

**Pioneer**

# Service Manual

ORDER NO.  
RRV2005

STEREO CD CASSETTE DECK RECEIVER

# XR-A330SW XR-A330EE

● Refer to the service manual RRV2006 for XR-A330/DXJ/NC.

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

Type	Model		Power Requirement	The voltage can be converted by the following method.
	XR-A330SW	XR-A330EE		
DDXJ	○	—	AC110V–127V/220–230V/240V	With the voltage selector
MLWXJ/EE	—	○	AC220–230V	—

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# 1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ●Parts marked by "NSP" and ⊗ can not be supplied.

- The Δ 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.
- Screws adjacent to ▼ mark on the product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- 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%).

560 Ω → 56 × 10<sup>1</sup> → 561 ..... RD1/4PU 5 6 1 J  
 47k Ω → 47 × 10<sup>3</sup> → 473 ..... RD1/4PU 4 7 3 J  
 0.5 Ω → R50 ..... RN2H R 5 0 K  
 1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).  
 5.62k Ω → 562 × 10<sup>1</sup> → 5621 ..... RNI/4PC 5 6 2 1 F

## ■ CONTRAST TABLE

XR-A330SW/DDXJ, XR-A330EE/MLWXJ/EE and XR-A330/DXJ/NC are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			XR-A330 /DXJ/NC	XR-A330SW /DDXJ	XR-A330EE /MLWXJ/EE	
<b>ASSEMBLIES</b>						
P7- 3	NSP	COMPLEX Assy	XWM3031	XWM3036	XWM3085	
P7- 29	⊗	├ PRIMARY Assy	XWZ3048	XWZ3048	XWZ3056	
P9- 1	⊗	├ SUB TRANS Assy	XWZ3049	XWZ3049	XWZ3155	
P7- 4	⊗	└ DISPLAY Assy	XWZ3047	XWZ3061	XWZ3062	
		FM/AM TUNER MODULE	AXQ7065	AXQ7062	AXQ7069	
<b>PACKING SECTION</b>						
P3- 1		FM Antenna	ADH7004	ADH7004	ADH7011	
P3- 2		Operating Instructions (English/ Spanish/ Portuguese)	XRE3010	Not used	Not used	
P3- 2		Operating Instructions (English/ Arabian/ Russian)	Not used	XRE3013	XRE3013	
P3- 6	NSP	Dry Cell Battery (R6P,AA)	Not used	VEM-013	VEM-013	
P3- 10		Packing Case	XHD3035	XHD3059	XHD3060	
P3- 12	Δ	Power Plug Adapter	VKX1007	Not used	Not used	
P3- 13	Δ	Power Cord	ADG1154	ADG1158	ADG1154	
P3- 15	NSP	Caution Card	XAX3130	XAX3130	Not used	
		SW Antenna	Not used	ADH7006	Not used	
	NSP	Warranty Card	Not used	Not used	ARY7022	
<b>EXTERIOR(1/2) SECTION</b>						
P5- 7		Display Panel	XAK3030	XAK3030	XAK3062	
	NSP	Getter	XAX3105	XAX3105	XAX3106	
	NSP	Name Label	Not used	XAL3020	Not used	
<b>EXTERIOR(2/2) SECTION</b>						
P7- 5	Δ	T1 Power Tranceformer	XTS3012	XTS3012	XTS3013	
P7- 6	Δ	FU2, FU3 Fuse (T1.6A)	AEK1056	AEK1056	Not used	
P7- 7	Δ	FU1 Fuse (T1.6A)	Not used	Not used	AEK1056	
P7- 7	Δ	FU1 Fuse (T3.15A)	AEK1059	AEK1059	Not used	
P7- 15		Rear Panel	XNC3018	XNC3004	XNC3027	
P9- 20		GND Plate B	XNG3005	XNG3005	Not used	

Note: ● For ASSEMBLIES, refer to "CONTRAST OF PCB ASSEMBLIES", "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

■ CONTRAST OF PCB ASSEMBLIES

**G** PRIMARY ASSY

XWZ3056 and XWZ3048 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3048	XWZ3056	
	H3-H6 Fuse Clip S1	AKR7001 AKX7006	Not used Not used	

**H** SUB TRANS ASSY

XWZ3155 and XWZ3049 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3049	XWZ3155	
	S2	AKX7004	Not used	

**I** DISPLAY ASSY

XWZ3061, XWZ3062 and XWZ3047 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		XWZ3047	XWZ3061	XWZ3062	
	C5501	Not used	Not used	CCSQCH220J50	
	C5502	Not used	Not used	CCSQCH270J50	
	D5594	Not used	1SS133	Not used	
	D5595	Not used	Not used	1SS133	
	R9996	RS1/10S0R0J	RS1/10S0R0J	RS1/10S471J	
	X5501 (6MHz)	RSS1050	RSS1050	ASS7015	

