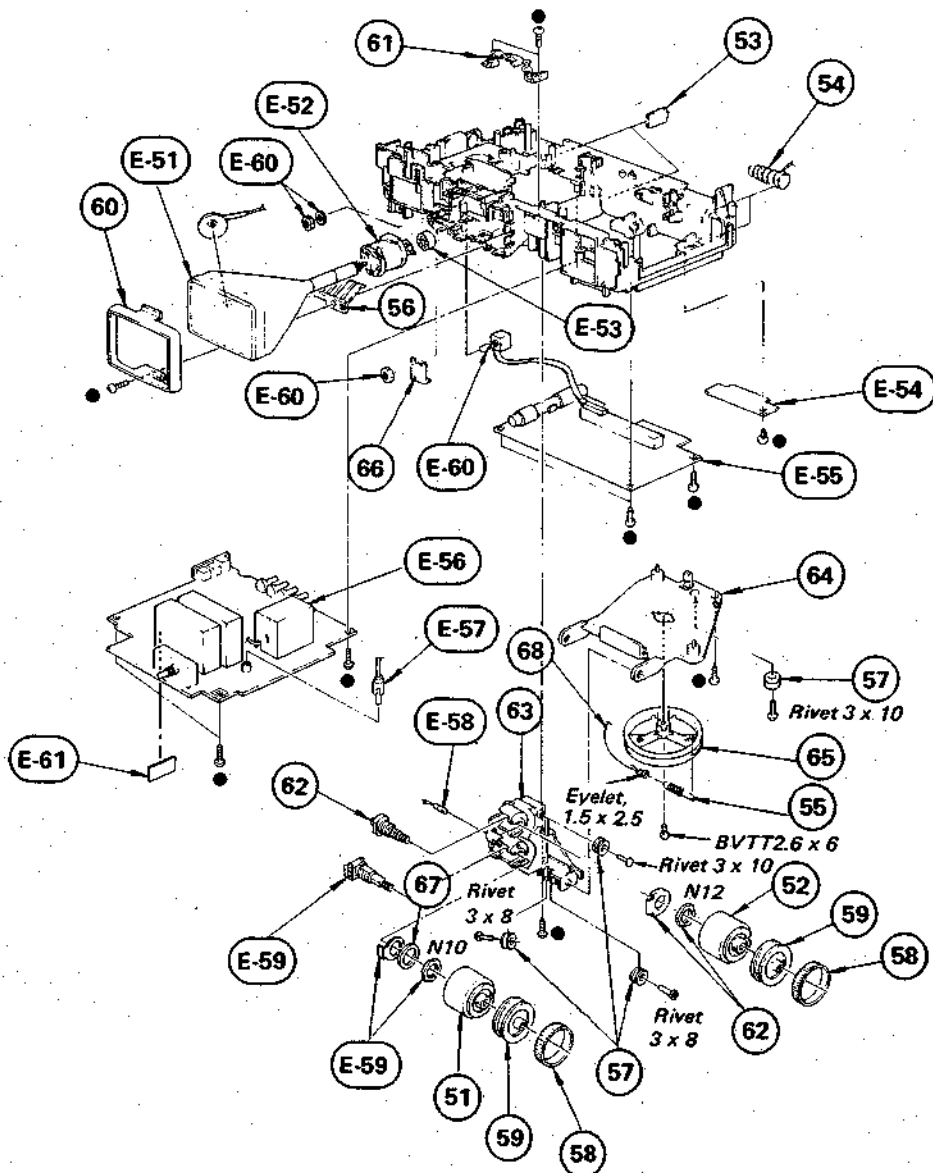
B

C

D

(2) PICTURE TUBE

• : TA, BV3 x 12



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4025-119-0	DRUM ASSY, TV INDICATION		60	▲:4-025-129-00	HOLDER (FRONT), PICTURE TUBE	
52	X-4025-120-0	DRUM ASSY, RADIO INDICATION		61	▲:4-025-130-00	HOLDER (REAR), PICTURE TUBE	
53	3-538-133-00	PLATE, BATTERY CONTACT		62	4-025-147-00	SHAFT, VERNIER	
54	3-701-850-00	SPRING		63	▲:4-025-148-00	SHAFT (A), RADIO	
55	3-844-675-00	SPRING		64	▲:4-025-149-00	SHAFT (B), RADIO	
56	4-025-101-00	SPRING		65	4-025-150-00	DRUM, DIAL	
57	▲:4-025-122-00	PULLEY, 8MM DIA.		66	▲:4-025-166-00	COVER, SWITCH	
58	4-025-123-00	RING, TUNING KNOB		67	▲:4-025-184-00	WASHER, 10MM DIA.	
59	4-025-128-00	KNOB, TUNING		68	9-911-825-32	DIAL CORD, 0.3MM DIA.	

NOTE:

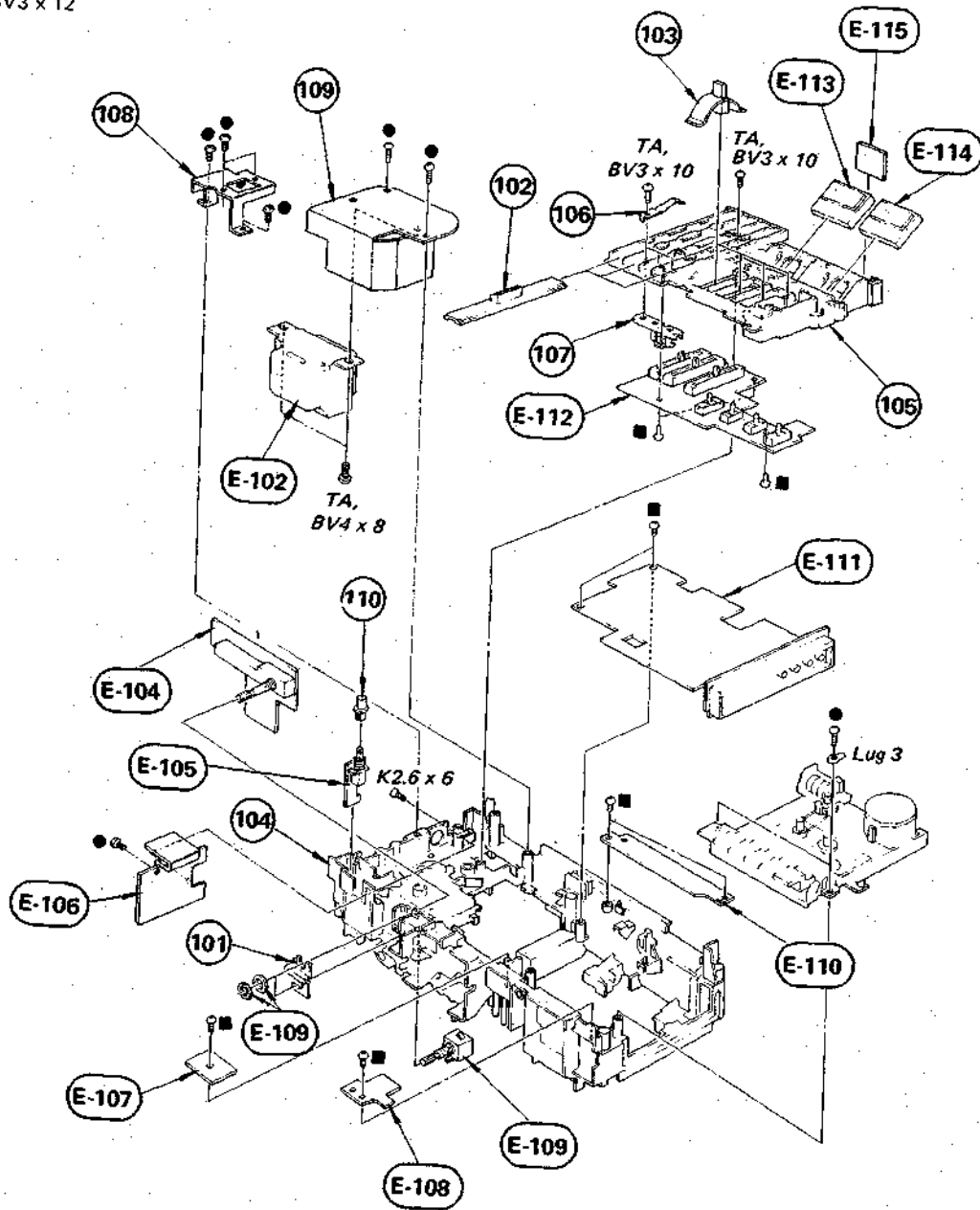
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the 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.

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

(3) CHASSIS

- : TA, BV3 x 8
- : TA, BV3 x 12



No.	Part No.	Description
101	4-025-124-00	PIECE, CONNECTION
102	4-025-140-00	KNOB, SLIDE
103	4-025-152-00	KNOB, SELECTOR
104	▲:4-025-155-00	CHASSIS, MAIN
105	▲:4-025-159-00	CHASSIS, CONTROL

Remark	No.	Part No.	Description	Remark
	106	▲:4-025-183-00	PLATE (A), GROUND; SLIDE KNOB	
	107	▲:4-025-185-00	PLATE (B), GROUND; SLIDE KNOB	
	108	▲:4-025-189-00	BRACKET, SWITCH	
	109	▲:4-025-193-00	BRACKET, PT	
	110	4-333-704-00	BUTTON, CONTROL	

NOTE:

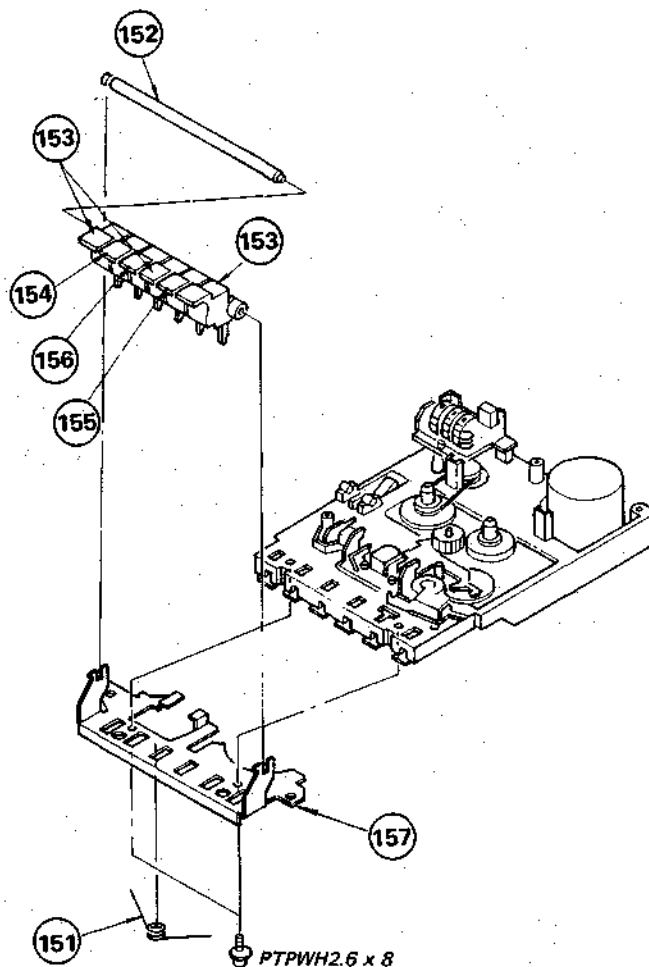
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the 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.

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

(4) MECHANICAL BUTTON

1
2
3



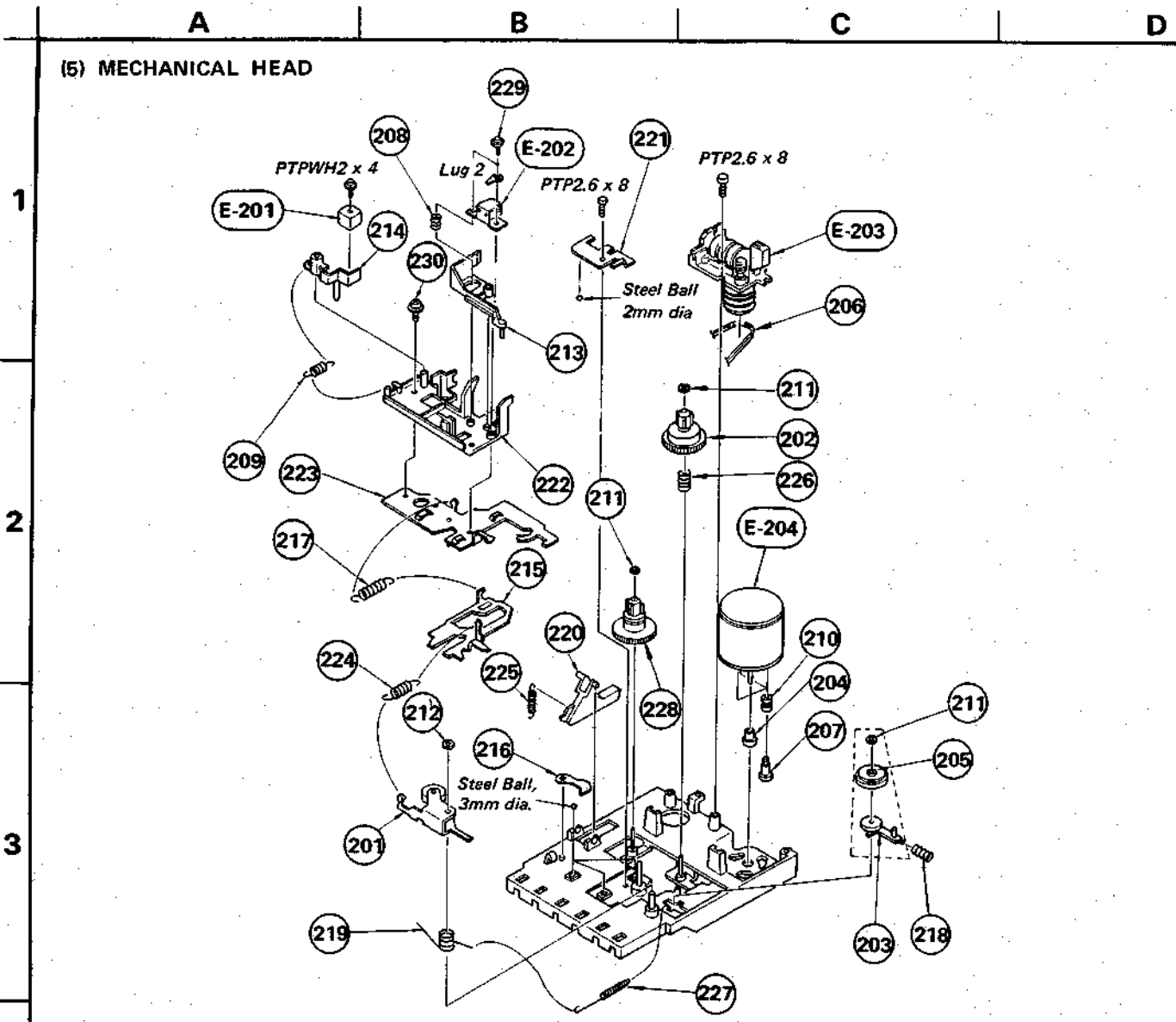
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
151	3-561-844-00	SPRING		154	3-561-896-01	BUTTON, ■ EJECT	
152	▲:3-561-875-00	SHAFT, BUTTON		155	3-561-896-11	BUTTON, REC	
153	3-561-895-00	BUTTON, ◀◀ REVIEW, CUE ▶▶ PAUSE		156	3-561-896-21	BUTTON, ▶ FWD	
				157	▲:3-564-314-11	RETAINER (S), LEVER	

NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the 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.

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



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
201	A-3110-004-A	PINCH ROLLER ASSY		214	3-561-817-00	LEVER, ERASE HEAD	
202	A-3130-008-A	REEL TABLE ASSY, TAKE-UP		215	▲3-561-824-00	LEVER, RECORD/PLAYBACK	
203	▲A-3136-014-A	IDLER COMPLETE ASSY, FORWARD	205,211	216	▲3-561-825-00	LEVER, ERASE	
204	X-3558-616-1	PULLEY, MOTOR		217	3-561-841-00	SPRING	
	X-3558-616-2	PULLEY, MOTOR		218	3-561-843-00	SPRING	
	X-3558-616-3	PULLEY, MOTOR		219	3-561-846-00	SPRING	
	X-3558-616-4	PULLEY, MOTOR		220	3-561-847-00	LEVER, EJECT	
	X-3558-616-5	PULLEY, MOTOR		221	3-561-852-00	SPRING	
205	X-3561-801-0	IDLER ASSY, FORWARD		222	3-561-858-00	BRACKET, HEAD	
206	3-480-136-00	BELT (B)		223	3-561-859-00	BASE (L), HEAD	
207	3-533-254-11	SCREW, MOTOR		224	3-561-883-00	SPRING	
208	3-539-237-00	SPRING		225	3-561-884-00	SPRING	
209	3-539-259-00	SPRING		226	3-561-886-00	SPRING	
210	3-548-886-00	CUSHION (B), MOTOR		227	3-561-887-00	SPRING	
211	3-558-708-01	WASHER, STOPPER		228	3-561-893-00	REEL TABLE (S), SUPPLY	
212	3-558-708-21	WASHER, STOPPER		229	3-701-465-00	SCREW WITH WASHER	
213	3-561-802-00	TENSION PULLEY		230	3-701-466-00	SCREW, SELF-TAPPING; WITH WASHER	

NOTE:

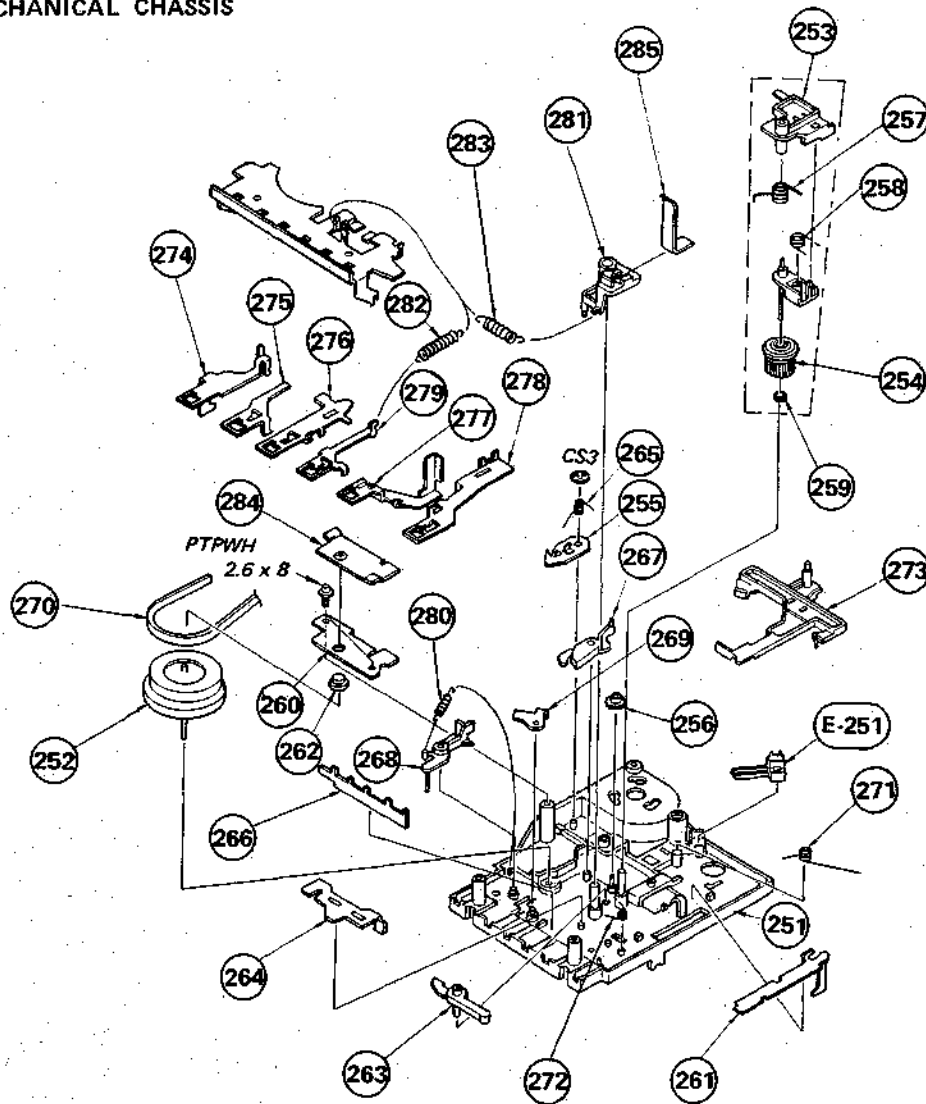
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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

(6) MECHANICAL CHASSIS

1
2
3



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
251	▲:A-3102-017-A	CHASSIS SUB ASSY, MECHANISM		268	3-561-845-00	LEVER, RELEASE	
252	A-3109-009-A	FLYWHEEL ASSY		269	▲:3-561-849-00	LEVER (A), RECORD	
253	A-3136-015-A	IDLER COMPLETE ASSY, FAST FORWARD/REWIND	254, 257, 258, 259	270	3-561-850-00	BELT, CAPSTAN	
254	X-3558-607-0	IDLER ASSY, FAST FORWARD/REWIND		271	3-561-851-00	SPRING	
255	3-558-612-00	PLATE, LOCK; PAUSE		272	3-561-853-00	SPRING	
256	3-558-620-00	GEAR, REWIND		273	3-561-857-00	LEVER, BRAKE	
257	3-558-651-00	SPRING		274	▲:3-561-869-00	LEVER (C), PAUSE BUTTON	
258	3-558-652-00	SPRING		275	▲:3-561-870-00	LEVER (C), REC BUTTON	
259	3-558-708-01	WASHER, STOPPER		276	▲:3-561-871-00	LEVER (C), FF BUTTON	
260	3-561-801-00	RETAINER, THRUST		277	▲:3-561-872-00	LEVER (C), STOP BUTTON	
261	▲:3-561-805-00	LEVER, RECORDING PREVENTION		278	▲:3-561-873-00	LEVER (C), REW BUTTON	
262	3-561-806-00	RETAINER, THRUST		279	▲:3-561-874-00	LEVER (C), FWD BUTTON	
263	3-561-818-00	LEVER, REVIEW		280	3-561-884-00	SPRING	
264	▲:3-561-831-00	LEVER (B), RECORD		281	▲:3-561-894-00	LEVER (E), RECORD	
265	3-561-832-00	SPRING		282	3-561-897-00	SPRING	
266	▲:3-561-833-00	PLATE, LOCK; BUTTON		283	3-561-898-00	SPRING	
267	3-561-839-00	LEVER, FAST FORWARD		284	▲:4-025-119-00	INSULATOR, REC	
				285	4-025-179-00	SPRING	

NOTE:

