

KV-2204E

RM-605

Chassis No. SCC-216A-A



TRINITRON®
COLOR TV

WARNUNG !!

UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, SOWIE MESSGERÄTE BEI REPARATUREN VOR ZERSTÖRUNG ZU SCHÜTZEN, DARF DAS GERÄT BEI ABGENOMMENER RÜCKWAND NUR ÜBER EINEN ENTSPRECHEND DIMENSIONIERTEN TRENNTRANSFORMATOR BETRIEBEN WERDEN.

SICHERHEITSHINWEIS FÜR KOMPONENTEN !!

DIE IN DEN SCHALTBILDERN, DEN IN EINZELTEILE AUFGELÖSTEN PERSPEKTIVISCHEN ZEICHNUNGEN UND DEN TEILELISTEN SCHRAFFIERT EINGEZEICHNETE UND DURCH DAS ZEICHEN ⚠ GEKENNZEICHNETE KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DEREN TEILENUMMERN IN DIESEM HANDBUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEZEIGT SIND.

AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN.

BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSSTÖRUNGEN BESTEHT.

DIE BESCHLEUNIGUNGSSPANNUNG DARF NICHT ERHÖHT WERDEN, DAMIT KEINE SCHÄDLICHEN RÖNTGENSTRAHLUNGEN ERZEUGT WERDEN. SIE SOLL $24.8 \pm 1.2\text{kV}$ BETRAGEN.

GEPRÜFT NACH RÖNTGENVERORDNUNG V.1.3.76:
ZULASSUNGSSCHEIN NR.: HH/7/79/RÖ.

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

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.

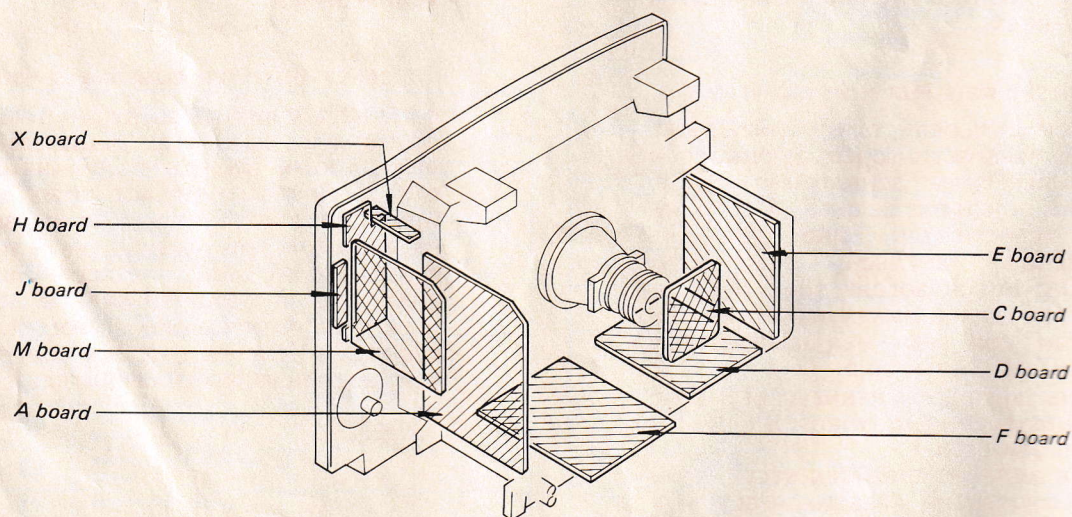
SONY®

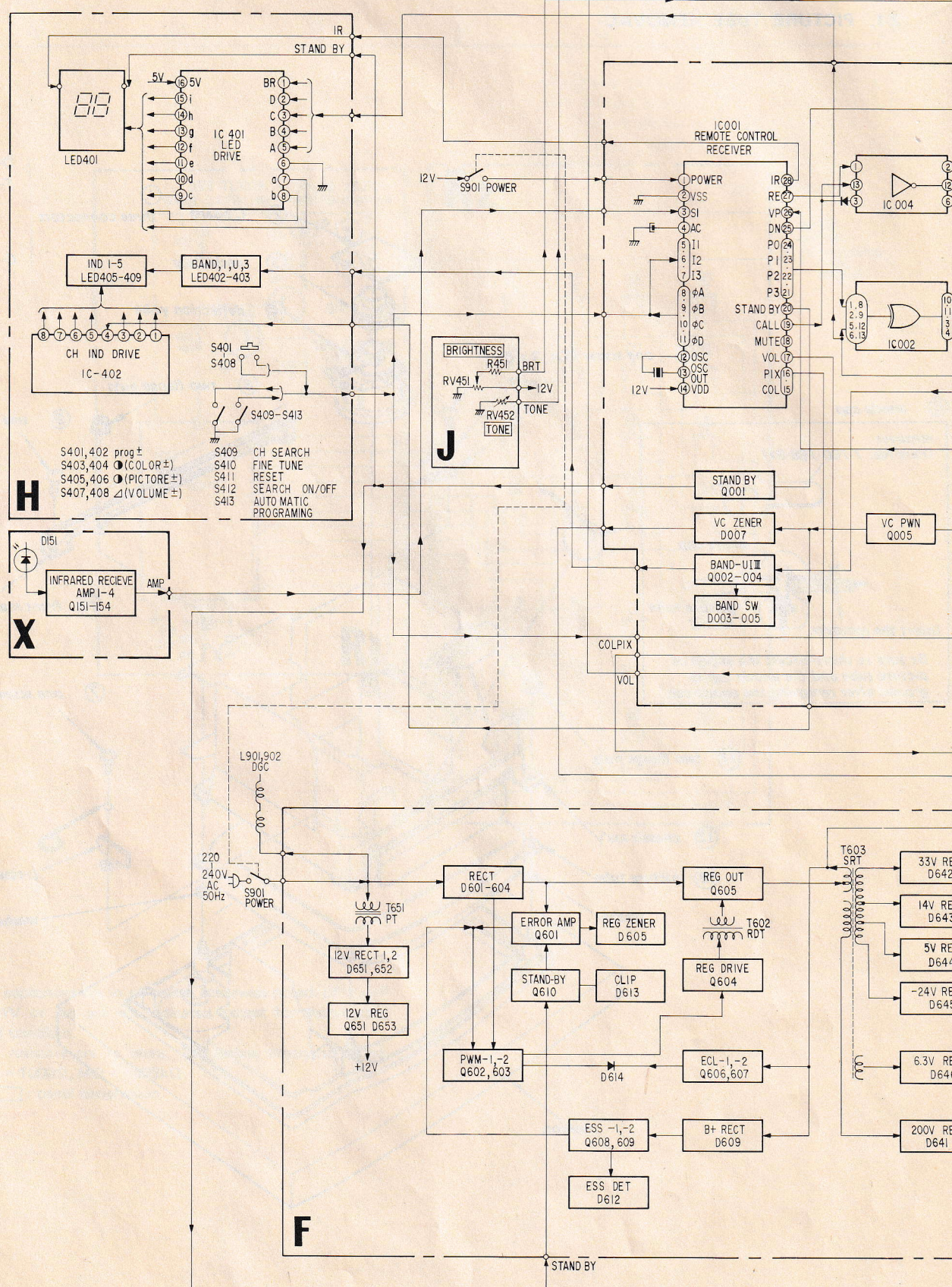
SERVICE MANUAL

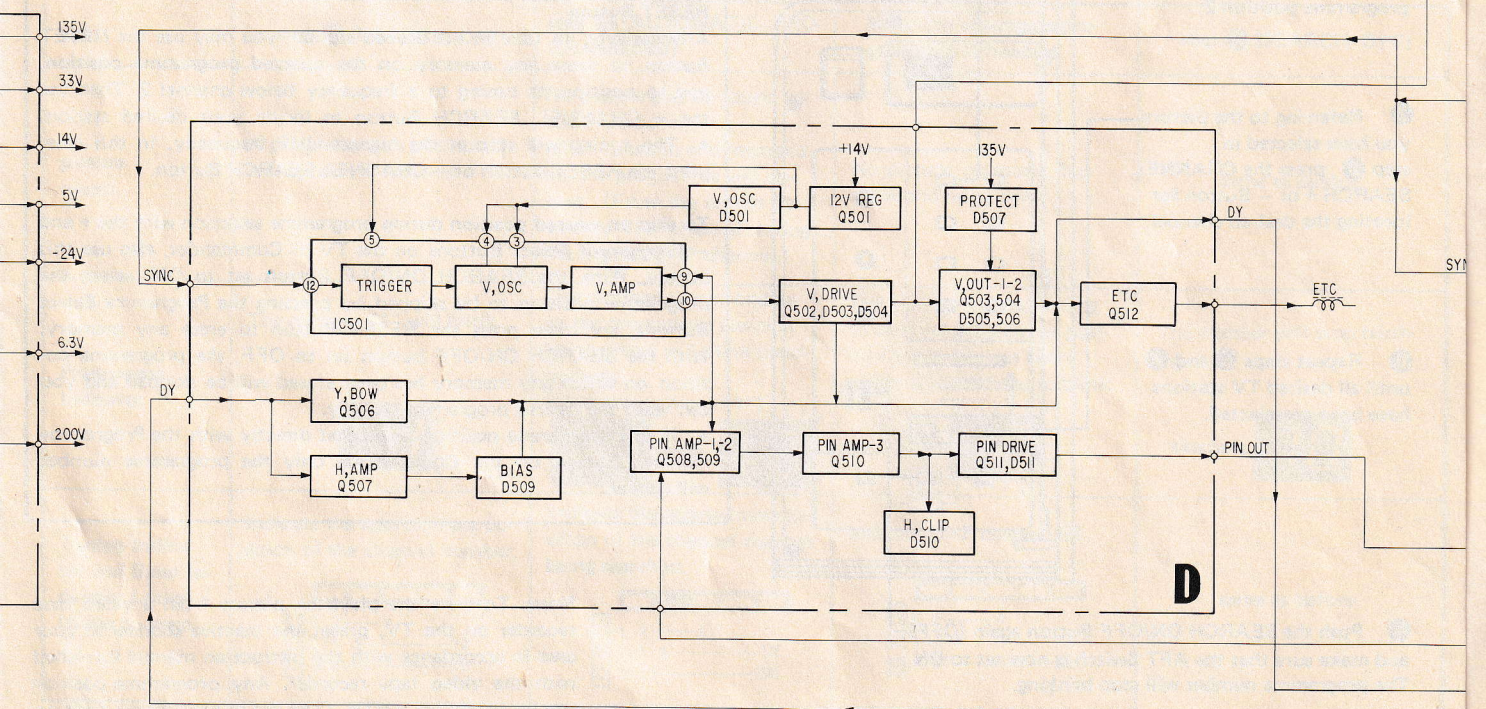
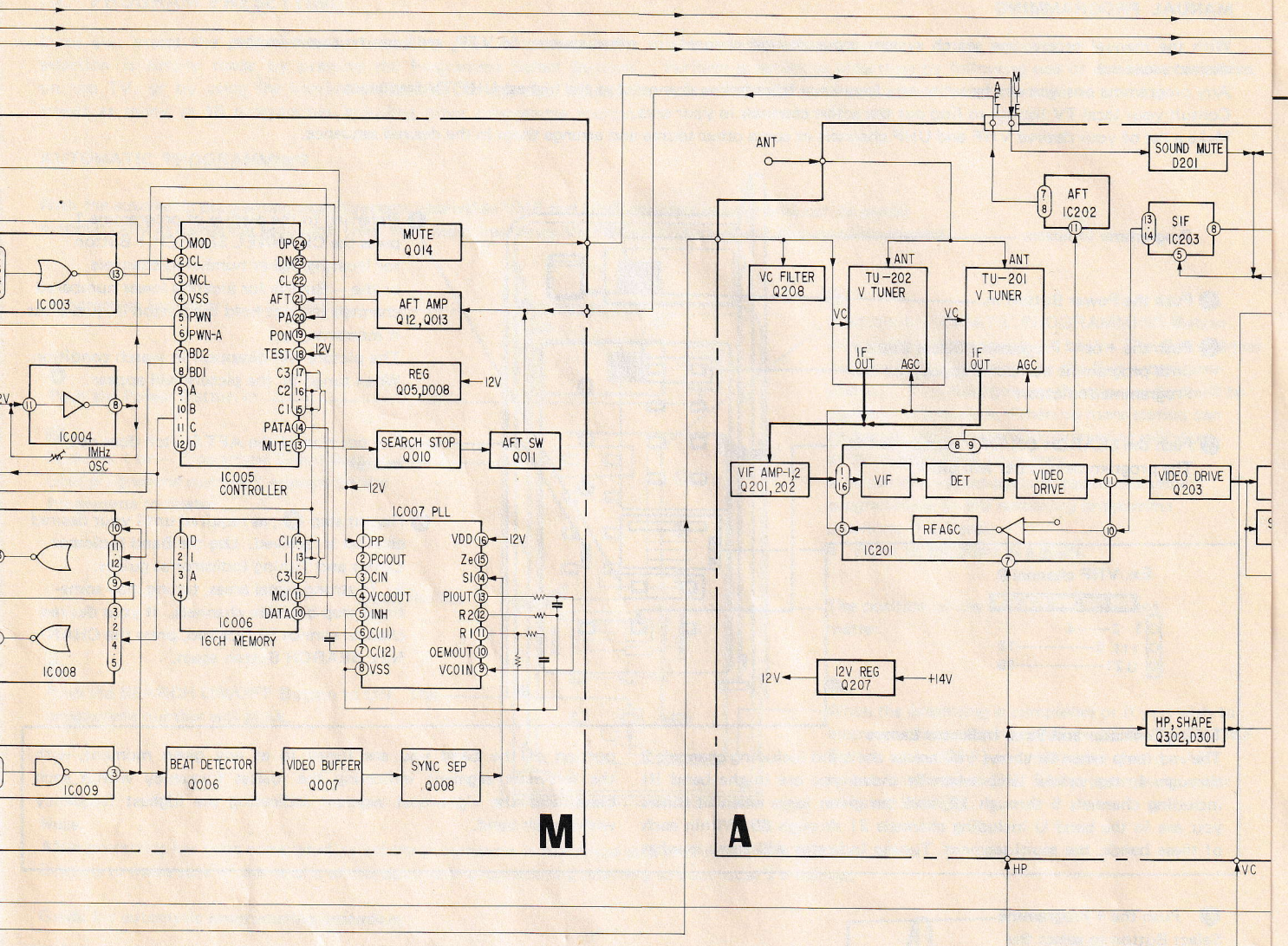
SPECIFICATIONS

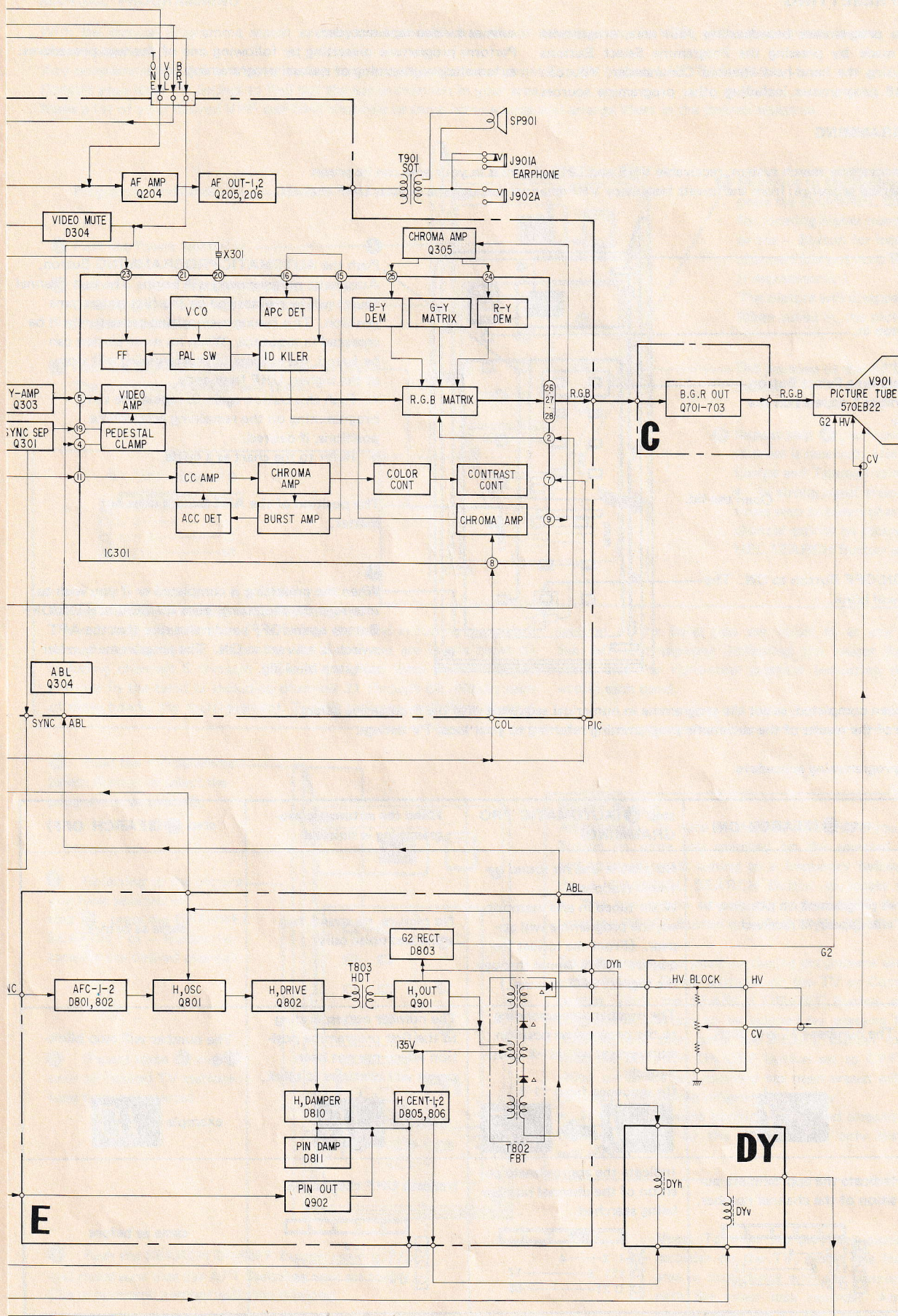
Television System:	CCIR system B, G and H	Anode Voltage:	24.5 kV at zero beam current
Color System:	PAL	Hochspannung:	24.5 kV bei 0 mA strahlstrom
Picture Tube:	56 cm, 22" (53.8 cm screen measured diagonally), 114° deflection TRINITRON system	Power Requirement:	220 — 240 V ac, 50 Hz
Semiconductors:	42 transistors, 1 FET, 7 ICs and 56 diodes	Power Consumption:	98 W ac 7 W ac (in stand-by condition)
Antennas:	75 Ω standard antenna socket	Dimensions:	Approx. 669 (w) x 459 (h) x 413 (d) mm 26 $\frac{3}{8}$ (w) x 18 $\frac{1}{8}$ (h) x 16 $\frac{3}{8}$ (d) inches
Channel Coverage:	VHF channels: E2-4 (BAND I) E5-12 (BAND III) UHF channels: E21-68 (BAND IV/V)	Net Weight:	Approx. 32 kg (70 lb 9 oz)
Intermediate		Accessories Supplied:	Remote commander RM-605 Earpiece (ME-20B) Instruction manual
Frequencies:	Picture i-f carrier: 38.9 MHz Color subcarrier: 34.47 MHz Sound i-f carrier: 33.4 MHz		
Sound System:	5.5 MHz intercarrier Output power: 2 W (at 10 % harmonic distortion) Speaker: 12 cm (4 $\frac{3}{4}$ inches) dia., 8 Ω		
Video System:	R, G, B cathode drive		
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) APC (automatic phase control) AVR (automatic voltage regulator)		

CIRCUIT BOARDS LOCATION









1-2. PROGRAM PRESETTING

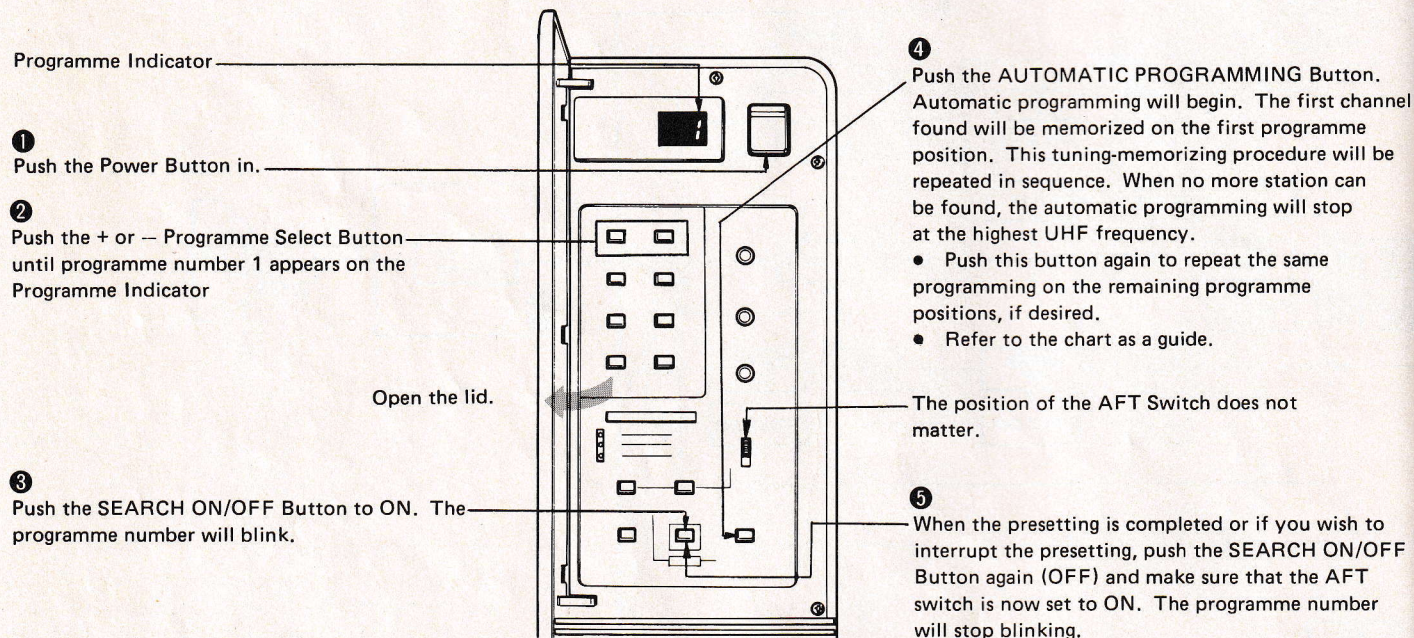
Once you preset the programmes broadcasting your area, programme selection is simply made by pressing the Programme Select Buttons on the TV. or by using the hand-held Remote Commander. You can preset as many as 16 programmes including other programme sources

such as a video tape recorder.

Perform programme presetting by following one of the two procedures: automatic programming or manual programming.

AUTOMATIC PROGRAMMING

With the automatic programme search system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.



Note:

After presetting has been completed, select the programme in numerical sequence with the Programme Select Buttons to make sure of the results of the automatic programming referring to your local TV listings.

