

STR-V4

US Model
Canadian Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

- Power Requirements:** 120 V, 60 Hz
- Power Consumption:** 105 W (US model)
170 W (Canadian model)
- AC Outlets:** 1 switched, 100 W
1 unswitched, 300 W
- Dimensions:** Approx. 500 (w) x 145 (h) x 395 (d) mm
19³/₄ (w) x 5³/₄ (h) x 15¹/₂ (d) inches
- Weight:** Approx. 13.5 kg, 29 lb 12 oz (net)
Approx. 15.6 kg, 34 lb 6 oz (in shipping carton)

FM TUNER SECTION

- Antenna:** 300 Ω balanced
75 Ω unbalanced
- Frequency Range:** 87.5 MHz – 108 MHz
- Intermediate Frequency:** 10.7 MHz
- Sensitivity at 50 dB Quieting:** 16.4 dBf, 3.6 μ V (11.2 dB) (MONO)
37.9 dBf, 43 μ V (32.5 dB) (STEREO)
- Usable Sensitivity:** 10.8 dBf, 1.9 μ V (5.5 dB)
- S/N Ratio:** 72 dB (MONO)
68 dB (STEREO)

Harmonic Distortion:

	MONO	STEREO
100 Hz	0.15 %	0.25 %
1 kHz	0.15 %	0.25 %
10 kHz	0.2 %	0.5 %

IM Distortion:

MONO	STEREO
0.15 %	0.25 %

- Separation:** 40 dB at 100 Hz
47 dB at 1 kHz
35 dB at 10 kHz
32 dB at 50 Hz – 15 kHz

– Continued on page 2 –

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE \triangle 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.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND \triangle 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.

SONY[®]

SERVICE MANUAL

STR-V4

Frequency Response: 30 Hz — 15 kHz ± 1 / -2 dB

Sensitivity: 60 dB at 400 kHz

Capture Ratio: 1.0 dB

AM Suppression Ratio: 55 dB

Image Response Ratio: 45 dB

IF Response Ratio: 95 dB

Spurious Response Ratio: 75 dB

RF Intermodulation: 60 dB

Sub-carrier Product Ratio: 40 dB

Muting Threshold: Approx. 5 μ V

AM TUNER SECTION

Antenna: Built-in ferrite-rod antenna
External antenna terminal

Frequency Range: 530 kHz — 1,605 kHz

Intermediate Frequency: 455 kHz

Usable Sensitivity: 200 μ V/m (46 dB/m), built-in antenna
100 μ V (40 dB), external antenna
at 1,000 kHz

S/N Ratio: 50 dB at 50 mV/m

Harmonic Distortion: 0.5% at 50 mV/m, 400 Hz

Selectivity: 35 dB

Image Response Ratio: 40 dB at 1,000 Hz

IF Response Ratio: 40 dB at 1,000 Hz

AUDIO AMPLIFIER SECTION

Power Output and Total Harmonic Distortion: With 8 Ω loads, both channels driven, from 20 — 20,000 Hz; rated 55 W per channel minimum RMS power, with no more than 0.1% total harmonic distortion from 250 mW to rated output.

Damping Factor: 40 at 1 kHz, 8 Ω

IM Distortion: Less than 0.1% at rated output
(60 Hz : 7 kHz = 4 : 1) Less than 0.07% at 1 W output

Residual Noise: Less than 0.3 mV (A-network)

Frequency Response: PHONO
RIAA equalization curve ± 0.8 dB
TAPE 1, 2
5 Hz — 50 kHz ± 0.5 / -2 dB

Inputs: Measured with rated output power into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

	Sensitivity	Impedance	S/N	Weighting Network
PHONO	2.5 mV (-50 dB)	50 k Ω	75 dB	A
TAPE 1, 2	150 mV (-14.5 dB)	50 k Ω	100 dB	A

Outputs: With rated input, FM 30% modulation, speaker rated output.

	Voltage	Impedance
REC OUT 1, 2	150 mV (-14.5 dB)	4.7 k Ω
HEADPHONES	Accepts 8 Ω to 10 k Ω headphones	
SPEAKER	8 Ω to 16 Ω speakers are suitable	

Tone Controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

High Filter: 6 dB/oct. above 6 kHz

Loudness Control (att. 30 dB): +10 dB at 50 Hz
+3 dB at 10 kHz

MODEL IDENTIFICATION

— Specification Label —

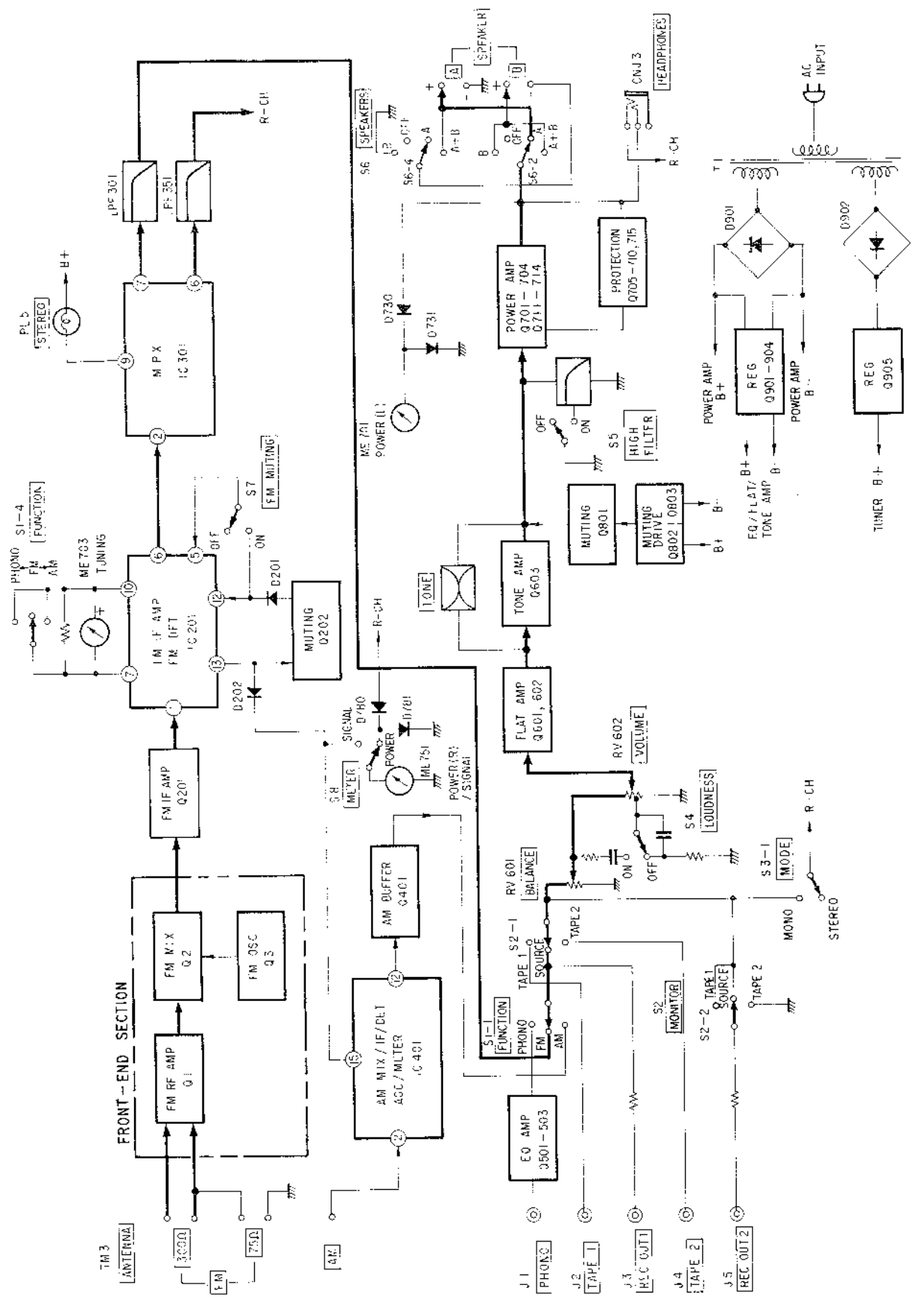
US model

SONY <small>ASCO</small>	FM STEREO / FM-AM RECEIVER	
	MODEL NO. STR-V4	
	FREQ. RANGE	: FM 87.5 — 108 MHz AM 530 — 1605 kHz
	IF	: FM 10.7 MHz AM 455 kHz
	AC	120V 60Hz 105W
SERIAL NO. _____ MADE IN JAPAN		
CERTIFICATION: DESIGN CERTIFIED AS COMPLYING WITH F.C.C. RULES PART 15, IN EFFECT AS OF DATE OF MANUFACTURE.		

Canadian model

SONY <small>ASCO</small>	FM STEREO / FM-AM RECEIVER	
	MODEL NO. STR-V4	
	FREQ. RANGE	: FM 87.5 — 108 MHz AM 530 — 1605 kHz
	IF	: FM 10.7 MHz AM 455 kHz
	AC	120V 60Hz 170W
SERIAL NO. _____ MADE IN JAPAN		

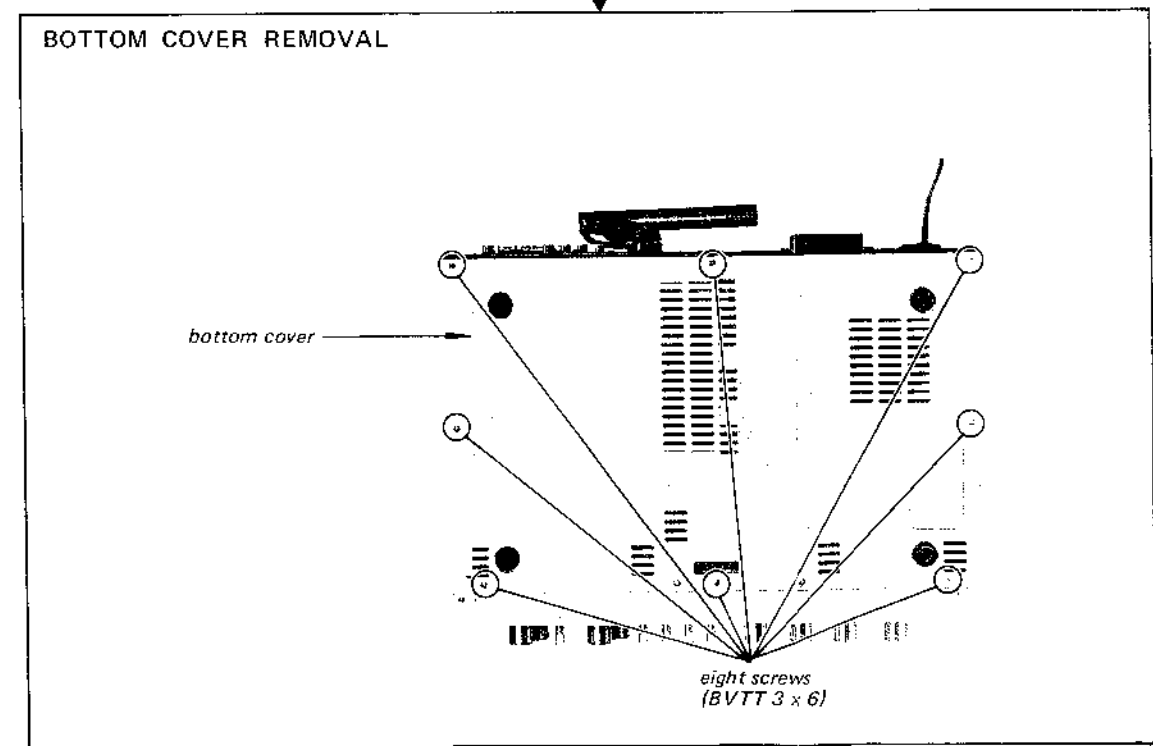
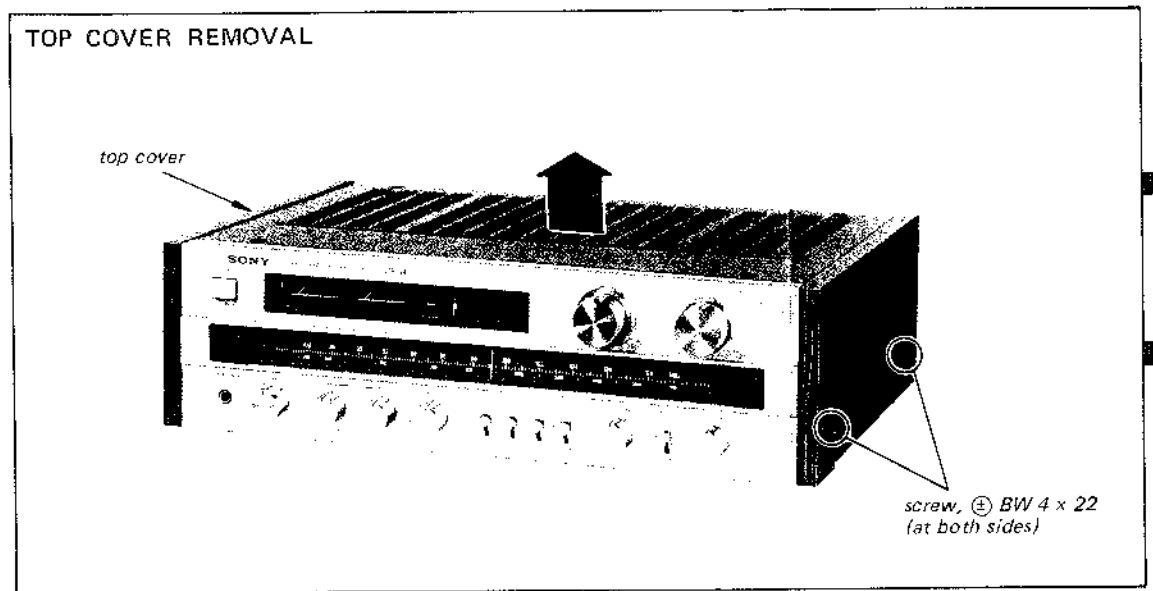
SECTION 1
BLOCK DIAGRAM