■ PCB PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
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**AA** FM/AM TUNER MODULE(AHQ7062)

SEMICONDUCTORS

IC6201	LA1832ML
IC6202	LC72131MD
Q6402	2SC2223
Q6203	2SC2705
Q6201, Q6202	2SC2712
Q6214, Q6403	2SC2714
Q6304, Q6306	2SD2114K
Q6404	2SK302
Q6401	3SK194
Q6301-Q6303	DTA124EK
Q6204	DTA124ES
Q6205	DTC124EK
D6202, D6303-D6308, D6310-D6312	1SS254
D6314, D6315	1SS254
D6302, D6309	1SS85

COILS AND FILTERS

L6303	ATA7001
L6304	ATA7002
L6404	ATC1003
L6401	ATC1020
L6402	ATC1021
F6204	ATF-107
F6203	ATF-119
F6401	ATF-155
F6206	ATF7008
F6202	ATF7012
L6206, L6208, L6403	LAU2R2J
L6301, L6302	LTA393J

TRANSFORMERS

T6201	ATB7008
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# XR-A330SW, XR-A330EE

Mark	No.	Description	Part No.
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	T6401		ATE7002
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## CAPACITORS

C6208	CCSQCH100D50
C6212,C6274,C6275,C6408	CCSQCH101J50
C6221,C6222,C6416	CCSQCH150J50
C6271	CCSQCH200J50
C6415	CCSQCH330J50

C6401,C6419	CCSQCH5R0C50
C6304	CCSQCH7R0D50
C6407	CCSQCK1R0C50
C6320,C6410	CCSQCK2R0C50
C6413	CCSQPH220J50

C6414	CCSQPH8R0D50
C6405	CCSQTH180J50
C6234,C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAS100M50

C6243	CEAS101M16
C6231	CEAS1R0M50
C6227	CEAS220M16
C6236	CEAS2R2M50
C6216	CEAS330M16

C6262	CEAS3R3M50
C6219	CEAS470M10
C6244	CEAS470M16
C6249,C6250,C6265,C6266	CEAS4R7M50
C6258	CEJA470M16

C6215	CFTLA103J50
C6214	CFTLA224J50
C6211,C6254,C6403,C6406,C6412	CKSQYB102K50
C6201,C6205,C6210,C6213,C6237	CKSQYB103K50
C6276,C6278,C6280,C6281,C6302	CKSQYB103K50

C6308,C6312,C6314,C6318,C6319	CKSQYB103K50
C6402,C6409,C6417,C6418	CKSQYB103K50
C6251,C6252	CKSQYB153K50
C6303	CKSQYB222K50
C6203,C6259,C6301,C6305,C6306	CKSQYB223K50

C6311,C6315	CKSQYB223K50
C6228	CKSQYB472K50
C6209	CKSQYB473K50
C6310	CKSQYB562K50
C6230	CKSQYB821K50

C6218,C6223,C6255	CKSQYF103Z50
C6316	CKSQYF105Z16
C6220,C6226,C6242,C6256	CKSQYF223Z50
C6225	CKSQYF473Z50

## RESISTORS

R6280	RD1/4PU101J
R6311,R6318,R6413,R6416,R6418	RS1/8S0R0J
R6906,R6909	RS1/8S0R0J
R6304	RS1/8S103J
R6401	RS1/8S470J

Mark	No.	Description	Part No.
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## **ABF** FM/AM TUNER MODULE (AXQ7069)

### SEMICONDUCTORS

IC6201	LA1832ML
IC6202	LC72131MD
Q6102	2SC2223
Q6203	2SC2705
Q6201,Q6202	2SC2712

Q6103,Q6214	2SC2714
Q6104,Q6105	2SK302
Q6101	3SK194
Q6204	DTA114ES
Q6205	DTC124EK

D6202	1SS254
D6105	1SS355
D6101,D6102,D6104	1SV228

### COILS AND FILTERS

L6103	ATC1027
L6106	ATC7001
L6101	ATC7002
L6102	ATC7003
L6104	ATC7004

F6204	ATF-107
F6203	ATF-119
F6206	ATF7008
F6202	ATF7011
L6107,L6206,L6208	LAU2R2J

### TRANSFORMERS

T6201	ATB7008
T6101	ATE7002

### CAPACITORS

C6208	CCSQCH100D50
C6113,C6212,C6274,C6275	CCSQCH101J50
C6116,C6221,C6222	CCSQCH150J50
C6271	CCSQCH200J50
C6117	CCSQCH330J50

