PIONEER®
The Art of Entertainment

Service Manual

ORDER NO.
ARP2307

FM/AM DIGITAL SYNTHESIZER TUNER

F-550RDS

HE,HB,HEWZI

- **Refer to the service manual ARP2242, F–676/HEWZ type.**
- **This manual is applicable to the F–550RDS/HE, HB and HEWZI types.**

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JULY 1991

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Part without part number cannot be supplied.*
- *The ⚠ 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.*

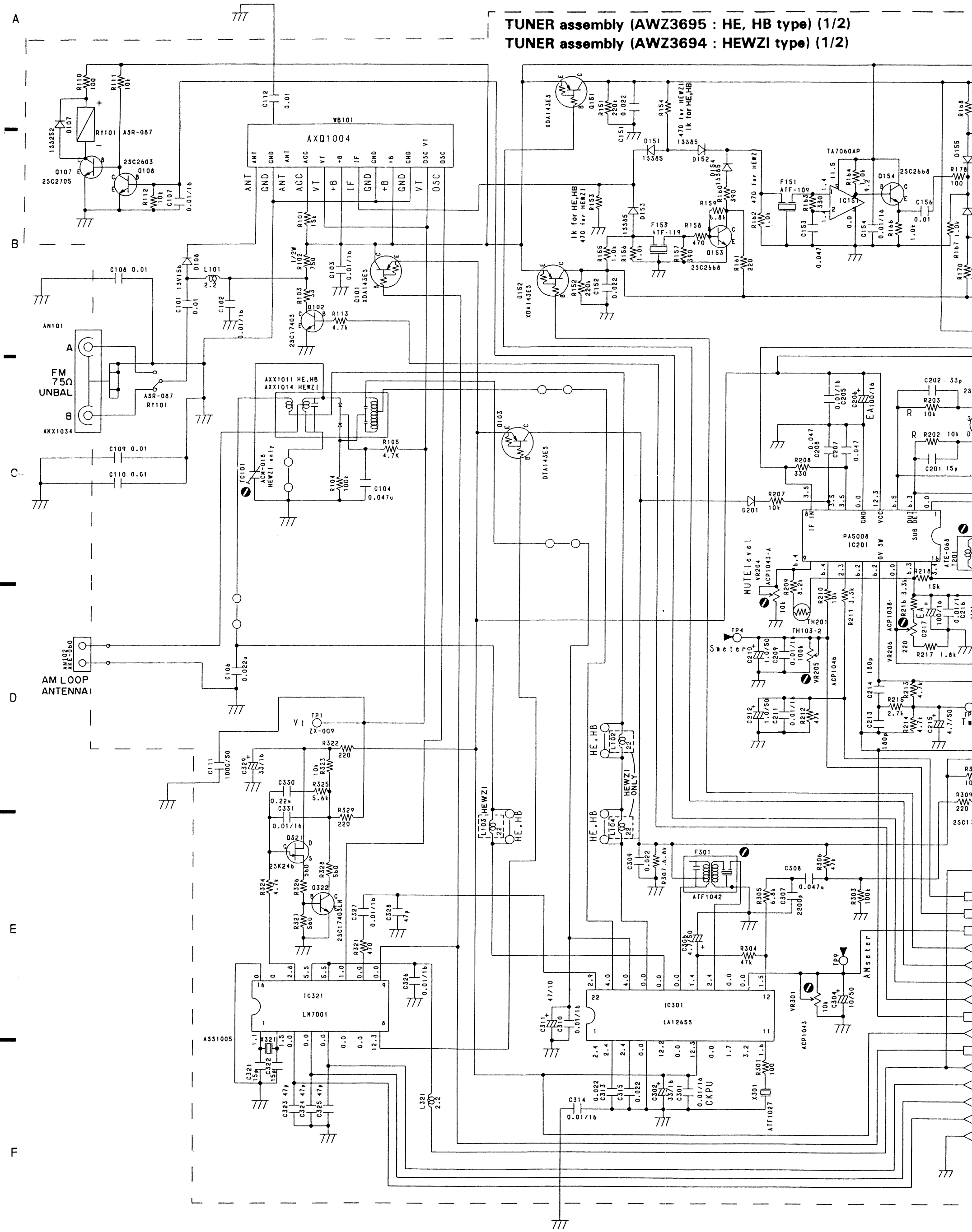
The F – 550RDS/HE, HB and HEWZI types are the same as the F – 676/HEWZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		F–676/ HEWZ type	F–550RDS/ HE type	F–550RDS/ HB type	F–550RDS/ HEWZI type	
◉	TUNER assembly	AWZ3635	AWZ3695	AWZ3695	AWZ3694	
◉	POWER assembly	AWZ3639	AWZ3697	AWZ3697	AWZ3696	
	DISPLAY assembly	AWP1034	AWP1038	AWP1038	AWP1038	
⚠	AC Power cord	ADG1010	ADG1021	ADG1085	ADG1021	
	Front panel	ANB1449	ANB1481	ANB1481	ANB1481	
	Panel base	AMB1815	AMB1841	AMB1841	AMB1841	
	Screw (EARTH)	ABA1047	.....	.....	ABA1047	
	Packing case	AHD2053	AHD2106	AHD2106	AHD2106	
	Operating instructions (German, Italian)	ARC1263	.....	.....	ARC1283	
	Operating instructions (English, French, German, Italian, Dutch, Swedish, Spanish, Portugues)	.....	ARE1205	.....	.....	
	Operating instructions (English)	.....	.....	ARB1326	.....	
	Connection cord with mini plug	.....	ADE–085	ADE–085	ADE–085	

2. SCHEMATIC AND P.C.BOARDS CONNECTION DIAGRAM

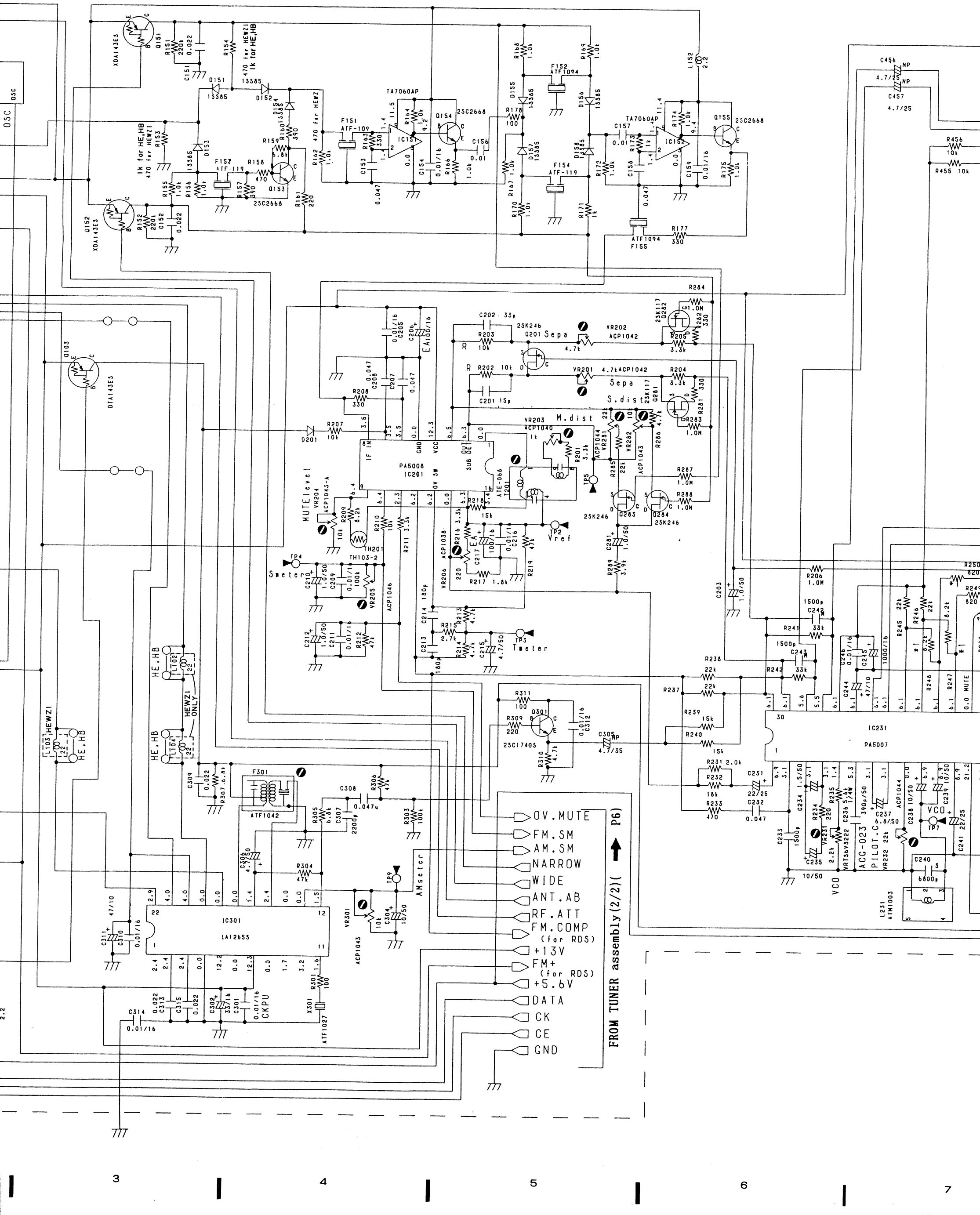
2.1 SCHEMATIC DIAGRAM OF TUNER ASSEMBLY (1/2)

