

STR-AV30R

SERVICE MANUAL



AEP Model

Universal Control

General
Systems

Tuner section: PLL dual-lock digital
Stabilizer section: low-noise NF stage
Power supply: dual
Speaker output: 100 mW
Power consumption: 250 W AC, 200 W DC
Dimensions: 17.5" x 11" x 11.5" (440 x 280 x 290 mm)
Weight: 8.5 kg (19 lb 11 oz)

AC outlet
Power delivery unit

Speaker
SEPP

Power consumption
100 mW

Two-wire filter (optional)
Speaker connection: 100 ohms

Speaker connection: 100 ohms

Power supply:
AC outlets

Dimensions
Weight

Model

SPECIFICATIONS

Amplifier section

Continuous RMS power output

According to DIN 45500

40 + 40 watts (8 ohms)

At 1 kHz

45 + 45 watts (1% THD, 8 ohms)

50 + 50 watts (1% THD, 4 ohms)

Harmonic distortion

Less than 0.8% at rated output

Frequency response

PHONO: RIAA equalization curve ± 0.5 dB

CD/AUX

VIDEO

TAPE/DAT

10 Hz - 70 kHz $^{+0.5}_{-1}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	77 dB 75 dB* (A, 2.5 mV)
CD/AUX VIDEO TAPE/DAT	150 mV	50 kilohms	95 dB 80 dB* (A, 150 mV)

* '78 IHF

Outputs

VIDEO (AUDIO) OUT

REC OUT

Voltage 150 mV

Impedance 10 kilohms

SPEAKERS A, B

Accepts speakers of 8 - 16 ohms.

HEADPHONES

Accepts low and high impedance headphones.

Tone controls

BASS

± 8 dB at 100 Hz

TREBLE

± 8 dB at 10 kHz

	FM tuner section	AM tuner section
Tuning range	87.5 - 108 MHz	531 - 1,602 kHz
Antenna terminals	300 ohms, balanced 75 ohms, unbalanced	External antenna terminal
Intermediate frequency	10.7 MHz	450 kHz
Sensitivity at 50 dB quieting	17.3 dBf, 4 μ V (mono) 38.3 dBf, 45 μ V (stereo)	—
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Layout-free antenna: 50 dB/m (at 1,000 kHz) External antenna: 100 μ V (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.15% (mono) 0.3% (stereo) at 1 kHz	0.3% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	—
Frequency response	30 Hz - 15 kHz $^{+0.5}_{-2}$ dB	—

- Continued on page 2 -

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK **A** 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.



MICROFILM

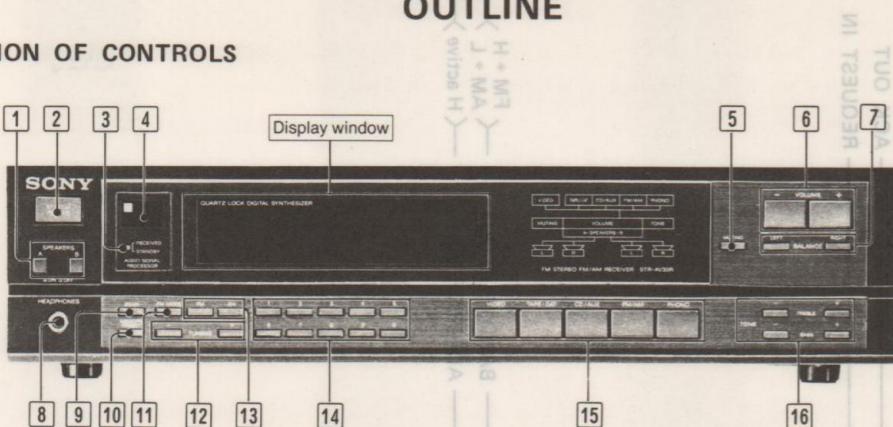
FM STEREO/FM-AM RECEIVER
SONY®

AUD

SECTION 1 OUTLINE

1-1. FUNCTION OF CONTROLS

FRONT



1 SPEAKERS selectors

Depress to select which speaker system to drive. For both speaker systems, depress A and B.

2 SYSTEM POWER switch

3 RECEIVED/STANDBY indicator

Lights when the system is connected to the power source. It blinks when a button on the Remote Commander is pressed.

4 Remote control sensor

5 MUTING button

Press to attenuate the sound level immediately. To restore it, press again.

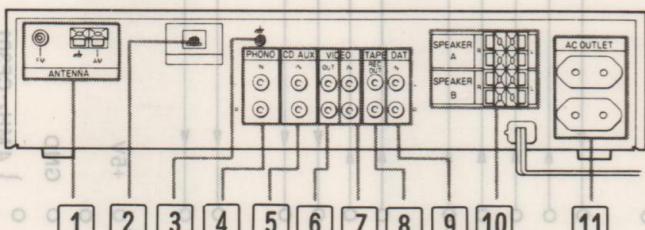
6 VOLUME control buttons

7 BALANCE control buttons

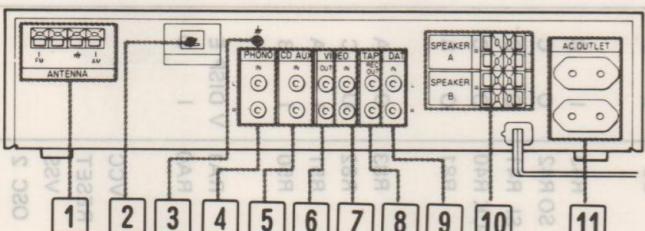
Press RIGHT to decrease the left channel volume, and press LEFT to decrease the right channel volume. Adjust while the BALANCE indicator is displayed.

REAR

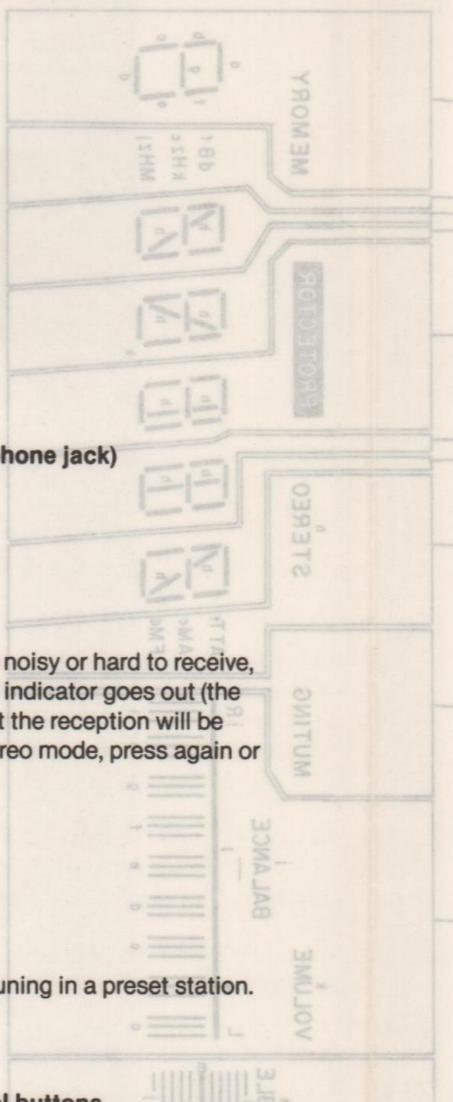
G-AEP MODEL



AEP MODEL



1-2. DISPLAY WINDOW



Display window

A TONE indicator

A straight bar graph indicates a flat frequency response.

B STEREO indicator

Lights when an FM stereo program of sufficient signal strength is tuned in.

C MEMORY indicator

Lights up when the **MEMORY PRESET** key is pressed.