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

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

V H6 H7 H3
HJ L G H4

SECTION 6
ELECTRICAL PARTS LIST

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
▲:1-601-032-00		<u>V BOARD</u>	E-3			<u>DIODE</u>	
▲:4-025-118-00		LEAD, ANTENNA		D6	8-719-301-03	DIODE SEL103R	
		<u>JACK</u>		*****			
J101	1-507-569-00	JACK, EXT ANT			1-602-622-00	<u>G BOARD</u>	E-106
		<u>COIL</u>		▲:4-025-197-00		HEAT SINK	
L101	1-407-840-11	COIL, CORE	4.7UH			<u>CAPACITOR</u>	
		<u>PLUG</u>		C651	1-101-003-00	CERAMIC 0.0047MF	50V
PJ101	▲:1-526-575-00	SOCKET, PLUG		C652	1-101-003-00	CERAMIC 0.0047MF	50V
*****				C653	1-101-003-00	CERAMIC 0.0047MF	50V
▲:1-601-045-00		<u>H6 BOARD</u>	E-1	C654	1-101-003-00	CERAMIC 0.0047MF	50V
		<u>MICROPHONE</u>		C655	1-123-337-00	ELECT 1000MF	20% 25V
MIC	8-814-198-91	MICROPHONE (C-1004Q)		C656	1-123-319-00	ELECT 47MF	20% 16V
*****						<u>DIODE</u>	
▲:1-601-046-00		<u>H7 BOARD</u>	E-8	D651	=>8-719-900-93	DIODE V09C	
		<u>MICROPHONE</u>		D652	=>8-719-900-93	DIODE V09C	
MIC	8-814-198-91	MICROPHONE (C-1004Q)		D653	=>8-719-900-93	DIODE V09C	
*****				D654	=>8-719-900-93	DIODE V09C	
▲:1-601-042-00		<u>H3 BOARD</u>	E-6	D655	▲:8-719-936-12	DIODE EQA01-12R	
		<u>VARIABLE RESISTOR</u>				<u>FUSE</u>	
RV781	1-226-630-00	RES, VAR, SLIDE 20K-A/20K-A		F651	▲:1-532-262-XX	FUSE 0.5A	
RV782	1-226-634-00	RES, VAR, SLIDE 100K		F652	▲:1-532-402-XX	FUSE 1.25A	
*****						<u>CONNECTOR</u>	
▲:1-601-033-00		<u>HJ BOARD</u>	E-2	Q651	▲:1-561-052-31	2P CONNECTOR, POWER	
		<u>JACK</u>				<u>TRANSISTOR</u>	
J951	1-507-648-00	JACK		Q651	=>8-729-316-12	TRANSISTOR 2SC1061	
		<u>CONNECTOR</u>		Q652	=>8-729-663-47	TRANSISTOR 2SC1364	
P951	▲:1-508-845-00	PIN, CONNECTOR 6P				<u>RESISTOR</u>	
		<u>RESISTOR</u>		R651	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R951	1-246-451-00	CARBON 120 1/4 W 5%		R652	1-202-723-00	SOLID 2.2M 1/2 W 10%	
R952	1-246-451-00	CARBON 120 1/4 W 5%		*****			
*****				▲:1-601-043-00		<u>H4 BOARD</u>	E-54
▲:1-601-034-00		<u>L BOARD</u>	E-7			<u>CAPACITOR</u>	
				C371	1-123-328-00	ELECT 4.7MF	20% 25V
				C372	1-102-973-00	CERAMIC 100PF	5% 50V
				C373	1-123-328-00	ELECT 4.7MF	20% 25V
				C374	1-123-328-00	ELECT 4.7MF	20% 25V
*****						<u>TRANSISTOR</u>	
				Q371	=>8-729-665-47	TRANSISTOR 2SC1362	
				Q372	=>8-729-663-47	TRANSISTOR 2SC1364	
				Q373	=>8-729-663-47	TRANSISTOR 2SC1364	

NOTE:

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μH



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q374	=>8-729-663-47	TRANSISTOR 2SC1364		C337	1-123-316-00	ELECT 10MF	20% 16V
<u>RESISTOR</u>				C338	1-123-351-00	ELECT 0.47MF	20% 50V
R371	1-246-497-00	CARBON 10K 1/4 W 5%		C339	1-123-323-00	ELECT 470MF	20% 16V
R372	1-246-509-00	CARBON 33K 1/4 W 5%		C341	1-108-624-00	MYLAR 0.0068MF	10% 100V
R373	1-246-537-00	CARBON 470K 1/4 W 5%		C342	1-123-351-00	ELECT 0.47MF	20% 50V
R374	1-246-521-00	CARBON 100K 1/4 W 5%		C343	1-123-351-00	ELECT 0.47MF	20% 50V
R375	1-246-443-00	CARBON 5K 1/4 W 5%		C344	1-123-318-00	ELECT 33MF	20% 16V
R376	1-246-497-00	CARBON 10K 1/4 W 5%		C345	1-161-379-00	CERAMIC 10000PF	20% 25V
R377	1-246-515-00	CARBON 56K 1/4 W 5%		C346	1-102-114-00	CERAMIC 470PF	10% 50V
R378	1-246-515-00	CARBON 56K 1/4 W 5%		C347	1-101-003-00	CERAMIC 0.0047MF	50V

▲:A-1266-008-A Y BOARD, COMPLETE				E-111			
1-507-662-00 JACK, 8P							
▲:3-538-856-01 PIN, LEAD							
<u>CAPACITOR</u>							
C301	1-108-620-00	MYLAR 0.0033MF	10% 100V	C401	1-108-620-00	MYLAR 0.0033MF	10% 100V
C302	1-108-616-11	MYLAR 0.0015MF	10% 100V	C402	1-108-616-11	MYLAR 0.0015MF	10% 100V
C303	1-108-618-11	MYLAR 0.0022MF	10% 100V	C403	1-108-618-11	MYLAR 0.0022MF	10% 100V
C304	1-123-351-00	ELECT 0.47MF	20% 50V	C404	1-123-351-00	ELECT 0.47MF	20% 50V
C305	1-102-973-00	CERAMIC 100PF	5% 50V	C405	1-102-973-00	CERAMIC 100PF	5% 50V
C306	1-123-305-00	ELECT 33MF	20% 10V	C406	1-123-305-00	ELECT 33MF	20% 10V
C307	1-123-316-00	ELECT 10MF	20% 16V	C407	1-123-316-00	ELECT 10MF	20% 16V
C308	1-123-352-00	ELECT 1MF	20% 50V	C408	1-123-352-00	ELECT 1MF	20% 50V
C309	1-123-351-00	ELECT 0.47MF	20% 50V	C409	1-123-351-00	ELECT 0.47MF	20% 50V
C310	1-108-810-11	MYLAR 0.033MF	5% 50V	C410	1-108-810-11	MYLAR 0.033MF	5% 50V
C311	1-123-351-00	ELECT 0.47MF	20% 50V	C411	1-123-351-00	ELECT 0.47MF	20% 50V
C313	1-123-307-00	ELECT 100MF	20% 10V	C413	1-123-307-00	ELECT 100MF	20% 10V
C314	1-108-626-11	MYLAR 0.01MF	10% 100V	C414	1-108-626-11	MYLAR 0.01MF	10% 100V
C315	1-123-307-00	ELECT 100MF	20% 10V	C415	1-123-307-00	ELECT 100MF	20% 10V
C316	1-123-351-00	ELECT 0.47MF	20% 50V	C416	1-123-351-00	ELECT 0.47MF	20% 50V
C317	1-102-973-00	CERAMIC 100PF	5% 50V	C417	1-102-973-00	CERAMIC 100PF	5% 50V
C318	1-102-973-00	CERAMIC 100PF	5% 50V	C418	1-102-973-00	CERAMIC 100PF	5% 50V
C319	1-123-316-00	ELECT 10MF	20% 16V	C419	1-123-316-00	ELECT 10MF	20% 16V
C320	1-123-316-00	ELECT 10MF	20% 16V	C420	1-123-316-00	ELECT 10MF	20% 16V
C321	1-123-295-00	ELECT 100MF	20% 6.3V	C421	1-123-295-00	ELECT 100MF	20% 6.3V
C322	1-102-978-00	CERAMIC 220PF	5% 50V	C422	1-102-978-00	CERAMIC 220PF	5% 50V
C323	1-123-316-00	ELECT 10MF	20% 16V	C423	1-123-316-00	ELECT 10MF	20% 16V
C324	1-123-351-00	ELECT 0.47MF	20% 50V	C424	1-123-351-00	ELECT 0.47MF	20% 50V
C325	1-123-316-00	ELECT 10MF	20% 16V	C425	1-123-316-00	ELECT 10MF	20% 16V
C326	1-123-316-00	ELECT 10MF	20% 16V	C426	1-123-316-00	ELECT 10MF	20% 16V
C327	1-123-352-00	ELECT 1MF	20% 50V	C427	1-123-352-00	ELECT 1MF	20% 50V
C328	1-108-617-11	MYLAR 0.0018MF	10% 100V	C428	1-108-617-11	MYLAR 0.0018MF	10% 100V
C329	1-123-586-00	ELECT 0.1MF	20% 50V	C429	1-123-586-00	ELECT 0.1MF	20% 50V
C330	1-123-351-00	ELECT 0.47MF	20% 50V	C430	1-123-351-00	ELECT 0.47MF	20% 50V
C331	1-123-316-00	ELECT 10MF	20% 16V	C431	1-123-316-00	ELECT 10MF	20% 16V
C332	1-108-845-00	MYLAR 0.047MF	10% 50V	C432	1-123-316-00	ELECT 10MF	20% 16V
C333	1-123-317-00	ELECT 22MF	20% 16V	C437	1-123-316-00	ELECT 10MF	20% 16V
C334	1-108-845-00	MYLAR 0.047MF	10% 50V	C438	1-123-351-00	ELECT 0.47MF	20% 50V
C335	1-123-316-00	ELECT 10MF	20% 16V	C439	1-123-323-00	ELECT 470MF	20% 16V
C336	1-123-318-00	ELECT 33MF	20% 16V	C441	1-108-624-00	MYLAR 0.0068MF	10% 100V
C442	1-123-351-00	ELECT 0.47MF	20% 50V	C443	1-123-351-00	ELECT 0.47MF	20% 50V
C443	1-123-351-00	ELECT 0.47MF	20% 50V	C445	1-161-379-00	CERAMIC 10000PF	20% 25V
C444	1-102-114-00	CERAMIC 470PF	10% 50V	C446	1-102-114-00	CERAMIC 470PF	10% 50V
C447	1-101-003-00	CERAMIC 0.0047MF	50V	C447	1-101-003-00	CERAMIC 0.0047MF	50V
<u>OSCILLATOR</u>							
CP301	1-464-007-00	BIAS OSCILLATOR UNIT					

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CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>DIODE</u>							
D301	8-719-815-55	DIODE 1S1555		Q409	=>8-729-663-47	TRANSISTOR 2SC1364	
D302	8-719-815-55	DIODE 1S1555		Q410	8-729-663-47	TRANSISTOR 2SC1364	
D303	8-719-815-55	DIODE 1S1555		Q411	=>8-729-663-47	TRANSISTOR 2SC1364	
D304	8-719-815-55	DIODE 1S1555		Q412	=>8-729-663-47	TRANSISTOR 2SC1364	
D305	8-719-815-55	DIODE 1S1555		<u>RESISTOR</u>			
D306	8-719-815-55	DIODE 1S1555		R302	1-246-509-00	CARBON 33K 1/4 W 5%	
D307	8-719-815-55	DIODE 1S1555		R303	1-246-481-00	CARBON 2.2K 1/4 W 5%	
D308	8-719-815-55	DIODE 1S1555		R304	1-246-505-00	CARBON 22K 1/4 W 5%	
D309	8-719-815-55	DIODE 1S1555		R305	1-246-453-00	CARBON 150 1/4 W 5%	
D401	8-719-815-55	DIODE 1S1555		R306	1-246-521-00	CARBON 100K 1/4 W 5%	
D402	8-719-815-55	DIODE 1S1555		R307	1-246-509-00	CARBON 33K 1/4 W 5%	
D403	8-719-815-55	DIODE 1S1555		R308	1-246-487-00	CARBON 3.9K 1/4 W 5%	
D404	8-719-815-55	DIODE 1S1555		R309	1-246-473-00	CARBON 1K 1/4 W 5%	
D405	8-719-815-55	DIODE 1S1555		R310	1-246-487-00	CARBON 3.9K 1/4 W 5%	
D406	8-719-815-55	DIODE 1S1555		R311	1-246-521-00	CARBON 100K 1/4 W 5%	
D407	8-719-815-55	DIODE 1S1555		R312	1-246-489-00	CARBON 4.7K 1/4 W 5%	
D408	8-719-815-55	DIODE 1S1555		R313	1-246-543-00	CARBON 820K 1/4 W 5%	
D409	8-719-815-55	DIODE 1S1555		R314	1-246-491-00	CARBON 5.6K 1/4 W 5%	
<u>COIL</u>				R315	1-246-521-00	CARBON 100K 1/4 W 5%	
L301	1-407-503-00	MICRO INDUCTOR	8.2MMH	R316	1-246-501-00	CARBON 15K 1/4 W 5%	
L302	1-425-639-00	TRANSFORMER		R317	1-246-511-00	CARBON 39K 1/4 W 5%	
L401	1-407-503-00	MICRO INDUCTOR	8.2MMH	R318	1-246-473-00	CARBON 1K 1/4 W 5%	
<u>CONNECTOR</u>				R319	1-246-479-00	CARBON 1.8K 1/4 W 5%	
MJ701	▲:1-555-394-00	CONNECTOR, 12P		R320	1-246-449-00	CARBON 100 1/4 W 5%	
MJ752	▲:1-551-729-00	CONNECTOR, 4P		R321	1-246-493-00	CARBON 6.8K 1/4 W 5%	
MJ753	▲:1-551-729-00	CONNECTOR, 4P		R322	1-246-461-00	CARBON 330 1/4 W 5%	
MJ755	▲:1-551-973-00	CONNECTOR, 6P		R323	1-246-501-00	CARBON 15K 1/4 W 5%	
MJ756	▲:1-561-048-00	CONNECTOR, 5P		R324	1-246-497-00	CARBON 10K 1/4 W 5%	
<u>TRANSISTOR</u>				R325	1-246-521-00	CARBON 100K 1/4 W 5%	
Q301	=>8-729-665-47	TRANSISTOR 2SC1362		R326	1-246-503-00	CARBON 18K 1/4 W 5%	
Q302	=>8-729-665-47	TRANSISTOR 2SC1362		R327	1-246-437-00	CARBON 33 1/4 W 5%	
Q303	=>8-729-663-47	TRANSISTOR 2SC1364		R328	1-246-521-00	CARBON 100K 1/4 W 5%	
Q304	=>8-729-663-47	TRANSISTOR 2SC1364		R329	1-246-509-00	CARBON 33K 1/4 W 5%	
Q305	=>8-729-663-47	TRANSISTOR 2SC1364		R330	1-246-445-00	CARBON 68 1/4 W 5%	
Q306	=>8-729-663-47	TRANSISTOR 2SC1364		R331	1-246-463-00	CARBON 390 1/4 W 5%	
Q307	=>8-729-663-47	TRANSISTOR 2SC1364		R332	1-246-485-00	CARBON 3.3K 1/4 W 5%	
Q308	=>8-729-663-47	TRANSISTOR 2SC1364		R333	1-246-489-00	CARBON 4.7K 1/4 W 5%	
Q309	=>8-729-663-47	TRANSISTOR 2SC1364		R334	1-246-501-00	CARBON 15K 1/4 W 5%	
Q310	8-729-663-47	TRANSISTOR 2SC1364		R335	1-246-505-00	CARBON 22K 1/4 W 5%	
Q311	=>8-729-663-47	TRANSISTOR 2SC1364		R336	1-246-501-00	CARBON 15K 1/4 W 5%	
Q312	=>8-729-663-47	TRANSISTOR 2SC1364		R337	1-246-513-00	CARBON 47K 1/4 W 5%	
Q401	=>8-729-665-47	TRANSISTOR 2SC1362		R338	1-246-497-00	CARBON 10K 1/4 W 5%	
Q402	=>8-729-665-47	TRANSISTOR 2SC1362		R339	1-246-543-00	CARBON 820K 1/4 W 5%	
Q403	=>8-729-663-47	TRANSISTOR 2SC1364		R340	1-246-473-00	CARBON 1K 1/4 W 5%	
Q404	=>8-729-663-47	TRANSISTOR 2SC1364		R341	1-246-445-00	CARBON 68 1/4 W 5%	
Q405	=>8-729-663-47	TRANSISTOR 2SC1364		R342	1-246-505-00	CARBON 22K 1/4 W 5%	
Q406	=>8-729-663-47	TRANSISTOR 2SC1364		R343	1-246-493-00	CARBON 6.8K 1/4 W 5%	
Q407	=>8-729-663-47	TRANSISTOR 2SC1364		R344	1-246-501-00	CARBON 15K 1/4 W 5%	
Q408	=>8-729-663-47	TRANSISTOR 2SC1364		R346	1-246-501-00	CARBON 15K 1/4 W 5%	
				R347	1-246-521-00	CARBON 100K 1/4 W 5%	
				R348	1-246-497-00	CARBON 10K 1/4 W 5%	
				R349	1-246-509-00	CARBON 33K 1/4 W 5%	

NOTE:

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

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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 : μF, PF : μμF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μH



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R350	1-246-473-00	CARBON 1K	1/4 W 5%	R434	1-246-501-00	CARBON 15K	1/4 W 5%
R351	1-246-545-00	CARBON 1M	1/4 W 5%	R435	1-246-505-00	CARBON 22K	1/4 W 5%
R352	1-246-449-00	CARBON 100	1/4 W 5%	R436	1-246-501-00	CARBON 15K	1/4 W 5%
R353	1-246-525-00	CARBON 150K	1/4 W 5%	R437	1-246-513-00	CARBON 47K	1/4 W 5%
R354	1-246-473-00	CARBON 1K	1/4 W 5%	R438	1-246-497-00	CARBON 10K	1/4 W 5%
R355	1-246-497-00	CARBON 10K	1/4 W 5%	R439	1-246-543-00	CARBON 820K	1/4 W 5%
R356	1-246-507-00	CARBON 27K	1/4 W 5%	R440	1-246-473-00	CARBON 1K	1/4 W 5%
R357	1-246-485-00	CARBON 3.3K	1/4 W 5%	R441	1-246-445-00	CARBON 68	1/4 W 5%
R358	1-246-457-00	CARBON 220	1/4 W 5%	R442	1-246-505-00	CARBON 22K	1/4 W 5%
R359	1-246-503-00	CARBON 18K	1/4 W 5%	R443	1-246-493-00	CARBON 6.8K	1/4 W 5%
R360	1-246-503-00	CARBON 18K	1/4 W 5%	R444	1-246-501-00	CARBON 15K	1/4 W 5%
R361	1-246-491-00	CARBON 5.6K	1/4 W 5%	R446	1-246-501-00	CARBON 15K	1/4 W 5%
R362	1-246-543-00	CARBON 820K	1/4 W 5%	R447	1-246-521-00	CARBON 100K	1/4 W 5%
R363	1-246-501-00	CARBON 15K	1/4 W 5%	R448	1-246-497-00	CARBON 10K	1/4 W 5%
R364	1-246-521-00	CARBON 100K	1/4 W 5%	R450	1-246-473-00	CARBON 1K	1/4 W 5%
R365	1-246-537-00	CARBON 470K	1/4 W 5%	R456	1-246-507-00	CARBON 27K	1/4 W 5%
R366	1-246-517-00	CARBON 68K	1/4 W 5%	R459	1-246-503-00	CARBON 18K	1/4 W 5%
R367	1-246-491-00	CARBON 5.6K	1/4 W 5%	R460	1-246-503-00	CARBON 18K	1/4 W 5%
R368	1-246-507-00	CARBON 27K	1/4 W 5%	R461	1-246-491-00	CARBON 5.6K	1/4 W 5%
R369	1-246-483-00	CARBON 2.7K	1/4 W 5%	R462	1-246-543-00	CARBON 820K	1/4 W 5%
R370	1-246-491-00	CARBON 5.6K	1/4 W 5%	R463	1-246-501-00	CARBON 15K	1/4 W 5%
R371	1-246-449-00	CARBON 100	1/4 W 5%	R464	1-246-521-00	CARBON 100K	1/4 W 5%
R402	1-246-509-00	CARBON 33K	1/4 W 5%	R465	1-246-537-00	CARBON 470K	1/4 W 5%
R403	1-246-481-00	CARBON 2.2K	1/4 W 5%	R466	1-246-517-00	CARBON 68K	1/4 W 5%
R404	1-246-505-00	CARBON 22K	1/4 W 5%	R467	1-246-491-00	CARBON 5.6K	1/4 W 5%
R405	1-246-453-00	CARBON 150	1/4 W 5%	R471	1-246-449-00	CARBON 100	1/4 W 5%
R406	1-246-521-00	CARBON 100K	1/4 W 5%				
R407	1-246-509-00	CARBON 33K	1/4 W 5%				
R408	1-246-487-00	CARBON 3.9K	1/4 W 5%				
R409	1-246-473-00	CARBON 1K	1/4 W 5%				
R410	1-246-487-00	CARBON 3.9K	1/4 W 5%				
R411	1-246-521-00	CARBON 100K	1/4 W 5%				
R412	1-246-489-00	CARBON 4.7K	1/4 W 5%				
R413	1-246-543-00	CARBON 820K	1/4 W 5%				
R414	1-246-491-00	CARBON 5.6K	1/4 W 5%				
R415	1-246-521-00	CARBON 100K	1/4 W 5%				
R416	1-246-501-00	CARBON 15K	1/4 W 5%				
R417	1-246-511-00	CARBON 39K	1/4 W 5%				
R418	1-246-473-00	CARBON 1K	1/4 W 5%				
R419	1-246-479-00	CARBON 1.8K	1/4 W 5%				
R420	1-246-449-00	CARBON 100	1/4 W 5%				
R421	1-246-493-00	CARBON 6.8K	1/4 W 5%				
R422	1-246-461-00	CARBON 330	1/4 W 5%				
R424	1-246-497-00	CARBON 10K	1/4 W 5%				
R425	1-246-521-00	CARBON 100K	1/4 W 5%				
R426	1-246-503-00	CARBON 18K	1/4 W 5%				
R427	1-246-437-00	CARBON 33	1/4 W 5%				
R428	1-246-521-00	CARBON 100K	1/4 W 5%				
R429	1-246-509-00	CARBON 33K	1/4 W 5%				
R430	1-246-445-00	CARBON 68	1/4 W 5%				
R431	1-246-463-00	CARBON 390	1/4 W 5%				
R432	1-246-485-00	CARBON 3.3K	1/4 W 5%				
R433	1-246-489-00	CARBON 4.7K	1/4 W 5%				

VARIABLE RESISTOR

RV301	1-226-058-00	RES, ADJ, CARBON 47K
RV302	1-222-518-12	RES, ADJ, CARBON 4.7K
RV401	1-226-058-00	RES, ADJ, CARBON 47K
RV402	1-222-518-12	RES, ADJ, CARBON 4.7K
RV404	1-224-222-12	RES, ADJ, CARBON 100K

SWITCH

S301	1-552-579-00	SWITCH, SLIDE; REC/P8.
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•:1-601-036-00 Z BOARD E-110

•:4-025-180-00 HEAT SINK, Z BOARD

CAPACITOR

C901	1-123-319-00	ELECT 47MF	20%	16V
C902	1-123-309-00	ELECT 330MF	20%	10V
C903	1-123-317-00	ELECT 22MF	20%	16V
C904	1-123-308-00	ELECT 220MF	20%	10V
C905	1-123-316-00	ELECT 10MF	20%	16V
C906	1-123-319-00	ELECT 47MF	20%	16V
C907	1-123-319-00	ELECT 47MF	20%	16V
C908	1-123-322-00	ELECT 330MF	20%	16V
C909	1-123-307-00	ELECT 100MF	20%	10V

NOTE:

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

->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• 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 PF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μ H