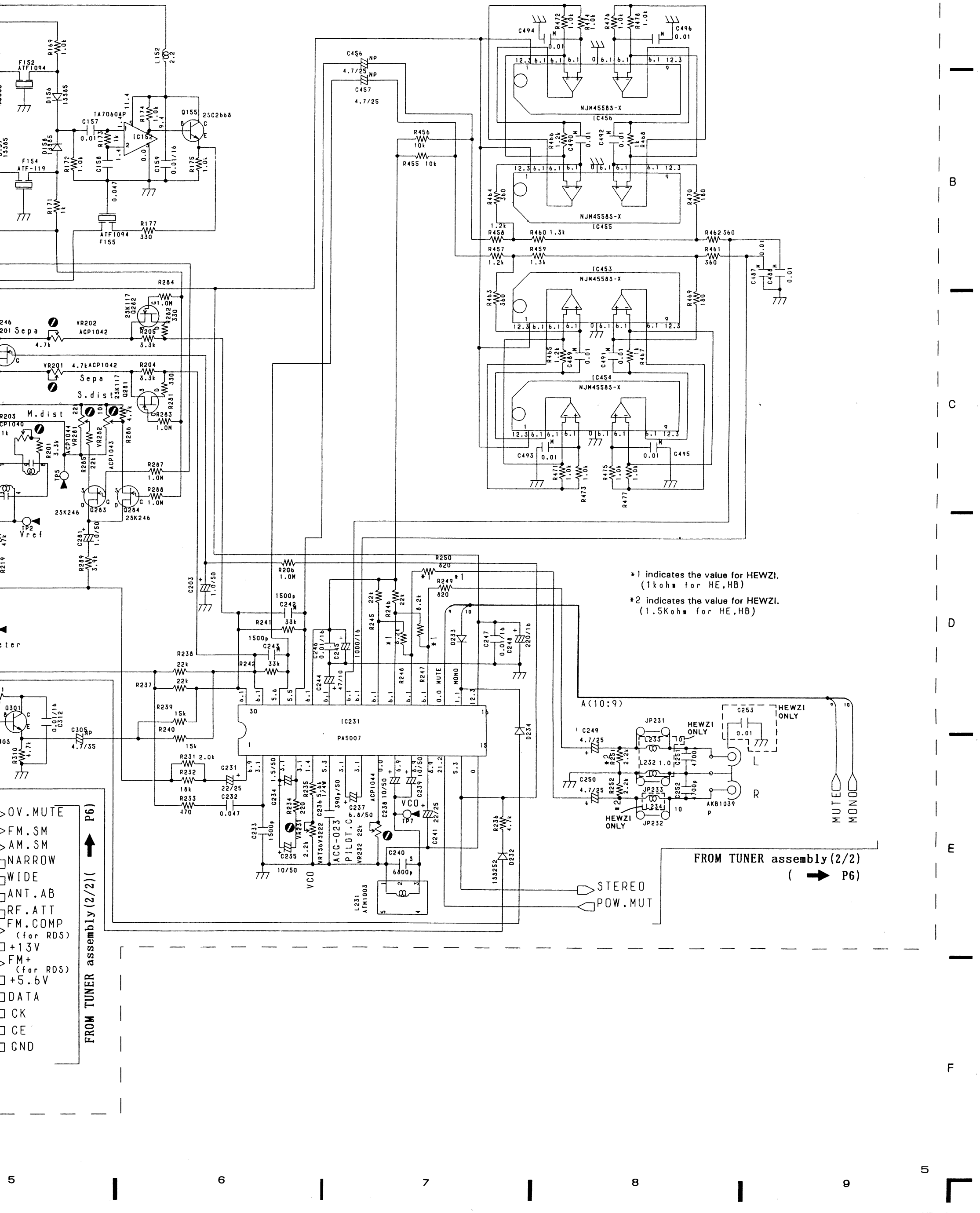
TUNER assembly (AWZ3695 : HE, HB type) (1/2)
TUNER assembly (AWZ3694 : HEWZI type) (1/2)



CTION DIAGRAM

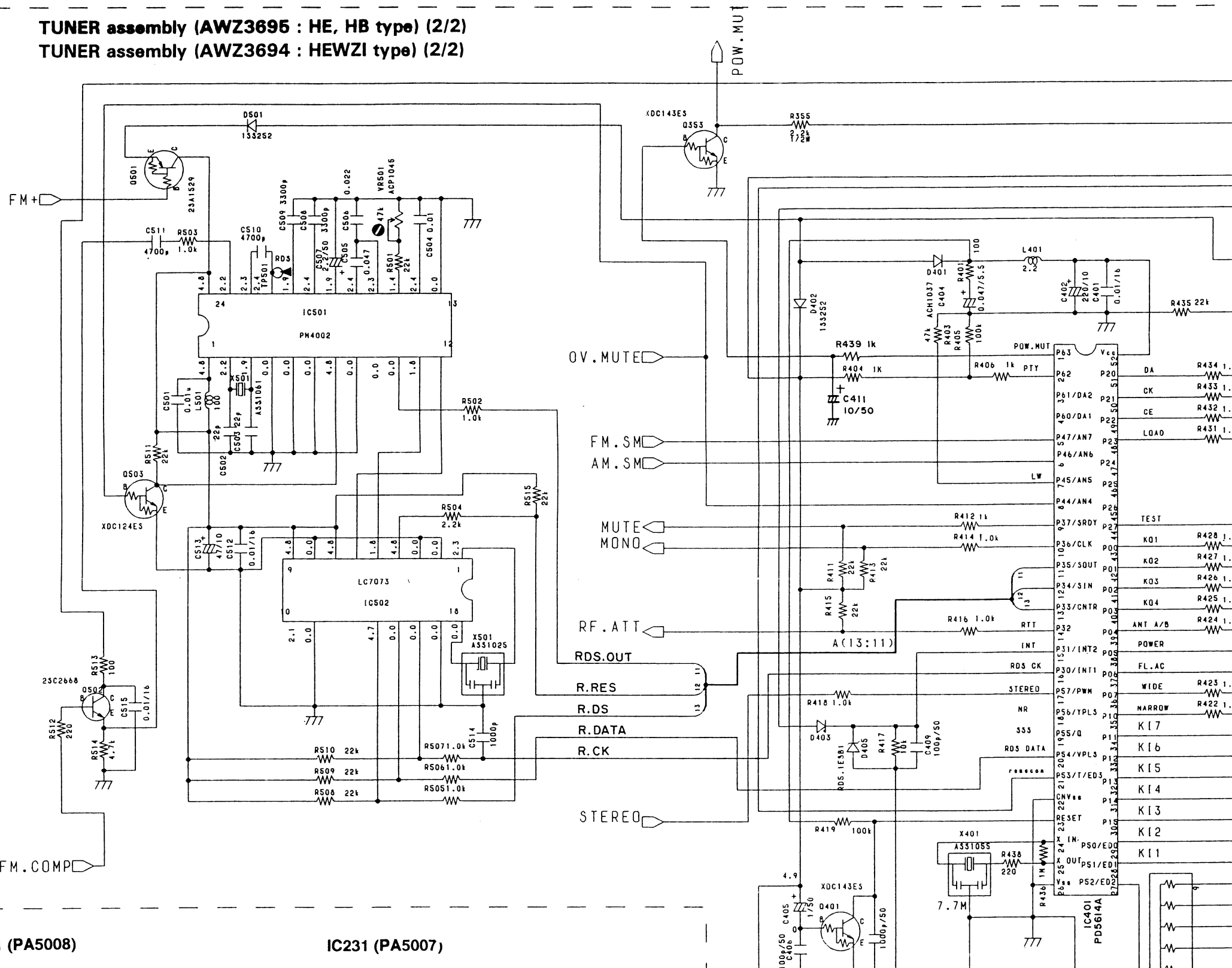
TUNER assembly (AWZ3695 : HE, HB type) (1/2)
TUNER assembly (AWZ3694 : HEWZI type) (1/2)



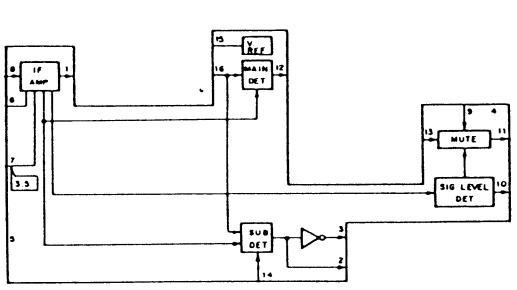


2.2 SCHEMATIC DIAGRAM OF TUNER ASSEMBLY (2/2) and POWER ASSEMBLY (AWZ3697)

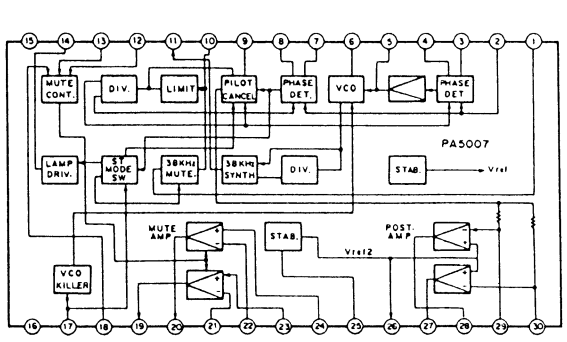
TUNER assembly (AWZ3695 : HE, HB type) (2/2)
TUNER assembly (AWZ3694 : HEWZI type) (2/2)