To change the AM tuning interval (G-AEP model)

The AM tuning interval is preset to 9 kHz. To use the receiver where the frequency allocation system is based on a 10 kHz interval, make the following adjustments.

1. Press **SYSTEM POWER** and tune in any AM station.
2. Press **SYSTEM POWER** again to turn off the unit.
3. Press **SYSTEM POWER** again while pressing the '+' **TUNING** button.

To reset, repeat the above steps.

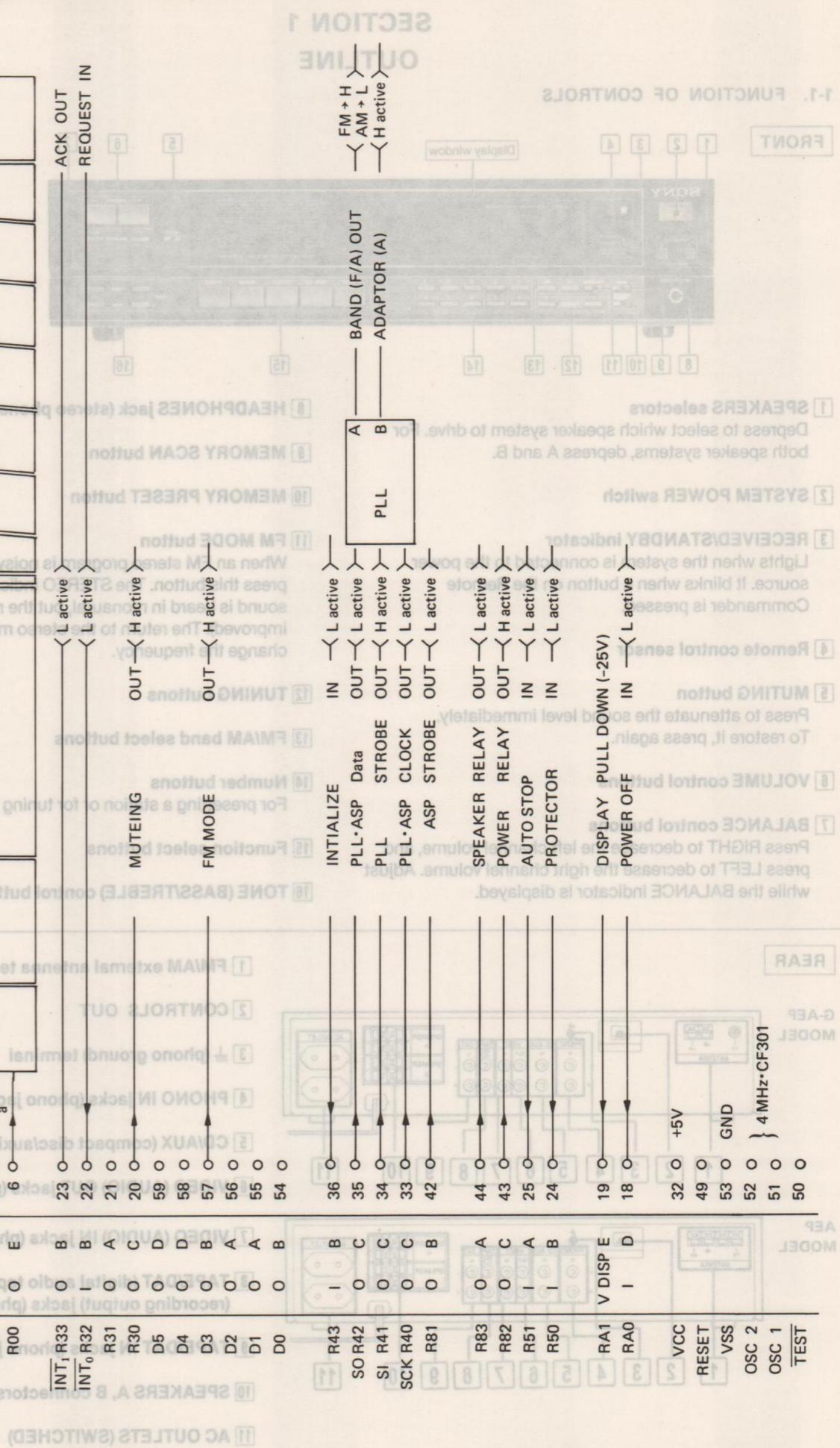
Note

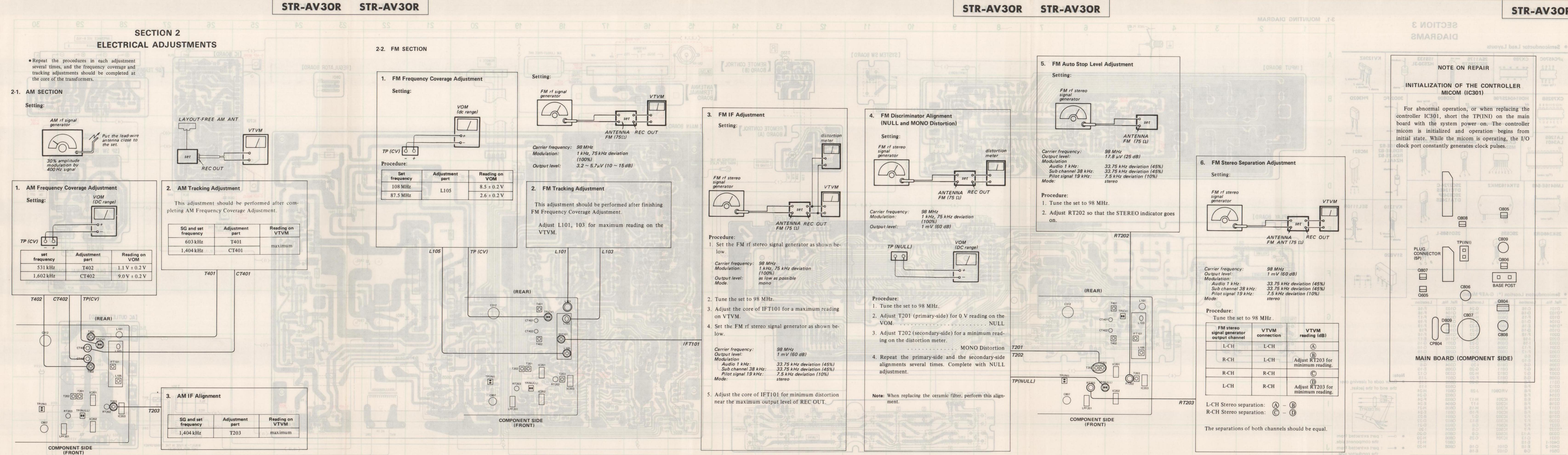
When the interval is changed, all preset stations that you have memorized will be erased. After changing the interval, be sure to preset them again.