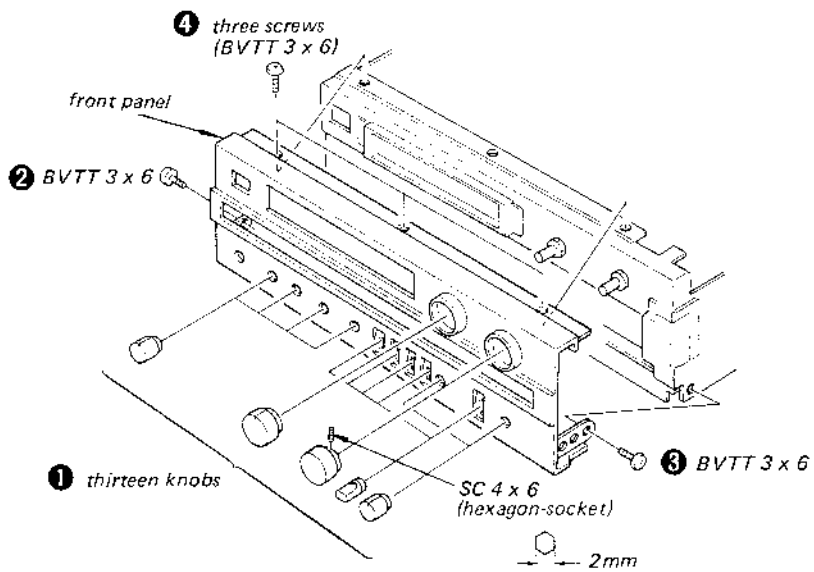
SECTION 2
DISASSEMBLY

2-1. REMOVAL

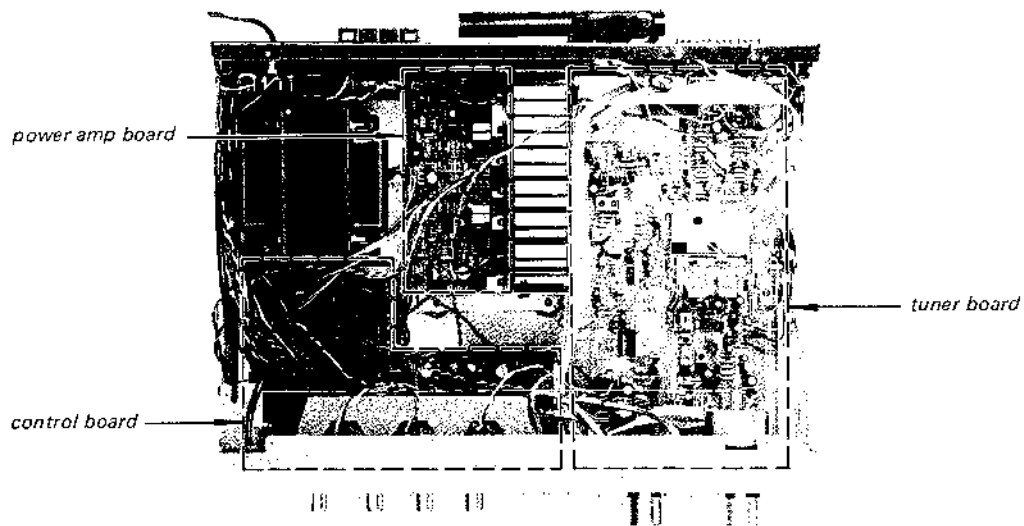
- Follow the disassembly procedure in the numerical order given.



FRONT PANEL REMOVAL



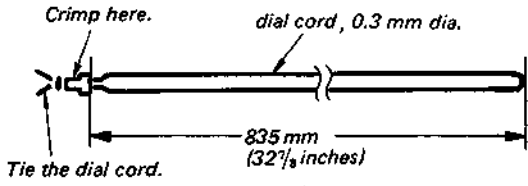
CIRCUIT BOARD CHECKING (COMPONENT SIDE)



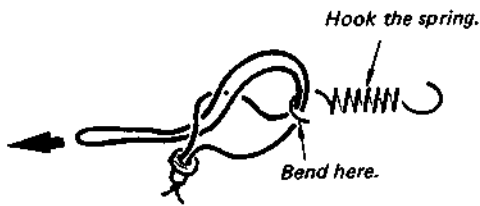
CIRCUIT BOARD CHECKING (CONDUCTOR SIDE)

2-2. DIAL CORD STRINGING

1) Dial Cord Preparation

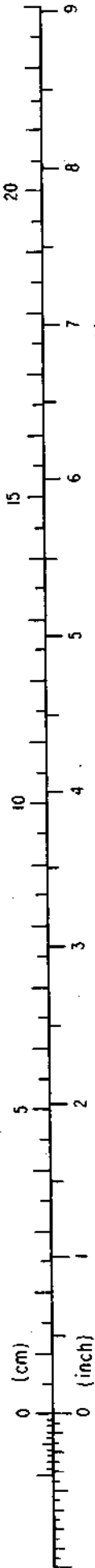
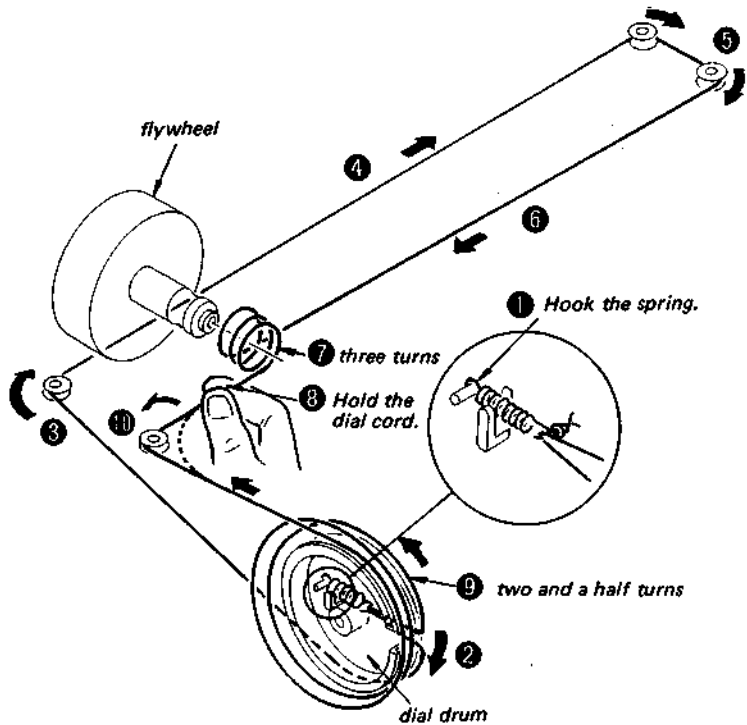


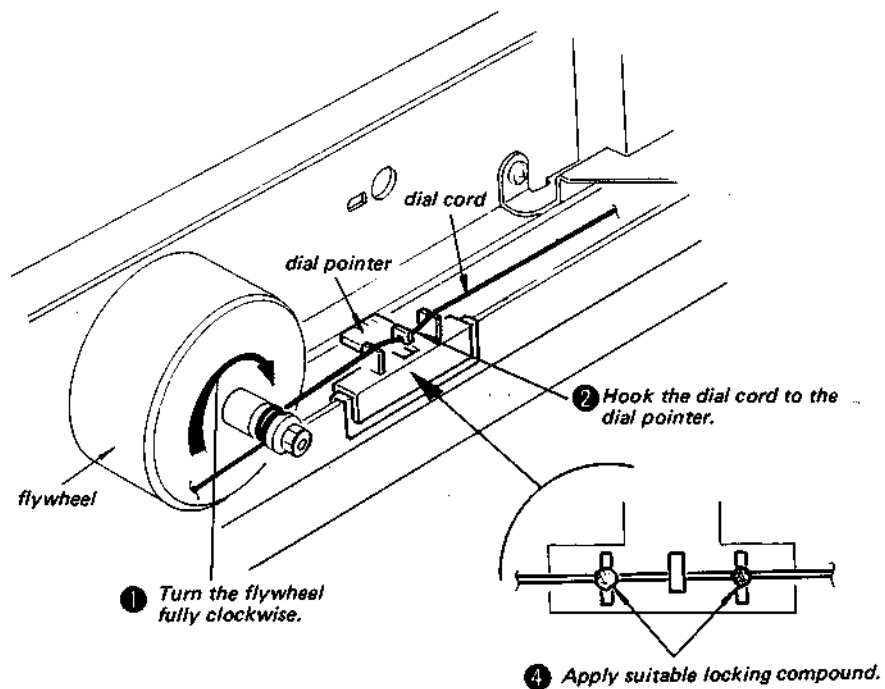
2) Dial Spring Installation



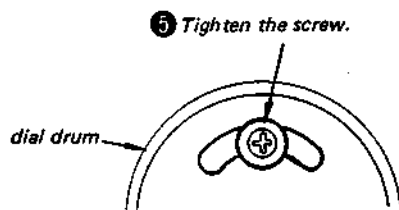
3) Dial Cord Stringing

Turn the dial drum fully counterclockwise.



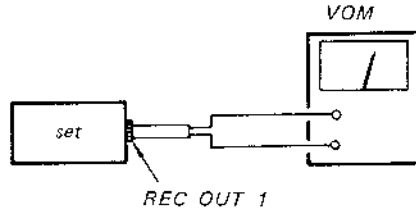
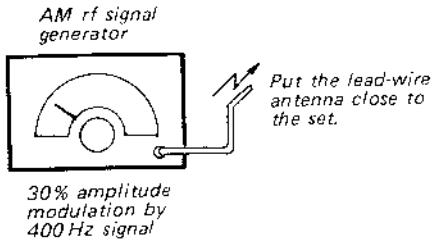
4) Dial Pointer Installation

- 3 Set the dial pointer at "108.8 MHz", and confirm that the screw of dial drum is at the center of the hole as shown below.



**SECTION 3
ADJUSTMENTS**

3-1. AM SECTION



— tuner board —

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

FRONT-END SECTION
The front-end section has been carefully adjusted at the factory, so that adjustment is unnecessary in the field.

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM.	
L1	600 kHz
CT5	1,400 kHz

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM.	
CT4	1,605 kHz
T401	530 kHz

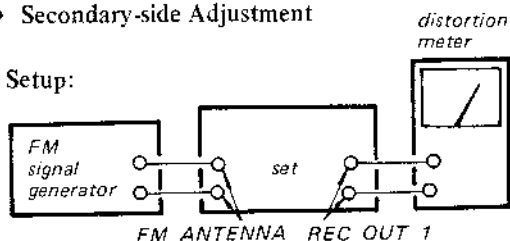
No adjustment is necessary.
IFT401
CFT401

3-2. FM SECTION

Discriminator Adjustment

• **Secondary-side Adjustment**

Setup:



FM Signal Generator Setting:

- Carrier frequency: 98 MHz
- Output level: 1 mV (60 dB)
- Modulation: 400 Hz, 75 kHz deviation (100%)

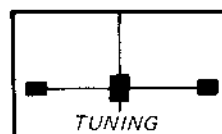
Procedure:

1. Tune the set to 98 MHz.
2. Adjust the secondary-side core (black) of IFT201 for a minimum reading on the distortion meter.

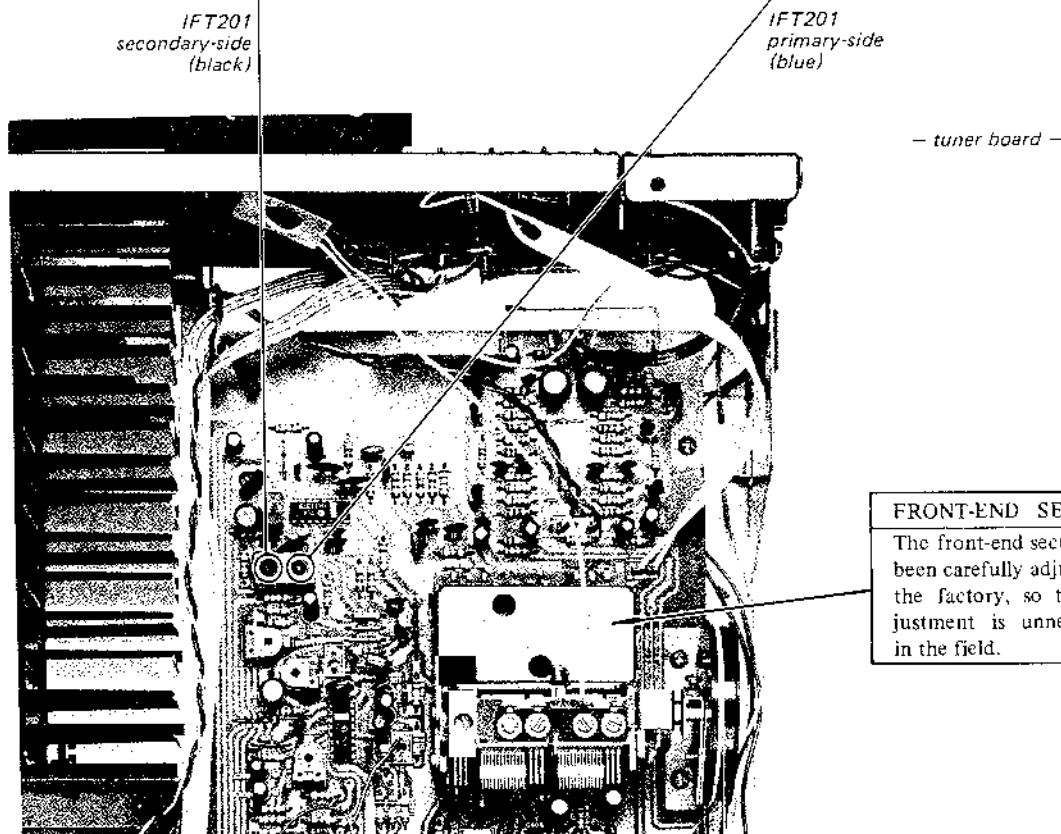
• **Primary-side Adjustment**

Procedure:

1. Detune the set.
2. Adjust the primary-side core (blue) of IFT201 for the center position on the TUNING meter.



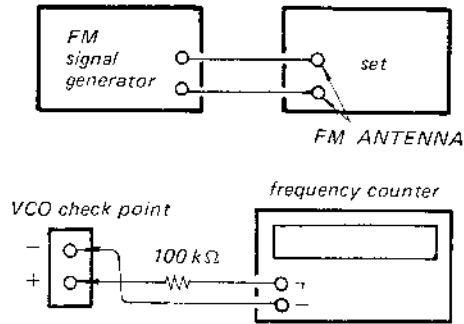
Note: Repeat the secondary-side and primary-side adjustments several times.