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>DIODE</u>				<u>CAPACITOR</u>			
D901	8-719-815-55	DIODE 1S1555		C151	1-101-004-00	CERAMIC 0.01MF	50V
D902	8-719-815-55	DIODE 1S1555		C152	1-101-004-00	CERAMIC 0.01MF	50V
<u>COIL</u>				C201	1-102-941-00	CERAMIC 4PF 50V (US MODEL)	
L902	1-407-184-XX	MICRO INDUCTOR	3.3UH	C201	1-102-947-00	CERAMIC 10PF 50V (CANADIAN MODEL)	
L903	1-407-184-XX	MICRO INDUCTOR	3.3UH	C202	1-101-002-00	CERAMIC 0.0022MF	50V
L904	1-407-189-XX	MICRO INDUCTOR	8.2UH	C203	1-101-002-00	CERAMIC 0.0022MF	50V
<u>TRANSISTOR</u>				C204	1-101-002-00	CERAMIC 0.0022MF	50V
Q901	8-729-663-47	TRANSISTOR 2SC1364		C205	1-101-002-00	CERAMIC 0.0022MF	50V
Q902	=>8-729-424-00	TRANSISTOR 2S8324		C206	1-101-002-00	CERAMIC 0.0022MF	50V
Q903	8-763-113-00	TRANSISTOR 2SC1761		C207	1-101-884-00	CERAMIC 56PF	5% 50V
Q904	8-729-663-47	TRANSISTOR 2SC1364		C208	1-101-002-00	CERAMIC 0.0022MF	50V
<u>RESISTOR</u>				C210	1-101-002-00	CERAMIC 0.0022MF	50V
R901	1-246-479-00	CARBON 1.8K 1/4 W 5%		C211	1-102-971-00	CERAMIC 82PF	5% 50V
R902	1-246-477-00	CARBON 1.5K 1/4 W 5%		C212	1-101-002-00	CERAMIC 0.0022MF	50V
R903	1-246-471-00	CARBON 820 1/4 W 5%		C213	1-102-944-00	CERAMIC 7PF	0.5PF 50V
R904	1-246-471-00	CARBON 820 1/4 W 5%		C214	1-102-971-00	CERAMIC 82PF	5% 50V
R905	1-246-453-00	CARBON 150 1/4 W 5%		C215	1-101-002-00	CERAMIC 0.0022MF	50V
R906	1-246-455-00	CARBON 180 1/4 W 5%		C216	1-102-947-00	CERAMIC 10PF	5% 50V
R907	1-246-457-00	CARBON 220 1/4 W 5%		C217	1-102-947-00	CERAMIC 10PF	5% 50V
R908	1-246-463-00	CARBON 390 1/4 W 5%		C218	1-102-820-00	CERAMIC 330PF	5% 50V
R909	1-246-475-00	CARBON 1.2K 1/4 W 5%		C219	1-108-628-11	MYLAR 0.015MF	10% 100V
R910	1-212-367-00	METAL 3.9 1 W 5% nonflammable		C220	1-123-351-00	ELECT 0.47MF	20% 50V
R911	1-246-475-00	CARBON 1.2K 1/4 W 5%		C221	1-123-316-00	ELECT 10MF	20% 16V
R912	1-246-473-00	CARBON 1K 1/4 W 5%		C222	1-123-316-00	ELECT 10MF	20% 16V
R913	1-246-497-00	CARBON 10K 1/4 W 5%		C223	1-101-004-00	CERAMIC 0.01MF	50V
<u>RESISTOR</u>				C224	1-101-004-00	CERAMIC 0.01MF	50V
RV303	1-222-787-12	RES, ADJ, CARBON 10K		C225	1-123-296-00	ELECT 220MF	20% 6.3V
RV403	1-222-787-12	RES, ADJ, CARBON 10K		C251	1-102-971-00	CERAMIC 82PF	5% 50V
RV901	1-222-516-12	RES, ADJ, CARBON 470		C252	1-108-630-11	MYLAR 0.022MF	10% 100V
RV901	1-222-516-31	RES, ADJ, CARBON 470		C253	1-102-947-00	CERAMIC 10PF	5% 50V
<u>THERMISTOR</u>				C254	1-102-947-00	CERAMIC 10PF	5% 50V
TH901	1-800-194-11	THERMISTOR		C255	1-108-620-00	MYLAR 0.0033MF	10% 100V
*****				C256	1-123-316-00	ELECT 10MF	20% 16V
♣:A-1295-386-A A BOARD, COMPLETE (US MODEL) E-56				C257	1-108-630-11	MYLAR 0.022MF	10% 100V
♣:A-1295-388-A A BOARD, COMPLETE (CANADIAN MODEL)E-56				C258	1-101-006-00	CERAMIC 0.047MF	50V
1-526-148-00 SOCKET, PICTURE TUBE				C259	1-123-306-00	ELECT 47MF	20% 10V
1-533-146-00 HOLDER, FUSE				C260	1-123-328-00	ELECT 4.7MF	20% 25V
♣:4-022-535-00 HEAT SINK, TRANSISTOR				C261	1-101-004-00	CERAMIC 0.01MF	50V
♣:4-023-604-00 CASE, SHIELD (LOWER)				C262	1-101-004-00	CERAMIC 0.01MF	50V
♣:4-023-605-00 CASE, SHIELD (INNER)				C263	1-102-978-00	CERAMIC 220PF	5% 50V
♣:4-023-606-00 CASE, SHIELD (UPPER)				C381	1-123-328-00	ELECT 4.7MF	20% 25V
♣:4-025-102-00 BRACKET, CONNECTION; GROUND				C382	1-123-295-00	ELECT 100MF	20% 6.3V
♣:4-025-103-00 HEAT SINK, IC				C383	1-123-307-00	ELECT 100MF	20% 10V
♣:4-025-115-00 BRACKET, HEAT SINK; IC				C384	1-108-640-11	MYLAR 0.15MF	10% 100V
				C385	1-123-310-00	ELECT 470MF	20% 10V
				C386	1-123-324-00	ELECT 1000MF	20% 16V
				C387	1-102-121-00	CERAMIC 0.0022MF	10% 50V
				C388	1-102-114-00	CERAMIC 470PF	10% 50V
				C389	1-101-002-00	CERAMIC 0.0022MF	50V
				C481	1-123-328-00	ELECT 4.7MF	20% 25V
				C482	1-123-295-00	ELECT 100MF	20% 6.3V

NOTE:

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

♣ =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μF, PF : μμF

RESISTORS
All resistors are in ohms.

COILS
MMH : mH, UH : μH



Ref.No.	Part No.	Description	Remark
C483	1-123-307-00	ELECT 100MF	20% 10V
C484	1-108-640-11	MYLAR 0.15MF	10% 100V
C485	1-123-310-00	ELECT 470MF	20% 10V
C486	1-123-320-00	ELECT 100MF	20% 16V
C487	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C488	1-102-114-00	CERAMIC 470PF	10% 50V
C501	1-123-328-00	ELECT 4.7MF	20% 25V
C502	1-101-002-00	CERAMIC 0.0022MF	50V
C503	1-108-638-00	MYLAR 0.1MF	10% 100V
C504	1-102-973-00	CERAMIC 100PF	5% 50V
C551	1-108-632-11	MYLAR 0.033MF	10% 100V
C552	1-123-352-00	ELECT 1MF	20% 50V
C553	1-108-636-11	MYLAR 0.068MF	10% 100V
C554	1-108-636-11	MYLAR 0.068MF	10% 100V
C555	1-108-628-11	MYLAR 0.015MF	10% 100V
C556	1-108-632-11	MYLAR 0.033MF	10% 100V
C557	1-108-634-11	MYLAR 0.047MF	10% 100V
C558	1-131-199-00	TANTALUM 10MF	10% 16V
C559	1-123-305-00	ELECT 33MF	20% 10V
C560	1-123-305-00	ELECT 33MF	20% 10V
C561	1-123-328-00	ELECT 4.7MF	20% 25V
C563	1-123-299-00	ELECT 1000MF	20% 6.3V
C564	1-123-298-00	ELECT 470MF	20% 6.3V
C601	1-102-116-00	CERAMIC 680PF	10% 50V
C801	1-108-624-00	MYLAR 0.0068MF	10% 100V
C802	1-108-624-00	MYLAR 0.0068MF	10% 100V
C803	1-123-352-00	ELECT 1MF	20% 50V
C804	1-108-628-11	MYLAR 0.015MF	10% 100V
C805	1-123-352-00	ELECT 1MF	20% 50V
C806	1-108-638-00	MYLAR 0.1MF	10% 100V
C807	1-121-392-00	ELECT SINGLE 3.3MF	25V
C808	1-108-632-11	MYLAR 0.033MF	10% 100V
C809	1-108-638-00	MYLAR 0.1MF	10% 100V
C810	1-108-616-11	MYLAR 0.0015MF	10% 100V
C811	1-123-306-00	ELECT 47MF	20% 10V
C812	1-102-978-00	CERAMIC 220PF	5% 50V
C813	1-123-352-00	ELECT 1MF	20% 50V
C814	1-123-299-00	ELECT 1000MF	20% 6.3V
C815	Δ 1-108-624-00	MYLAR 0.0068MF	10% 100V
C816	Δ 1-108-618-61	MYLAR 0.0022MF	10% 100V
	Δ 1-108-620-61	MYLAR 0.0033MF	10% 100V
	Δ 1-108-622-61	MYLAR 0.0047MF	10% 100V
	Δ 1-108-624-61	MYLAR 0.0068MF	10% 100V
	Δ 1-108-625-61	MYLAR 0.0082MF	10% 100V
C817	1-123-296-00	ELECT 220MF	20% 6.3V
C818	Δ 1-108-620-00	MYLAR 0.0033MF	10% 100V
C851	1-123-356-00	ELECT 10MF	20% 50V
C852	1-129-737-00	FILM 0.047MF	20% 630V
FILTER			
CF251	1-527-260-00	CERAMIC FILTER	

Ref.No.	Part No.	Description	Remark
DIODE			
D201	8-719-815-55	DIODE 1S1555	
D202	8-719-143-07	DIODE RD4.3E-B	
D551	8-719-815-55	DIODE 1S1555	
D552	8-719-815-55	DIODE 1S1555	
D553	8-719-815-55	DIODE 1S1555	
D601	Δ 8-719-143-07	DIODE RD4.3E-B	
D602	=>8-719-911-55	DIODE U05G	
D801	8-719-815-55	DIODE 1S1555	
D802	8-719-815-55	DIODE 1S1555	
D803	8-719-815-55	DIODE 1S1555	
D804	=>8-719-305-15	DIODE GH3F	
D851	=>8-719-305-15	DIODE GH3F	
D852	=>8-719-305-15	DIODE GH3F	
D853	8-719-815-55	DIODE 1S1555	
FUSE			
F601	Δ 1-532-578-00	FUSE, 2A	
IC			
IC151	8-759-157-40	IC UPC574J	
IC251	8-759-966-81	IC SN76681N	
IC381	8-759-841-25	IC LA4125	
JACK			
J601	1-507-661-00	JACK, 3P	
COIL			
L201	Δ 1-425-606-00	COIL, AIR-CORE (US MODEL)	
L201	Δ 1-425-974-00	COIL, AIR-CORE (CANADIAN MODEL)	
L202	1-425-609-00	COIL, AIR-CORE	
L204	1-407-692-11	MICRO INDUCTOR	8.2UH
L205	1-409-179-00	COIL	
L206	1-407-708-11	MICRO INDUCTOR	180UH
L207	1-407-708-11	MICRO INDUCTOR	180UH
L210	1-407-178-XX	MICRO INDUCTOR	1UH
L501	1-407-709-00	MICRO INDUCTOR	220UH
L801	1-405-760-00	COIL, OSC	
SEPARATOR			
LC151	1-417-060-00	SEPARATOR, UV	
CONNECTOR			
MJ703	Δ 1-551-976-00	CONNECTOR, 6P	
MJ757	Δ 1-551-988-00	CONNECTOR, 5P	
MJ951	Δ 1-551-974-00	CONNECTOR, 6P	
PLUG			
PJ151	Δ 1-526-575-00	SOCKET, PLUG	

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

MF : μF, PF : μμF

RESISTORS

All resistors are in ohms.

COILS

MMH : mH, UH : μH

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
TRANSISTOR							
Q151	=>8-729-663-47	TRANSISTOR 2SC1364		R220	1-246-483-00	CARBON 2.7K 1/4 W 5%	
Q152	=>8-729-663-47	TRANSISTOR 2SC1364		R221	1-246-477-00	CARBON 1.5K 1/4 W 5%	
Q153	=>8-729-663-47	TRANSISTOR 2SC1364		R222	1-246-449-00	CARBON 100 1/4 W 5%	
Q201	8-729-167-42	TRANSISTOR 2SC1674		R223	1-246-489-00	CARBON 4.7K 1/4 W 5%	
Q202	8-729-167-42	TRANSISTOR 2SC1674		R224	1-246-461-00	CARBON 330 1/4 W 5%	
Q203	8-729-671-14	TRANSISTOR 2SC710		R225	1-246-467-00	CARBON 560 1/4 W 5%	
Q204	8-729-671-14	TRANSISTOR 2SC710		R226	1-246-473-00	CARBON 1K 1/4 W 5%	
Q205	8-729-671-14	TRANSISTOR 2SC710		R227	1-246-487-00	CARBON 3.9K 1/4 W 5%	
Q206	=>8-729-663-47	TRANSISTOR 2SC1364		R228	1-246-455-00	CARBON 180 1/4 W 5%	
Q207	=>8-729-663-47	TRANSISTOR 2SC1364		R229	1-246-525-00	CARBON 150K 1/4 W 5%	
Q208	=>8-729-663-47	TRANSISTOR 2SC1364		R230	1-246-485-00	CARBON 3.3K 1/4 W 5%	
Q251	=>8-729-663-47	TRANSISTOR 2SC1364		R231	1-246-467-00	CARBON 560 1/4 W 5%	
Q381	=>8-729-663-47	TRANSISTOR 2SC1364		R232	1-246-457-00	CARBON 220 1/4 W 5%	
Q382	=>8-729-663-47	TRANSISTOR 2SC1364		R233	1-246-483-00	CARBON 2.7K 1/4 W 5%	
Q481	=>8-729-663-47	TRANSISTOR 2SC1364		R234	1-246-503-00	CARBON 18K 1/4 W 5%	
Q482	=>8-729-663-47	TRANSISTOR 2SC1364		R235	1-246-481-00	CARBON 2.2K 1/4 W 5%	
Q501	8-724-375-01	TRANSISTOR 2SC403C		R236	1-246-471-00	CARBON 820 1/4 W 5%	
Q551	=>8-729-617-77	TRANSISTOR 2SA1027R		R237	1-246-441-00	CARBON 47 1/4 W 5%	
Q552	=>8-729-663-47	TRANSISTOR 2SC1364		R238	1-213-124-00	METAL 27 I W 5%	nonflammable
Q553	=>8-729-663-47	TRANSISTOR 2SC1364		R251	1-246-469-00	CARBON 680 1/4 W 5%	
Q554	8-760-335-10	TRANSISTOR 2SC1474		R252	1-246-501-00	CARBON 15K 1/4 W 5%	
Q555	8-760-523-10	TRANSISTOR 2SA772-23		R253	1-246-499-00	CARBON 12K 1/4 W 5%	
Q601	△ 8-763-213-00	TRANSISTOR 2SA861		R254	1-246-497-00	CARBON 10K 1/4 W 5%	
Q602	△ =>8-729-663-47	TRANSISTOR 2SC1364		R255	1-246-489-00	CARBON 4.7K 1/4 W 5%	
Q801	=>8-729-663-47	TRANSISTOR 2SC1364		R256	1-246-497-00	CARBON 10K 1/4 W 5%	
Q802	=>8-729-663-47	TRANSISTOR 2SC1364		R257	1-246-493-00	CARBON 6.8K 1/4 W 5%	
Q803	8-760-413-10	TRANSISTOR 2SC1475		R258	1-246-475-00	CARBON 1.2K 1/4 W 5%	
				R259	1-246-473-00	CARBON 1K 1/4 W 5%	
				R381	1-246-493-00	CARBON 6.8K 1/4 W 5%	
				R382	1-246-489-00	CARBON 4.7K 1/4 W 5%	
RESISTOR							
R151	1-246-494-00	CARBON 7.5K 1/4 W 5%		R383	1-246-447-00	CARBON 82 1/4 W 5%	
R152	1-246-515-00	CARBON 56K 1/4 W 5%		R384	1-246-503-00	CARBON 18K 1/4 W 5%	
R153	1-246-503-00	CARBON 18K 1/4 W 5%		R385	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R154	1-246-485-00	CARBON 3.3K 1/4 W 5%		R481	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R156	1-246-521-00	CARBON 100K 1/4 W 5%		R482	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R201	1-246-496-00	CARBON 9.1K 1/4 W 5%		R483	1-246-447-00	CARBON 82 1/4 W 5%	
R202	1-246-475-00	CARBON 1.2K 1/4 W 5%		R484	1-246-503-00	CARBON 18K 1/4 W 5%	
R203	1-246-472-00	CARBON 910 1/4 W 5%		R501	1-246-451-00	CARBON 120 1/4 W 5%	
R204	1-246-467-00	CARBON 560 1/4 W 5%		R502	1-246-528-00	CARBON 200K 1/4 W 5%	
R205	1-246-449-00	CARBON 100 1/4 W 5%		R503	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R206	1-246-497-00	CARBON 10K 1/4 W 5%		R504	1-246-501-00	CARBON 15K 1/4 W 5%	
R207	1-246-487-00	CARBON 3.9K 1/4 W 5%		R505	1-246-458-00	CARBON 240 1/4 W 5%	
R208	1-246-449-00	CARBON 100 1/4 W 5%		R506	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R210	1-246-457-00	CARBON 220 1/4 W 5%		R507	1-246-537-00	CARBON 470K 1/4 W 5%	
R211	1-246-489-00	CARBON 4.7K 1/4 W 5%		R508	1-246-473-00	CARBON 1K 1/4 W 5%	
R212	1-246-477-00	CARBON 1.5K 1/4 W 5%		R509	1-246-515-00	CARBON 56K 1/4 W 5%	
R213	1-246-449-00	CARBON 100 1/4 W 5%		R510	1-246-525-00	CARBON 150K 1/4 W 5%	
R215	1-246-451-00	CARBON 120 1/4 W 5%		R551	1-246-449-00	CARBON 100 1/4 W 5%	
R216	1-246-495-00	CARBON 8.2K 1/4 W 5%		R552	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R217	1-246-477-00	CARBON 1.5K 1/4 W 5%		R553	1-246-507-00	CARBON 27K 1/4 W 5%	
R218	1-246-463-00	CARBON 390 1/4 W 5%		R554	1-246-525-00	CARBON 150K 1/4 W 5%	
R219	1-246-449-00	CARBON 100 1/4 W 5%		R555	1-246-475-00	CARBON 1.2K 1/4 W 5%	
				R556	1-246-493-00	CARBON 6.8K 1/4 W 5%	

NOTE:

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• 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 uF

RESISTORS
• All resistors are in ohms.

COILS
• MMH : mH, UH : μ H

A X4 H5 H2

Ref.No.	Part No.	Description	Remark
R557	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R558	1-246-505-00	CARBON 22K 1/4 W 5%	
R559	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R560	1-246-495-00	CARBON 8.2K 1/4 W 5%	
R561	1-246-427-00	CARBON 12 1/4 W 5%	
R562	1-246-409-00	CARBON 2.2 1/4 W 5%	
R563	1-246-455-00	CARBON 180 1/4 W 5%	
R564	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R565	1-246-467-00	CARBON 560 1/4 W 5%	
R566	1-246-507-00	CARBON 27K 1/4 W 5%	
R567	1-246-419-00	CARBON 5.6 1/4 W 5%	
R568	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R569	1-246-409-00	CARBON 2.2 1/4 W 5%	
R570	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R571	1-246-459-00	CARBON 270 1/4 W 5%	
R572	1-212-371-00	METAL 8.2 1 W 5% nonflammable	
R573	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R601	1-246-511-00	CARBON 39K 1/4 W 5%	
R602	1-246-455-00	CARBON 180 1/4 W 5%	
R603	A-1-246-483-00	CARBON 2.7K 1/4 W 5%	
R604	A-1-246-479-00	CARBON 1.8K 1/4 W 5%	
R801	1-246-497-00	CARBON 10K 1/4 W 5%	
R802	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R803	1-246-467-00	CARBON 560 1/4 W 5%	
R804	1-246-467-00	CARBON 560 1/4 W 5%	
R805	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R806	1-246-473-00	CARBON 1K 1/4 W 5%	
R807	1-246-511-00	CARBON 39K 1/4 W 5%	
R808	1-246-471-00	CARBON 820 1/4 W 5%	
R809	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R810	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R811	1-246-443-00	CARBON 56 1/4 W 5%	
R812	1-246-455-00	CARBON 180 1/4 W 5%	
R813	1-246-461-00	CARBON 330 1/4 W 5%	
R814	1-213-127-00	METAL 47 1 W 5% nonflammable	
R815	1-246-459-00	CARBON 270 1/4 W 5%	
R816	1-246-409-00	CARBON 2.2 1/4 W 5%	
R851	1-246-529-00	CARBON 220K 1/4 W 5%	
R852	1-246-529-00	CARBON 220K 1/4 W 5%	
R853	1-202-677-35	SOLID 22M 1/2 W 10%	
R854	1-246-471-00	CARBON 820 1/4 W 5%	
R855	1-246-455-00	CARBON 180 1/4 W 5%	
VARIABLE RESISTOR			
RV151	1-224-222-12	RES, ADJ, CARBON 100K	
RV152	1-224-222-12	RES, ADJ, CARBON 100K	
RV153	1-222-786-12	RES, ADJ, CARBON 22K	
RV201	1-222-517-12	RES, ADJ, CARBON 1K	
RV501	1-224-897-00	RES, ADJ, CARBON 1K	
RV502	1-224-899-00	RES, ADJ, CARBON 250K	
RV551	1-224-898-00	RES, ADJ, CARBON 100K	
RV552	1-222-787-12	RES, ADJ, CARBON 10K	
RV601	A-1-222-517-12	RES, ADJ, CARBON 1K	

Ref.No.	Part No.	Description	Remark
RV801	1-224-897-00	RES, ADJ, CARBON 1K	
RV951	1-226-918-00	RES, VAR, CARBON(WITH SW) 200K	
SWITCH			
S151	1-553-006-00	SWITCH, ROTARY SLIDE	
TRANSFORMER			
T201	1-404-118-00	VIFT	
T251	1-404-103-00	COIL, SIF	
T801	A-1-453-077-00	TRANSFORMER, FLYBACK, FB	
T851	A-1-442-757-00	TRANSFORMER, HEATER	
THERMISTOR			
TH201	1-800-196-21	THERMISTOR, S-300	
TH202	1-800-196-21	THERMISTOR, S-300	
TH551	1-800-196-21	THERMISTOR, S-300	
TUNER			
TU151	A-1-463-227-00	VHF TUNER (BT-806)	
TU152	A-1-463-226-00	VHF TUNER (BT-846)	

♣:1-602-734-11	X4 BOARD (CANADIAN MODEL ONLY)	E-61	
CAPACITOR			
C202	1-101-002-00	CERAMIC 0.0022MF 50V	
COIL			
L208	1-409-257-00	COIL, TRAP	
L209	1-409-258-00	COIL, TRAP 39.75MHZ	
RESISTOR			
R239	1-246-427-00	CARBON 12 1/4 W 5%	
R240	1-246-427-00	CARBON 12 1/4 W 5%	

♣:1-601-044-00	H5 BOARD	E-105	
SWITCH			
S702	1-552-855-00	SWITCH, PUSHBUTTON	

♣:1-601-041-00	H2 BOARD	E-104	
♣:1-534-872-21	PIN CABLE	E-4	
♣:1-551-383-00	CABLE WITH PIN	E-57	
♣:4-025-166-00	COVER, SWITCH		
DIODE			
D701	=>8-719-156-25	DIODE RD5.6E-B2Z	
D702	8-719-815-55	DIODE 1S1555	

NOTE:

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CAPACITORS
* MF : μF, PF : μμF

RESISTORS
* All resistors are in ohms.