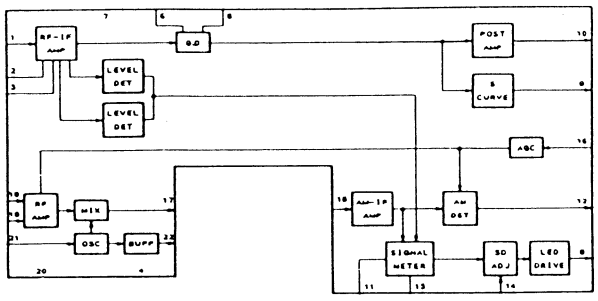
IC201 (PA5008)



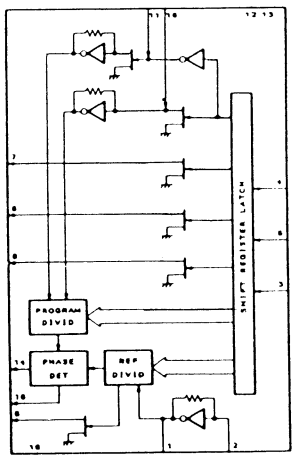
IC231 (PA5007)



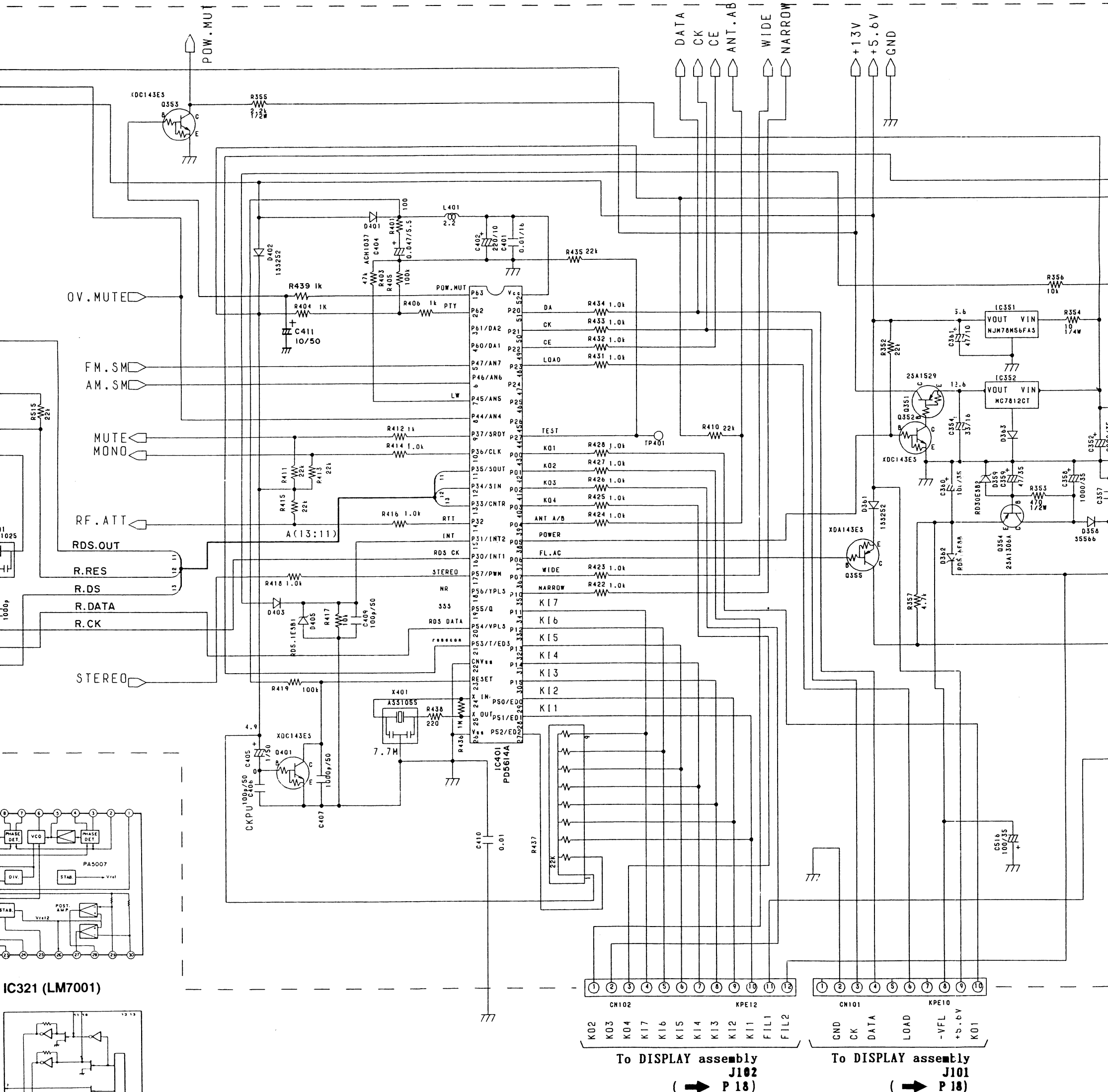
IC301 (LA1265S)



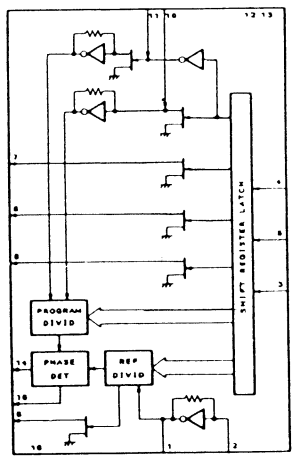
IC321 (LM7001)

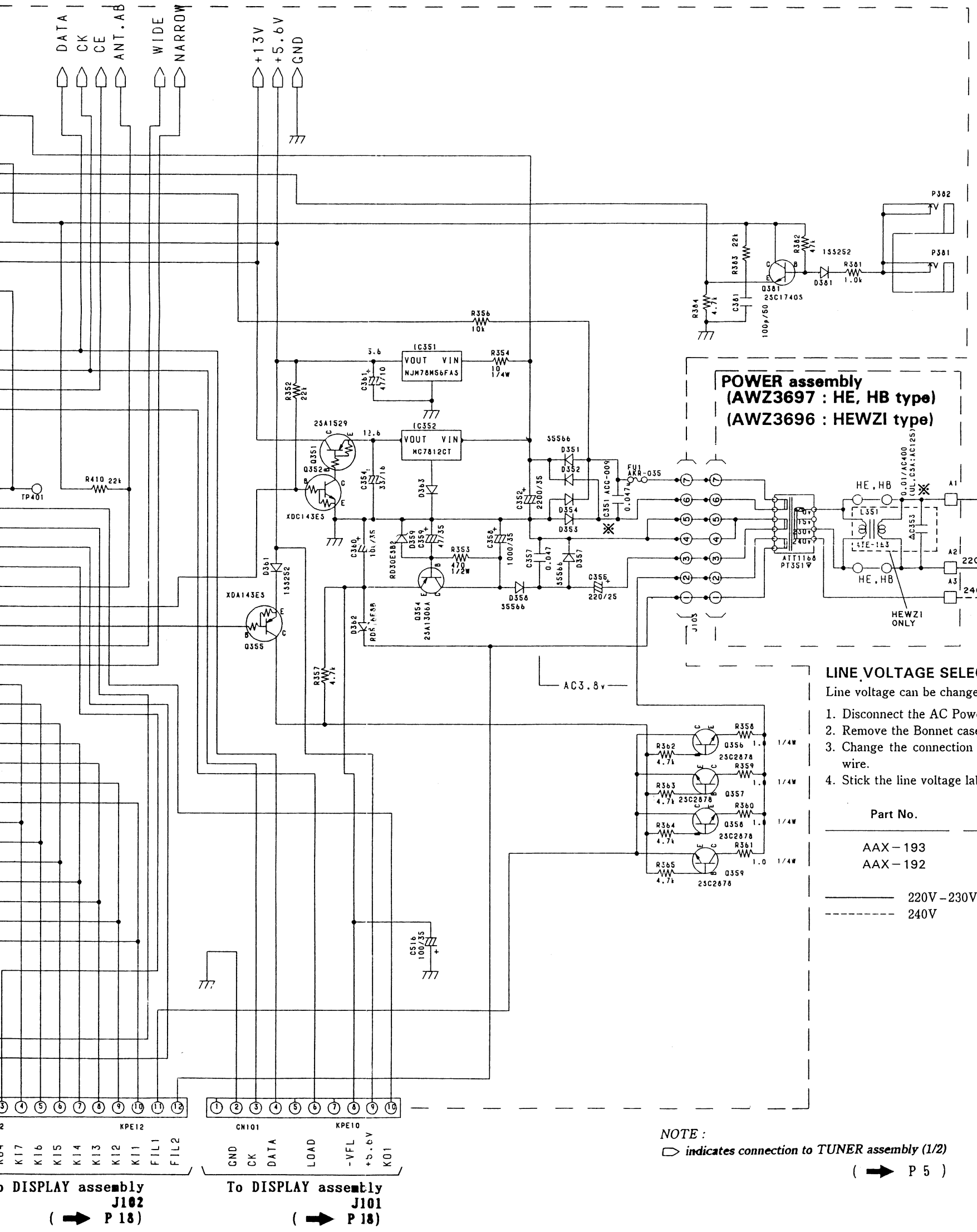


d



IC321 (LM7001)





To DISPLAY assembly J102 (➡ P 18)

To DISPLAY assembly J101 (➡ P 18)

LINE VOLTAGE SELECTION

Line voltage can be changed with the following steps.