VCO Adjustment

A) With Frequency Counter

Setup:



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: no modulation

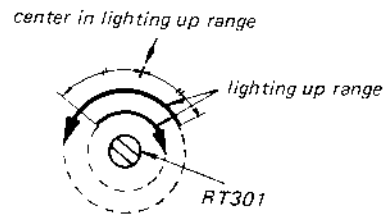
Procedure:

1. Tune the set to 98 MHz.
2. Adjust RT301 for 19 kHz \pm 100 Hz on the frequency counter.

B) Without Frequency Counter

Procedure:

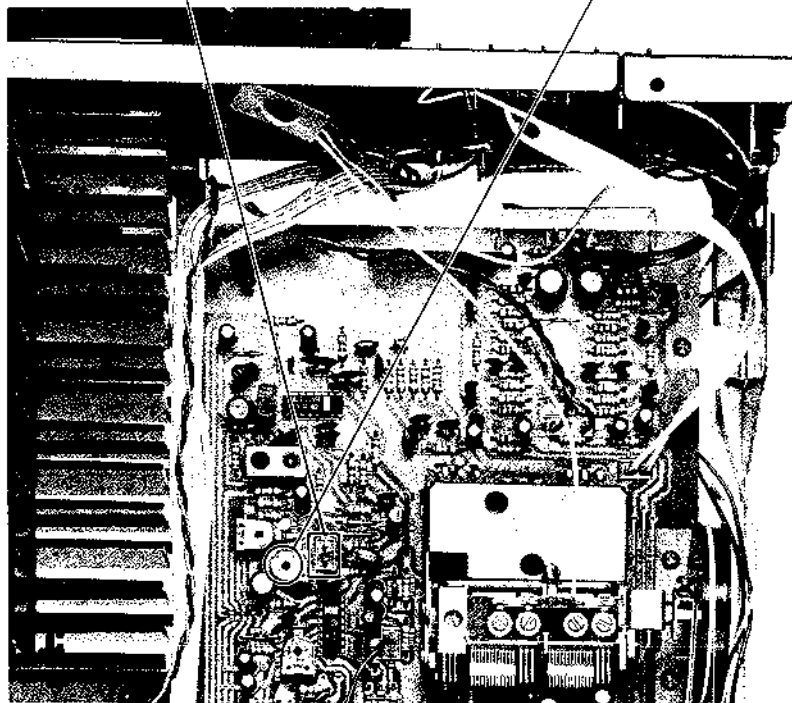
1. Tune the set to FM stereo broadcasting signal.
2. Turn RT301 clockwise or counterclockwise and secure RT301 at the center in lighting-up range of STEREO lamp as shown below.



VCO check point

RT301

— tuner board —

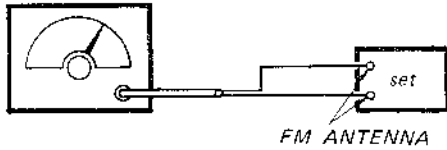


Signal Meter Calibration

Setup:

METER switch: SIGNAL

FM
signal
generator

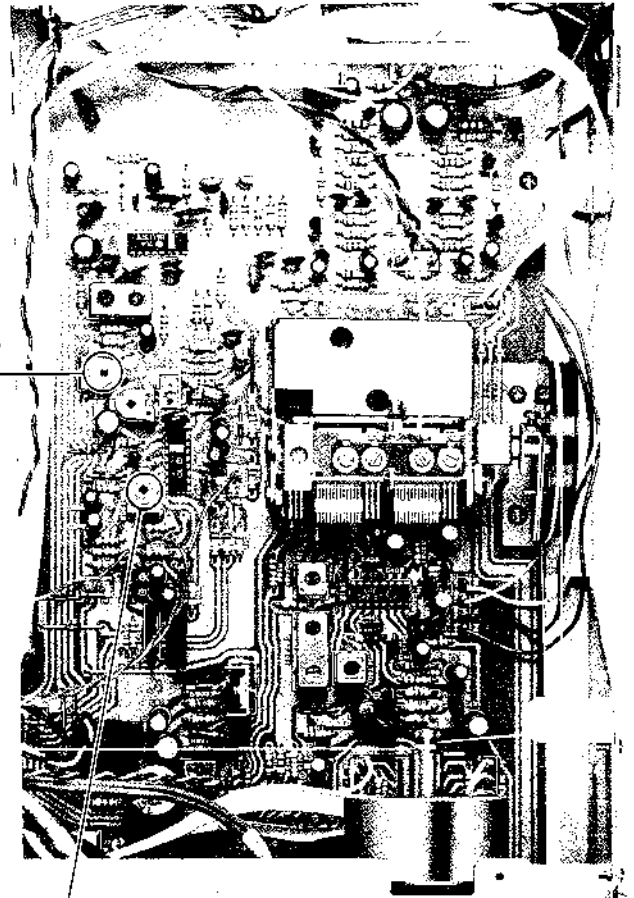
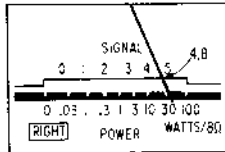


FM Signal Generator Setting:

Carrier frequency: 98 MHz
Output level: 3.2 mV (70 dB)
Modulation: no modulation

Procedure:

Tune the set to 98 MHz and adjust RT201 for specified pointer position on the SIGNAL meter. (See figure below.)



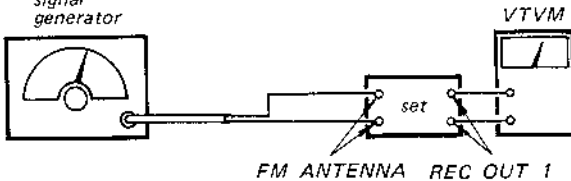
- tuner board -

FM Stereo Separation Adjustment

Setup:

MODE switch: FM STEREO

FM stereo
signal
generator



FM Stereo Signal Generator Setting:

Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (400 Hz): 33.75 kHz deviation (45%)
Pilot (19 kHz): 7.5 kHz deviation (10%)

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT302 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT302 for minimum reading.

L-CH Stereo separation: (A) - (B)

R-CH Stereo separation: (C) - (D)

The difference between separations of both channels should be equal.

3-3. AUDIO SECTION

DC Bias Adjustment

Setup:

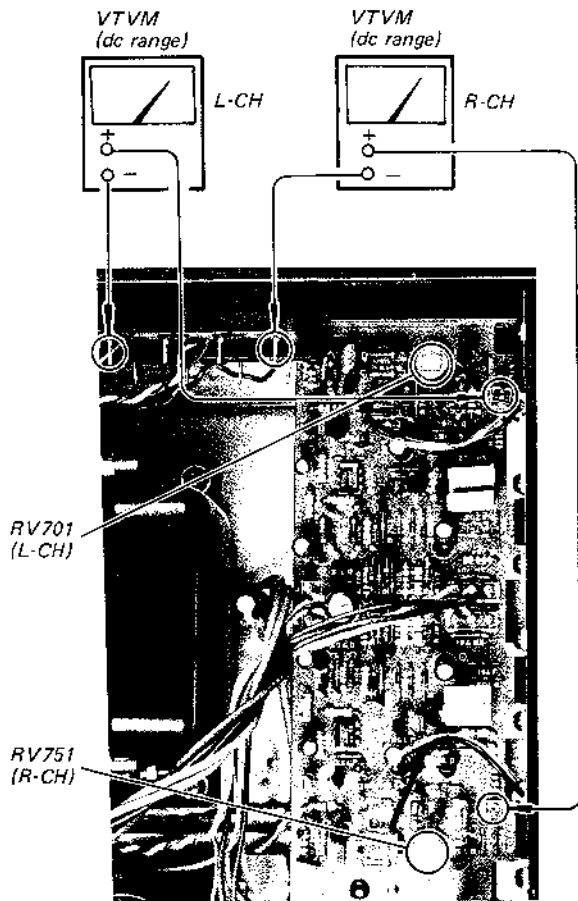
1. Detune the set.
2. Perform this adjustment one minute or more later after turning the POWER switch "ON".

Procedure:

1. Adjust RV701 (L-CH) and RV751 (R-CH) for 22 mV reading on the VTVM.

Adjustment Location:

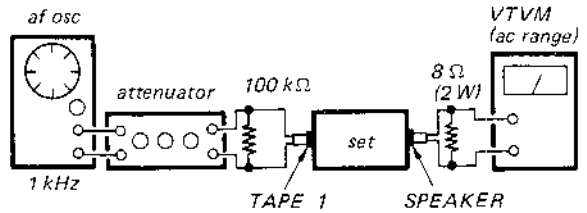
— power amp board —



Power Meter Calibration

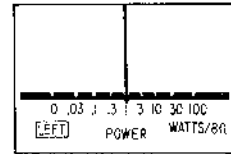
Setup:

- MONITOR switch: TAPE 1
METER switch: POWER



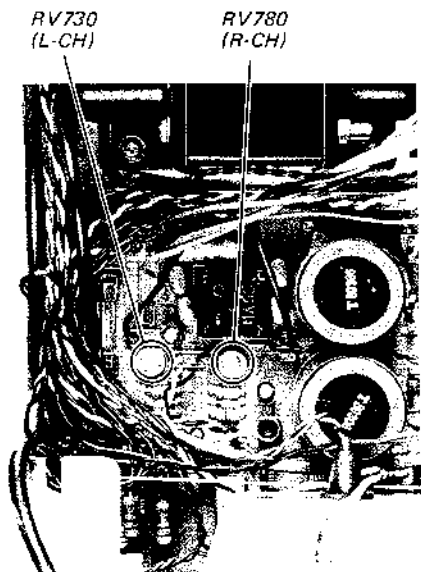
Procedure:

1. Turn the VOLUME control fully clockwise.
2. Adjust the attenuator for 2.83 V (1 W) reading on the VTVM.
3. Adjust RV730 (L-CH) and RV780 (R-CH) so that the POWER meter indicates 1 W.



Adjustment Location:

— control board —



SECTION 4
DIAGRAMS

41. MOUNTING DIAGRAM

- Conductor Side -

Note:

Color code of coloring over this end of the jacket.

Parts are located from the center of the slide.