COILS
* MMH : mH, UH : μH

H2 X1 X2 H1 W

Ref.No.	Part No.	Description	Remark
<u>CONNECTOR</u>			
P701	▲:1-508-910-00	PIN, CONNECTOR 12P	
P702	▲:1-508-846-00	PIN, CONNECTOR 8P	
P703	▲:1-508-845-00	PIN, CONNECTOR 6P	
<u>RESISTOR</u>			
R701	1-246-507-00	CARBON 27K 1/4 W 5%	
R702	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R703	1-246-507-00	CARBON 27K 1/4 W 5%	
R704	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R705	1-213-134-00	METAL 180 1 W 5% nonflammable	
R706	▲:1-213-124-00	METAL 27 1 W 5% nonflammable	
R708	1-246-503-00	CARBON 18K 1/4 W 5%	
R709	1-246-519-00	CARBON 82K 1/4 W 5%	
R710	1-246-535-00	CARBON 390K 1/4 W 5%	
R711	1-246-495-00	CARBON 8.2K 1/4 W 5%	
<u>SWITCH</u>			
S701	1-553-007-00	SWITCH, ROTARY SLIDE	

	▲:1-601-037-00	X1 BOARD	E-108
<u>CONNECTOR</u>			
P301	▲:1-508-845-00	PIN, CONNECTOR 6P	

	▲:1-601-038-00	X2 BOARD	E-107
<u>CONNECTOR</u>			
P302	▲:1-508-742-00	PIN, CONNECTOR 3P	
P303	▲:1-508-742-00	PIN, CONNECTOR 3P	

	▲:1-601-040-00	H1 BOARD	E-112
	▲:4-025-168-00	PLATE, SHIELD	
	▲:4-025-169-00	INSULATOR (A)	
<u>CAPACITOR</u>			
C758	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C759	1-108-626-11	MYLAR 0.01MF 10% 100V	
C760	1-108-632-11	MYLAR 0.033MF 10% 100V	
C761	1-108-638-00	MYLAR 0.1MF 10% 100V	
C762	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C763	1-108-626-11	MYLAR 0.01MF 10% 100V	
C764	1-108-632-11	MYLAR 0.033MF 10% 100V	
C765	1-108-638-00	MYLAR 0.1MF 10% 100V	
C766	1-108-626-11	MYLAR 0.01MF 10% 100V	
<u>CONNECTOR</u>			

Ref.No.	Part No.	Description	Remark
P751	▲:1-508-734-00	PIN, CONNECTOR 3P	
P752	▲:1-508-797-00	PIN, CONNECTOR 4P	
P753	▲:1-508-797-00	PIN, CONNECTOR 4P	
P755	▲:1-508-845-00	PIN, CONNECTOR 6P	
P756	▲:1-508-743-00	PIN, CONNECTOR 5P	
P757	▲:1-508-743-00	PIN, CONNECTOR 5P	
<u>RESISTOR</u>			
R751	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R752	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R760	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R761	1-246-497-00	CARBON 10K 1/4 W 5%	
R762	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R763	1-246-497-00	CARBON 10K 1/4 W 5%	
R764	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R765	1-246-497-00	CARBON 10K 1/4 W 5%	
R766	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R767	1-246-497-00	CARBON 10K 1/4 W 5%	
<u>VARIABLE RESISTOR</u>			
RV751	1-226-632-00	RES, VAR, SLIDE 100K/100K	
RV752	1-226-631-00	RES, VAR, SLIDE 100K-A/100K-A	
RV753	1-226-633-00	RES, VAR, SLIDE 10K-A	
<u>SWITCH</u>			
S751	1-516-963-00	SWITCH, LEVER SLIDE	
S752	1-553-002-00	SWITCH, LEVER SLIDE	
S753	1-553-002-00	SWITCH, LEVER SLIDE	
S754	1-516-963-00	SWITCH, LEVER SLIDE	

	▲:A-1265-014-A	W BOARD, COMPLETE	E-55
	1-401-673-00	ANTENNA, FERRITE-ROD, AM	
	▲:3-538-856-00	PIN, LEAD	
	▲:3-551-850-00	PLATE (C), SHIELD	
	▲:3-551-899-00	PLATE (E), SHIELD	
	▲:4-022-677-00	INSULATOR (E)	
	▲:4-025-109-00	PLATE (B), SHIELD	
	▲:4-025-173-00	PLATE (F), SHIELD	
	▲:4-025-192-00	PLATE (D), SHIELD	
<u>CAPACITOR</u>			
C1	1-102-942-00	CERAMIC 5PF 0.5PF 50V	
C2	1-101-004-00	CERAMIC 0.01MF 50V	
C3	1-101-004-00	CERAMIC 0.01MF 50V	
C4	1-102-959-00	CERAMIC 22PF 5% 50V	
C5	1-101-004-00	CERAMIC 0.01MF 50V	
C6	1-101-004-00	CERAMIC 0.01MF 50V	
C7	1-101-004-00	CERAMIC 0.01MF 50V	
C8	1-101-004-00	CERAMIC 0.01MF 50V	
C9	1-102-937-00	CERAMIC 4PF 0.25PF 50V	
C10	1-102-945-00	CERAMIC 8PF 0.5PF 50V	

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CAPACITORS
* MF : μF, PF : μμF

RESISTORS
* All resistors are in ohms.

COILS
* MMH : mH, UH : μH



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C11	1-102-964-00	CERAMIC 36PF	5% 50V	CF1,2	1-527-184-XX	CERAMIC FILTER	
C12	1-101-974-00	CERAMIC 20PF	5% 50V	CPI	1-231-286-00	BANDPASS FILTER	
C13	1-102-934-00	CERAMIC 1PF	0.25PF 50V			<u>TUNING CAPACITOR</u>	
C14	1-102-934-00	CERAMIC 1PF	0.25PF 50V				
C15	1-123-351-00	ELECT 0.47MF	20% 50V	CVI-4	1-151-215-XX	TUNING CAPACITOR	
C16	1-101-004-00	CERAMIC 0.01MF	50V			<u>DIODE</u>	
C17	1-101-005-00	CERAMIC 0.022MF	50V	D1	8-724-375-01	TRANSISTOR 2SC403C	
C18	1-101-004-00	CERAMIC 0.01MF	50V	D2	=>8-719-026-11	DIODE 1T261	
C19	1-101-005-00	CERAMIC 0.022MF	50V	D3	=>8-719-026-11	DIODE 1T261	
C20	1-101-004-00	CERAMIC 0.01MF	50V	D4	8-719-422-21	DIODE 1T22M	
C21	1-123-316-00	ELECT 10MF	20% 16V	D5	8-719-422-21	DIODE 1T22M	
C22	1-102-978-00	CERAMIC 220PF	5% 50V			<u>IC</u>	
C23	1-102-978-00	CERAMIC 220PF	5% 50V	IC1	8-759-833-01	IC LA3301	
C24	1-123-306-00	ELECT 47MF	20% 10V			<u>COIL</u>	
C25	1-102-975-00	CERAMIC 100PF	10% 50V	L2	1-425-632-00	COIL, HIGH FREQUENCY (FM)	
C26	1-123-308-00	ELECT 220MF	20% 10V	L3	1-459-157-00	COIL	
C27	1-123-307-00	ELECT 100MF	20% 10V	L4	1-407-175-XX	MICRO INDUCTOR 330UH	
C28	1-102-114-00	CERAMIC 470PF	10% 50V	L5	1-401-526-00	COIL, ANTENNA	
C29	1-101-004-00	CERAMIC 0.01MF	50V			<u>CONNECTOR</u>	
C30	1-102-936-00	CERAMIC 3PF SL	0.25PF 50V	MJ702	1-551-727-00	CONNECTOR, 8P	
C31	1-101-005-00	CERAMIC 0.022MF	50V			<u>TRANSISTOR</u>	
C33	1-161-013-00	CERAMIC 0.01MF	10% 25V	Q1	8-729-671-14	TRANSISTOR 2SC710	
C34	1-101-005-00	CERAMIC 0.022MF	50V	Q2	8-729-167-42	TRANSISTOR 2SC1674	
C35	1-123-317-00	ELECT 22MF	20% 16V	Q3	8-729-671-13	TRANSISTOR 2SC710	
C36	1-101-004-00	CERAMIC 0.01MF	50V	Q4	8-729-671-14	TRANSISTOR 2SC710	
C37	1-101-005-00	CERAMIC 0.022MF	50V	Q5	8-729-671-13	TRANSISTOR 2SC710	
C38	1-161-013-00	CERAMIC 0.01MF	10% 25V	Q6	8-729-671-13	TRANSISTOR 2SC710	
C39	1-161-013-00	CERAMIC 0.01MF	10% 25V	Q7	8-729-671-15	TRANSISTOR 2SC710	
C40	1-123-295-00	ELECT 100MF	20% 6.3V	Q8	8-729-671-13	TRANSISTOR 2SC710	
C41	1-130-147-00	FILM 0.0024MF	5% 50V	Q9	8-729-671-14	TRANSISTOR 2SC710	
C42	1-130-030-00	FILM 0.01MF	5% 50V			<u>RESISTOR</u>	
C43	1-161-003-00	CERAMIC 0.0015MF	10% 25V	R1	1-246-525-00	CARBON 150K 1/4 W 5%	
C44	1-123-352-00	ELECT 1MF	20% 50V	R2	1-246-467-00	CARBON 560 1/4 W 5%	
C45	1-123-316-00	ELECT 10MF	20% 16V	R3	1-246-449-00	CARBON 100 1/4 W 5%	
C46	1-123-328-00	ELECT 4.7MF	20% 25V	R4	1-246-531-00	CARBON 270K 1/4 W 5%	
C47	1-123-328-00	ELECT 4.7MF	20% 25V	R5	1-246-467-00	CARBON 560 1/4 W 5%	
C48	1-161-005-00	CERAMIC 0.0022MF	10% 25V	R6	1-246-481-00	CARBON 2.2K 1/4 W 5%	
C49	1-161-005-00	CERAMIC 0.0022MF	10% 25V	R7	1-246-475-00	CARBON 1.2K 1/4 W 5%	
C50	1-161-005-00	CERAMIC 0.0022MF	10% 25V	R8	1-246-515-00	CARBON 56K 1/4 W 5%	
C51	1-161-005-00	CERAMIC 0.0022MF	10% 25V	R9	1-246-466-00	CARBON 510 1/4 W 5%	
C52	1-161-003-00	CERAMIC 0.0015MF	10% 25V	R10	1-246-521-00	CARBON 100K 1/4 W 5%	
C53	1-161-003-00	CERAMIC 0.0015MF	10% 25V	R11	1-246-521-00	CARBON 100K 1/4 W 5%	
C54	1-161-011-00	CERAMIC 0.0068MF	10% 25V	R12	1-246-441-00	CARBON 47 1/4 W 5%	
C55	1-161-011-00	CERAMIC 0.0068MF	10% 25V	R13	1-246-457-00	CARBON 220 1/4 W 5%	
C56	1-102-935-00	CERAMIC 2PF	0.25PF 50V	R14	1-246-517-00	CARBON 68K 1/4 W 5%	
C57	1-101-004-00	CERAMIC 0.01MF	50V	R15	1-246-477-00	CARBON 1.5K 1/4 W 5%	
C58	1-101-004-00	CERAMIC 0.01MF	50V				
C59	1-101-004-00	CERAMIC 0.01MF	50V				
C60	1-102-958-00	CERAMIC 20PF	5% 50V				
C61	1-101-004-00	CERAMIC 0.01MF	50V				
C62	1-101-004-00	CERAMIC 0.01MF	50V				

FILTER

NOTE:

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

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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.

COILS
MMH : mH, UH : μ H



Ref.No.	Part No.	Description	Remark
R16	1-246-473-00	CARBON 1K 1/4 W 5%	
R17	1-246-461-00	CARBON 330 1/4 W 5%	
R18	1-246-461-00	CARBON 330 1/4 W 5%	
R19	1-246-497-00	CARBON 10K 1/4 W 5%	
R20	1-246-517-00	CARBON 68K 1/4 W 5%	
R21	1-246-473-00	CARBON 1K 1/4 W 5%	
R22	1-246-517-00	CARBON 68K 1/4 W 5%	
R23	1-246-465-00	CARBON 470 1/4 W 5%	
R24	1-246-473-00	CARBON 1K 1/4 W 5%	
R25	1-246-535-00	CARBON 390K 1/4 W 5%	
R26	1-246-467-00	CARBON 560 1/4 W 5%	
R27	1-246-455-00	CARBON 180 1/4 W 5%	
R28	1-246-473-00	CARBON 1K 1/4 W 5%	
R29	1-246-473-00	CARBON 1K 1/4 W 5%	
R30	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R31	1-246-441-00	CARBON 47 1/4 W 5%	
R32	1-246-473-00	CARBON 1K 1/4 W 5%	
R33	1-246-501-00	CARBON 15K 1/4 W 5%	
R34	1-246-521-00	CARBON 100K 1/4 W 5%	
R35	1-246-457-00	CARBON 220 1/4 W 5%	
R36	1-246-466-00	CARBON 510 1/4 W 5%	
R37	1-246-527-00	CARBON 180K 1/4 W 5%	
R38	1-246-507-00	CARBON 27K 1/4 W 5%	
R39	1-246-473-00	CARBON 1K 1/4 W 5%	
R40	1-246-473-00	CARBON 1K 1/4 W 5%	
R41	1-246-457-00	CARBON 220 1/4 W 5%	
R42	1-246-469-00	CARBON 680 1/4 W 5%	
R43	1-246-529-00	CARBON 220K 1/4 W 5%	
R44	1-246-497-00	CARBON 10K 1/4 W 5%	
R45	1-246-484-00	CARBON 3K 1/4 W 5%	
R46	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R47	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R48	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R49	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R50	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R51	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R52	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R53	1-246-466-00	CARBON 510 1/4 W 5%	
R55	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R56	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R57	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R58	1-246-486-00	CARBON 3.6K 1/4 W 5%	
R59	1-246-486-00	CARBON 3.6K 1/4 W 5%	
R60	1-246-472-00	CARBON 910 1/4 W 5%	
R61	1-246-472-00	CARBON 910 1/4 W 5%	
R62	1-246-425-00	CARBON 10 1/4 W 5%	
R63	1-246-469-00	CARBON 680 1/4 W 5%	

VARIABLE RESISTOR

RVI 1-222-517-31 RES, ADJ, CARBON 1K

SWITCH

NOTE:

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

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "Δ" 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 MF

RESISTORS
All resistors are in ohms.

COILS
MMH : mH, UH : μ H

Ref.No.	Part No.	Description	Remark
S1-1-3	1-553-008-00	SWITCH, SLIDE	
<u>TRANSFORMER</u>			
T1	1-403-872-00	I.F.T CONVERTER, FM	
T2	1-403-952-00	TRANSFORMER, FM DISCRI	
T3	1-403-953-00	TRANSFORMER, FM DISCRI	
T4	1-404-041-00	COIL, AM DETECTION	
T5	1-405-655-00	COIL, AM OSC	
T6	1-425-956-00	COIL, MPX	
T7	1-425-956-00	COIL, MPX	
T8	1-403-144-00	I.F.T	

<u>MISCELLANEOUS</u>			
	1-501-157-XX	ANTENNA, TELESCOPIC DIPOLE	E-9
	1-553-005-00	SWITCH, ROTARY	E-60
	1-548-527-21	COUNTER, TAPE	E-203
HE	8-685-096-02	HEAD, ERASE; ERB5-36	E-201
HRP	8-829-373-00	HEAD, REC/PB; PP181-3602	E-202
L901	Δ 1-451-149-31	DEFLECTION YOKE	E-52
M	8-835-018-01	METER, DNF-1000B	E-204
ME701	1-520-325-00	METER, LEVEL	E-113
ME702	1-520-324-00	METER, LEVEL	E-114
MJ301	Δ 1-555-356-00	CONNECTOR ASSY, 6P	
MJ302	Δ 1-551-717-00	CONNECTOR, 3P	
MJ303	Δ 1-551-717-00	CONNECTOR, 3P	
MJ481	Δ 1-555-340-00	CONNECTOR ASSY, 5P	
MJ601	Δ 1-551-808-00	CONNECTOR, 2P	
MJ751	Δ 1-551-935-00	CONNECTOR ASSY, 3P	E-58
PL951	1-518-316-00	LAMP, PILOT	
PT951	Δ 1-446-732-11	TRANSFORMER, POWER	E-102
S901	1-552-694-00	SWITCH, LEAF	E-251
SP951	1-502-854-00	SPEAKER	E-5
SP952	1-502-854-00	SPEAKER	E-5
Y901	Δ 8-731-104-45	PICTURE TUBE, CT-556	E-51
<u>ACCESSORIES AND PACKING MATERIALS</u>			
	X-3701-105-0	TIP ASSY, CLEANING; HEAD	
	1-506-309-00	PLUG, SHORT (SP-100)	
	Δ 1-551-379-00	CORD, POWER (US MODEL)	
	Δ 1-551-399-00	CORD, POWER (CANADIAN MODEL)	
	3-701-625-00	BAG, POLYETHYLENE	
	4-025-175-00	BAG, PROTECTION	
	4-025-177-00	CUSHION, LEFT	
	4-025-178-00	CUSHION, RIGHT	
	4-025-904-00	CARTON (US MODEL)	
	4-025-905-00	CARTON (CANADIAN MODEL)	
	4-491-213-21	INSTRUCTION (US MODEL)	
	4-495-899-21	MANUAL, INSTRUCTION (US MODEL)	
	4-495-899-31	MANUAL, INSTRUCTION (CANADIAN MODEL)	
	8-890-241-00	TAPE, CASSETTE (CHF-30)	

STANDARD PARTS LIST

**** CAPACITOR ELECT ****

uF	6.3V	10V	16V	25V	35V	50V	100V	160V	250V	350V
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0.47						1-121-726				
1.0						391	1-123-249	1-123-252	1-123-003	1-121-168
2.2						450	250	026		1-123-028
3.3				1-121-392		393	1-121-995		004	006
4.7				395		396	1-123-255	1-121-246	1-121-759	007
10			1-121-651	398		738	1-121-126	999	1-123-254	008
22			479	480	1-121-662	152	996	1-123-253		022
33			403	404	652	405	997	919		
47		1-121-352	409	410	653	411	1-123-251			
100		414	415	416	357	417	084			
220	1-121-419	420	421	422	261	423				
330	751	805	521	654	655	656				
470	424	425	426	733	361	810				
1000		736	245	657	388	1-123-061				
2200	658	659	660	1-123-067	984					
3300	661	1-121-075	1-123-071							

**** CAPACITOR ****

uF	MYLAR		
	50V	100V	200V
	10%	10%	10%
0.001	1-108-227	1-108-365	1-108-409
0.0012	351	365	410
0.0015	228	367	411
0.0018	352	368	412
0.0022	230	369	413
0.0027	353	370	414
0.0033	232	371	415
0.0039	354	372	416
0.0047	234	373	417
0.0056	355	374	418
0.0063	237	375	419
0.0082	355	376	420
0.01	239	377	421
0.012	357	378	422
0.015	240	379	423
0.018	358	380	424
0.022	242	381	425
0.027	359	382	426
0.033	244	383	427
0.039	360	384	428
0.047	246	385	429
0.056	361	386	430
0.063	249	387	431
0.082	362	388	432
0.1	251	389	433
0.12	363	390	434
0.15	252	391	435
0.18	364	392	436
0.22	254	393	437
0.27	854		
0.33	855		
0.39	856		
0.47	857		

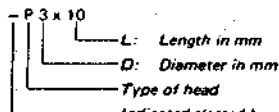
CERAMIC			
	pF	Part No.	
	0.5	1-101-837	
	0.75	586	
	1.0	1-102-934	
	1.5	1-101-576	
	2.0	1-102-935	
S	3	936	
L	4	937	
	5	942	
	6	943	
	7	944	
	8	945	
	9	946	
	10	947	
	11	948	
	12	949	
	13	950	
	15	951	
	16	952	
	18	953	
	20	958	
	22	959	
	24	960	
	27	961	
	30	962	
	33	963	
	36	964	
	39	965	
	43	966	
	47	1-101-880	
	51	882	
	56	884	
	62	886	
	68	888	
	75	890	
	82	1-102-971	
	91	972	
	100	1-102-973	
	110	815	
	120	816	
	130	1-101-081	
	150	361	
S	160	367	
L	180	1-102-976	
	200	977	
	220	978	
	240	979	
	270	980	
	300	981	
	330	820	
	360	821	
	390	822	
	430	823	
	470	824	
	510	1-101-059	
	560	1-102-115	
	630	116	
	820	117	
	1000	074	
	1200	118	
	1500	119	
R	1800	120	
	2200	121	
	2700	122	
	3300	123	
	3900	124	
	4700	125	
	5600	126	
	6800	127	
	8200	128	
	10000	129	

1/4 WATT CARBON RESISTOR

Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1.0 1-246-401-00	10 1-246-425-00	100 1-246-449-00	1.0K 1-246-473-00	10K 1-246-497-00	100K 1-246-521-00	1.0M 1-246-545-00	
1.1 402-00	11 426-00	110 450-00	1.1K 474-00	11K 498-00	110K 522-00	1.1M 814-00	
1.2 403-00	12 427-00	120 451-00	1.2K 475-00	12K 499-00	120K 523-00	1.2M 815-00	
1.3 404-00	13 428-00	130 452-00	1.3K 576-00	13K 500-00	130K 524-00	1.3M 816-00	
1.5 405-00	15 429-00	150 453-00	1.5K 577-00	15K 501-00	150K 525-00	1.5M 817-00	
1.6 1-246-406-00	16 1-246-430-00	160 1-246-454-00	1.6K 1-246-578-00	16K 1-246-502-00	160K 1-246-26-00	1.6M 1-246-818-00	
1.8 407-00	18 431-00	180 455-00	1.8K 579-00	18K 503-00	180K 527-00	1.8M 819-00	
2.0 408-00	20 432-00	200 456-00	2.0K 580-00	20K 504-00	200K 528-00	2.0M 820-00	
2.2 409-00	22 433-00	220 457-00	2.2K 581-00	22K 505-00	220K 529-00	2.2M 821-00	
2.4 410-00	24 434-00	240 458-00	2.4K 582-00	24K 506-00	240K 530-00	2.4M 754-00	
2.7 1-246-411-00	27 1-246-435-00	270 1-246-459-00	2.7K 1-246-583-00	27K 1-246-507-00	270K 1-246-531-00	2.7M 1-246-755-00	
3.0 412-00	30 436-00	300 460-00	3.0K 584-00	30K 508-00	300K 532-00	3.0M 756-00	
3.3 413-00	33 437-00	330 461-00	3.3K 585-00	33K 509-00	330K 533-00	3.3M 757-00	
3.6 414-00	36 438-00	360 462-00	3.6K 586-00	36K 510-00	360K 534-00	3.6M 758-00	
3.9 415-00	39 439-00	390 463-00	3.9K 587-00	39K 511-00	390K 535-00	3.9M 759-00	
4.3 1-246-416-00	43 1-246-440-00	430 1-246-464-00	4.3K 1-246-488-00	43K 1-246-512-00	430K 1-246-536-00	4.3M 1-246-760-00	
4.7 417-00	47 441-00	470 465-00	4.7K 489-00	47K 513-00	470K 537-00	4.7M 761-00	
5.1 418-00	51 442-00	510 466-00	5.1K 490-00	51K 514-00	510K 538-00	5.1M 762-00	
5.6 419-00	56 443-00	560 467-00	5.6K 491-00	56K 515-00	560K 539-00		
6.2 420-00	62 444-00	620 468-00	6.2K 492-00	62K 516-00	620K 540-00		
6.8 1-246-421-00	68 1-246-445-00	680 1-246-469-00	6.8K 1-246-493-00	68K 1-246-517-00	680K 1-246-541-00		
7.5 422-00	75 446-00	750 470-00	7.5K 494-00	75K 518-00	750K 542-00		
8.2 423-00	82 447-00	820 471-00	8.2K 495-00	82K 519-00	820K 543-00		
9.1 424-00	91 448-00	910 472-00	9.1K 496-00	91K 520-00	910K 544-00		