C6128	CCSQCH470J50
C6118	CCSQCH8R0D50
C6122	CCSQCK3R0C50
C6111,C6112,C6119,C6127	CCSQCK2R0C50
C6101	CCSQUJ2R0C50

C6106	CCSQUJ8R0D50
C6107	CCSQUJ9R0D50
C6234,C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAT100M50

C6243	CEAT101M16
C6231	CEAT1R0M50
C6227	CEAT220M50
C6236	CEAT2R2M50
C6216	CEAT330M16

Mark	No.	Description	Part No.
	C6262		CEAT3R3M50
	C6219,C6244		CEAT470M16
	C6249,C6250,C6265,C6266		CEAT4R7M50
	C6258		CEJA470M16
	C6215		CFTLA103J50
	C6214		CFTLA564J50
	C6105,C6115,C6125,C6126,C6211		CKSQYB102K50
	C6254		CKSQYB102K50
	C6102,C6103,C6114,C6121		CKSQYB103K50
	C6123,C6124,C6201,C6210,C6213		CKSQYB103K50
	C6237,C6267,C6276,C6279-C6281		CKSQYB103K50
	C6251,C6252		CKSQYB123K50
	C6203,C6259		CKSQYB223K50
	C6228		CKSQYB472K50
	C6209		CKSQYB473K50
	C6230		CKSQYB821K50
	C6218,C6223,C6255		CKSQYF103Z50
	C6220,C6226,C6242,C6256		CKSQYF223Z50
	C6225		CKSQYF473Z50
	C6282		CKSYB103K50

**RESISTORS**

	R6280		RD1/4PU101J
	R6115,R6119,R6123,R6127,R6906		RS1/8S0R0J
	R6909,R6911		RS1/8S0R0J
	R6112		RS1/8S473J
	VR6201 (10kΩ/0.1W)		PCP1029
	Other Resistors		RS1/10S□□□J

**OTHERS**

	BN6202	TERMINAL 4-P	AKE7025
	X6202	CERAMIC RESONATOR (456kHz)	ASS1066
	X6201	CRYSTAL RESONATOR (7.2MHz)	ASS1093
	CN6201	14P SOCKET AM RF TUNING BLOCK	KP200IA14L AXX7041

