M STEREO/FM-AM RECEIVER

STR-7035

AEP Model
UK Model

No. 1
September, 1977

SUPPLEMENT

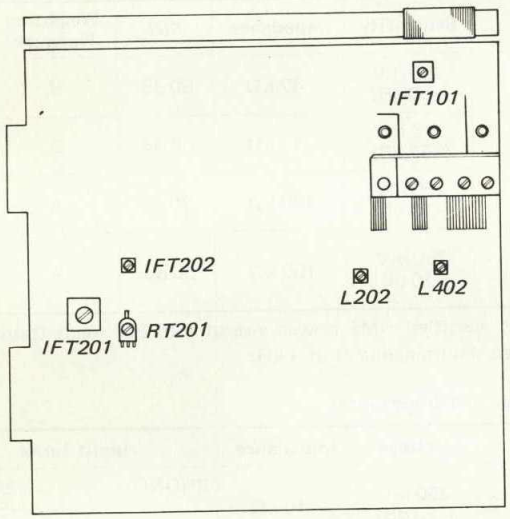
File this supplement with the service manual.

Subject: FM (AM) Front-end/IF Amp/MPX Circuit Board Change

IDENTIFICATION OF SET

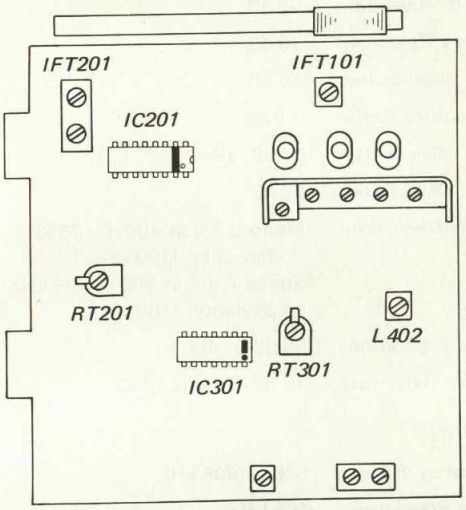
– FM (AM) Front-end/IF Amp/MPX Circuit Board –

Former model



Using transistors in the discriminator and MPX decoder circuit.

New model



Using ICs in the discriminator and MPX decoder circuit.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS 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-7035

Supplement No. 1

SPECIFICATIONS

GENERAL

Power Requirements: 110, 127, 220, 240 V ac, 50/60 Hz

Power Consumption: 140W (UK model)
230W (AEP model)

Dimensions: 427 (w) x 149 (h) x 345 (d) mm
16 7/8 (w) x 5 7/8 (h) x 13 5/8 (d) inches
including projecting parts and controls

Weight: Approx. 8.6 kg, 18 lb 15 oz (net)
Approx. 11.1 kg, 24 lb 8 oz
(with shipping carton)

FM SECTION

Frequency Range: 87.5–108 MHz

Intermediate Frequency: 10.7 MHz

Antenna Terminals: 300 Ω balanced
75 Ω unbalanced

Sensitivity: 2.2 μV (6.5 dB), IHF
1.7 μV (4.5 dB), S/N = 26 dB
(1 kHz, 40 kHz deviation)

Image Rejection: 55 dB

IF Rejection: 90 dB

Spurious Rejection: 78 dB

AM Suppression: 55 dB

Capture Ratio: 1.5 dB

Selectivity: 60 dB, IHF

S/N Ratio: 68 dB

Harmonic Distortion: Mono 0.3% at 400 Hz, 75 kHz deviation (100%)
Stereo 0.8% at 400 Hz, 75 kHz deviation (100%)

Stereo Separation: 35 dB at 400 Hz

Frequency Response: 30 Hz–15 kHz $^{+0}_{-2}$ dB

AM SECTION

Frequency Range: 530–1,605 kHz

Intermediate Frequency: 468 kHz

Antenna: Built-in ferrite-rod antenna and external antenna terminal

Sensitivity: 250 μV/m (48 dB/m), built-in antenna
30 μV (29 dB), external antenna

Image Rejection: 56 dB at 1,000 kHz

IF Rejection: 40 dB at 1,000 kHz

S/N Ratio: 50 dB

Harmonic Distortion: 0.8%

AMPLIFIER SECTION

Continuous RMS Power Output: (Less than 0.8% THD, both channel driven simultaneously)
At 40 Hz–20 kHz
24 + 24 W (8 Ω)
At 1 kHz
26 + 26 W (8 Ω)
28 + 28 W (4 Ω) (AEP model)
According to DIN 45500
24 + 24 W (8 Ω)
25 + 25 W (4 Ω) (AEP model)

Dynamic Power Output: (IHF constant power supply method)
65W (8 Ω)
80W (4 Ω) (AEP model)

Power Bandwidth (IHF): 10 Hz–25 kHz

Harmonic Distortion: Less than 0.8% at rated output
Less than 0.1% at 1W output

IM Distortion: (60 Hz: 7 kHz = 4:1)
Less than 0.8% at rated output
Less than 0.1% at 1W output

Residual Noise: Less than 0.08 μW

Damping Factor: 25 at 1 kHz, 8 Ω

Input Sensitivity, Impedance and S/N Ratio:

Input	Sensitivity	Impedance	S/N	Weighting Network
PHONO	2.5 mV (-50 dB)	47 kΩ	60 dB	B
MIC	2 mV (-52 dB)	47 kΩ	60 dB	B
AUX	250 mV (-10 dB)	100 kΩ	70 dB	A
TAPE 1, 2 REC/PB (input)	250 mV (-10 dB)	100 kΩ	80 dB	A

Measured with specified RMS power output into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

Output Voltage and Impedance:

Output	Voltage	Impedance	Input Level	
REC OUT 1, 2	250 mV (-10 dB)	10 kΩ	PHONO	2.5 mV (-50 dB)
			MIC	2 mV (-52 dB)
REC/PB (output)	30 mV (-28 dB)	82 kΩ	AUX, TAPE 1, 2 REC/PB (output)	250 mV (-10 dB)

Headphones: Accepts 8 Ω–10 kΩ headphones

Speaker: 8 Ω or more speakers are suitable (UK model)
4–16 Ω speakers are suitable (AEP model)

Frequency Response: PHONO: RIAA equalization curve ± 2 dB
MIC: 30 Hz–10 kHz $^{+0}_{-3}$ dB
AUX, TAPE 1, 2 REC/PB (input) : 30 Hz–40 kHz $^{+0}_{-3}$ dB

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

High Filter: 6 dB/oct. above 5 kHz

Loudness: +6 dB at 50 Hz, +4 dB at 10 kHz
(Volume control attenuation 30 dB)

MODEL IDENTIFICATION

— Specification Label —

AEP model

SONY

FM STEREO/FM-AM RECEIVER
MODEL NO. STR-7035
FREQ. RANGE : FM 87.5-108MHz AM 530-1605kHz
IF : FM 10.7MHz AM 468kHz
AC 110, 127, 220, 240V ~ 50/60Hz 230W
SERIAL NO.
MADE IN JAPAN

UK model

SONY

FM STEREO/FM-AM RECEIVER
MODEL NO. STR-7035
FREQ. RANGE : FM 87.5-108MHz AM 530-1605kHz
IF : FM 10.7MHz AM 468kHz
AC 110,127,220,240V~ 50/60Hz 140W
SERIAL NO.
MADE IN JAPAN

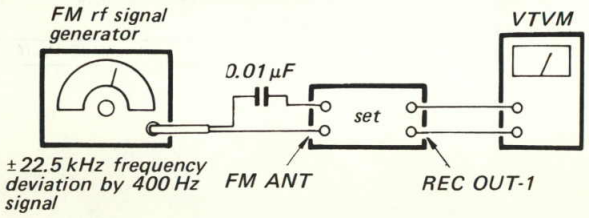
SECTION 1
ADJUSTMENTS

1-1. FM SECTION

Setting:

FUNCTION switch: FM
MONO switch: MONO
MUTING switch: OFF

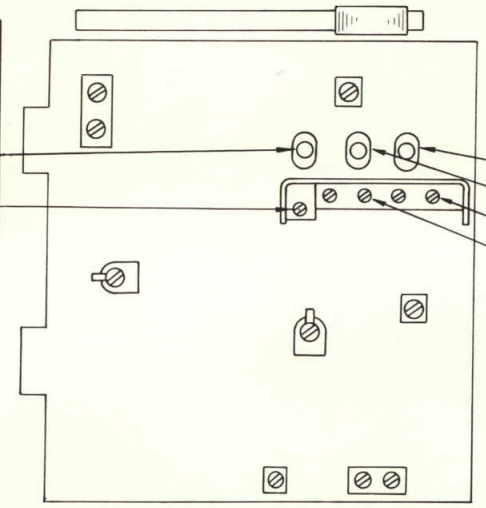
1. FM Frequency Coverage and Tracking Adjustment