Guide for automatic programming procedure

	step ③ (SEARCH ON)	step ④ (AUTOMATIC PROGRAMMING)	When the automatic programming is finished	step ⑤ (SEARCH OFF)
picture sound	A programme on position 1 will appear, if received.	No picture and no sound between stations. When tuned in and memorized, the programme will appear. (From the lowest frequency VHF channel through the highest UHF channel.)	No picture, no sound, but snow and noise only.	same as before
Programme Indicator	The number "1" will blink. 	The number corresponding to the programme position being preset will blink continuously. (In sequence from "1") 	The number corresponding to the first programme position which has not been preset will continue to blink. example	The number will stop blinking example
Tuning Indicator and Band Indicator Lamps (Refer to page 7.)	Indicate the approximate position of the channel number. 	Indicate the approximate position of the channel number being searched. 	Indicate UHF channel 68. 	same as before

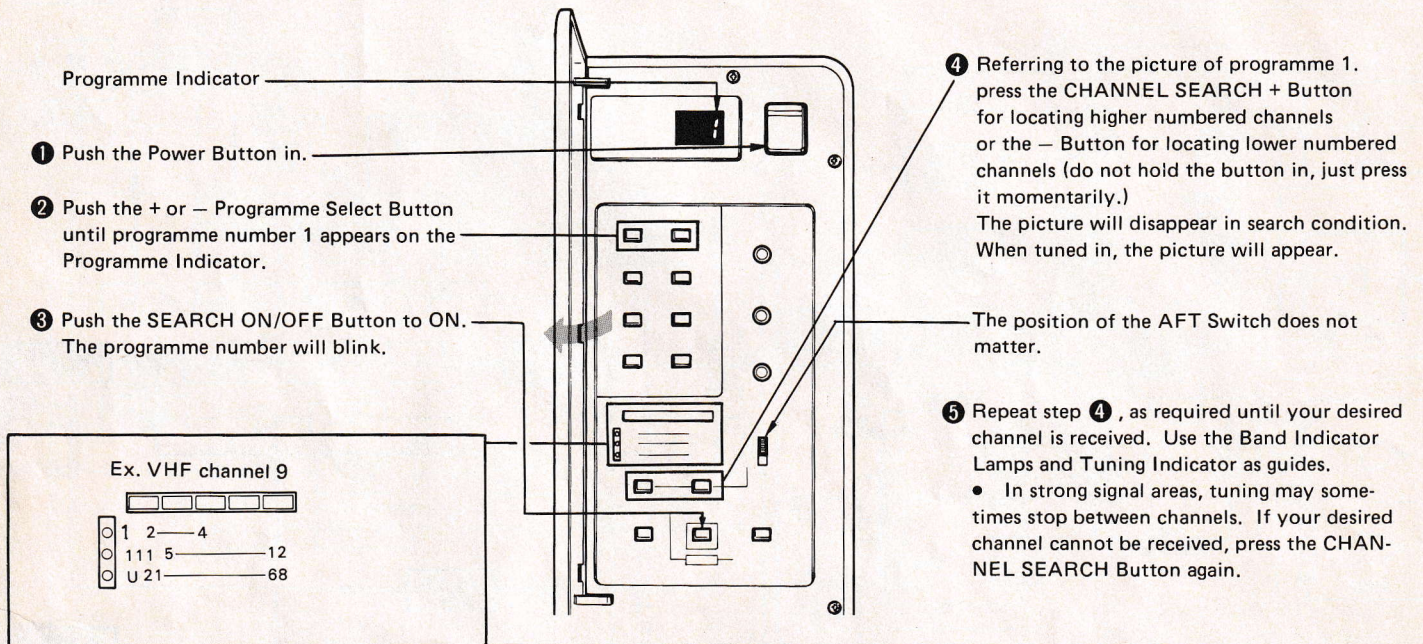
MANUAL PROGRAMMING

With the manual programme search system, your desired channels or other sources (a VTR, etc.) can be preset in the desired sequence.

Any programme position can be set to any frequency from below channel 2 to the highest UHF TV frequency.

Consult your local TV listings to find out the active channels in your area.

Make a list of your desired VHF and UHF channels or some other source and arrange them in the desired sequence.



Tuning Indicator and Band Indicator Lamps

The red lamp when lit shows you are in the band including channels 2 through 4, the yellow lamp when lit shows you are in the band III including channels 5 through 12, and the green lamp when lit shows you are in the band U including channels 21 through 68. Within each of these bands, the multi-segment. Tuning Indicator will show in what

portion of the band you are tuned to at any given moment, with the left-most segment indicating the lowest frequency within each band, and the right-most segment indicating the highest frequency within each band.

6 Push the + Programme Select Button to select the programme position 2.

7 Referring to the picture you have selected in step **5**, press the CHANNEL SEARCH + or - Button for locating the desired channel.

8 Repeat steps **6** and **7** until all desired TV stations have been preselected.

9 Push the SEARCH ON/OFF Button again (OFF), and make sure that the AFT Switch is now set to ON. The programme number will stop blinking.

RESET Button

Alternatively, to tune in the desired station, you may use the RESET Button to erase any memory on the selected programme position, and to position its tuning to a frequency below channel 2. Then use the + CHANNEL SEARCH Button to locate your desired station.

- The tuning will stop at the highest UHF frequency. In this case, press the RESET Button or - CHANNEL SEARCH Button.

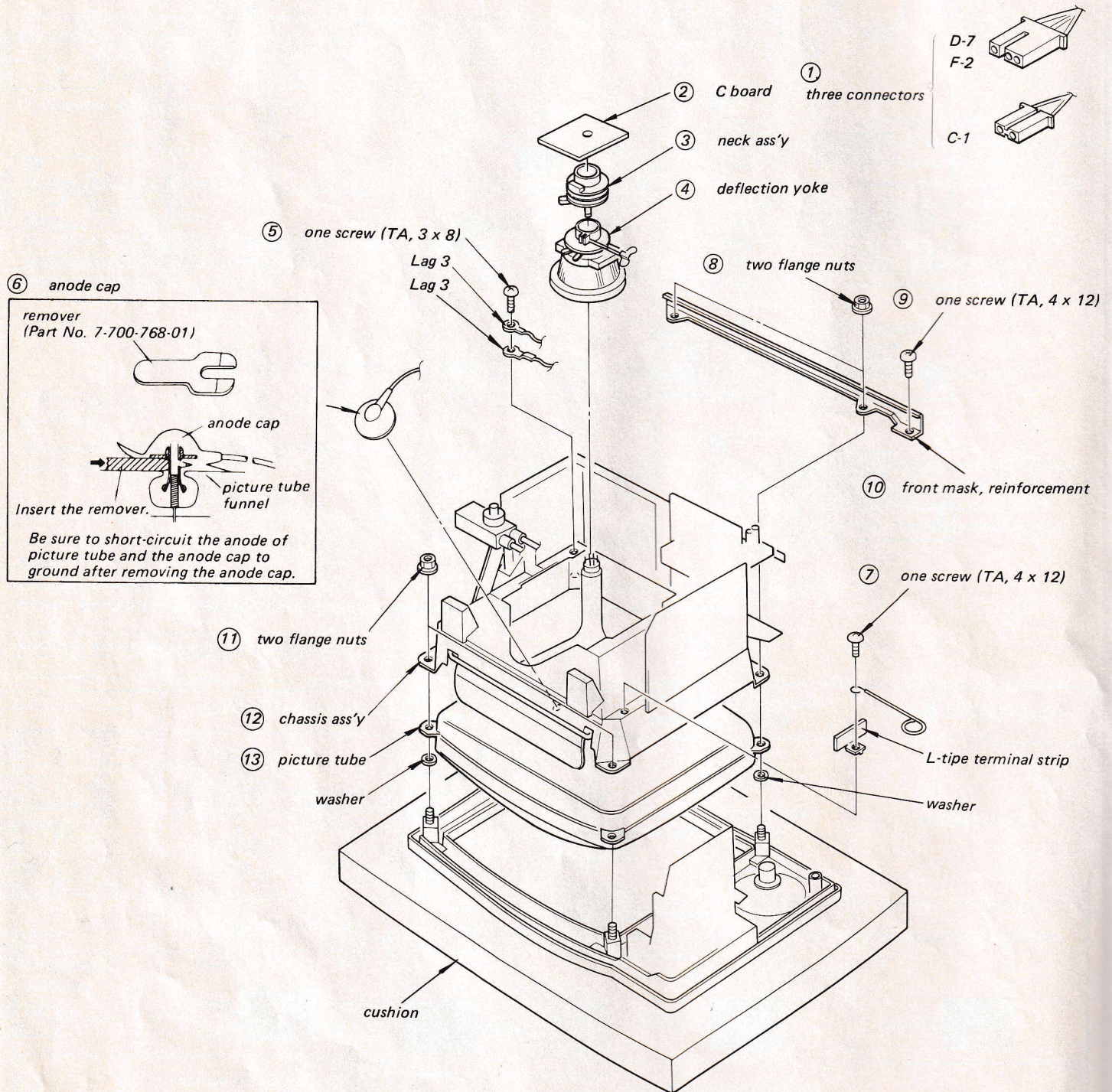
To skip an unused position during programme selection with the + and - Programme Select Buttons on the TV or Commander, also use this button. With the SEARCH ON/OFF Button set to ON, select the programme position to be skipped by pressing the Programme Select Buttons, and then press the RESET Button to erase any memory. With the SEARCH ON/OFF button set to OFF, the programme position on which any memory has been erased will be skipped and you can reach the desired programme quickly.

- If this programme position is selected directly with the Programme Number Button on the Commander, only the programme number will appear.

Note: To view the playback picture from a video tape recorder on the TV, preset the inactive channel in your area in accordance with the instruction manual furnished with the video tape recorder. Any programme position can be preset for a VTR. (The use of programme position 16 is recommended.)

SECTION 2 DISASSEMBLY

2-1. PICTURE TUBE REMOVAL



SECTION 3 SETUP ADJUSTMENTS

SCC-216A-A

KV-2204E

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

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

① (picture) control maximum
(Press ① + button)

BRIGHTNESS control maximum
(fully clockwise)

AFT switch ON

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke as far forward as it will go.
4. Position neck ass'y as shown in Fig. 3-2.
5. Disconnect leads ⑥ and ⑤ on the C board.
6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform red screen.
8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.

To get a uniform green screen, connect lead ⑥ on the C board and disconnect leads ⑤ and ④.

To get a uniform blue screen, connect lead ⑤ on the C board and disconnect leads ④ and ③.

After these checks, connect the leads ⑤, ④ and ③.

9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a - d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
11. Confirm that beam landing is correct when the receiver is faced in all directions.

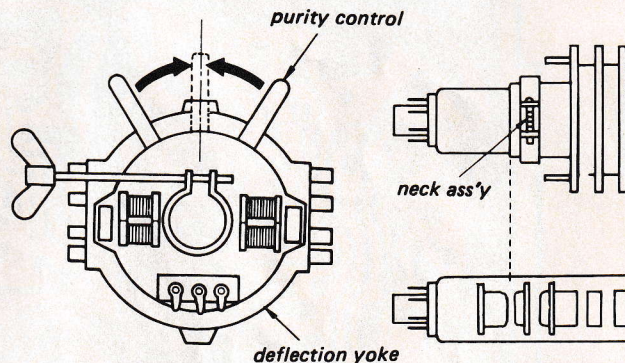


Fig. 3-1.

Fig. 3-2.

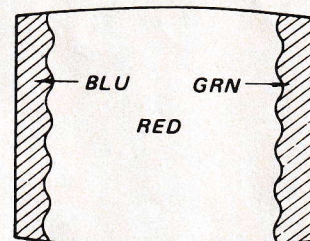


Fig. 3-3.

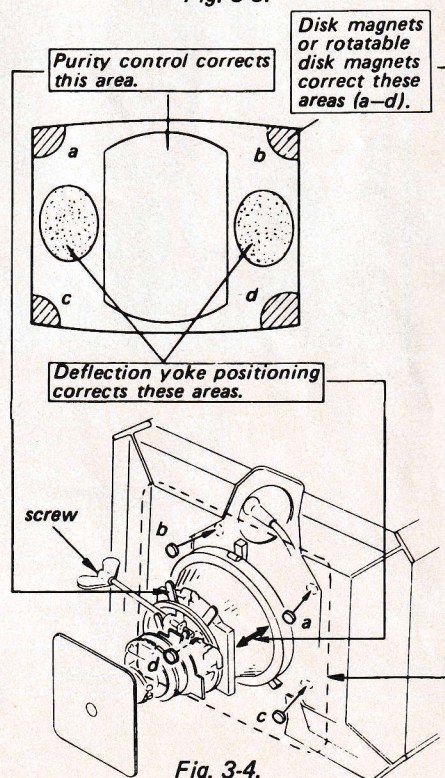
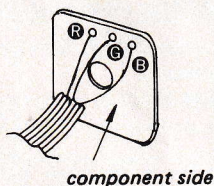
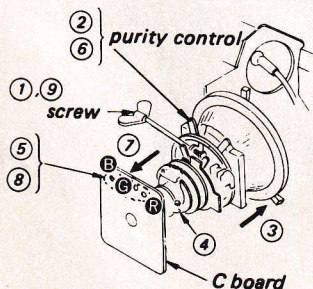


Fig. 3-4.



Note: The circled numbers (① - ⑨) show above steps.

3-2. CONVERGENCE

Preparation:

- Before starting this adjustment, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Turn BRIGHTNESS control fully counterclockwise.
- Feed in a dot pattern.

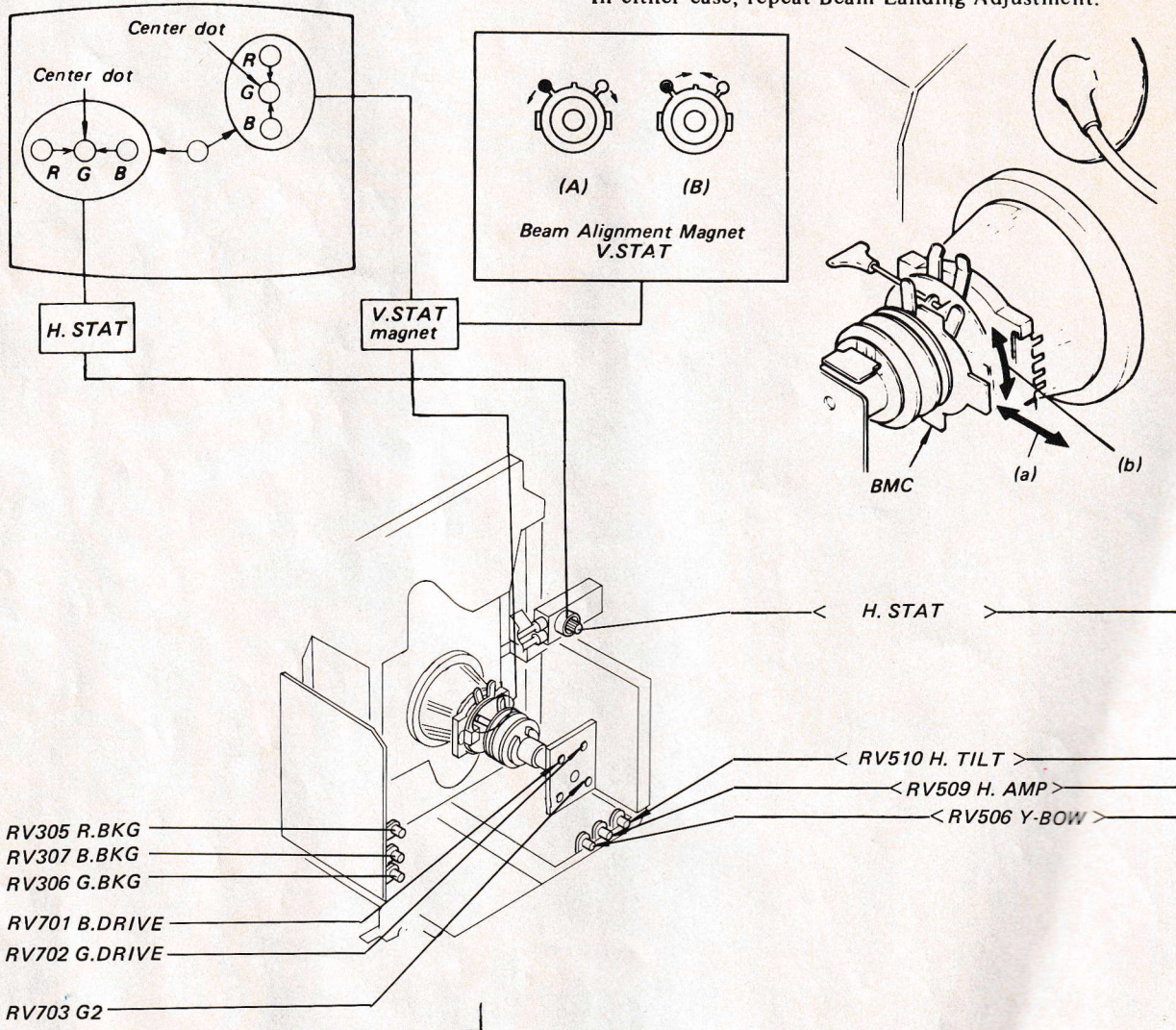
(1) Horizontal and Vertical Static Convergence

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

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.



3-3. WHITE BALANCE

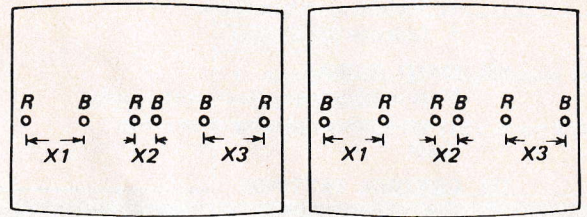
Feed in a cross-hatch pattern.

1. Turn BRIGHTNESS control fully counterclockwise and press **● -** (picture) button to obtain a minimum picture position.
2. Turn RV701 (B.DRIVE) and RV702 (G.DRIVE) fully clockwise.
3. Set RV305 (R.BKG), RV306 (G.BKG) and RV307 (B.BKG) to mechanical center.
4. Turn RV703 (G2) slowly to obtain a faintly visible cross-hatch. Note the color which first becomes visible by turning RV703. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of faint cross-hatch.
6. Turn BRIGHTNESS control fully clockwise and press **● +** (picture) button to obtain a maximum picture position. Observe the screen and adjust the DRIVE control for best white balance.
7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence

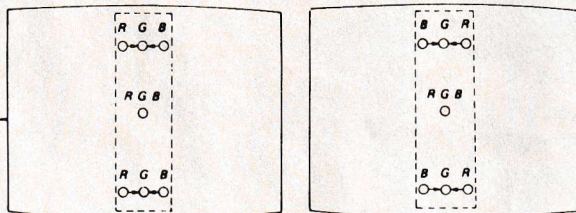
[Misconvergence at Both Sides of Screen.]

1. Set RV509 and RV510 to mechanical center.
2. Adjust H.STAT control so that green and blue dots coincide at center of screen.
3. Adjust RV510 so that X1 is equal to X3.
4. Adjust RV509 so that X2 is equal to X3.
5. Repeat above Steps 1 through 4 two or three times.

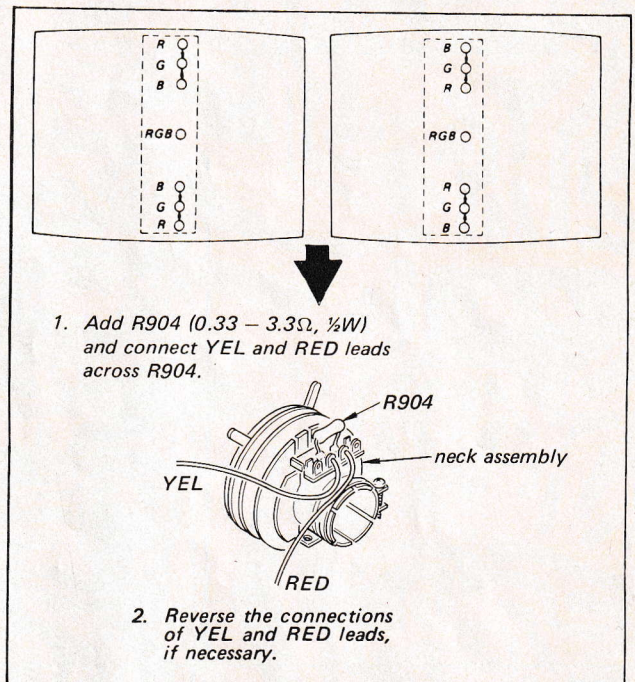


[Top and Bottom Misconvergence]

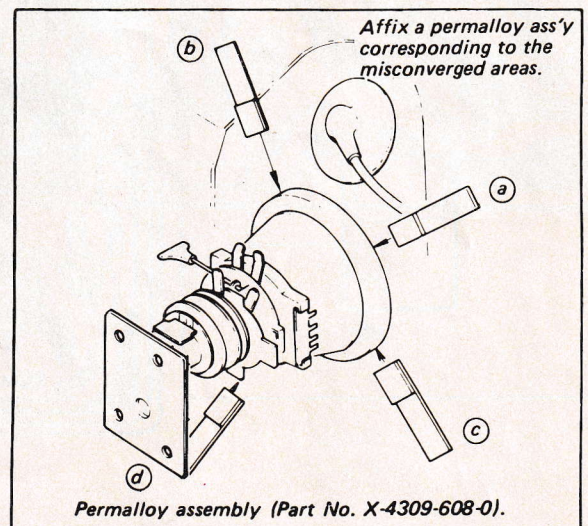
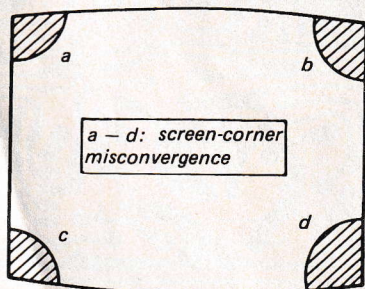
(A)



(B)



(3) Screen-corner Convergence



SECTION 4
CIRCUIT ADJUSTMENS

Note: (1) TEST EQUIPMENT REQUIRED

- 1. Oscilloscope
- 2. Voltmeter (VOM)
- 3. Color-bar/pattern generator
- 4. Variable auto-transformer
- 5. Isolation transformer

(2) INPUT SIGNAL

When making these adjustments, supply a cross-hatch, a color-bar or an off-air signal.

(3) CONTROL SETTINGS

Controls and switch should be set as follows
● (picture) control } set for best picture
BRIGHTNESS control } or press NORM. button
● (color) control } on remote commander.

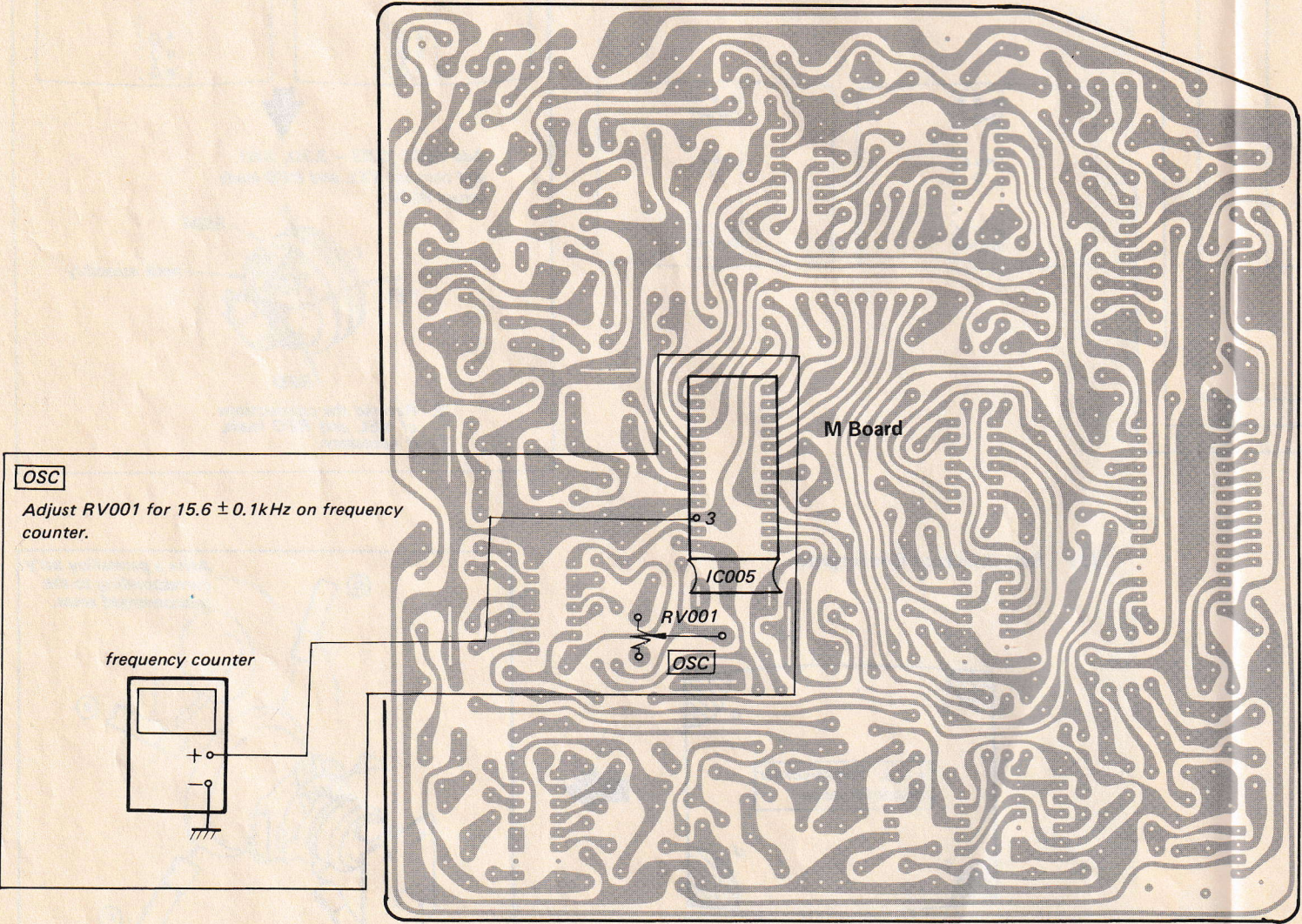
- (4) These adjustment should be performed with rated power supply voltage unless otherwise noted.

