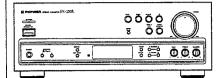
# (I) PIONEER

# Service Manual



STEREO RECEIVER

# THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by
Туре	SX-255R	SX-205	1 ower Requirement	the following method.
KUXJ	0	0	AC120V	
KCXJ	0		AC120V	
SDXJ		0	AC110V/120-127V/230V/240V	With the voltage selector
YPWXJ	0		AC240V	

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## 1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

#### NOTICE

#### (FOR CANADIAN MODEL ONLY)

Fuse symbols — (fast operating fuse) and/or — (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### REMARQUE

#### (POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

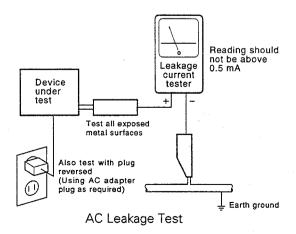
#### (FOR USA MODEL ONLY)-

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### **LEAKAGE CURRENT CHECK**

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

# 2. CHECKING FOR PCB PATTERN OF MOTHER ASSY

- 1. Remove lower set screw ① at the center of the Chassis and Rear Panel.
- 2. Cut binder ② and remove.
- 3. Remove the three screws ③ fastening the MOTHER Assy, and the two screws ④ fastening the Radiator.
- 4. Grip the Radiator and Rear Panel, and lift up about 3 cm. Then, lift up the MOTHER Assy as shown in Fig. 2 so that it can be checked.

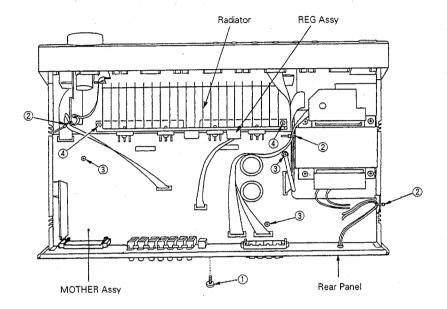


Fig. 1

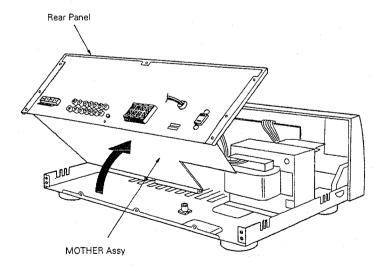


Fig. 2

# 3. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES .

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "@" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

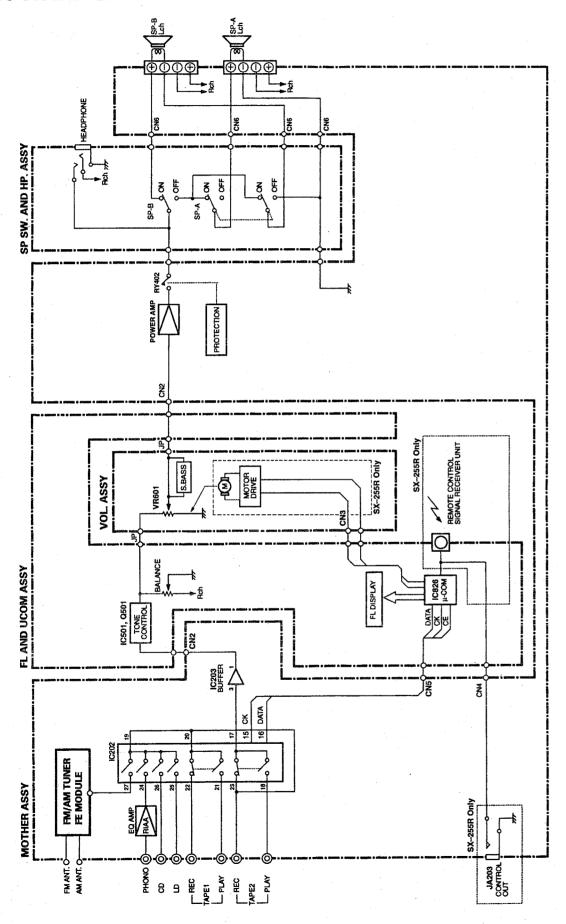
## Parts List of Exterior and Packing (For SX-255R/KUXJ)

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FL Panel	AAK7239	NSP	46	PRIMARY Assy	AWZ8369
	2	Front Panel	AMB7331	NSP	47	BARRIER Assy	AWZ8371
$\Lambda$	3	Transistor (Q1)	2SC5200		48	Screw (3×14)	ABA1194
$\overline{\wedge}$	4	Transistor (Q2)	2SC5200		49	Screw	ABA7009
<u>^</u> <u>^</u> <u>^</u>	5	Transistor (Q3)	2SA1943		50	Screw (3×8)	ABA7019
A			0044040	•	P-1		DD ZOODOO EMAC
<u>^</u>	6	Transistor (Q4)	2SA1943		51	Screw	BBZ30P200FMC
<u> </u>	7	Power Transformer (T1)	ATS7114		52	Screw	BBZ30P080FZK
<u> </u>	8	AC Power Cord	PDG1015		53	Screw	BCZ30P080FZK
4\	9	Fuse (6.3A, FU1)	REK1085		54	Screw	BPZ26P080FMC
	10	••••••			55		
<u>^</u>	11	Fuse (1A, FU3)	REK1075		56		
Æ	12	Fuse (1A, FU4)	REK1075		57	Remote Control Unit (CU-SX108)	AXD7085
NSP	13	Chassis	ANA1228	NSP	58	Battery (R6P, AA)	VEM-013
	14	Rear Panel	ANC7339		59	Loop Antenna	ATB7004
NSP	15	Radiator	ANH1458		60	FM Antenna	ADH1017
	16	Foot	AEC1505		61	Battery Cover	AZA7123
NSP	17	Binder	ZCA-BK1		62		
1431	18	PCB Support	AEC1581		63	Operating Instructions (English)	ARB7064
	19	Mica Sheet	AEE1014	NSP	64	Warranty Card	ARY1051
	20	Strain Relief	CM-22C	MOI	65	Sub Pad	AHA7051
		•			4.		\ .==-
NSP	21	Binder	RNE1277		66	Pad Side (A)	AHA7121
	22	PCB Mold	AMR2533		67	Pad Side (B)	AHA7122
	23	***************************************			68	Packing Case	AHD7265
	24	***************************************			69	Packing Sheet	AHG7026
	25	LED Lens	AAK2553				
	26	***************************************					
	27	Name Plate	PAM1608				
	28	Round Knob S	AAB7083				
	29	Round Knob L	AAB7082				
	30	Push Button	AAD7282				
	31	Power Button	AAD2531				
	32	Hinge Button A	AAD7279				
	33	Hinge Button B	AAD7280				
	34	Function Button	AAD7281				
•	35	- uncolon batton	AAD 1201				
	26	Panel Holder	A N.C.7.007				
	36		ANG7087				
	37	Bonnet Case	ANE7109				
	38	MOTHER Assy	AWZ8086				
	39	FL AND UCOM Assy	AWZ8090				
	40	SP SW. AND HP. Assy	AWZ8096				
	41	TRANS Assy	AWZ8097			•	
	42	REG Assy	AWZ8389				
	43	VOL. Assy	AWZ8092				
	44	POWER SW. Assy	AWZ8094				
		TOTAL CANA COLLECTION OF A COLUMN WAY WELL	AV01000				

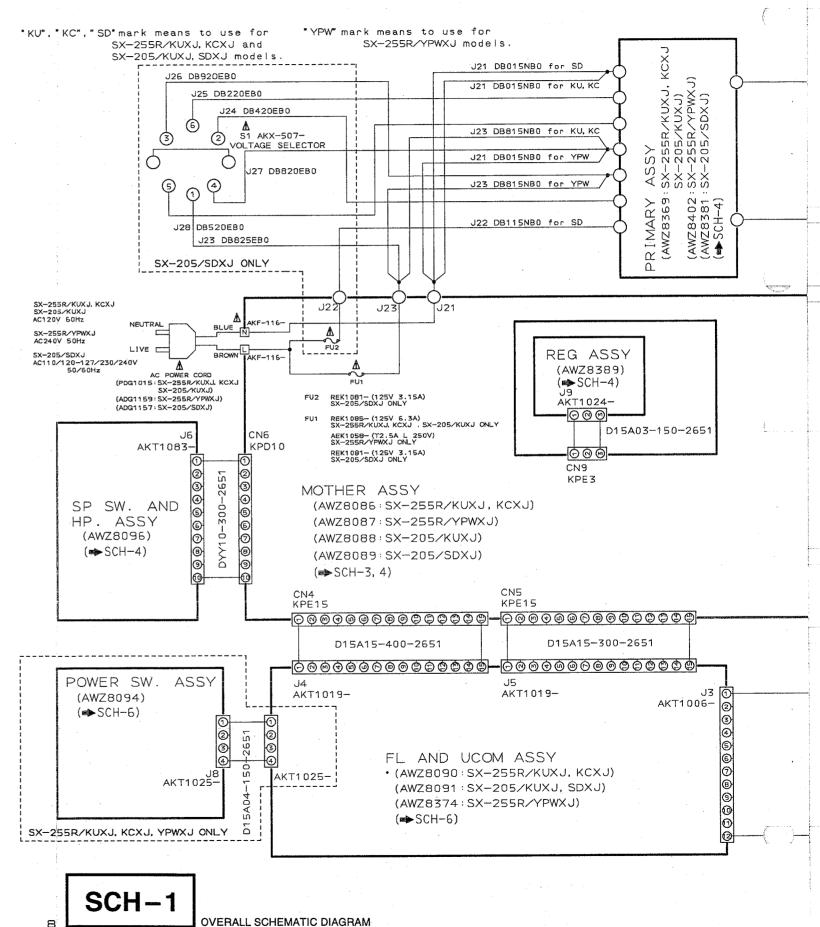
AXQ1002

FM/AM TUNER FE MODULE

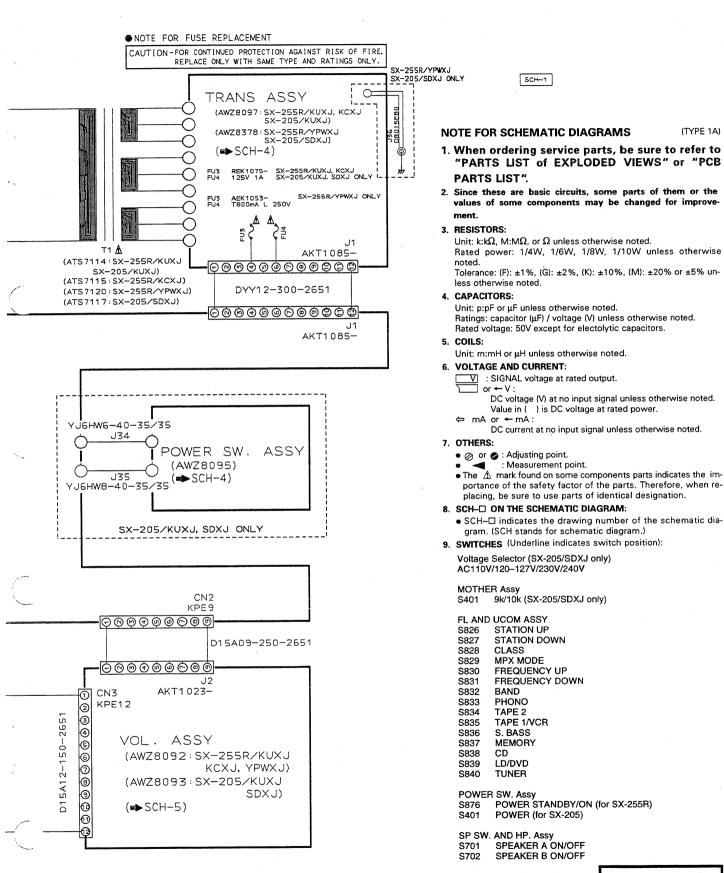
# 4. BLOCK DIAGRAM



# 5. SCHEMATIC AND PCB CONNECTION DIAGRAMS 5.1 OVERALL SCHEMATIC DIAGRAM



(TYPE 1A)