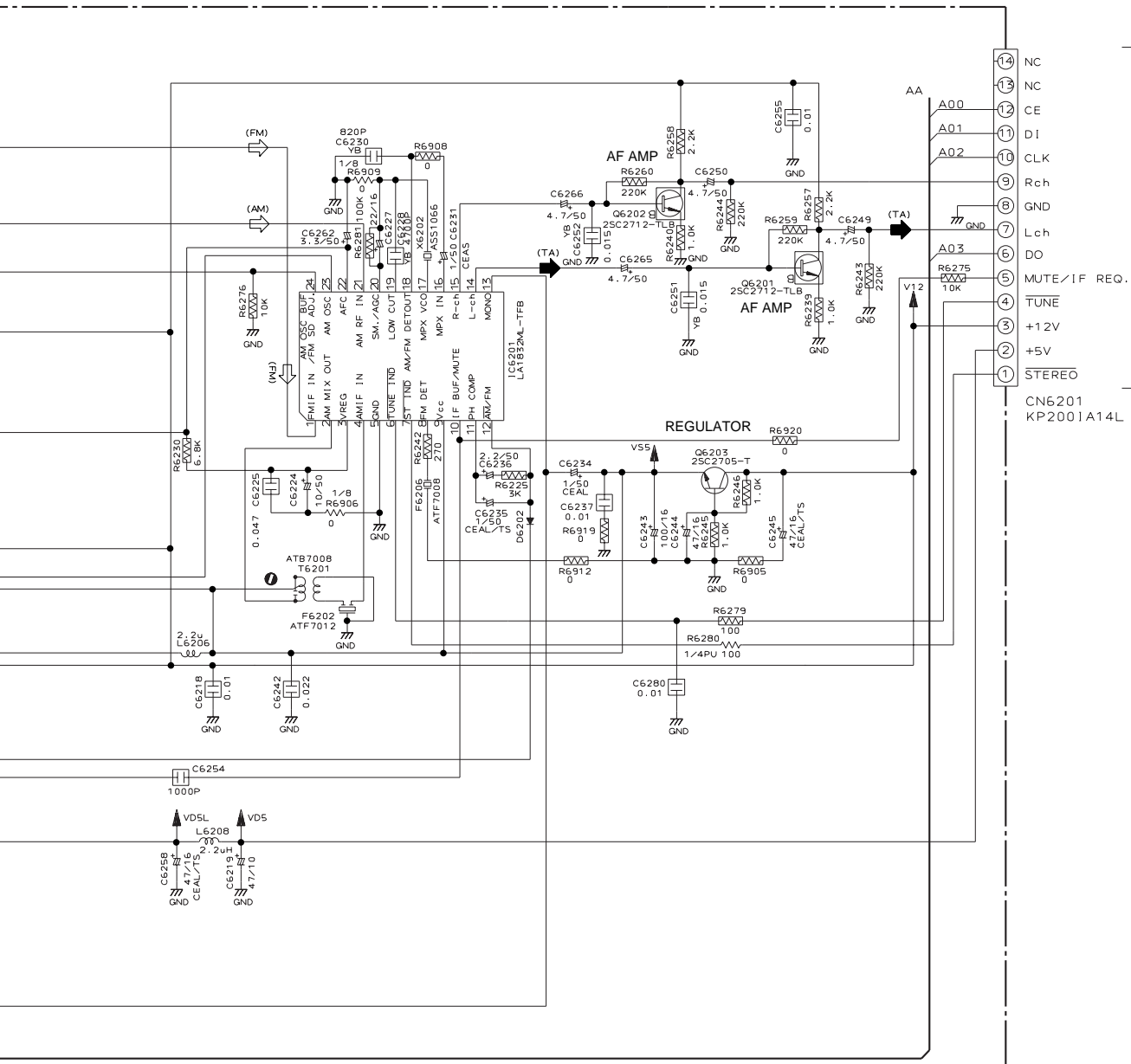


SIGNAL ROUTE

- (AM) AM SIGNAL ROUTE
- (FM) FM SIGNAL ROUTE
- (TA) TUNER AUDIO SIGNAL ROUTE

Notes

1. RESISTORS  
Indicated in  $\Omega$ ,  $1/10W \pm 5\%$  Tolerance unless otherwise noted K:K $\Omega$ , M:M $\Omega$ .
2. CAPACITORS  
Indicated in Capacity ( $\mu F$ )/VOLTAGE (V) unless otherwise noted P:PF.
3. DIODES  
No mark diode is 1SS254.



KN1054

- 14 NC
- 13 NC
- 12 CE
- 11 DI
- 10 CLK
- 9 Rch
- 8 GND
- 7 Lch
- 6 DO
- 5 MUTE/IF REQ.
- 4 TUNE
- 3 +12V
- 2 +5V
- 1 STEREO

CN6201  
KP2001A14L







## 2.3 DISPLAY and CD SW LED ASSEMBLIES

### **OF** DISPLAY ASSY (XR-A330 : XWZ3061) (XR-A330 : XWZ3062)

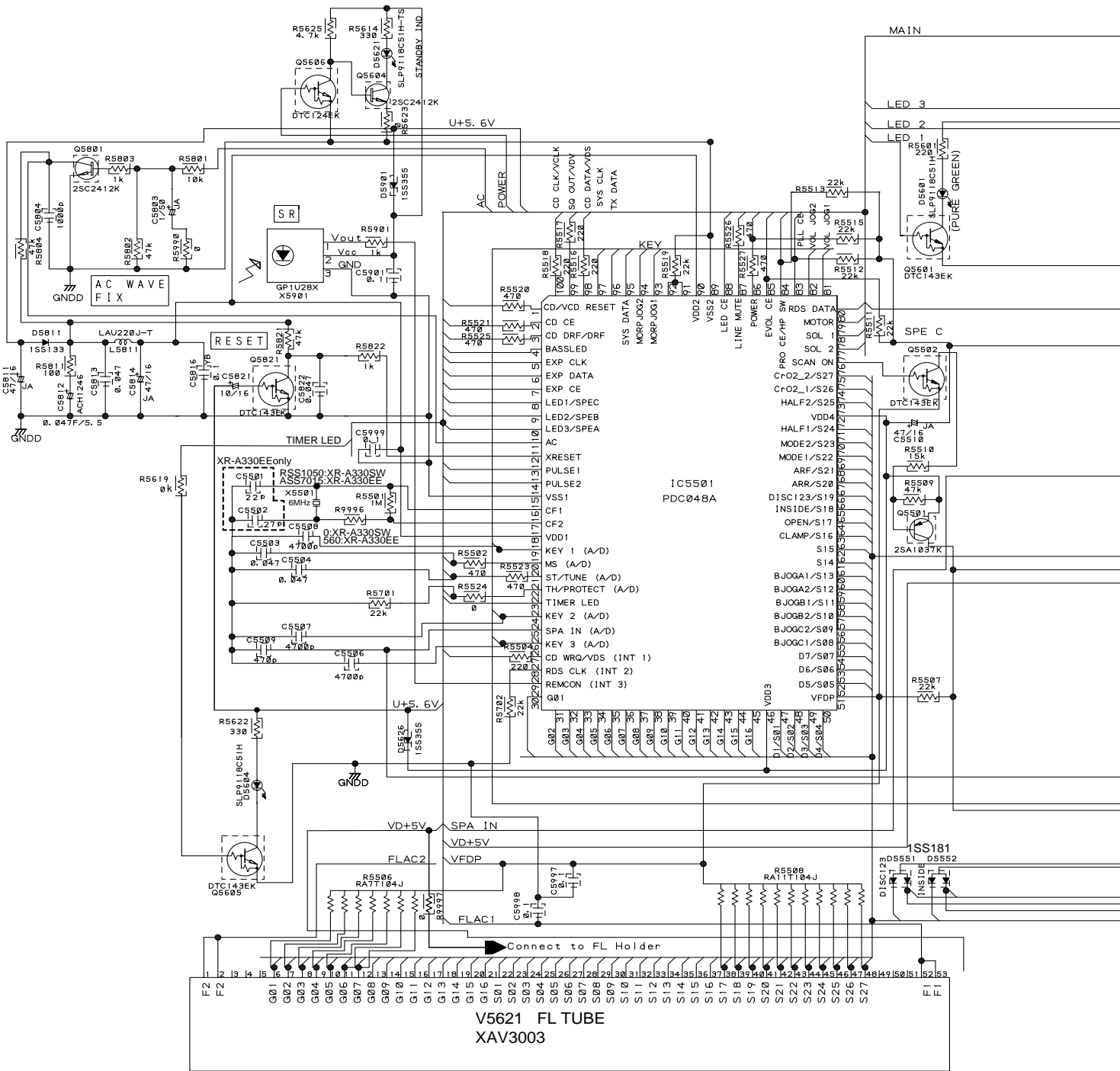
**NOTES** ALL CAPACITORS ARE IN #F UNLESS OTHERWISE SPECIFIED  
 TL : CFTLA  
 M : CQMA  
 CH : CCSOCH  
 YB : CKSQYB  
 SL : CCSQSL  
 (OTHER : CKSQYF)