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

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.2 MHz (87.5 MHz)	L103
108.4 MHz (108.0 MHz)	CT103

( ): in West Germany



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L101	87.2 MHz (87.5 MHz)
L102	
CT101	108.4 MHz (108.0 MHz)
CT102	

( ): in West Germany

FM (AM) Front-end/IF Amp/MPX Board
– Component Side –

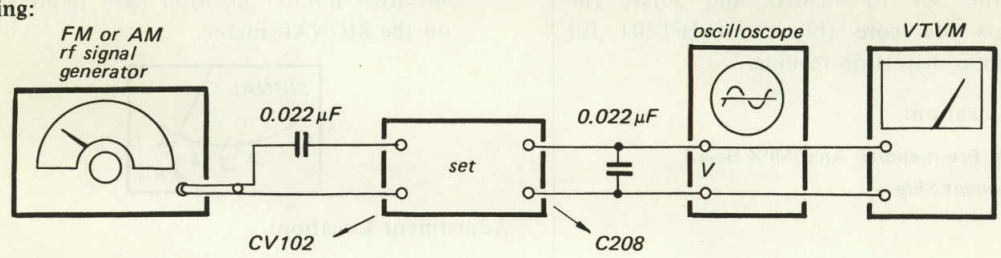
2. FM IF Alignment (1)

The ceramic filters used in the fm-i-f circuit are color-coded according to their specified center frequencies.

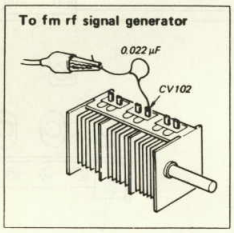
FM IF CERAMIC FILTERS

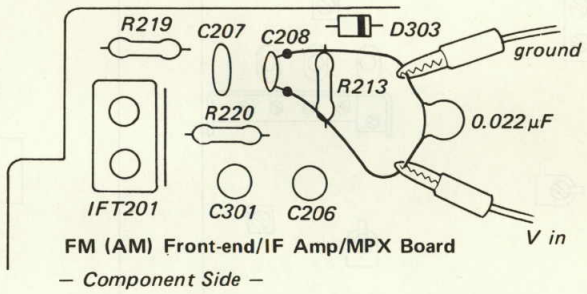
Part No.	Specified Center Freq.	Color
1-527-220-11	10.70 MHz	red
1-527-220-21	10.67 MHz	blue
1-527-220-31	10.73 MHz	orange
1-527-220-41	10.64 MHz	black
1-527-220-51	10.76 MHz	white

Setting:



Carrier frequency: center freq. of ceramic filter
FM 400 Hz 100%

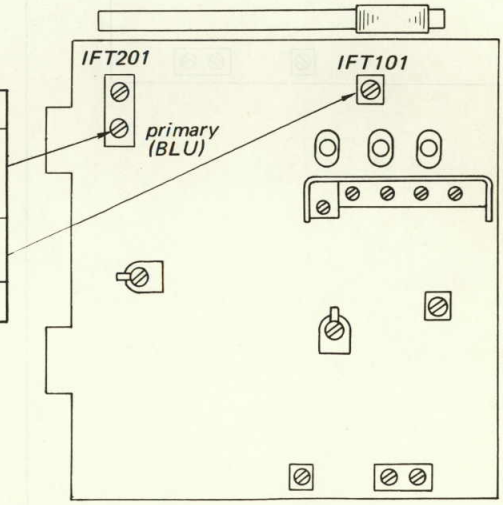




FM (AM) Front-end/IF Amp/MPX Board
– Component Side –

Procedure:

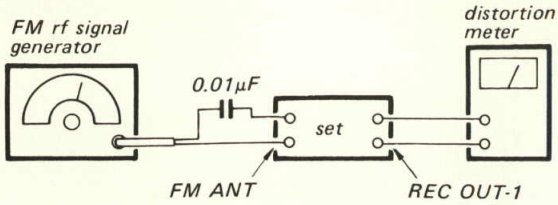
Step	Modulation	Procedure
1	AM 400 Hz 30%	Adjust to minimize the waveform amplitude on the screen.
2	FM 400 Hz 75 kHz deviation	Adjust for a maximum reading on VTVM.
3	Repeat above steps several times.	



FM (AM) Front-end/IF Amp/MPX Board
– Component Side –

3. FM IF Alignment (2)

Procedure:

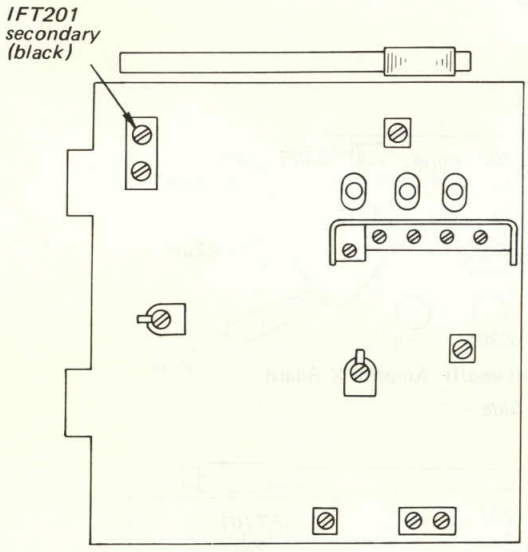


Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 1 mV (60 dB)

Tune the set to 98 MHz and adjust the secondary-side core (black) of IFT201 for a minimum distortion reading.

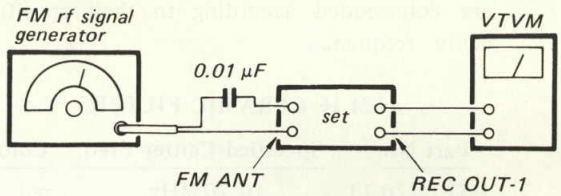
Adjustment Location:

FM (AM) Front-end/IF Amp/MPX Board
– Component Side –



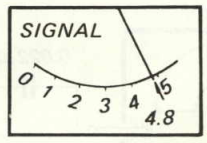
4. Signal Meter Adjustment

Procedure:



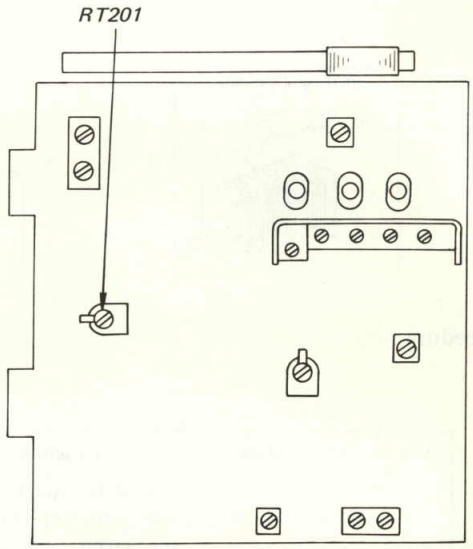
Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 3.2 mV (70 dB)

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



Adjustment Location:

FM (AM) Front-end/IF Amp/MPX Board
– Component Side –

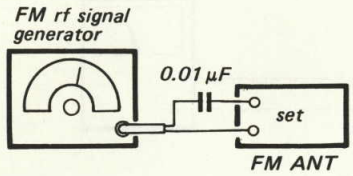


5. MPX Adjustment

Setting:

MONO switch: STEREO

Procedure:



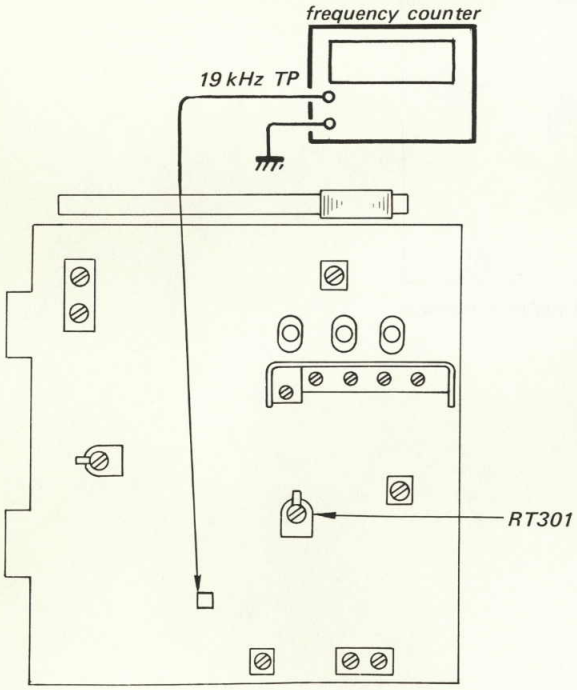
Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 3.2 mV (70 dB)

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

Note: Perform this adjustment after the power switch turned ON and one minute passed.