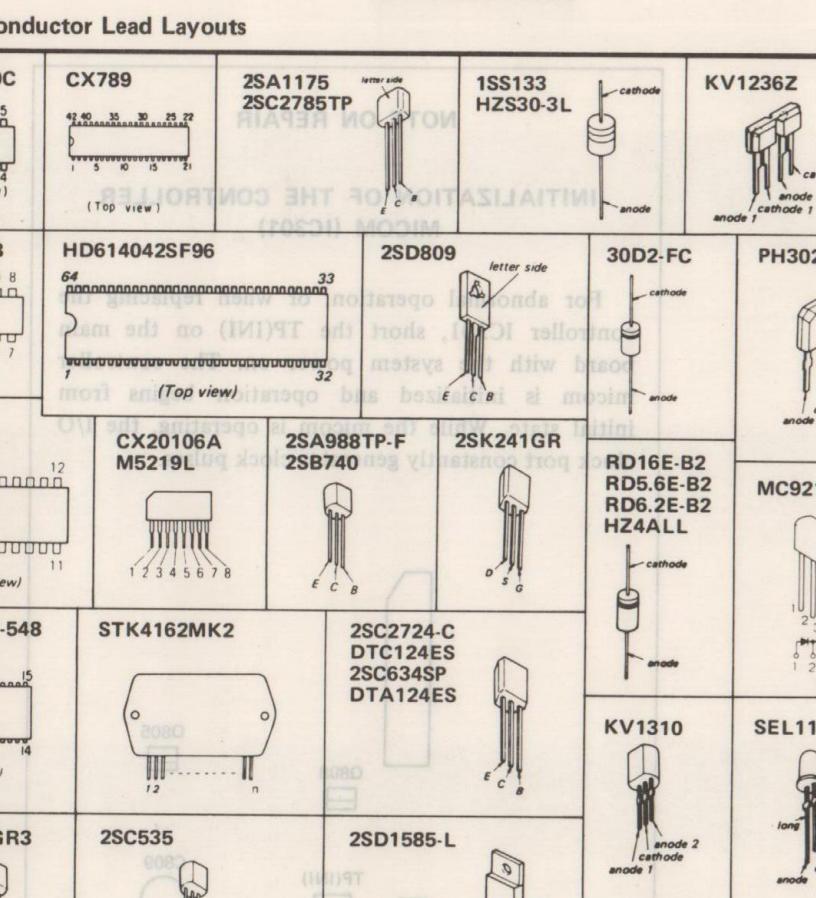
1-3. DESCRIPTION OF HD614042SF96 (IC301), THE FLUORESCENT INDICATOR (FR301) AND THE KEY BOARD

PORT MAP OF HD614042SF96 (IC301)

Pin Name	I/O DEFINIT.	Pin No.
R53	I B	27 O K16
R52	I B	26 O K15 D322 (G-AEP) 9/10K
R93	I B	48 O K14
R92	I B	47 O K13
R91	I B	46 O K12 D320 50K
R90	I B	45 O K11 D321 +/-
R80	O B	41 O T9
R73	O B	40 O T8
R72	O B	39 O T7
R71	O B	38 O T6
R70	O B	37 O T5
R63	O B	31 O T4
R62	O B	30 O T3
R61	O B	29 O T2
R60	O B	28 O T1
D15	O E	5 O DIG
D14	O E	4 O
D13	O E	3 O
D12	O E	2 O
D11	O E	1 O
D10	O E	64 O
D9	O E	63 O
D8	O E	62 O
D7	O E	61 O
D6	O E	60 O
R23	O E	17 O SEG I
R22	O E	16 O k
R21	O E	15 O j
R20	O E	14 O i
R13	O E	13 O h
R12	O E	12 O g
R11	O E	11 O f
R10	O E	10 O e
R03	O E	9 O d
R02	O E	8 O c
R01	O E	7 O b
R00	O E	6 O a
INT ₁ R33	O B	23 O
INT ₀ R32	O B	22 O
R31	O A	21 O
R30	O C	20 O
D5	O D	59 O
D4	O D	58 O
D3	O B	57 O
D2	O A	56 O
D1	O A	55 O
D0	O B	54 O