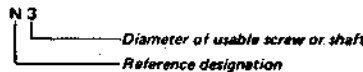
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
AK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

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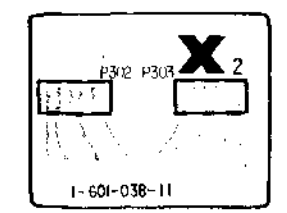
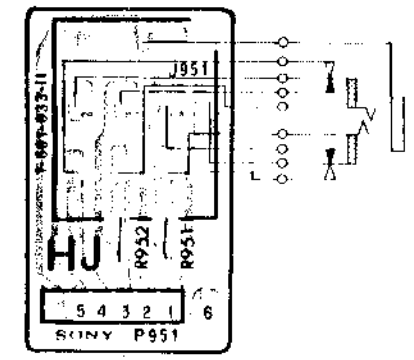
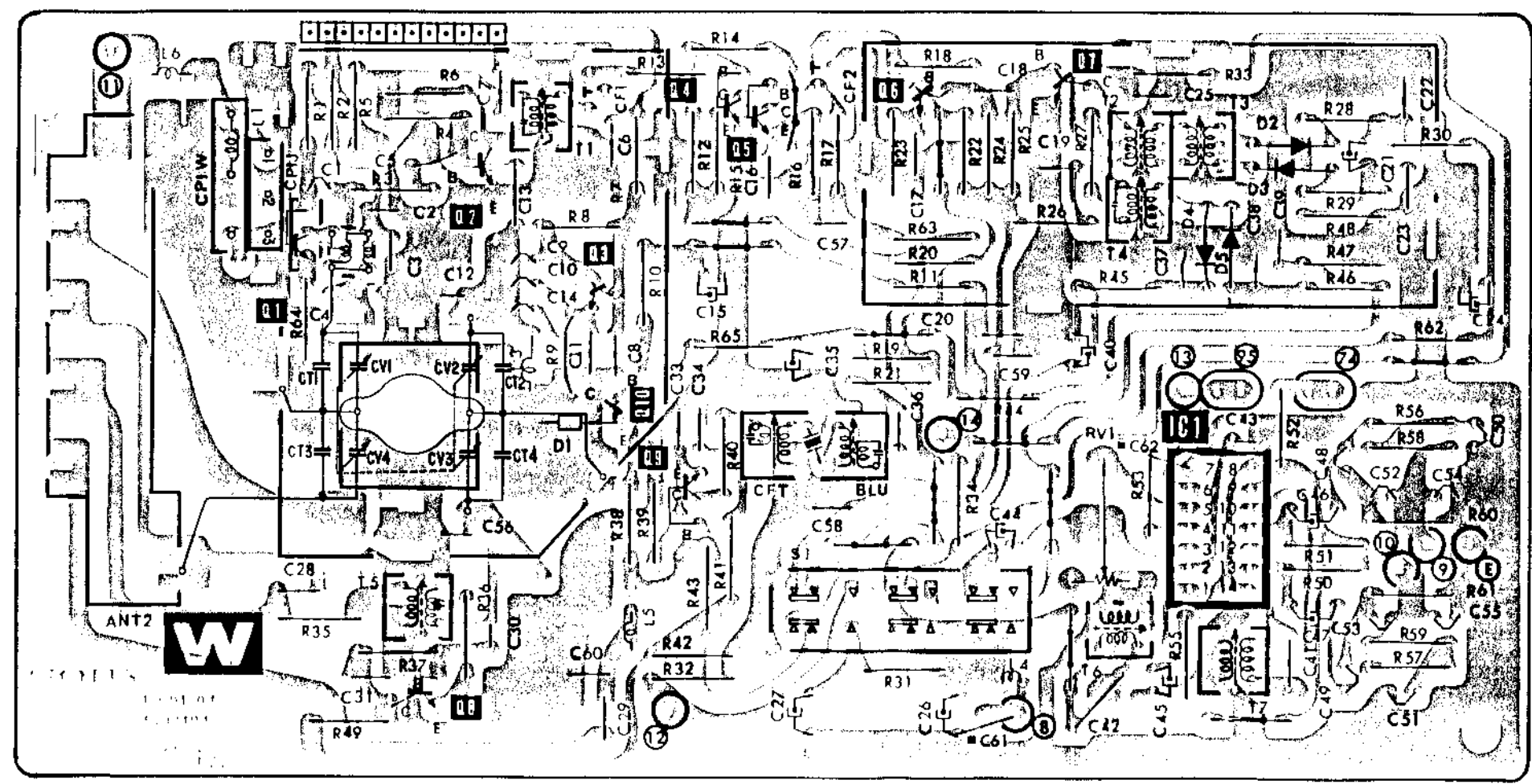
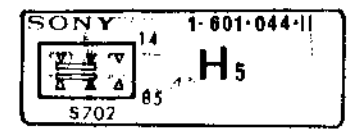
A B C D E F G H

MOUNTING DIAGRAM

W (RADIO)

H5 HJ X2

Q	1	2	3	4	5	6	7	Q
IC		8	10	9				IC1
D			1				4 5 3 2	D
ADJ							RVI	ADJ



1

2

3

4

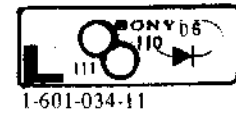
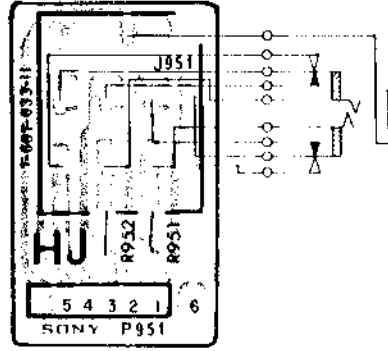
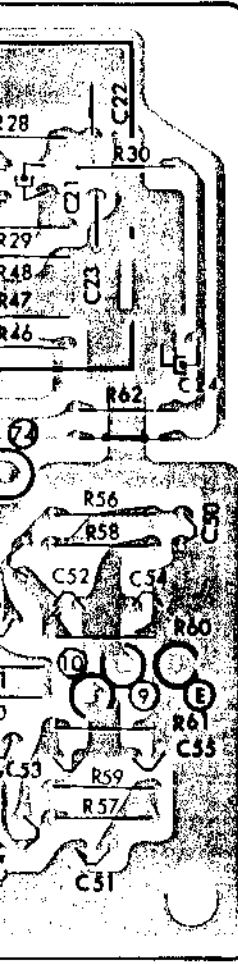
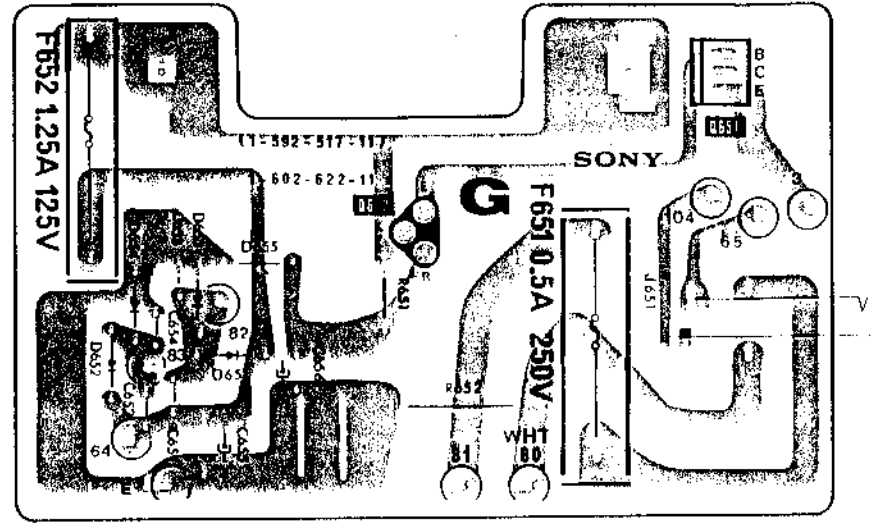
5

H5 HJ X2

G [POWER] L X4

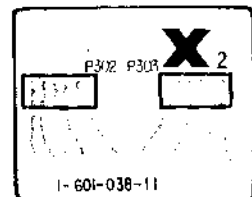
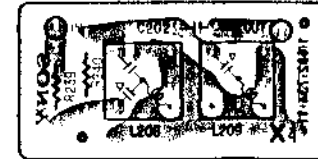
A [TV, VIF, SIF, AUDIO VIDEO, VER HOR DEFLECTION POWER]

	Q
	IC
	D
	ADJ



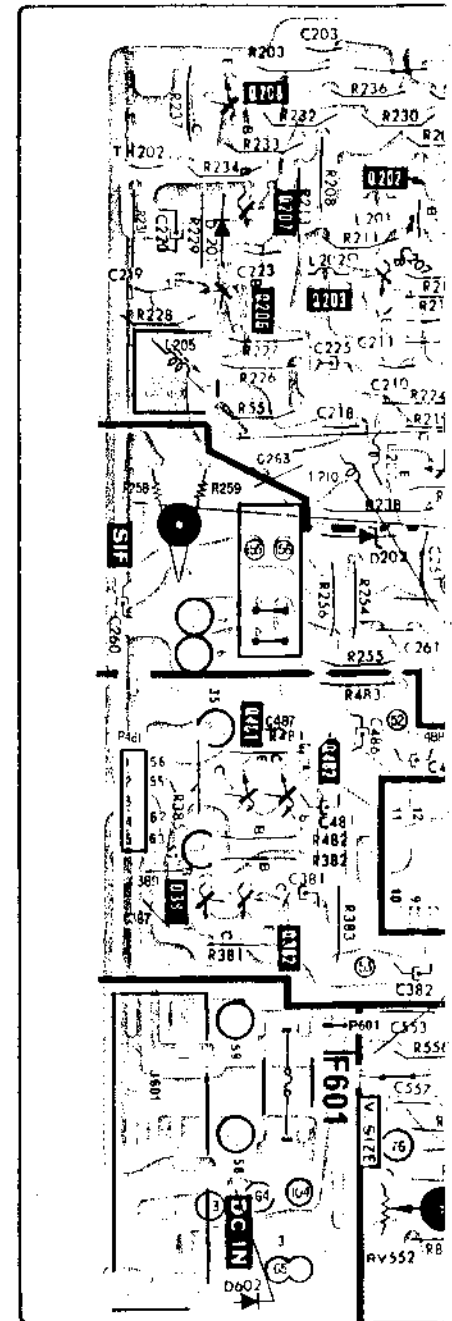
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(Canadian model only)



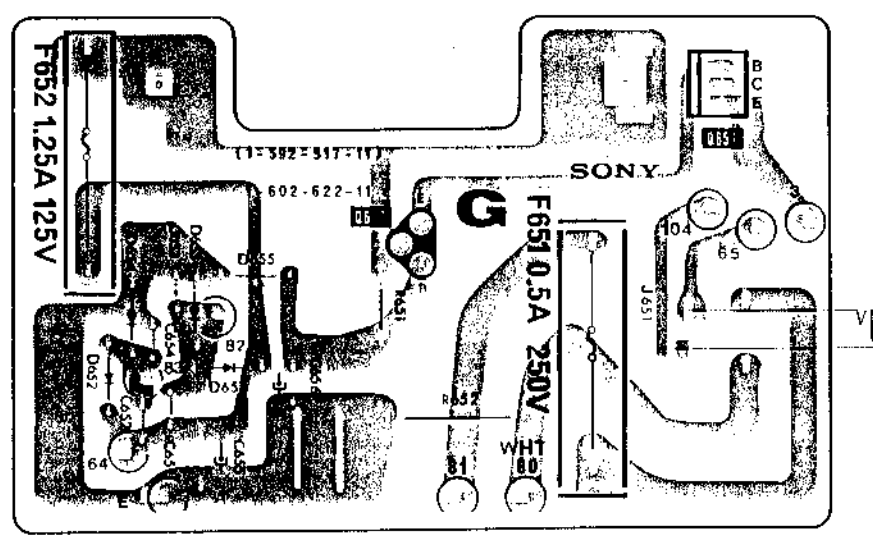
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Q	IC	D	ADJ
			RV153
201	153		
	152		
208	151		
	202		RV201
207	201		
			RV152
203	204		
206			
	IC151	802	RV151
	205	801	RV601
551	801	202	
IC251	602	601	
602	601		
	481	251	
	482	852	
	802		
	IC381	803	
381	382	851-804	
803			
	554	553 853	
	501	551	
552	555	552	
553			RV552
		602	
Q, IC	D	ADJ	

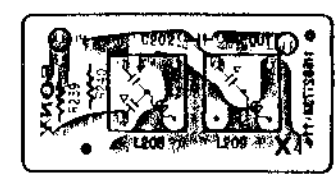
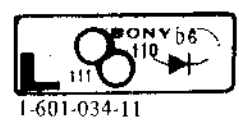


G [POWER] **L** **X4**

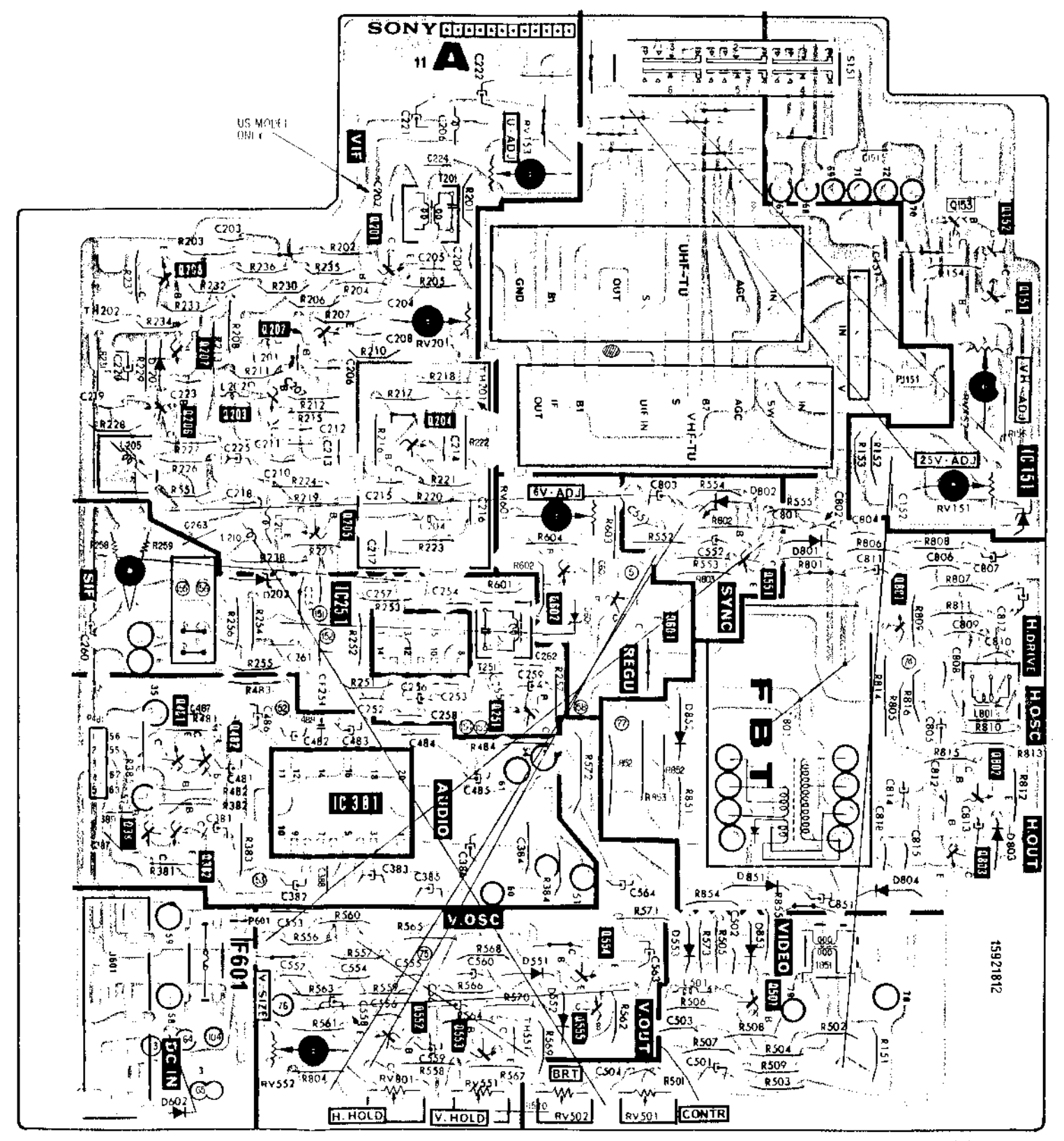
A TV, VIF, SIF, AUDIO VIDEO, VER HOR DEFLECTION POWER



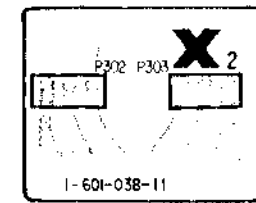
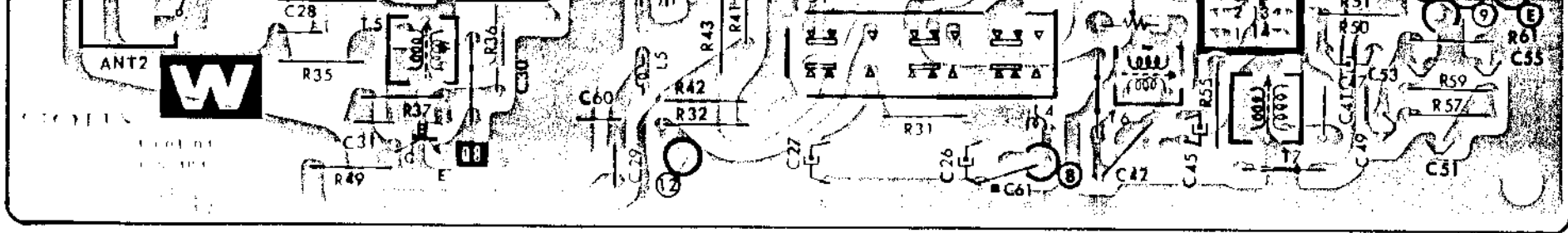
(Canadian model only)



Q · IC	D	ADJ
		RV153
153		
201 152		
208		
151		
202		RV201
207	201	
203 204		RV152
206		
IC151	802	RV151
205	801	RV601
551 801	202	
IC251	601	
602		
601		
481 251	852	
482		
802		
IC381	803	
381 382	851-804	
803		
554	553 853	
501	551	
552	552	
553		RV552
	602	
Q · IC	D	ADJ

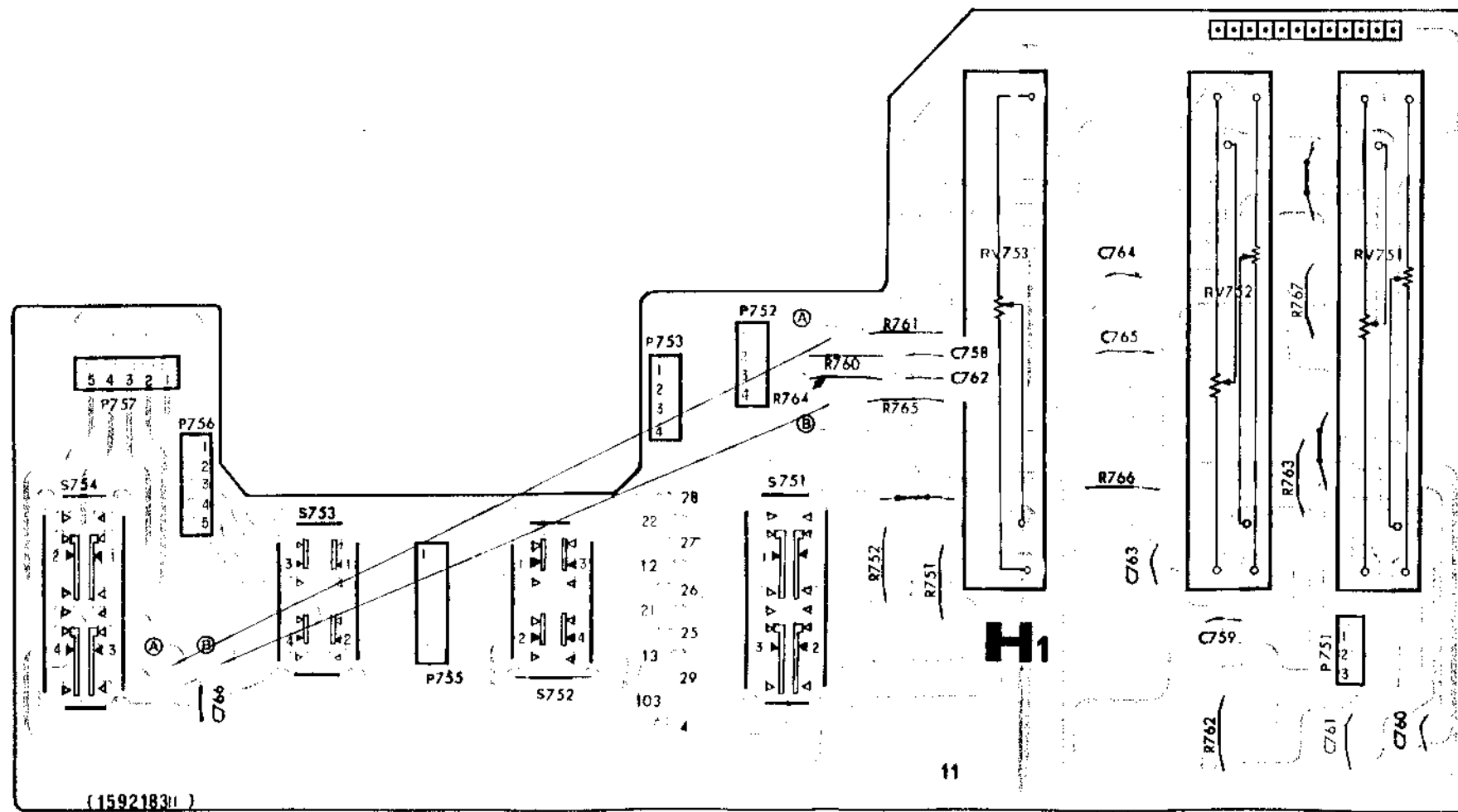


1
2
3
4
5

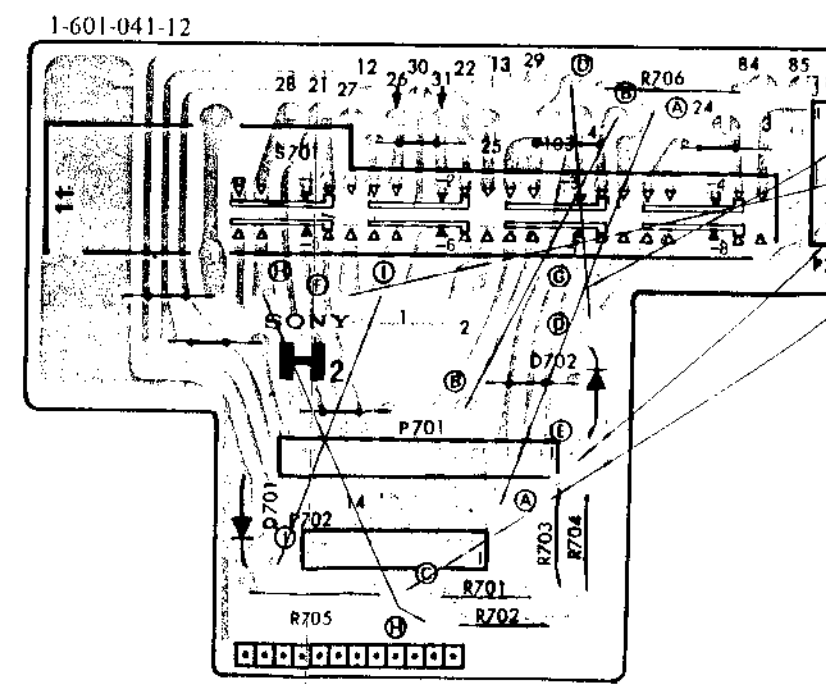


H1 [MIXING]