AL : CEAL JA : CEJA  
 HAQ : CEHAQ  
 (OTHER : CEAS\*\*MHH or CEAT\*\*MHH)  
 ALL RESISTORS ARE IN Ω  
 1/10W (CHIP)  
 1/4WPU  
 ALL INDUCTORS ARE IN #H  
 LAU

### SWITCHES

#### DISPLAY ASSY

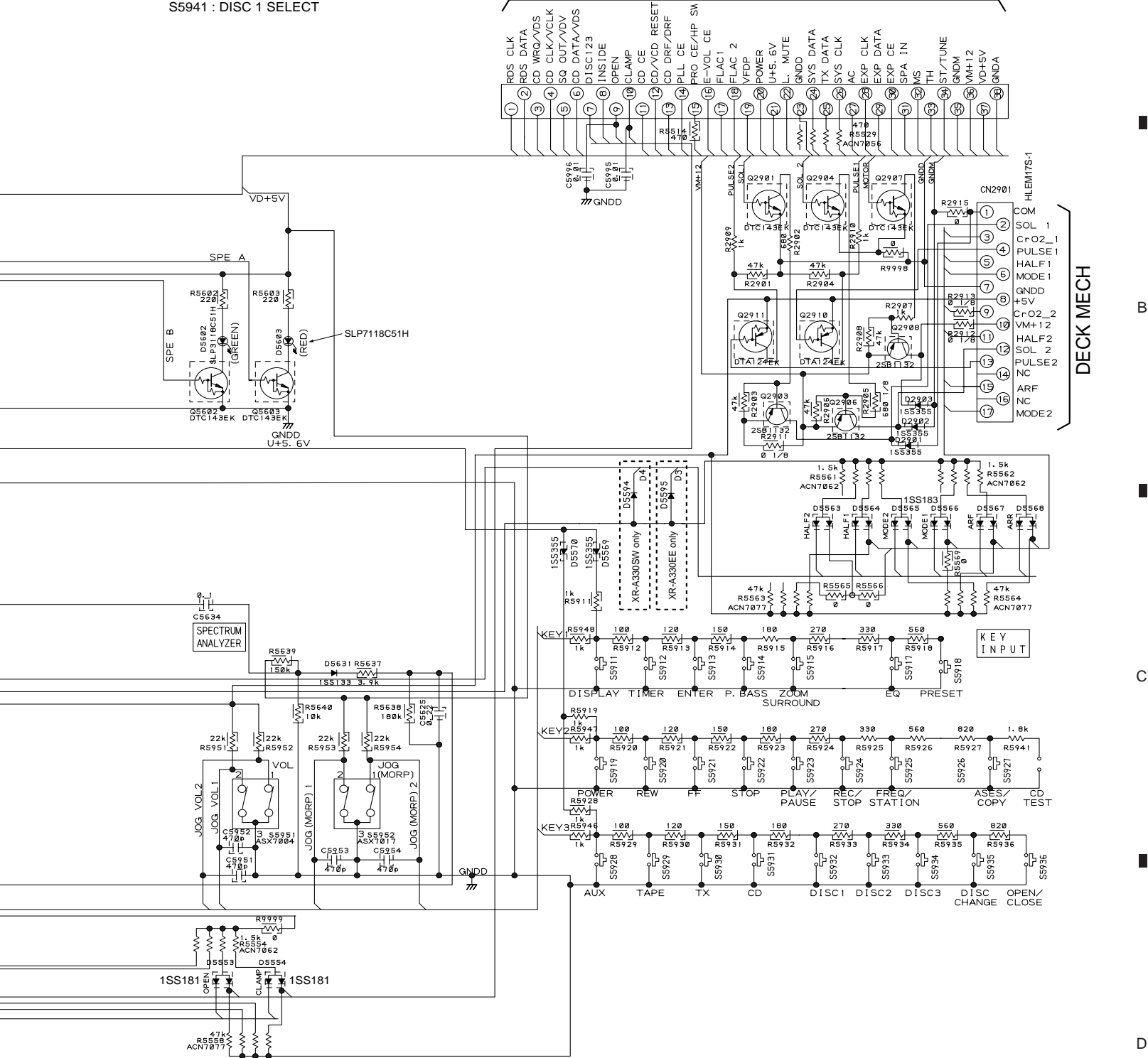
- S5911 : DISPLAY
- S5912 : TIMER
- S5913 : ENTER
- S5914 : P. BASS
- S5915 : ZOOM SURROUND
- S5916 : BASS BLASTER
- S5917 : EQUALIZER
- S5918 : PRESET
- S5919 : STANDBY/ON
- S5920 : TUNING - ◀▶▶▶
- S5921 : TUNING + ▶▶▶▶
- S5922 : STOP
- S5923 : PLAY/PAUSE
- S5924 : REC/STOP
- S5925 : FREQ/STATION
- S5926 : DOLBY NR ON/OFF
- S5927 : ASES/COPY
- S5928 : AUX
- S5929 : TAPE I/II
- S5930 : TUNER/BAND
- S5931 : CD
- S5932 : DISC 1 SELECT
- S5933 : DISC 2 SELECT
- S5934 : DISC 3 SELECT
- S5935 : DISC CHANGE
- S5936 : OPEN/CLOSE