Q701, 751: 2SA4094

IC901: HA1138
ICAO1: LA1249

Q703, 753: 2SA993 (2SB848A)

D201, 251
D301, 301
D601, 601 : 1N1265
D758-709
D758-759

Q704, 754: 2SD1811 (2SD868A)
Q711, 761: 2SD667 (2SD667A)
Q715, 801: 2SD667

D700-703 : 1N562 (1N561)
D730, 720
D731, 751 : 1N122AM (1N121)
D801

Q712, 762: 2SB847 (2SB847A)
Q755, 802: 2SB847

D701, 751: 3CV127

Q713, 763: 2SD735

D702, 752: 3V348 (3V348F)

Q714, 764: 1S3639

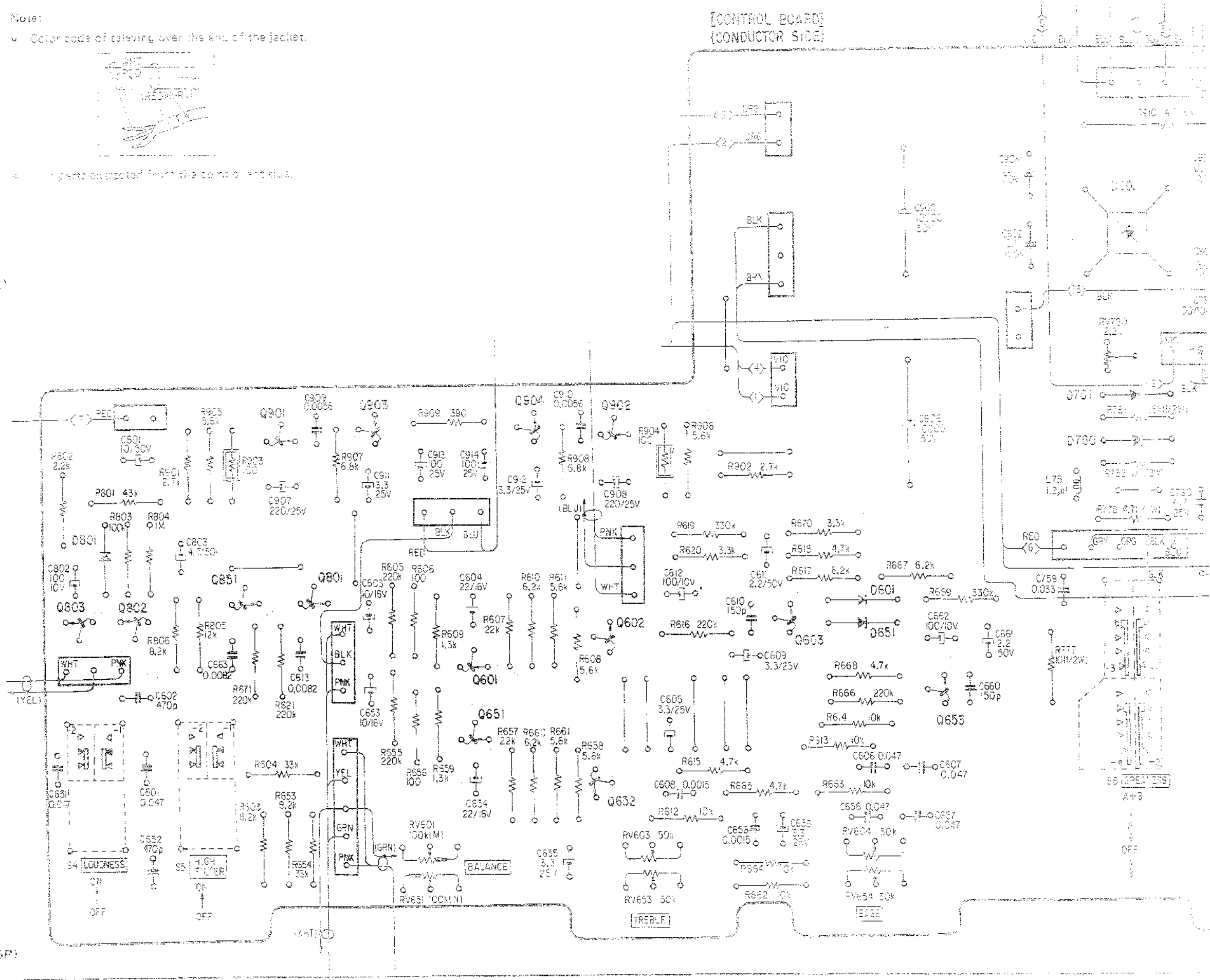
D901: 65V520 (65V5)

Q905: 2SD1826

D802: 91R810

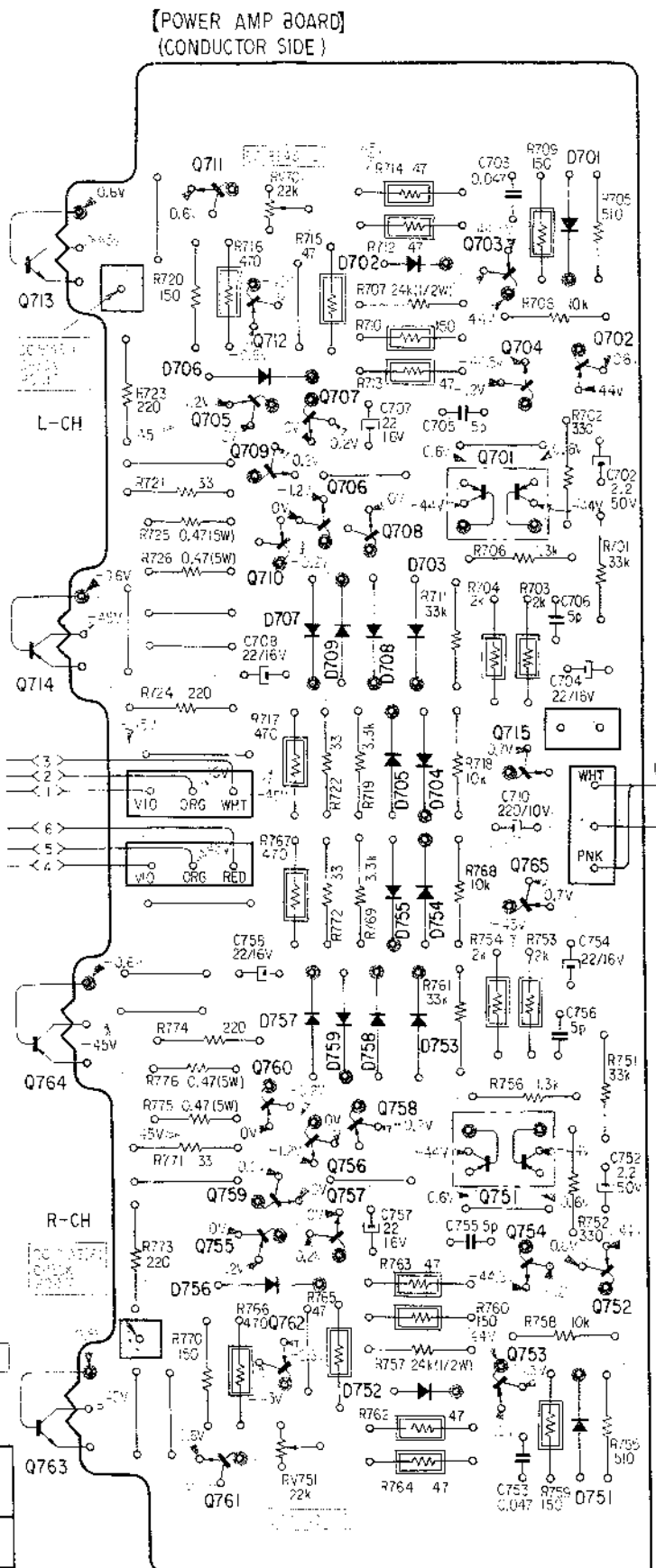
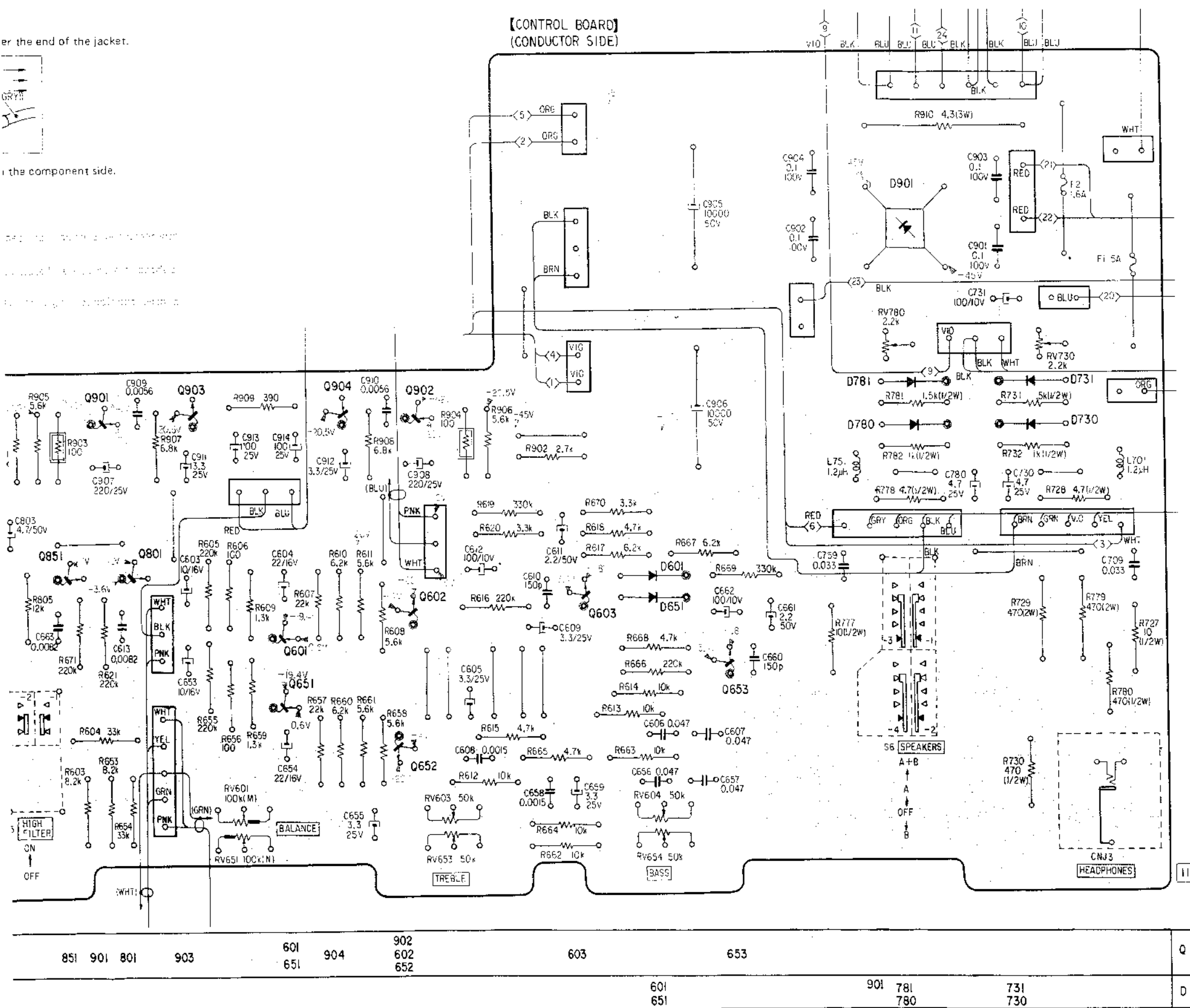
IC201: HA1137W (HA1137)

D903: 50S01-78 (RQA01-16P)



MOUNTING DIAGRAM
- Conductor Side -

...er the end of the jacket.
...the component side.
...
...
...
...



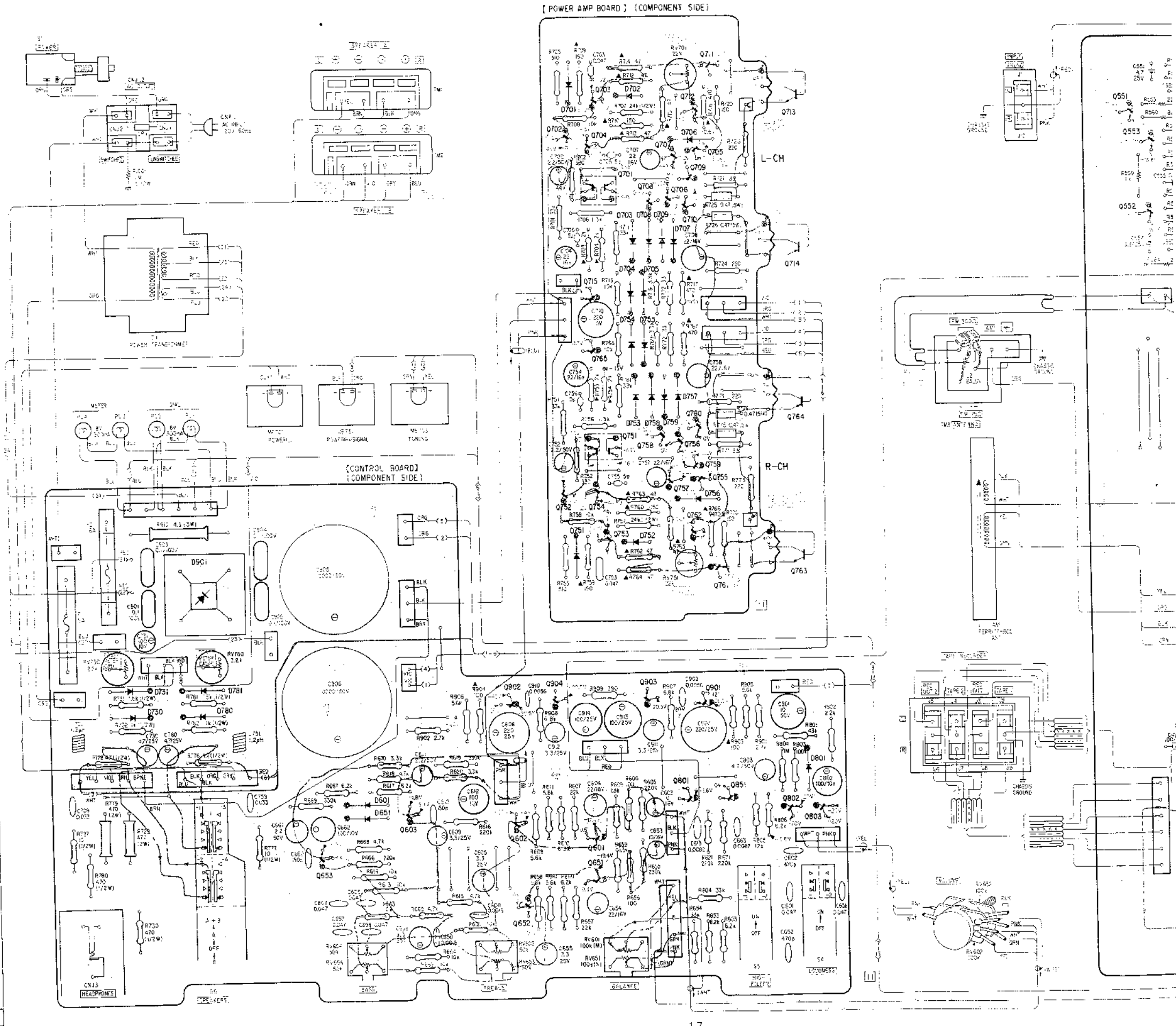
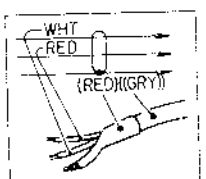
Q	D
711	701
703	702
713	
712	
702	706
704	
705	
707	
709	
701	
706	
708	
710	
	707
	709
	708
	703
	715
	705
	704
	765
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	752
	756
	762
	753
	752
	763
	751
	761
Q	D