(5) ADJUSTMENT

Adjustment	Circuit board	Page
OSC	M	12
135V ADJ	F	13
PIN AMP AND PHASE	D	14
TOP AND BOTTOM PINCUTION		
FOCUS	C	15
H OSC	E	16
CW PHASE	A	17, 18
SIF		
AFT		
RF AGC		
1H DELAY		
APC (4.433MHz)		
SUB BRT		
SUB COLOR		

4-2.

4-1. M BOARD ADJUSTMENT

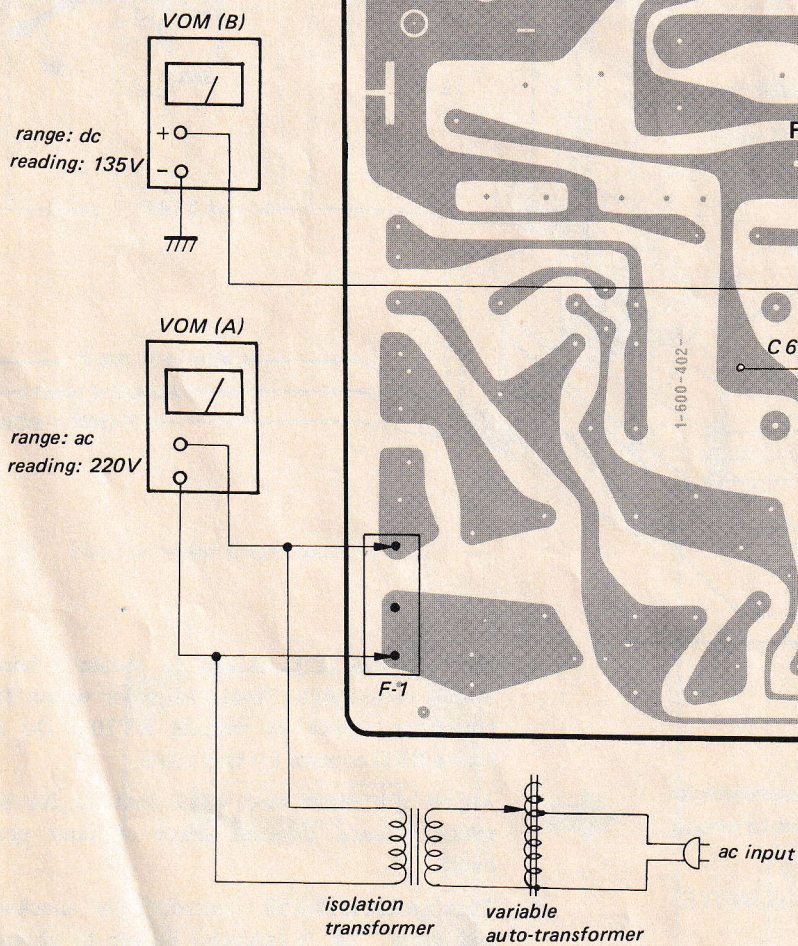


4-2. F BOARD ADJUSTMENT

4-3

135V ADJ

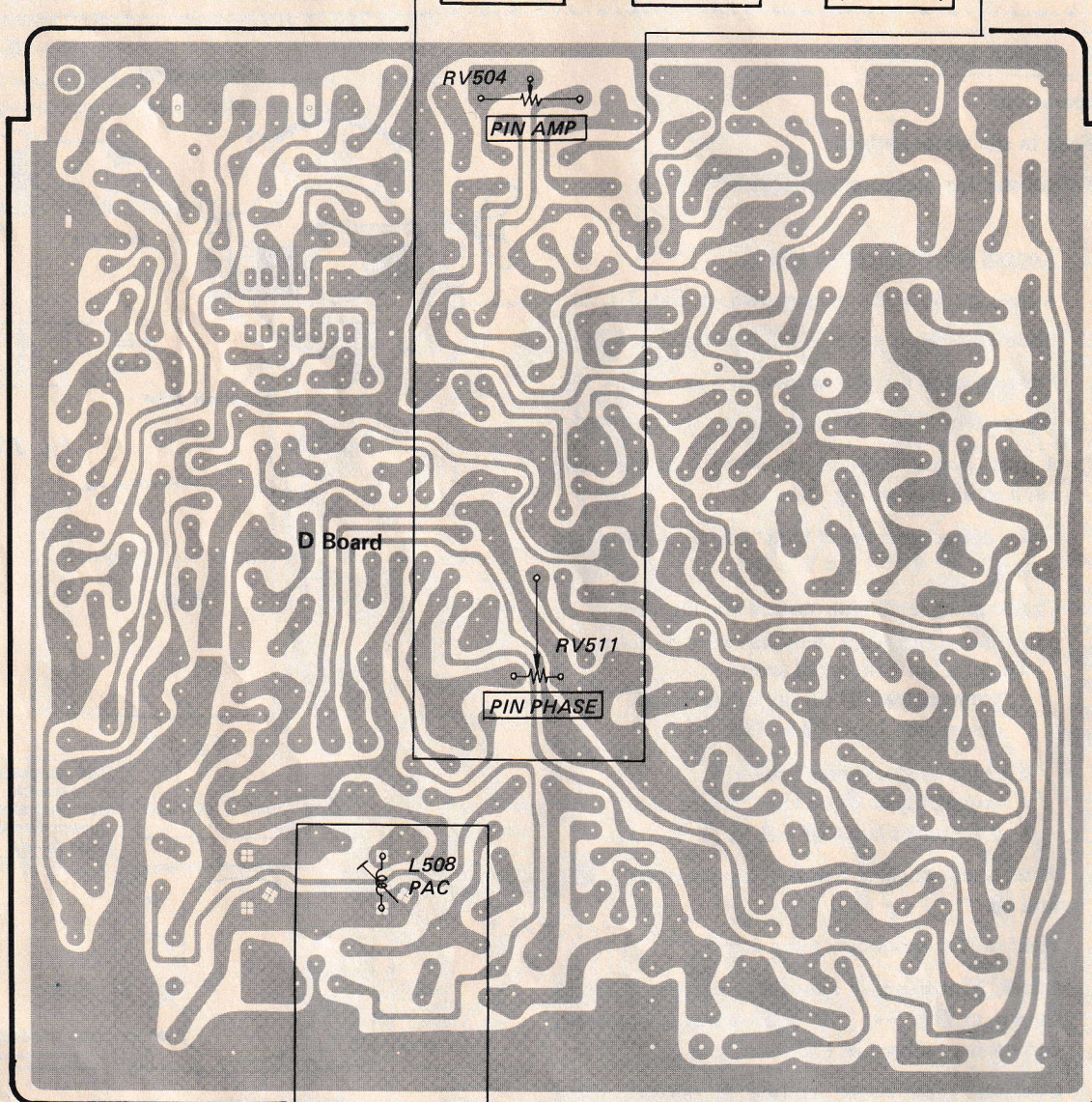
1. Adjust variable auto-transformer for 220V ac on VOM (A).
2. Adjust RV601 for 135V dc on VOM (B).



4.3. D BOARD ADJUSTMENTS

PIN AMP AND PHASE

Adjust RV504 and RV511 to make vertical lines straight as shown.

**TOP AND BOTTOM PINCUSHION**

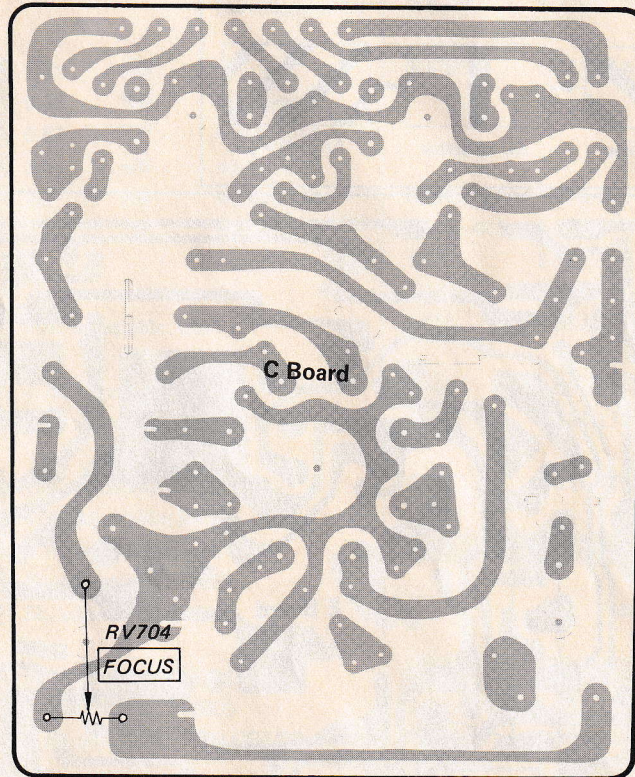
1. Feed in a cross-hatch pattern from the color-bar/pattern generator.
2. Adjust L508 (PAC) to make horizontal lines straight as shown.



4-4. C BOARD ADJUSTMENT

FOCUS

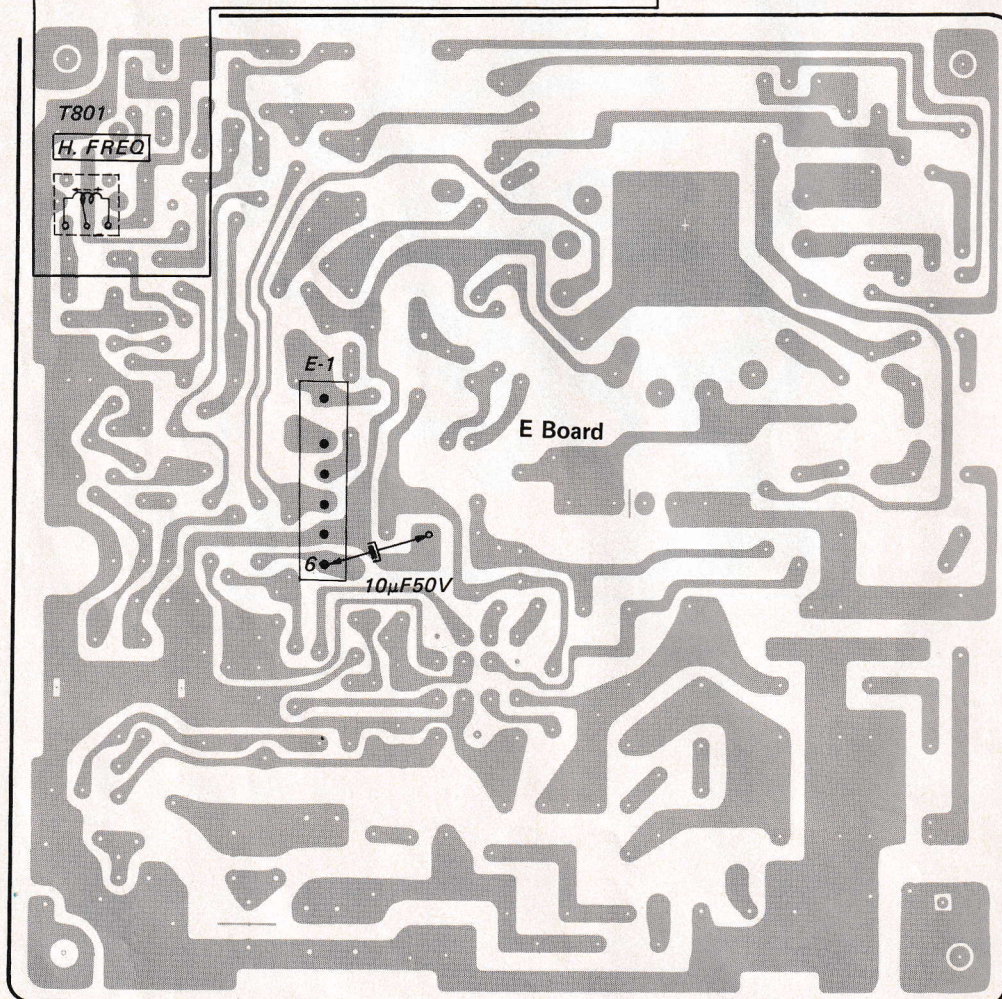
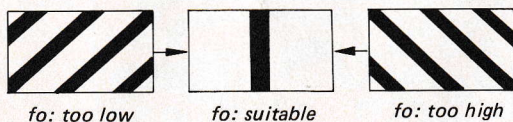
Adjust RV704 for a best focus..



4-5. E BOARD ADJUSTMENT

H. OSC

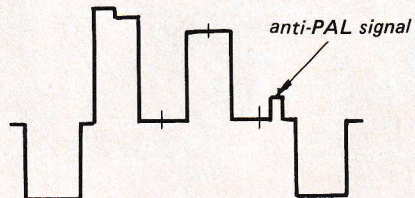
1. Connect a $10\mu\text{F}/50\text{V}$ electrolytic capacitor during this adjustment as shown.
2. Adjust T801 for stable picture as shown.



4-6. A BOARD ADJUSTMENTS

CW PHASE

1. Feed in a special color-bar signal.
2. Connect an oscilloscope (B) to the pin 7 of A-8 connector.
3. Adjust RV304 so that the anti-pal signal of the red output is disappeared.

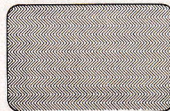
**SIF**

1. Tune in an off-air signal.
2. Adjust T203 and T206 for a maximum clear sound.

T206
SIFTT203
SIFT**AFT**

1. Tune in an off-air signal.
2. Set the AFT switch to OFF.
3. Press the SEARCH + button to obtain the 1.07MHz beat.
4. Press the SEARCH - button to obtain the point where the 1.07MHz beat just disappears.
5. Set the AFT switch to ON. The 1.07MHz beat will appear or "no color" will occur, if the adjustment is improper.
6. Set T205 to the point where the 1.07MHz beat just disappears or normal color is obtainable.

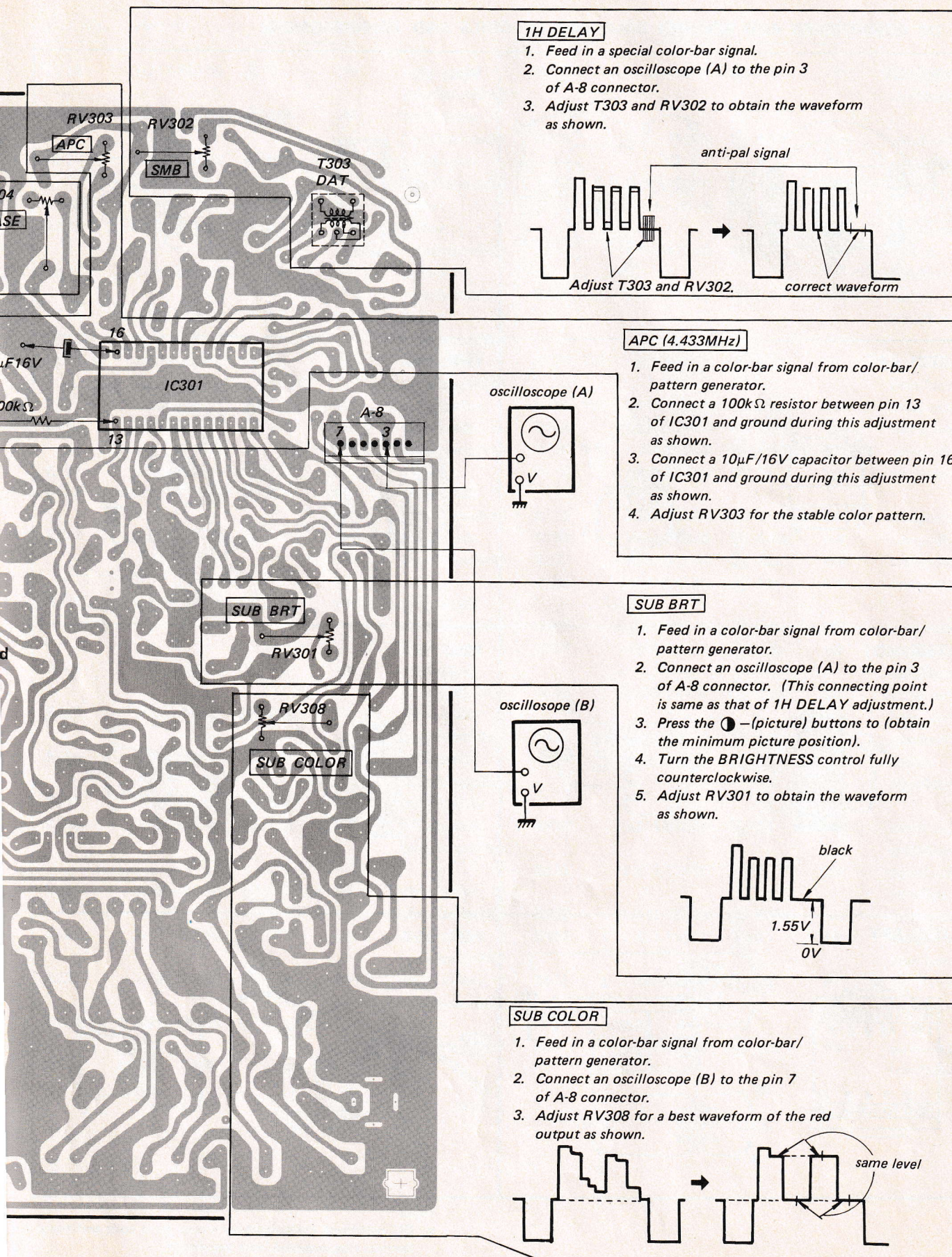
1.07MHz beat

T205
AFT-2**RF AGC**

1. Tune in an off-air signal.
2. Adjust RV201 so that snow-noise and cross-modulation just disappear from the picture.

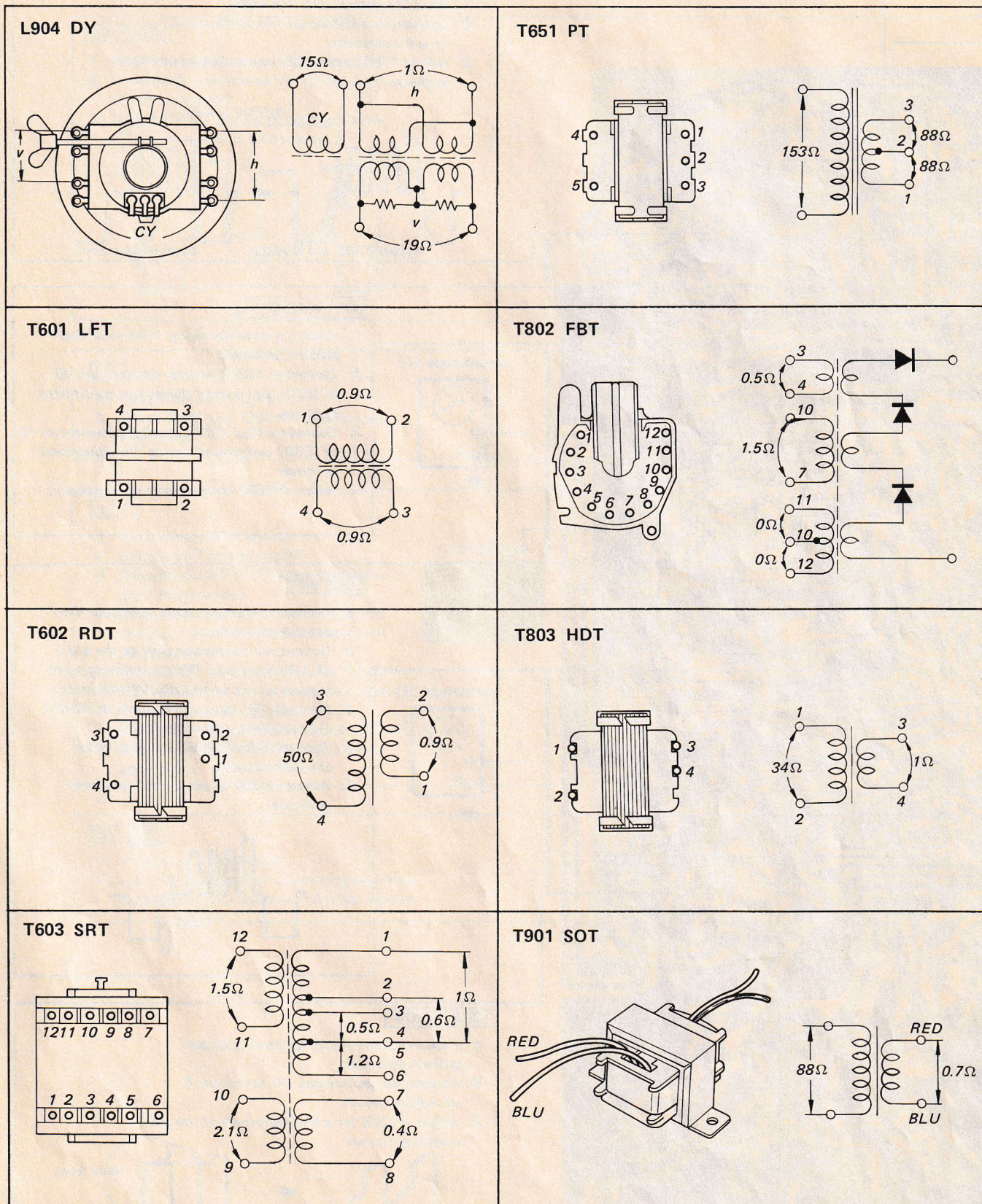
RV201

RF. AGC



SECTION 5 DIAGRAMS

5-1. DC RESISTANCES AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

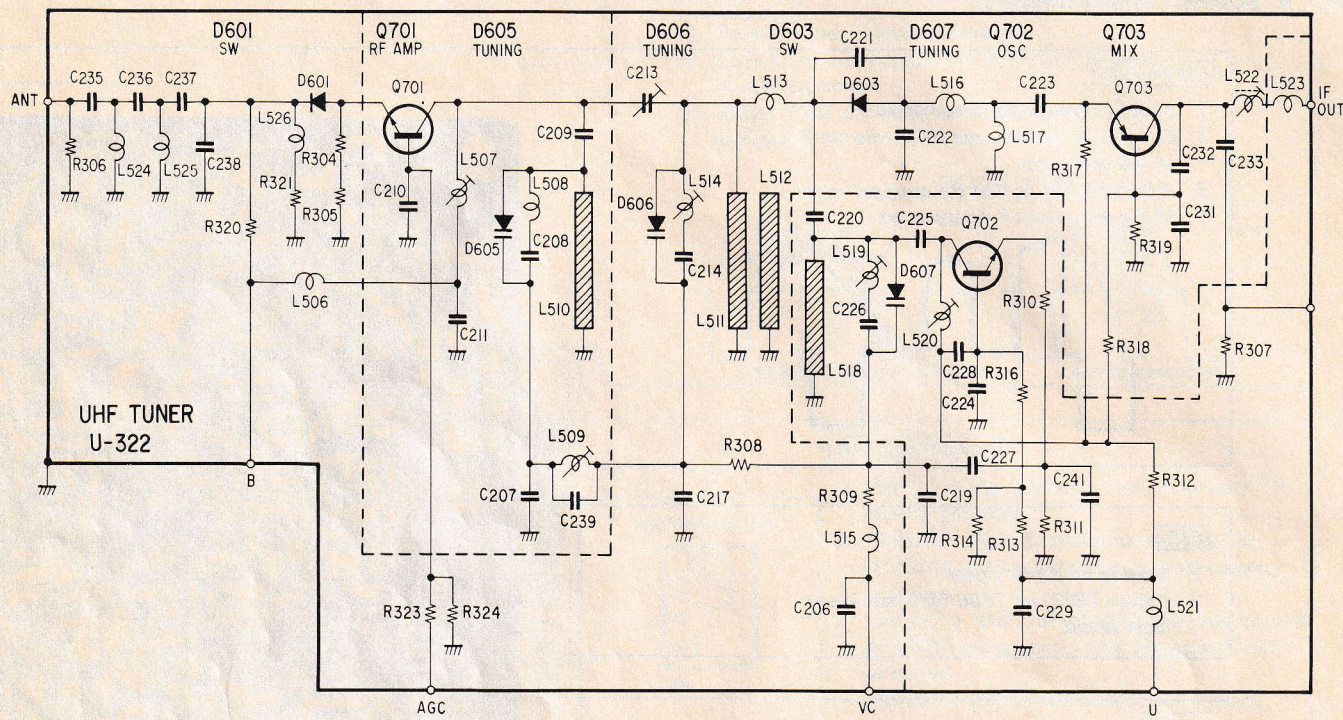


Note:

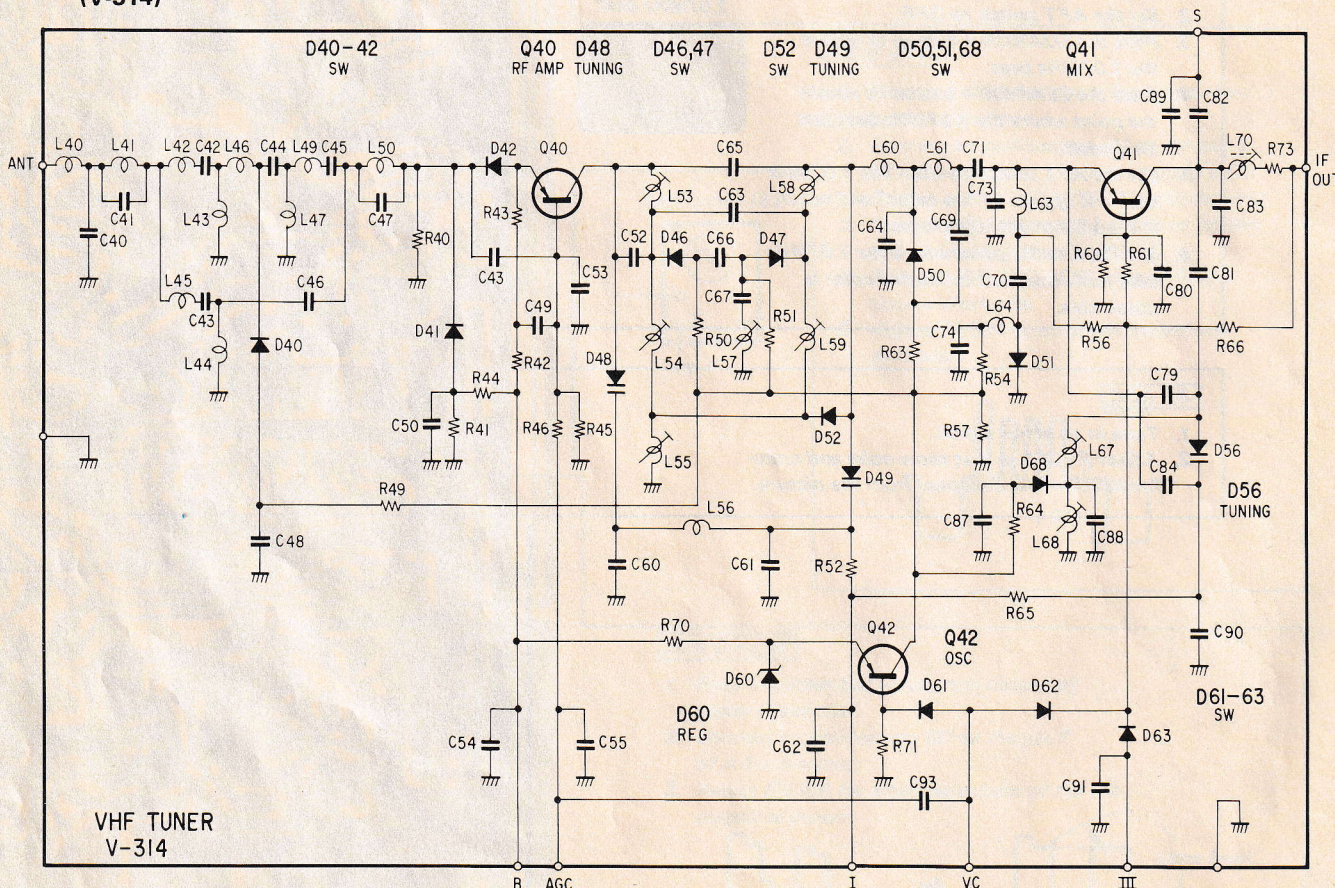
- DC resistance measurements shown with coils and transformers disconnected from the circuit.

5-2. VHF AND UHF TUNER SCHEMATIC DIAGRAM

— UHF Tuner —
(U-322)



— VHF Tuner —
(V-314)



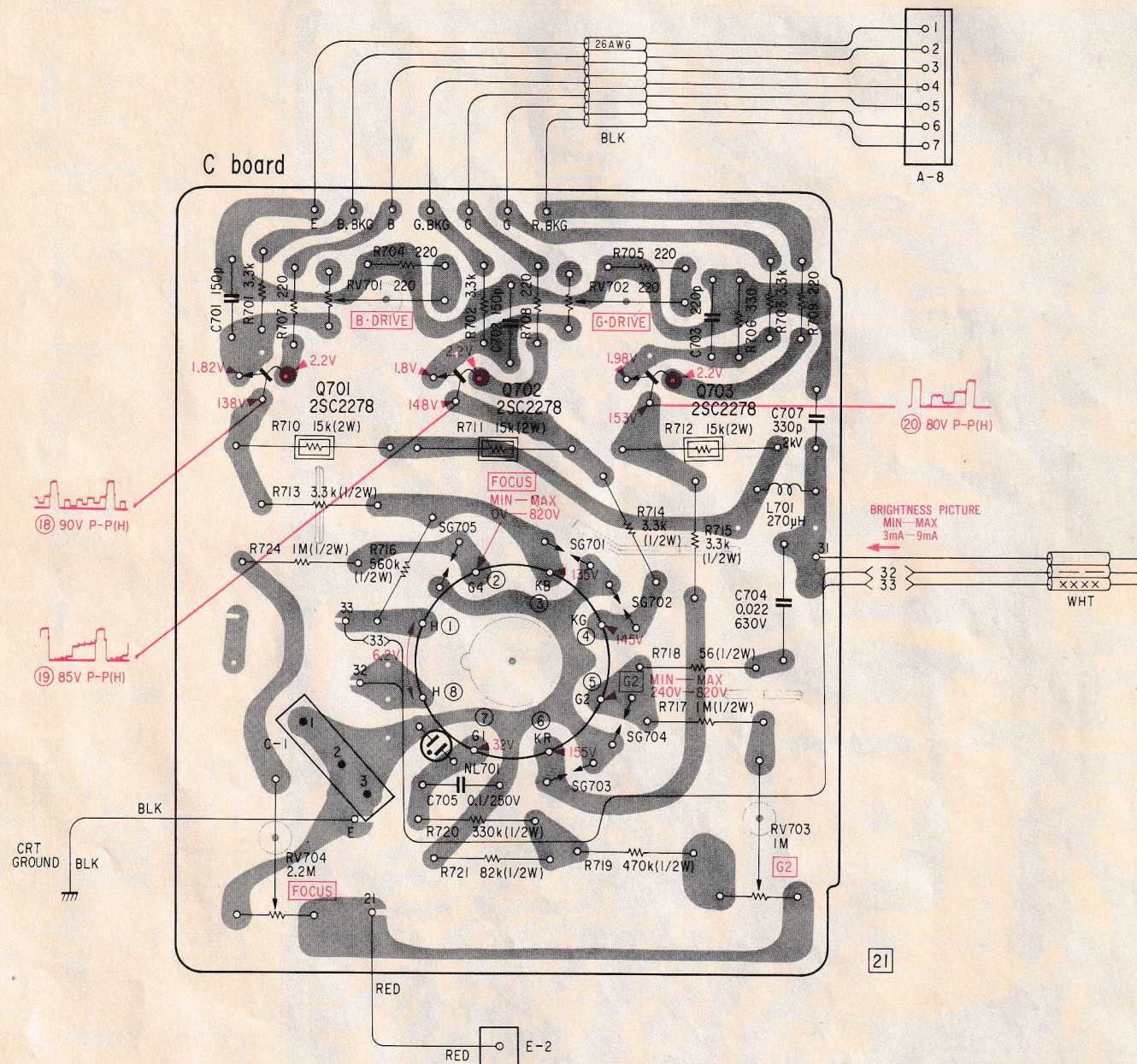
Note: Reference number on this diagrams are same as that of the schematic diagram on page 37 to 40, but parts are not same and these parts on tuners are not included in the Electrical Parts List (Page 46 to 53)

— Conductor Side —

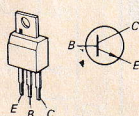
[R,G,B, OUT]

C

— C Board —



2SC2278



Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : nonflammable resistor.

[COUSTOMER CONTROL]

— H Board —

H board

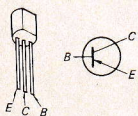
Note:

- —: parts extracted from the component side.
- —: parts extracted from the conductor side.

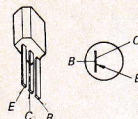


- F Board -

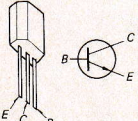
2SA639S



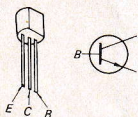
2SA1027R



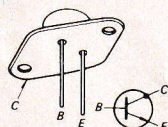
2SC634A



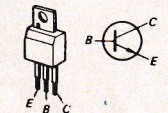
2SC1364
2SC1670



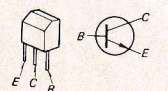
2SC1413A



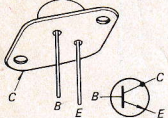
2SC1962



2SD571

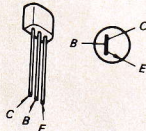


BU500

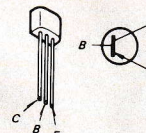


Q	D	ADJ
602		
610	613	
603	605	RV601
608		
601	606	
609		
	612	
604	615	
607		
	614	
606	609	
	641	
	646	
	645	
	642	
	643	
	644	
	653	
651		
	652	
	651	
	602	
	604	
	601	
	603	
Q	D	ADJ

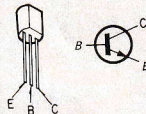
FRB828B



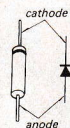
FRB829



ZTX450



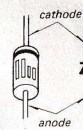
10E2
1S1555



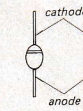
1N4003
BA158
BY253
BY299
RGP15J



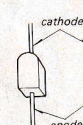
EQB01-12Z
EQB01-13



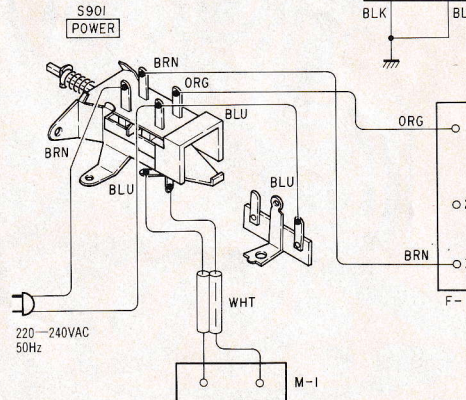
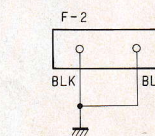
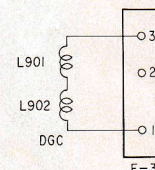
GH3F
U05G



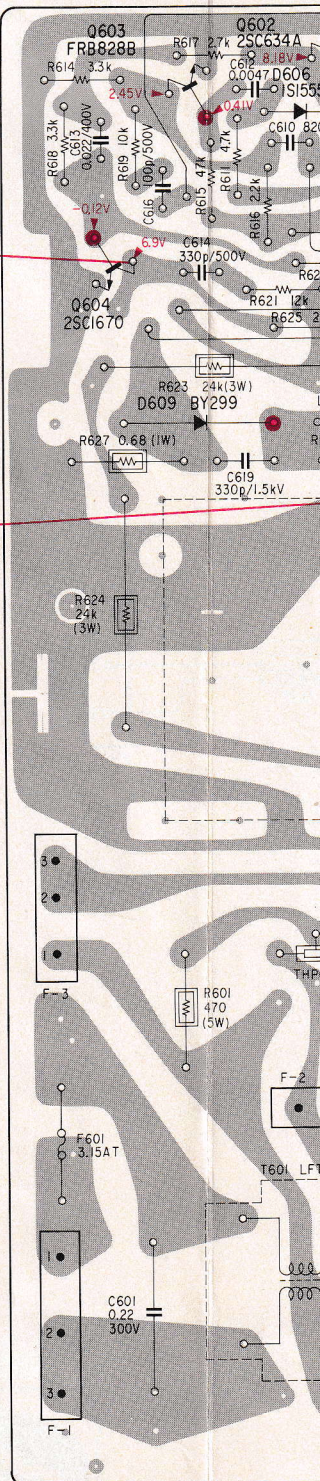
HF1A



RD12E-B2TP
RD13E-82Z
RD39E-84TP
RD39E-84TZ



F board



F

[RECT, PWM POWER, SUPPLY,
ESS, ECL, 12V REG]

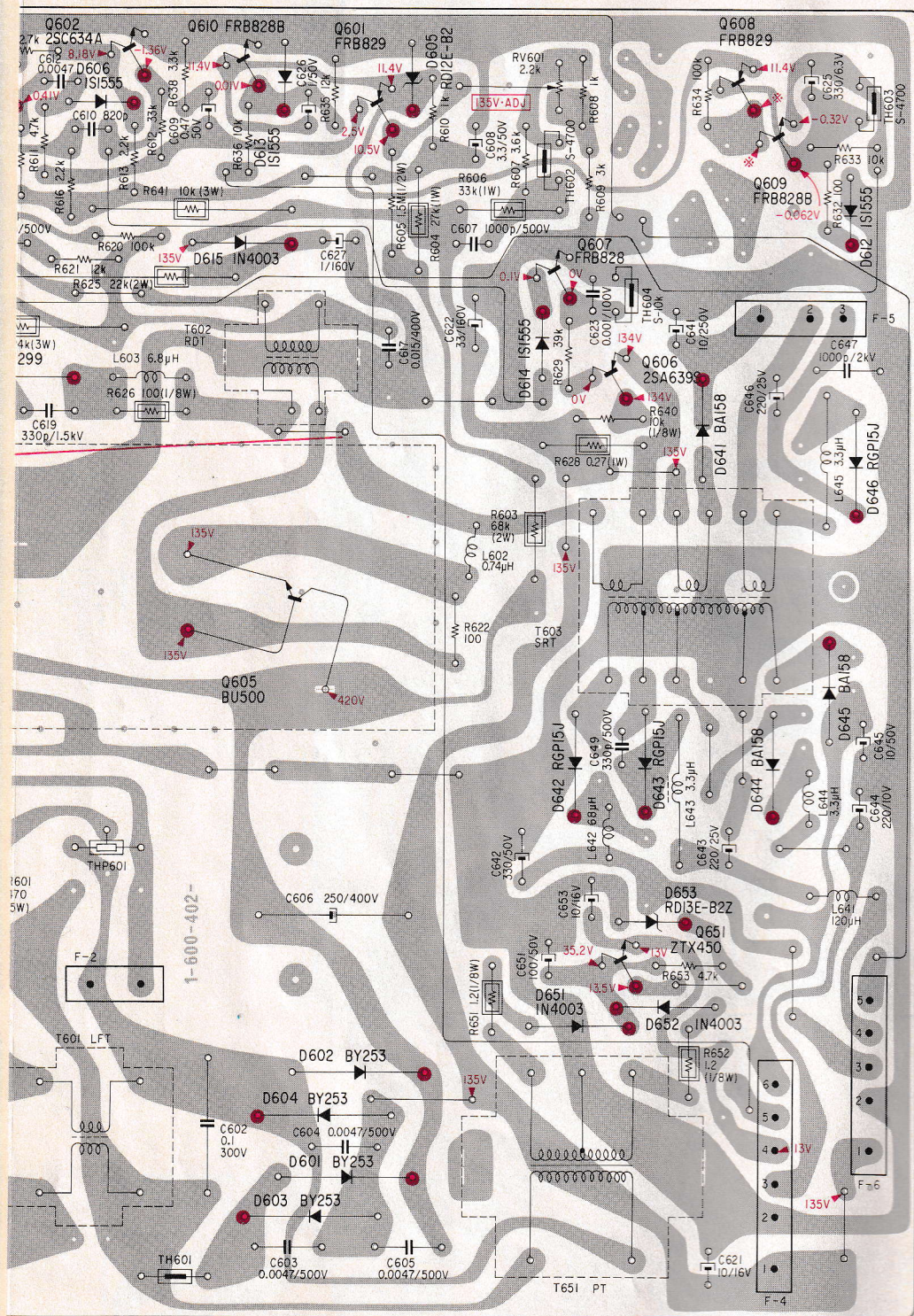
Note: • ○ : parts extracted from the component side.
 • ● : parts extracted from the conductor side.
 •  : nonflammable resistor.

E

F

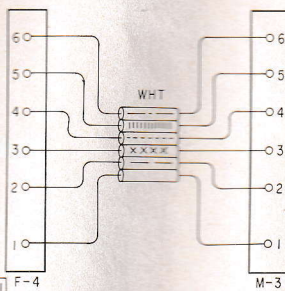
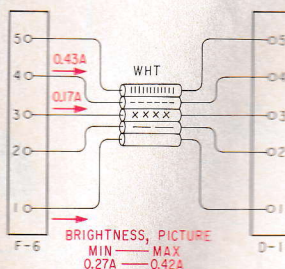
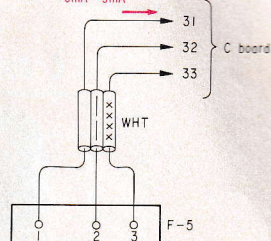
G

H



A-1245-108-A

BRIGHTNESS, PICTURE
MIN — MAX
3mA — 9mA

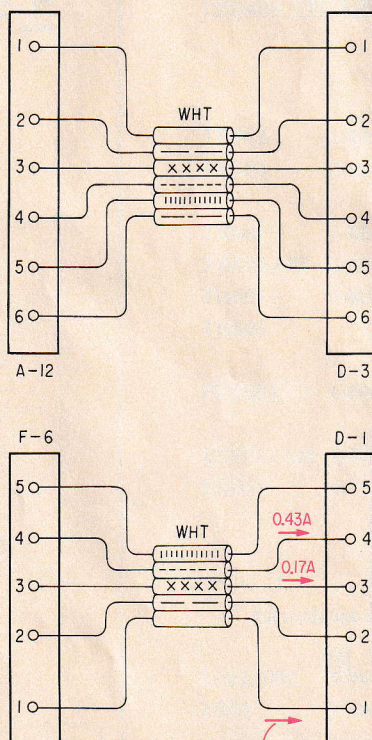


— D Board —

D

IC, Q	D	ADJ
507	509	RV503 RV501 RV502 RV504 RV506 RV509 RV510
506	501	
501 IC501	508	
510	510	
512	512	
511	511	RV511 RV505
509	507	
502	503	
508	504	
503	505	
512	506	
504		
IC, Q	D	ADJ

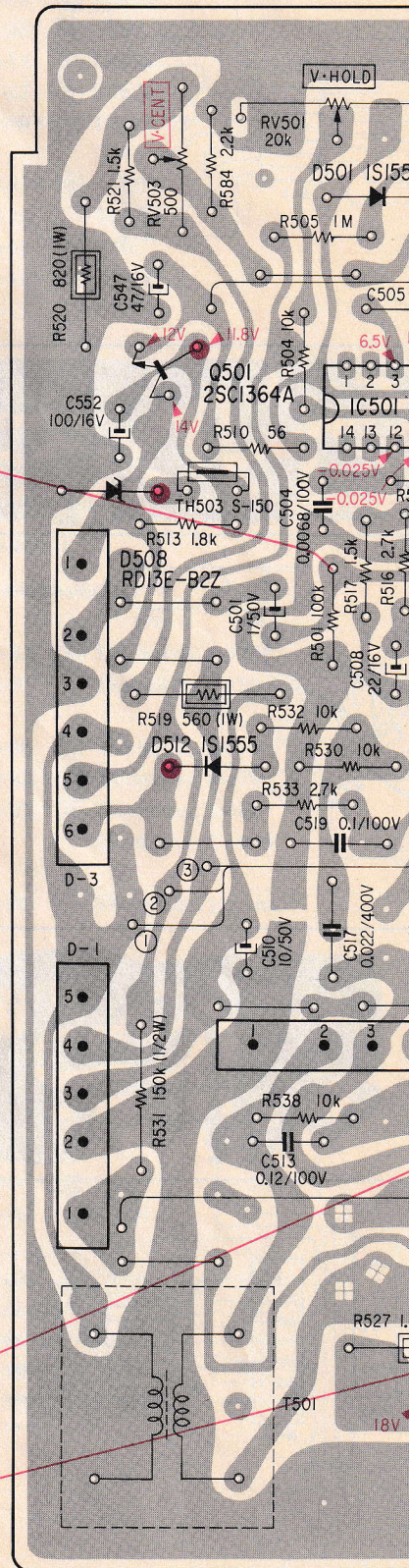
D board



BRIGHTNESS PICTURE
MIN — MAX
0.27A — 0.425A

(24) 1V P-P(V)

(25) 80V P-P(V)



D

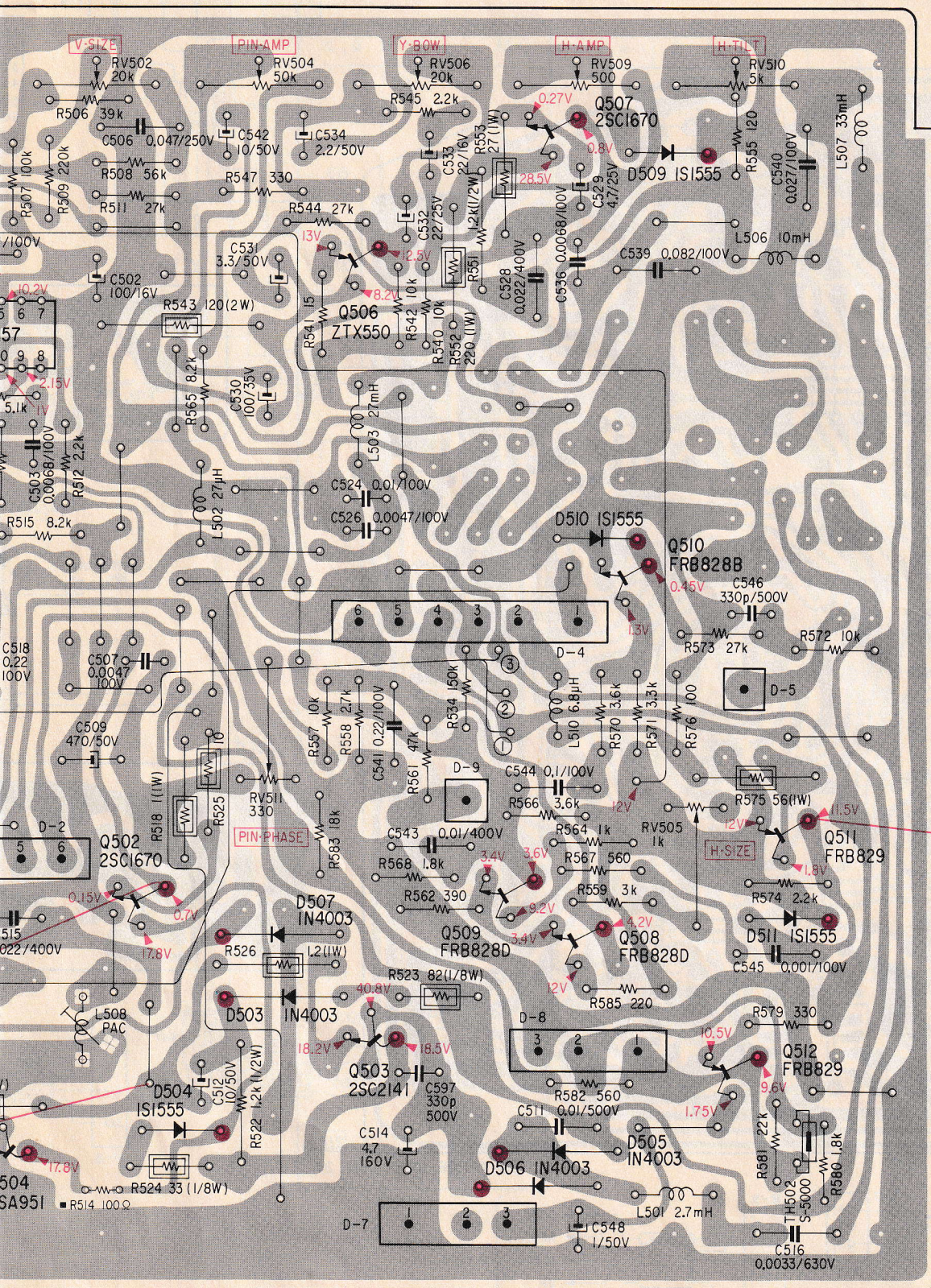
V. OSC, V. OUT, ETC
H AMP, PIN AMP

E

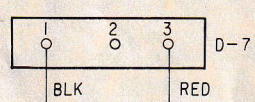
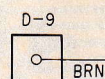
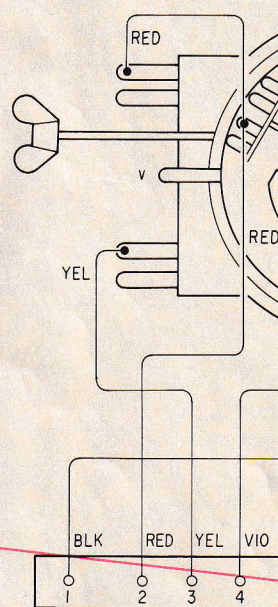
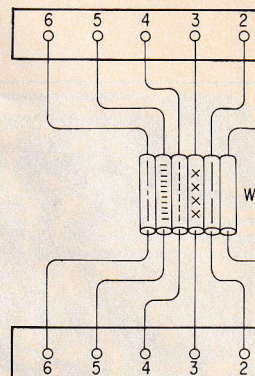
F