1. Disconnect the AC Power cord.
2. Remove the Bonnet case.
3. Change the connection of the power transformer lead wire.
4. Stick the line voltage label on the rear panel.

Part No.	Description
AAX−193	220V label
AAX−192	240V label

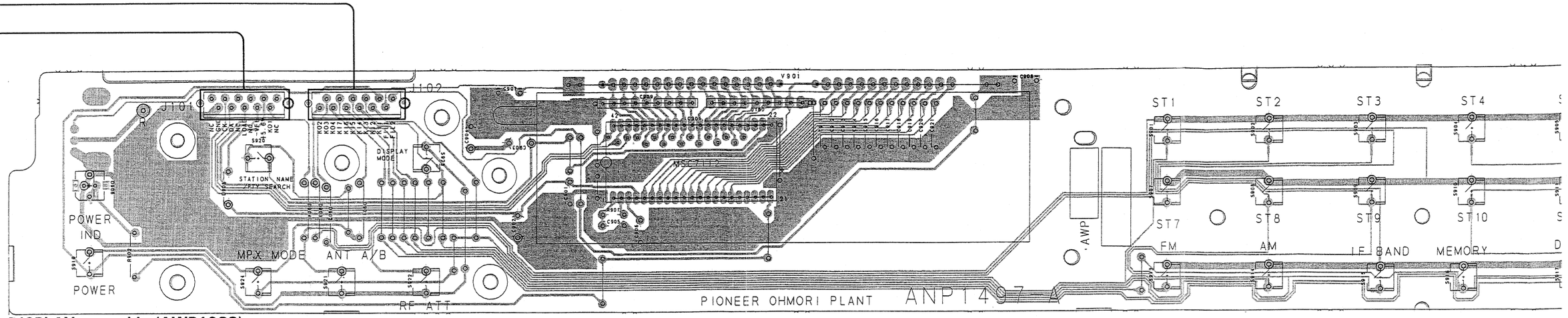
——— 220V−230V
- - - - - - - - - 240V

NOTE :

⬭ *indicates connection to TUNER assembly (1/2)*

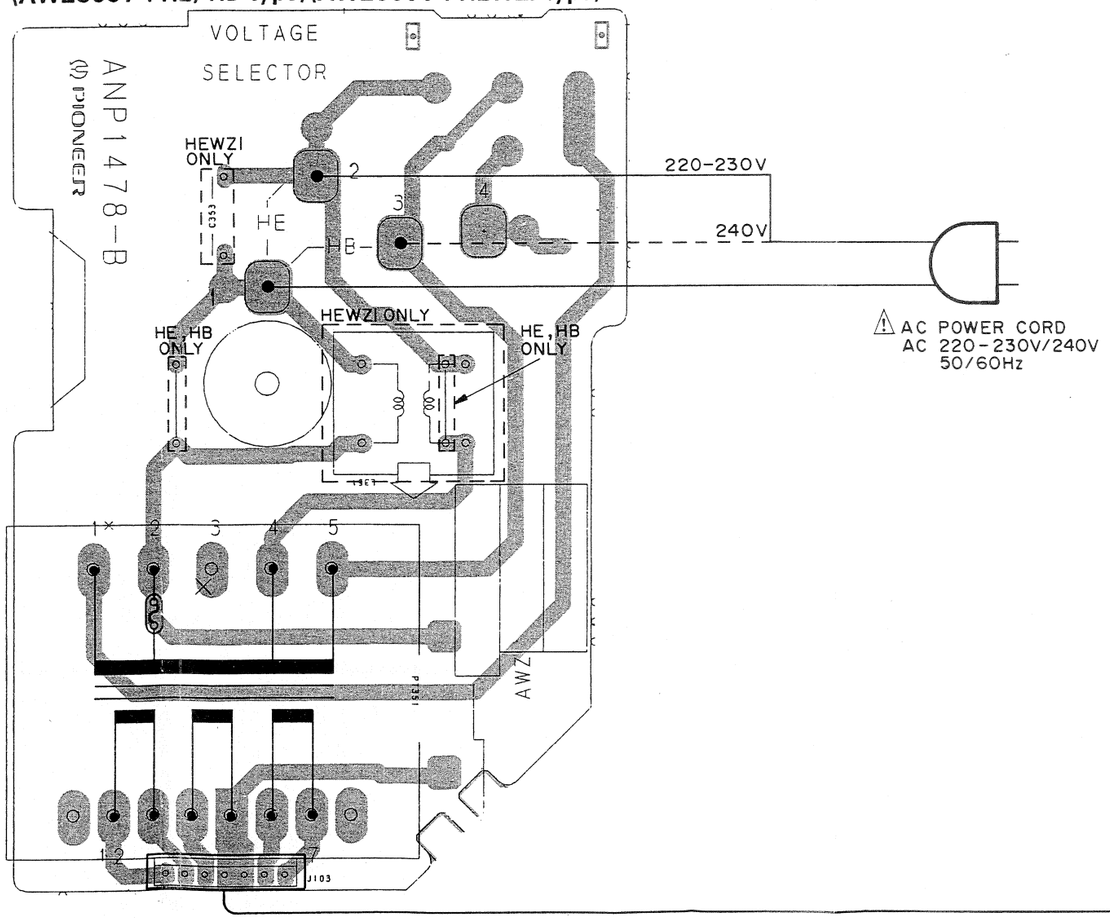
(➡ P 5)

2.3 PCB CONNECTION DIAGRAMS



DISPLAY assembly (AWP1038)

POWER assembly
(AWZ3697 : HE, HB type) (AWZ3696 : HEWZI type)



NOTE

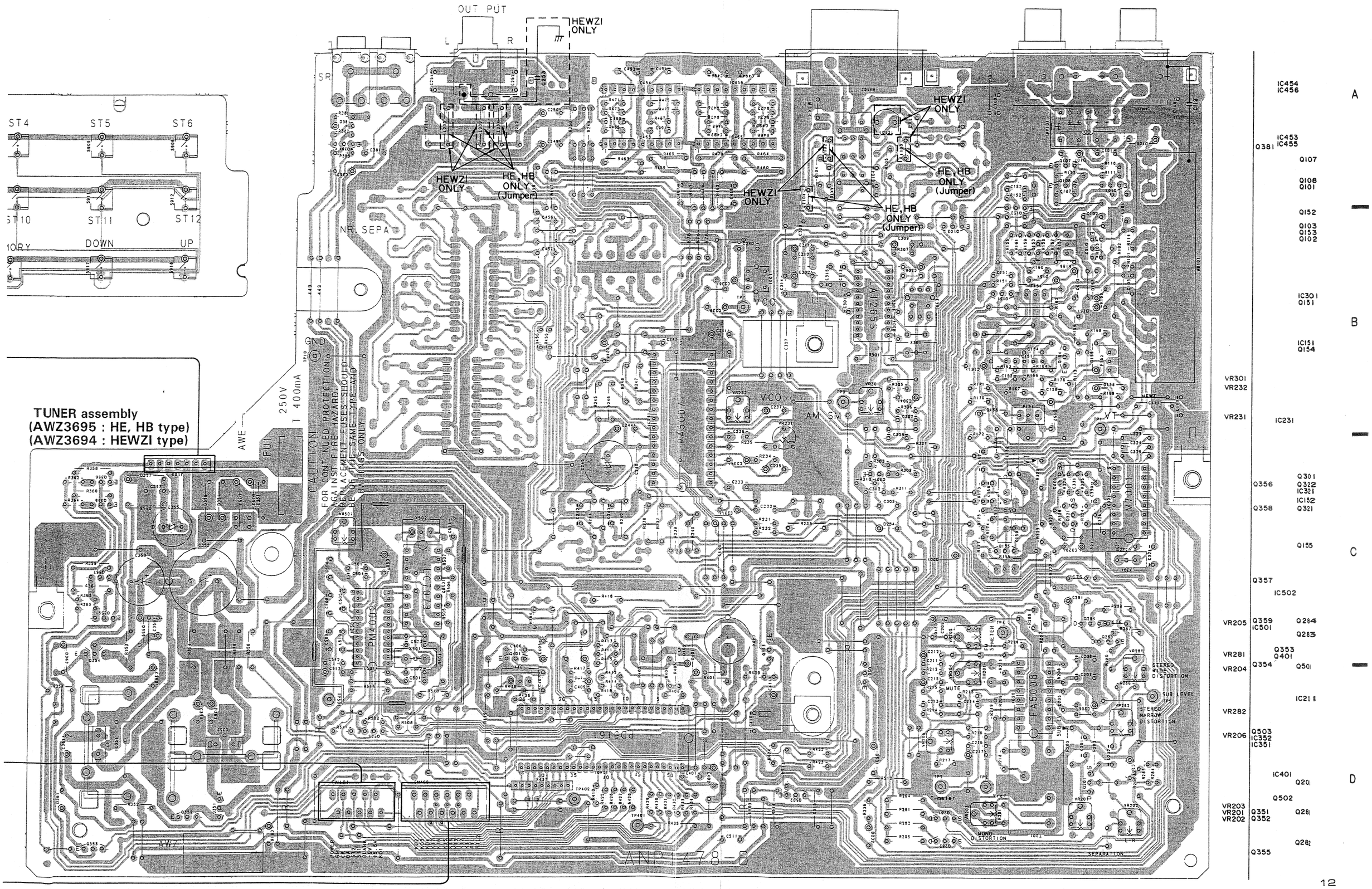
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E C B	E C or E C	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