4-2. MOUNTING DIAGRAM

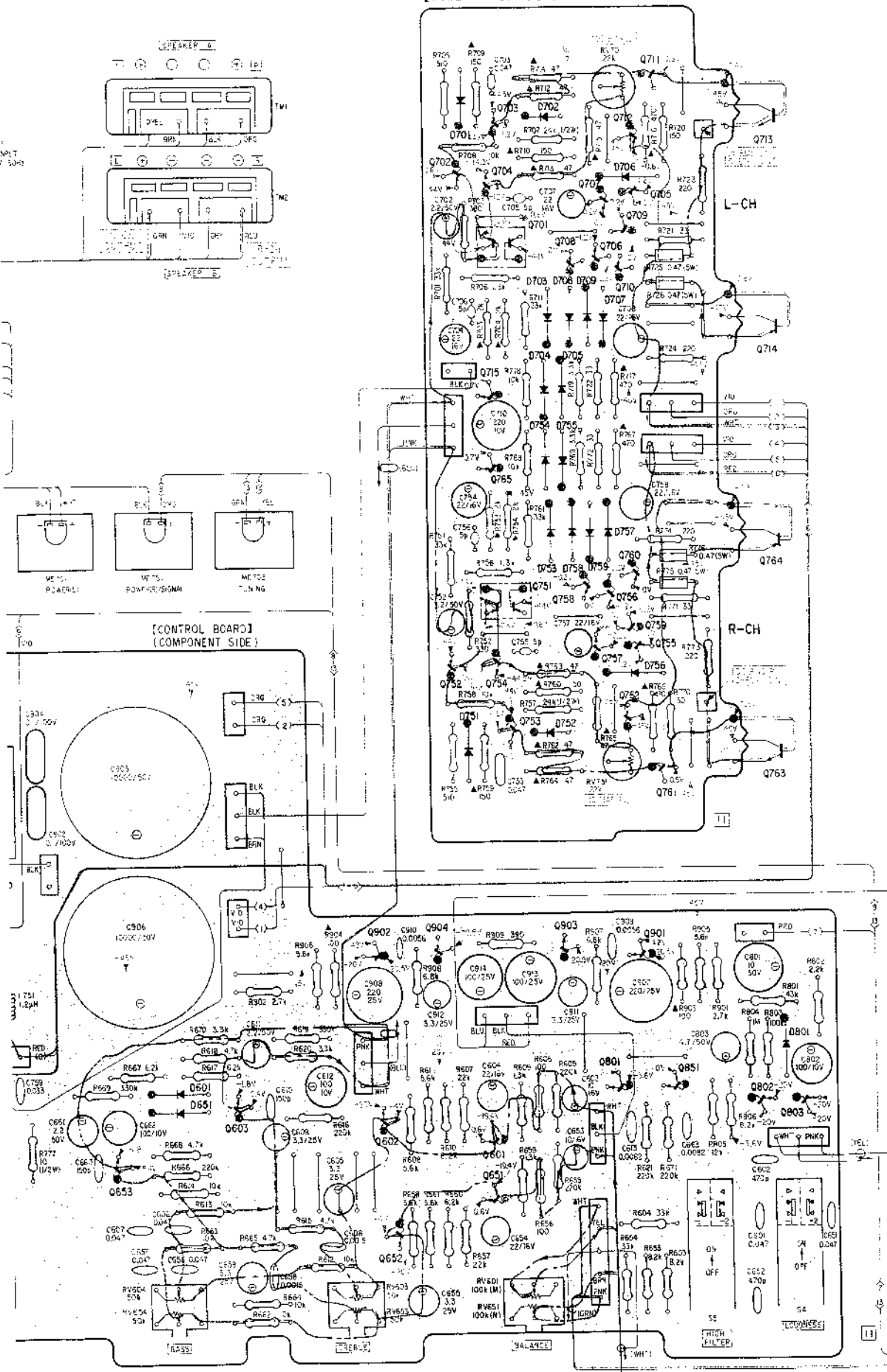
Q	D
711	701
705 713 712	702
702 704 705 707	705
709	
701	
706 710	
714	703 708 709 707
715	704 705
765	754 755
764	753 758 759 757
758 756	
751	
759 755	
754 752	
752	756
755 762 752	
763 751	
751	901
731 781	
904 903 901	730 780
801	
801 851	601
603 832 803	651
602	
601	
653	
651	
652	
0	0

Note:

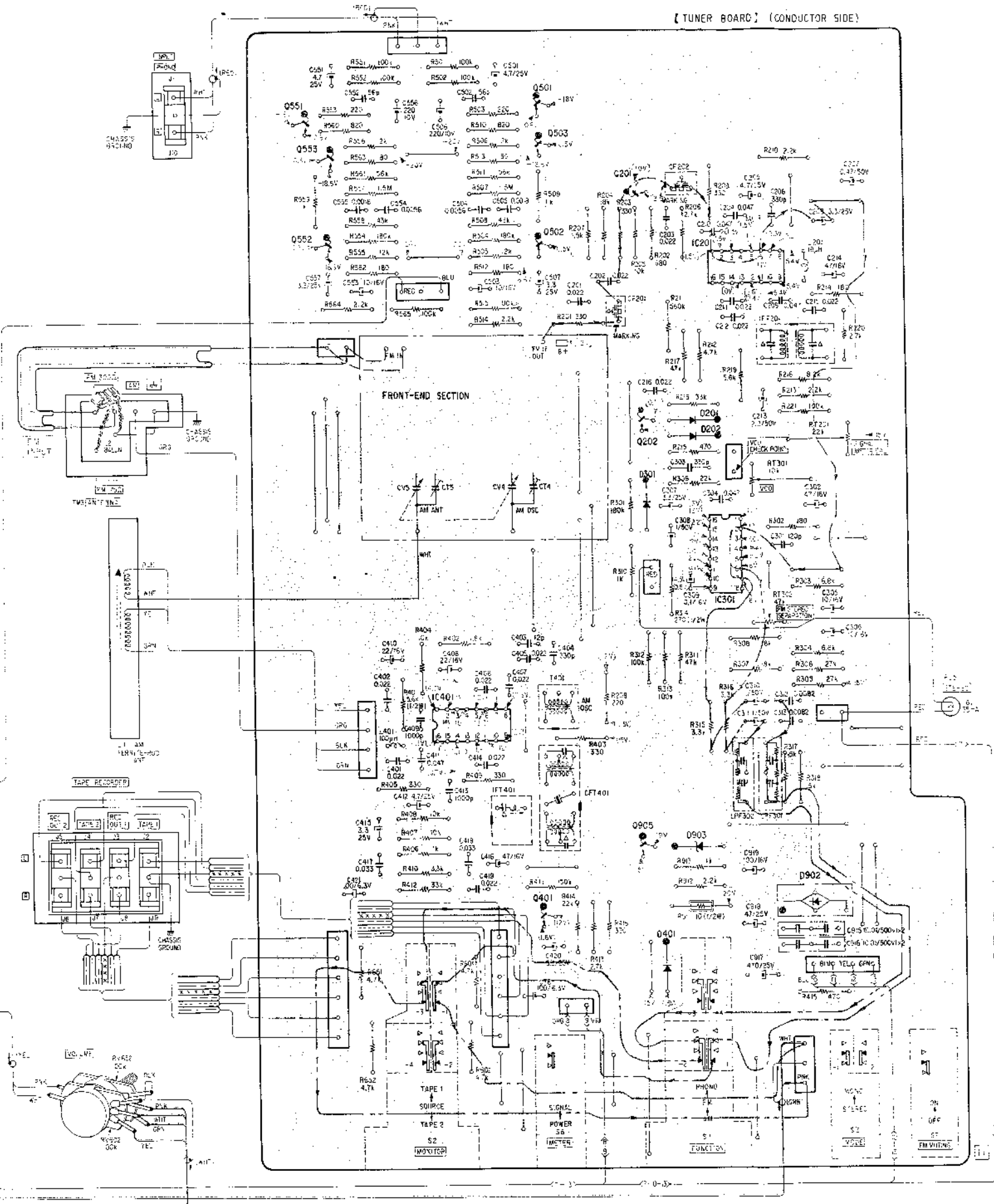
- Color code of sleeving over the end of the jacket.
- [Symbol] : parts extracted from the component side.
- [Symbol] : indicates side identified with part number.
- [Symbol] : bit pattern.
- Signal Path:
 - FM
 - L-CH audio
 - R-CH audio
 - L-CH or R-CH audio
- ▲ : nonflammable resistor.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to tolerance or production tolerances.
- Readings are taken under no signal condition with a 100V rms (141V) AC.
- [Symbol] : AM
- [Symbol] : FM
- [Symbol] : common
- [Symbol] : FM STEREO
- [Symbol] : S3 (MODE) ON/OFF
- [Symbol] : S7 (FM MUTE) ON/OFF



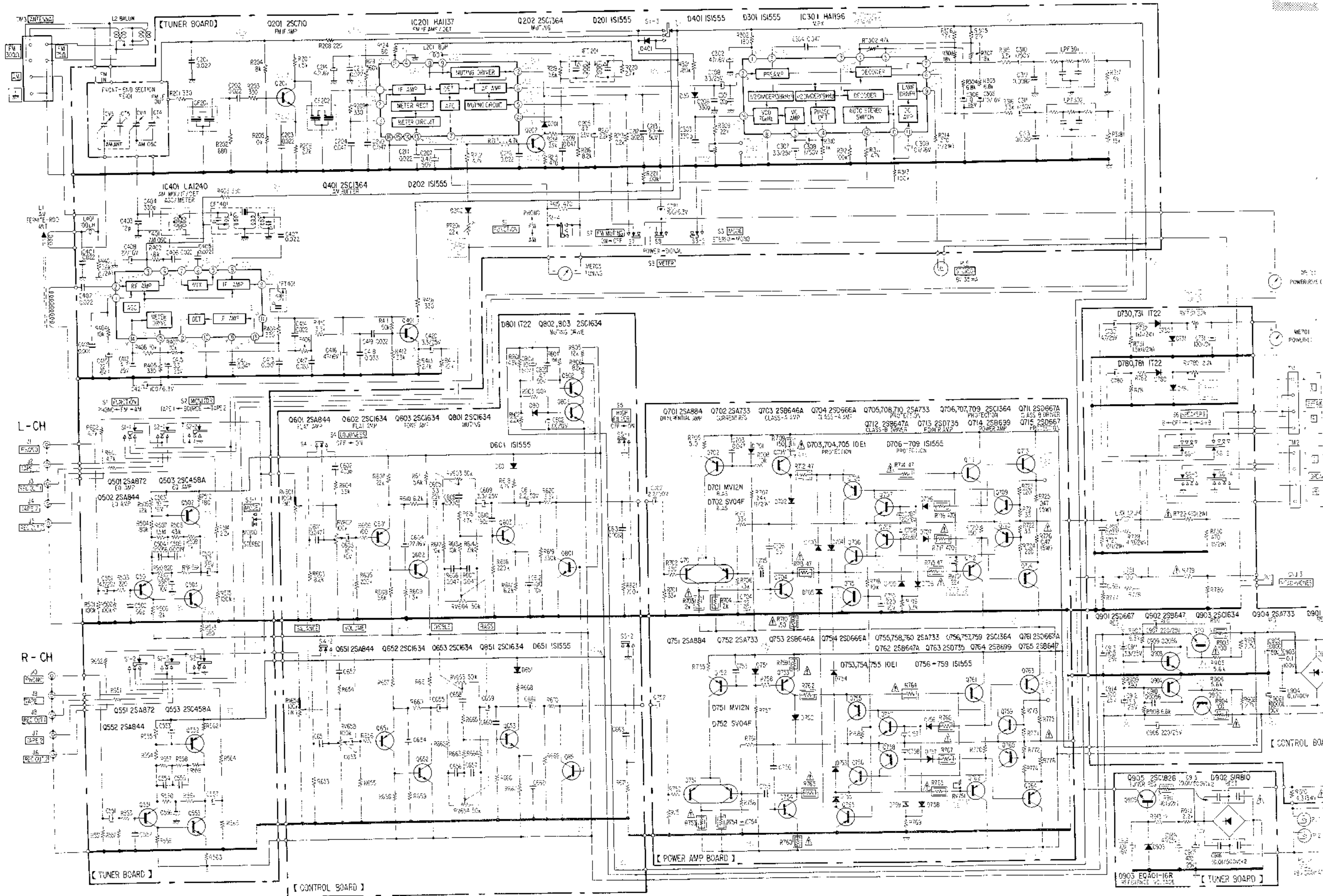
[POWER AMP BOARD] (COMPONENT SIDE)



[TUNER BOARD] (CONDUCTOR SIDE)