G

H

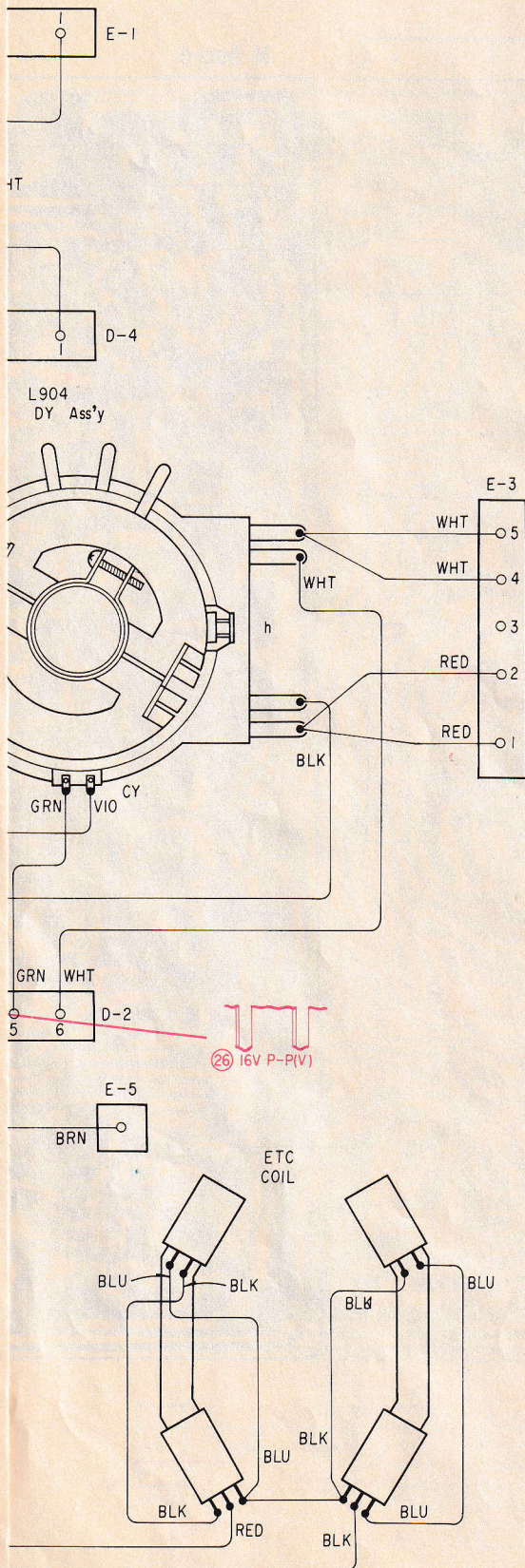


A-1345-238-A

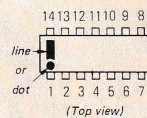


21

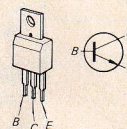
Note: ● ○ : parts extracted from the component side.
 ● ● : parts extracted from the conductor side.
 ●  : nonflammable resistor.



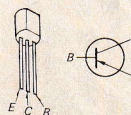
CX157



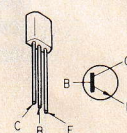
2SC2141



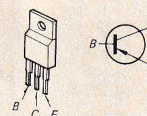
2SA684



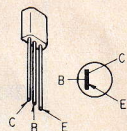
FRB828B



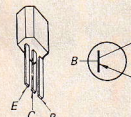
2SA951



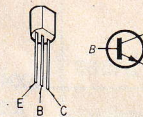
FRB829



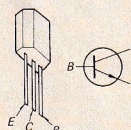
2SA1027R



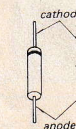
ZTX550



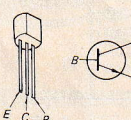
2SC633A



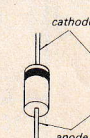
10E2
1S1555
RD12E-B2TP



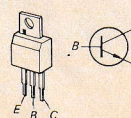
2SC1364
2SC1670



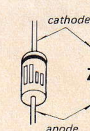
1N4003



2SC1962



EQB01-12Z



M	J	X
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A

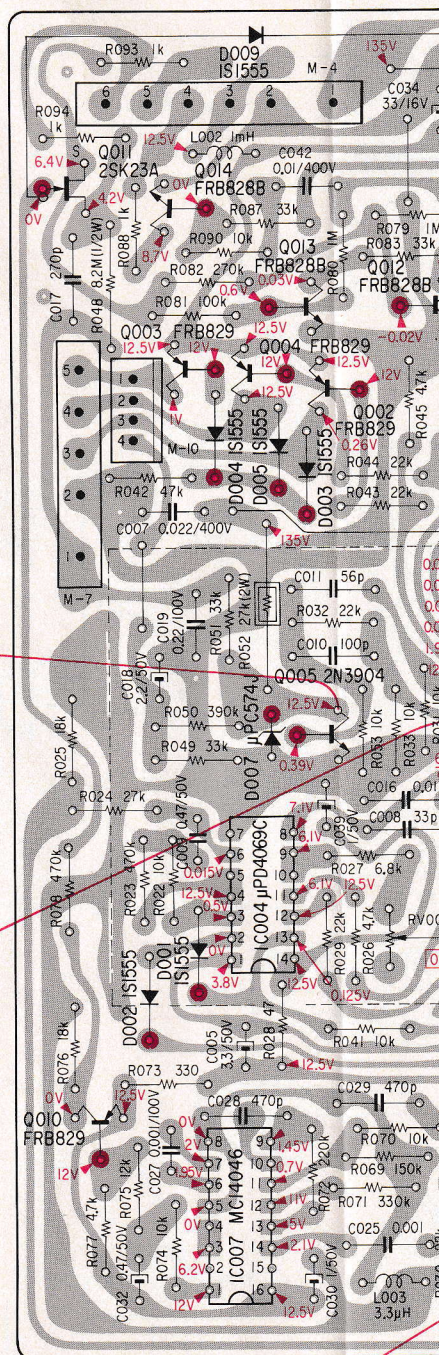
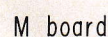
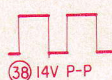
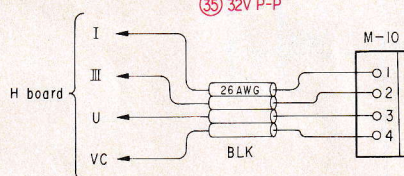
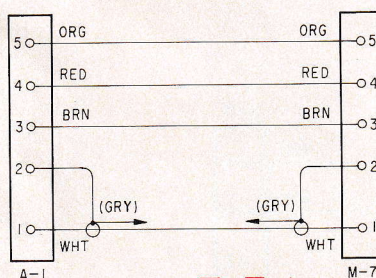
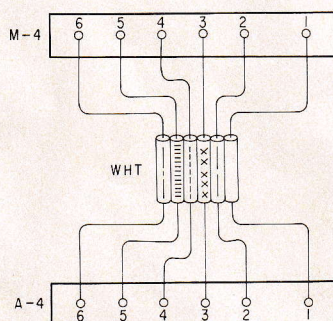
B

C

D

1

IC , Q	D	ADJ
	009	
	008	
015		
011		
014		
001		
IC006		
IC008		
013		
012		
003	151	
004		
002		
	004	
154	005	
153	003	
152		
151		
IC005		
IC002		
005	007	
IC001		
IC004		
IC003		
	001	RV001
	002	RV453
	451	RV452
		RV451
010		
007		
IC007		
IC009		
008		
006		
IC , Q	D	ADJ



4

5

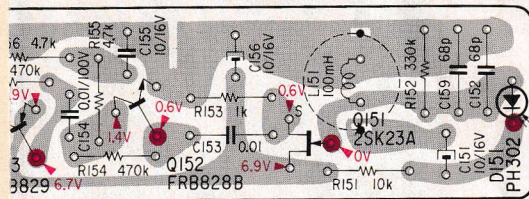
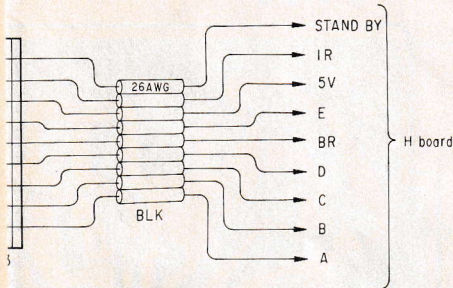
X	J	M
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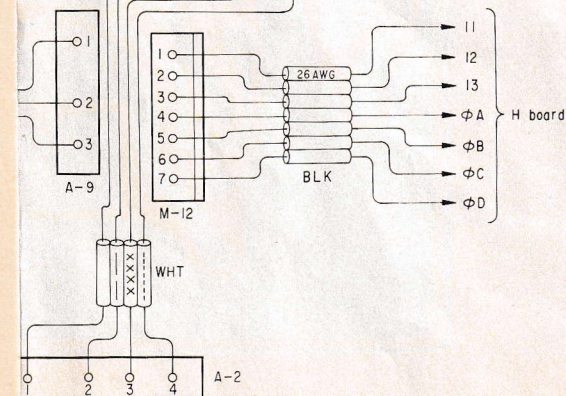
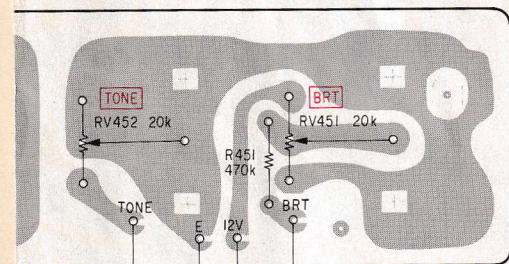
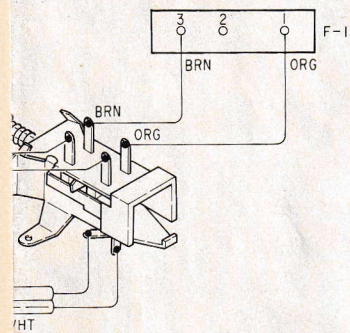
M

J

X



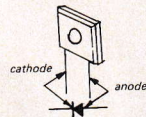
A-1394-002-A



Note:

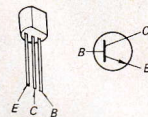
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : nonflammable resistor.

BC237

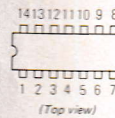
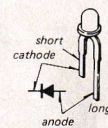


μPD4002C
μPD4011C
μPD4012C
μPD4030C
μPD4069C

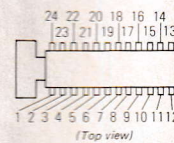
2SC1364



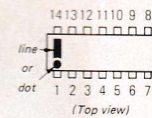
PH302A



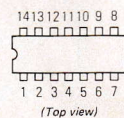
CX760



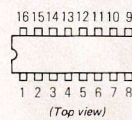
CX761



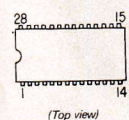
CX761A



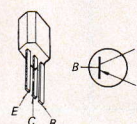
MC14046BCP



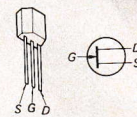
M58485P



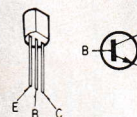
2SA1027R



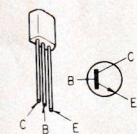
2SK23A-812



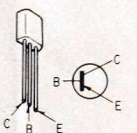
2N3904



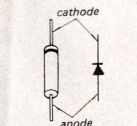
FRB828B



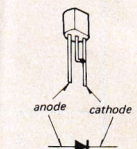
FRB829



BZX-79-C9V1
RD9.1E
1S1555



μPC574J



—31—

E

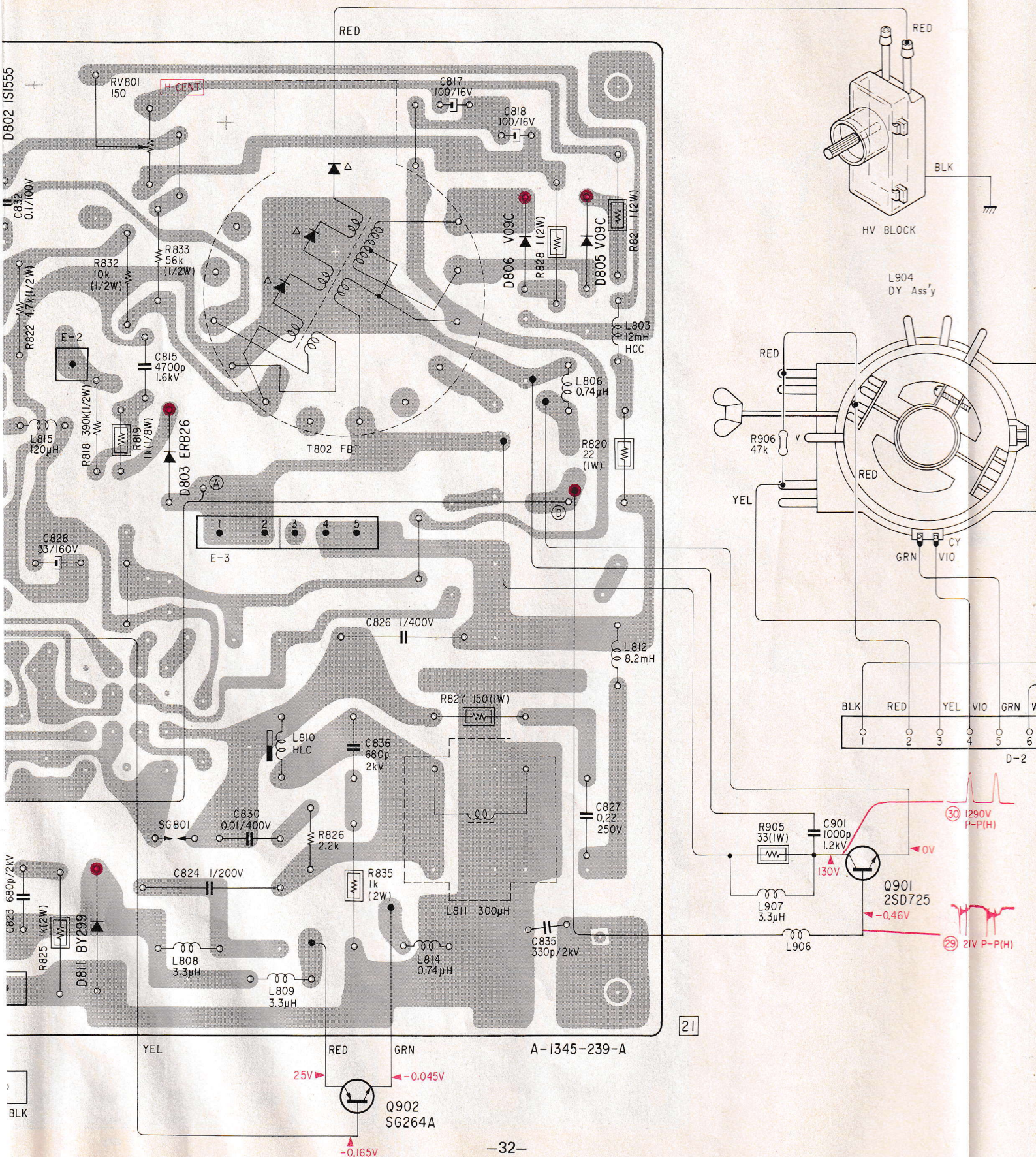
[H. OSC, H. OUT
PIN OUT, HV]

E

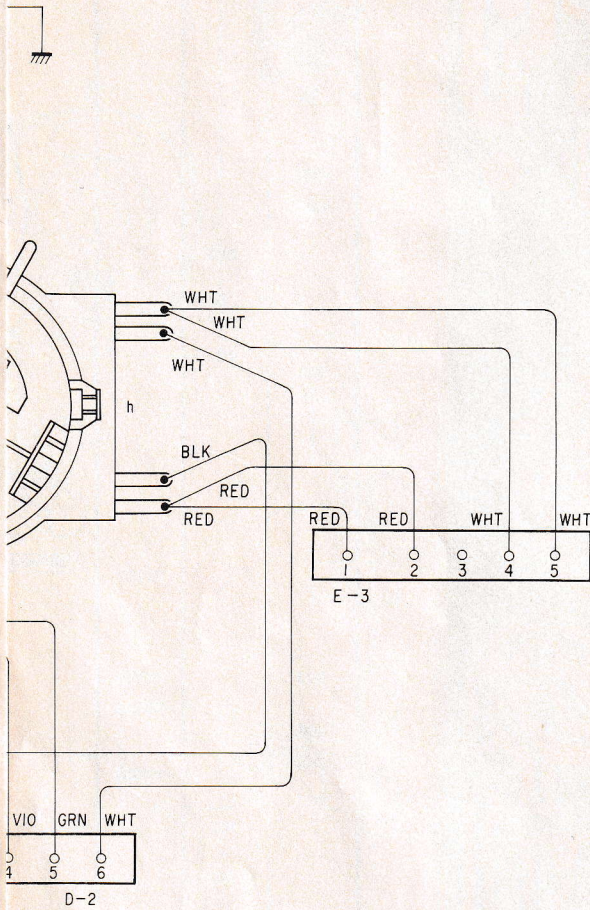
F

G

4



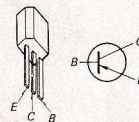
Note: • ○ : parts extracted from the component side.
 • ● : parts extracted from the conductor side.
 •  : nonflammable resistor.



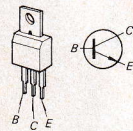
290V
P-P(H)

IV P-P(H)

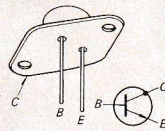
2SA1027R



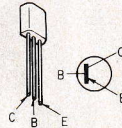
2SC1723



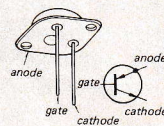
2SD725



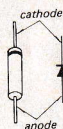
FRB829



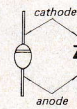
SG264A



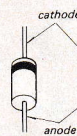
1S1555



ERB26-20
ERC26-15S
GH3F
V09C



BY299



A

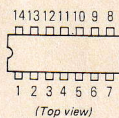
A

B

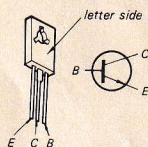
C

D

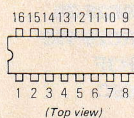
— A Board —

M5135P
TBA120U

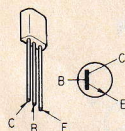
2SD669A



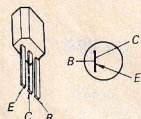
TBA1440G



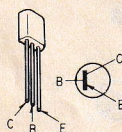
FRB828B



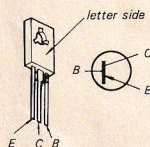
2SA1027R



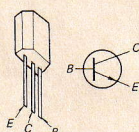
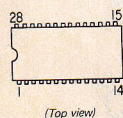
FRB829



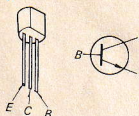
2SB649A

BZX79-C4V3
RD4.3E
1S1555

2SC926A

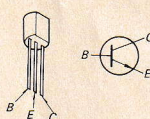
 μ PC1365C

2SC1364



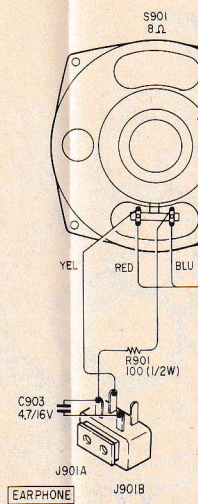
- Note:
- — : parts extracted from the component side.
 - — : parts extracted from the conductor side.
 - : nonflammable resistor.
 - : part mounted on the conductor side.