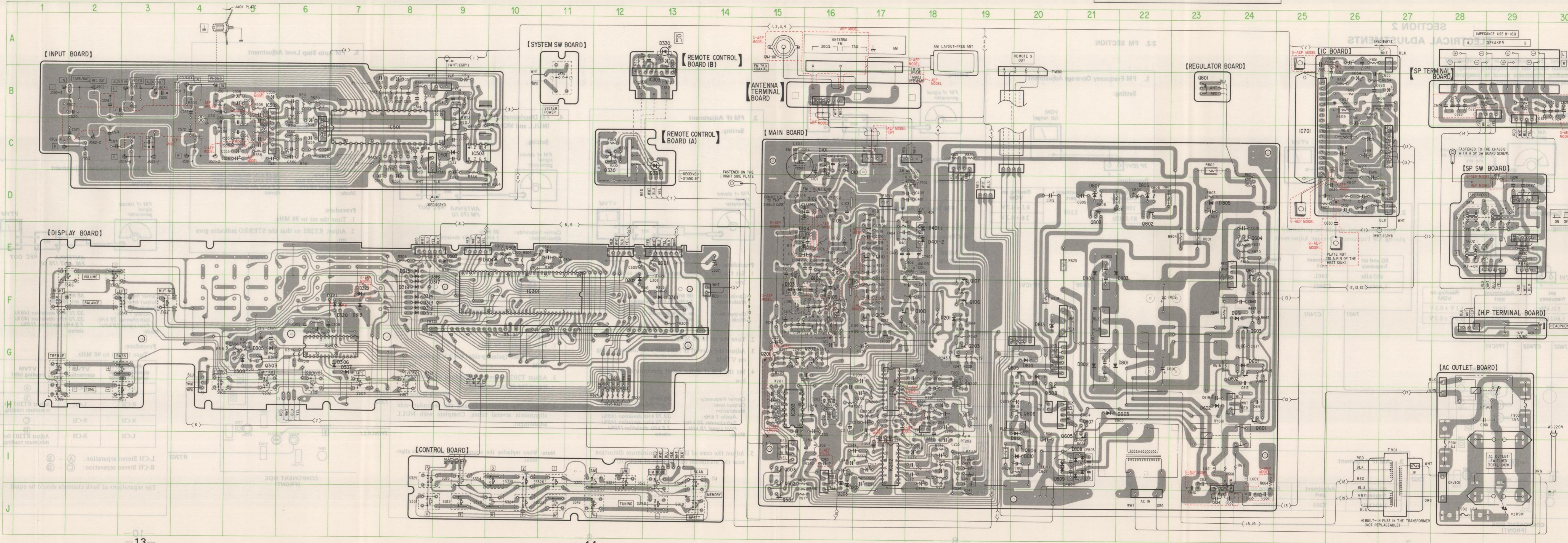


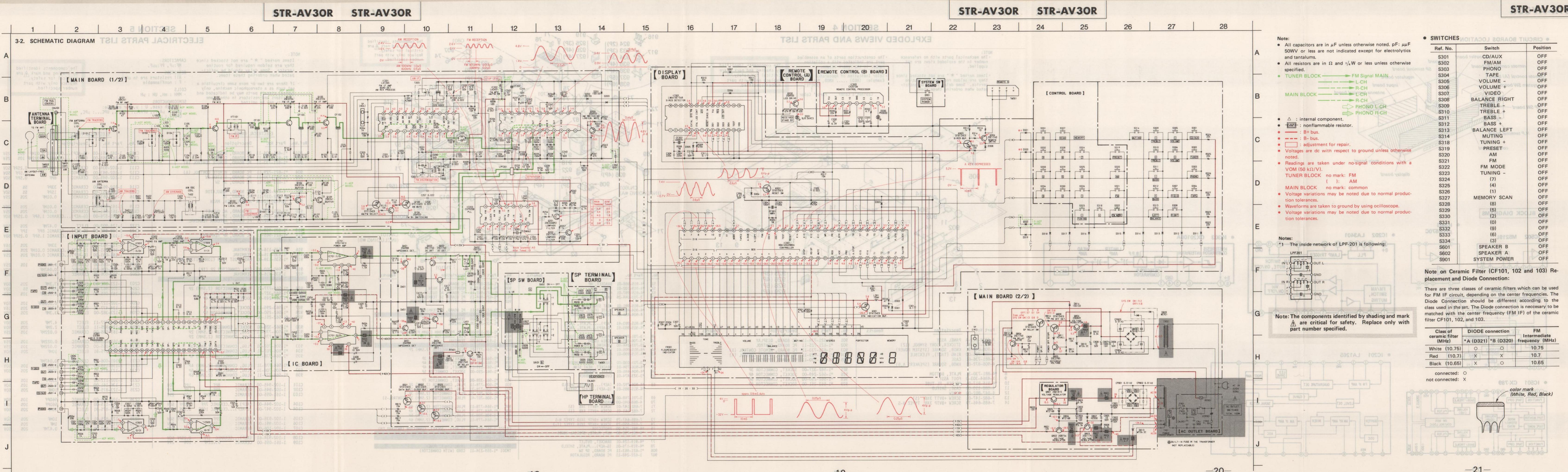
SECTION 3
DIAGRAMS

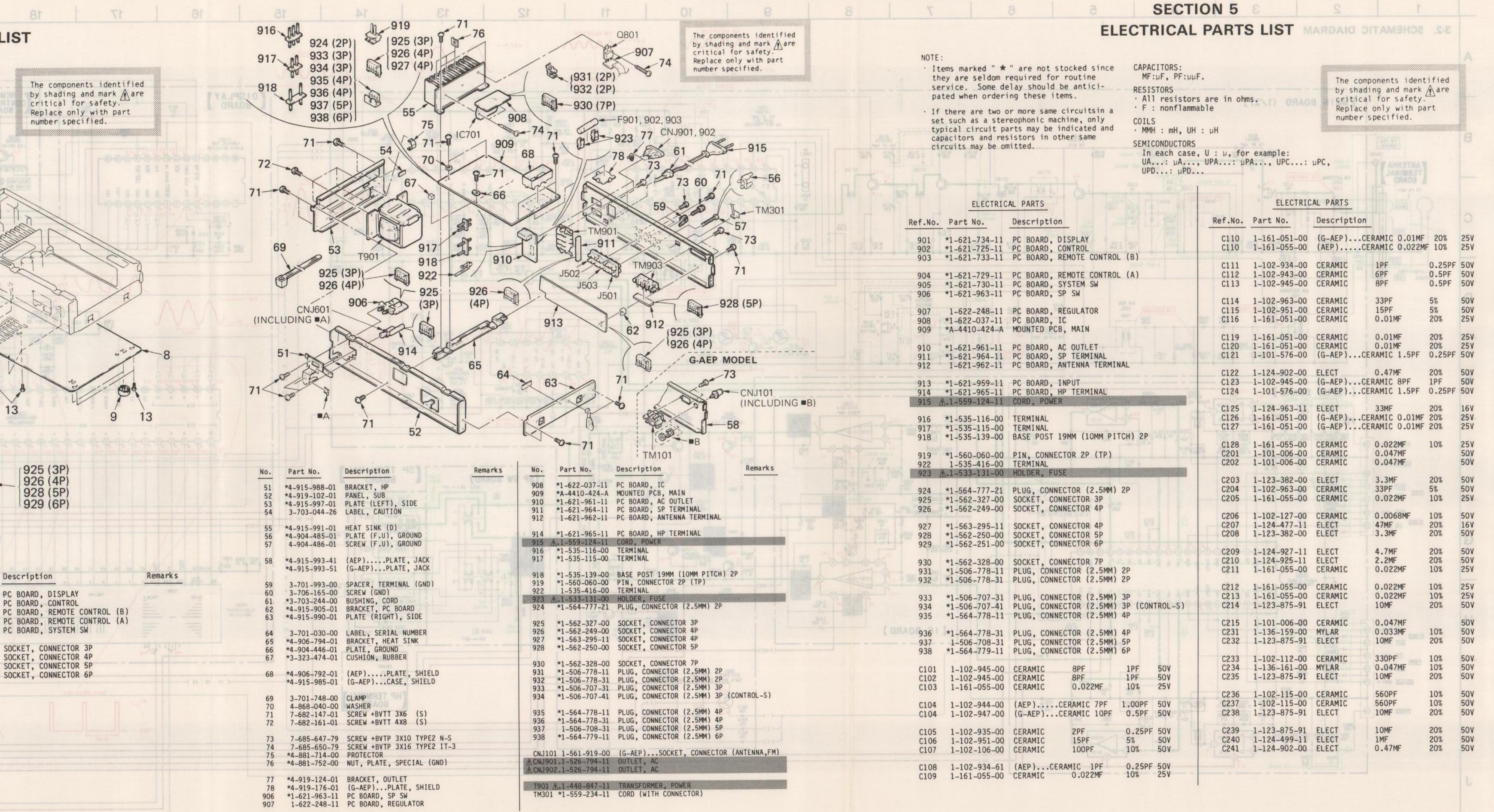
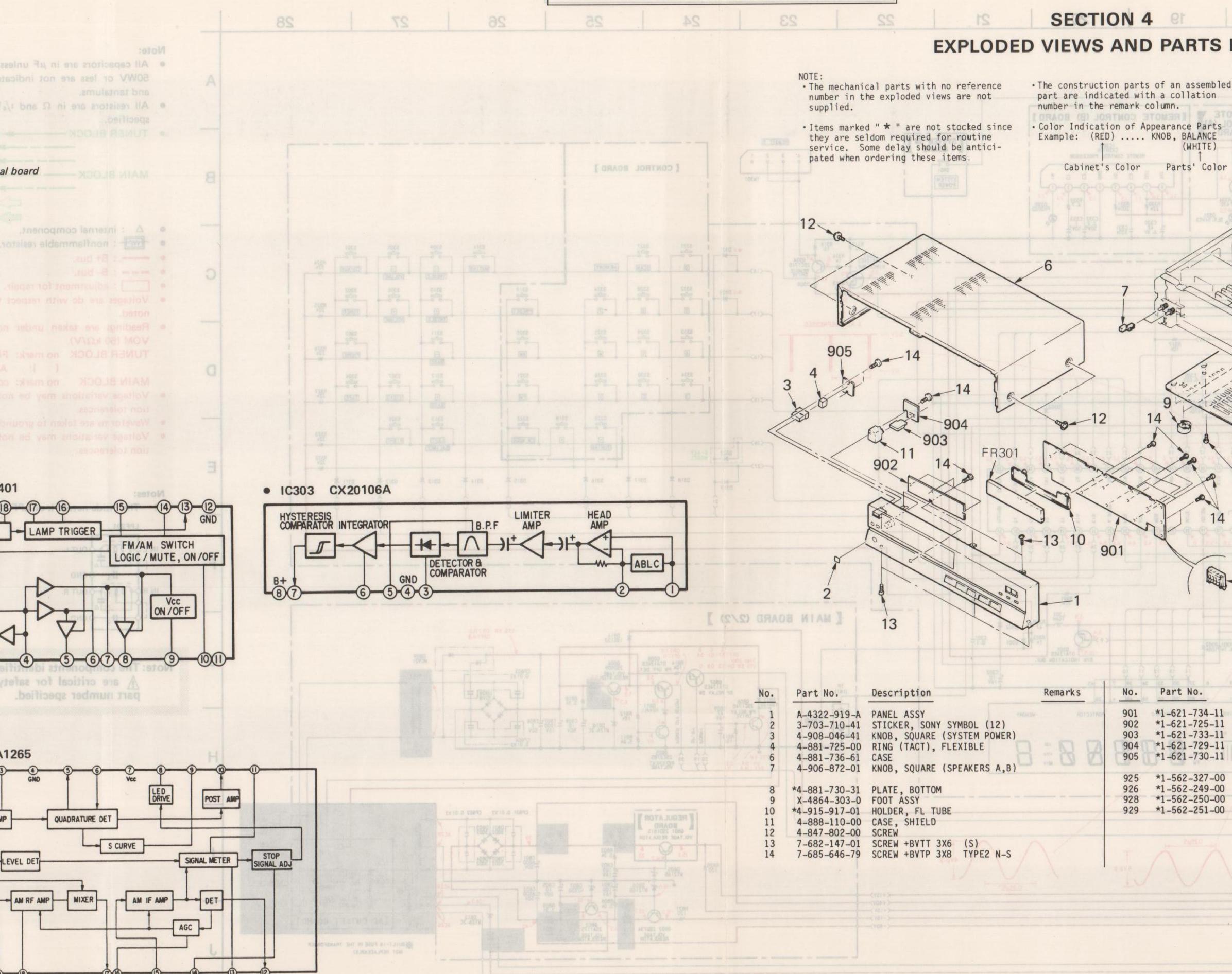
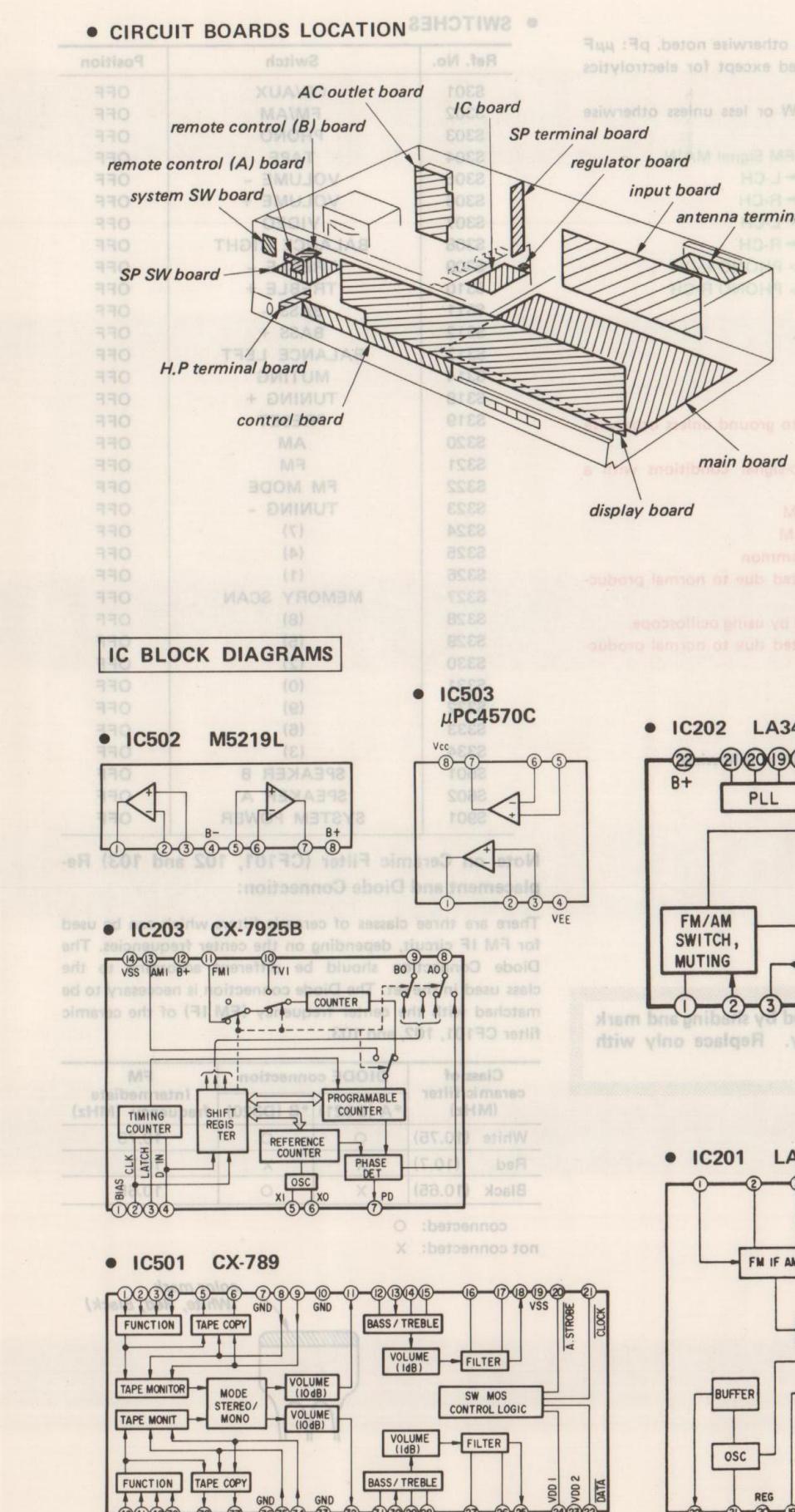
● Semiconductors Location (*: G-AEP Model)