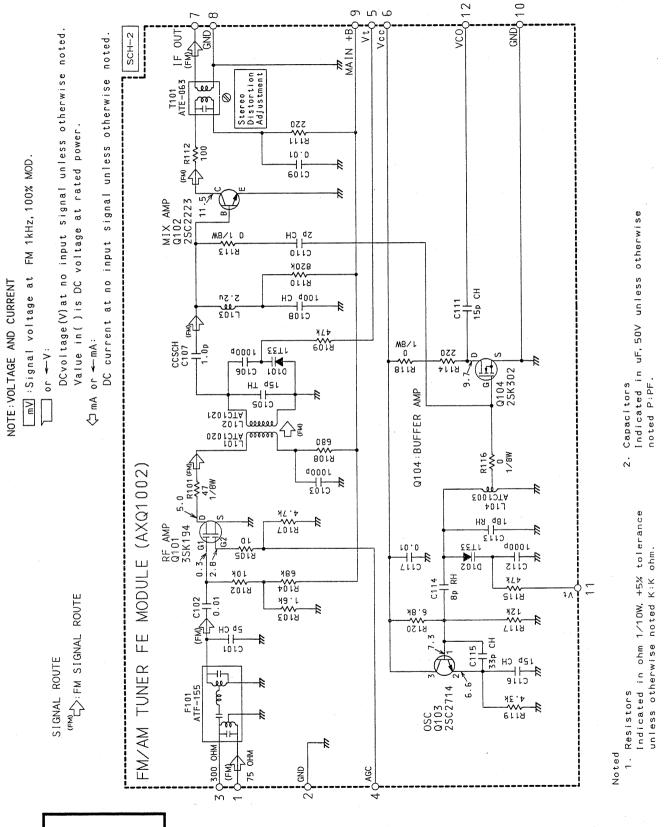


**OVERALL SCHEMATIC DIAGRAM** 

SCH-1

# 5.2 MOTHER ASSY, FM/AM TUNER FE MODULE, SP SW. AND HP. ASSY, TRANS ASSY, REG ASSY AND POWER SW. ASSY (for SX-205)

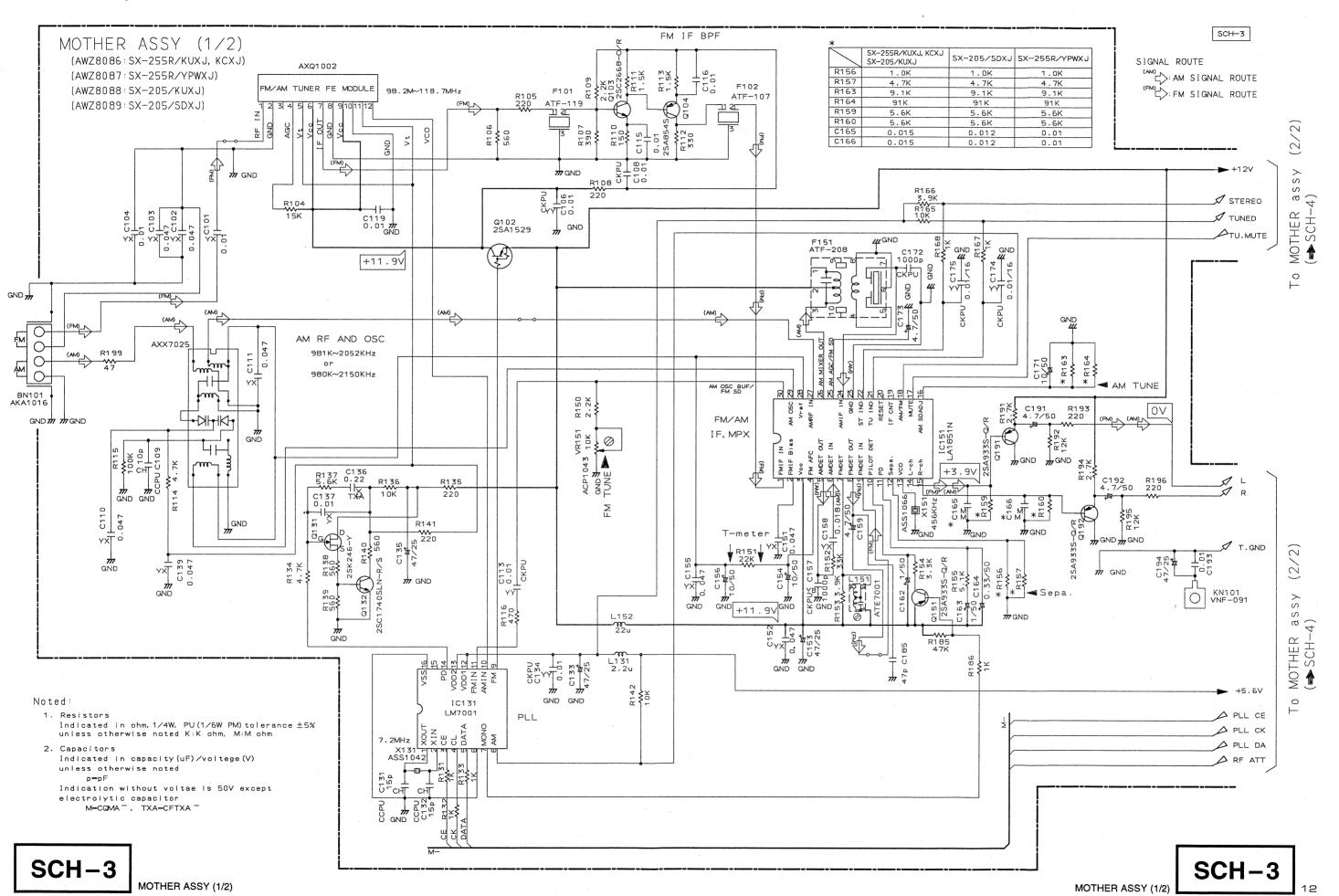
• FM/AM TUNER FE MODULE

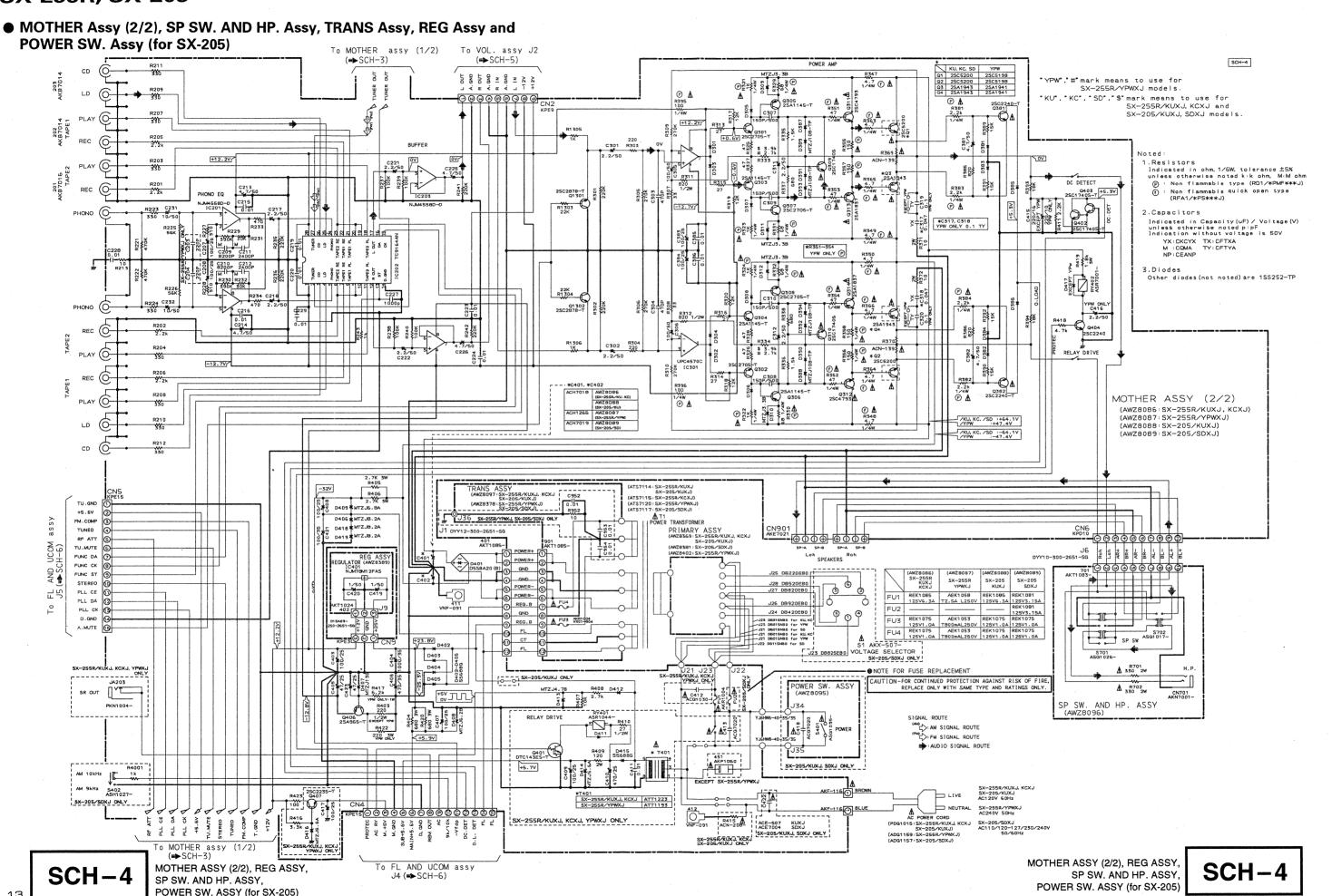


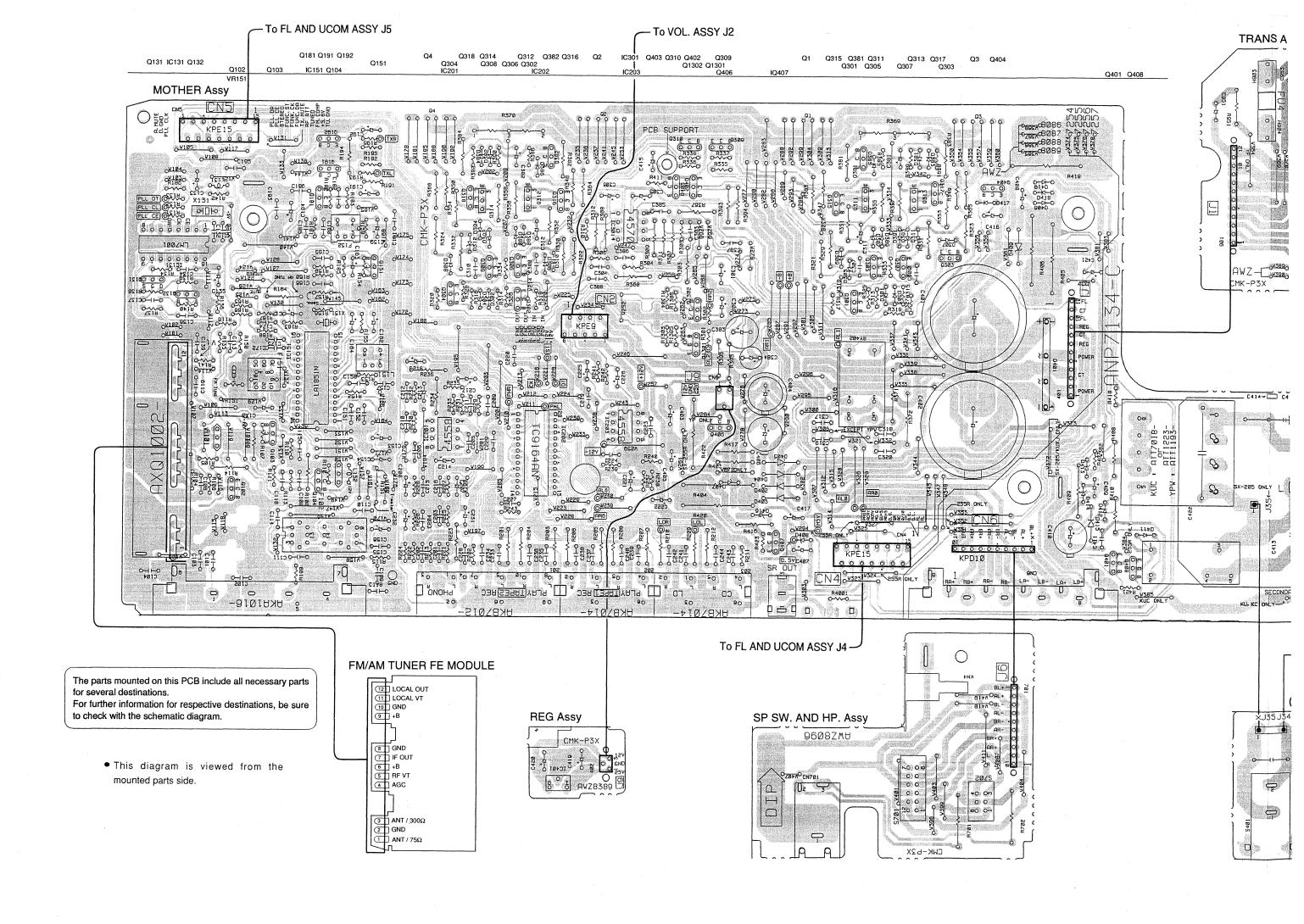
SCH-2

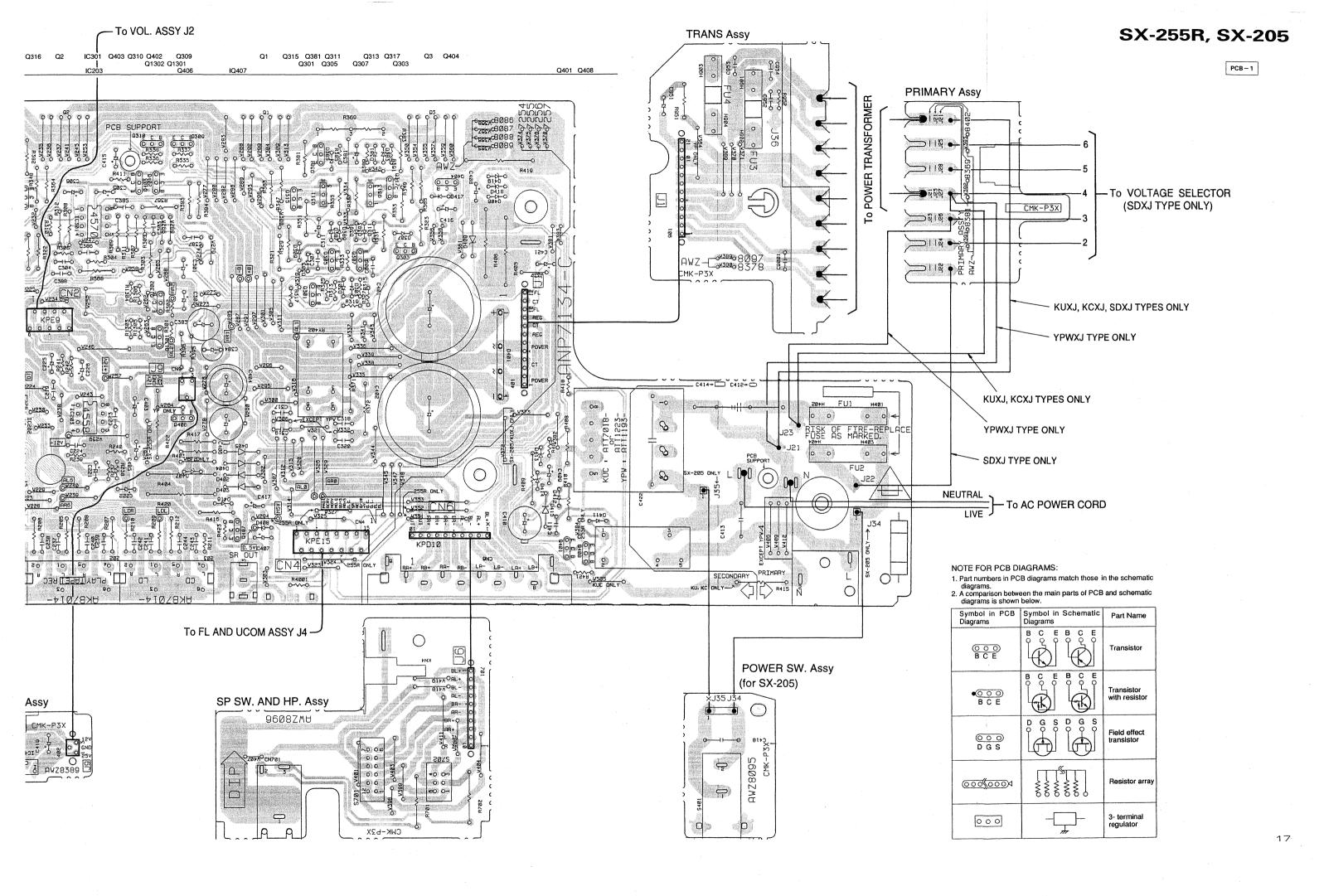
FM/AM TUNER FE MODULE

# ● MOTHER Assy (1/2)



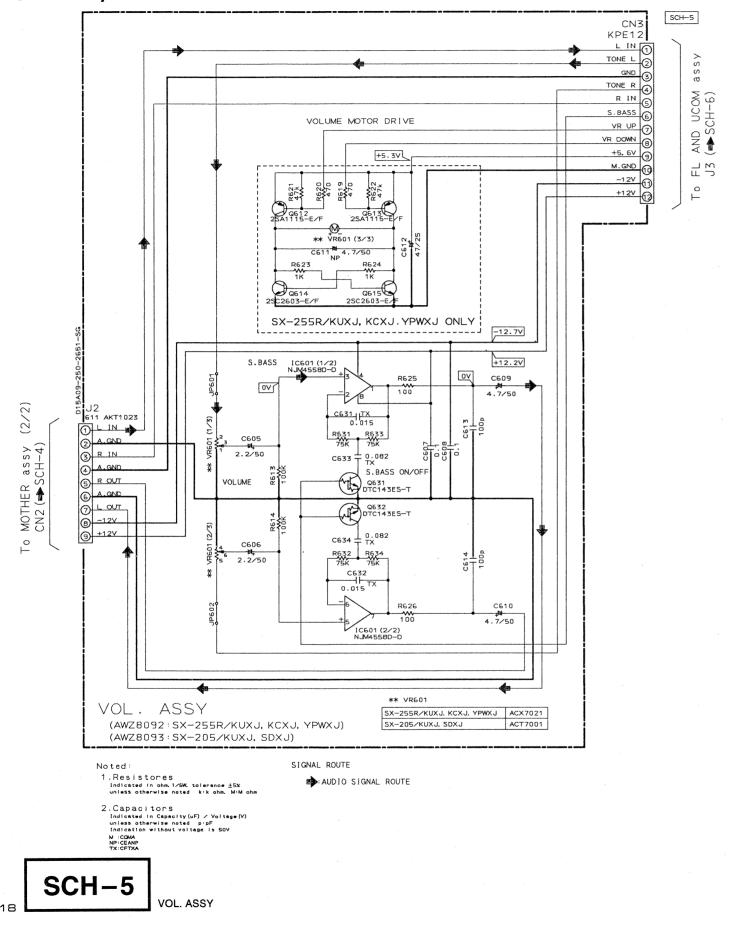






# 5.3 VOL. ASSY, FL AND UCOM ASSY AND POWER SW. ASSY (for SX-255R)

### VOL. Assy



- To MOTHER ASSY CN4 - To MOTHER ASSY CN5 FL AND UCOM Assy TUNER 5840 C842 R832 内含35 中含34 0 0--0 5832 5829 0-0-0 MPX 00 000000000 Q832 Q827

IC826 Q828

Q826

• This diagram is viewed from the

The parts mounted on this PCB include all necessary parts

For further information for respective destinations, be sure

mounted parts side.

to check with the schematic diagram.

for several destinations.