2SC2009



IC, Q	D	ADJ
205		RV302
204		RV303
206		RV304
305		
IC203	302	
IC301	305	
	304	
301	201	
IC202		RV301
303		RV202
304		RV308
203		RV305
302	301	
	303	
IC201		RV201
207		RV307
202		RV306
201		
208		
IC, Q	D	ADJ

⑩ 1.9V
P-P(H)



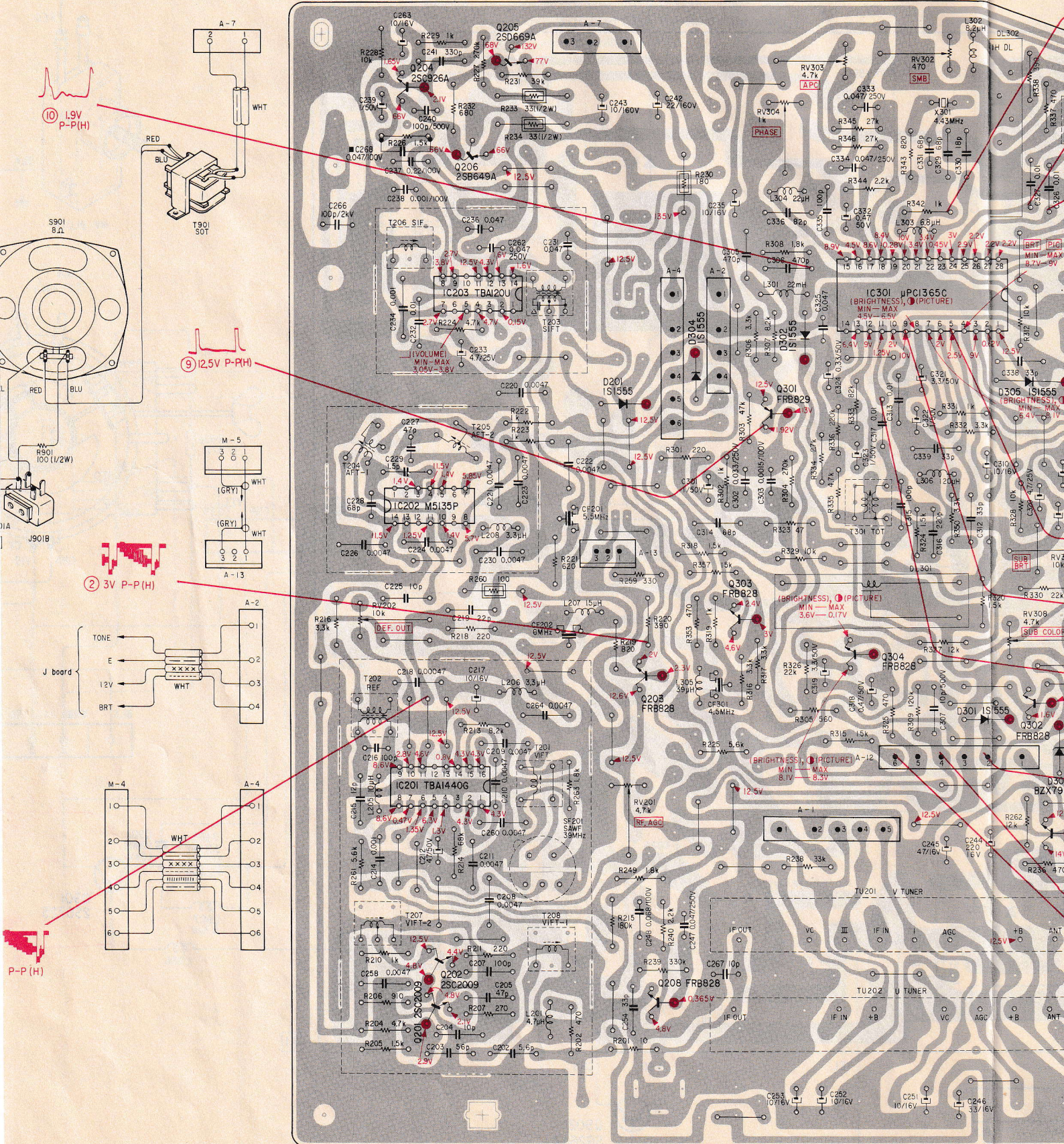
J board

① 3V P-P (H)

A

A

A board



A

DL 302
H DL

T303
DAT

R339
220

R340
220

C258
0.01

10V

Q305
FR8829

R345
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R346
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R629
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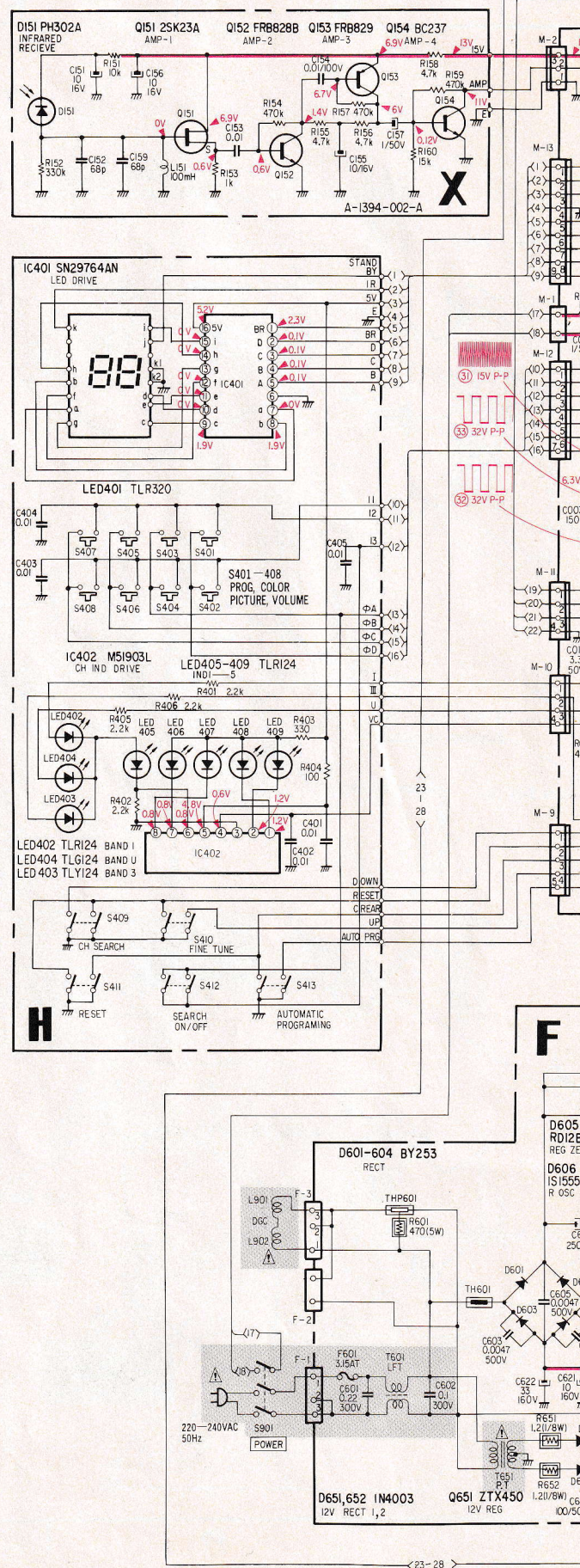
R630
3.3k

R6

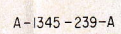
Note:

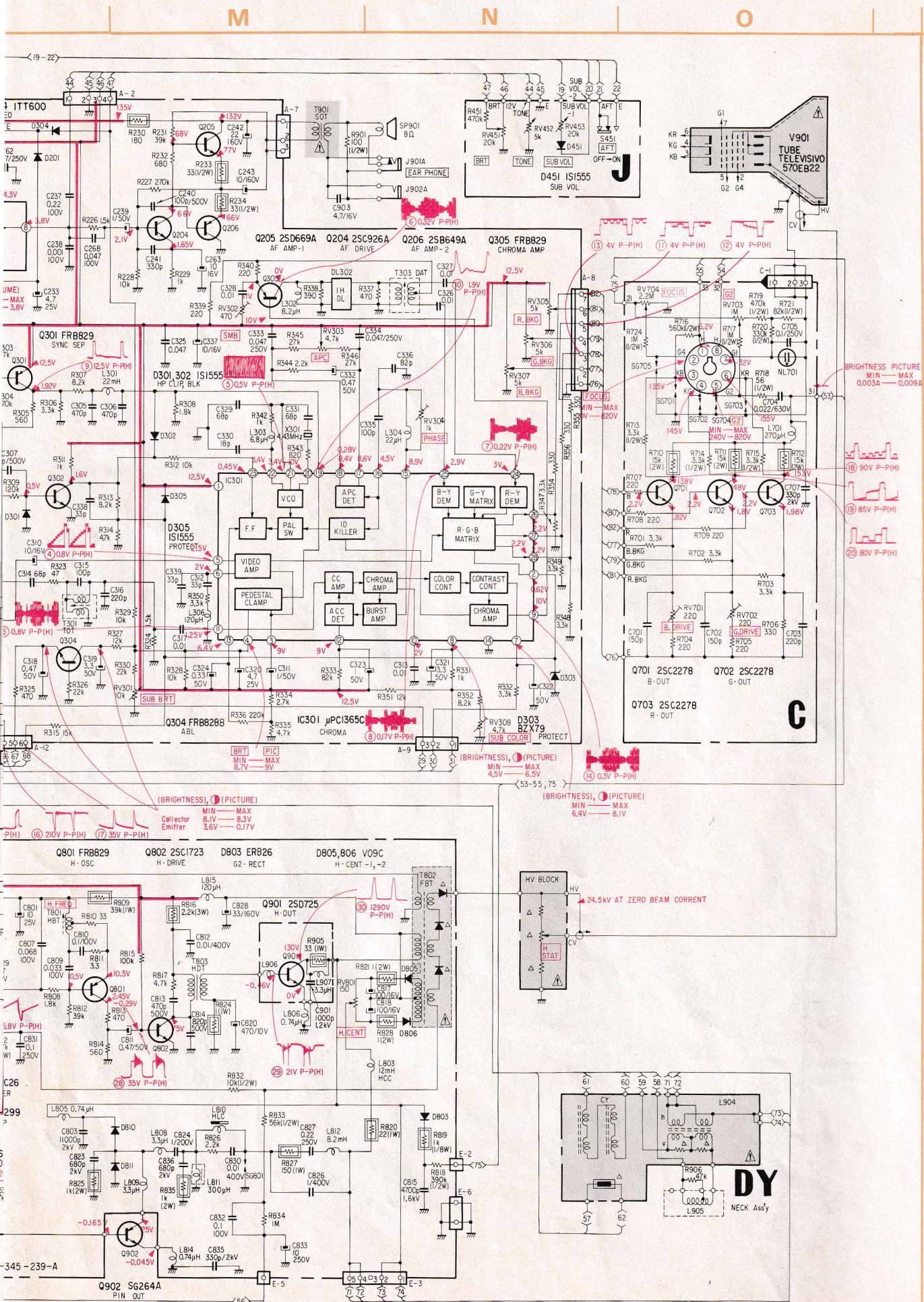
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$. 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$.
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
- All adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
-  : selected to yield optimum performance.
-  : adjustable without removing cabinet.
-  : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- Do not touch the base of Q608 (marked *) with the VOM probe, as B+ voltage will not be supplied to the set.
- Voltages of Q512 are taken with D-7 removed and also TH502 short-circuited.

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









SECTION 6 EXPLODED VIEWS

A

B

C

D

(1)

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.

- All screws are Phillips (cross recess) type unless otherwise noted.

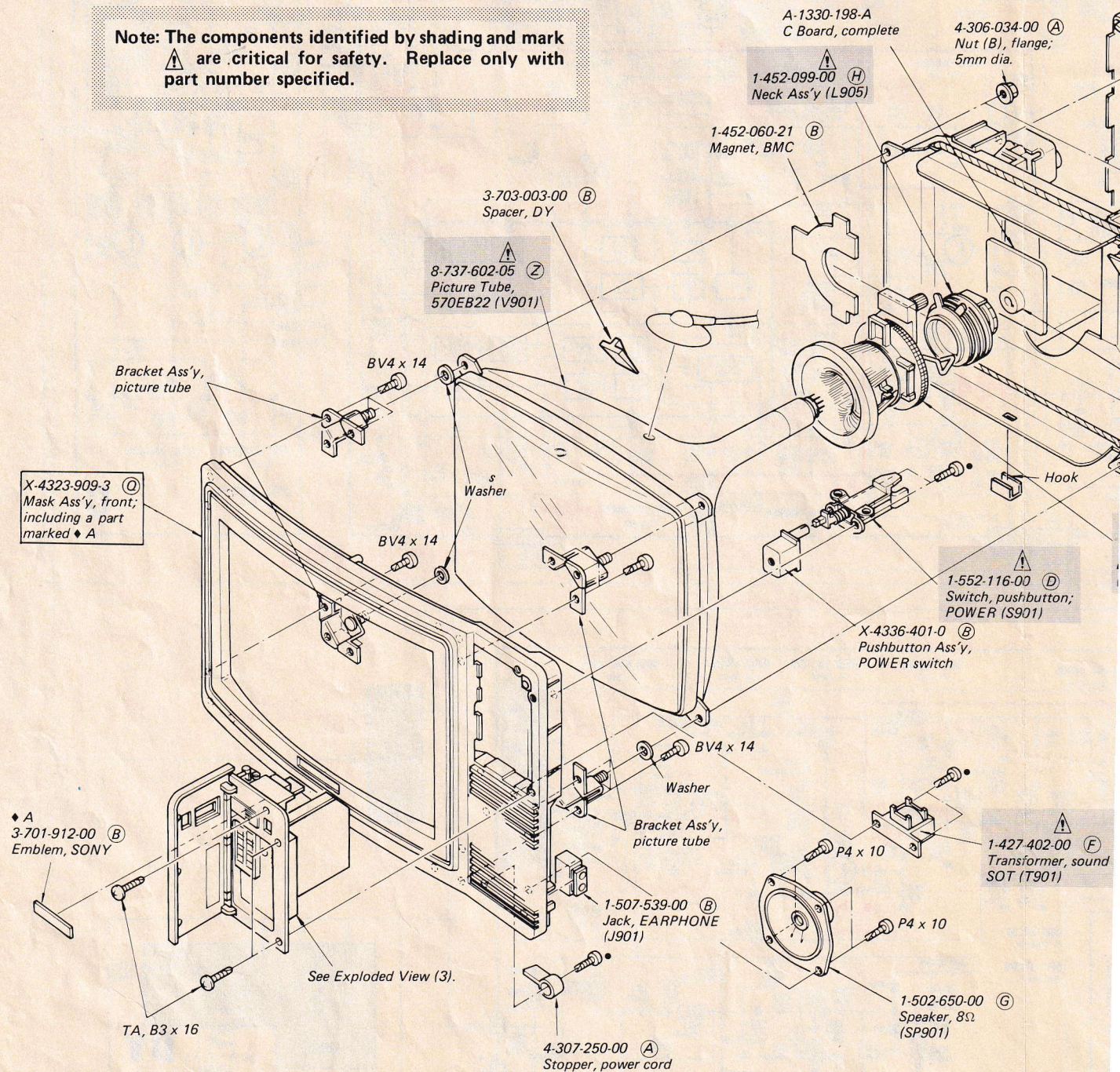
(-) = slotted head

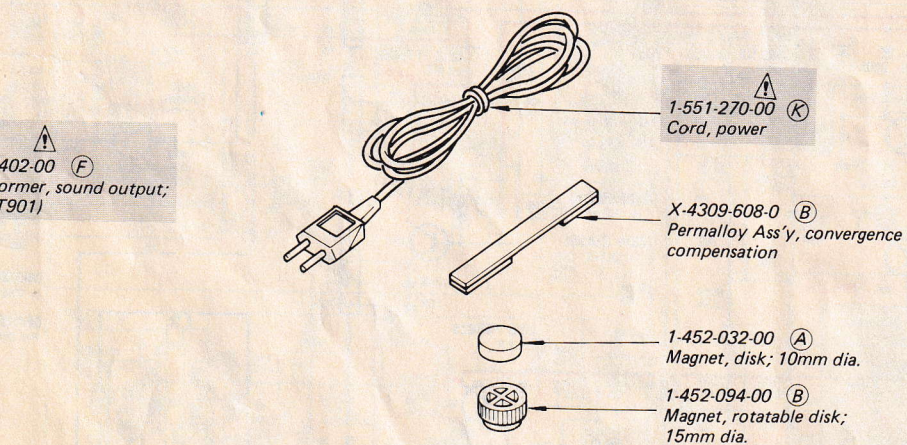
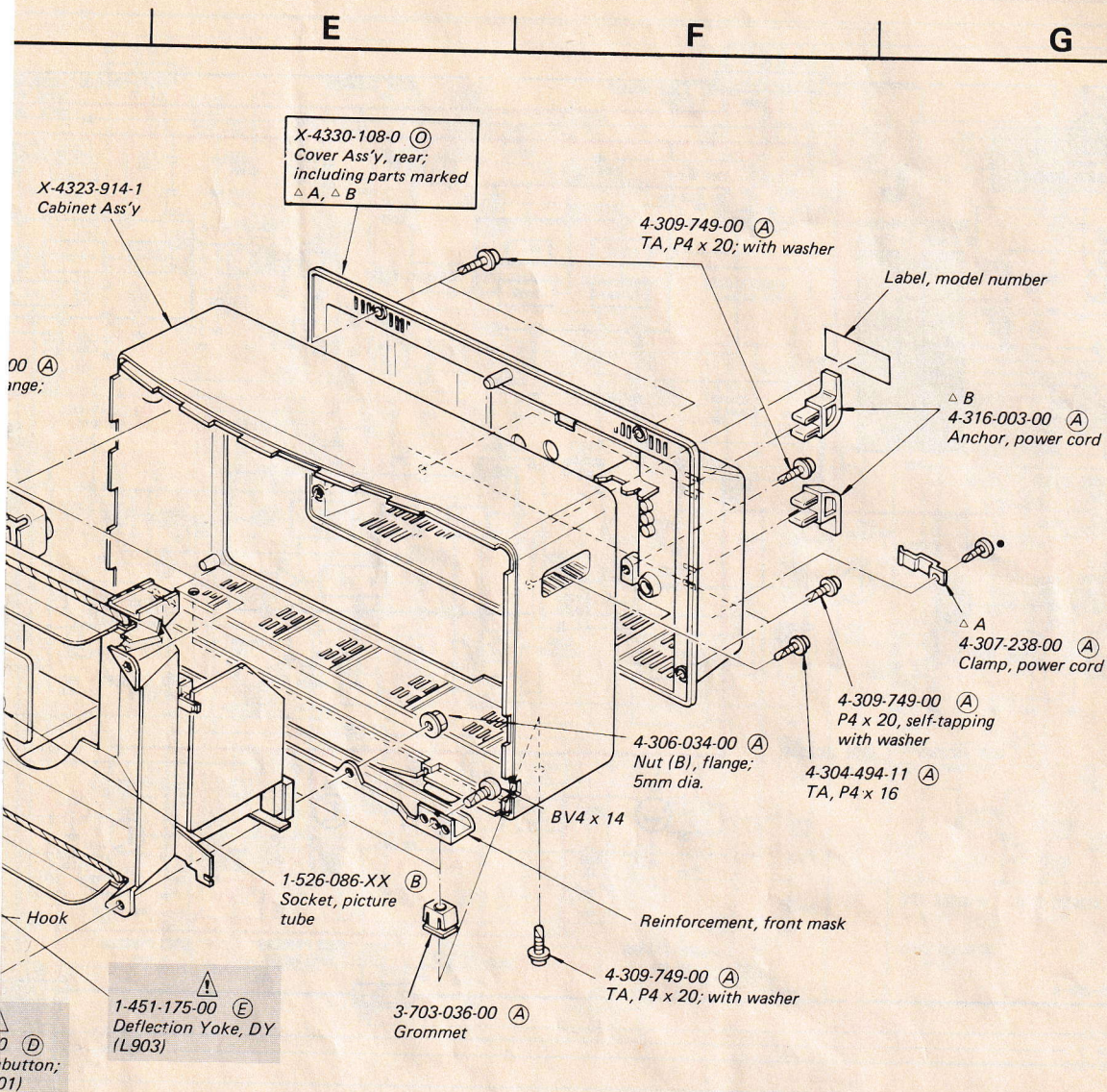
■ : TA, BV3 x 8

● : TA, BV3 x 12

▲ : TA, BV4 x 12

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





A

B

C

D

(2)

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.

(-) = slotted head

■ : TA, BV3 x 8

● : TA, BV3 x 12

▲ : TA, BV4 x 12

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

1

2

3

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5

 1-454-166-00
Coil, degaussing;
DGC (L901, 902)

4-303-774-XX (A)
Spring

Bracket, HVR block

Bracket, cabinet

Lug 3

Holder, transistor

Holder, transistor

1-536-392-XX (B)
Terminal Strip

Guide, A board

Shield, picture tube

 1-226-271-31 (L)
HVR Block

 1-439-244-21 (N)
Transformer, flyback;
FBT (T801)

3-701-353-00 (A)
Spacer, mica

4-303-844-00 (A)
Spacer, mica

Bracket,

Heat Sink

Cabr

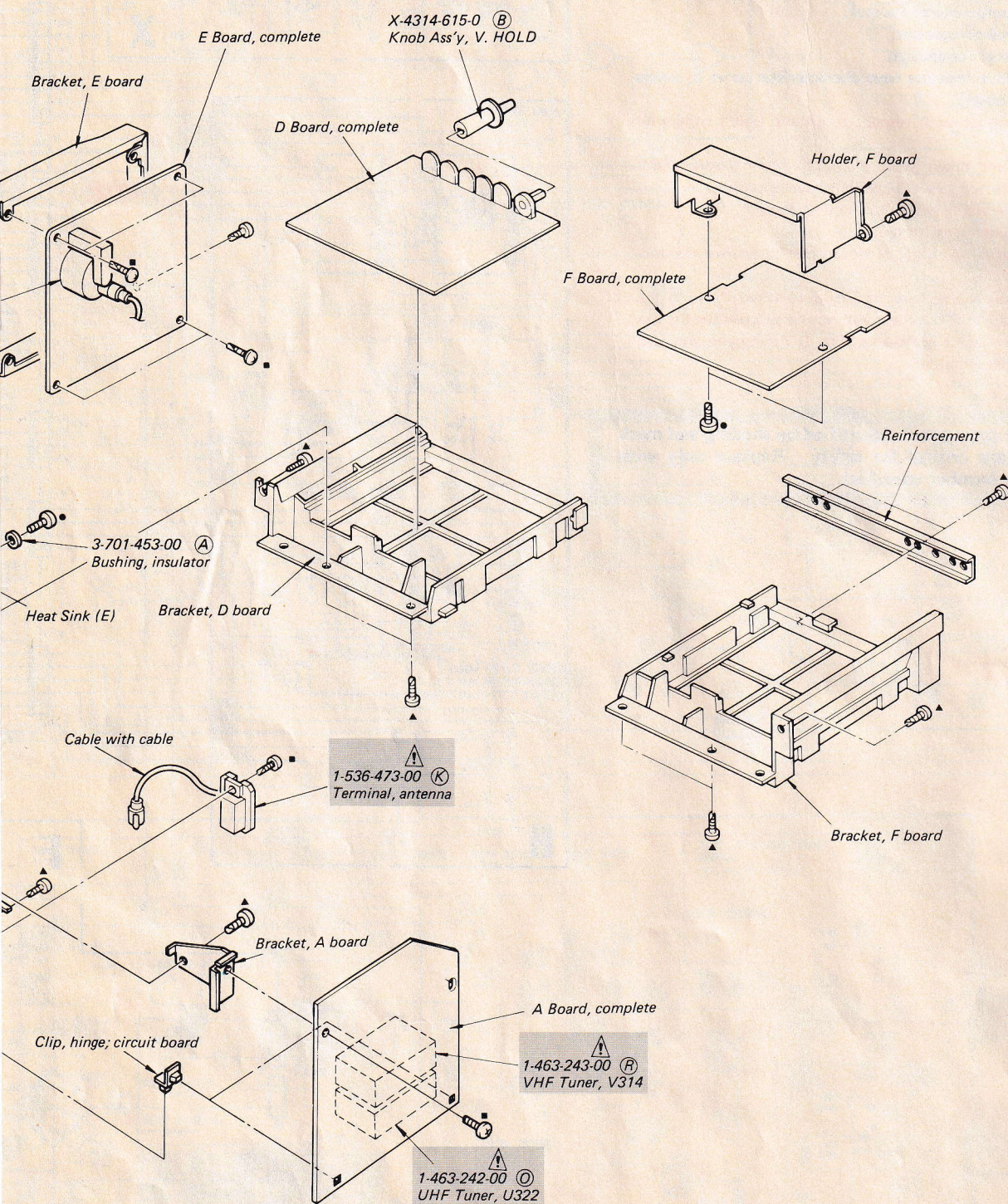
Clip, hin

E

F

G

H



A

B

C

D

E

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head

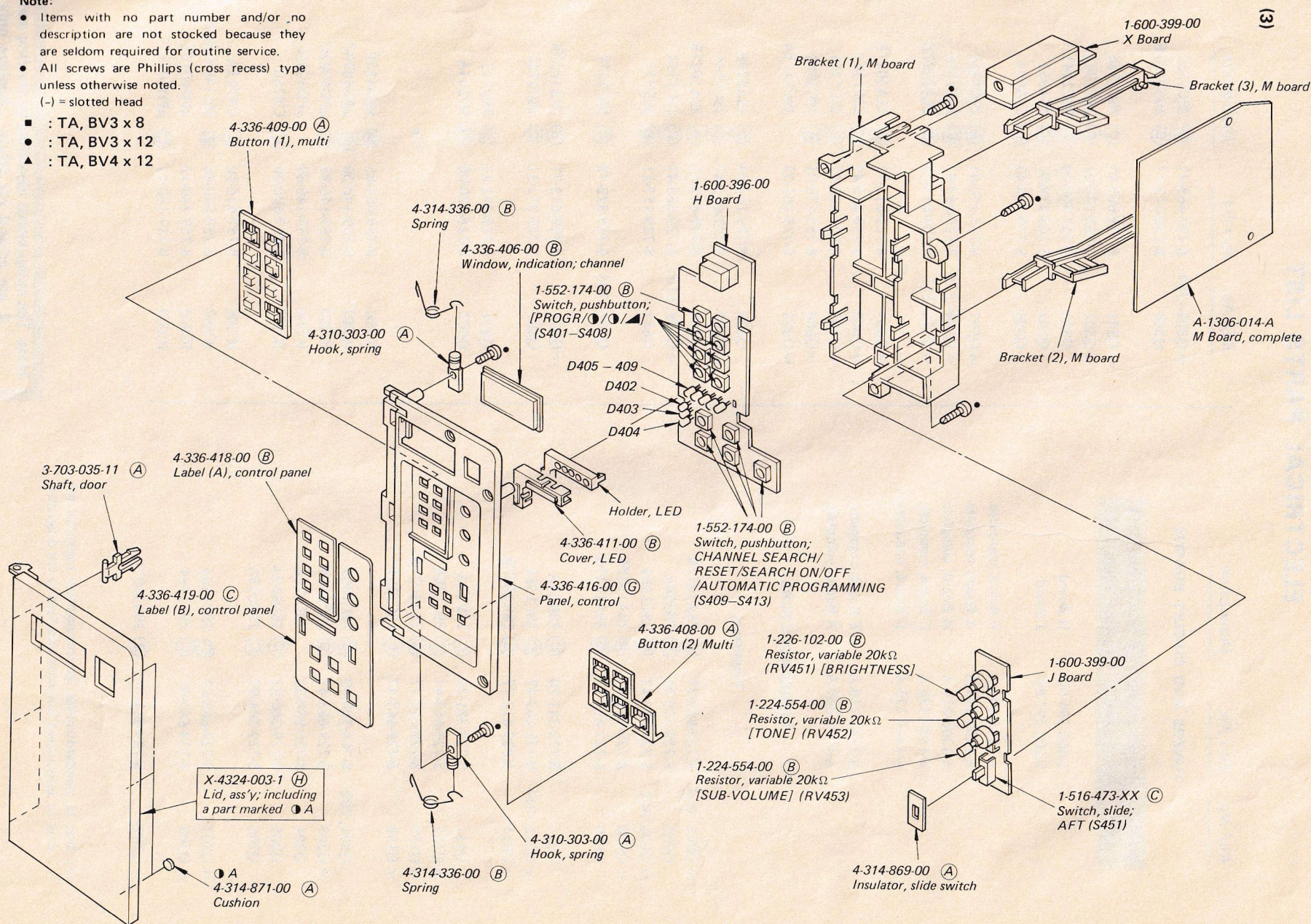
- : TA, BV3 x 8
- : TA, BV3 x 12
- ▲ : TA, BV4 x 12