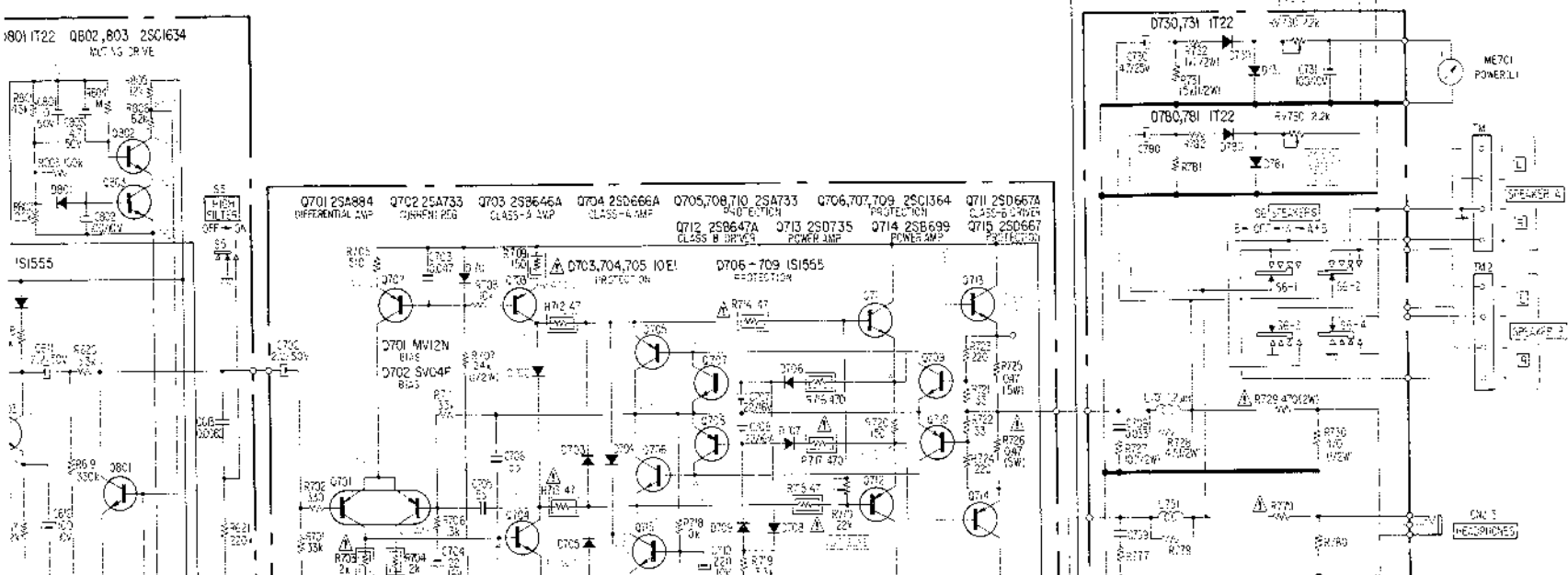
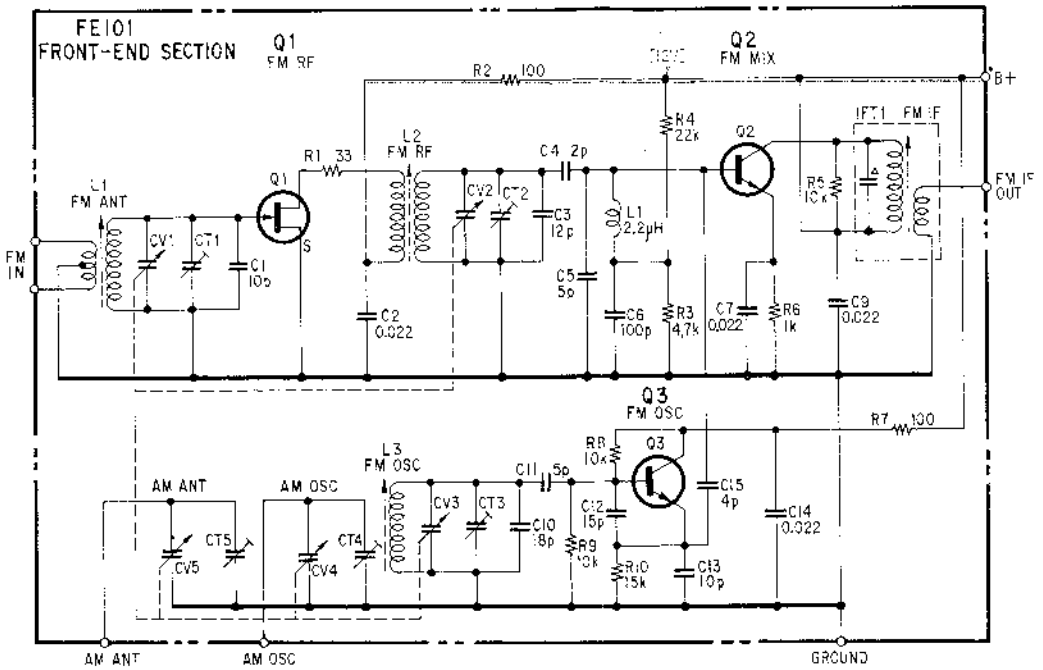
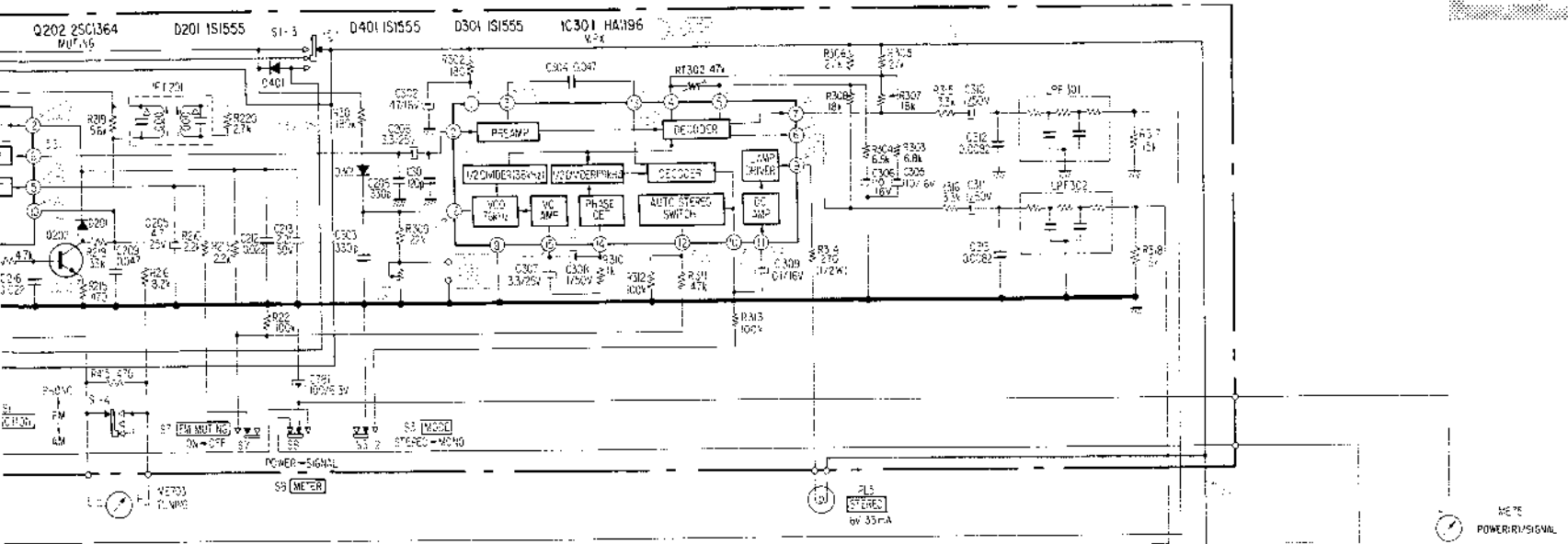


D	Q, IC
	5S1 501
	553 503
	201
	552 502
	IC201
201	202
202	
301	IC301
	C401
903	905
902	401
401	
D	Q, IC



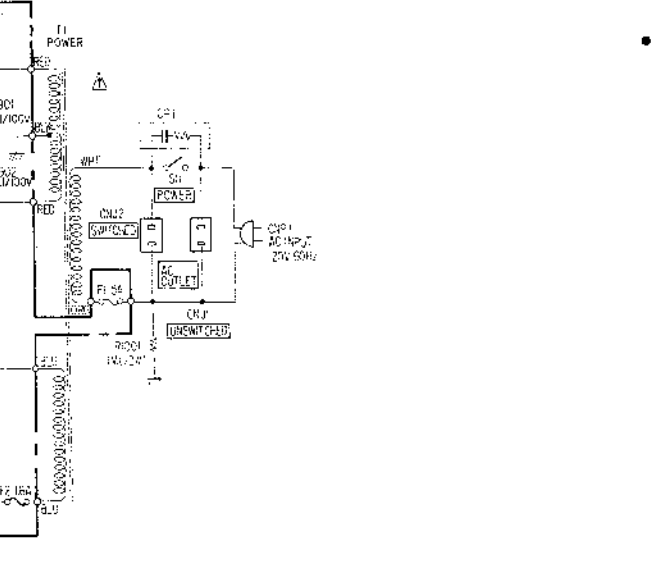
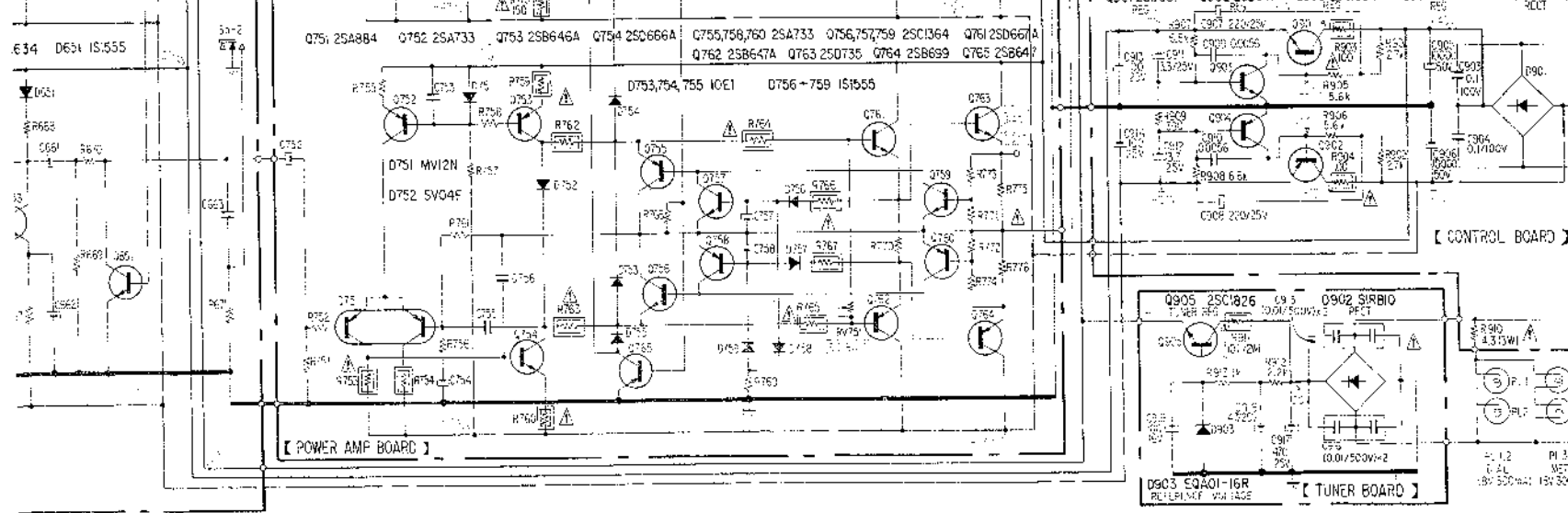
Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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



- Note:**
- Components for right channel have same values as for left channel. Reference numbers are coded from 551, 651, or 751.
 - All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
 - All resistors are in ohms, $\frac{1}{2}$ W unless otherwise noted. $\text{k}\Omega = 1000 \Omega$, $\text{M}\Omega = 1000 \text{k}\Omega$.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - \square : nonflammable resistor.
 - Δ : internal component.
 - \square : panel designation.