Adjustment Location:

FM (AM) Front-end/IF Amp/MPX Board
– Component Side –

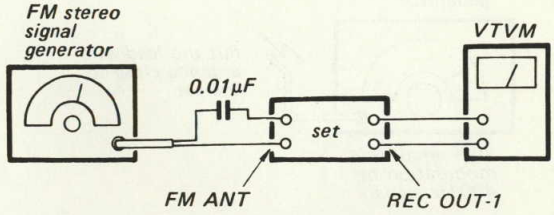


6. FM Stereo Separation Adjustment

Setting:

MONO switch: STEREO

Procedure:



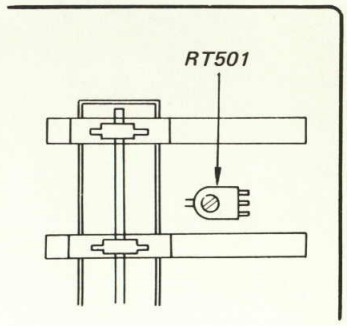
Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo
Modulation:
Audio (400 Hz): 67.5 kHz deviation (90%)
Pilot (19 kHz): 7.5 kHz deviation (10%)

FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	Ⓐ Adjust RT501 for maximum reading.
R-CH	L-CH	Ⓑ
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ

Stereo separation: Ⓐ – Ⓑ, Ⓒ – Ⓓ.
The difference between separations Ⓐ → Ⓑ and Ⓒ → Ⓓ should be equal.

Adjustment Location:

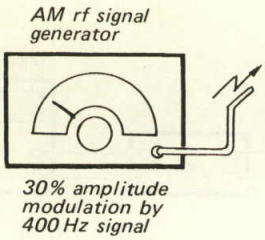
Control Board
– Component Side –

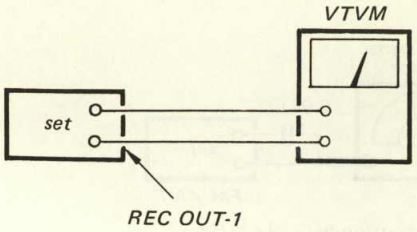


1-2. AM SECTION

Setting:

FUNCTION switch: AM

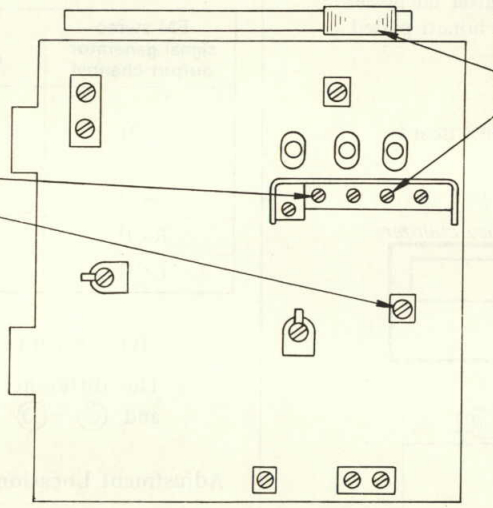




Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
1,680 kHz	CT402
520 kHz	L402

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
L401	600 kHz
CT401	1,400 kHz



FM (AM) Front-end/IF Amp/MPX Board

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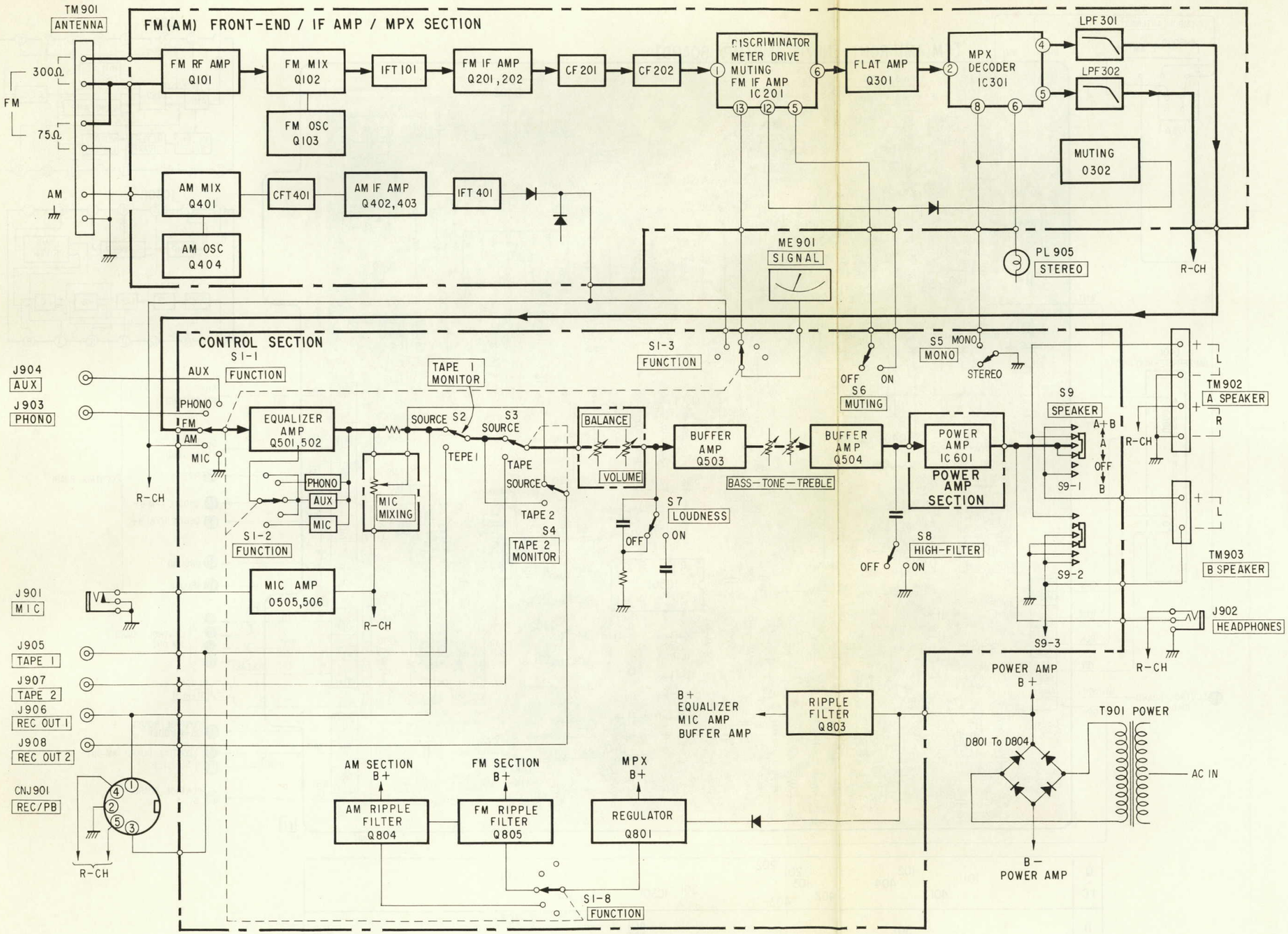
Supplement No. 1

SECTION 2
DIAGRAMS

2-1. BLOCK DIAGRAM



STR-7035 Supplement No. 1

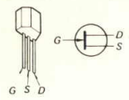
2-2. MOUNTING DIAGRAM — FM (AM) Front-end/IF Amp/MPX Board —

— Conductor Side —

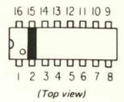
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

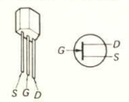
Q101: 2SK42-4 (2SK42)



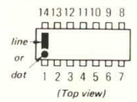
IC201: HA1137W



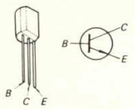
Q102: 2SK23A-840 (blue)