1

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SECTION 7 ELECTRICAL PARTS LIST

Ref. No. Part No. Description

TUNERS AND CIRCUIT BOARDS

TU201 **A** 1-463-243-00 **R** VHF Tuner, V314
 TU202 **A** 1-463-242-00 **P** UHF Tuner, U322

1-600-396-00 H Board
 1-600-397-00 J Board

A-1245-108-A F Board, complete
 A-1295-269-A A Board, complete
 A-1306-014-A M Board, complete
 A-1330-198-A C Board, complete
 A-1345-238-A D Board, complete

A-1345-239-A E Board, complete
 A-1394-002-A X Board, complete

SEMICONDUCTORS

Transistors

⇒ Q001-004 8-729-612-77 **B** 2SA1027R
 Q005 8-729-139-04 **B** 2N3904
 ⇒ Q006, 007 8-729-663-47 **C** 2SC1364
 ⇒ Q008 8-729-612-77 **B** 2SA1027R
 Q010 8-729-612-77 **B** 2SA1027R

Q011 8-722-381-20 **C** 2SK23A
 ⇒ Q012-014 8-729-663-47 **C** 2SC1364
 ⇒ Q015 8-729-612-77 **B** 2SA1027R

Q151 8-722-381-20 **C** 2SK23A
 ⇒ Q152 8-729-663-47 **C** 2SC1364
 ⇒ Q153 8-729-612-77 **B** 2SA1027R
 ⇒ Q154 8-729-663-47 **C** 2SC1364

Q201, 202 8-765-300-00 **B** 2SC2009
 ⇒ Q203 8-729-663-47 **C** 2SC1364
 Q204 8-720-950-30 2SC926A
 Q205 8-729-306-92 **C** 2SD669A
 Q206 8-729-304-92 **C** 2SB649A

⇒ Q207 8-729-663-47 **C** 2SC1364
 ⇒ Q208 8-729-663-47 **C** 2SC1364

⇒ Q301 8-729-612-77 **B** 2SA1027R

Ref. No. Part No. Description

⇒ Q302-304 8-729-663-47 **D** 2SC1364
 Q305 8-729-612-77 **B** 2SA1027R

⇒ Q501 8-729-663-47 **C** 2SC1364
 ⇒ Q502 8-765-170-01 **E** 2SC1962
 Q503 8-765-500-00 **C** 2SC2141
 Q504 8-765-510-00 **C** 2SA951
 Q506 8-729-468-43 **C** 2SA684

⇒ Q507 8-765-170-01 **E** 2SC1962
 ⇒ Q508-510 8-729-663-47 **C** 2SC1364
 ⇒ Q511, 512 8-729-612-77 **B** 2SA1027R

⇒ Q601 8-729-612-77 **B** 2SA1027R
 ⇒ Q602 8-729-663-47 **C** 2SC1364
 ⇒ Q603 8-729-663-47 **C** 2SC1364
 ⇒ Q604 8-765-170-01 **E** 2SC1962
 ⇒ Q605 8-729-301-32 2SC1413A

Q606 8-729-163-93 **C** 2SA639S
 ⇒ Q607 8-729-663-47 **C** 2SC1364
 ⇒ Q608 8-729-612-77 **B** 2SA1027R
 ⇒ Q609, 610 8-729-663-47 **C** 2SC1364
 Q651 8-729-157-11 **B** 2SD571

Q701-703 8-729-322-78 **C** 2SC2278

⇒ Q801 8-729-612-77 **B** 2SA1027R
 Q802 8-729-372-31 **C** 2SC1723

Q901 8-729-372-51 **C** 2SD725
 Q902 8-726-420-00 **H** SG264A

ICs

IC001 8-759-684-85 **M** M58485P
 IC002 8-759-140-30 **C** μ PD4030C
 IC003 8-759-140-02 **C** μ PD4002C
 IC004 8-759-140-69 μ PD4069C
 IC005 8-757-600-00 **L** CX760

IC006 8-757-610-00 **K** CX761A
 IC007 8-759-040-46 **Z** MC140468CP
 IC008 8-759-140-12 μ PD4012C
 IC009 8-759-140-11 **C** μ PD4011C

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

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

Ref. No.	Part No.	Description
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IC201	8-759-014-40	(H) TBA1440G
IC202	8-759-651-35	(H) M5135P
IC203	8-759-001-20	(F) TBA120U

IC301	8-759-113-65	(K) μ PC1365C
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IC401	8-759-997-64	(G) SN29764N
IC402	8-759-619-03	(E) M51903L

IC501	8-751-570-00	(F) CX157
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Diodes

D001-005	8-719-815-55	(B) 1S1555
D007	8-759-157-40	(E) μ PC574J
⇒ D008	8-719-191-07	(B) RD9.1E

D151	8-729-103-03	PH302A
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D201	8-719-815-55	(B) 1S1555
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D301, 302	8-719-815-55	(B) 1S1555
⇒ D303	8-719-143-07	(B) RD4.3E
D304, 305	8-719-815-55	(B) 1S1555

D451	8-719-815-55	(B) 1S1555
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D501	8-719-815-55	(B) 1S1555
⇒ D503	8-719-200-02	(B) 10E2
D504	8-719-815-55	(B) 1S1555
⇒ D505-507	8-719-200-02	(B) 10E2
⇒ D508	8-719-930-12	(B) EQB01-12Z

D509-512	8-719-815-55	(B) 1S1555
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⇒ D601-604	8-719-911-55	(B) U05G
⇒ D605	8-719-930-12	(B) EQB01-12Z
D606	8-719-815-55	(B) 1S1555
⇒ D609	8-719-305-15	(D) GH-3F
D610	8-719-815-55	(B) 1S1555

D611	8-719-139-27	(B) RD39E-B4Z
D612-614	8-719-815-55	(B) 1S1555
⇒ D615	8-719-200-02	(B) 10E2
⇒ D641	8-719-320-11	(B) HF-1A

Ref. No.	Part No.	Description
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⇒ D642-644	8-719-305-15	(D) GH-3F
⇒ D645	8-719-200-02	(B) 10E2
⇒ D646	8-719-305-15	(D) GH-3F
⇒ D651, 652	8-719-200-02	(B) 10E2
⇒ D653	8-719-931-13	(B) EQB01-13

D801, 802	8-719-815-55	(B) 1S1555
D803	8-719-926-20	ERB26
D805, 806	8-719-900-93	(B) V09C
⇒ D810	8-719-305-15	(D) GH-3F
⇒ D811	8-719-305-15	(D) GH-3F

LED401	8-719-803-20	(J) TLR320
LED402	8-719-812-41	(B) TLR124
LED403	8-719-812-42	TLY124
LED404	8-719-812-43	(B) TLG124
LED405- LED409	8-719-812-41	(B) TLR124

Miscellaneous

TH502	1-800-070-XX	(A) Thermistor, S-5000
TH503	1-800-378-00	(A) Thermistor, S-150

TH601	1-800-820-00	(F) Thermistor, power
TH602, 603	1-800-070-XX	(A) Thermistor, S-4700
TH604	1-800-202-XX	(A) Thermistor, S-10k
TH605		Thermistor, S-1000

PTH601	1-800-955-00	Thermistor, positive
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SG701-705	1-519-063-XX	(B) Discharging Gap
SG801	1-519-063-XX	(B) Discharging Gap

COILS

All coils are microinductors unless otherwise noted.

L001, 002	1-407-762-00	(A) 1mH
L003	1-408-267-00	3.3 μ H
L151	1-409-315-00	(B) 100mH
L201	1-408-268-00	47 μ H
L205	1-407-738-00	(A) 10 μ H
L206	1-408-267-00	3.3 μ H

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
L207	1-407-740-00	(A) 15 μ H
L208	1-408-267-00	3.3 μ H
L301	1-408-245-00	(B) 22mH
L302	1-408-307-00	(A) 8.2 μ H
L303	1-408-270-00	6.8 μ H
L304	1-407-742-00	(A) 22 μ H
L305	1-407-745-00	(A) 39 μ H
L306	1-407-751-00	(A) 120 μ H
L501	1-459-105-00	(B) 2.7mH
L502, 503	1-408-246-00	(B) 27 μ H
L506	1-408-242-00	(B) 10mH
L507	1-408-247-00	(B) 33mH
L508	1-435-055-21	(D) Phase Adjust, PAC
L510	1-408-270-00	6.8 μ H
L602	1-407-365-00	(A) 0.74 μ H
L603	1-408-300-00	(B) 6.8 μ H
L641	1-459-215-00	(B) 120 μ H
L642	1-407-748-00	(A) 68 μ H
L643	1-407-364-00	(B) 3.3 μ H
L644	1-408-267-00	3.3 μ H
L645	1-407-364-00	(B) 3.3 μ H
L701	1-407-755-00	(A) 270 μ H
L803	1-459-059-00	(B) 12mH HCC
L805, 806	1-407-365-00	(A) 0.74 μ H
L808, 809	1-408-225-00	(B) 3.3 μ H
L810	1-459-125-00	(D) HLC
L811	1-459-263-00	(E) 300 μ H
L812	1-408-241-00	(B) 8.2mH
L814	1-407-365-00	(A) 0.74 μ H
L815	1-459-215-00	(B) 120 μ H
L901, 902	(A) 1-454-166-00	(B) Degaussing, DGC
L904	(A) 1-451-175-00	Deflection Yoke, DY
L905	(A) 1-452-099-00	(H) Neck Ass'y
L906	1-407-364-00	(B) Choke
L907	1-407-780-00	(B) 3.3 μ H

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
DL301	1-415-186-00	Delay Line, Y
DL302	1-415-185-00	Delay Line, 1H DL

TRANSFORMERS AND FILTERS

CF001	1-527-476-00	(B) Ceramic Radiator
CF201	1-527-263-00	(B) Ceramic Filter
CF202	1-404-134-00	(B) Ceramic Trap
CF301	1-409-332-00	(B) Ceramic Trap
T201	1-404-207-00	(B) VIFT-3
T202	1-404-203-00	(B) REF
T203	1-404-097-00	(B) SIFT
T204	1-403-810-00	(B) AFT-1
T205	1-403-811-00	(B) AFT-2
T206	1-404-135-00	(B) SIFT
T207	1-404-206-00	(B) VIFT-2
T208	1-403-990-00	(B) VIFT-1
T301	1-425-995-00	(B) TOT
T303	1-425-928-00	(B) Delay Adjustment, DAT
T501	1-421-245-11	(F) Vertical Pincushion Correction, PCT
T601	(A) 1-421-352-00	(F) Line Filter, LFT
T602	1-446-194-00	(B) Regulator Drive, RDT
T603	1-413-040-00	(I) Switching Regulator, SRT
T651	(A) 1-446-360-00	(F) Power, PT
T801	1-405-760-00	(B) Horizontal Blocking, HBT
T802	(A) 1-439-244-21	(N) Flyback, FBT
T803	1-437-078-00	(C) Horizontal Drive, HDT
T901	(A) 1-427-402-00	(F) Sound Output, SOT

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μ F, elect : electrolytic

C001, 002	1-123-352-00	(A) 1	50V	elect
C003, 004	1-161-313-00	(A) 150p		
C005	1-123-354-00	(A) 3.3	50V	elect

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

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>				<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>			
C006	1-123-316-00	(B)	10	16V	elect	C202	1-161-290-00	(A)	5.6p		
C007	1-130-257-00		0.022	400V	polyethylene	C203	1-161-268-00	(A)	56p		
C008	1-161-265-00	(A)	33p			C204	1-161-259-00	(A)	10p		
C009	1-123-021-00	(B)	0.47	50V	elect	C205	1-161-267-00	(A)	47p		
C010	1-161-271-00	(A)	100p			C207	1-161-271-00	(A)	100p		
C011	1-161-268-00	(A)	56p			C208-211	1-161-328-00	(B)	0.0047		
C012, 013	1-123-354-00	(A)	3.3	50V	elect	C212	1-123-355-00	(B)	4.7	50V	elect
C014	1-123-352-00	(B)	1	50V	elect	C214	1-161-323-00	(B)	0.001		
C015	1-130-248-00		0.047	250V	polyethylene	C215	1-161-280-00	(B)	12p		
C016	1-161-330-00	(B)	0.01			C219	1-161-263-00	(A)	22p		
C017	1-161-316-00	(A)	270p			C220-224	1-161-328-00	(B)	0.0047		
C018	1-123-353-00	(B)	2.2	50V	elect	C225	1-161-259-00	(A)	10p		
C019	1-130-244-00		0.22	100V	polyethylene	C226	1-161-328-00	(B)	0.0047		
C020	1-102-129-00	(A)	0.01			C227	1-102-852-00	(B)	47p		
C021	1-102-973-00	(A)	100p			C228	1-102-525-00	(A)	68p		
C022	1-161-323-00	(B)	0.001			C229	1-161-249-00	(A)	1.5p		
C023	1-123-352-00	(A)	1	50V	elect	C230	1-161-328-00	(B)	0.0047		
C024	1-130-242-00		0.10	100V	polyethylene	C231	1-101-006-00	(A)	0.047		
C025	1-161-323-00	(B)	0.001			C232	1-161-379-00	(B)	0.01		
C027	1-108-365-00	(A)	0.001	100V	mylar	C233	1-123-328-00	(B)	4.7	25V	elect
C028, 029	1-161-319-00	(A)	470p			C234	1-103-725-00	(A)	0.001		polystyrol
C030	1-123-352-00	(A)	1	50V	elect	C235	1-123-316-00	(B)	10	16V	elect
C032	1-121-951-00	(A)	0.47	50V	elect	C236	1-101-006-00	(A)	0.047		
C034	1-123-318-00	(A)	33	16V	elect	C237	1-130-244-00		0.22	100V	polyethylene
C035	1-121-951-00	(A)	0.47	50V	elect	C238	1-108-614-00	(A)	0.001	100V	mylar
C037	1-123-317-00	(A)	22	16V	elect	C239	1-123-352-00	(B)	1	50V	elect
C039	1-123-352-00	(A)	1	50V	elect	C240	1-101-810-00	(A)	100p	500V	
C040, 041	1-123-316-00	(B)	10	16V	elect	C241	1-161-317-00	(A)	330p		
C042	1-130-255-00		0.01	400V	polyethylene	C242	1-123-253-00	(B)	22	160V	elect
C043	1-123-354-00	(B)	3.3	50V	elect	C243	1-121-999-00	(B)	10	160V	elect
C044	1-121-951-00	(A)	0.47	50V	elect	C244	1-123-321-00	(B)	220	16V	elect
C151	1-123-316-00	(B)	10	16V	elect	C245	1-123-319-00	(B)	47	16V	elect
C152	1-161-269-00	(A)	68p			C246	1-123-318-00	(A)	33	16V	elect
C153	1-161-051-00	(A)	0.01			C247	1-130-248-00		0.047	250V	polyethylene
C154	1-108-377-00	(A)	0.01	100V	mylar	C248	1-130-241-00		0.068	100V	polyethylene
C155, 156	1-123-316-00	(B)	10	16V	elect	C250-253	1-123-316-00	(B)	10	16V	elect
C157	1-123-352-00	(B)	1	50V	elect	C254	1-161-265-00	(A)	33p		
C159	1-161-269-00	(A)	68p			C258, 260	1-161-328-00	(B)	0.0047		
						C262	1-130-248-00		0.047	250V	polyethylene

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C263	1-123-316-00	(B) 10	16V	elect	
C264	1-161-328-00	(B) 0.0047			
C266	1-161-731-00	(B) 1000p	2000V		
C267	1-161-259-00	(A) 10p			
C268	1-108-634-00	(A) 0.047	100V	mylar	
C301	1-123-352-00	(A) 1	50V	elect	
C302	1-130-247-00	0.033	250V	polyethylene	
C303	1-108-616-00	(B) 0.0015	100V	mylar	
C305, 306	1-161-319-00	(B) 470p			
C307	1-101-804-00	(A) 10p	500V		
C310	1-123-316-00	(B) 10	16V	elect	
C311	1-123-352-00	(B) 1	50V	elect	
C312	1-161-265-00	(A) 330p			
C313	1-161-379-00	(B) 0.01			
C314	1-161-269-00	(A) 68p			
C315	1-161-271-00	(A) 100p			
C316	1-161-315-00	(A) 220p			
C317	1-161-379-00	(B) 0.01			
C318	1-123-351-00	(B) 0.47	50V	elect	
C319	1-123-354-00	(B) 3.3	50V	elect	
C320	1-123-328-00	(B) 4.7	25V	elect	
C321	1-123-354-00	(B) 3.3	50V	elect	
C322, 323	1-123-352-00	(B) 1	50V	elect	
C324	1-123-286-00	(B) 0.33	50V	elect	
C325	1-101-006-00	(A) 0.047			
C326-328	1-161-379-00	(B) 0.01			
C329	1-161-269-00	(A) 68p			
C330	1-161-262-00	(A) 18p			
C331	1-102-525-00	(A) 68p			
C332	1-123-351-00	(B) 0.47	50V	elect	
C333, 334	1-130-248-00	(A) 0.047	250V	polyethylene	
C335	1-161-271-00	(A) 100p			
C336	1-161-270-00	(B) 82p			
C337	1-123-316-00	(A) 10	16V	elect	
C338, 339	1-161-265-00	(A) 33p			
C401-405	1-161-051-00	(A) 0.01			
C501	1-123-352-00	(B) 1	50V	elect	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C502	1-123-320-00	(B) 100	16V	elect	
C503, 504	1-108-375-00	(A) 0.0068	100V	mylar	
C505	1-130-242-00	0.1	100V	polyethylene	
C506	1-130-248-00	0.047	250V	polyethylene	
C507	1-106-188-00	(B) 0.0047	100V	mylar	
C508	1-123-317-00	(B) 22	16V	elect	
C509	1-123-363-00	(B) 470	50V	elect	
C510	1-123-356-00	(A) 10	50V	elect	
C511	1-102-050-00	(A) 0.01	500V		
C512	1-123-356-00	(A) 10	50V	elect	
C513	1-108-639-00	(B) 0.12	100V	mylar	
C514	1-123-269-00	(C) 4.7	160V	elect	
C515	1-130-257-00	0.022	400V	polyethylene	
C516	1-129-708-00	(A) 0.0033	630V	polypropylene	
C517	1-130-257-00	0.022	400V	polyethylene	
C518	1-130-244-00	0.22	100V	polyethylene	
C519	1-130-242-00	0.10	100V	polyethylene	
C524	1-129-701-00	(A) 0.01	100V	film	
C526	1-106-188-00	(B) 0.0047	100V	mylar	
C528	1-130-257-00	0.022	400V	polyethylene	
C529	1-123-328-00	(B) 4.7	25V	elect	
C530	1-123-345-00	(B) 100	35V	elect	
C531	1-123-354-00	(B) 3.3	50V	elect	
C532	1-123-330-00	(A) 22	25V	elect	
C533	1-123-317-00	(B) 22	16V	elect	
C534	1-121-986-00	(A) 2.2	50V	elect	
C536	1-108-624-00	(B) 0.0068	100V	mylar	
C539	1-108-637-00	(B) 0.082	100V	mylar	
C540	1-108-631-00	(A) 0.027	100V	mylar	
C541	1-130-244-00	(A) 0.22	100V	polyethylene	
C542	1-123-356-00	(A) 10	50V	elect	
C543	1-130-255-00	0.01	400V	polyethylene	
C544	1-130-242-00	0.1	100V	polyethylene	
C545	1-108-614-00	(A) 0.001	100V	mylar	
C546	1-102-030-00	(A) 330p	500V		
C547	1-123-319-00	(B) 47	16V	elect	
C548	1-123-352-00	(B) 1	50V	elect	
C552	1-123-320-00	(B) 100	16V	elect	
C597	1-102-030-00	(A) 330p	500V		

Ref. No.	Part No.	Description
C601	1-108-745-00	(D) 0.22 300V mylar
C602	1-108-747-00	(C) 0.1 300V mylar
C603-605	1-102-085-00	(A) 0.0047 500V
C606	1-125-167-00	(G) 250 400V elect
C607	1-101-845-00	(A) 0.001 500V
C608	1-123-354-00	(B) 3.3 50V elect
C609	1-123-351-00	(B) 0.47 50V elect
C610	1-130-017-00	(A) 820 50V polypropylene
C612	1-130-026-00	(A) 0.0047 50V film
C613	1-130-257-00	0.022 400V polyethylene
C614	1-102-030-00	(A) 330p 500V
C616	1-101-810-00	(A) 100p 500V
C617	1-130-256-00	0.015 400V polyethylene
C619	1-102-327-00	(B) 330p 1500V
C621	1-121-999-00	(B) 10 160V elect
C622	1-123-024-00	(B) 33 160V elect
C623	1-108-365-00	(A) 0.001 100V mylar
C624	1-123-286-00	(A) 0.33 50V elect
C625	1-123-297-00	(B) 330p 6.3V elect
C626	1-123-352-00	(B) 1 50V elect
C627	1-123-252-00	(A) 1 160V elect
C641	1-123-254-00	(B) 10 250V elect
C642	1-123-362-00	(B) 330 50V elect
C643	1-123-334-00	(B) 220 25V elect
C644	1-123-308-00	(A) 220 10V elect
C645	1-123-356-00	(A) 10 50V elect
C646	1-123-334-00	(B) 220 25V elect
C647	1-161-731-00	(B) 1000p 2kV
C649	1-102-030-00	(A) 330p 500V
C651	1-123-360-00	(B) 100 50V elect
C653	1-123-316-00	(B) 10 16V elect
C701, 702	1-161-313-00	(A) 150p
C703	1-161-315-00	(A) 220p
C704	1-129-718-00	(A) 0.022 630V plastic
C705	1-130-250-00	0.1 250V polyethylene
C707	1-102-155-00	(A) 330p 2000V
C801	1-123-329-00	(B) 10 25V elect
C802	1-108-369-00	(A) 0.0022 100V mylar

Ref. No.	Part No.	Description
C803	1-130-228-00	(C) 0.011 1200V film
C804	1-102-030-00	(A) 330p 500V
C805, 806	1-130-247-00	0.033 250V polyethylene
C807	1-130-241-00	0.068 100V polyethylene
C809	1-130-272-00	0.033 100V polyethylene
C810	1-130-242-00	0.1 100V polyethylene
C811	1-123-351-00	(B) 0.47 50V elect
C812	1-130-255-00	0.01 400V polyethylene
C813	1-102-228-00	(A) 470p 500V
C814	1-102-212-00	(A) 820p 500V
C815	1-102-223-00	(A) 4700p 1600V
C817, 818	1-123-320-00	(B) 100 16V elect
C820	1-123-310-00	(B) 470 10V elect
C823	1-102-249-00	(A) 680p 2000V
C824	1-130-157-00	(B) 1 200V polyethylene
C826	1-129-949-00	(E) 1 400V polyethylene
C827	1-130-252-00	0.22 250V polyethylene
C828	1-123-024-00	(B) 33 160V elect
C829	1-123-328-00	(B) 4.7 25V elect
C830	1-130-255-00	0.01 400V polyethylene
C831	1-130-250-00	0.1 250V polyethylene
C832	1-130-242-00	0.1 100V polyethylene
C833	1-123-329-00	(B) 10 25V elect
C835	1-102-155-00	(A) 330p 2000V
C836	1-102-249-00	(A) 680p 2000V
C901	1-130-334-00	(B) 0.001 1200V
C903	1-121-257-00	(B) 4.7 16V elect

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted.