H2 **V**



1-601-040-11

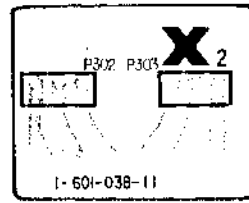


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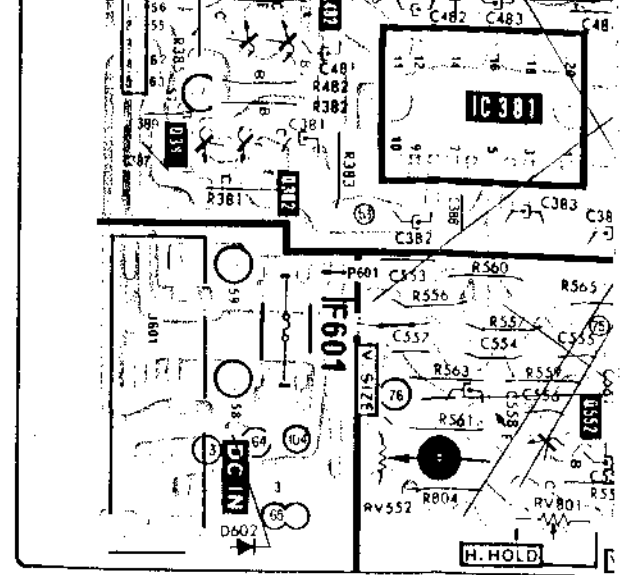




I-601-034-11



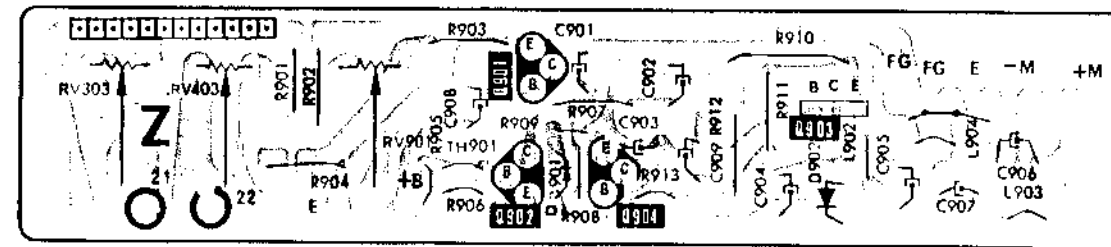
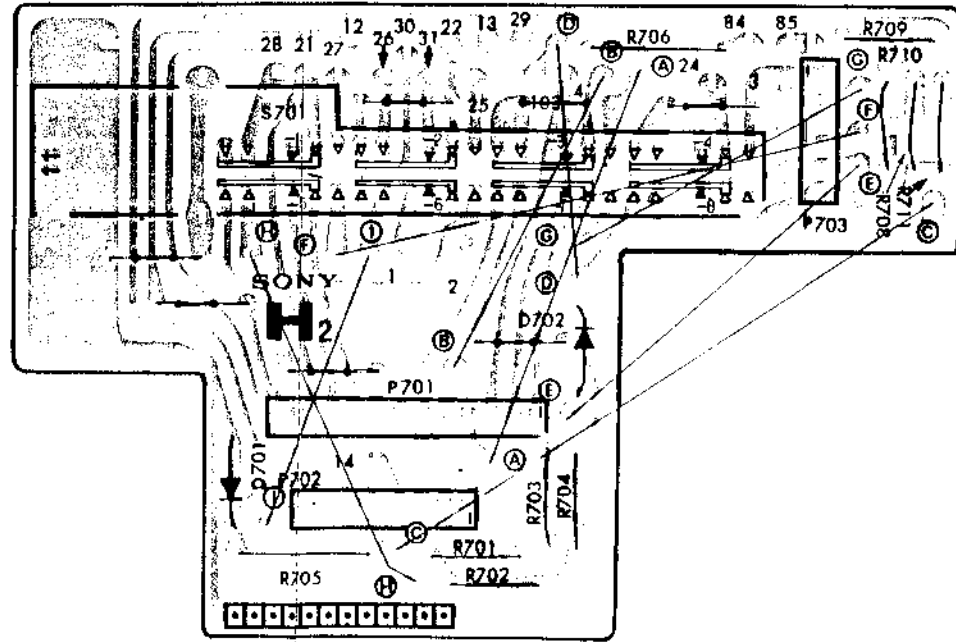
482	802	
IC381	803	
381 382	851 804	
803		
554	553 853	
501	551	
552	555	
553	552	
		RV552
	602	
Q, IC	D	ADJ



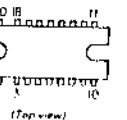
H2 V

Z (MOTOR DRIVE) H4 H7 H6 X1

I-601-041-12



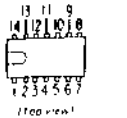
LA4125



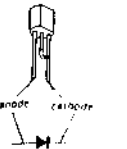
LA3301



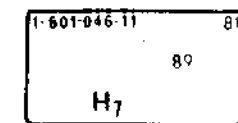
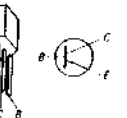
SN7668N



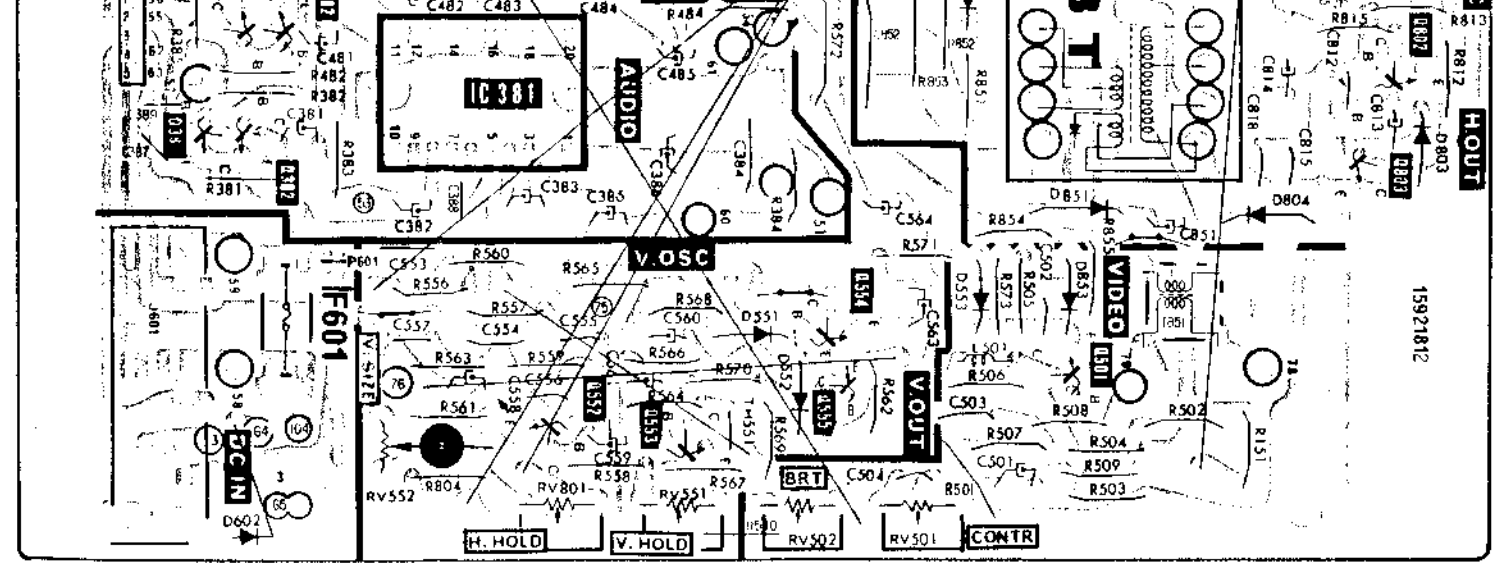
μPC574J



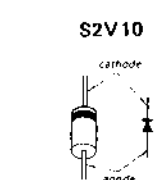
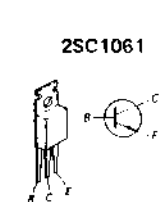
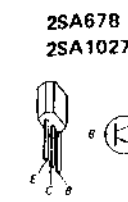
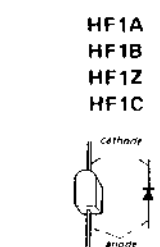
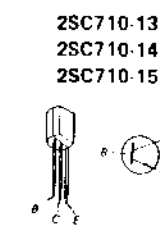
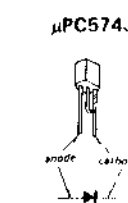
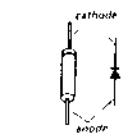
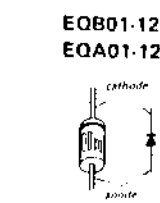
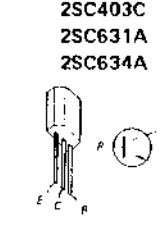
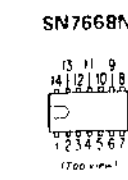
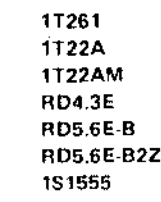
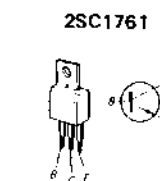
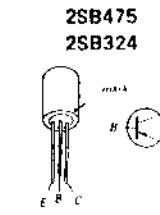
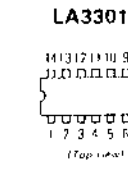
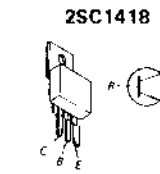
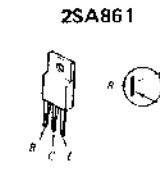
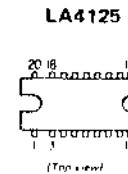
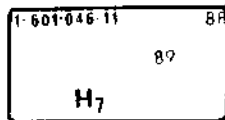
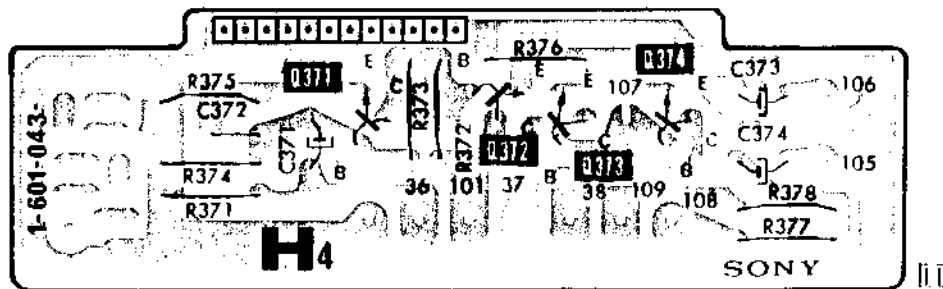
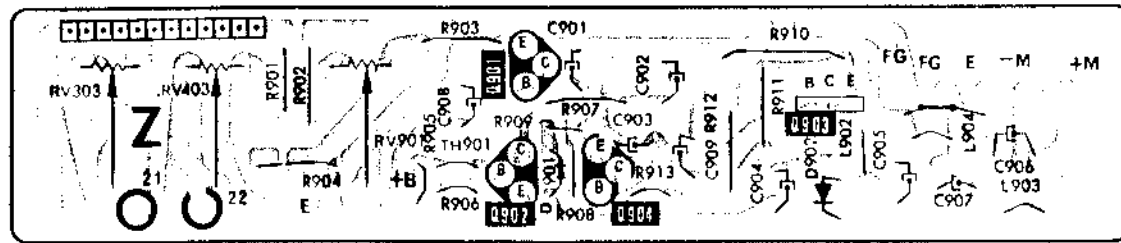
2SA678
2SA1027R



802		
IC381	803	
381 382	851 804	
803		
554	553 853	
501	551	
552	552	
553		RV552
	602	
Q, IC	D	ADJ



Z [MOTOR DRIVE] **H4** **H7** **H6** **X1**



5

6

7

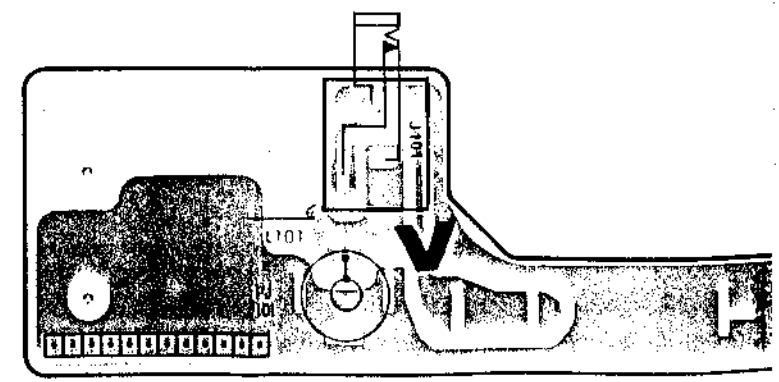
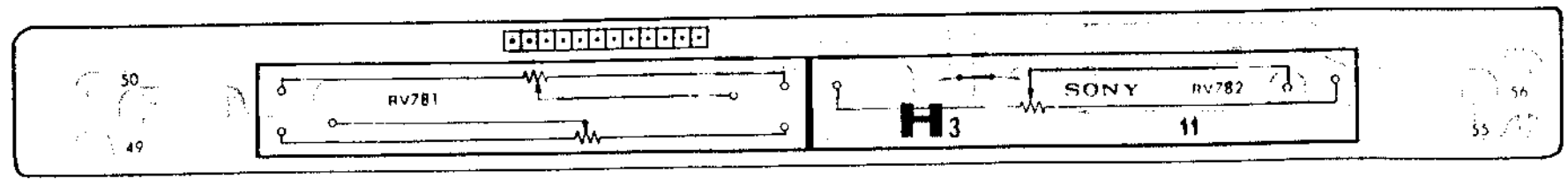
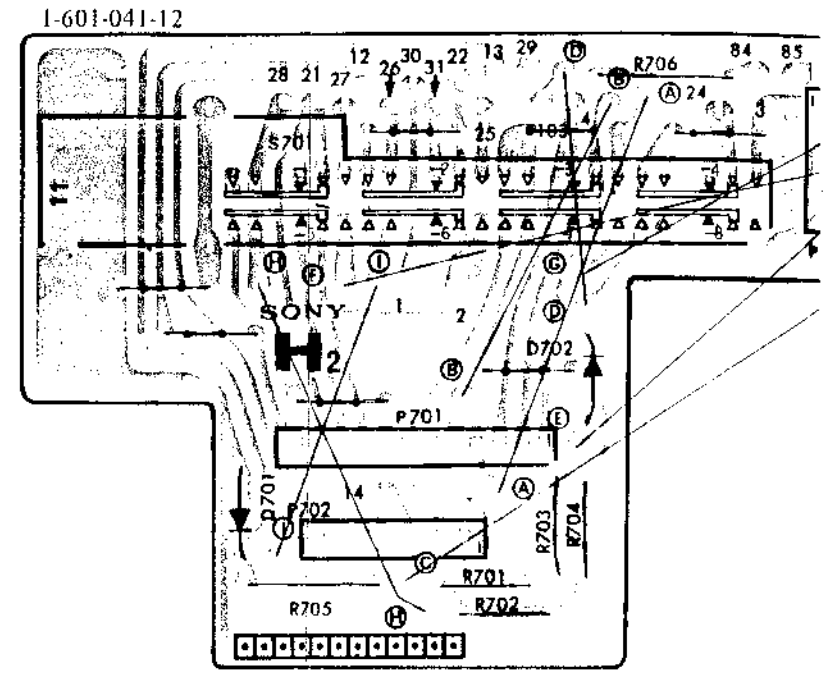
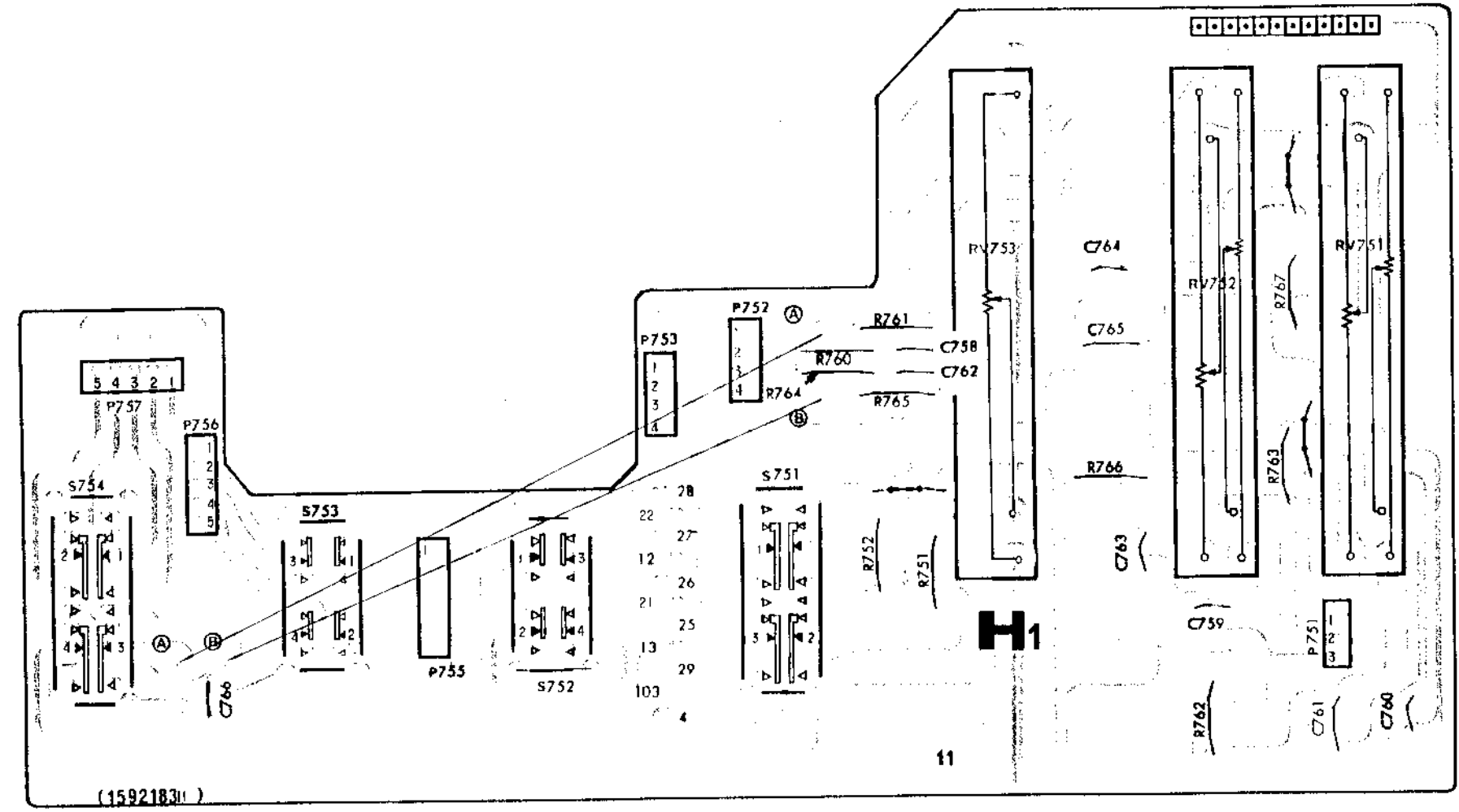
8

9

10

H1 [MIXING]

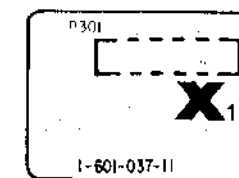
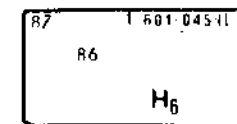
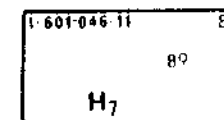
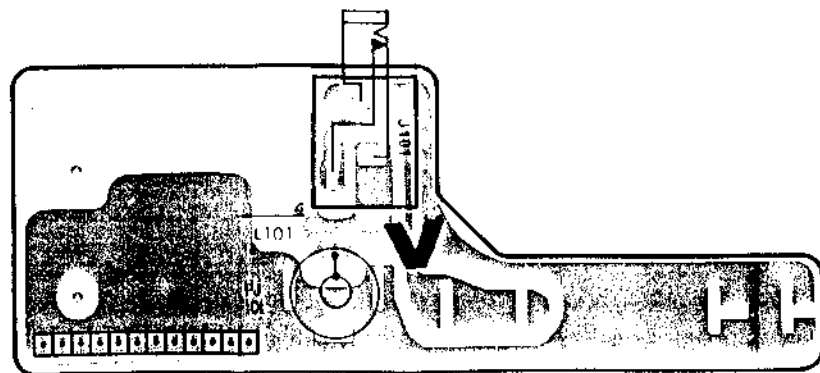
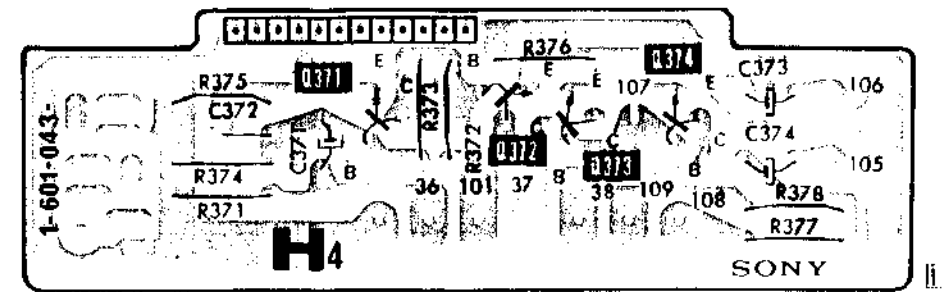
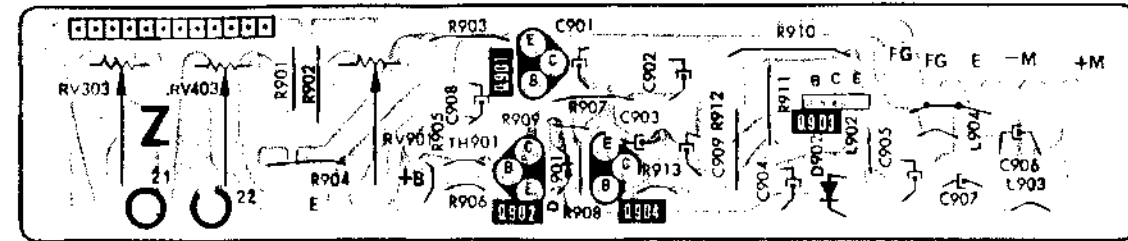
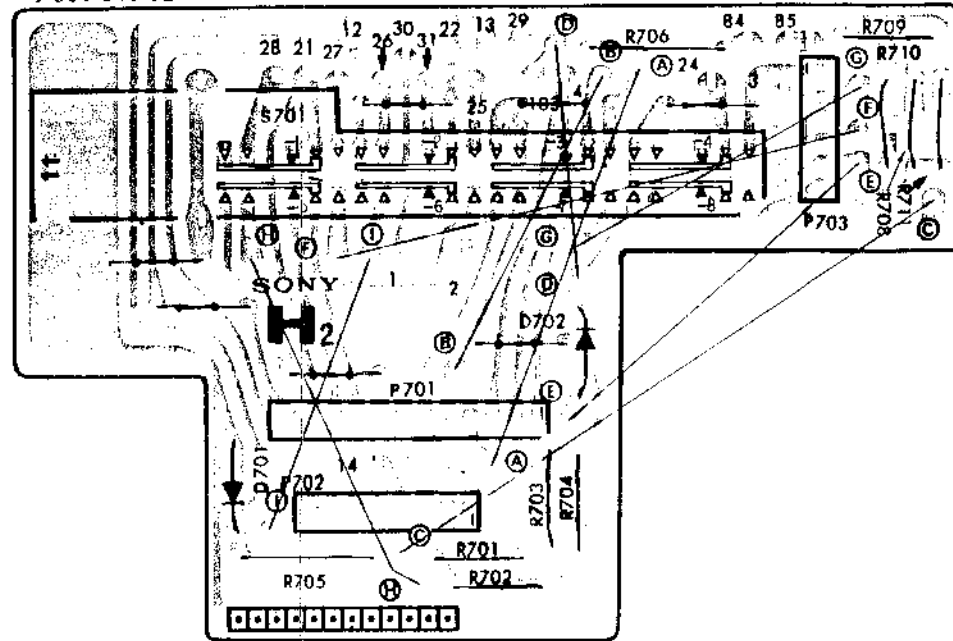
H2 **V**