CD SW LED ASSY  
 S5937 : OPEN/CLOSE  
 S5938 : DISC CHANGE  
 S5939 : DISC 3 SELECT  
 S5940 : DISC 2 SELECT  
 S5941 : DISC 1 SELECT

CN5501  
 52045-3845

**E2/3** CN5101



### 3. PCB CONNECTION DIAGRAM

#### 3.1 FM/AM TUNER MODULE (AXQ7062)

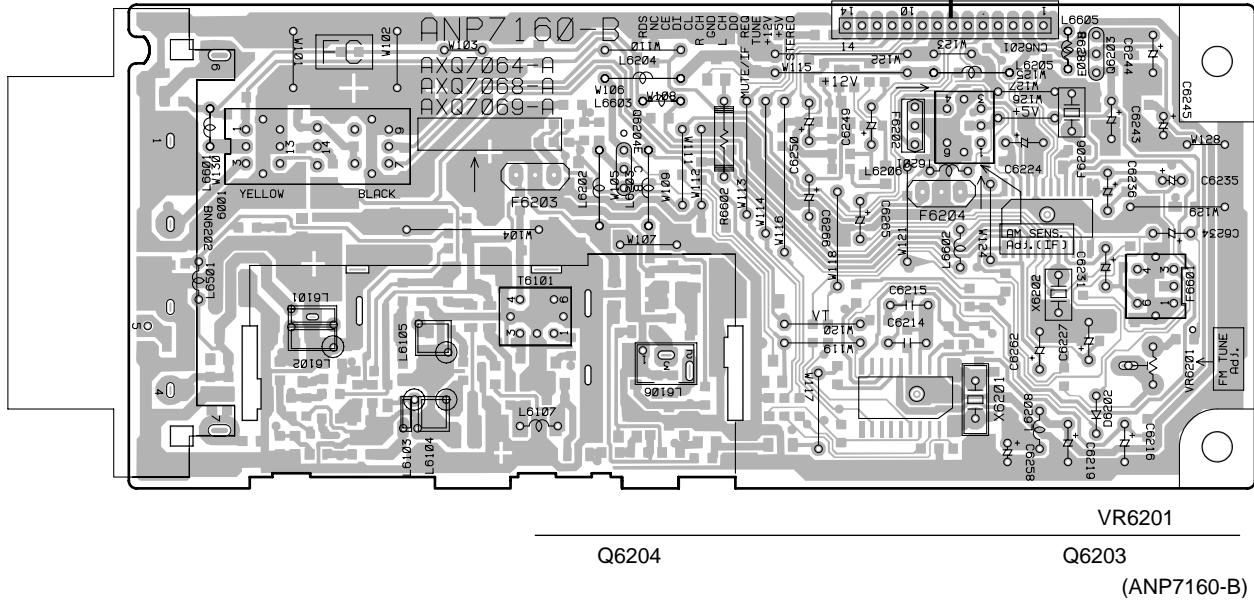
● AXQ7062 is constructed the same PCB(ANP7159) as AXQ7065 , refer to the service manual RRV2006 for XR-A330.