Refer to the list on the last page for their part numbers.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω

R028	1-217-394-00	(B) 39	1/4W	fusible
R048	1-202-667-00	(A) 8.2M	1/2W	composition
R052	1-206-698-00	(A) 27k	2W	metal oxide (nonflammable)
R230	1-247-008-00	(A) 180	1/4W	carbon (nonflammable)
R233, 234	1-246-875-00	(A) 33	1/2W	carbon (nonflammable)
R260	1-247-005-00	100	1/4W	carbon (nonflammable)

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>			<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>		
R518	1-212-360-00	(A) 1	1W	metal oxide (nonflammable)	R627	1-212-358-00	(B) 0.68	1W	metal oxide (nonflammable)
R519	1-213-140-00	(A) 560	1W	metal oxide (nonflammable)	R628	1-212-353-00	(B) 0.27	1W	metal oxide (nonflammable)
R520	1-213-142-00	(A) 820	1W	metal oxide (nonflammable)	R640	1-247-436-00	(A) 10k	1/8W	carbon
R522	1-244-875-00	(A) 1.2k	½W	carbon	R641	1-206-749-00	(B) 10k	3W	metal oxide (nonflammable)
R523	1-212-871-00	(A) 82	1/8W	carbon (nonflammable)	R642	1-246-979-00	(A) 1.2	1/8W	carbon (nonflammable)
R525	1-246-999-00	10	¼W	carbon (nonflammable)	R651, 652	1-246-979-00	(A) 1.2	1/8W	carbon (nonflammable)
R524	1-211-930-00	(A) 33	1/8W	carbon (nonflammable)	R710-712	1-206-692-00	(A) 15k	2W	metal oxide (nonflammable)
R526, 527	1-212-361-00	(A) 1.2	1W	metal oxide (nonflammable)	R713-715	1-244-885-00	(A) 3.3k	½W	composition
R531	1-224-926-00	(B) 150k	½W	composition	R716	1-244-939-00	(A) 560k	½W	composition
R543	1-224-942-00	(A) 120	2W	metal oxide (nonflammable)	R717	1-244-945-00	(A) 1M	½W	composition
R551	1-244-875-00	(A) 1.2k	½W	carbon	R718	1-244-843-00	(A) 56	½W	composition
R552	1-213-135-00	(A) 220	1W	metal oxide (nonflammable)	R719	1-244-937-00	(A) 470k	½W	composition
R553	1-213-124-00	(A) 27	1W	metal oxide (nonflammable)	R720	1-244-933-00	(A) 330k	½W	composition
R575	1-213-126-00	(B) 39	1W	metal oxide (nonflammable)	R721	1-244-919-00	(A) 82k	½W	composition
R601	1-217-318-00	(B) 470	5W	wirewound (nonflammable)	R724	1-244-945-00	(A) 1M	½W	composition
R603	1-214-475-00	(B) 68k	2W	metal oxide (nonflammable)	R803	1-202-897-00	(A) 10k	½W	composition
R604	1-213-160-00	(B) 27k	1W	metal oxide (nonflammable)	R809	1-213-162-00	(A) 39k	1W	metal oxide (nonflammable)
R605	1-244-943-00	(A) 820k	½W	composition	R816	1-206-733-00	(B) 2.2k	3W	metal oxide (nonflammable)
R606	1-213-161-00	(B) 33k	1W	metal oxide (nonflammable)	R818	1-202-935-00	(B) 390k	½W	composition
R623	1-206-758-00	(B) 24k	3W	metal oxide (nonflammable)	R819	1-247-040-00	(A) 1.0k	1/8W	carbon (nonflammable)
R624	1-206-758-00	(B) 24k	3W	metal oxide (nonflammable)	R820	1-212-376-00	(A) 22	W	metal oxide (nonflammable)
R625	1-206-696-00	(A) 22k	2W	metal oxide (nonflammable)	R821	1-217-375-00	(A) 1	2W	metal oxide (nonflammable)
R626	1-211-427-00	(A) 100	1/8W	carbon (nonflammable)	R822	1-244-889-00	(A) 4.7k	½W	composition
					R824	1-212-360-00	(A) 1	1W	metal oxide (nonflammable)
					R825	1-206-664-00	(A) 1k	2W	metal oxide (nonflammable)
					R827	1-213-133-00	(A) 150	1W	metal oxide (nonflammable)

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>			<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>		
R828	1-217-375-00	(A)	1	2W	metal oxide (nonflammable)	RV601	1-224-643-XX	(B)	2.2k, adjustable; 135V ADJ
R832	1-202-597-00	(A)	10k	½W	composition	RV701	1-226-105-00	(B)	220, adjustable; B. DRIVE
R833	1-202-897-00	(A)	56k	½W	composition	RV702	1-226-105-00	(B)	220, adjustable; G. DRIVE
R835	1-202-915-00	(A)	1k	2W	metal oxide (nonflammable)	RV703	1-226-157-00	(C)	1M, adjustable; G2 ADJ
					RV704	1-226-114-00	(C)	2.2M, adjustable; FOCUS	
R901	1-244-849-00	(A)	100	½W		RV801	1-223-064-00	(C)	150, adjustable; H. CENT
* R904	1-207-457-00	(A)	0.33	½W	wirewound	SWITCHES			
	1-207-462-00	(A)	0.82	½W	wirewound	S401, 402	1-552-174-00	(B)	Push, PRGR
	1-207-465-00	(A)	1.5	½W	wirewound	S403-408	1-552-174-00	(B)	Push, COLOR, PICTURE, VOLUME
	1-207-469-00	(A)	3.3	½W	wirewound	S409	1-552-174-00	(B)	Push, SEARCH
R905	1-213-125-00	(B)	33	1W	metal oxide (nonflammable)	S410	1-552-174-00	(B)	Push, FINE TUNE
RV001	1-224-645-XX	(B)	10k, adjustable; OSC			S411	1-552-174-00	(B)	Push, RESET
RV201	1-224-644-XX	(B)	4.7k, adjustable; RF AGC			S412	1-552-174-00	(B)	Push, SEARCH ON/OFF
RV202	1-224-645-XX	(B)	10k, adjustable; DET OUT			S413	1-552-174-00	(B)	Push, AUTOMATIC PROGRAMMING
RV301	1-224-645-XX	(B)	10k, adjustable; SUB BRT			S451	1-516-473-XX	(C)	Slide, AFT
RV302	1-224-641-XX	(B)	470, adjustable; SMB			S901	1-552-116-00	(D)	Push, POWER
RV303	1-224-644-XX	(B)	4.7k, adjustable; APC			MISCELLANEOUS			
RV304	1-224-642-XX	(B)	1k, adjustable; PHASE			F601	1-532-465-11	(C)	Fuse, 3.15AT
RV305	1-222-344-00	(A)	5k, adjustable; R. BKG			J901A, B	1-507-539-11	(B)	Jack, EARPHONE
RV306	1-222-344-00	(A)	5k, adjustable; G. BKG			NL701	1-519-108-XX	(B)	Lamp, Neon Ass'y
RV307	1-222-344-00	(A)	5k, adjustable; B. BKG			SF201	1-404-208-00	(F)	Filter, SAWF; 39MHz
RV308	1-224-644-XX	(B)	4.7k, adjustable; SUB COLOR			SP901	1-502-650-00	(G)	Speaker, 8Ω
RV451	1-224-554-00	(B)	20k, variable; BRIGHTNESS			V901	8-737-602-05	(Z)	Picture Tube 570EB22
RV452	1-226-102-00	(B)	5k, variable; TONE			X301	1-527-530-00		Radiator, crystal; 4.43MHz
RV453	1-224-554-00	(B)	20k, variable; SUB VOL1				1-226-271-00	(L)	Resistor Ass'y, high-voltage
RV501	1-224-972-00	(B)	20k, variable; V. HOLD				1-452-032-00	(A)	Magnet, disk; 10mm dia
RV502	1-222-807-XX	(B)	20k, adjustable; V. SIZE				1-452-133-00	(B)	Magnet, rotatable disk; 15mm dia
RV503	1-221-970-XX	(B)	500, adjustable; V. CENT				1-526-086-XX	(B)	Socket, picture tube
RV504	1-221-956-XX	(B)	50k, adjustable; PIN AMP				1-536-473-00	(I)	Terminal, antenna
RV505	1-224-642-XX	(B)	1k, adjustable; H. SIZE				1-551-270-00		Cord, power
RV506	1-222-807-XX	(B)	20k, adjustable; Y. BOW						
RV509	1-221-970-XX	(B)	500, adjustable; H. AMP						
RV510	1-222-344-00	(A)	5k, adjustable; H. TILT						
RV511	1-224-640-XX	(B)	330, adjustable; PIN PHASE						

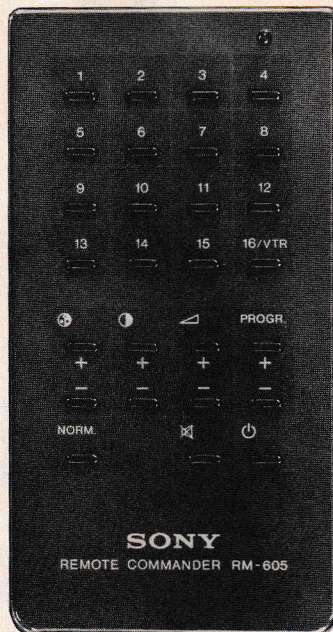
* : selected to yield optimum performance.

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

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
A-1470-313-A	Commander Ass'y, RM-605
1-504-034-72	Ⓒ Earphone, ME-20B
3-701-362-01	Ⓐ Label, tack
3-701-540-00	Ⓐ Label, tack
3-701-627-00	Ⓐ Bag, polyethylene
4-323-926-00	Ⓒ Cushion, upper; right
4-323-927-00	Ⓒ Cushion, upper; left
4-323-928-00	Ⓒ Cushion, lower; right
4-323-929-00	Ⓒ Cushion, lower; left
4-323-939-00	Ⓐ Spacer
4-323-940-00	Ⓒ Sheet, protect
4-336-429-00	Carton
4-495-824-11	Manual, instruction

RM-605



REMOTE COMMANDER

SPECIFICATIONS

Remote Control System:	Infrared control
Power Requirements:	6 V dc Battery size "AA" (IEC designation R6) 4 pcs.
Semiconductors:	2 transistors, 3 diodes and 1 IC
Dimensions:	Approx. 75 (w) x 40 (h) x 135 (d) mm 3 (w) x 1 $\frac{5}{8}$ (h) x 5 $\frac{3}{8}$ (d) inches including projecting parts and controls
Weight:	Approx. 215 g (8 oz) including batteries
Accessories Supplied:	Battery size "AA" (IEC designation R6) 4 pcs.

1. MOUNTING DIAGRAM

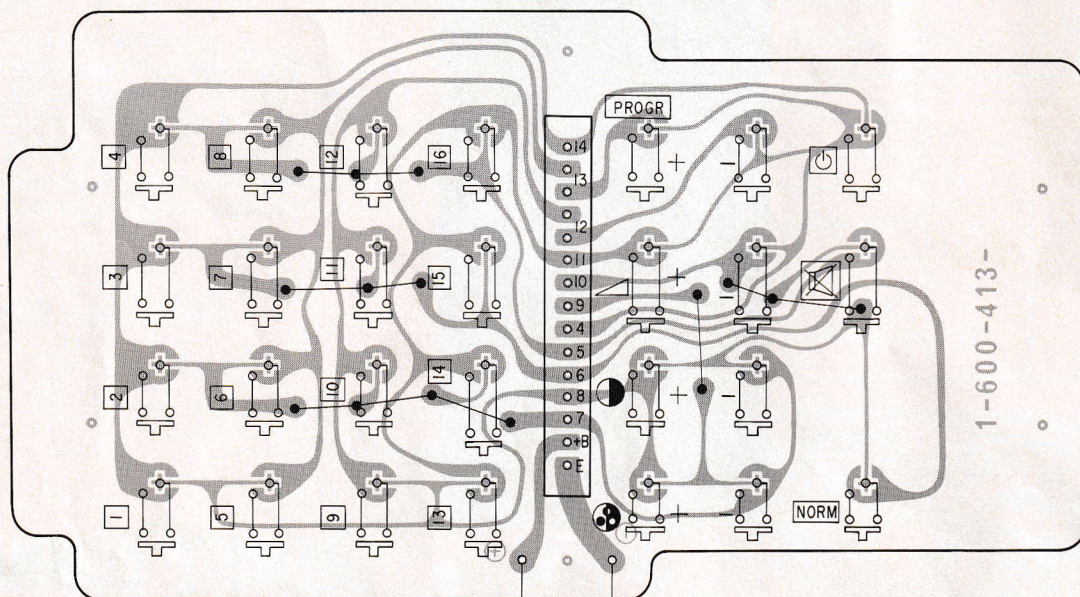
A

B

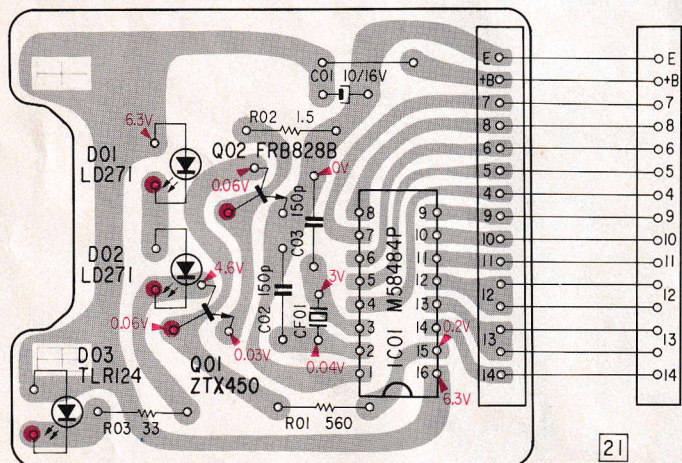
C

D

R2 board

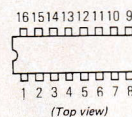


R1 board

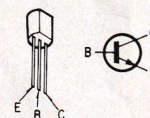


RED BLK
BATTERY SIZE "AA"
(IEC DESIGNATION)
R6
4PCS 6V

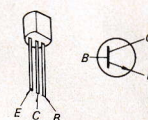
M58484P



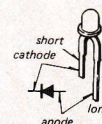
ZTX450



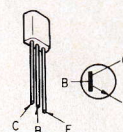
2SC1364



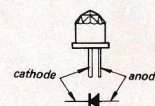
TLR124



FRB828B

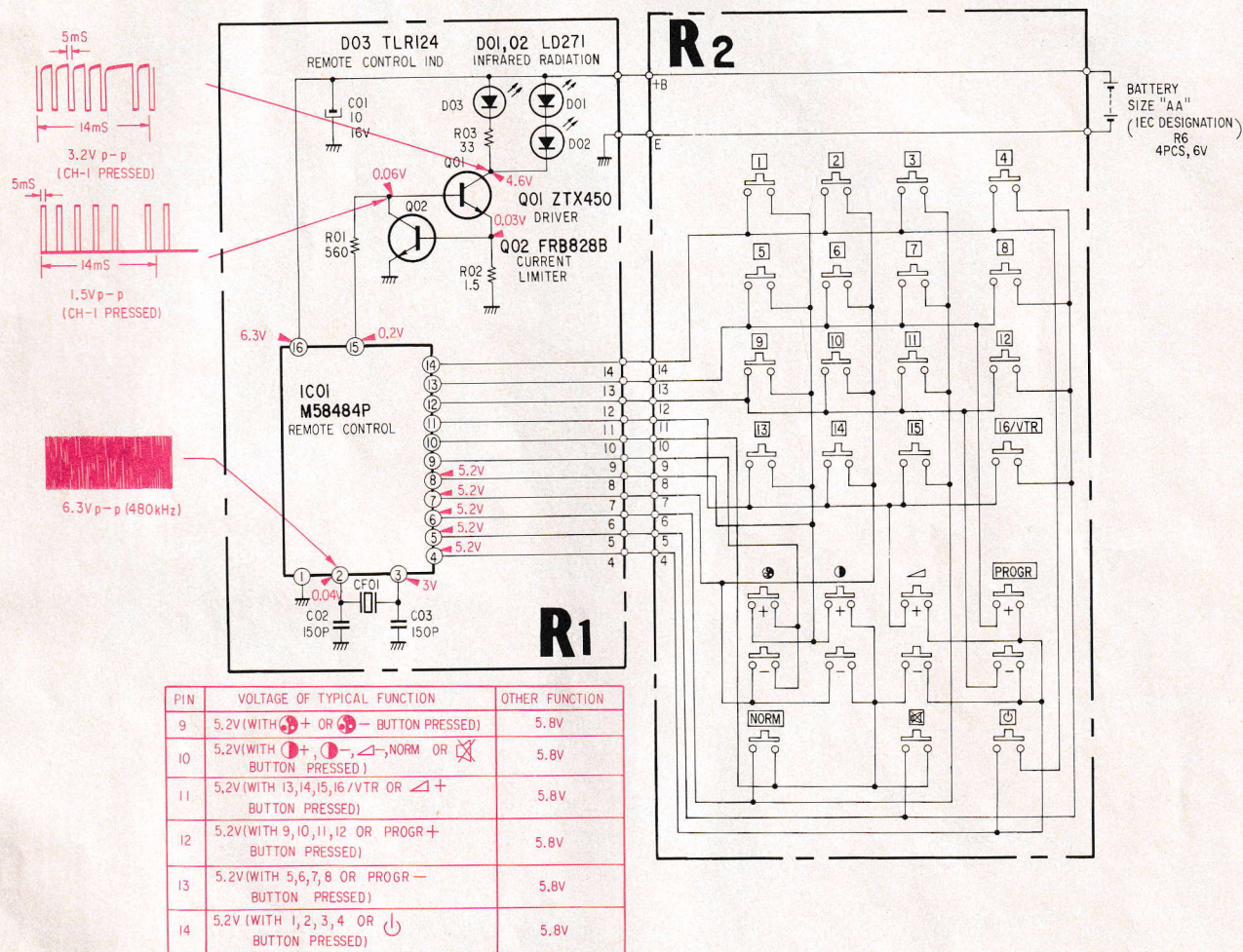


LD271
SE303A



Note: • —: parts extracted from the component side.
• —: parts extracted from the conductor side.

2. SCHEMATIC DIAGRAM



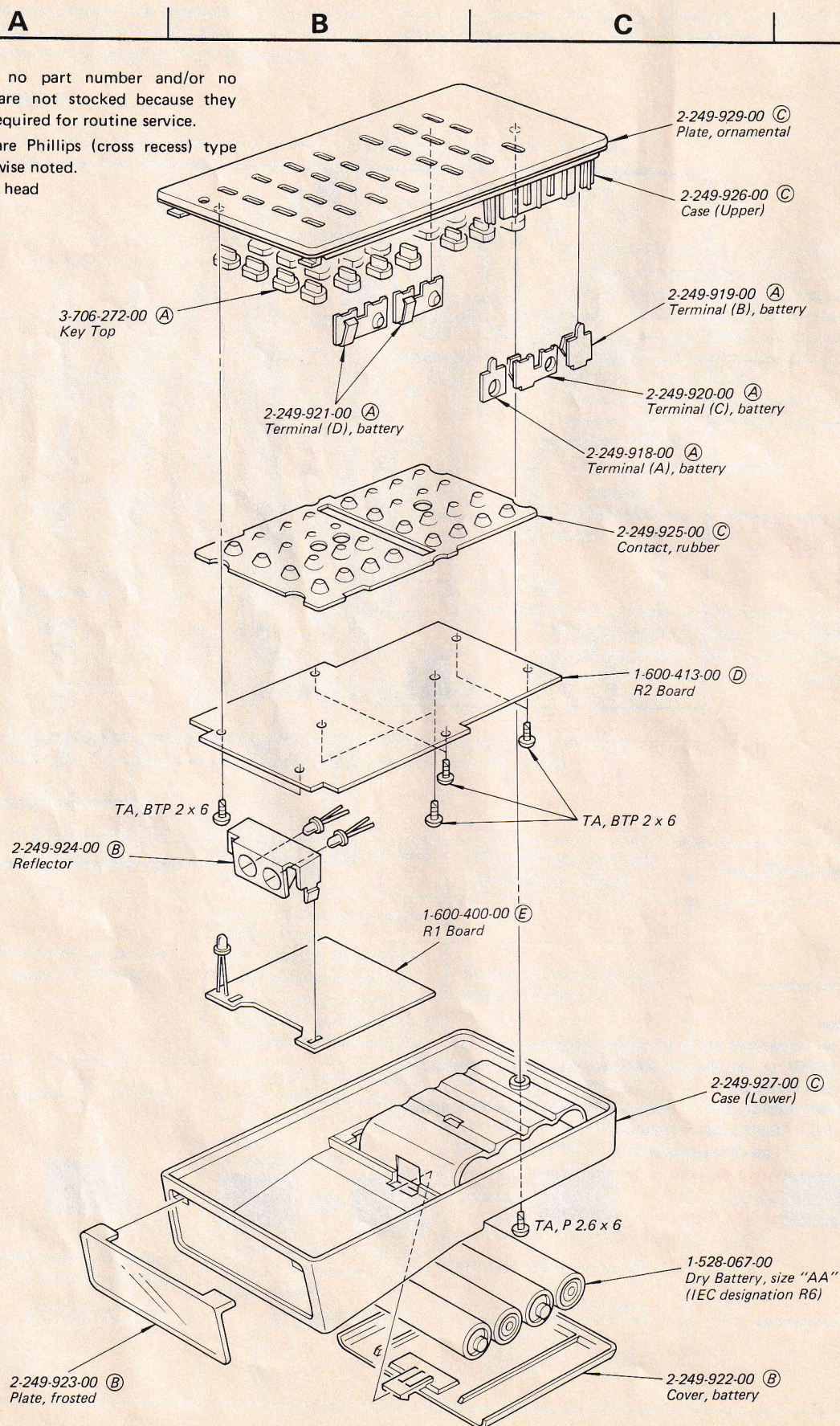
Note:

- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- : panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.

3. EXPLODED VIEW

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
 (—) = slotted head



4. ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
-----------------	-----------------	--------------------

CIRCUIT BOARDS

	1-600-400-00	R1 Board
	1-600-413-00	Ⓓ R2 Board

SEMICONDUCTORS**Transistors**

⇒ Q01, 02	8-729-663-47	Ⓒ 2SC1364
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Diodes

⇒ D01, 02	8-719-103-03	Ⓒ SE303A
D03	8-719-812-41	Ⓑ TLR124

FILTER

CF01	1-527-476-00	Ⓑ Ceramic
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CAPACITORS

C01	1-131-199-00	Ⓑ 10μF	16V	electrolytics
C02, 03	1-161-313-00	Ⓐ 150pF	25V	ceramic

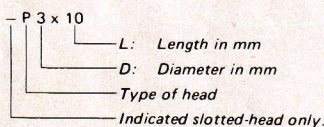
⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

1/4 WATT CARBON RESISTORS (A)

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	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
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00
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
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
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	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

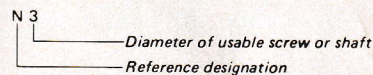
HARDWARE NOMENCLATURE

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	
RK		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	

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