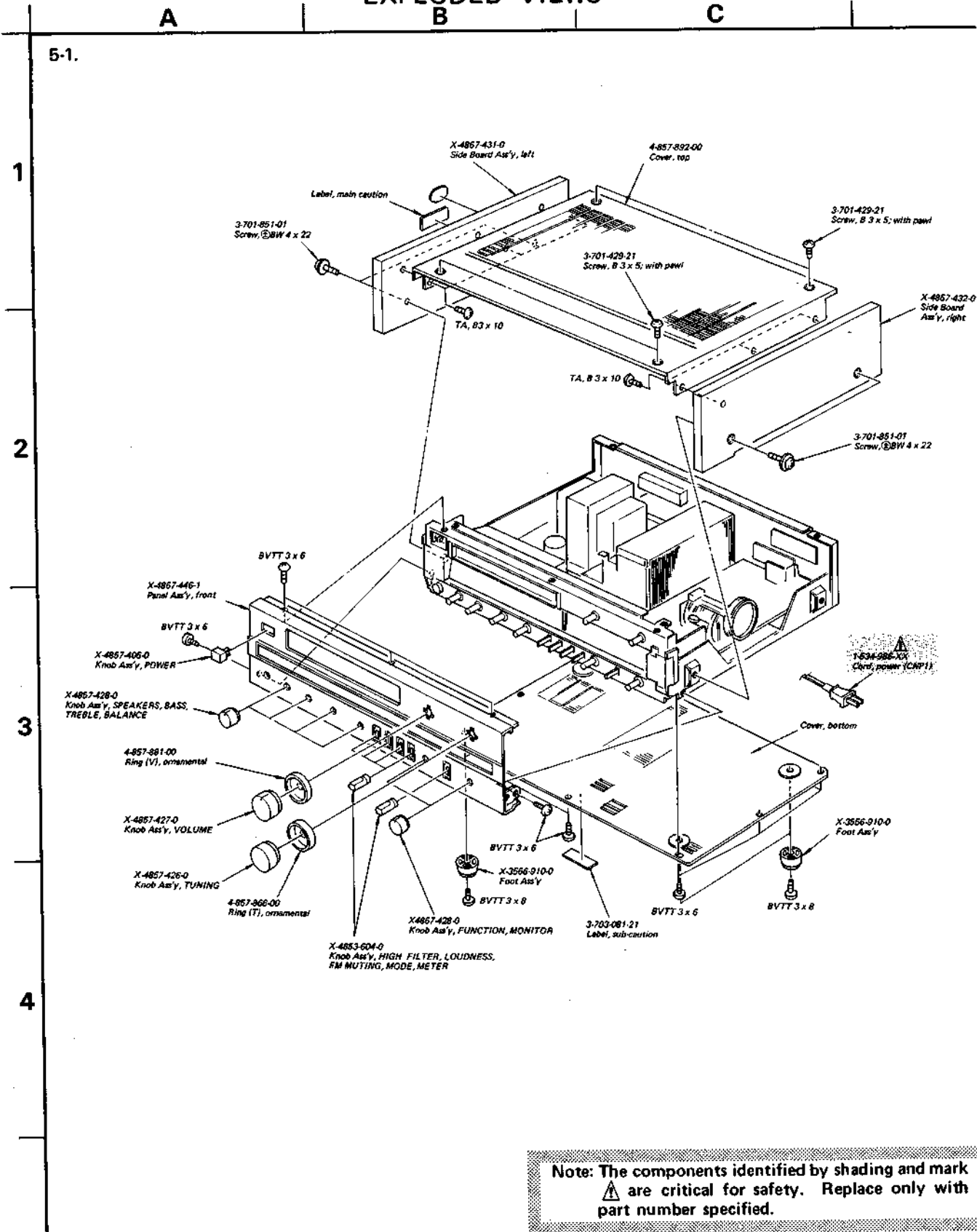
- \square : application for resin.
- Voltage are to earth (ground) unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Resistor and capacitor values are given in standard values (E24, E96, E192).
- \square : panel designation.
- \square : FM MODE
- \square : STEREO MODE



• Switch

Ref. No.	Switch	Position
S1-1 to 4	FUNCTION	FM
S2-1 to 4	MONITOR	SOURCE
S3-1, 2	MODE	STEREO
S4-1, 2	LOUDNESS	OFF
S5-1, 2	HIGH FILTER	OFF
S6-1 to 4	SPEAKERS	A
S7	FM MUTING	OFF
S8	METER	POWER
S11	POWER	OFF

SECTION 5
EXPLODED VIEWS

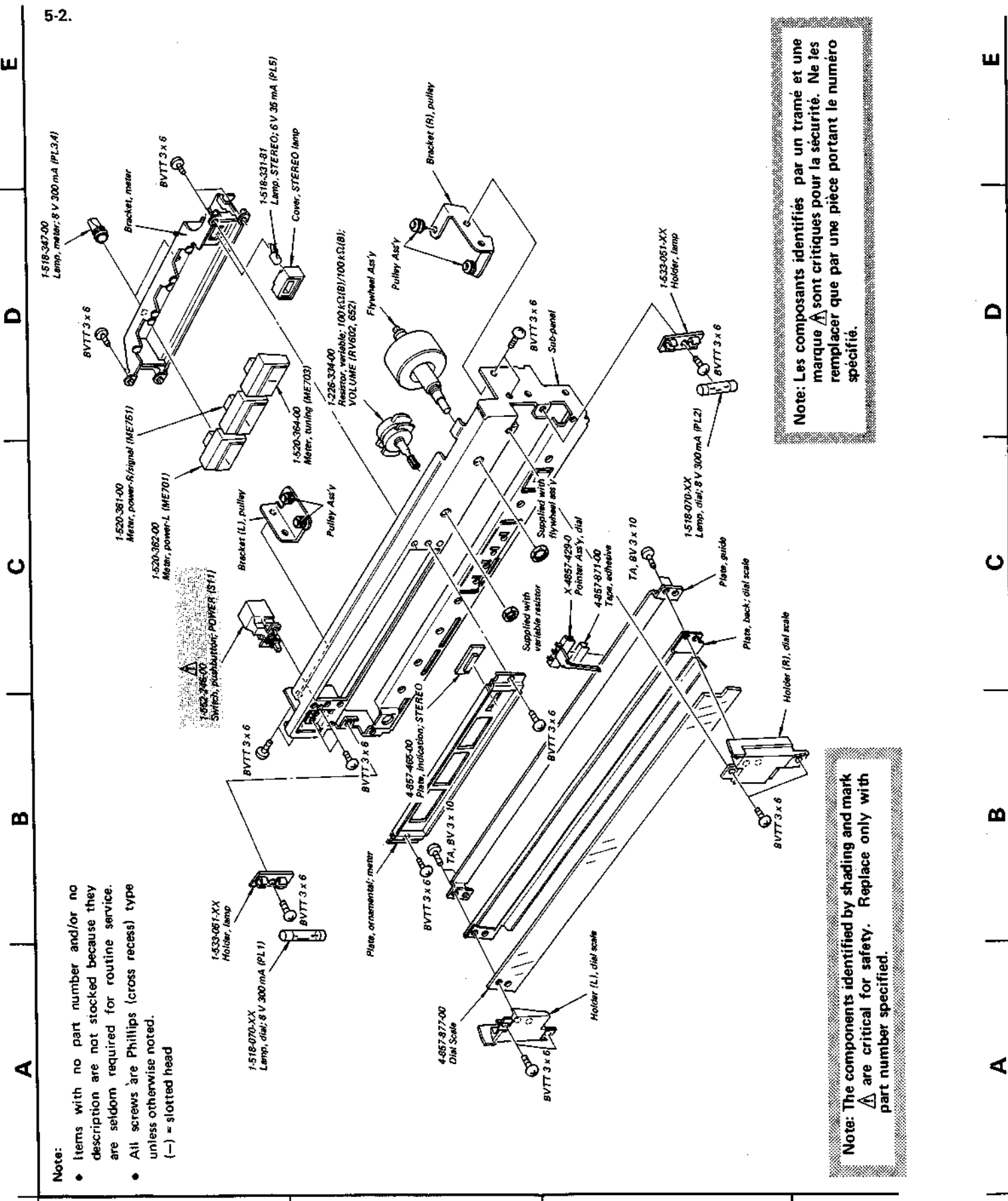


Note:

- 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

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

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



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

Note:

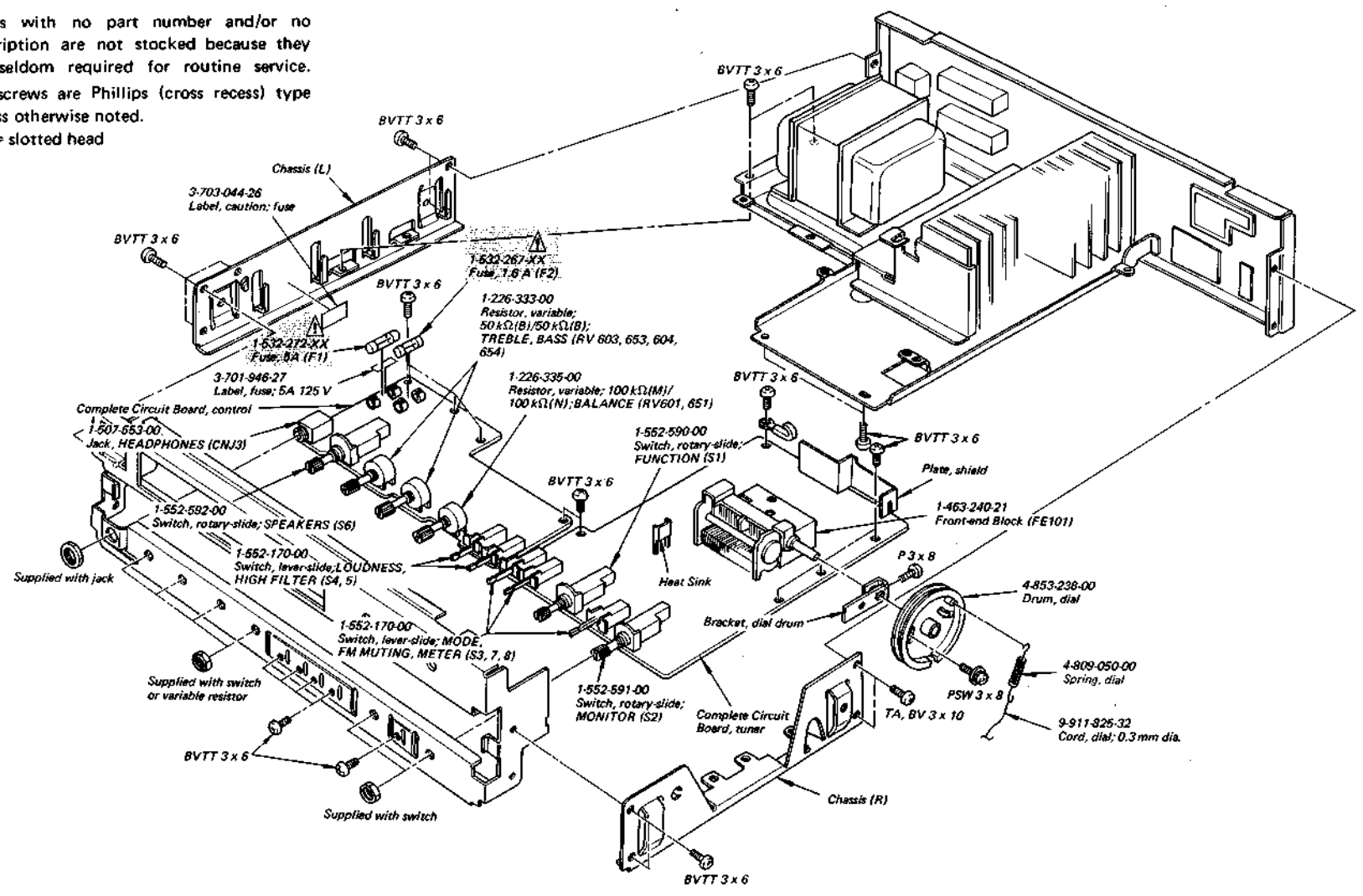
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head

1

2

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- 24 -



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

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

A

B

C

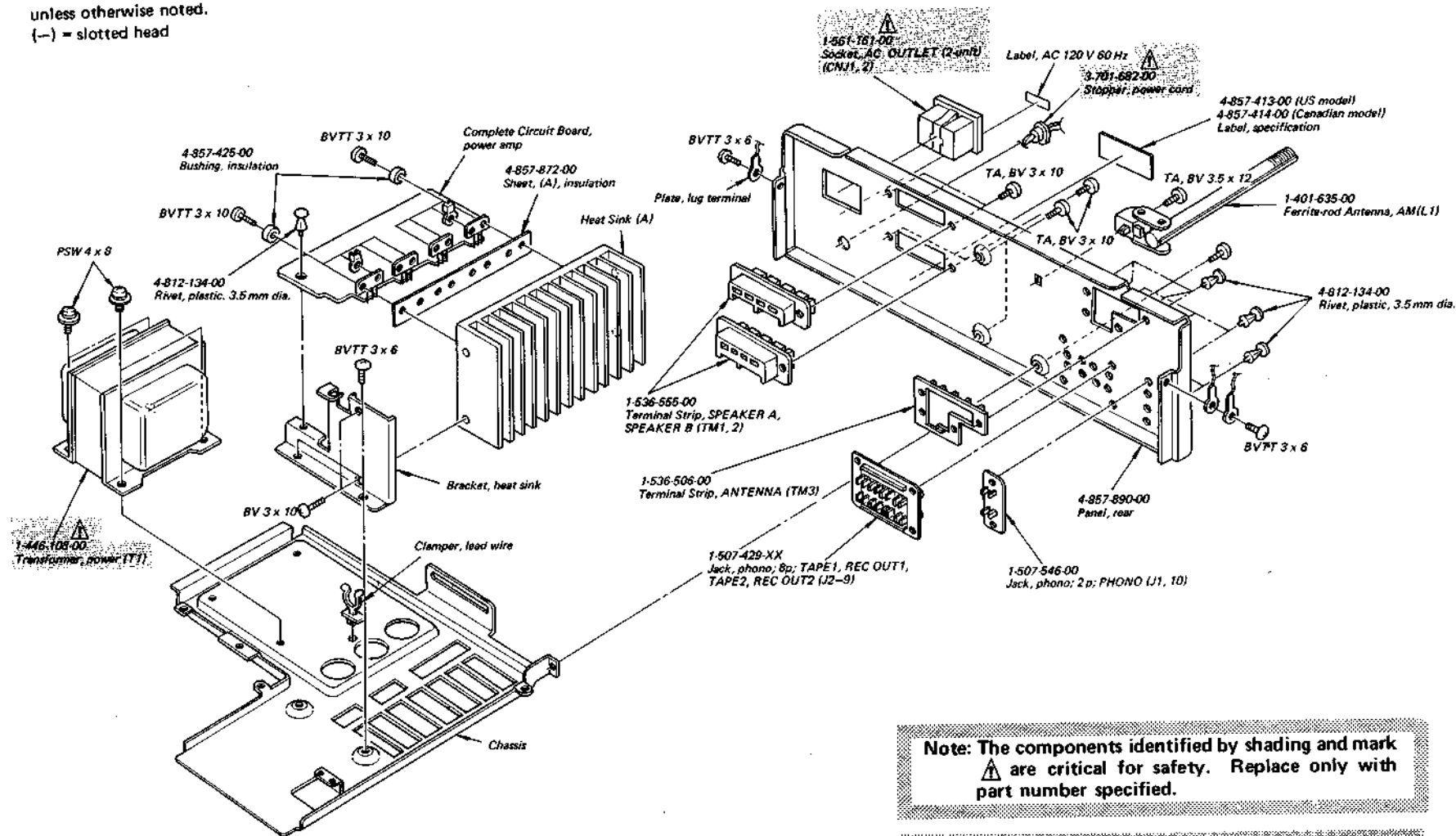
D


E


54.