POWER SW. Assy (for SX-255R)

 $\circ$ 

AWZ8094

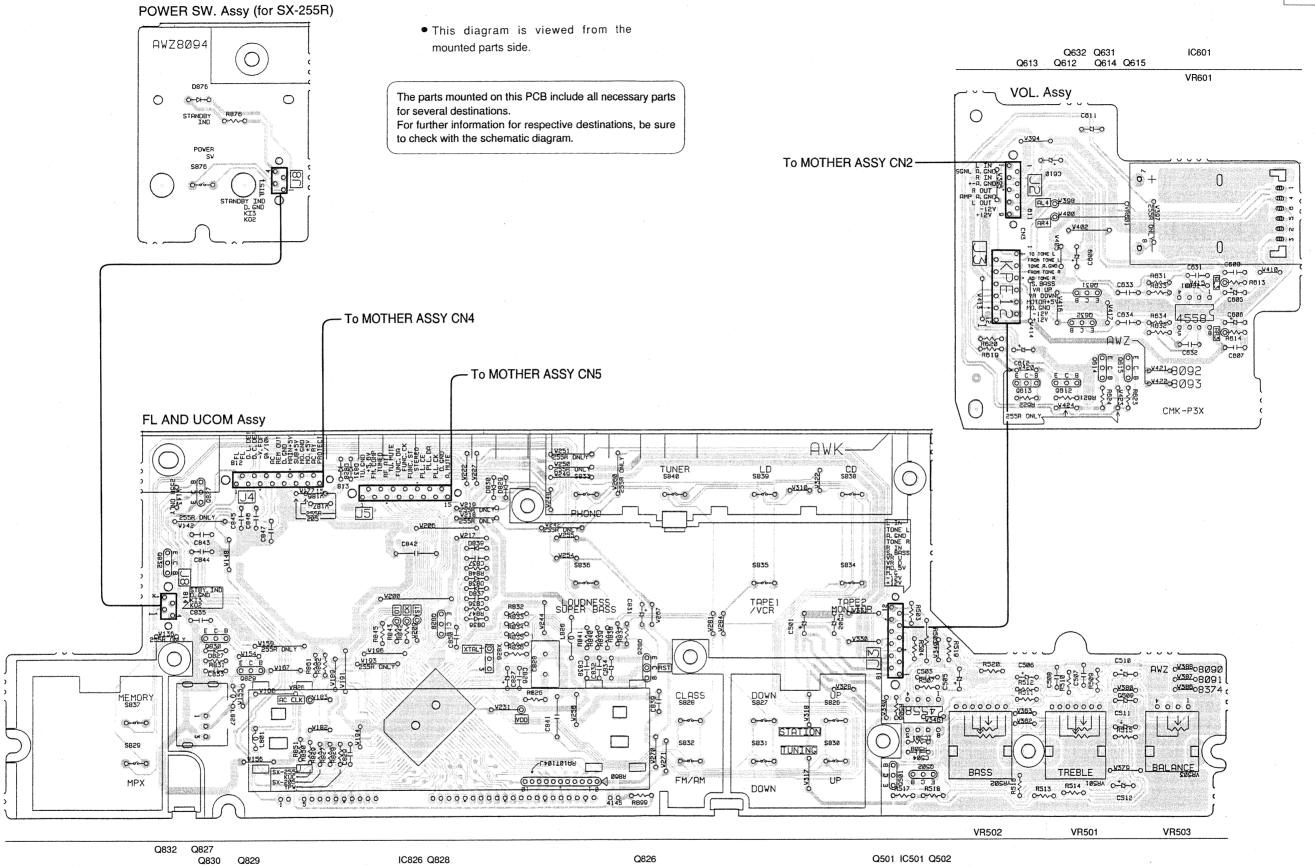
0-10-0

STANDBY R876

Q830

0

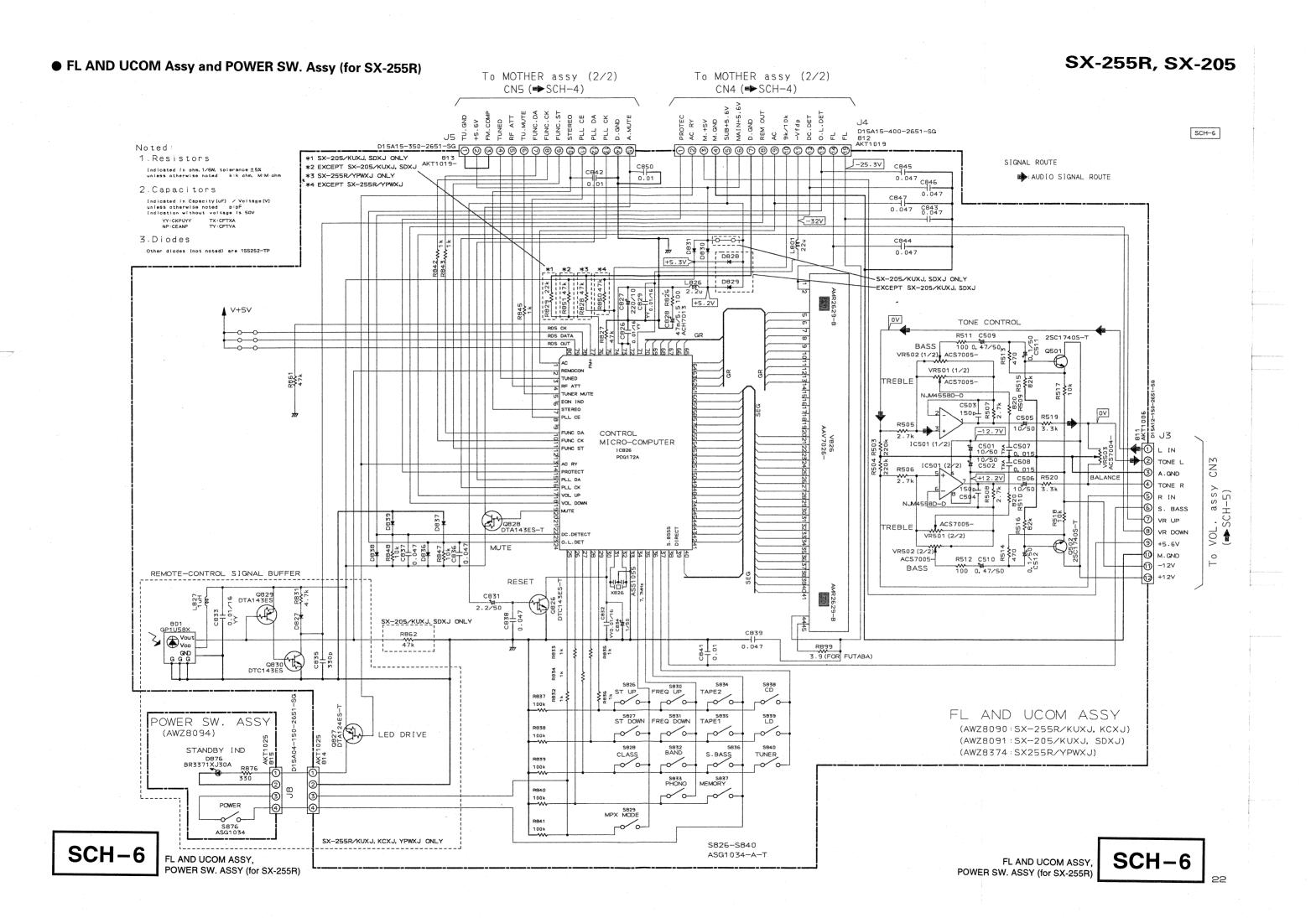
This manual downloaded from http://www.manualowl.com



R)

SCH-5

0 |-



# 6. PCB PARTS LIST

#### NOTES:

Mark No.

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

Mark No.

Description

 $560 \Omega \rightarrow 56 \times 10^{1} = 561$   $RD1/4PU \ 56 \ 1J$ 
 $47k \Omega \rightarrow 47 \times 10^{3} = 473$   $RD1/4PU \ 47 \ 3J$ 
 $0.5 \Omega \rightarrow 0R5$   $RN2H \ 0R5 K$ 
 $1 \Omega \rightarrow 1R0$   $RSIP \ 1R0 K$ 

Parts No.

# Parts List for SX-255R/KUXJ

Description

LIST	OF PCB ASS	SEMBLIES			Q401	TRANSISTOR	DTC143ES
NSP	COMPLEX AS		AWK7254		Q402, Q403	TRANSISTOR	2SC1740S
Nor			AWK1204		Q404	TRANSISTOR	2SC2240
	MOTHER		AWZ8086				2SA965
		M TUNER FE MODULE	AXQ1002 AWZ8090		Q406	TRANSISTOR	
		JCOM ASSY	AWZ8090		Q407	TRANSISTOR	2SC2235
	-VOL. ASS		AWZ8092				
	-POWER S	SW. ASSY	AWZ8094		D301-D308	DIODE	1SS252
	SP SW. A	ND HP. ASSY	AWZ8096		D309-D312	ZENER DIODE	MTZJ3.3B
	TRANS A		AWZ8097		D381-D386	DIODE	1SS252
	REG ASS		AWZ8389		D387, D388	ZENER DIODE	MTZJ10B
NSP	-PRIMARY		AWZ8369		D389-D392	DIODE	1SS252
NSP	BARRIER		AWZ8371		2000 2002	21022	
NOL	- DAIMIEN	ABBI	AWZOJII		D393, D394	ZENER DIODE	MTZJ10B
					D401	DIODE	D5SBA20(B)
					D401 D402-D405	DIODE	S5688G
COM	PLEX ASSY						
					D406	ZENER DIODE	MTZJ8.2A
OTHE	RS				D407	ZENER DIODE	MTZJ13B
	J21	LEAD WIRE UNIT	DB015NBO				
	J23	LEAD WIRE UNIT	DB815NBO		D408	ZENER DIODE	MTZJ6.2B
	0.20				D409	ZENER DIODE	MTZJ6.8A
					D411, D412	DIODE	1SS252
RAOT	HER ASSY				D413	ZENER DIODE	MTZJ4.7B
IVIUI	HEN ASS I				D414	ZENER DIODE	MTZJ5.6A
SEMI	CONDUCTOR	IS			Dili	ZEIVEIV BIODE	1111200.011
	IC131	PLL IC	LM7001J		D415	DIODE	S5688G
	IC151	AM/FM IC	LA1851N		D416	ZENER DIODE	MTZJ5.6A
	IC201	OP-AMP IC	NJM4558D-D		D417	DIODE	1SS252
	IC202	E-SW IC	TC9164AN		D418, D419	ZINER DIODE	MTZJ8.2A
	IC202	OP-AMP IC	NJM4558D-D		D410, D419	ZINER DIODE	W11200.2A
	10200	OI-MIII IO	110M14000D-D	DE: A	V0		
	IC301	IC	UPC4570C	RELA			
	10301	10	01 040700		RY401	RELAY	ASR1044
	0400	mp (3) aratamo p	0014500		RY402	RELAY	ASR7001
	Q102	TRANSISTOR	2SA1529				
	Q103	TRANSISTOR	2SC2668	0011	S AND FILTE	:DC	
	Q104	TRANSISTOR	2SA854S	COIL			
	Q1301, Q1302	TRANSISTOR	2SC2878		F101	CERAMIC FILTER	ATF-119
	Q131	N-FET	2SK246		F102	CERAMIC FILTER	ATF-107
	•				F151	CERAMIC FILTER	ATF-208
	Q132	TRANSISTOR	2SC1740SLN		L131	AXIAL INDUCTOR	LAU2R2J
	Q151	TRANSISTOR	2SA933S		L151	COIL	ATE7001
		TRANSISTOR	2SA933S		-101		
	Q191, Q192				L152	AXIAL INDUCTOR	LAU220J
	Q301, Q302	TRANSISTOR	2SC2705		L192	AXIAL INDUCTOR	LAU2200
	Q303-Q306	TRANSISTOR	2SA1145				
		mp / Maramo p	000000	TŖAN	ISFORMER		
Δ	Q307, Q308	TRANSISTOR	2SC2705	4	T401	POWER TRANSFORMER	ATT1223
<u> </u>	Q309, Q310	TRANSISTOR	2SC1740S				
	Q311, Q312	TRANSISTOR	2SC4793	CADA	CITORS		
<u> </u>	Q313, Q314	TRANSISTOR	2SA1837	CAPA			
	Q381, Q382	TRANSISTOR	2SC2240		C101	CERAMIC CAPACITOR	CGCYX103M16
	··, ··	<del> </del>			C102, C103	CERAMIC CAPACITOR	CGCYX473M16
					C104	CERAMIC CAPACITOR	CGCYX103M16
					C106, C108	CERAMIC CAPACITOR	CKPUYY103M16
					C109	CERAMIC CAPACITOR	CCPUCH100J50