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	C-16	D601	G-24	C103	F-16
*D102	D-16	D602	H-23	C104	F-16
D103	F-15	D603	H-21	C105	F-17
D104	D-16	D605	F-24	C106	F-19
D105	D-16	D607	G-22	C107	F-19
D106	D-16	D608	G-21	C108	F-18
D107	F-18	D609	E-22	C109	F-18
D108	I-16	D610	E-21	C110	E-7
D109	I-16	D611	E-20	C111	E-7
D110	G-7	D612	H-20	C112	E-7
D111	G-5	D613	F-20	C113	G-15
D112	F-8	D614	G-20	C114	G-16
D113	F-8	D615	D-21	C115	G-19
D114	E-9	D608	I-21	C116	E-13
D115	E-10	D609	I-20	C117	G-5
D116	D-10	D610	I-20	C118	G-5
D117	D-10	D611	G-20	C119	E-10
D118	G-7	D612	H-20	C120	C-12
D119	G-5	D613	F-20	C121	I-15
D120	F-8	D614	G-20	C122	I-15
D121	F-8	D615	D-21	C123	I-15
D122	F-8	VRD901	J-28	C124	G-24
D123	F-8	IC201	H-17	C125	F-24
D124	F-8	IC202	I-17	C126	E-24
D125	F-8	IC203	H-15	C127	E-24
D126	F-8	IC204	F-10	C128	H-21
D127	F-8	IC205	G-7	C129	E-24
D128	F-8	IC206	G-7	C130	B-13
D129	F-7	IC207	B-13	C131	B-13
D130	F-7	IC208	C-8	C132	D-22
D131	F-7	IC209	C-8	C133	D-21
D132	F-7	IC210	C-5	C134	I-20
D133	F-8	IC211	C-5	C135	I-20
D134	F-8	IC212	C-5	C136	I-20
D135	F-8	IC213	C-5	C137	I-20
D136	F-8	IC214	C-5	C138	I-20
D137	F-8	IC215	C-5	C139	I-20
D138	F-8	IC216	C-5	C140	I-20
D139	F-7	IC217	C-5	C141	I-20
D140	F-7	IC218	C-5	C142	I-20
D141	F-7	IC219	C-5	C143	I-20
D142	F-7	IC220	C-5	C144	I-20
D143	F-8	IC221	C-5	C145	I-20
D144	F-8	IC222	C-5	C146	I-20
D145	F-8	IC223	C-5	C147	I-20
D146	F-8	IC224	C-5	C148	I-20
D147	F-8	IC225	C-5	C149	I-20
D148	F-8	IC226	C-5	C150	I-20
D149	F-8	IC227	C-5	C151	I-20
D150	F-8	IC228	C-5	C152	I-20