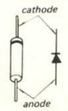
IC301: HA1156W



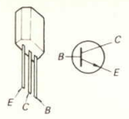
Q103, 402–404: 2SC710



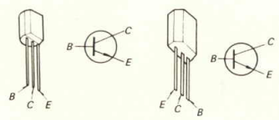
D301–303: 1S1555
D401, 402: 1T22A
D403: 1S1555 (1T40)



Q201, 202: 2SC403C
Q301: 2SC632A (2SC631A)
Q302: 2SC634A (2SC633A)

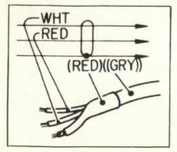


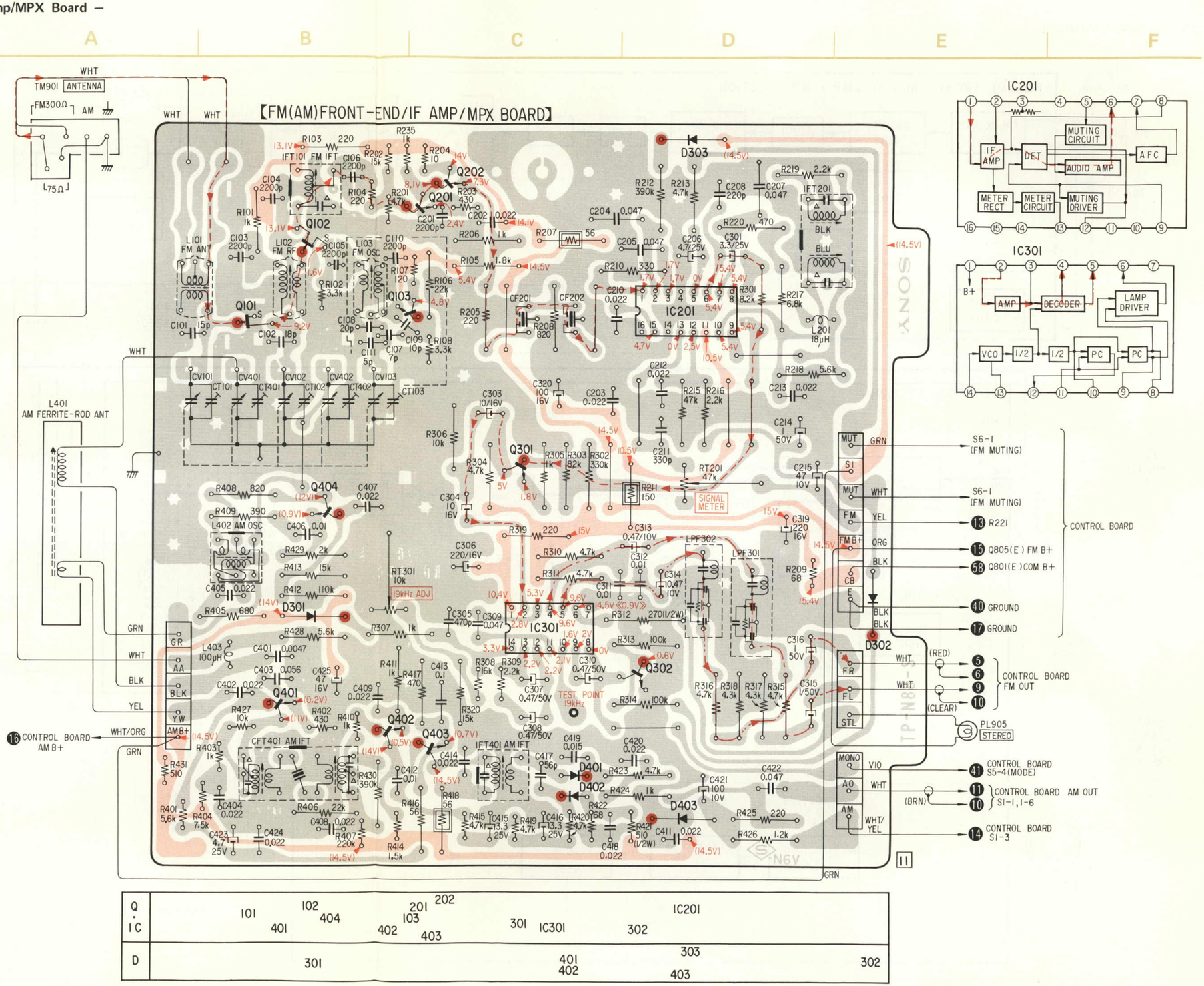
Q401: 2SC710 (2SC633A)



Note:

- ⊣: indicates side identified with part number.
- : B+ pattern.
- Signal path.
  - : RF or FM composite
  - : L-CH
  - : R-CH
- Color code of sleeving over the end of the jacket.





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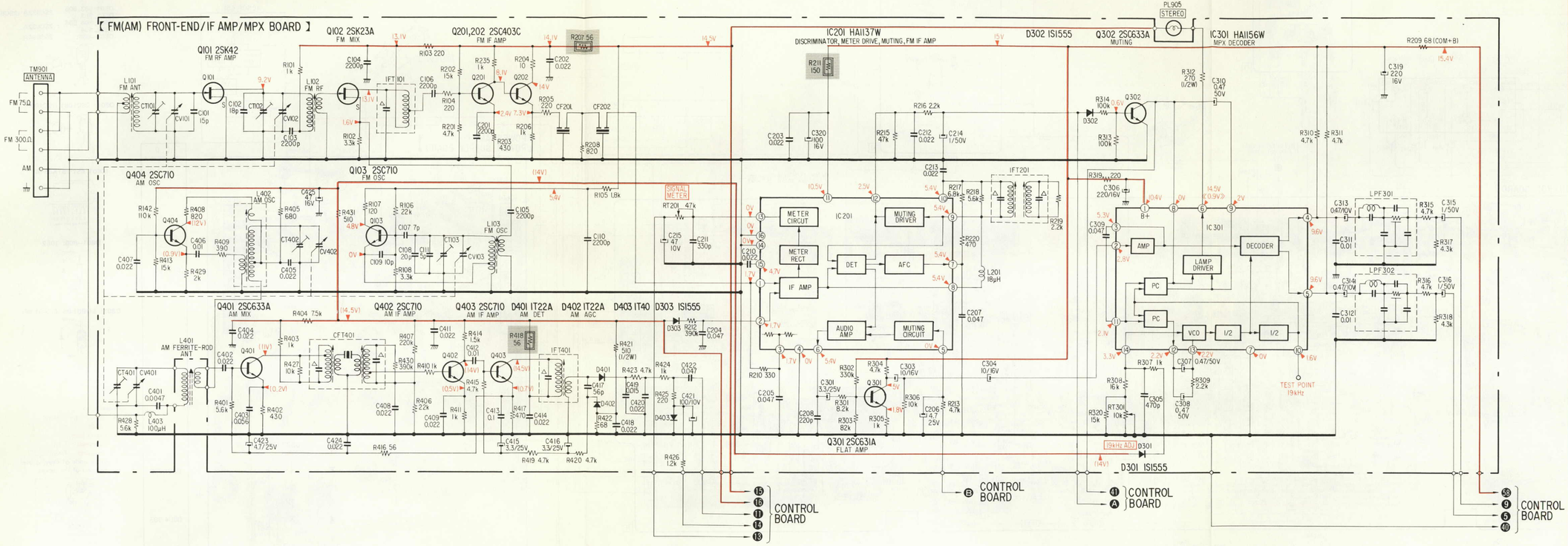
STR-7035 Supplement No. 1

2-3. SCHEMATIC DIAGRAM — FM (A-M) Front-end/I-F Amp/MPX Section —



Note:

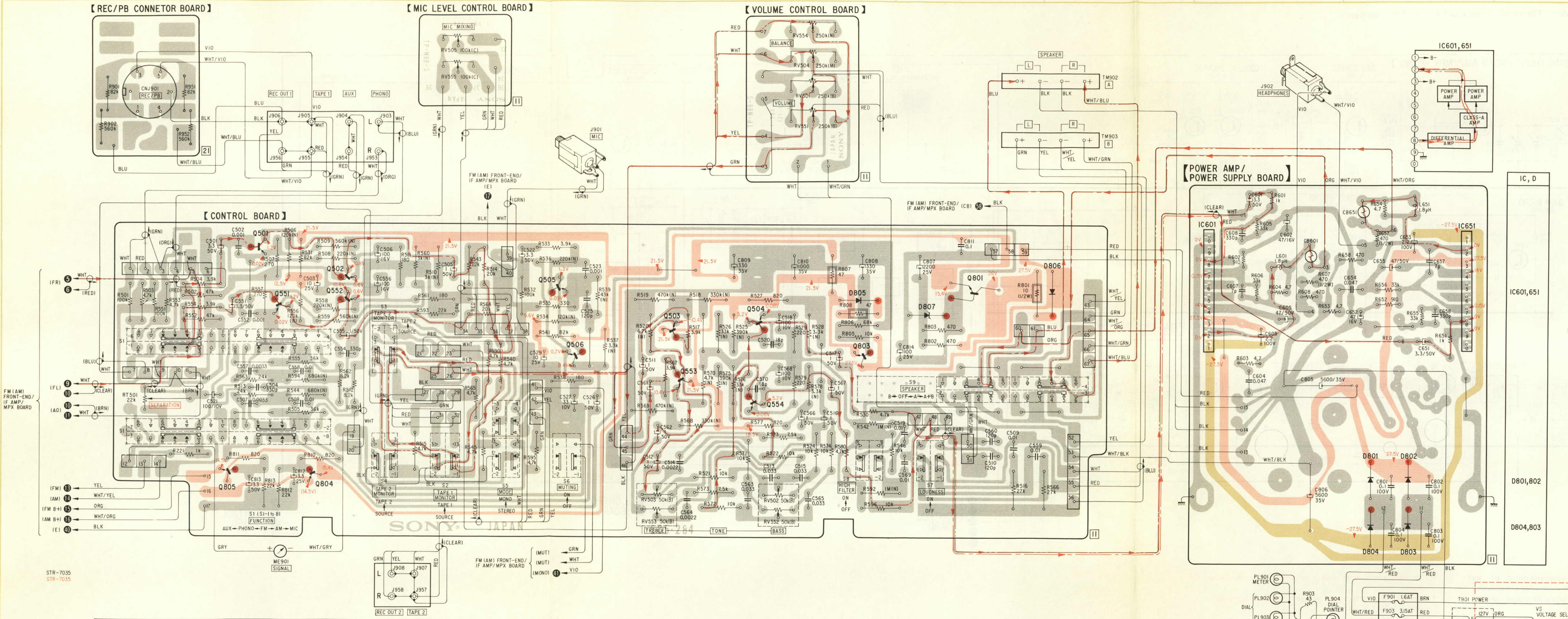
- All capacitors are in μF unless otherwise noted. pF = μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000 kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▬ : B+ bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal (detuned) conditions with a VOM (20 kΩ/V).
  ( ) : AM mode
  《 》: FM stereo mode
  no marking: FM mode
  MUTING switch: OFF
- Voltage variations may be noted due to normal production tolerances.

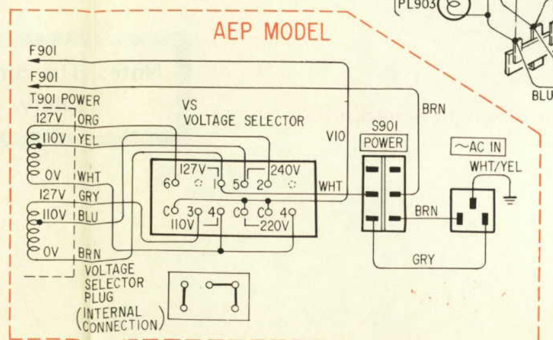
Note: The components identified by shading are critical for safety. Replace only with part number specified.

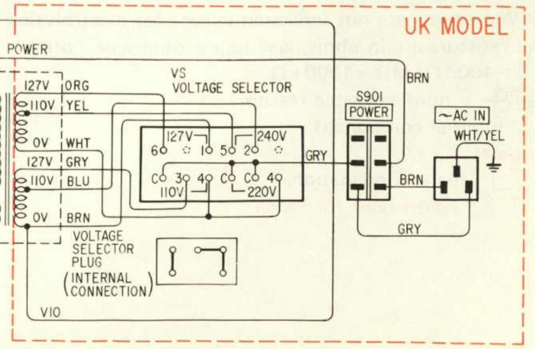
2-4. MOUNTING DIAGRAM – Audio Amp Section –

– Conductor Side –



Q	805	501	551	804	502 552	505	506	503	553	504 554	803	801
D											805 807	806

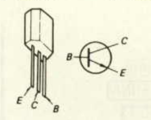




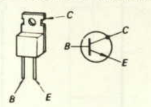
Replacement Semiconductors

For replacement, use semiconductor except in ( ).

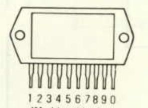
Q501, 503, 505
Q551, 553 : 2SC632A (2SC631A)
Q502, 504, 506
Q552, 554 : 2SC632A
Q803–805: 2SC634A



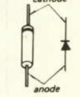
Q801: 2SC1061 (2SC1060)



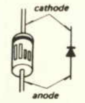
IC601, 651: STK056A



D801–806: 10E2

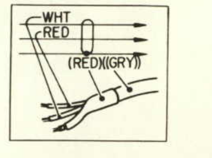


D807: EQB01-06 (EQA01-06)



Note:

- : B+ pattern.
- : B– pattern.
- Signal path.
  : L-CH
  : R-CH
- Color code of sleeving over the end of the jacket.



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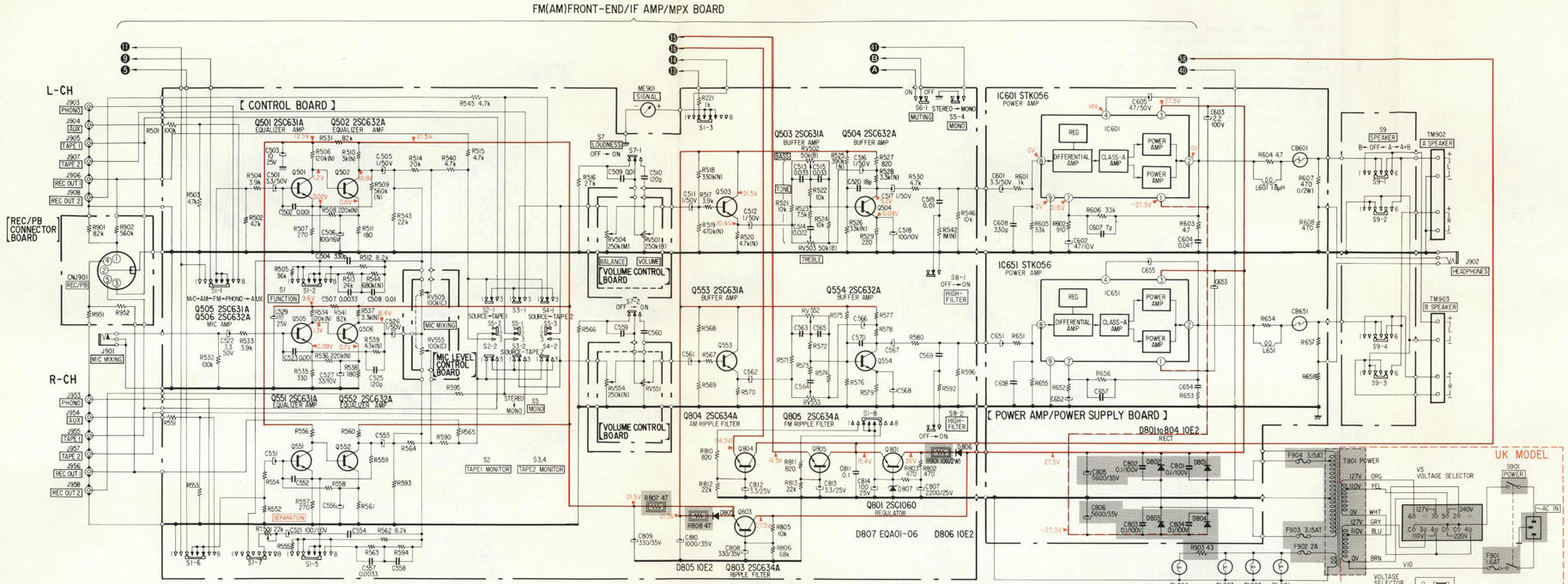
2-5. SCHEMATIC DIAGRAM — Audio Amp Section —