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C110, C111	CERAMIC CAPACITOR	CGCYX473M16		C412	CAPA. (0.022 μ F/AC400V)	ACG1030
	C113	CERAMIC CAPACITOR	CKPUYY103M16		C413	CAPA. (0.01 µ F/AC250V)	ACG7020
	C115, C116	CERAMIC CAPACITOR	CGCYX103M16		C415	ELECT. CAPACITOR	CEAS221M16
	C119	CERAMIC CAPACITOR	CGCYX103M16		C417	ELECT. CAPACITOR	CEAS101M25
	C131, C132	CERAMIC CAPACITOR	CCPUCH150J50		C421	ELECT. CAPACITOR	CEAS101M35
	C133	ELECT. CAPACITOR	CEAS470M25		C423	ELECT. CAPACITOR	CEAS470M25
	C134	CERAMIC CAPACITOR	CKPUYY103M16				
	C135	ELECT. CAPACITOR	CEAS470M25	RESI	STORS		
	C136	AUDIO FILM CAPACITOR	CFTXA224J50		VR151	VR ( 10k Ω, 0.1W )	ACP1043
	C137	CERAMIC CAPACITOR	CGCYX103M16		R311, R312	CARBON FILM RESISTOR	
				<u>/</u> !\	R321-R324	CARBON FILM RESISTOR	
	C139	CERAMIC CAPACITOR	CGCYX473M16	<u>^</u>	R329-R332	CARBON FILM RESISTOR	
	C151, C152	CERAMIC CAPACITOR	CGCYX473M16	<u></u>	R347-R350	FUSIBLE RESISTOR	RFA1/4PS4R7J
	C153	ELECT. CAPACITOR	CEAS470M25				
	C154	ELECT. CAPACITOR	CEAS100M50	<u> </u>	R351-R354	FUSIBLE RESISTOR	RFA1/4PS470J
	C155	CERAMIC CAPACITOR	CGCYX473M16	<u> </u>	R355-R358	CARBON FILM RESISTOR	
	~	TITOM CLELOTHOR	0710-0-1	<u>^</u>	R363-R366	FUSIBLE RESISTOR	RFA1/4PS4R7J
	C156	ELECT. CAPACITOR	CEAS100M50	1	R369, R370	RESISTOR (0.33 Ω, 5W)	ACN-139
	C157	CERAMIC CAPACITOR	CKPUYB102K50		R371, R372	METAL OXIDE RESISTOR	
	C158	CERAMIC CAPACITOR	CGCYX183M25		,		
	C159	ELECT. CAPACITOR	CEAS4R7M50	A	R381-R384	CARBON FILM RESISTOR	RD1/4PMF222J
	C162, C163	ELECT. CAPACITOR	CEAS010M50	<u>^</u>	R395, R396	CARBON FILM RESISTOR	RD1/4PMF101J
	~~.	TI TOT GIPLOTTO	GT   GT 003 570		R403	CARBON FILM RESISTOR	RD1/2PM221J
	C164	ELECT. CAPACITOR	CEASR33M50		R404	METAL OXIDE RESISTOR	
	C165, C166	AUDIO FILM CAPACITOR	CFTXA153J50		R405, R406	METAL OXIDE RESISTOR	
	C171	ELECT. CAPACITOR	CEAS100M50		,		
	C172	CERAMIC CAPACITOR	CKPUYB102K50		R409	METAL OXIDE RESISTOR	RS2LMF121J
	C173	ELECT. CAPACITOR	CEAS4R7M50		R410	CARBON FILM RESISTOR	RD1/2PM270J
	01 m / 01 mr	CER LIGG GLR LOTTOR	OTT. T. T. C.		R415	RESISTOR(2.2M $\Omega$ , 1/2W)	ACN-208
	C174, C175	CERAMIC CAPACITOR	CKPUYY103M16		R419	METAL OXIDE RESISTOR	RS3LMF182J
	C185	CERAMIC CAPACITOR	CCCSL470J50		R420	METAL OXIDE RESISTOR	RS3LMF681J
	C191, C192	ELECT. CAPACITOR	CEAS4R7M50			Other Resistors	RD1/4PU□□□J
	C193	CERAMIC CAPACITOR	CGCYX103M16				
	C194	ELECT. CAPACITOR	CEAS470M25	OTHE	-BS		
	G007 G000	DI DOM GADAGIMOD	GT 1 G1013 F0F	01111	_110	AM RF TUNING BLOCK	AXX7025
	C207, C208	ELECT. CAPACITOR	CEAS101M25			EARTH METAL PLATE	VNF-091
	C209, C210	PLASTIC FILM CAPACITO					AKB7012
	C211, C212	PLASTIC FILM CAPACITO				PIN JACK (6P)	
	C213, C214	ELECT. CAPACITOR	CEAS4R7M50			PIN JACK (4P)	AKB7014
	C215, C216	CERAMIC CAPACITOR	CKCYF103Z50			CABLE HOLDER (12P)	AKT1085
	C217, C218	DI DOT CADACITOD	CEAS2R2M50			AC SOCKET 1-P	AKP1060
	C217, C218	ELECT. CAPACITOR			BN101	TERMINAL 4-P	AKA1016
		CERAMIC CAPACITOR	CKCYF103Z50 CEAS2R2M50		CN2	CONNECTOR (9P)	KPE9
	C221, C222 C223, C224	ELECT. CAPACITOR	CKCYF103Z50		CN4, CN5	CONNECTOR (15P)	KPE15
		CERAMIC CAPACITOR			CN9	CONNECTOR (3P)	KPE3
	C225, C226	ELECT. CAPACITOR	CEAS4R7M50		0113	CONTRECTOR (SI)	111 110
	C227	CERAMIC CAPACITOR	CKCYB102K50		CN901	SPEAKER TERMINAL 8-P	AKE7021
	C228, C229	CERAMIC CAPACITOR	CKCYF103Z50		JA203	JACK/12V	PKN1004
	C231, C232	ELECT. CAPACITOR	CEAS100M50		X131	CRYSTAL RESONATOR	ASS1042
	C301, C302	ELECT. CAPACITOR	CEAS2R2M50		X151	CRYSTAL RESONATOR	ASS1066
	C303, C304	CERAMIC CAPACITOR	CKCYB471K50			FM/AM TUNER FE	AXQ1002
	0000, 0001		01101111111100			MODULE	•
	C305, C306	ELECT. CAPACITOR	CEAS101M50				
	C307-C310	CERAMIC CAPACITOR	CCCSL151K500		Note: FM / AM	I TUNER FE MODULE has no	service part.
	C311, C312	ELECT. CAPACITOR	CEAS2R2M50				•
	C317, C318	AUDIO FILM CAPACITOR	CFTXA473J50				
	C381, C382	ELECT. CAPACITOR	CEAS4R7M50	EI A	ND UCOM	VSSV	
	0002, 0002						
	C383, C384	ELECT. CAPACITOR	CEAS101M25	SEMI	ICONDUCTO	RS	
	C385, C386	CERAMIC CAPACITOR	CKCYF103Z50		IC501	OP-AMP IC	NJM4558D-D
	C401, C402	ELECT. CAPACITOR	ACH7018		IC826	CONTROL MCU	PDG172A
	, –	( 8200 μ F/DC71V)					
	C403	ELECT. CAPACITOR	CEAS101M25		Q501, Q502	TRANSISTOR	2SC1740S
	C404	ELECT. CAPACITOR	CEAS102M35		Q826	TRANSISTOR	DTC143ES
					Q827	TRANSISTOR	DTA124ES
	C405	ELECT. CAPACITOR	CEAS470M25		Q828, Q829	TRANSISTOR	DTA143ES
	C406	ELECT. CAPACITOR	CEAS471M35		Q830	TRANSISTOR	DTC143ES
	C407-C409	ELECT. CAPACITOR	CEAS101M25		•	•	
	C410	ELECT. CAPACITOR	CEAS471M25		D827-D831	DIODE	1SS252
	C411	CERAMIC CAPACITOR	CKCYF103Z50		D836-D839	DIODE	1SS252
				SWIT	CHES AND F	RELAYS	
				J	S826-S840	SWITCH	ASG1034
					D020-D040	2 1111011	**************************************

Parts No.

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
COLS	AND FILTER	RS		POW	ER SW. AS	sy	
COILC		AXIAL INDUCTOR	LAU220J	SEMI	CONDUCTO	<b>-</b>	
		AXIAL INDUCTOR AXIAL INDUCTOR	LAU2R2J LAU010J		D876	RED LED	BR3371XJ30A
				SWIT	CH		
CAPA	CITORS		CTD A CHOOMED		S876	SWITCH	ASG1034
	C501, C502 C503, C504	ELECT. CAPACITOR CERAMIC CAPACITOR	CEAS100M50 CKPUYB151K50				
	C505, C504	ELECT. CAPACITOR	CEAS100M50	RESI	STOR	CARBON FILM RESISTOR	RD1/4PU331J
	C507, C508 C509, C510	AUDIO FILM CAPACITOR ELECT. CAPACITOR	CFTXA153J50 CEASR47M50		R876	CARDON FILM RESISTOR	10013
	OF11 CE10	ELECT, CAPACITOR	CEASOR1M50	SD S	W. AND HP	ASSY	
	C511, C512 C826	CERAMIC CAPACITOR	CKPUYY103M16		CHES		
	C827	ELECT, CAPACITOR	CEAS221M10	SAAFI	S701	PUSH SWITCH	ASG1026
	C828	CAPACITOR (47mF/DC5.5V	CKPUYY103M16		S702	PUSH SWITCH	ASG1017
	C829	CERAMIC CAPACITOR	CKFUIIIOMIO		2		
	C831	ELECT. CAPACITOR	CEAS2R2M50	RESI	STORS		·
	C832, C833	CERAMIC CAPACITOR	CKPUYY103M16		R701, R702	METAL OXIDE RESISTOR	RS2LMF331J
	C834	ELECT. CAPACITOR	CEAS010M50 CKCYB331K50				
	C835 C836–C838	CERAMIC CAPACITOR CERAMIC CAPACITOR	CGCYX473M16	OTH		T. CTT	AKN7001
	C030-C030	CERCUITO OTHER COLUMN			CN701	JACK	AMINIOUI
•	C839	CERAMIC CAPACITOR	CKPUYF473Z50				
	C841, C842	CERAMIC CAPACITOR	CKPUYY103M16 CKCYF103Z50	TDA	NS ASSY		
	C843, C844 C845–C847	CERAMIC CAPACITOR CERAMIC CAPACITOR	CGCYX473M16				
	C850	CERAMIC CAPACITOR	CKPUYY103M16	OTH	ERS	CABLE HOLDER (12P)	AKT1085
	3334					CABLE HOLDER (121)	111111000
RESI	STORS						
		VARIABLE RESISTOR	ACS7005	REC	ASSY		
	VR503	VARIABLE(500kΩ)	ACS7004 RD1/4PU□□□J		IICONDUCTO	<b>D</b>	
		Other Resistors	MDD41 OLLLIO	SEIV	IC401	REGULATOR IC	NJM78M12FA
отн	FBS				10401		
<b>O</b>	2.10	REMOTE RECEIVER UNIT		CAP	ACITORS		
	V826	FL TUBE	AAV7026		C419, C420	ELECT. CAPACITOR	CEAS010M50
	X826	CERAMIC RESONATOR	ASS1055				
		(7.7MHz)					
					MARY ASS		
VOI	ASSY			PRIM	MARY Assy has	no service part.	
	IICONDUCTO	NDC					
SEIV	IC601	OP-AMP IC	NJM4558D-D	DΛI	RRIER ASS	, ·	
	Q612, Q613	TRANSISTOR	2SA1115		RIER Assy has		
	Q614, Q615	TRANSISTOR	2SC2603	DAN	MICH ASSY HAS	no service par u	
	Q631, Q632	TRANSISTOR	DTC143ES				
O 4 5	A CITODO						
CAF	PACITORS	ELECT. CAPACITOR	CEAS2R2M50				
	C605, C606 C607, C608	CERAMIC CAPACITOR	CGCYX104M16				
	C609, C610	ELECT. CAPACITOR	CEAS4R7M50				
	C611	ELECT. CAPACITOR	CEANP4R7M50				
	C612	ELECT. CAPACITOR	CEAS470M25				
	C631, C632	AUDIO FILM CAPACITOR	CFTXA153J50	•			
	C633, C634	AUDIO FILM CAPACITOR					
RES	SISTORS		1 CTT TO O 2				•
	VR601	VARIABLE RESISTOR	ACX7021				
		$(100k-A5\times2\Omega)$ Other Resistors	RD1/4PU□□□J				
		Oniei mesisonis					
OTI	HERS						
011		CABLE HOLDER	AKT1023				
	CN3	CONNECTOR (12P)	KPE12				