3-1. MOUNTING DIAGRAM







ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Unit	Ref.No.	Part No.	Description	Value	Unit		
C242	1-124-499-11	ELECT	1MF	20%	50V	C523	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V
C243	1-124-902-00	ELECT	0.47MF	20%	50V	C524	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V
C244	1-124-499-11	ELECT	1MF	20%	50V	C530	1-123-617-00	ELECT	10MF	20%	16V
C245	1-124-477-11	ELECT	47MF	20%	16V	C531	1-123-617-00	ELECT	10MF	20%	16V
C247	1-161-055-00	CERAMIC	0.022MF	10%	25V	C532	1-101-005-00	CERAMIC	0.022MF	10%	50V
C250	1-161-051-00	(G-AEP)...CERAMIC	0.01MF	20%	25V	C533	1-101-001-00	CERAMIC	0.001MF	10%	50V
C251	1-161-055-00	CERAMIC	0.022MF	10%	25V	C534	1-101-001-00	CERAMIC	0.001MF	10%	50V
C252	1-102-526-00	CERAMIC	75PF	5%	50V	C535	1-101-001-00	CERAMIC	0.001MF	10%	50V
C253	1-101-880-00	CERAMIC	47PF	5%	50V	C551	1-162-282-31	CERAMIC	100PF	10%	50V
C254	1-161-055-00	CERAMIC	0.022MF	10%	25V	C552	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C255	1-123-875-91	ELECT	10MF	20%	50V	C553	1-124-258-00	ELECT	3.3MF	20%	50V
C256	1-102-106-00	CERAMIC	100PF	10%	50V	C554	1-102-106-00	CERAMIC	100PF	10%	50V
C257	1-161-055-00	CERAMIC	0.022MF	10%	25V	C555	1-101-880-00	CERAMIC	47PF	5%	50V
C258	1-161-055-00	CERAMIC	0.022MF	10%	25V	C556	1-123-645-00	ELECT	33MF	20%	10V
C259	1-124-963-11	ELECT	33MF	20%	16V	C557	1-130-480-00	MYLAR	0.0056MF	5%	50V
C260	1-124-184-00	ELECT(NONPOLAR)	3.3MF	20%	50V	C558	1-130-473-00	MYLAR	0.0015MF	5%	50V
C261	1-161-051-00	(G-AEP)...CERAMIC	0.01MF	20%	25V	C559	1-124-257-00	ELECT	2.2MF	20%	50V
C262	1-161-051-00	(G-AEP)...CERAMIC	0.01MF	20%	25V	C560	1-102-959-00	CERAMIC	22PF	5%	50V
C301	1-136-165-00	FILM	0.1MF	5%	50V	C561	1-124-224-00	ELECT	47MF	20%	6.3V
C302	1-123-617-00	ELECT	10MF	20%	16V	C562	1-123-611-00	ELECT	1MF	20%	50V
C303	1-162-282-31	CERAMIC	100PF	10%	50V	C563	1-136-169-00	FILM	0.22MF	5%	50V
C304	1-162-282-31	CERAMIC	100PF	10%	50V	C564	1-130-483-00	MYLAR	0.01MF	5%	50V
C305	1-161-494-00	CERAMIC	0.022MF	25V	C565	1-123-611-00	ELECT	1MF	20%	50V	
C306	1-124-465-00	ELECT	0.47MF	20%	50V	C570	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C307	1-123-611-00	ELECT	1MF	20%	50V	C571	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C308	1-162-286-31	CERAMIC	220PF	10%	50V	C572	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C309	1-162-286-31	CERAMIC	220PF	10%	50V	C573	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V
C310	1-123-611-00	ELECT	1MF	20%	50V	C574	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V
C311	1-136-165-00	FILM	0.1MF	5%	50V	C601	1-102-114-00	CERAMIC	470PF	10%	50V
C312	1-124-958-11	ELECT	3900MF	5.5V	C602	1-124-927-11	ELECT	4.7MF	20%	50V	
C330	1-124-224-00	ELECT	47MF	20%	6.3V	C603	1-102-112-00	CERAMIC	330PF	10%	50V
C331	1-162-288-31	CERAMIC	330PF	10%	50V	C604	1-124-445-00	ELECT	100MF	20%	16V
C332	1-124-258-00	ELECT	3.3MF	20%	50V	C605	1-102-936-00	CERAMIC	3PF	0.5PF	50V
C333	1-123-611-00	ELECT	1MF	20%	50V	C606	1-124-910-11	ELECT	47MF	20%	50V
C401	1-161-055-00	CERAMIC	0.022MF	10%	25V	C607	1-123-875-91	ELECT	10MF	20%	50V
C402	1-102-951-00	CERAMIC	15PF	5%	50V	C608	1-124-122-11	ELECT	100MF	20%	50V
C403	1-104-294-11	POLYSTYRENE	470PF	5%	50V	C609	1-123-875-91	ELECT	10MF	20%	50V
C404	1-161-055-00	CERAMIC	0.022MF	10%	25V	C610	1-124-122-11	ELECT	100MF	20%	50V
C405	1-161-055-00	CERAMIC	0.022MF	10%	25V	C615	1-136-161-00	MYLAR	0.047MF	10%	50V
C501	1-162-282-31	CERAMIC	100PF	10%	50V	C616	1-130-495-00	MYLAR	0.1MF	5%	50V
C502	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V	C617	1-124-472-11	ELECT	470MF	20%	6.3V
C503	1-124-258-00	ELECT	3.3MF	20%	50V	C618	1-124-925-11	ELECT	2.2MF	20%	50V
C504	1-102-106-00	CERAMIC	100PF	10%	50V	C619	1-123-875-91	ELECT	10MF	20%	50V
C505	1-101-880-00	CERAMIC	47PF	5%	50V	C622	1-161-055-00	(G-AEP)...CERAMIC	0.022MF	10%	25V
C506	1-123-645-00	ELECT	33MF	20%	10V	C625	1-161-055-00	(G-AEP)...CERAMIC	0.022MF	10%	25V
C507	1-130-480-00	MYLAR	0.0056MF	5%	50V	C626	1-101-005-00	CERAMIC	0.022MF	10%	50V
C508	1-130-473-00	MYLAR	0.0015MF	5%	50V	C627	1-101-005-00	CERAMIC	0.022MF	10%	50V
C509	1-124-257-00	ELECT	2.2MF	20%	50V	C630	1-161-621-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C510	1-102-959-00	CERAMIC	22PF	5%	50V	C631	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C511	1-124-224-00	ELECT	47MF	20%	6.3V	C632	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C512	1-123-611-00	ELECT	1MF	20%	50V	C633	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C513	1-136-169-00	FILM	0.22MF	5%	50V	C634	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C514	1-130-483-00	MYLAR	0.01MF	5%	50V	C635	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C515	1-123-611-00	ELECT	1MF	20%	50V	C636	1-161-021-11	(G-AEP)...CERAMIC	0.047MF	20%	25V
C520	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V	C651	1-102-114-00	CERAMIC	470PF	10%	50V
C521	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V						
C522	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V						

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Unit	Ref.No.	Part No.	Description	Value	Unit		
C523	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V	C524	1-162-290-31	(G-AEP)...CERAMIC	470PF	10%	50V
C530	1-123-617-00	ELECT	10MF	20%	16V	C531	1-123-617-00	ELECT	10MF	20%	16V
C532	1-101-005-00	CERAMIC	0.022MF	10%	50V	C533	1-101-001-00	CERAMIC	0.001MF	10%	50V
C534	1-101-001-00	CERAMIC	0.001MF	10%	50V	C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552</td											