Note:

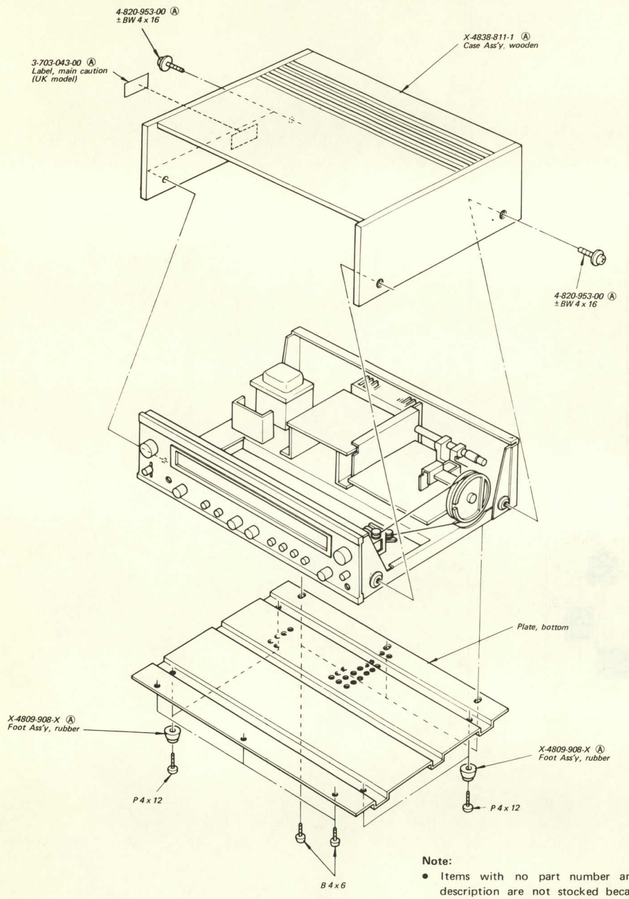
- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF = μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000 kΩ
- ⏦ : nonflammable resistor.
- (N) : low-noise resistor.
- ▬ : B+ bus.
- ▬ : B– bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ⏚ : Direct connection to points marked ⏚ on the chassis.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	FUNCTION	FM
S2	TAPE 1 MONITOR	SOURCE
S3, 4	TAPE 2 MONITOR	SOURCE
S5	MODE	STEREO
S6	FM MUTING	OFF
S7	LOUDNESS	OFF
S8	HIGH FILTER	OFF
S9	SPEAKER	A
S901	POWER	OFF
VS	VOLTAGE SELECTOR	

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

SECTION 3
EXPLODED VIEWS

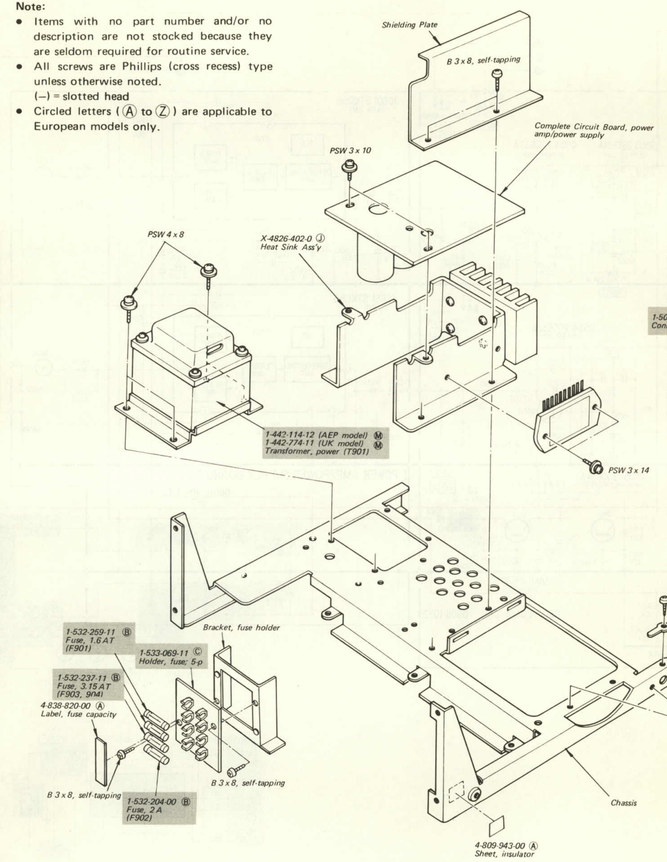
3-1.

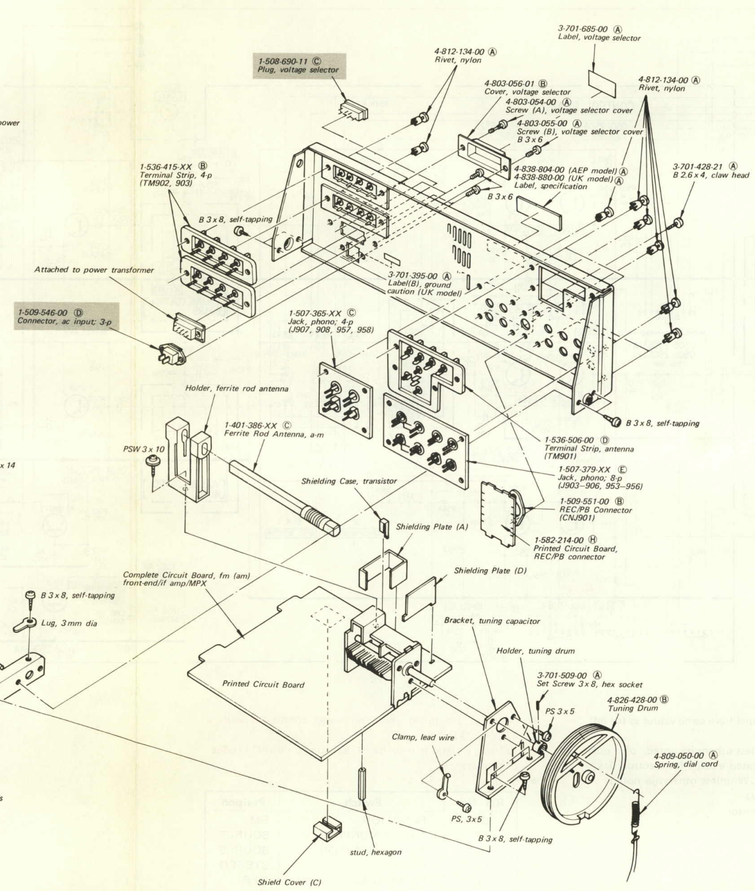


Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

3-2.

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
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.