#### 3.2 FM/AM TUNER MODULE (AXQ7069)

**K** CN1054

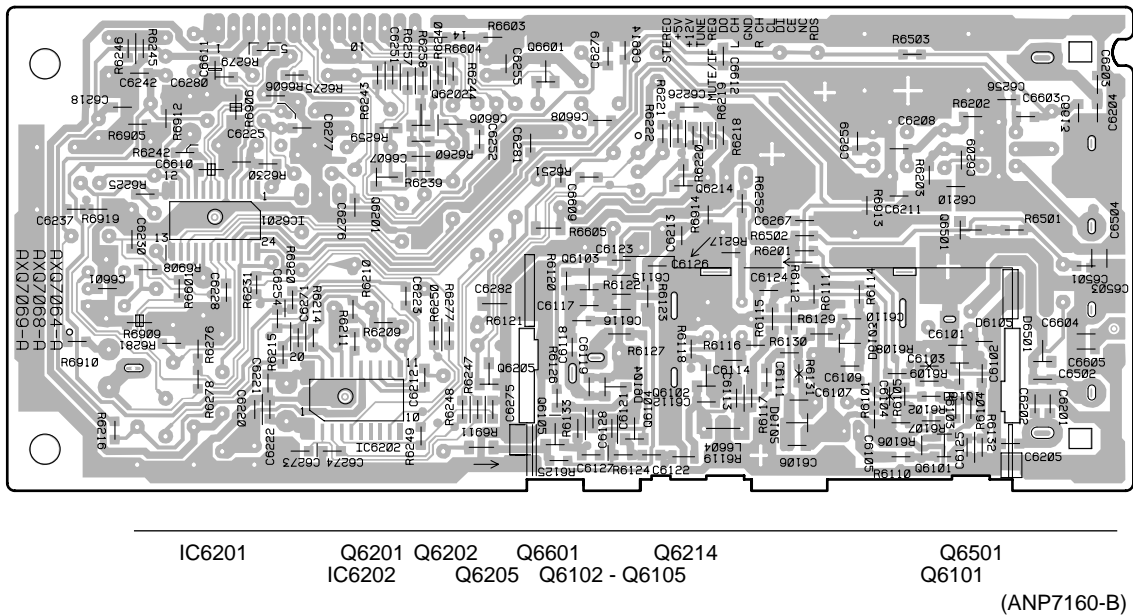
**AA** F FM/AM TUNER MODULE

**SIDE A**



**AA** F FM/AM TUNER MODULE

**SIDE B**



## 4. ADJUSTMENT

### 4.1 ADJUSTMENT FOR XR-A330SW

Note : Adjustment of XR-A330SW/DDXJ are the same as those of XR-A330/DXJ/NC except for the following:

#### ■ AM Tuner SW Section

- Set the mode selector to SW2.
- Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Input Level (dBμV/EMF)			
1	AM Front End Sensitivity Adjustment	14	25-35	14MHz	L6303	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.

Before adjustment, connect AM-ANT. and IEC-dummy ANT.. Signal input is through IEC-dummy ANT.. Connecting AM-ANT. follows Fig. 1.