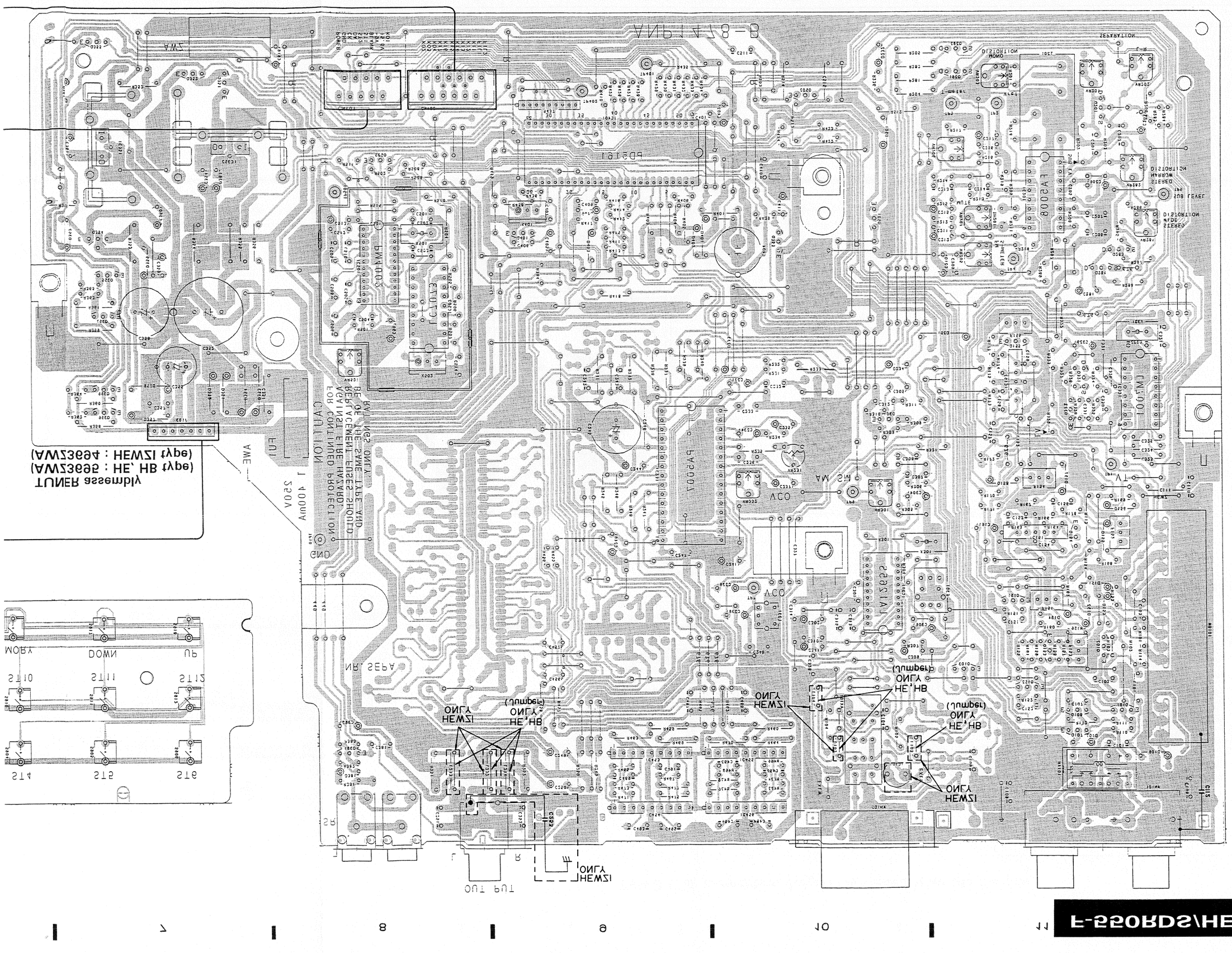
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎ (double circles) shows negatine termianl.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



F-250RDS\HE`HB`HEW2I

TUNER assembly
(AWZ2694 : HE`HB type)
(AWZ2695 : HE`HB`HEW2I type)



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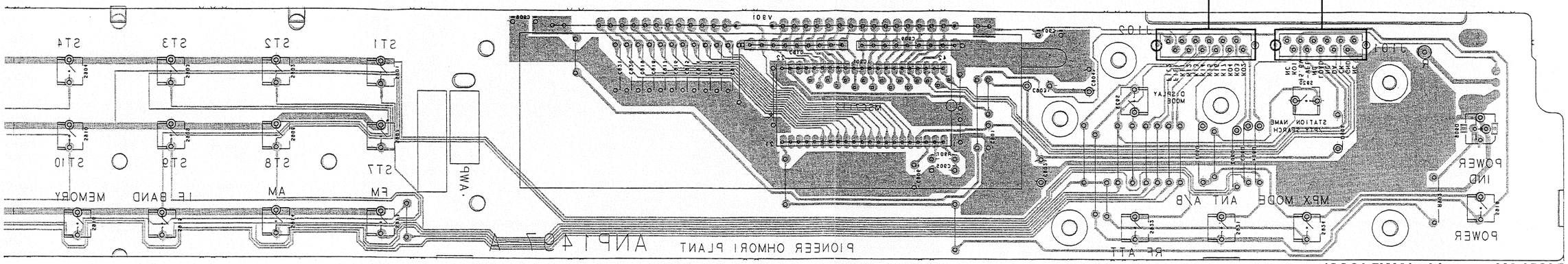
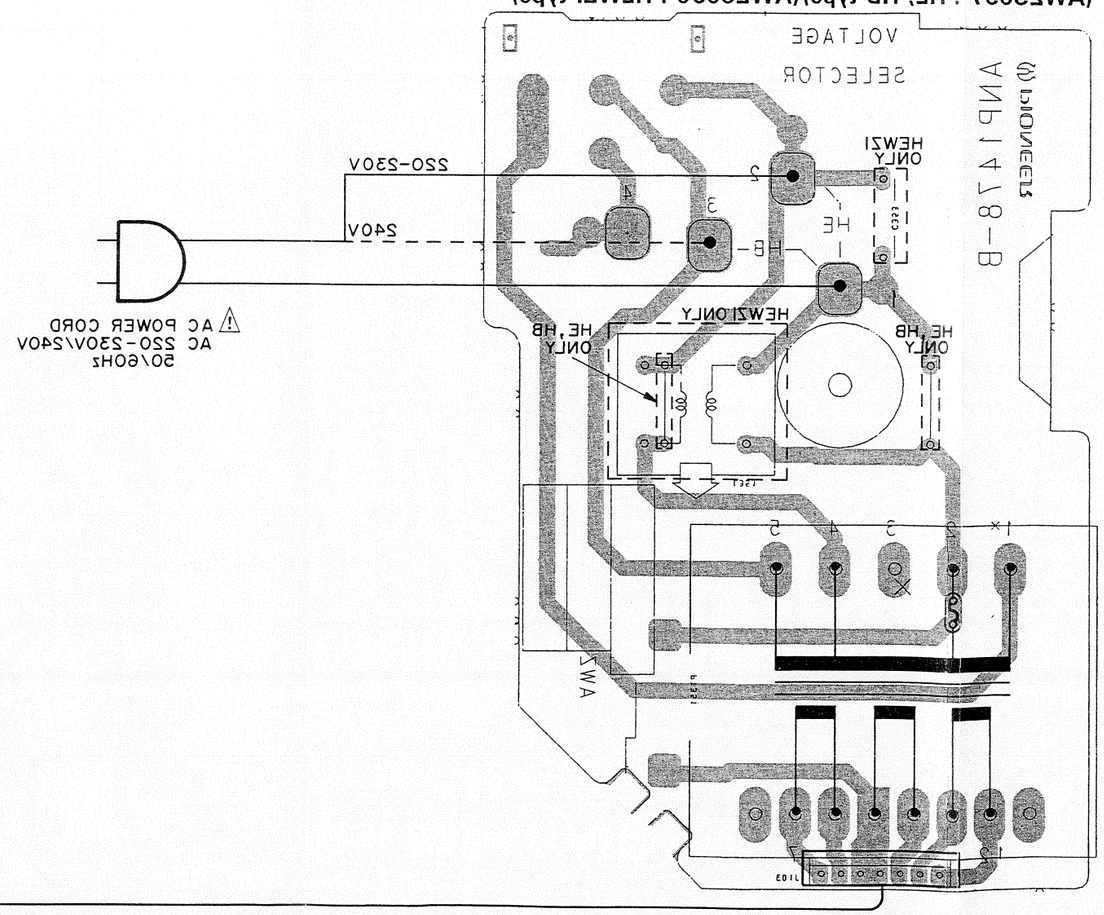
178-184 BOUNDARY ROAD, BRAESIDE, VICTORIA 3195, AUSTRALIA
PIONEER ELECTRONICS DE MEXICO, S.A. DE C.V.
BLVD. MANUEL AVILA CAMACHO 138 10TH FLOOR COL. LOMAS DE CHAPULTEPEC, MEXICO, D.F. 11000

This P.C.B. connection diagram is viewed from the foil side.