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

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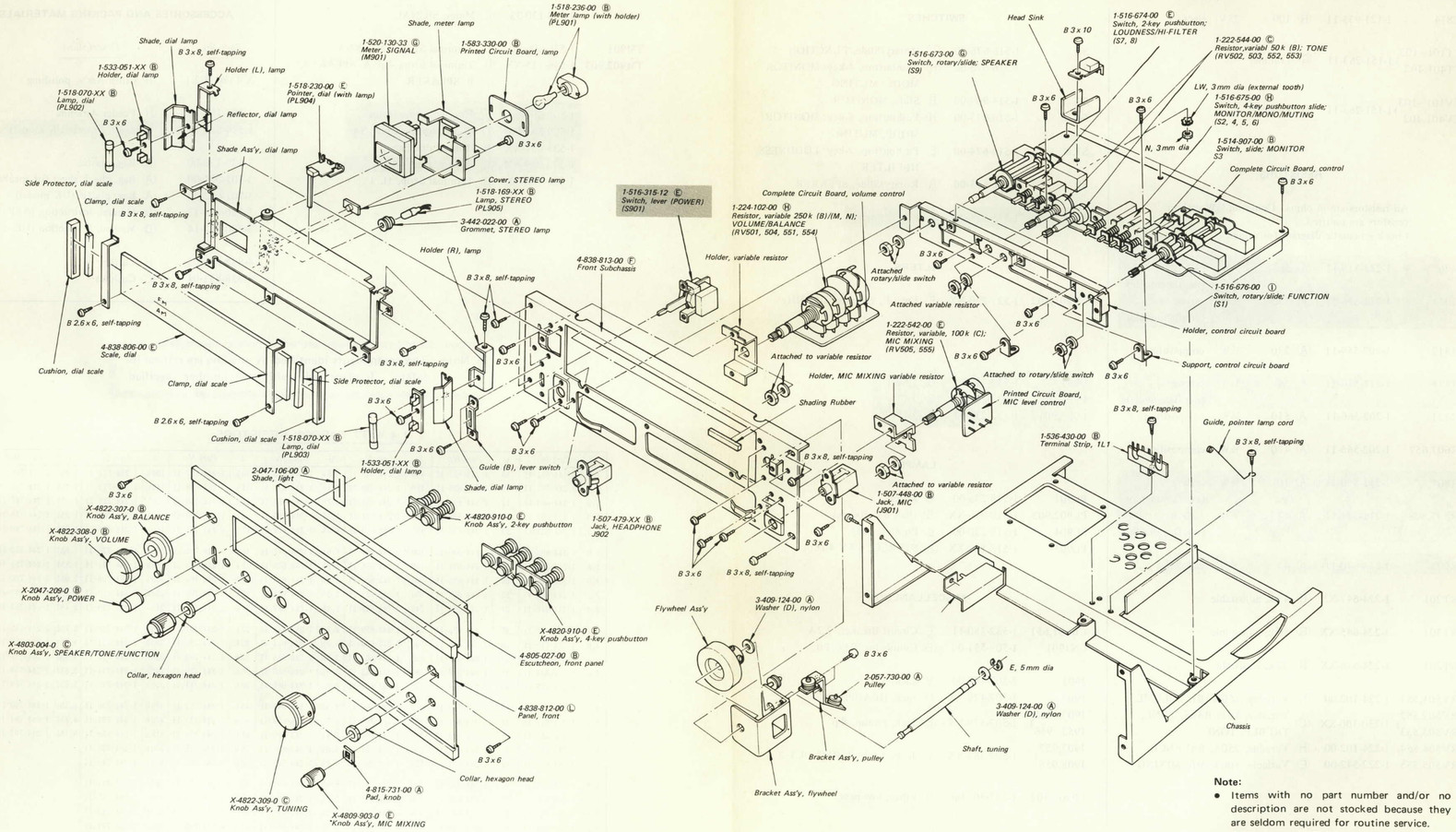
3-3.



Note: The components identified by shading 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
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

SECTION 4 ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description
			PRINTED CIRCUIT BOARDS
	1-582-214-00	Ⓗ	REC/PB Connector
	1-583-330-00	Ⓑ	Lamp
			SEMICONDUCTORS
			Transistors
⇒ Q101		Ⓒ	2SK42-4
Q102		Ⓒ	2SK23A-840 (blue)
Q103		Ⓑ	2SC710
Q201,202		Ⓑ	2SC403C
⇒ Q301		Ⓑ	2SC632A
⇒ Q302		Ⓑ	2SC634A
⇒ Q401		Ⓑ	2SC710
Q402–404		Ⓑ	2SC710
⇒ Q501,551		Ⓑ	2SC632A
Q502,552		Ⓑ	2SC632A
⇒ Q503,553		Ⓑ	2SC632A
Q504,554		Ⓑ	2SC632A
⇒ Q505		Ⓑ	2SC632A
Q506		Ⓑ	2SC632A
⇒ Q801		Ⓓ	2SC1061
			ICs
IC201		Ⓗ	HA1137W
IC301		Ⓙ	HA1156W
IC601,651		Ⓛ	STK-056A
			Diodes
D301–303		Ⓑ	1S1555
D401,402		Ⓑ	1T22A
⇒ D403		Ⓑ	1S1555
D801–804		Ⓑ	10E2
D805,806		Ⓑ	10E2
⇒ D807		Ⓑ	EQB01-16
			TRANSFORMERS, COILS AND INDUCTORS
CFT401	1-403-830-00	Ⓒ	AM IFT, w/ceramic filter, 468 kHz
IFT101	1-403-914-00	Ⓑ	FM IFT, 10.7 MHz
IFT201	1-404-011-00	Ⓒ	Transformer, discriminator
IFT401	1-403-149-00	Ⓑ	AM IFT
L101	1-401-541-00	Ⓑ	Coil, FM Antenna
L102	1-405-599-00	Ⓑ	Coil, FM RF
L103	1-405-598-00	Ⓑ	Coil, FM Osc
L201	1-407-160-XX	Ⓐ	Microinductor, 18 μH
L401	1-401-386-XX	Ⓒ	AM Ferrite-rod Antenna
L402	1-405-444-00	Ⓑ	Coil, AM Osc
L403	1-407-169-XX	Ⓐ	Microinductor, 100 μH
L601,651	1-407-592-00	Ⓑ	Microinductor, 1.8 μH
LPF301,302	1-231-301-00		Filter, low pass
T901	1-442-114-00	Ⓜ	Transformer, power (AEP model)
	1-442-774-11	Ⓜ	Transformer, power (UK model)

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50 WV or less are not indicated except for electrolytics. pF = μμF, elect = electrolytic

C101	1-102-951-11	Ⓐ	15p		
C102	1-102-953-11	Ⓐ	18p		
C103–106	1-102-257-11	Ⓐ	2200p		
C107	1-102-875-11	Ⓐ	7p		
C108	1-102-671-11	Ⓐ	20p		
C109	1-101-978-11	Ⓐ	10p		
C110	1-102-257-11	Ⓐ	2200p		
C111	1-102-872-00	Ⓐ	5p		
C201	1-102-257-11	Ⓐ	2200p		
C202,203	1-101-924-11	Ⓐ	0.022		
C204,205	1-101-925-11	Ⓐ	0.047		
C206	1-121-395-11	Ⓐ	4.7	25V	elect
C207	1-108-845-12	Ⓐ	0.047		mylar
C208	1-102-978-11	Ⓐ	220p		
C210	1-102-924-11	Ⓐ	0.022		

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

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

Supplement No. 1

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description		
C211	1-102-820-11	Ⓐ	330p		
C212,213	1-101-924-11	Ⓐ	0.022		
C214	1-121-391-11	Ⓐ	1	50V	elect
C215	1-121-352-11	Ⓐ	47	10V	elect
C301	1-121-392-11	Ⓐ	3.3	25V	elect
C303,304	1-121-651-11	Ⓐ	10	16V	elect
C305	1-103-717-11	Ⓐ	470p		polystyrol
C306	1-123-421-11	Ⓑ	220	16V	elect
C307,308	1-121-726-11	Ⓐ	0.47	50V	elect
C309	1-108-845-12	Ⓐ	0.047		mylar
C310	1-121-726-11	Ⓐ	0.47	50V	elect
C311,312	1-108-804-12	Ⓐ	0.01		mylar
C313,314	1-127-022-11	Ⓑ	0.47	10V	solid aluminum
C315,316	1-121-391-11	Ⓐ	1	50V	elect
C319	1-121-421-11	Ⓑ	220	16V	elect
C320	1-121-415-11	Ⓑ	100	16V	elect
C401	1-108-841-12	Ⓐ	0.022		mylar
C402	1-101-924-11	Ⓐ	0.022		
C403	1-108-846-12	Ⓐ	0.056		mylar
C404	1-101-924-11	Ⓐ	0.022		
C405	1-108-841-12	Ⓐ	0.022		mylar
C406	1-108-837-12	Ⓐ	0.01		mylar
C407	1-108-841-12	Ⓐ	0.022		mylar
C408,409	1-101-924-11	Ⓐ	0.022		
C411					
C412	1-101-923-11	Ⓐ	0.01		
C413	1-108-849-12	Ⓑ	0.1		mylar
C414	1-101-924-11	Ⓐ	0.022		
C415,416	1-121-392-11	Ⓐ	3.3	25V	elect
C417	1-101-884-11	Ⓐ	56p		
C418	1-101-924-11	Ⓐ	0.022		
C419	1-108-839-12	Ⓐ	0.015		mylar
C420	1-108-841-12	Ⓐ	0.022		mylar
C421	1-121-414-11	Ⓔ	100	10V	elect
C422	1-108-845-12	Ⓐ	0.047		mylar
C423	1-121-395-11	Ⓐ	4.7	25V	elect
C424	1-101-924-11	Ⓐ	0.022		
C425	1-121-409-11	Ⓑ	47	16V	elect
C501,551	1-121-914-11	Ⓐ	3.3	50V	elect
C502,552	1-108-825-12	Ⓐ	0.001		mylar
C503	1-121-748-11	Ⓐ	10	25V	elect
C504,554	1-102-112-11	Ⓐ	330p		
C505,555	1-121-912-11	Ⓐ	1	50V	elect
C506,556	1-121-415-11	Ⓑ	100	16V	elect
C507,557	1-108-831-12	Ⓐ	0.0033		mylar
C508,558	1-108-837-12	Ⓐ	0.01		mylar
C509,559					
C510,560	1-102-816-11	Ⓐ	120p		
C511,561	1-121-912-11	Ⓐ	1	50V	elect
C512,562					
C513,563	1-108-843-12	Ⓐ	0.033		mylar
C514,564	1-108-829-12	Ⓐ	0.0022		mylar
C515,565	1-108-843-12	Ⓐ	0.033		mylar
C516,566	1-121-912-11	Ⓐ	1	50V	elect
C517,567					
C518,568	1-121-414-11	Ⓔ	100	10V	elect
C519,569	1-108-837-12	Ⓐ	0.01		mylar
C520,570	1-102-957-11	Ⓐ	18p		
C521	1-121-414-11	Ⓔ	100	10V	elect
C522	1-121-914-11	Ⓐ	3.3	50V	elect
C523	1-108-825-12	Ⓐ	0.001		mylar
C525	1-102-816-11	Ⓐ	120p		
C526	1-121-912-11	Ⓐ	1	50V	elect
C527	1-121-402-11	Ⓐ	33	10V	elect
C529	1-121-748-11	Ⓐ	10	25V	elect
C601,651	1-121-914-11	Ⓐ	3.3	50V	elect
C602,652	1-121-409-11	Ⓐ	47	16V	elect
C603,653	1-123-025-11	Ⓐ	2.2	100V	elect
C604,654	1-105-681-12	Ⓐ	0.047		mylar
C605,655	1-123-058-11	Ⓑ	47	50V	elect
C607,657	1-102-944-11	Ⓐ	7p		
C608,658	1-102-112-11	Ⓐ	330p		
C801–804	1-105-725-12	Ⓑ	0.1	100V	mylar
C805,806	1-123-135-11	Ⓕ	5600	35V	elect
C807	1-123-067-11	Ⓓ	2200	25V	elect
C808,809	1-123-064-11	Ⓑ	330	35V	elect
C810	1-121-945-11	Ⓒ	1000	35V	elect
C811	1-108-825-12	Ⓐ	0.1		mylar
C812,813	1-121-392-11	Ⓐ	3.3	25V	elect