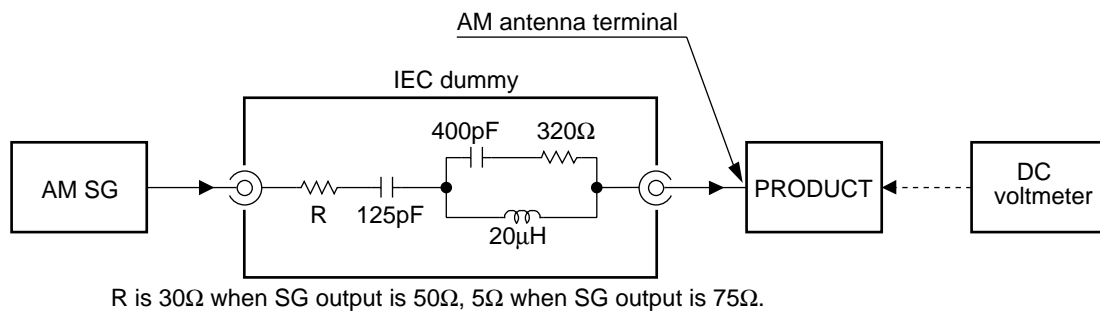


Fig. 1 SW adjustment wiring diagram

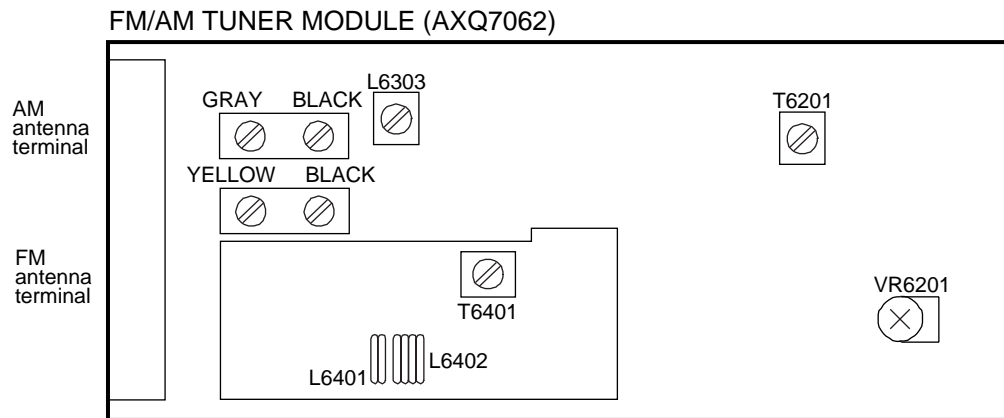


Fig. 2 Adjustment points

## 4.2 ADJUSTMENT FOR XR-A330EE

Note : Adjustment of XR-A330EE/MLWXJ/EE are the same as those of XR-A330/DXJ/NC except for the following:

### FM Tuner Section

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

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	70	0-30	70MHz	L6104 L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.
2	TUNED IND. Lighting Level	98	18±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102 as well as between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.

### AM Tuner Section

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

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	Front End Sensitivity	999*1	35-45	999kHz*1	T6201	Adjust so that the DC voltage between the IC6201-Pin 20 and GND becomes at maximum level.

\*1: For the area using 10kHz step, frequencies should be 1000kHz

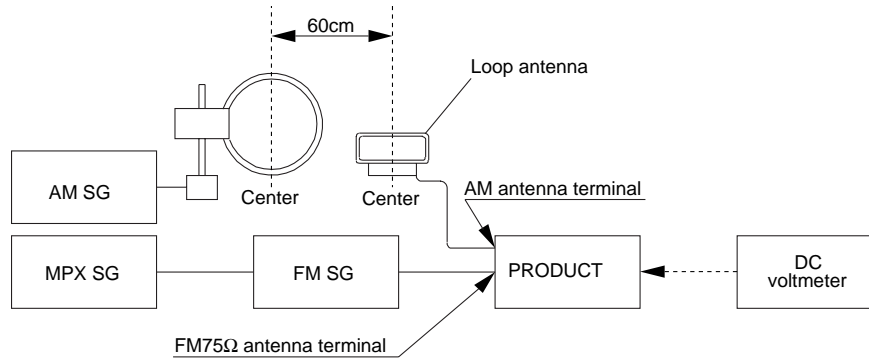


Fig. 1 AM and FM Adjustment Wiring Diagram

### FM/AM TUNER MODULE (AXQ7069)

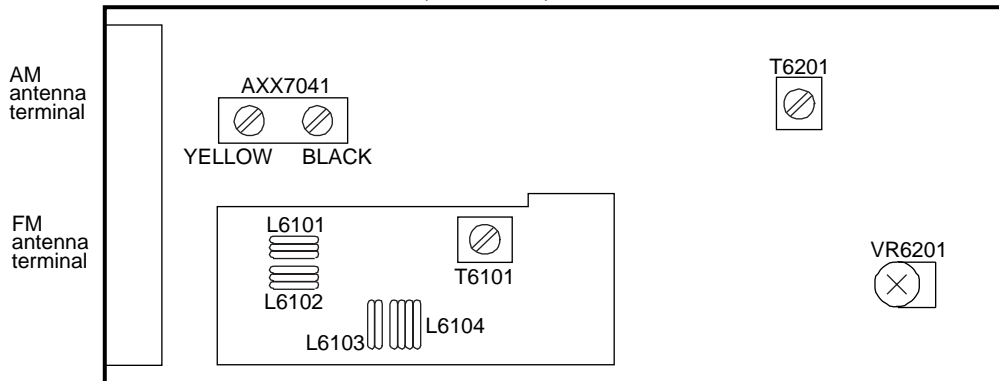


Fig. 2 Adjustment Points