# 7. ADJUSTMENTS ADJUSTMENT OF FM TUNER SECTION

- Set the FM/AM selector to FM BAND.
- Connect the wiring as shown in Fig. 1-1.

		FM SG (1kHz, ±75kHz dev.)		Reception			
Step No.	Adjustment Title	Frequency (MHz)	Level (dBμV)	Frequency Display	Adjustment Location	Specifications	
1	Center Adjustment	98	60	98.0 MHz	L151	Adjust so that the DC voltage of R151's both end becomes 0V±50mV.  R151  V = 0V±50mV	
2	Front End Sencitivity Check	98	Less than 10	98.0 MHz		Less than 10 dB $\mu$ V	
3	Stereo Distortion Check	89	60	89.0 MHz	T101	Less than 2%. Check that it becomes within the standard by turning the IFT T101 in the FM/AM TUNER MODULE less than ±90° in case out of standard.	
4	Stereo Separation Check	89	60	89.0 MHz		Less than 23 dB. In case out of standard, cut the R157.	
5	TUNED IND. Lighting Level	98	18 (±3 dB)	98.0 MHz	VR151	18 dB $\mu$ V $\pm$ 3 dB.  Adjust so that the indicator of TUNED IND. starts to light up.	

Note: Make indicator adjustments in order of AM  $\rightarrow$  FM.

# ADJUSTMENT OF AM (MW) TUNER SECTION

- Set the FM/AM selector to AM (MW) BAND.
- Connect the wiring as shown in Fig. 1-1.

	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception			
Step No.		Frequency (kHz)	Level (dBμV/m)	Frequency Display	Adjustment Location	Specifications	
1	TUNED IND. Lighting Level Check	999*1	Less than 65	999kHz*1		Less than $65 dB \mu V/m$ . In case out of standard, cut the R164.	

<sup>\*1 :</sup> For the area using 10 kHz step, frequencies should be 1000 kHz.

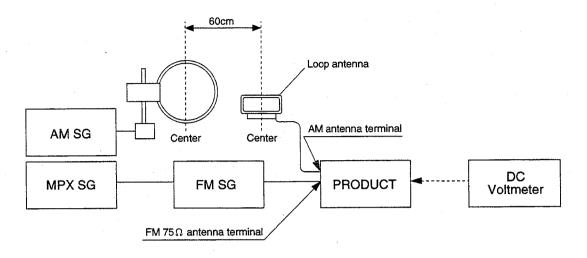


Fig. 1-1 FM and AM Adjustment Wiring Diagram

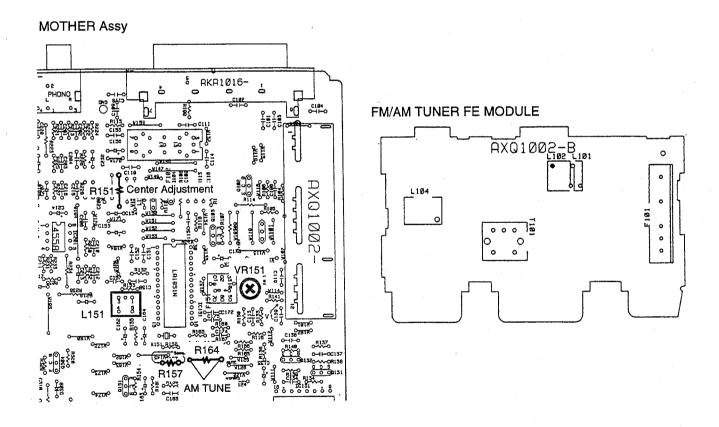


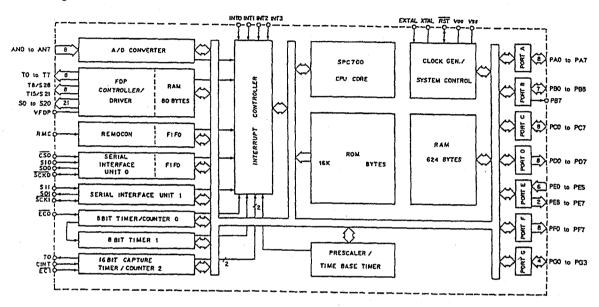
Fig. 1-2 Adjustment Points

# 8. IC INFORMATION

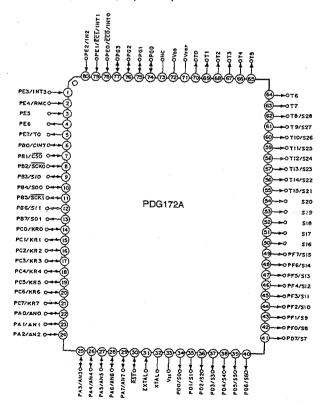
• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

# PDG172A (IC826: FL AND UCOM ASSY)

- Receiver Control Micro-computer
- Block Diagram



### Pin Assignment (Top view)



#### Pin Function

No.	Pin Name	I\0	Description
1	PE3/INT3	I	External interrupt request input terminal
2	PE4/RMC	I	Remote control reception circuit input terminal
3	PE5	I	
4	PE6	0	
5	PE7/TO	0	16 bit timer/counter rectangular wave output terminal
6	PB0/CINT	1/0	External capture input terminal to the 16- bit timer/counter
7	PB1/CS0	Ю	Serial interface (CH 0) chip select input terminal
8	PB2/SCK0	1/0	Serial clock (CH 0) I/O terminal
9	PB3/SI0	I	Serial data (CH 0) input terminal
10	PB4/SO0	0	Serial data (CH 0) output terminal
11	PB5/SCK1	1/0	Serial clock (CH 1) I/O terminal
12	PB6/SI1	I	Serial data (CH 1) input terminal
13	PB7/SO1	0	Serial data (CH 1) output terminal

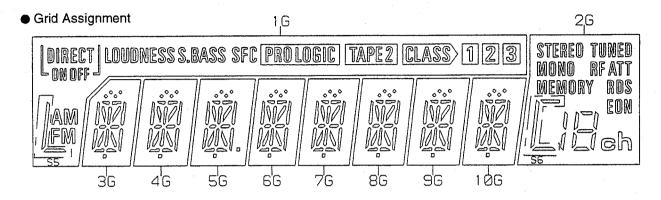
No.	Pin Name	ΙΟ	Description
14	PC0/KR0	I	Key return input terminal for key scan by FDP segment signal
21	PC7/KR7	1	The segment signar
22	PAO/ANO		
29	 PA7/AN7	I	A/D converter analog input terminal
30	RST	I/O	"L" level active system reset terminal.
	1451		The RST terminals are I/O terminals, and
			at the time of power supply start-up, the built-in power ON reset function operates
			and executes " L " level output. (Mask option)
31	EXTAL	I	System clock oscillstion crystal connection
32	XTAL	0	terminal. For external clock supply, execute input to the EXTAL terminal and supply
32	AIAU		input of a reverse-phase clock signal to the
			XTAL terminal.
33	Vss		GND terminal
34	PD0/S0		
41	PD7/S7		
42	PF0/S8		
49	 PF7/S15	0	FDP segment signal output terminal
50	S16		
54	 S20		
55	T15/S21	О	Combined output terminal for FDP timing signal and segment signal
62	T8/S28		
63	<b>T</b> 7	o	FDP timing signal output terminal
70	To		
71	VFDP		FDP voltage supply signal when internal
			resistance has been specified by the mask option.
72	VDD	-	Positive power supply terminal
73	NC		NC terminal Connect this terminal to VDD for normal operation.
74	PG0	1/0	
77	PG3	ľО	

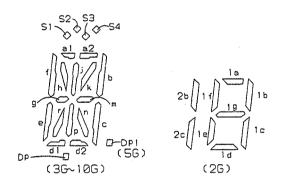
No.	Pin Name	I/O	Description	
78	PE0/INTO/EC0	I	External interrupt request input termina	
79	PE1/INT1/EC1		Timer/counter external event input terminal	
80	PE2/INT2	I	External interrupt request input terminal	

# 9. FL INFORMATION

# AAV7026 (V826: FL AND UCOM ASSY)

## FL Tube

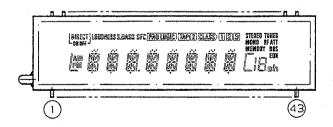




#### Anode Connection

	16	2G	36,46,66~106	5G
S1	<b>S</b> 5	S6	al	al
<b>S</b> 2	FM	2b,2c	a2	<b>a</b> 2
S3	AM	la	h	h
S4	DIRECT	16	j	j
\$5	NO	1c	k	k
S6	. OFF	1 d	ъ	ь
57	PROLOGIC	1e	, f	f
S8	SFC	1 f	m	m
S9	LOUDNESS	19	9	9
S10	S.BASS	ch	. с	с
SII	TAPE 2	STEREO	e	е
S12	CLASS	TUMED	r	r
S13	1	MONO	р	p
S14	2	RF ATT	n	n
S15	3	MEMORY	αI	d l
S16	_	RDS	d2	d2
S17	- ·	EON	DP	. DP
S18	-	-	S1,S3	S1,S3
S19	-	-	<b>S</b> 4	S4
520	~	-	S2	S2
521	_		_	Do 1

#### Pin Assignment



#### Pin Connection

PIN NO.		23
CONNECTION		NF X2

NOTE

- NP ----- No pin
  NX ----- No extend pin
  DL ----- Datum Line
  1G~10G --- Grid

# 10. FOR SX-255R/KCXJ, YPWXJ, SX-205/KUXJ AND SDXJ

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- ullet The ullet mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

 $0.5 \Omega \rightarrow 0R5$  RV2H UNG K  $1 \Omega \rightarrow 1R0$  RSIP I RO K