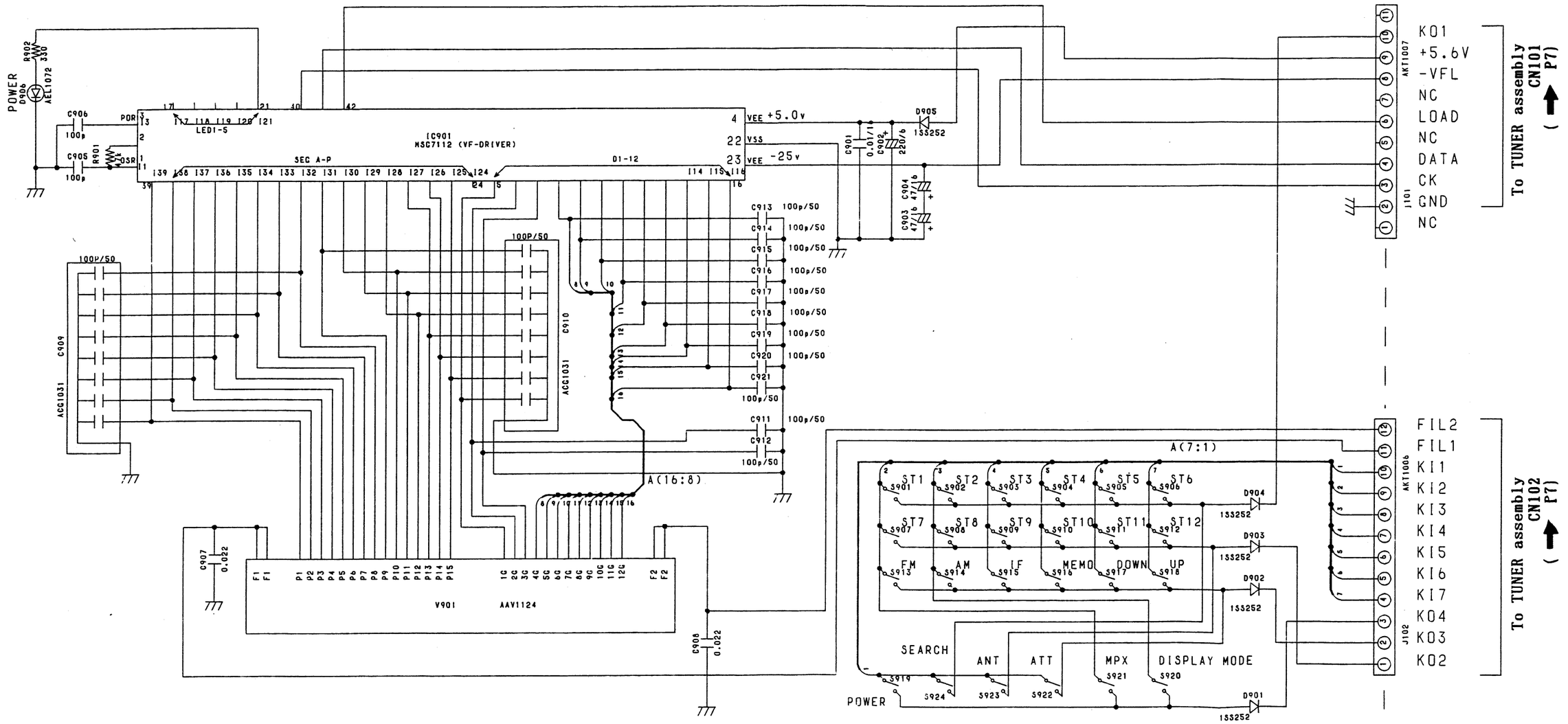
DISPLAY assembly (AWP1038)

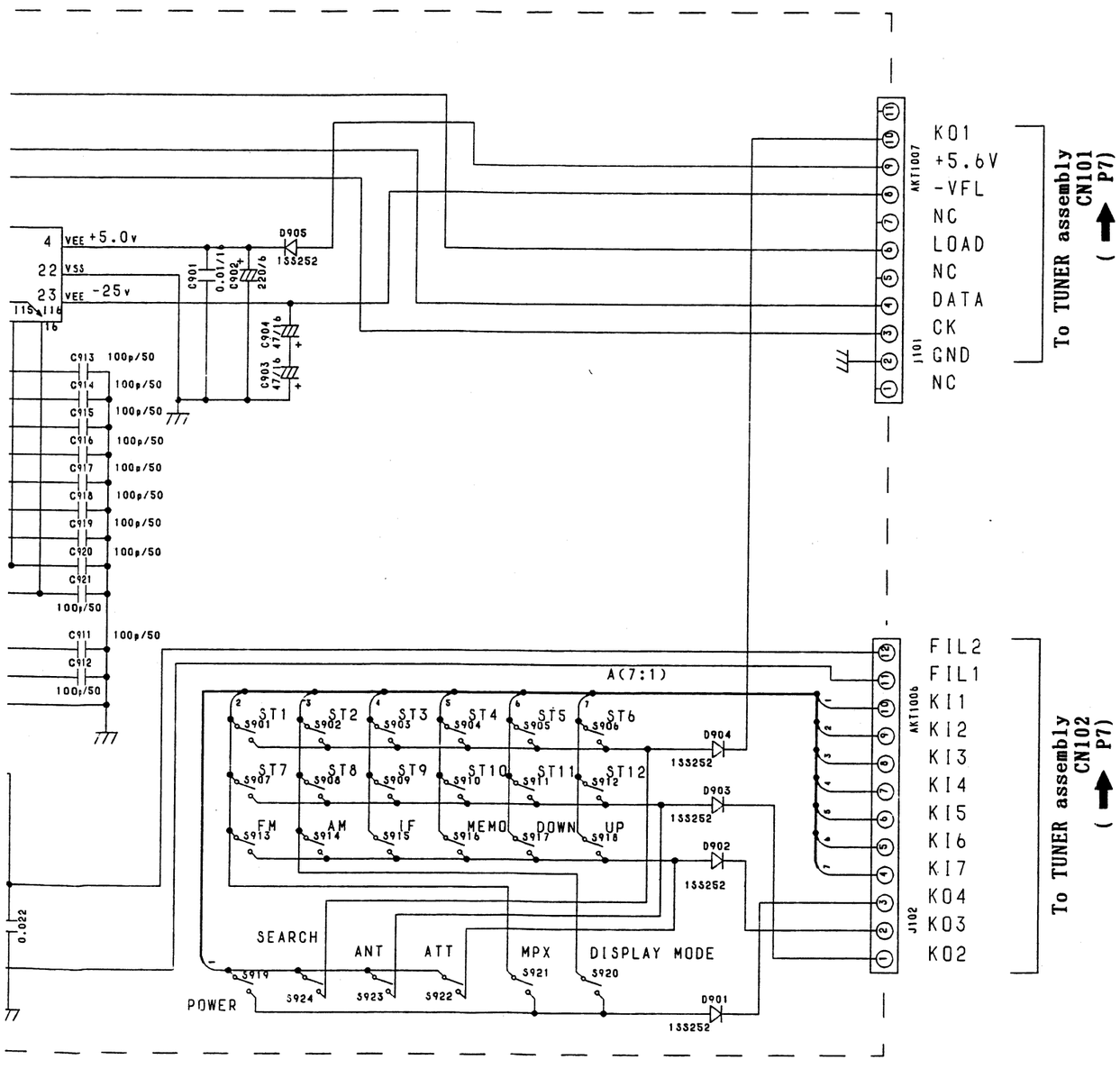
POWER assembly
(AWZ3697 : HE, HB type)(AWZ3696 : HEWZI type)



2.4 SCHEMATIC DIAGRAM OF DISPLAY ASSEMBLY (AWP1038)

DISPLAY assembly (AWP1038)





1. RESISTORS :
Indicated in Ω, 1/4W, 1/8W, ±5% tolerance unless otherwise noted k ; kΩ, M ; MΩ, (F) ; ±1%, (G) ; ±2%, (K) ; ±10%, (M) ; ±20% tolerance.

2. CAPACITORS :
Indicated in capacity (μF) / voltage (V) unless otherwise noted p ; pF.
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE CURRENT :
⬅mA ; DC current at no input signal.
mV ; Signal voltage at FM 400Hz ± 75Hz DEV.
• The table in the margine shows the DC voltage at no signal.

4. OTHERS :
➡ ; Signal route.
⊘ ; Adjusting point.
The ⚠ 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.
※ marked capacitors and resistors have parts numbers.