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



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

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

STR-V4

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4

SECTION 6

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
SEMICONDUCTORS		
Transistors		
Q201	8-729-671-13	2SC710
Q202	8-729-663-47	2SC1364
Q401	8-729-663-47	2SC1364
Q501, 551	8-729-387-27	2SA872
⇒ Q502, 552	8-727-788-00	2SA678
⇒ Q503, 553	8-729-663-47	2SC1364
⇒ Q601, 651	8-727-788-00	2SA678
⇒ Q602, 652	8-729-663-47	2SC1364
⇒ Q603, 653		
Q701, 751	8-765-020-00	2SA884
⇒ Q702, 752	8-727-788-00	2SA678
⇒ Q703, 753	8-765-082-20	2SA896
⇒ Q704, 754	8-765-012-20	2SC1811
⇒ Q705, 755	8-727-788-00	2SA678
Q706, 756	8-729-663-47	2SC1364
Q707, 757		
⇒ Q708, 758	8-727-788-00	2SA678
Q709, 759	8-729-663-47	2SC1364
⇒ Q710, 760	8-727-788-00	2SA678
⇒ Q711, 761	8-729-366-71	2SD667
⇒ Q712, 762	8-729-364-71	2SB647
Q713, 763	8-729-303-52	2SD735
Q714, 764	8-729-309-92	2SB699
Q715	8-729-366-71	2SD667
Q 765	8-729-364-71	2SB647
⇒ Q801, 851	8-729-663-47	2SC1364
⇒ Q803		
Q901	8-729-366-71	2SD667
Q902	8-729-364-71	2SB647
⇒ Q903	8-729-663-47	2SC1364
⇒ Q904	8-727-788-00	2SA678
Q905	8-729-382-62	2SC1826
ICs		
⇒ IC201	8-759-310-37	HA1137W
IC301	8-759-311-96	HA1196
IC401	8-759-812-40	LA1240

⇒: 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>
Diodes		
D201, 202 D301, 401	8-719-815-55	1S1555
D601, 651		
D701, 751	8-719-912-00	MV12N
⇒ D702, 752	8-719-300-11	SV04S
⇒ D703, 753 ⇒ D705, 755	8-719-200-02	10E2
D706, 756 D709, 759		
⇒ D730, 780 ⇒ D731, 781	8-719-422-21	1T22AM
⇒ D801		
⇒ D901	△ 8-719-505-20	SSVB20
D902	△ 8-719-510-10	SIRB10
⇒ D903	8-719-931-16	EQB01-16

COILS

L1	1-401-635-00	Ferrite-rod Antenna, AM
L2	1-417-014-00	Balun
L201	1-407-741-00	18 μH, microinductor
L401	1-407-169-XX	100 μH, microinductor

TRANSFORMERS

CFT401	1-404-086-00	AM IFT
IFT201	1-404-011-00	FM Discriminator
IFT401	1-404-085-00	AM IFT
T1	△ 1-446-108-00	Power
T401	1-405-779-00	AM OSC

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted. 50 WV or less are not indicated except for electrolytics.

p: μμF, elect: electrolytic

C201-203	1-101-005-00	0.022		
C204	1-101-006-00	0.047		
C205	1-121-395-00	4.7	25 V	elect
C206	1-102-112-00	330 p		
C207	1-121-726-00	0.47	50 V	elect

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

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C208	1-121-392-00	3.3	25 V	elect	
C209, 210	1-101-006-00	0.047			
C211, 212	1-101-005-00	0.022			
C213	1-121-450-00	2.2	50 V	elect	
C214	1-121-409-00	47	16 V	elect	
C215, 216	1-101-005-00	0.022			
C301	1-102-107-00	120 p			
C302	1-121-409-00	47	16 V	elect	
C303	1-104-065-00	330 p		styrol	
C304	1-108-246-00	0.047		mylar	
C305, 306	1-121-651-00	10	16 V	elect	
C307	1-121-392-00	3.3	25 V	elect	
C308	1-121-391-00	1	50 V	elect	
C309	1-131-451-00	0.1	16 V	tantalum	
C310, 311	1-121-391-00	1	50 V	elect	
C312, 313	1-108-356-00	0.0082		mylar	
C401	1-108-242-00	0.022		mylar	
C402	1-101-005-00	0.022			
C403	1-102-949-00	12 p			
C404	1-104-065-00	330 p		styrol	
C405-407	1-101-005-00	0.022			
C408	1-121-479-00	22	16 V	elect	
C409	1-108-227-00	0.001		mylar	
C410	1-121-479-00	22	16 V	elect	
C411	1-108-246-00	0.047		mylar	
C412	1-121-395-00	4.7	25 V	elect	
C413	1-108-227-00	0.001		mylar	
C414	1-101-005-00	0.022			
C415	1-121-392-00	3.3	25 V	elect	
C416	1-121-409-00	47	16 V	elect	
C417, 418	1-108-244-00	0.033		mylar	
C419	1-108-242-00	0.022		mylar	
C420	1-121-392-00	3.3	25 V	elect	
C421	1-121-414-00	100	6.3 V	elect	
C501, 551	1-121-915-00	4.7	25 V	elect	
C502, 552	1-101-884-00	56 p			
C503, 553	1-121-651-00	10	16 V	elect	
C504, 554	1-108-355-00	0.0056		mylar	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C505, 555	1-108-352-00	0.0018		mylar	
C506, 556	1-121-420-00	220	10 V	elect	
C507, 557	1-121-392-00	3.3	25 V	elect	
C601, 651	1-108-246-00	0.047		mylar	
C602, 652	1-102-824-00	470 p			
C603, 653	1-121-651-00	10	16 V	elect	
C604, 654	1-121-479-00	22	16 V	elect	
C605, 655	1-121-392-00	3.3	25 V	elect	
C606, 656, C607, 657	1-108-246-00	0.047		mylar	
C608, 658	1-108-228-00	0.0015		mylar	
C609, 659	1-121-392-00	3.3	25 V	elect	
C610, 660	1-101-361-00	150 p			
C611, 661	1-121-450-00	2.2	50 V	elect	
C612, 662	1-121-414-00	100	10 V	elect	
C613, 663	1-108-577-00	0.0082		mylar	
C702, 752	1-121-450-00	2.2	50 V	elect	
C703, 753	1-108-246-00	0.047		mylar	
C704, 754	1-121-479-00	22	16 V	elect	
C705, 755, C706, 756	1-102-942-00	5 p			
C707, 757, C708, 758	1-121-479-00	22	16 V	elect	
C709, 759	1-108-244-00	0.033		mylar	
C710	1-121-420-00	220	10 V	elect	
C730, 780	1-121-395-00	4.7	25 V	elect	
C731	1-121-414-00	100	10 V	elect	
C 781	1-121-413-00	100	6.3 V	elect	
C801	1-121-738-00	10	50 V	elect	
C802	1-121-414-00	100	10 V	elect	
C803	1-121-396-00	4.7	50 V	elect	
C901-904	1-108-389-00	0.1	100 V	mylar	
C905, 906	1-123-257-00	10000	50 V	elect	
C907, 908	1-121-422-00	220	25 V	elect	
C909, 910	1-108-355-00	0.0056		mylar	
C911, 912	1-121-392-00	3.3	25 V	elect	
C913, 914	1-121-935-00	100	25 V	elect	
C915, 916	1-102-355-00	0.01	500 V x 2		

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.

Ref. No.	Part No.	Description
C917	Δ 1-121-940-00	470 25 V elect
C918	1-121-410-00	47 25 V elect
C919	1-121-415-00	100 16 V elect

RESISTORS

All resistors are in ohms. Common 1/4 W 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 : 1000 k Ω

R314	1-244-859-00	270 1/2 W carbon
R401	1-244-891-00	5.6 k 1/2 W carbon
R703, 753 R704, 754	Δ 1-211-551-00	2 k 1/4 W carbon (nonflammable)
R707, 757	1-244-906-00	24 k 1/2 W carbon
R709, 759 R710, 760	Δ 1-211-526-00	150 1/4 W carbon (nonflammable)
R712, 762 R715, 765	Δ 1-211-514-00	47 1/4 W carbon (nonflammable)
R716, 766 R717, 767	Δ 1-211-538-00	470 1/4 W carbon (nonflammable)
R725, 775 R726, 776	Δ 1-217-158-00	0.47 5 W metal oxide
R727, 777	1-244-825-00	10 1/2 W carbon
R728, 778	1-244-817-00	4.7 1/2 W carbon
R729, 779	Δ 1-206-656-00	470 2 W metal oxide
R730, 780	1-244-865-00	470 1/2 W carbon
R731, 781	1-244-877-00	1.5 k 1/2 W carbon
R732, 782	1-244-873-00	1 k 1/2 W carbon
R903, 904	Δ 1-211-522-00	100 1/4 W carbon (nonflammable)
R910	Δ 1-206-502-00	4.3 3 W metal oxide
R911	Δ 1-211-590-00	10 1/2 W carbon (nonflammable)
R1001	1-202-719-00	1 M 1/2 W composition
RT201	1-224-646-XX	22 k, adjustable; signal meter calibration
RT301	1-224-645-XX	10 k, adjustable; VCO

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

Ref. No.	Part No.	Description
RT302	1-224-647-XX	47 k, adjustable; FM stereo separation
RV601, 651	1-226-335-00	100 k (M)/100 k (N), variable; BALANCE
RV602, 652	1-226-334-00	100 k/100 k, variable; VOLUME
RV603, 653 RV604, 654	1-226-333-00	50 k/50 k, variable; TREBLE, BASS
RV701, 751	1-224-253-XX	22 k, adjustable; dc bias
RV730, 780	1-224-250-XX	2.2 k, adjustable; power meter calibration

SWITCHES

S1	1-552-590-00	Rotary-slide, FUNCTION
S2	1-552-591-00	Rotary-slide, MONITOR
S3-5	1-552-170-00	Lever-slide, MODE, LOUDNESS, HIGH FILTER
S6	1-552-592-00	Rotary-slide, SPEAKERS
S7, 8	1-552-170-00	Lever-slide, FM MUTING, METER
S11	Δ 1-552-246-00	Pushbutton, POWER

JACKS

CNJ3	1-507-553-00	HEADPHONES
J1, 10	1-507-546-00	Phono, 2 p; PHONO
J2-9	1-507-429-XX	Phono, 8 p: TAPE1, REC OUT1, TAPE2, REC OUT 2

MISCELLANEOUS

CF201, 202	1-527-307-XX	Filter, ceramic
CNJ1, 2	Δ 1-561-161-00	Socket, AC-OUTLET (2-unit)
CNP1	Δ 1-534-986-XX	Cord, power
CPI	Δ 1-231-326-11	Encapsulated Component (US model)
	Δ 1-231-341-11	Encapsulated Component (Canadian model)
F1	Δ 1-532-272-XX	Fuse, 5A
F2	Δ 1-532-267-XX	Fuse, 1.5A
FE101	1-463-240-21	Front-end Block
LPF301, 302	1-231-224-00	Filter, low-pass
ME701	1-520-362-00	Meter, power (L)
ME703	1-520-364-00	Meter, tuning
ME751	1-520-361-00	Meter, power (R)/signal

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
PL1, 2	1-518-070-XX	Lamp, dial; 8 V 300 mA
PL3, 4	1-518-347-00	Lamp, meter; 8 V 300 mA
PL5	1-518-331-81	Lamp, STEREO; 6 V 35 mA
TM1, 2	1-536-555-00	Terminal Strip, SPEAKER A, SPEAKER B
TM3	1-536-506-00	Terminal Strip, ANTENNA
	1-533-051-XX	Holder, lamp

ACCESSORIES & PACKING MATERIALS

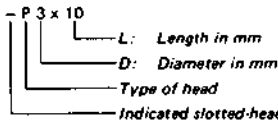
<u>Part No.</u>	<u>Description</u>
1-501-161-00	Antenna, feeder
3-701-020-00	Bag, check sheet
3-770-591-21	Manual, instruction (US model)
3-770-591-21	Manual, instruction (Canadian model)
3-794-292-31	
3-794-233-21	Sheet, consumer products (US model)
4-857-899-00	Carton
4-859-501-00	Cushion
4-859-507-00	Bag, protection

1/4 WATT CARBON RESISTORS

Ω	Part No.	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	1.0M	1-246-545-00
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	1.1M	1-210-814-00
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	1.2M	1-210-815-00
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	1.3M	1-210-816-00
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	1.5M	1-210-817-00
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	1.6M	1-210-818-00
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	1.8M	1-210-819-00
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	2.0M	1-210-820-00
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	2.2M	1-210-821-00
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	2.4M	1-244-754-00
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	2.7M	1-244-755-00
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	3.0M	1-244-756-00
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	3.3M	1-244-757-00
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	3.6M	1-244-758-00
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	3.9M	1-244-759-00
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	1-244-760-00
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	4.7M	1-244-761-00
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	5.1M	1-244-762-00
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		

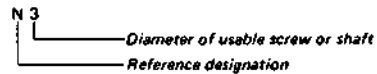
HARDWARE NOMENCLATURE

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		brazer-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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