# CONTRAST OF MISCELLANEOUS PARTS

SX-255R/KCXJ, YPWXJ, SX-205/KUXJ, SDXJ and SX-255R/KUXJ have the same construction except for the following:

			Part No.					
Mark	No.	Symbol & Description	SX-255R/ KUXJ	SX-255R/ KCXJ	SX-255R/ YPWXJ	SX-205/ KUXJ	SX-205/ SDXJ	Remarks
NSP		COMPLEX Assy	AWK7254	AWK7254	AWK7255	AWK7256	AWK7257	
Nor	38	MOTHER Assy	AWZ8086	AWZ8086	AWZ8087	AWZ8088	AWZ8089	
	39	FL AND UCOM Assy	AWZ8090	AWZ8090	AWZ8374	AWZ8091	AWZ8091	
	43	VOL. Assy	AWZ8092	AWZ8092	AWZ8092	AWZ8093	AWZ8093	
	44	POWER SW. Assy	AWZ8094	AWZ8094	AWZ8094	AWZ8095	AWZ8095	
	41	TRANS Assy	AWZ8097	AWZ8097	AWZ8378	AWZ8097	AWZ8378	
NSP	46	PRIMARY Assy	AWZ8369	AWZ8369	AWZ8402	AWZ8369	AWZ8381	*1
NSP	47	BARRIER Assy	AWZ8371	AWZ8371	Not Used	AWZ8371	Not Used	
Æ	5, 6	Q3, Q4 Transistor	2SA1943	2SA1943	2SA1941	2SA1943	2SA1943	
<u>↑</u>	3, 4	Q1, Q2 Transistor	2SC5200	2SC5200	2SC5198	2SC5200	2SC5200	
<u> </u>	7	T1 Power Transformer (AC120V)	ATS7114	ATS7115	Not Used	ATS7114	Not Used	
<u>~</u>	7	T1 Power Transformer (AC240V)	Not Used	Not Used	ATS7120	Not Used	Not Used	
<u>^.</u>	7	T1 Power Transformer	Not Used	Not Used	Not Used	Not Used	ATS7117	
4.3	'	(AC110V/120-127V/230V/240V)						
$\Lambda$	11, 12	FU3, FU4 Fuse (1A)	REK1075	REK1075	Not Used	REK1075	REK1075	
$\overline{\wedge}$	11, 12	FU3, FU4 Fuse (T800mA)	Not Used	Not Used	AEK1053	Not Used	Not Used	
$\overline{\wedge}$	9	FU1 Fuse (6.3A)	REK1085	REK1085	Not Used	REK1085	Not Used	
$\overline{\wedge}$	9	FU1 Fuse (T2.5A)	Not Used	Not Used	AEK1058	Not Used	Not Used	
$\overline{\mathbb{A}}$	9, 10	FU1. FU2 Fuse (3.15A)	Not Used	Not Used	Not Used	Not Used	REK1081	
$\overline{\Lambda}$	23	Voltage Selector	Not Used	Not Used	Not Used	Not Used	AKX-507	
	8	AC Power Cord	PDG1015	PDG1015	ADG1159	PDG1015	ADG1157	
	2	Front Panel	AMB7331	AMB7331	AMB7339	AMB7333	AMB7333	
	14	Rear Panel	ANC7339	ANC7386	ANC7342	ANC7340	ANC7344	1 .
	16	Foot	AEC1505	AEC1505	Not Used	AEC1505	AEC1505	
	26	Insulator Assy	Not Used	Not Used	DXA1490	Not Used	Not Used	1
	56	Insulator	Not Used	Not Used	PNW1912	Not Used	Not Used	
	20	Strain Relief	CM-22C	CM-22C	CM-22B	CM-22C	CM-22B	
	25	LED Lens	AAK2553	AAK2553	AAK2553	Not Used	Not Used	
	1	FL Panel	AAK7239	AAK7239	AAK7239	AAK7241	AAK7241	
	55	Nut	Not Used	Not Used	Not Used	NK90FUC	NK90FUC	
	35	Spring	Not Used	Not Used	Not Used	ABH7111	ABH7111	

			Part No.					
Mark	No.	Symbol & Description	SX-255R/ KUXJ	SX-255R/ KCXJ	SX-255R/ YPWXJ	SX-205/ KUXJ	SX-205/ SDXJ	Remarks
	68	Packing Case	AHD7265	AHD7265	AHD7269	AHD7267	AHD7271	
	57	Remote Control Unit (CU-SX108)	AXD7085	AXD7085	AXD7085	Not Used	Not Used	
	61	Battery Cover	AZA7123	AZA7123	AZA7123	Not Used	Not Used	
NSP	58	Battery (R6P, AA)	VEM-013	VEM-013	VEM-013	Not Used	Not Used	
	63	Operating Instructions (English)	ARB7064	ARB7064	ARB7067	ARB7064	ARB7064	
		Operating Instructions (French)	Not Used	ARC7102	Not Used	Not Used	Not Used	
		Operating Instructions (Spanish/Chinese)	Not Used	Not Used	Not Used	Not Used	ARC7103	
NSP	64	Warranty Card	ARY1051	ARY1075	PRY1003	ARY1051	Not Used	
	62	Caution 220V Label	Not Used	Not Used	Not Used	Not Used	ARR1003	

Notes \*1: AWZ8369 and AWZ8402 has no service part. For AWZ8381, refer to " PCB PARTS LIST".

No.: The numbers are location number(s) on the " 3. EXPLODED VIEWS, PACKING AND PARTS LIST", respectively.

# **FL AND UCOM Assy**

AWZ8374, AWZ8091 and AWZ8090 have the same construction except for the following:

Mark	Combai 9. Passintian		Dt		
IVIARK	Symbol & Description	AWZ8090	AWZ8374	AWZ8091	Remarks
	Q827	DTA124ES	DTA124ES	Not Used	
į	Q829	DTA143ES	DTA143ES	Not Used	
	Q830	DTC143ES	DTC143ES	Not Used	
	D827-D829	1SS252	1SS252	Not Used	
	L827	LAU010J	LAU010J	Not Used	
	C833	CKPUYY103M16	CKPUYY103M16	Not Used	
ł	C835	CKCYB331K50	CKCYB331K50	Not Used	
	R828	Not Used	RD1/4PU473J	Not Used	*2
	R829	Not Used	Not Used	RD1/4PU223J	*2
	R831	RD1/4PU472J	RD1/4PU472J	Not Used	
	R850	RD1/4PU473J	Not Used	RD1/4PU473J	
	R851	RD1/4PU473J	RD1/4PU473J	Not Used	
	R862	Not Used	Not Used	RD1/4PU473J	*2
	Remote Receiver Unit	GP1U58X	GP1U58X	Not Used	

Note \*2: Refer to " 5. SCHEMATIC AND PCB CONNECTION DIAGRAMS".

## **VOL. Assy**

AWZ8093 and AWZ8092 have the same construction except for the following:

8.0 1.	Comball & Danning	Part	No.	
Mark	Symbol & Description	AWZ8092	AWZ8093	Remarks
	Q612, Q613	2SA1115	Not Used	
	Q614, Q615	2SC2603	Not Used	
	C611	CEANP4R7M50	Not Used	
	C612	CEAS470M25	Not Used	
	VR601	ACX7021	ACT7001	
	R619, R620	RD1/4PU471J	Not Used	•
	R621, R622	RD1/4PU473J	Not Used	
	R623, R624	RD1/4PU102J	Not Used	

**MOTHER Assy** 

AWZ8087, AWZ8088, AWZ8089 and AWZ8086 have the same construction except for the following:

			Part	No.		Remarks
Mark	Symbol & Description	AWZ8086	AWZ8086 AWZ8087 A		AWZ8089	nemarks
	Q401	DTC143ES	DTC143ES	Not Used	Not Used	
	Q407	2SC2235	2SC2235	Not Used	Not Used	
	D411	1SS252	1SS252	Not Used	Not Used	
	D414, D416	MTZJ5.6A	MTZJ5.6A	Not Used	Not Used	
	D415	S5688G	M5688G	Not Used	Not Used	
	D417	1SS252	Not Used	1SS252	1SS252	
	S402 (9kHz/10kHz)	Not Used	Not Used	Not Used	ASH1027	*2
	RY401	ASR1044	ASR1044	Not Used	Not Used	
$\triangle$	T401	ATT1223	ATT1193	Not Used	Not Used	
	C165, C166	CFTXA153J50	CFTXA103J50	CFTXA153J50	CFTXA123J50	
	C203, C204	Not Used	CCCSL221J50	Not Used	Not Used	*2
	C317, C318	CFTXA473J50	CFTYA104J50	CFTXA473J50	CFTXA473J50	
	C319, C320	Not Used	CFTYA104J50	Not Used	Not Used	*2
	C401, C402	ACH7018	ACH1265	ACH7018	ACH7019	
		(8200 μ F/DC71V)	(8200 μ F/DC50V)	(8200 μ F/DC71V)	(8200 μ F/DC80V)	
	C409, C417	CEAS101M25	CEAS101M25	Not Used	Not Used	
	C410	CEAS471M25	CEAS471M25	Not Used	Not Used	
	C411	CKCYF103Z50	CKCYF103Z50	Not Used	Not Used	
	C412 (0.022 μ F/AC400V)	ACG1030	ACG1030	Not Used	Not Used	
	C413 (0.01 $\mu$ F/AC250V)	ACG7020	ACG7020	Not Used	Not Used	
	C415	CEAS221M16	CEAS221M10	CEAS221M16	CEAS221M16	
	C416	Not Used	CEAS2R2M50	Not Used	Not Used	*2
	C422 (0.1 µ F/AC250V)	Not Used	Not Used	ACE-507	ACE7004	*2
	C423	CEAS470M25	Not Used	CEAS470M25	Not Used	
	R333, R334	RD1/4PU392J	RD1/4PU272J	RD1/4PU392J	RD1/4PU392J	
	R351-R354	RFA1/4PS470J	RD1/4PMF470J	RFA1/4PS470J	RFA1/4PS470J	
	R403	RD1/2PM221J	Not Used	RD1/2PM221J	RD1/2PM221J	
	R409	RS2LMF121J	RS2LMF121J	Not Used	Not Used	
	R410	RD1/2PM270J	RD1/2PM270J	Not Used	Not Used	
	R415 ( 2.2MΩ, 1/2W)	ACN-208	Not Used	ACN-208	Not Used	
	R416	RD1/4PU332J	RD1/4PU332J	Not Used	Not Used	•
	R422	Not Used	RS3LMF221J	Not Used	Not Used	*2
	R4001	Not Used	Not Used	Not Used	RD1/4PU102J	*2
<u>A</u>	1P AC Outlet	AKP1060	Not Used	AKP1060	AKP1060	
	JA203	PKN1004	PKN1004	Not Used	Not Used	

Note \*2: Refer to " 5. SCHEMATIC AND PCB CONNECTION DIAGRAMS".

# **POWER SW. Assy**

AWZ8095 and AWZ8094 have the same construction except for the following:

		Part	Damaska	
Mark	Symbol & Description	AWZ8094	AWZ8095	Remarks
	D876	BR3371XJ30A	Not Used	
	S401	Not Used	ASG1035	*2
	S876	ASG1034	Not Used	
	C418 (0.01 µ F/AC250V)	Not Used	ACG7020	*2
	R876	RD1/4PU331J	Not Used	

Note \*2: Refer to " 5. SCHEMATIC AND PCB CONNECTION DIAGRAMS".