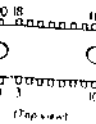
H2 V

Z [MOTOR DRIVE] H4 H7 H6 X1

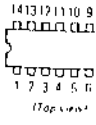
1-601-041-12



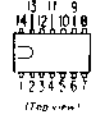
LA4125



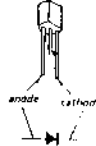
LA3301



SN7668N



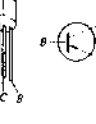
μPC574J



2SA678
2SA1027R



2SA772-23



Z

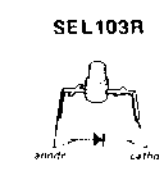
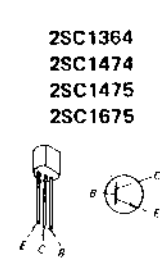
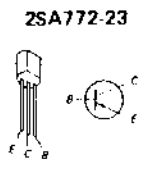
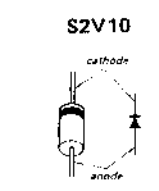
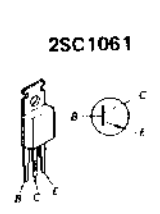
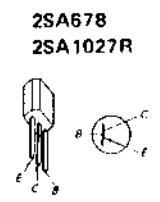
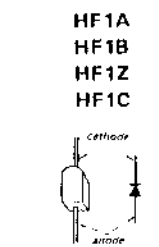
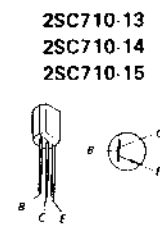
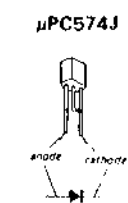
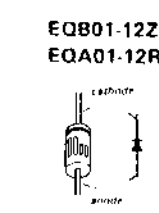
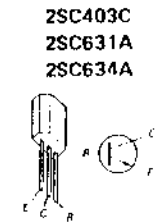
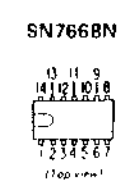
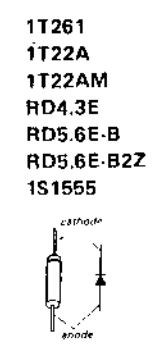
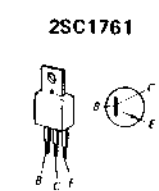
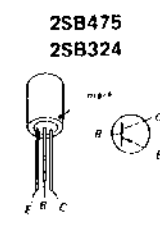
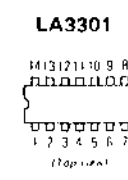
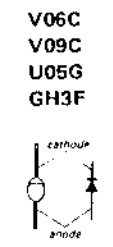
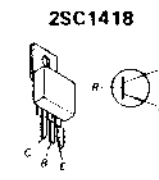
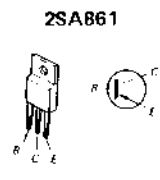
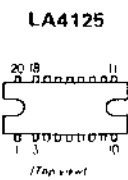
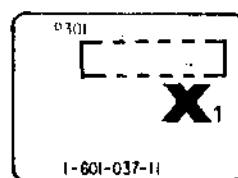
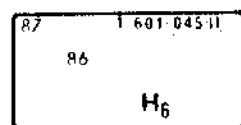
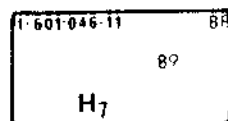
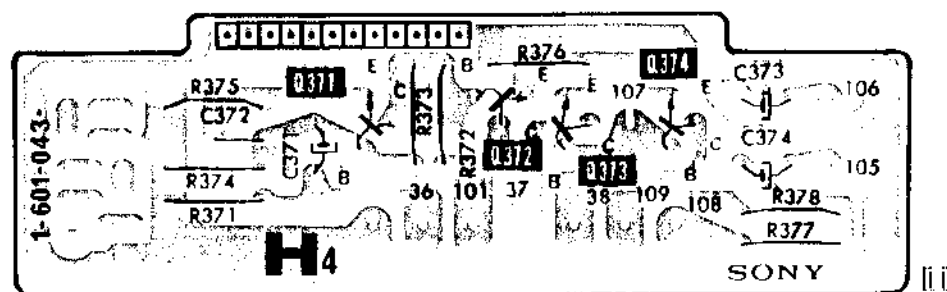
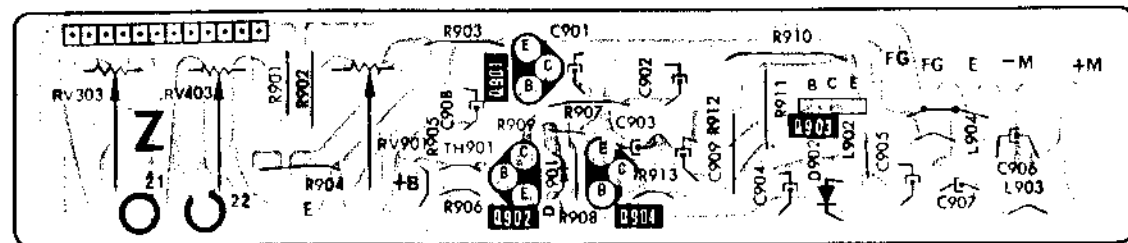
[MOTOR DRIVE]

H4

H7

H6

X1



Sony Corporation

© 1980

9-962-630-71

80E0450-1
Printed in Japan

6

7

8

9

10

11

SONY TV-FM/AM RECEIVER CASSETTE-CORDER

FX-414

US and Canadian Model

SAFETY-RELATED COMPONENT WARNING !!

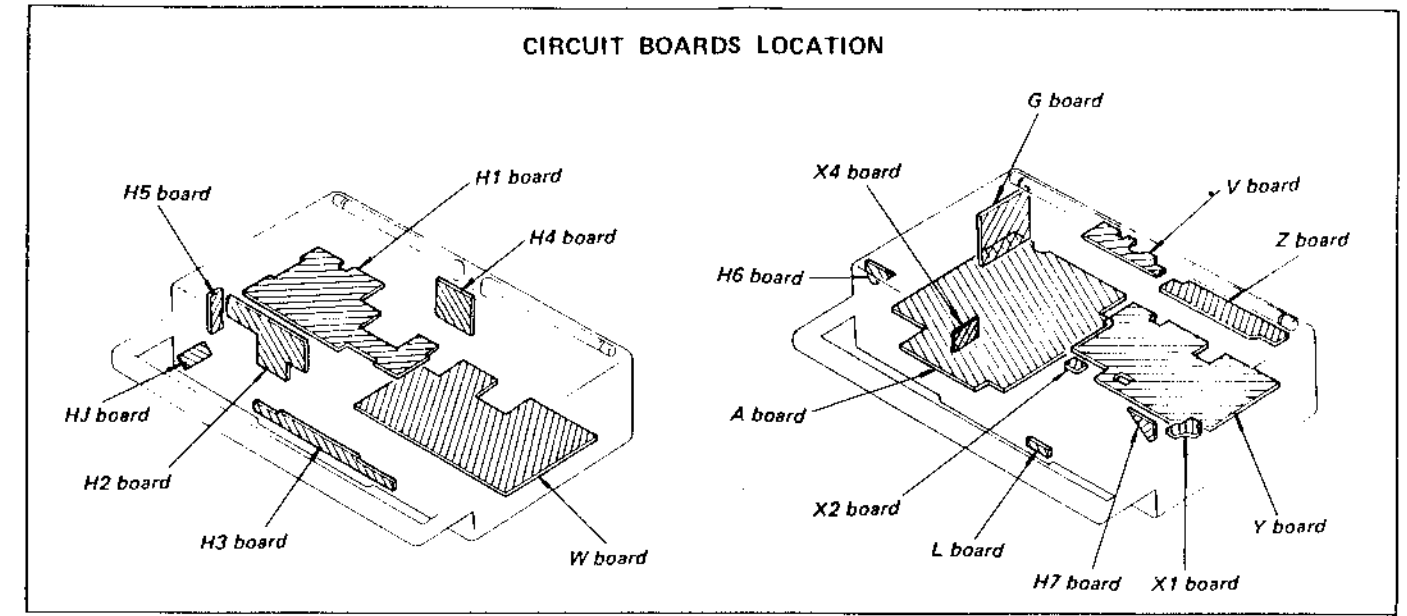
COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE Δ SUR LES DIAGRAMMES SCHEMATIQUES, LES VUES EXPLOSEES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

Note:

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μF , elect : electrolytic
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
- \square : nonflammable resistor.
- Δ : internal component.
- \square : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- * : selected to yield optimum performance
- \square : adjustment for repair.
- Total current is measured with no cassette installed.
- --- : B+ bus.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltages in W board are taken under detuned conditions. no mark : FM () : AM
- Voltages in Y board are taken under no-signal conditions in playback mode. | | : record mode
- Voltages in A board are taken under tuned conditions with CONTR and BRIGHT controls set for best picture. | | : detuned conditions
- Voltage variations may be noted due to normal production tolerances.



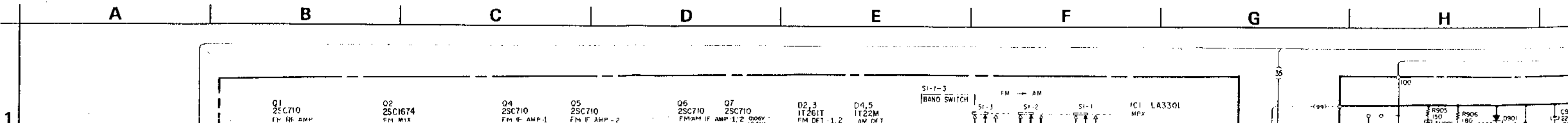
SCHEMATIC DIAGRAM

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

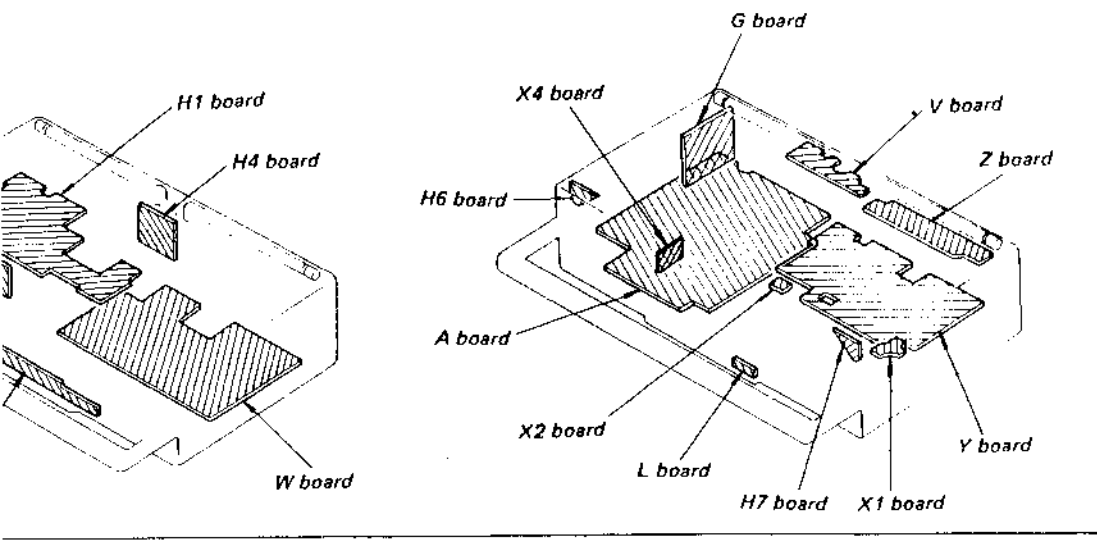
Note: Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CAUTION

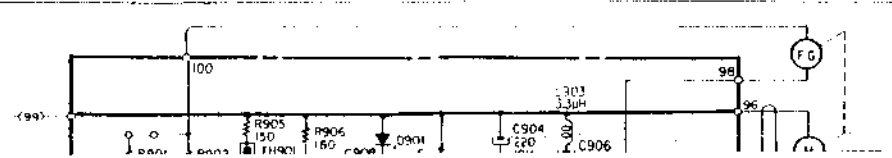
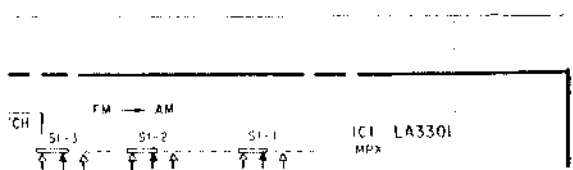
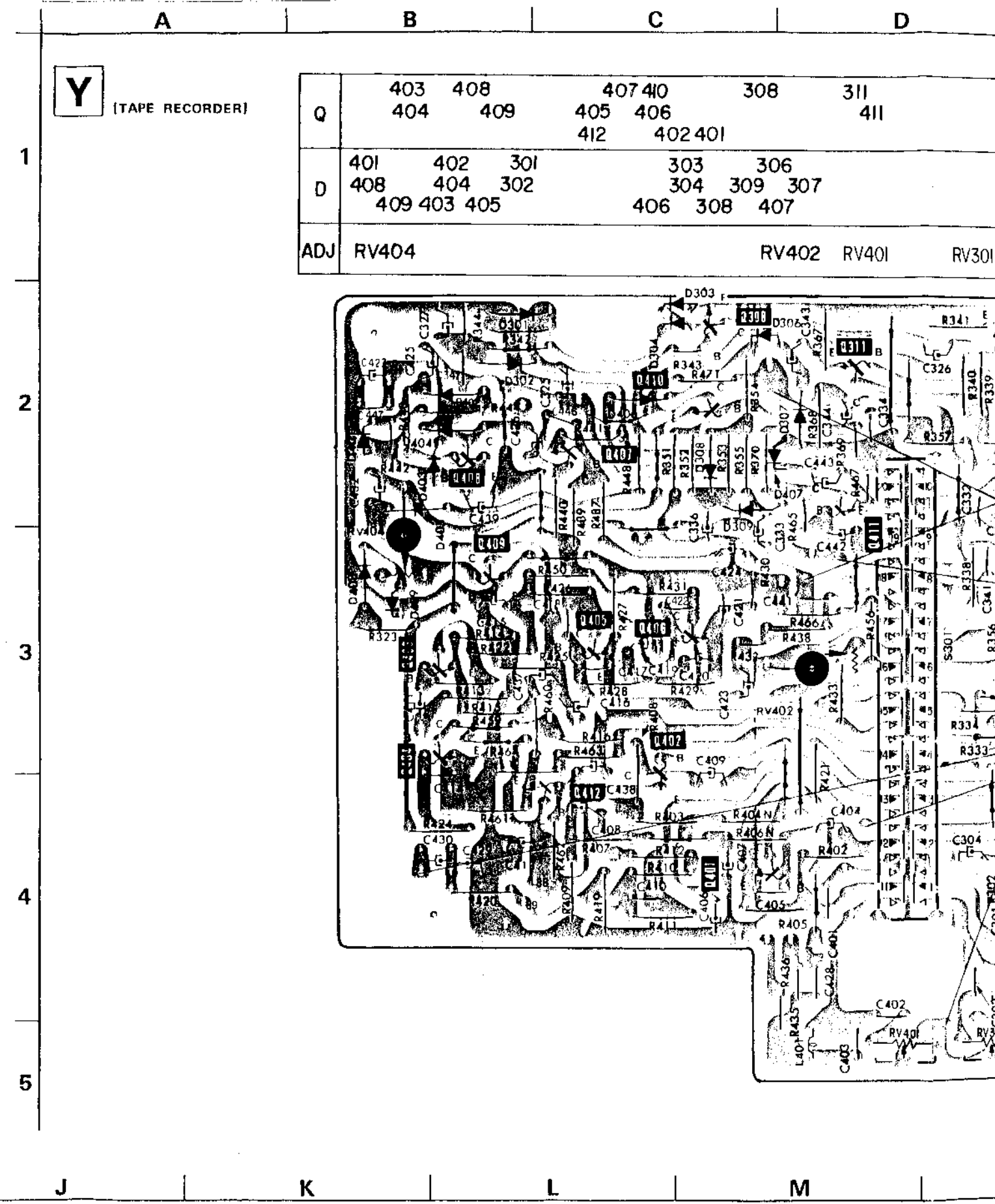
- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.



CIRCUIT BOARDS LOCATION

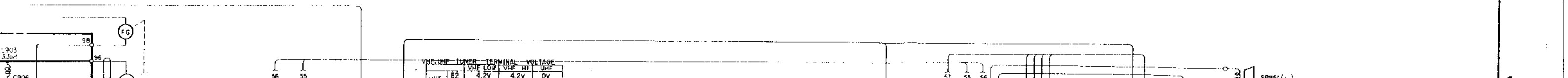
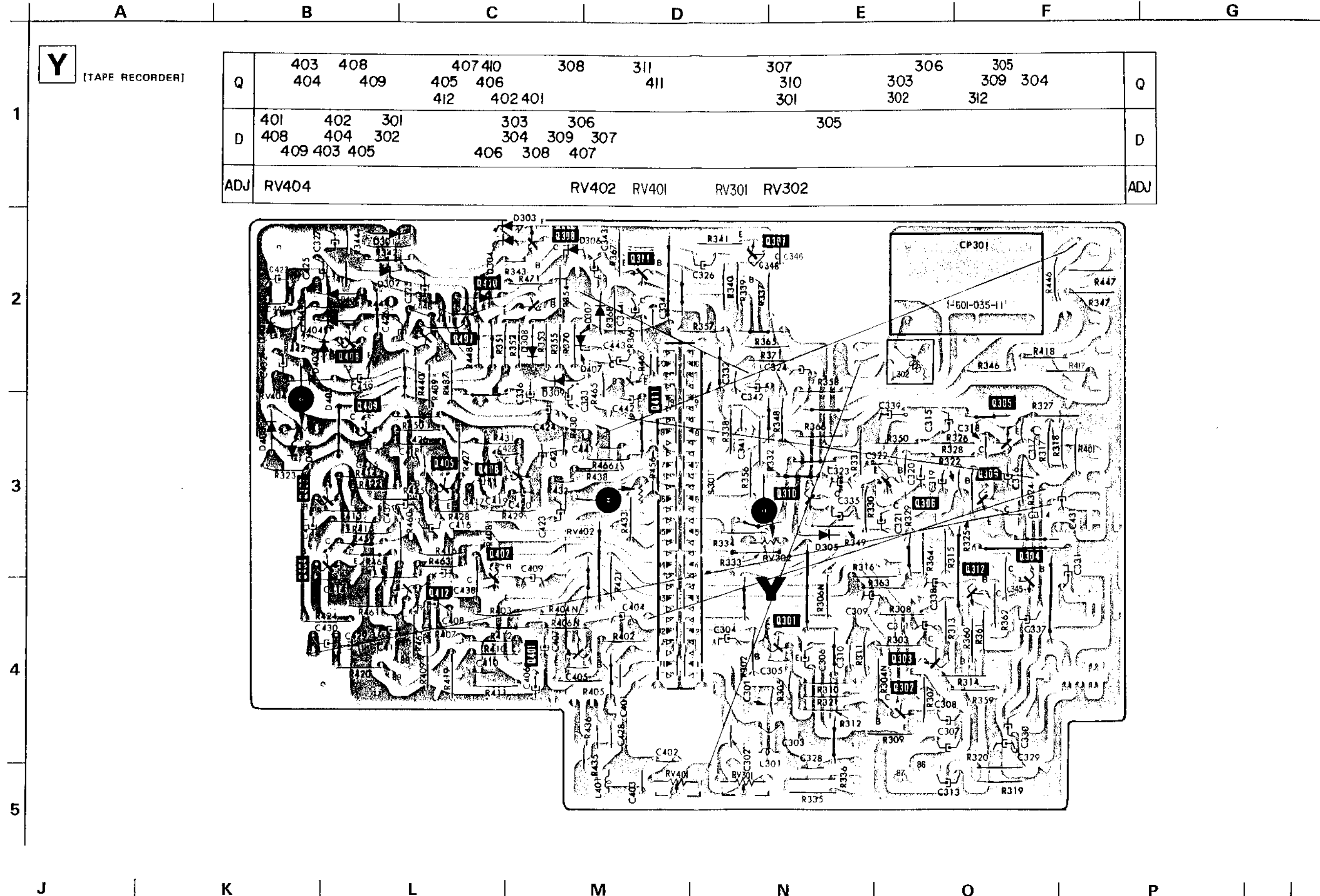