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Part No.	Ref.No.
L601	*1-420-872-00	COIL, AIR CORE	100-318-001-00	0311
L651	*1-420-872-00	COIL, AIR CORE	8-318-001-00	0312
LPF201	1-235-221-00	FILTER, LOW PASS	8-318-001-00	0313
Q101	8-729-200-56	TRANSISTOR 2SK241GR	8-318-001-00	0314
Q102	8-729-353-52	TRANSISTOR 2SC535	8-318-001-00	0315
Q103	8-729-672-42	TRANSISTOR 2SC2724-C	8-318-001-00	0316
Q104	8-729-672-42	TRANSISTOR 2SC2724-C	8-318-001-00	0317
Q105	8-729-672-42	TRANSISTOR 2SC2724-C	8-318-001-00	0318
Q106	8-729-117-54	TRANSISTOR 2SA1175	8-318-001-00	0319
Q107	8-729-900-36	TRANSISTOR DTC124ES	8-318-001-00	0320
Q108	8-729-900-36	TRANSISTOR DTC124ES	8-318-001-00	0321
Q109	8-729-200-56	(G-AEP)....TRANSISTOR 2SK241GR	8-318-001-00	0322
Q110	8-729-672-42	(G-AEP)....TRANSISTOR 2SC2724-C	8-318-001-00	0323
Q201	8-729-202-67	TRANSISTOR 2SK246-GR3	8-318-001-00	0324
Q202	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0325
Q203	8-729-117-54	TRANSISTOR 2SA1175	8-318-001-00	0326
Q301	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0327
Q302	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0328
Q330	8-729-117-54	TRANSISTOR 2SA1175	8-318-001-00	0329
Q501	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0330
Q502	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0331
Q503	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0332
Q601	8-729-108-14	TRANSISTOR 2SA988F	8-318-001-00	0333
Q602	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0334
Q603	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0335
Q604	8-729-178-54	TRANSISTOR 2SC2785	8-318-001-00	0336
Q605	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0337
Q651	8-729-108-14	TRANSISTOR 2SA988F	8-318-001-00	0338
Q801	8-729-107-25	TRANSISTOR 2SD1585-L	8-318-001-00	0339
Q802	8-729-374-02	TRANSISTOR 2SB740	8-318-001-00	0340
Q803	8-729-117-54	TRANSISTOR 2SA1175	8-318-001-00	0341
Q804	8-729-180-93	TRANSISTOR 2SD809	8-318-001-00	0342
Q805	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0343
Q806	8-729-600-27	TRANSISTOR 2SC634SP	8-318-001-00	0344
Q807	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0345
Q808	8-729-900-63	TRANSISTOR DTA124ES	8-318-001-00	0346
R101	1-249-441-11	CARBON	100-318-001-00	0347
R102	1-249-437-11	CARBON	47K 5% 1/4W	0348
R103	1-249-401-11	CARBON	47K 5% 1/4W	0349
R104	1-249-411-11	CARBON	330 5% 1/4W	0350
R105	1-249-441-11	CARBON	100K 5% 1/4W	0351
R106	1-215-483-00	CARBON	390K 5% 1/4W	0352
R107	1-249-411-11	CARBON	330 5% 1/4W	0353
R108	1-215-491-00	CARBON	820K 5% 1/4W	0354
R109	1-249-428-11	CARBON	8.2K 5% 1/4W	0355
R110	1-249-428-11	CARBON	8.2K 5% 1/4W	0356
R111	1-249-422-11	CARBON	2.7K 5% 1/4W	0357
R112	1-249-429-11	CARBON	10K 5% 1/4W	0358
R113	1-249-405-11	CARBON	100 5% 1/4W	0359
R114	1-249-406-11	CARBON	120 5% 1/4W	0360
R115	1-249-429-11	CARBON	10K 5% 1/4W	0361
R116	1-249-411-11	CARBON	330 5% 1/4W	0362
R117	1-249-405-11	CARBON	100 5% 1/4W	0363
R118	1-249-414-11	CARBON	560 5% 1/4W	0364

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Part No.	Ref.No.
R119	1-249-411-11	CARBON	330 5% 1/4W	0365
R120	1-249-433-11	CARBON	22K 5% 1/4W	0366
R121	1-249-433-11	CARBON	22K 5% 1/4W	0367
R122	1-249-411-11	CARBON	330 5% 1/4W	0368
R123	1-249-424-11	CARBON	3.9K 5% 1/4W	0369
R124	1-249-414-11	CARBON	560 5% 1/4W	0370
R125	1-249-411-11	(G-AEP)....CARBON	330 5% 1/4W	0371
R126	1-249-441-11	(G-AEP)....CARBON	100K 5% 1/4W	0372
R127	1-249-437-11	(G-AEP)....CARBON	47K 5% 1/4W	0373
R128	1-249-414-11	(G-AEP)....CARBON	560 5% 1/4W	0374
R129	1-249-433-11	(G-AEP)....CARBON	22K 5% 1/4W	0375
R130	1-249-433-11	(G-AEP)....CARBON	22K 5% 1/4W	0376
R201	1-249-435-11	CARBON	33K 5% 1/4W	0377
R202	1-247-849-00	CARBON	5.6K 5% 1/4W	0378
R203	1-249-432-11	CARBON	18K 5% 1/4W	0379
R204	1-249-417-11	CARBON	1K 5% 1/4W	0380
R205	1-249-405-11	CARBON	100 5% 1/4W	0381
R206	1-249-423-11	CARBON	3.3K 5% 1/4W	0382
R207	1-249-429-11	CARBON	10K 5% 1/4W	0383
R208	1-249-429-11	CARBON	10K 5% 1/4W	0384
R209	1-249-406-11	CARBON	120 5% 1/4W	0385
R210	1-249-438-11	CARBON	56K 5% 1/4W	0386
R225	1-247-883-00	CARBON	150K 5% 1/4W	0387
R231	1-247-881-00	CARBON	120K 5% 1/4W	0388
R232	1-247-881-00	CARBON	120K 5% 1/4W	0389
R233	1-249-423-11	CARBON	3.3K 5% 1/4W	0390
R234	1-249-423-11	CARBON	3.3K 5% 1/4W	0391
R236	1-249-441-11	CARBON	100K 5% 1/4W	0392
R237	1-249-417-11	CARBON	1K 5% 1/4W	0393
R238	1-247-883-00	CARBON	150K 5% 1/4W	0394
R239	1-249-406-11	CARBON	120 5% 1/4W	0395
R240	1-249-425-11	CARBON	4.7K 5% 1/4W	0396
R241	1-249-437-11	CARBON	47K 5% 1/4W	0397
R242	1-249-429-11	CARBON	10K 5% 1/4W	0398
R243	1-249-429-11	CARBON	10K 5% 1/4W	0399
R244	1-249-429-11	CARBON	10K 5% 1/4W	0400
R251	1-249-429-11	CARBON	10K 5% 1/4W	0401
R252	1-249-429-11	CARBON	10K 5% 1/4W	0402
R253	1-249-429-11	CARBON	10K 5% 1/4W	0403
R254	1-249-417-11	CARBON	1K 5% 1/4W	0404
R255	1-249-425-11	CARBON	4.7K 5% 1/4W	0405
R256	1-249-411-11	CARBON	330 5% 1/4W	0406
R257	1-249-417-11	CARBON	1K 5% 1/4W	0407
R258	1-249-424-11	CARBON	3.9K 5% 1/4W	0408
R259	1-249-425-11	CARBON	4.7K 5% 1/4W	0409
R260	1-249-406-11	CARBON	120 5% 1/4W	0410
R301	1-249-425-11	CARBON	4.7K 5% 1/4W	0411
R302	1-249-441-11	CARBON	100K 5% 1/4W	0412
R303	1-249-417-11	CARBON	1K 5% 1/4W	0413
R304	1-247-895-00	CARBON	470K 5% 1/4W	0414
R305	1-215-493-00	CARBON	1M 5% 1/4W	0415
R306	1-249-428-11	CARBON	8.2K 5% 1/4W	0416
R307	1-249-429-11	CARBON	10K 5% 1/4W	0417
R308	1-215-493-00	CARBON	1M 5% 1/4W	0418
R309	1-247-895-00	CARBON	470K 5% 1/4W	0419

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Part No.	Ref.No.