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

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Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description		
C814	1-121-935-11	Ⓑ	100	25V	elect
CT101–103, CT401,402	1-151-263-11	Ⓖ	Trimmer		
CV101–103, CV401,402	1-151-263-11	Ⓖ	Tuning		

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Check schematic diagram for values.

R207	1-211-516-11	Ⓐ	56	¼W	carbon (nonflammable)
R211	1-211-526-11	Ⓐ	150	¼W	carbon (nonflammable)
R312	1-202-559-11	Ⓐ	270	½W	composition
R418	1-211-516-11	Ⓐ	56	¼W	carbon (nonflammable)
R421	1-202-566-11	Ⓐ	510	½W	composition
R607,657	1-202-565-11	Ⓐ	470	½W	composition
R801	1-211-590-11	Ⓐ	10	½W	carbon (nonflammable)
R807,808	1-211-514-11	Ⓐ	47	¼W	carbon (nonflammable)
R903	1-244-640-11	Ⓐ	43	¼W	carbon
RT201	1-224-647-XX	Ⓑ	47 k, adjustable		
RT301	1-224-645-XX	Ⓑ	10 k, adjustable		
RT501	1-224-646-XX	Ⓑ	22 k, adjustable		
RV501,551	1-224-102-00	Ⓗ	Variable, 250 k (B); VOLUME		
RV502,552, RV503,553	1-230-300-XX	Ⓒ	Variable, 50 k; BASS, TONE, TREBLE, TONE		
RV504,554	1-224-102-00	Ⓗ	Variable, 250 k; BALANCE		
RV505,555	1-222-542-00	Ⓔ	Variable, 100 k; MIC MIXING		

SWITCHES

S1	1-516-676-00	Ⓘ	Rotary/Slide, FUNCTION
S2	1-516-675-00	Ⓗ	Pushbutton, 4-key; MONITOR, MODE, MUTING
S3	1-514-907-00	Ⓑ	Slide, MONITOR
S4–6	1-516-675-00	Ⓗ	Pushbutton, 4-key; MONITOR, MODE, MUTING
S7,8	1-516-674-00	Ⓔ	Pushbutton, 2-key; LOUDNESS, HI-FILTER
S9	1-516-673-00	Ⓖ	Rotary/Slide, SPEAKER
S901	1-516-315-00	Ⓔ	Lever, power

FILTERS

CF201,202	1-527-220-XX	Ⓕ	Fm I-F, ceramic; 10.7 MHz

FUSES

F901	1-532-259-11	Ⓑ	1.6 AT
F902	1-532-204-11	Ⓑ	2 AT
F903,904	1-532-237-11	Ⓑ	3.15 AT

LAMPS

PL901	1-518-236-00	Ⓑ	Meter
PL902,903	1-518-070-XX	Ⓑ	Dial, 8 V 300 mA
PL904	1-518-230-00	Ⓔ	Pointer, dial
PL905	1-518-169-XX	Ⓑ	STEREO, 4.5 V 40 mA

MISCELLANEOUS

CB601,651	1-532-380-41	Ⓔ	Circuit Breaker, 2.2 A
CNJ901	1-509-551-00	Ⓑ	Connector, REC/PB
J901	1-507-448-00	Ⓑ	Jack, MIC
J902	1-507-479-XX	Ⓑ	Jack, HEADPHONES
J903–906, J953–956	1-507-379-XX	Ⓔ	Jack, phono; 8-p
J907,957, J908,958	1-507-365-XX	Ⓒ	Jack, TAPE-2, REC OUT-2
LP301,302	1-231-303-00	Ⓑ	Filter, low-pass

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

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Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.		Description
ME901	1-520-130-33	Ⓖ	Meter, SIGNAL
TM901	1-536-506-00	Ⓓ	Terminal Strip, ANTENNA
TM902,903	1-536-415-XX	Ⓑ	Terminal Strip, 4-p; A. SPEAKER, B. SPEAKER
1-508-690-00		Ⓒ	Plug, voltage selector
1-509-546-00		Ⓓ	Connector, ac input; 3-p
1-533-051-XX		Ⓑ	Holder, dial lamp
1-533-069-XX		Ⓒ	Holder, fuse; 4-p
1-536-430-00		Ⓑ	Terminal Strip, 1L 1

ACCESSORIES AND PACKING MATERIALS

Part No.		Description
X-4490-002-1	Ⓑ	Cloth Ass'y, polishing
1-506-161-11	Ⓗ	Feeder Antenna
1-534-819-12	Ⓖ	Cord, power (UK model)
3-429-126-00	Ⓑ	Bag, plastic
3-701-020-00	Ⓐ	Bag, check sheet for speaker
3-701-622-00	Ⓐ	Bag, plastic (UK model)
3-780-481-13	Ⓓ	Manual, instruction (AEP model)
3-780-481-14	Ⓓ	Manual, instruction (UK model)
4-838-830-03	Ⓗ	Carton
4-838-831-01	Ⓒ	Cushion

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

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	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10k	1-244-697-11	100k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11k	1-244-698-11	110k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12k	1-244-699-11	120k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13k	1-244-700-11	130k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15k	1-244-701-11	150k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16k	1-244-702-11	160k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18k	1-244-703-11	180k	1-244-737-11	1.8M	1-244-751-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20k	1-244-704-11	200k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22k	1-244-705-11	220k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24k	1-244-706-11	240k	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27k	1-244-707-11	270k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30k	1-244-708-11	300k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33k	1-244-709-11	330k	1-244-733-11	3.3M	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36k	1-244-710-11	360k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39k	1-244-711-11	390k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3k	1-244-688-11	43k	1-244-712-11	430k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47k	1-244-713-11	470k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51k	1-244-714-11	510k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56k	1-244-715-11	560k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644-11	620	1-244-668-11	6.2k	1-244-692-11	62k	1-244-716-11	620k	1-244-740-11		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68k	1-244-717-11	680k	1-244-741-11		
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5k	1-244-694-11	75k	1-244-718-11	750k	1-244-742-11		
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11	82k	1-244-719-11	820k	1-244-743-11		
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91k	1-244-720-11	910k	1-244-744-11		

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