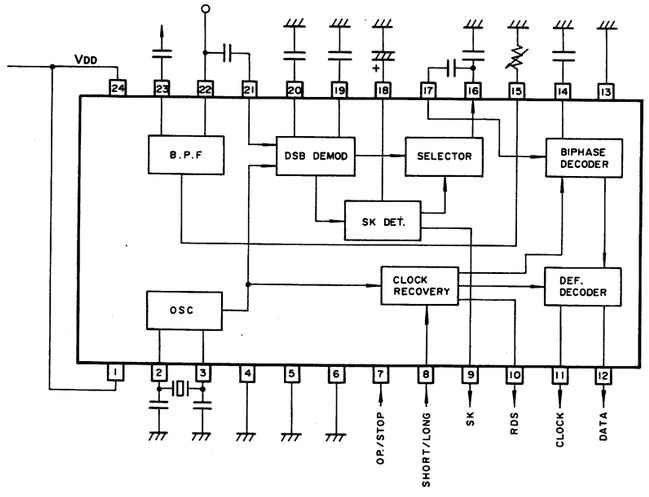
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCHES

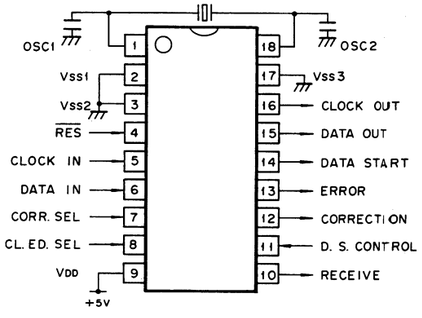
DISPLAY assembly

S901	ST1	S913	FM
S902	ST2	S914	AM
S903	ST3	S915	IF
S904	ST4	S916	MEMO
S905	ST5	S917	DOWN
S906	ST6	S918	UP
S907	ST7	S919	POWER
S908	ST8	S920	DISPLAY MODE
S909	ST9	S921	MPX
S910	ST10	S922	ATT
S911	ST11	S923	ANT
S912	ST12	S924	SEARCH

IC501 (PM4002)



IC502 (LC7073)



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2. CAPACITORS :
Indicated in capacity (μF) / voltage (V) unless otherwise noted p ; pF.
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE CURRENT :
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mV ; Signal voltage at FM 400Hz ± 75Hz DEV.
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This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

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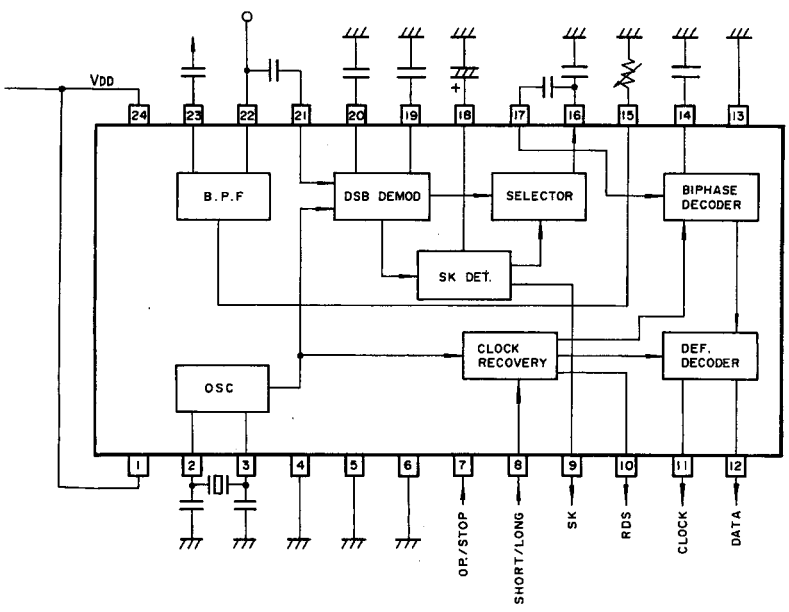
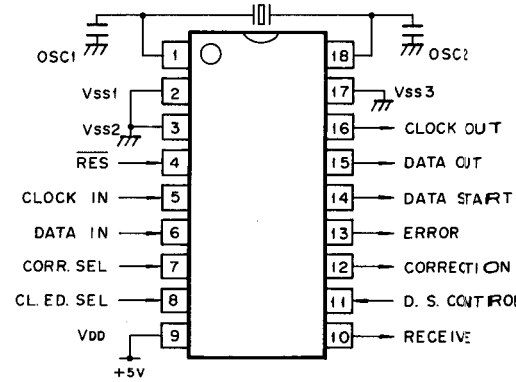
S906	ST6	S918	UP
S907	ST7	S919	POWER
S908	ST8	S920	DISPLAY MODE
S909	ST9	S921	MPX
S910	ST10	S922	ATT
S911	ST11	S923	ANT
S912	ST12	S924	SEARCH

IC501 (PM4002)



IC502 (LC7073)



3. PCB's PARTS LIST

3.1 FOR F-550RDS/HE AND HB TYPES

NOTES:

- *Part without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ 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.*
- *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%).

560Ω	*56 × 10¹*	*561*	*RD1/8PM 5 6 1 J*
47kΩ	*47 × 10³*	*473*	*RD1/4PS 4 7 3 J*
0.5Ω	*0R5*		*RN2H 0 R 5 K*
1Ω	*010*		*RS1P 0 1 0 K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	*562 × 10¹*	*5621*	*RN1/4SR 5 6 2 1 F*

Mark No.	Description	Parts No.
◉ TUNER ASSEMBLY (AWZ3695)		
SEMICONDUCTORS		
IC151, 152	AMPLIFIER IC	TA7060AP
IC201	FM IC	PA5008
IC231	MPX IC	PA5007
IC301	AM/FM IC	LA1265S
IC321	PLL IC	LM7001
IC351	REGULATOR IC	NJM78M56FAS
IC352	REGULATOR IC	MC7812CT
IC401	TUNER CONTROL μ-COM	PD5164A
IC453-456	OP-AMP IC	NJM4558S-X
IC501	RDS	PM4002
IC502	RDS	LC7073
Q101	TRANSISTOR	XDA143ES
Q102	TRANSISTOR	2SC1740S
Q103	TRANSISTOR	XDA143ES
Q107	TRANSISTOR	2SC2705
Q108	TRANSISTOR	2SC2603
Q151, 152	TRANSISTOR	XDA143ES
Q153-155	TRANSISTOR	2SC2668
Q201	N-FET	2SK246
Q281, 282	N-FET	2SK117
Q283, 284	N-FET	2SK246
Q301	TRANSISTOR	2SC1740S
Q321	N-FET	2SK246
Q322	TRANSISTOR	2SC1740SLN
Q351	TRANSISTOR	2SA1529
Q352, 353	TRANSISTOR	XDC143ES
Q354	TRANSISTOR	2SA1306A
Q355	TRANSISTOR	XDA143ES
Q356-359	TRANSISTOR	2SC2878
Q381	TRANSISTOR	2SC1740S
Q401	TRANSISTOR	XDC143ES
Q501	TRANSISTOR	2SA1529
Q502	TRANSISTOR	2SC2668
Q503	TRANSISTOR	XDC124ES
D107	DIODE	1SS252
D108	DIODE	1SV156
D151-158	DIODE	1SS85
D201	DIODE	1SS252
D232-234	DIODE	1SS252
⚠ D351-354	DIODE	S5566
⚠ D357, 358	DIODE	S5566
D359	ZENER DIODE	RD30ESB2
D361	DIODE	1SS252
D362	ZENER DIODE	RD5.6ESB
D363, 381	DIODE	1SS252
D401-403	DIODE	1SS252
D405	ZENER DIODE	RD5.1ESB1
D501	DIODE	1SS252
RELAY		
RY101	RELAY	ASR-087
COILS & TRANSFORMER		
F151	CERAMIC FILTER	ATF-109
F152	CERAMIC FILTER	ATF1094
F153, 154	CERAMIC FILTER	ATF-119
F155	CERAMIC FILTER	ATF1094
F301	CERAMIC FILTER	ATF1042
L101, 152	AXIAL INDUCTOR	LAU2R2M
L231	COIL	ATM1003
L321	AXIAL INDUCTOR	LAU2R2M
L501	AXIAL INDUCTOR	LAU101K
T201	IF TRANSFORMER	ATE-068
CAPACITORS		
C101	CERAMIC CAPACITOR	CKDYX103M25
C102, 103	CERAMIC CAPACITOR	CKPUYY103M16

Mark No.	Description	Parts No.
C104	CERAMIC CAPACITOR	CKDYF473Z50
C106	CERAMIC CAPACITOR	CKDYF223Z50
C107	CERAMIC CAPACITOR	CKPUYY103M16
C108−110	CERAMIC CAPACITOR	CKDYX103M25
C111	CERAMIC CAPACITOR	CKPUYB102K50
C112	CERAMIC CAPACITOR	CKDYX103M25
C151, 152	CERAMIC CAPACITOR	CKDYF223Z50
C153	CERAMIC CAPACITOR	CKDYX473M25
C154	CERAMIC CAPACITOR	CKPUYY103M16
C156, 157	CERAMIC CAPACITOR	CKDYX103M25
C158	CERAMIC CAPACITOR	CKDYX473M25
C159	CERAMIC CAPACITOR	CKPUYY103M16
C201	CERAMIC CAPACITOR	CCMCH150J50
C202	CERAMIC CAPACITOR	CCMCH330J50
C203	ELECTR.CAPACITOR	CEAS010M50
C205	CERAMIC CAPACITOR	CKPUYY103M16
C206	ELECTROLYTIC CAPACIT	CEEA101M16
C207, 208	CERAMIC CAPACITOR	CKDYX473M25
C209	CERAMIC CAPACITOR	CKPUYY103M16
C210	ELECTR.CAPACITOR	CEAS010M50
C211	CERAMIC CAPACITOR	CKPUYY103M16
C212	ELECTR.CAPACITOR	CEAS010M50
C213, 214	CERAMIC CAPACITOR	CKMYB181K50
C215	ELECTR.CAPACITOR	CEAS4R7M50
C216	CERAMIC CAPACITOR	CKPUYY103M16
C217	ELECTROLYTIC CAPACIT	CEEA101M16
C231	ELECTR.CAPACITOR	CEAS220M25
C232	AUDIO FILM CAPACITOR	CFTXA473J50
C233	CERAMIC CAPACITOR	CKDYB152K50
C234	ELECTROLYTIC CAPACIT	CEAS1R5M50
C235	ELECTR.CAPACITOR	CEAS100M50
C236	CKA (390P/50V)	ACG−023
C237	ELECTROLYTIC CAPACIT	CEAS6R8M50
C238, 239	ELECTR.CAPACITOR	CEAS100M50
C240	PL.STYRENE CAPACITOR	CQSA682J50
C241	ELECTR.CAPACITOR	CEAS220M25
C242, 243	MYLOR FILM CAPACITOR	CQMA152J50
C244	ELECTR.CAPACITOR	CEAS470M10
C245	ELECTROLYTIC CAPACIT	CEEA102M16
C246, 247	CERAMIC CAPACITOR	CKPUYY103M16
C248	ELECTROLYTIC CAPACIT	CEEA221M16
C249, 250	ELECTROLYTIC CAPACIT	CEEA4R7M25
C251, 252	CERAMIC CAPACITOR	CKDYB472K50
C281	ELECTR.CAPACITOR	CEAS010M50
C301	CERAMIC CAPACITOR	CKPUYY103M16
C302	ELECTR.CAPACITOR	CEAS330M16