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ELECTRICAL PARTS

Ref. No.	Part No.	Description				
R808	1-249-423-11	CARBON	3.3K	5%	1/4W	
R809	Δ.1-249-455-11	CARBON	4.7	5%	1/4W	F
R810	1-249-423-11	CARBON	3.3K	5%	1/4W	
R811	1-247-849-00	CARBON	5.6K	5%	1/4W	
R812	1-249-429-11	CARBON	10K	5%	1/4W	
R813	1-249-429-11	CARBON	10K	5%	1/4W	
R814	1-249-429-11	CARBON	10K	5%	1/4W	
R815	1-249-431-11	CARBON	15K	5%	1/4W	
R816	1-249-431-11	CARBON	15K	5%	1/4W	
R817	1-249-431-11	CARBON	15K	5%	1/4W	
R818	Δ.1-249-455-11	CARBON	4.7	5%	1/4W	F
R820	1-249-406-11	CARBON	120	5%	1/4W	
R821	1-249-406-11	CARBON	120	5%	1/4W	
RT202	1-228-995-00	RES, ADJ, CARBON 22K (AUTO STOP LEVEL)				
RT203	1-228-998-00	RES, ADJ, CARBON 220K (STEREO SEPARATION)				
RY601	1-515-533-11	RELAY (SPEAKER)				
RY901	Δ.1-515-617-11	RELAY (POWER)				
S301	1-554-303-21	SWITCH, KEY BOARD (CD/AUX)				
S302	1-554-303-21	SWITCH, KEY BOARD (FM/AM)				
S303	1-554-303-21	SWITCH, KEY BOARD (PHONO)				
S304	1-554-303-21	SWITCH, KEY BOARD (TAPE)				
S305	1-554-303-21	SWITCH, KEY BOARD (VOLUME -)				
S306	1-554-303-21	SWITCH, KEY BOARD (VOLUME +)				
S307	1-554-303-21	SWITCH, KEY BOARD (VIDEO)				
S308	1-554-303-21	SWITCH, KEY BOARD (BALANCE RIGHT)				
S309	1-554-303-21	SWITCH, KEY BOARD (TREBLE -)				
S310	1-554-303-21	SWITCH, KEY BOARD (TREBLE +)				
S311	1-554-303-21	SWITCH, KEY BOARD (BASS -)				
S312	1-554-303-21	SWITCH, KEY BOARD (BASS +)				
S313	1-554-303-21	SWITCH, KEY BOARD (BALANCE LEFT)				
S314	1-554-303-21	SWITCH, KEY BOARD (MUTING)				
S318	1-554-303-21	SWITCH, KEY BOARD (TUNING +)				
S319	1-554-303-21	SWITCH, KEY BOARD (PRESET)				
S320	1-554-303-21	SWITCH, KEY BOARD (AM)				
S321	1-554-303-21	SWITCH, KEY BOARD (FM)				
S322	1-554-303-21	SWITCH, KEY BOARD (FM MODE)				
S323	1-554-303-21	SWITCH, KEY BOARD (TUNING -)				
S324	1-554-303-21	SWITCH, KEY BOARD (7)				
S325	1-554-303-21	SWITCH, KEY BOARD (4)				
S326	1-554-303-21	SWITCH, KEY BOARD (1)				
S327	1-554-303-21	SWITCH, KEY BOARD (MEMORY SCAN)				
S328	1-554-303-21	SWITCH, KEY BOARD (8)				
S329	1-554-303-21	SWITCH, KEY BOARD (5)				
S330	1-554-303-21	SWITCH, KEY BOARD (2)				

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
S331	1-554-303-21	SWITCH, KEY BOARD (0)
S332	1-554-303-21	SWITCH, KEY BOARD (9)
S333	1-554-303-21	SWITCH, KEY BOARD (6)
S334	1-554-303-21	SWITCH, KEY BOARD (3)
S601	1-570-270-11	SWITCH, PUSH (2 KEY)(SPEAKERS A)
S602	1-570-270-11	SWITCH, PUSH (2 KEY)(SPEAKERS B)
S901	1-552-412-00	SWITCH, KEY BOARD (SYSTEM POWER)
T201	1-404-650-11	COIL, DISCRIMINATOR
T202	1-404-651-11	COIL, DISCRIMINATOR
T203	1-404-713-11	TRANSFORMER, IF (AM)
T401	1-402-197-11	COIL AM (ANTENNA)
T402	1-405-927-00	COIL, AM OSC
T901	Δ.1-448-847-11	TRANSFORMER, POWER
T902	Δ.1-448-848-11	TRANSFORMER, POWER (BACK UP)
TM101	1-536-707-00	(G-AEP)...TERMINAL BOARD, PUSH 2P (AM ANTENNA)
TM301	*1-559-234-11	CORD (WITH CONNECTOR)
TM901	1-536-706-00	TERMINAL BOARD (SP)
TM903	1-536-708-00	(AEP)...TERMINAL BOARD, PUSH 4P (ANTENNA)
Δ.VZR901	1-807-180-11	VARISTOR SNR-14A300K
X201	1-567-125-00	VIBRATOR, CRYSTAL (7.2MHz)

ACCESSORY & PACKING MATERIAL

<u>Part No.</u>	<u>Description</u>
1-463-832-11	REMOTE COMMANDER (RM-S40)
1-501-224-00	(AEP)....ANTENNA, FEEDER
1-501-349-11	ANTENNA, LOOP
3-701-630-00	BAG, POLYETHYLENE
3-703-676-00	(G-AEP)...LABEL, APPROVAL
3-765-955-11	(G-AEP)...MANUAL, INSTRUCTION
3-765-955-41	(AEP)....MANUAL, INSTRUCTION
4-858-078-00	SHEET, PROTECTION
4-919-137-61	INDIVIDUAL CARTON
4-919-138-01	CUSHION, LOWER
4-919-139-01	CUSHION, UPPER

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

TROUBLESHOOTING

PROBLEM	SOLUTION
STEREO indicator flickers or does not light up when stereo programs are received.	<ul style="list-style-type: none"> Adjust the antenna or connect an external FM antenna. Press FM MODE to disengage the stereo mode.
The figures in the display window do not stop at the desired station during sweep tuning.	<ul style="list-style-type: none"> Adjust the antenna. Tune in the station using the direct access tuning.
Stations cannot be tuned in correctly when the number button is pressed.	<ul style="list-style-type: none"> Memorize the frequency correctly.
AM stations cannot be tuned in.	<ul style="list-style-type: none"> Connect the supplied AM layout-free antenna to the AM external antenna terminals.
Audio is not heard.	<ul style="list-style-type: none"> Check the speaker and program source connections. Check the SPEAKERS selectors.
One channel does not transmit audio, or the volume from the left and right speakers is unbalanced.	<ul style="list-style-type: none"> Adjust the BALANCE control button. Check the speaker connections.
There is an abrupt loss of sound from one or both of the speakers, and the PROTECTOR indicator flickers in the display window.	<ul style="list-style-type: none"> Turn off the receiver, and check the speaker terminals or speaker cord for a short.
Sound transmitted from the speaker is reversed.	<ul style="list-style-type: none"> Connect the speaker correctly.
Severe hum or noise is heard.	<ul style="list-style-type: none"> Use shielded connecting cords. Separate the audio components and the TV. Connect the ground wire to the ANTENNA ground terminal. Clean any dirty plugs and jacks with a cloth lightly moistened with alcohol.
The remote commander does not operate.	<ul style="list-style-type: none"> Replace the batteries with new ones.

The compound is identical
to standard and will
not affect the surface.
However, please
keep away from
children and pets.
Caution!

Sony Corporation
Audio Group

English

87G0647-1

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