MOUNTING DIAGRAM



VHF-TUNER	TERMINAL	VOLTAGE
VHF	B2	4.2V
VHF	B1	4.2V
VHF	B3	0V

MOUNTING DIAGRAM

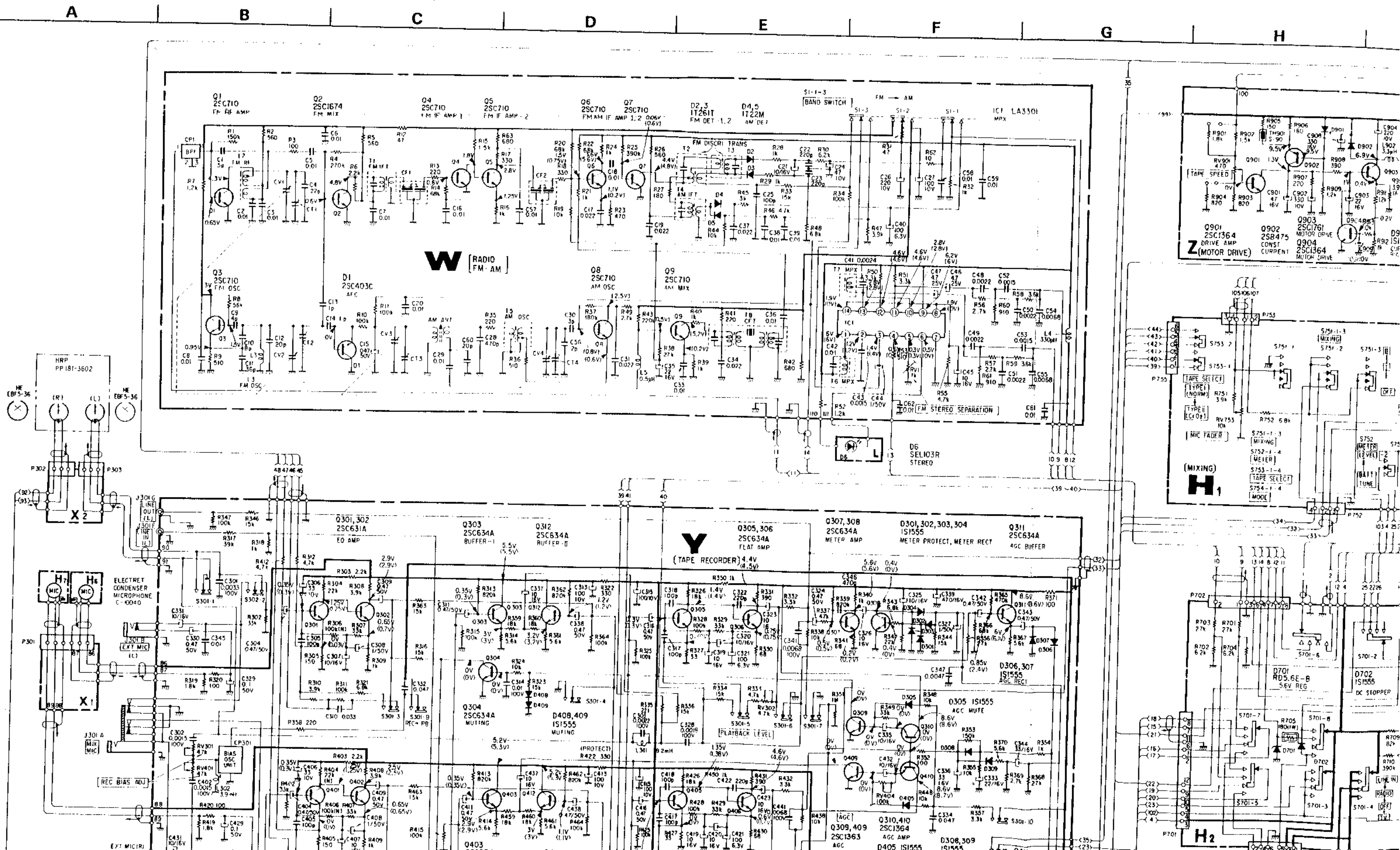


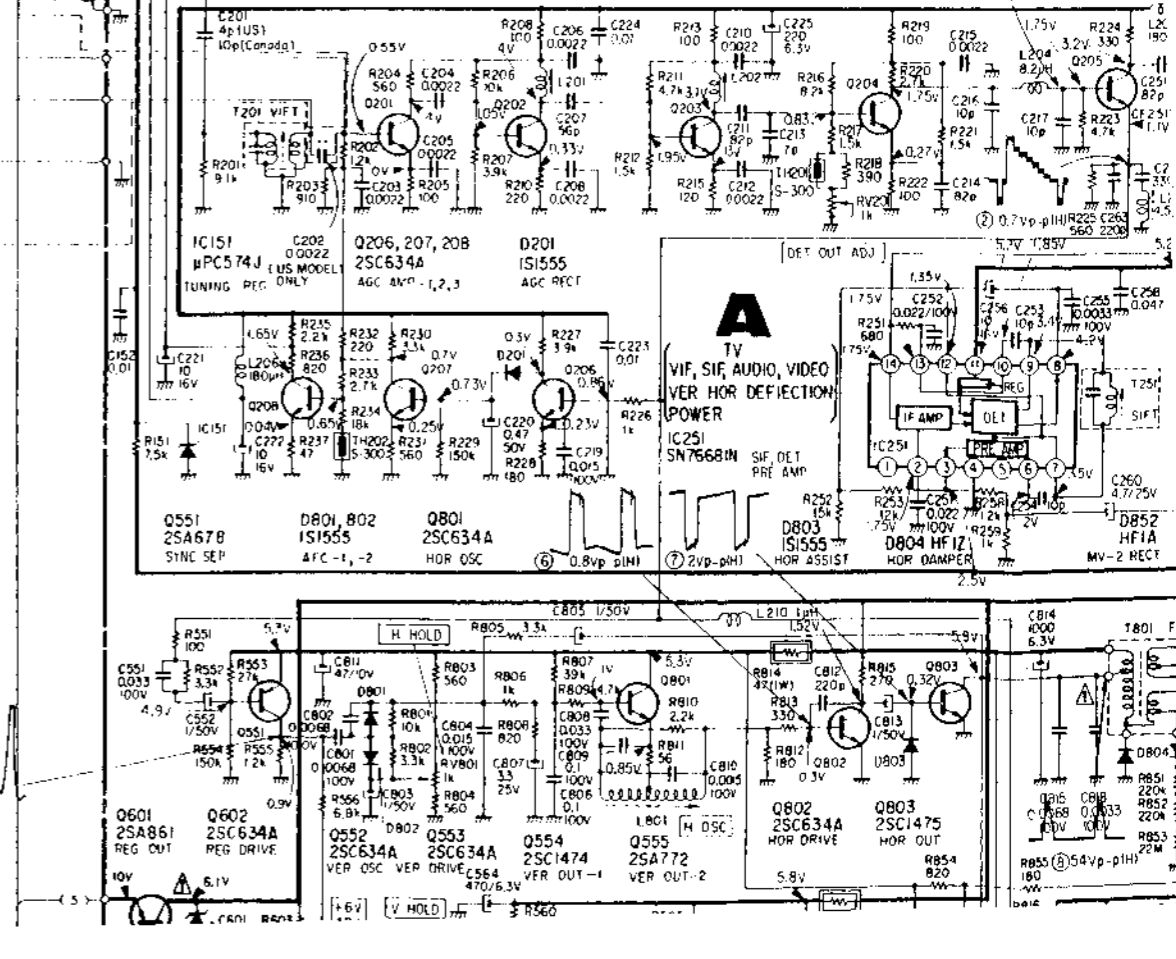
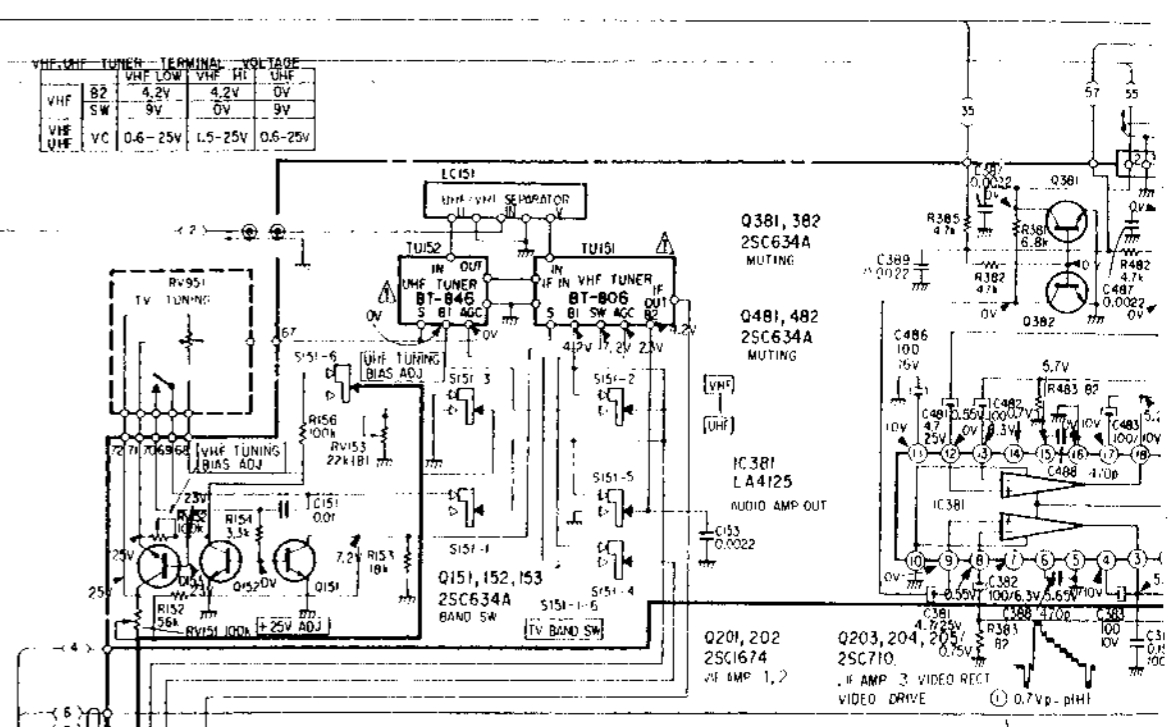
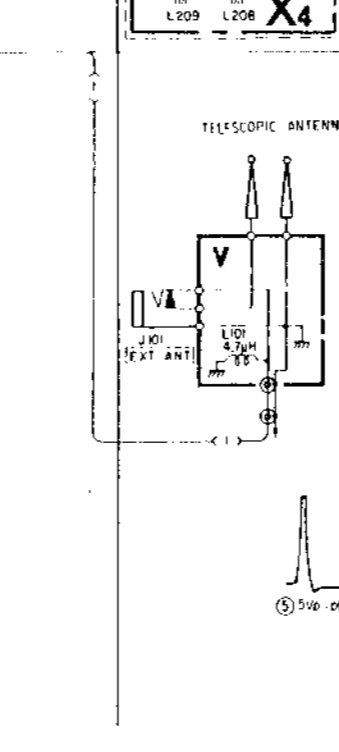
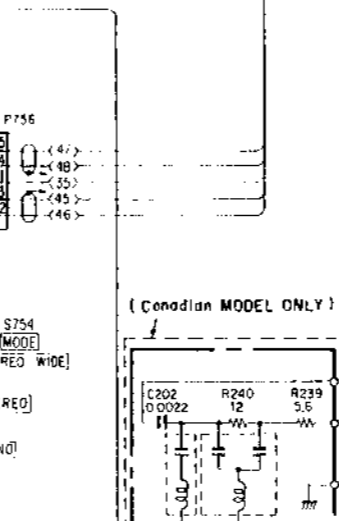
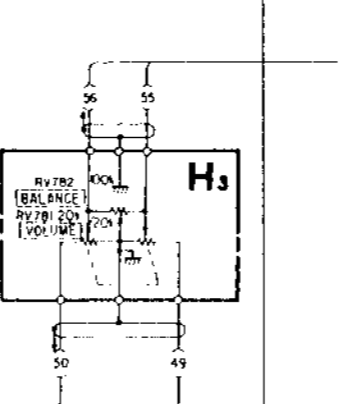
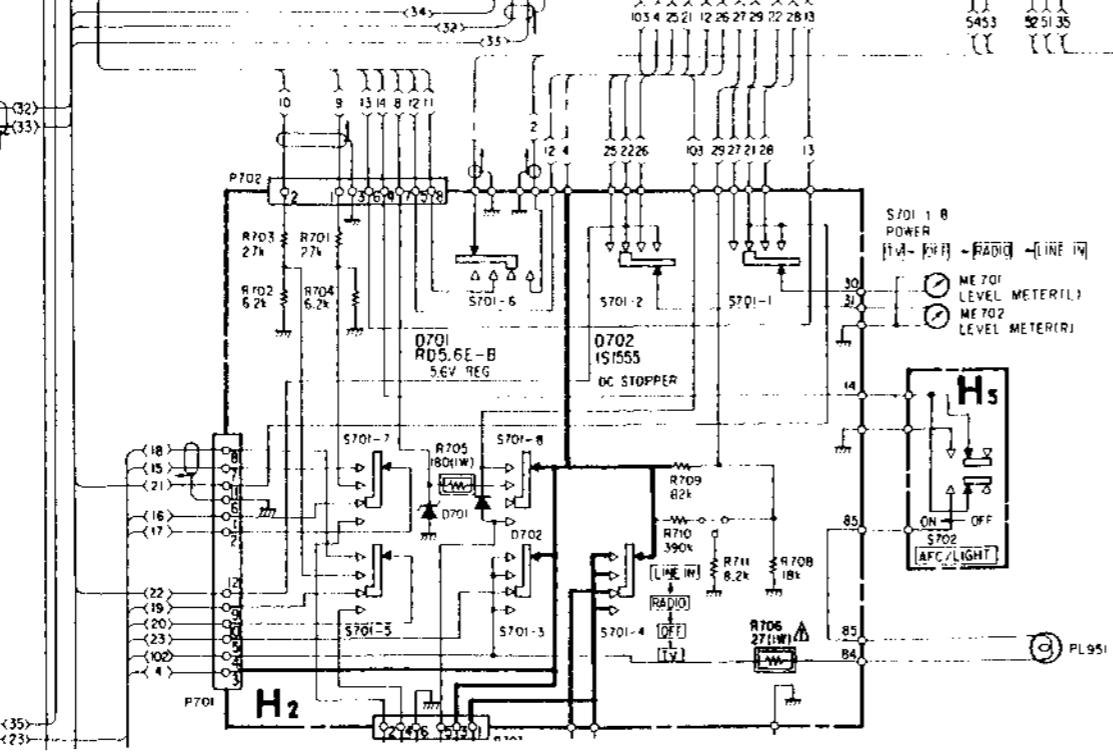
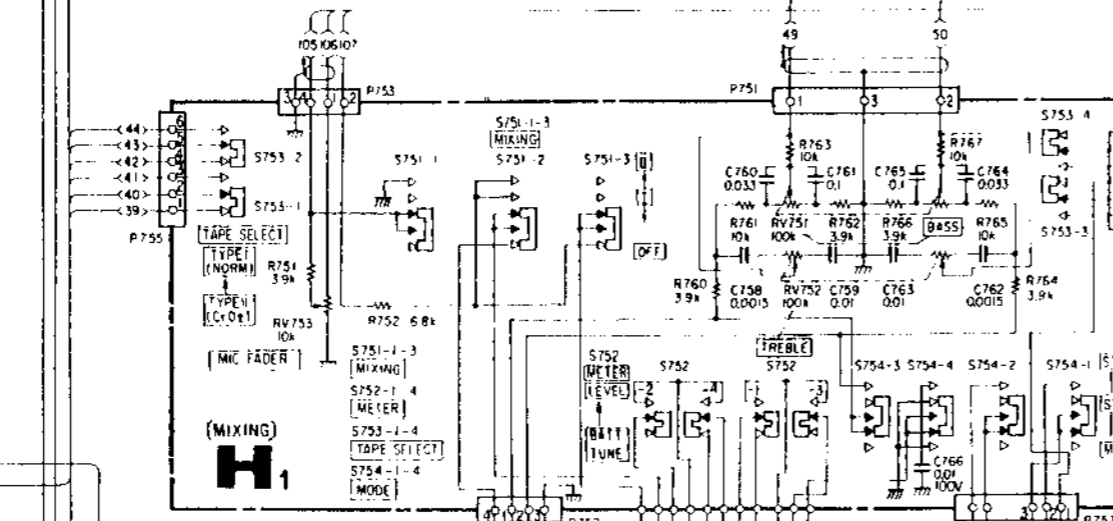
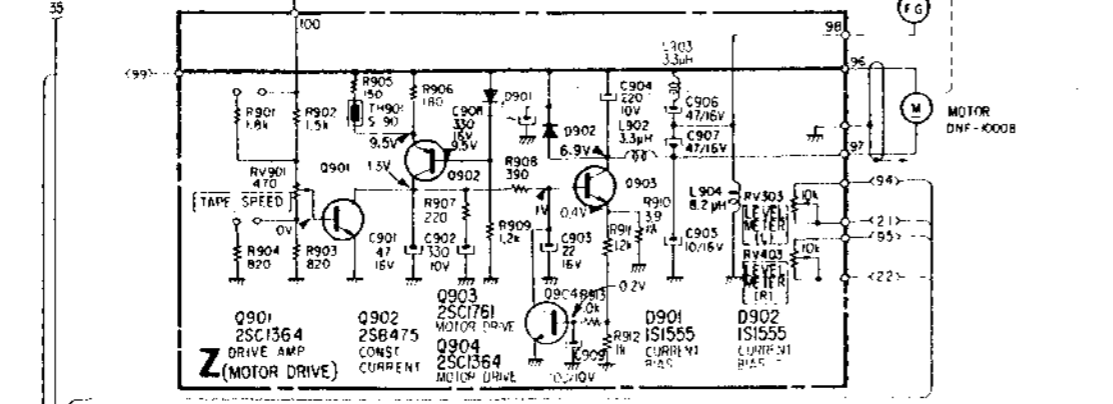
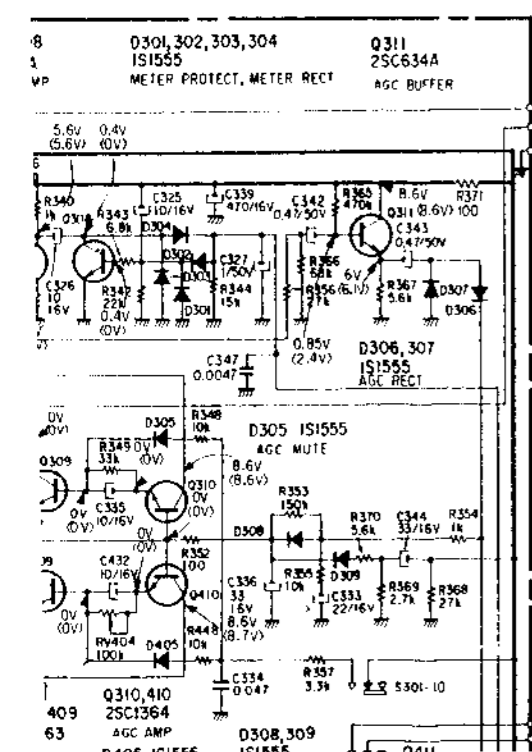
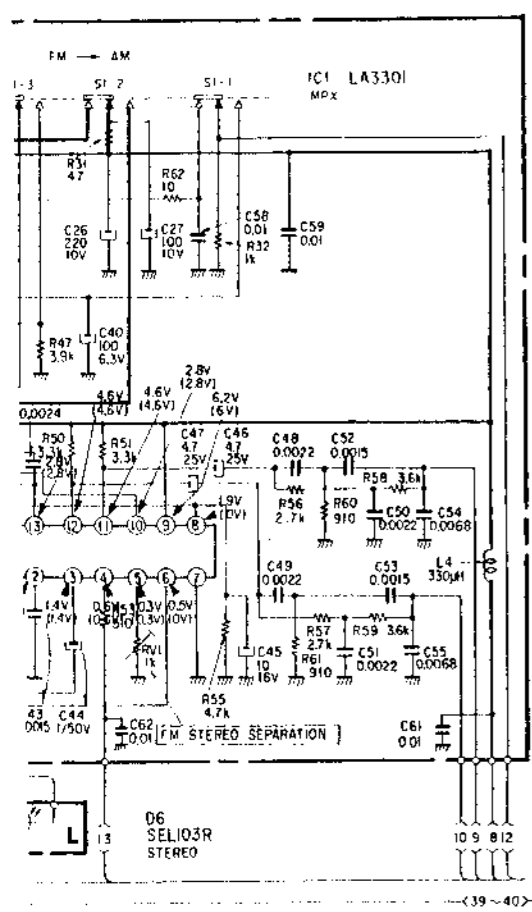
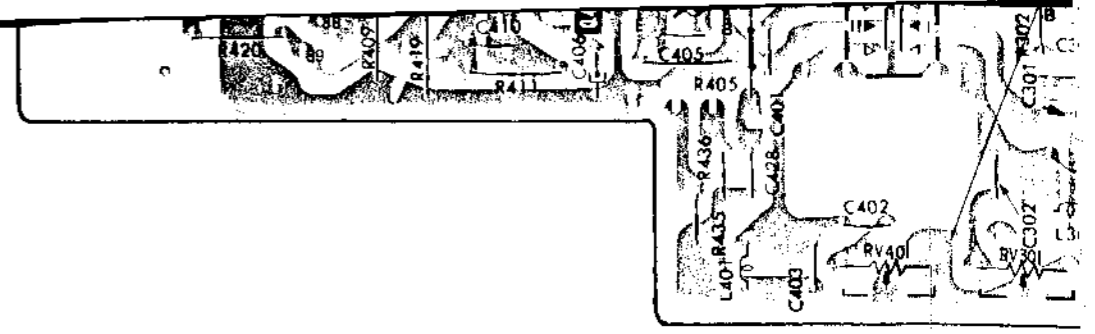
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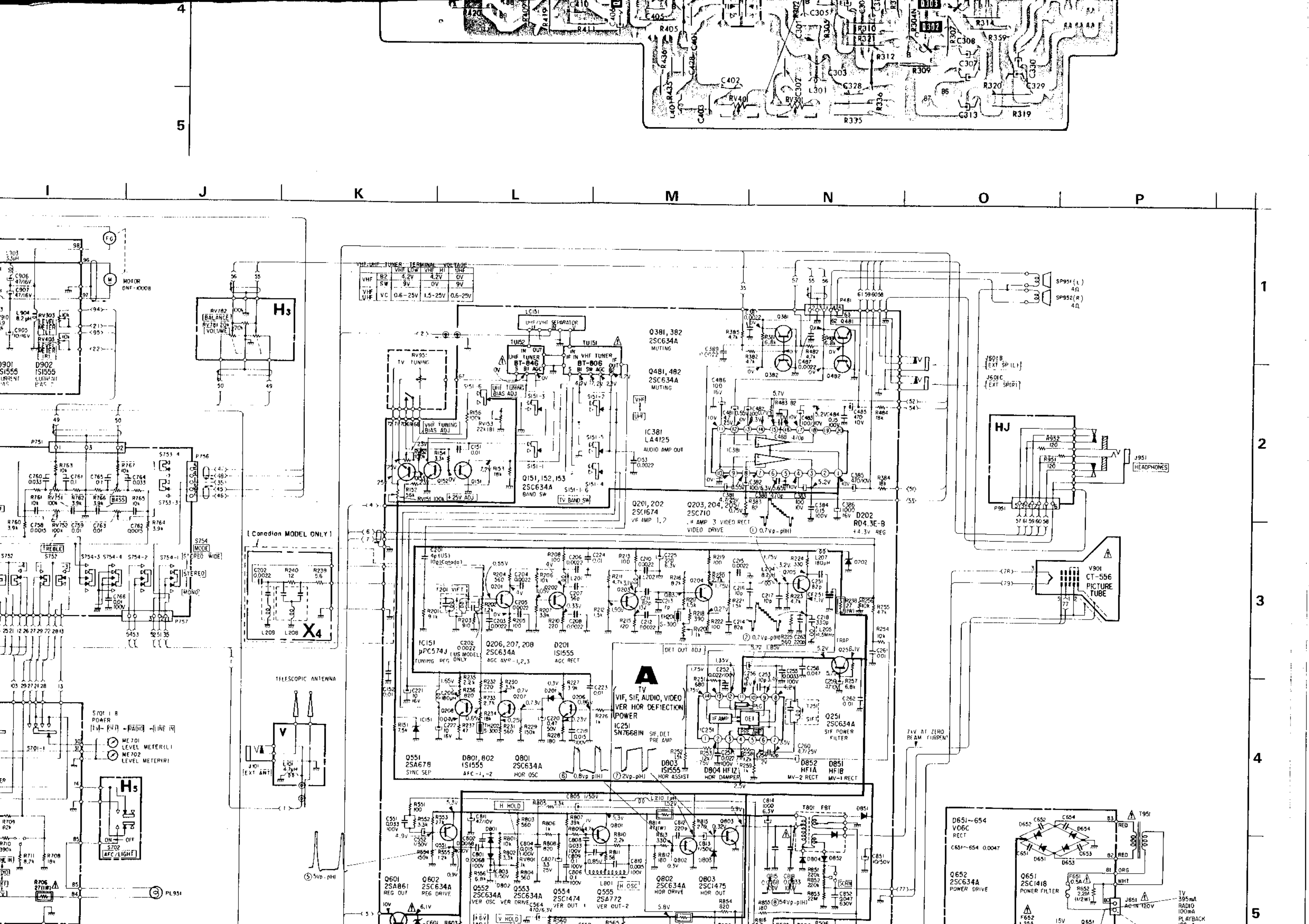
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CAUTION

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