### TRANS Assy

AWZ8378 and AWZ8097 have the same construction except for the following:

		Par	t No.	
Mark	Symbol & Description	AWZ8097	AWZ8378	Remarks
	C952-C954	Not Used	CKCYF103Z50	*2
ŀ	R952	Not Used	RD1/4PU100J	*2
	J36	Not Used	DB015EB0	*2

Note \*2: Refer to " 5. SCHEMATIC AND PCB CONNECTION DIAGRAMS".

# PCB PARTS LIST

Mark	No.	Description	Parts No.
PRIM	ARY	ASSY (AWZ8381 for S)	(-205/SDXJ)
OTHE	RS		
	J24	LEAD WIRE UNIT	DB420EB0
	J25	LEAD WIRE UNIT	DB220EB0
	J26	LEAD WIRE UNIT	DB920EB0
	J27	LEAD WIRE UNIT	DB820EB0
	J28	LEAD WIRE UNIT	DB520EB0

# 11. SPECIFICATIONS

#### **Amplifier Section**

Continuous Average Power Output is 100 watts\* per channel, min., at 8 ohms from 40 Hertz to 20,000 Hertz with no more than 0.9%\*\* total harmonic distortion.

[Multi-voltage model only]
Continuous Power Output (DIN)
1 kHz,T.H.D. 1%,8 Ω 115 W+115 W
Dynamic Power (2 $\Omega$ /4 $\Omega$ /8 $\Omega$ ) 260 W/ 220 W/ 150 W
Input (Sensitivity/Impedance)
Output (Level/impedance)
TAPE 2 REC, TAPE 1/VCR REC 200mV/2.2 kΩ
Frequency Response 10 Hz to 100 kHz 40 dB
BASS 100 Hz,±10 dB
TREBLE 10 kHz, ±10 dB
SUPER BASS
Signal-to-Noise Ratio (IHF, shortcircuited, A network)
PHONO MM
CD, TAPE 1/VCR, TAPE 2, LD/DVD96 dB
05, 171 2 17 0 11, 171 2 2, 2075 0 2 1111111111111111111111111111111111
FM Tuner Section
Frequency range 87.5 MHz to 108 MHz
Usable Sensitivity
50 dB Quieting Sensitivity
MONO
STEREO
Signal-to-Noise Ratio
MONO
STEREO
Distortion
MONO
STEREO
Alternate Channel Selectivity 60dB (400 kHz
Stereo Separation
Frequency Response
Antenna Input 75 unbalanced
America non

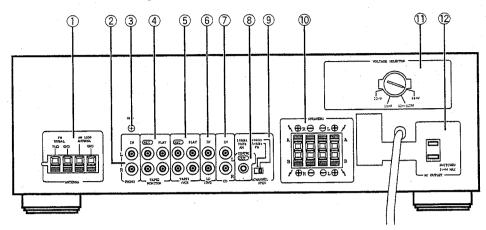
AM Tun	ner Section
Frequen	ncy range
When 10	0 kHz step530 kHz to 1,700 kHz
When 9	kHz step531 kHz to 1,602 kHz
Sensitivi	
IHF, Lo	oop antenna 350 µV/m
Selectivi	ity25dB
	o-Noise Ratio50dB
Antenna	a AM Loop Antenna
Miscella	aneous
	Requirements
U.S. a	and Canadian models AC 120 Volts, 60 Hz
Multi-v	voltage model AC 110V/120V - 127V
	/220V/240V (switchable),50/60 Hz
Power C	Consumption
U.S. a	and Canadian models 190 W (UL), 330 VA (CSA)
Multi-v	voltage model520 W
AC Outl	letSWITCHED x 1 : 100W MAX
Dimensi	ions
	16-9/16 (W) x 5-8/16 (H) x 11-12/16 (D) in
Weight	(without package)
U.S. a	and Canadian models 6.6 kg (14 lb 9 oz)
Multi-v	voltage model 6.8 kg
<b>Furnish</b>	ned Parts
FM Ante	enna1
AM Loo	pp Antenna 1
Operation	ng Instructions 1
ISX-2	
` Re	emote control unit1
Dry	y cell batteries (size "AA" (R6P))
•	, , , , , , , , , , , , , , , , , , , ,
*	Measured pursuant to the Federal Trade Commission's
	Trade Regulation rule on Power Output Claims for
	Amplifiers.
**	Measured By Audio Spectrum Analyzer.

#### NOTE:

Specifications and design subject to possible modification without notice due to improvements.

# 12. PANEL FACILITIES

• The illustration shows SX-255R/SX-205 multi-voltage model.



#### 1) FM/AM ANTENNA terminals

Use these antenna terminals for receiving FM and AM broadcasts.

#### ② PHONO jacks

Connect to the output cables from a turntable.

#### **③ GND terminal**

Connect to the ground lead of a turntable. Use a screwdriver to connect with the ground terminal.

#### **4 TAPE 2 MONITOR jacks**

Connect these jacks to a cassette deck.

#### **⑤ TAPE 1/VCR jacks**

Connect these jacks to a cassette deck or video cassette recorder.

#### 6 LD/DVD jacks

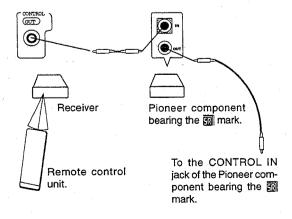
Connect to the output jacks of an LD player, DVD player or another unit.

#### ⑦ CD jacks

Connect to the output jacks of a compact disc player.

#### ® CONTROL OUT jacks (SX-255R only)

Connect this jack to other Pioneer components bearing the mark when using the remote control of this unit to control the other components.



#### 

#### **10 SPEAKERS terminals**

A: Connect to a first set of speakers.

B: Connect to a second set of speakers.

#### NOTE:

No sound will be heard through the speakers when both A and B buttons are depressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.

# ① VOLTAGE SELECTOR (multi-voltage model only)

#### 12 AC OUTLET

#### **AC OUTLET**

#### [U.S. and Canadian models] SWITCHED 100 W (0.8 A) MAX

Power supplied through this outlet is turned on and off by the receiver's POWER switch. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A MAX).

The equipment should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g. when on vacation.

#### [Multi-voltage model] SWITCHED 100 W MAX

Power supplied through this outlet is turned on and off by the receiver's POWER switch. Electrical power consumption of the connected equipment should not exceed 100 W.

The equipment should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g. when on vacation.

#### CAUTION

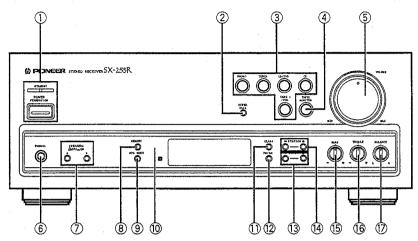
DO NOT CONNECT MONITOR OR TV SET.

#### NOTE

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET, in order to avoid overheating or fire risk.

This can cause the receiver to malfunction.

• The illustration shows the SX-255R.



#### ① POWER STANDBY/ON switch/STANDBY indicator (SX-255R)

This is the switch for electric power.

When set to the ON position, power is supplied and the ON:

unit becomes operational.

STANDBY: When set to the STANDBY position, the main power

flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. The STANDBY indicator is illuminated

during standby mode.

· The accessory remote control unit can also be used to operate STANDBY/ON.

#### NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for approx. 5 seconds.

#### 1 POWER switch/POWER indicator (SX-205)

When this switch is pressed, power is supplied to the unit and the indicator lights up.

Press the switch again to turn power OFF.

[Timer ON/OFF possible]

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

#### NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for approx. 5 seconds.

#### 2 SUPER BASS button

When this button is pressed, the bass sound will be emphasized.

#### 3 Function buttons

Use to select playback source.

#### [PHONO]

Press when listening to record playback on a turntable.

#### [TUNER]

Press when listening to AM or FM broadcasts with a tuner.

Press when listening to programs from a component connected to the LD/DVD jacks.

#### [CD]

Press when listening to compact disc playback with a CD player.

#### **ITAPE 1/VCRI**

Press when listening to tape playback on cassette deck 1 or on a video cassette recorder.

#### 4 TAPE 2 MONITOR button

Press when listening to tape playback and monitor the recording sound with the cassette deck 2.

#### ⑤ VOLUME control

Use to adjust volume level.

#### **6 PHONES jack**

Connect the plug on your headphones to this jack. To listen to a program through the headphones, set both SPEAKERS A and B switches to the OFF position.

#### SPEAKERS ( ■ OFF, ■ ON) buttons

These are used to select the speaker through which you wish to

A: When the speakers connected to the A terminals are in use.

B: When the speakers connected to the B terminals are in use.

• Turn both A and B speakers to the OFF position when only the headphones are in use.

No sound will be heard through the speakers when both A and B buttons are pressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.

#### **® MEMORY button**

When the unit is in the frequency display mode, pressing this button will result in the memorization of the current broadcast band, reception frequency, CLASS and FM MPX mode.

#### MPX MODE selector button

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the MONO indicator is lighted.

#### Auto stereo mode:

Normally leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo sound. **Monaural mode:** 

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

#### **NOTE:**

This button has no effect on reception of AM broadcasts.

#### 10 Remote sensor window (SX-255R)

#### (1) CLASS button

Use to switch between preset memory classes 1 to 3. In each class, one station can be memorized in each of the 1 to 10 stations, enabling a total of 30 stations to be memorized.

#### 12 FM/AM selector button

This button is used to select either AM or FM reception.

#### (3) TUNING buttons (-,+)

- +: The FM or AM band is scanned in the direction of increasing frequency.
- -: The opposite operation to that of the + button takes place.

#### (4) STATION buttons (-,+)

- +: Stations change in order in the upward direction.
- -: Stations change in order in the downward direction.

#### 15 BASS tone control

Use to adjust low-frequency tone. The center position is the flat (normal) position. When turned to the right, low-frequency tones are emphasized.

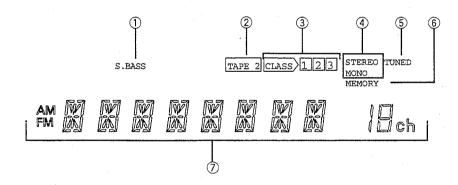
#### **16 TREBLE tone control**

Use to adjust high-frequency tone. The center position is the flat (normal) position. When turned to the right, high-frequency tones are emphasized.

#### **17 BALANCE control**

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L position and if the left side is louder, turn toward the R position.

#### **DISPLAY** section



#### 1 S.BASS indicator

Lights up when the SUPER BASS button is pressed.

#### ② TAPE 2 monitor indicator

Lights up when the function buttons is set to TAPE 2 MONITOR on.

### ③ CLASS 1 2 3 indicator

Indicates the class selected by the CLASS buton. The current CLASS is displayed.

# 4 STEREO/MONO indicator

MONO: Lights up when the FM MONO mode is selected with the MPX MODE button.

STEREO: Lights up when a stereo FM broadcast is being received.

#### **⑤ TUNED indicator**

Lights up when a station is tuned.

#### **6 MEMORY indicator**

7 Character indicator