Mark No.	Description	Parts No.
C304	ELECTR.CAPACITOR	CEAS100M50
C305	ELECTR.CAPACITOR	CEANP4R7M35
C306	ELECTR.CAPACITOR	CEAS4R7M50
C307	CERAMIC CAPACITOR	CKDYB222K50
C308	CERAMIC CAPACITOR	CKDYX473M25
C309	CERAMIC CAPACITOR	CKDYF223Z50
C310	CERAMIC CAPACITOR	CKPUYY103M16
C311	ELECTR.CAPACITOR	CEAS470M10
C312	CERAMIC CAPACITOR	CKPUYY103M16
C313	CERAMIC CAPACITOR	CKDYF223Z50
C314	CERAMIC CAPACITOR	CKPUYY103M16
C315	CERAMIC CAPACITOR	CKDYF223Z50
C321, 322	CERAMIC CAPACITOR	CCMCH150J50
C323−325	AXIAL CERAMIC C.	CCPUSL470J50
C326, 327	CERAMIC CAPACITOR	CKPUYY103M16
C328	AXIAL CERAMIC C.	CCPUSL470J50
C329	ELECTR.CAPACITOR	CEAS330M16
C330	AUDIO FILM CAPACITOR	CFTXA224J50
C331	CERAMIC CAPACITOR	CKPUYY103M16
⚠ C351	CAPACITOR (0.047μ)	ACG−009−0
C352	ELECTROLYTIC CAPACIT	CEEA222M35
C354	ELECTR.CAPACITOR	CEAS330M16
C355	ELECTR.CAPACITOR	CEAS221M25
C357	CERAMIC CAPACITOR	CKDYF473Z50
C358	ELECTROLYTIC CAPACIT	CEAS102M35
C359	ELECTROLYTIC CAPACIT	CEAS470M35
C360	ELECTR.CAPACITOR	CEAS101M35
C361	ELECTR.CAPACITOR	CEAS470M10
C381	CERAMIC CAPACITOR	CKPUYB101K50
C401	CERAMIC CAPACITOR	CKPUYY103M16
C402	ELECTR.CAPACITOR	CEAS221M10
C404	CEA (47000/5.5V)	ACH1037
C405	ELECTR.CAPACITOR	CEAS010M50
C406	CERAMIC CAPACITOR	CKPUYB101K50
C407	CERAMIC CAPACITOR	CKPUYB102K50
C409	CERAMIC CAPACITOR	CKPUYB101K50
C410	CERAMIC CAPACITOR	CKDYX103M25
C411	ELECTR.CAPACITOR	CEAS100M50
C456, 457	ELECTROLYTIC CAPACIT	CEEANP4R7M25
C487−496	MYLOR FILM CAPACITOR	CQMA103J50
C501	CERAMIC CAPACITOR	CKPUYY103M16
C502, 503	CERAMIC CAPACITOR	CCDCH120J50
C504	CERAMIC CAPACITOR	CKDYX103M25
C505	CERAMIC CAPACITOR	CKDYX473M25
C506	CERAMIC CAPACITOR	CKDYX223M25
C507	ELECTR.CAPACITOR	CEAS2R2M50
C508, 509	CERAMIC CAPACITOR	CKDYB332K50
C510, 511	CERAMIC CAPACITOR	CKDYB472K50
C512	CERAMIC CAPACITOR	CKPUYY103M16
C513	ELECTR.CAPACITOR	CEAS471M10

Mark No.	Description	Parts No.
C514	CERAMIC CAPACITOR	CKDYB102K50
C515	CERAMIC CAPACITOR	CKPUYY103M16
C516	ELECTR.CAPACITOR	CEAS101M35
RESISTORS		
VR201, 202	VR	ACP1042
VR203	VR	ACP1040
VR204	VR	ACP1043
VR205	VR	ACP1046
VR206	VR	ACP1038
VR231	VR	VRTS6VS222
VR232, 281	VR	ACP1044
VR282, 301	VR	ACP1043
VR501	VR	ACP1045
R102	CARBON FILM RESISTOR	RD1/2PM751J
R202, 203	CARBON FILM RESISTOR	RDR1/4PM103J
R204, 205	CARBON FILM RESISTOR	RDR1/4PM332J
R235	METALFILM RESISTER	RN1/4PQ5601F
R237, 238	CARBON FILM RESISTOR	RDR1/4PM223J
R241, 242	CARBON FILM RESISTOR	RDR1/4PM333J
R245, 246	CARBON FILM RESISTOR	RDR1/4PM333J
R247–250	CARBON FILM RESISTOR	RDR1/4PM102J
R251, 252	CARBON FILM RESISTOR	RDR1/4PM152J
R281, 282	CARBON FILM RESISTOR	RDR1/4PM331J
R353	CARBONFILM RESISTOR	RD1/2PM471J
R354	FUSLIBLE RESISTOR	RFA1/4PS100J
R355	CARBON FILM RESISTOR	RD1/2PM222J
R358–361	CARBON FILM RESISTOR	RD1/4PM010J
R437	RESISTOR ARRAY(22K)	RA8T223J
R455, 456	CARBON FILM RESISTOR	RDR1/6PU103J
R457, 458	CARBON FILM RESISTOR	RDR1/4PM122J
R459, 460	CARBON FILM RESISTOR	RDR1/4PM132J
R461–464	CARBON FILM RESISTOR	RDR1/4PM361J
R465, 466	CARBON FILM RESISTOR	RDR1/6PU122J
R467, 468	CARBON FILM RESISTOR	RDR1/6PU102J
R469, 470	CARBON FILM RESISTOR	RDR1/4PM181J
R471–478	CARBON FILM RESISTOR	RDR1/6PU102J

Mark No.	Description	Parts No.
	Other resistors	RD1/8PM□□□J
OTHERS		
	PIN JACK 2P (OUTPUT)	AKB1039
	TERMINAL 2–P (ANTENNA)	AKE–060
	JACK (CONTROL)	AKN–207
	SOCKET (ANTENNA FM)	AKX1034
	4 SERIAL F.E. MODULE ASSEMBLY	AXQ1004
	AM RF TUNING BLOCK	AXX1011
CN101	CONNECTOR(10P)	KPE10
CN102	CONNECTOR(12P)	KPE12
X301	CERAMIC RESONATOR	ATF1027
X321	CRYSTAL RESONATOR	ASS1005
X401	CERAMIC RESONATOR	ASS1055
X501	CRYSTAL RESONATOR	ASS1061
X502	CERAMIC RESONATOR	ASS1025
TH201	THERMISTOR	TH103–2

◉ POWER ASSEMBLY (AWZ3697)

TRANSFORMER

⚠	T351	POWER TRANSFORMER	ATT1168

DISPLAY ASSEMBLY (AWP1038)

SEMICONDUCTORS

IC901	FL DRIVER IC	MSC7112–01SS
D901–905	DIODE	1SS252
D906	LED	AEL1072

SWITCHES

S901–924	SWITCH	ASG1034

CAPACITORS

C901	CERAMIC CAPACITOR	CKPUYY103M16
C902	ELECTR.CAPACITOR	CEJA221M6
C903, 904	ELECTROLYTIC CAPACIT	CEJA470M16
C905, 906	CERAMIC CAPACITOR	CKPUYB101K50
C907, 908	CERAMIC CAPACITOR	CKDYF223Z50
C909, 910	CAPACITOR ARRAY (100p/50)	ACG1031
C911–921	CERAMIC CAPACITOR	CKPUYB101K50

RESISTORS

	All resistors	RD1/8PM□□□J

OTHERS

V901	FL TUBE	AAV1124

3.2 FOR F-550RDS/HEWZI TYPE

NOTES:

- *Part without part number cannot be supplied.*
- *The ⚠ 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.*

◉ TUNER assembly (AWZ3694)

The TUNER assembly (AWZ3694) is the same as the TUNER assembly (AWZ3695) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3695	AWZ3694	
	L102-L104	.....	LAU220K	
	L232	.....	LAU010M	
	L233, L234	.....	LAU100K	
	TC101	.....	ACM-018	
	C253	.....	CKDYX103M25	
	R153, R154, R162	RD1/8PM102J	RD1/8PM471J	
	R247, R248	RD1/8PM102J	RDR1/4PM822J	
	R249, R250	RDR1/4PM102J	RDR1/4PM821J	
	R251, R252	RDR1/4PM152J	RDR1/4PM222J	
	AM RF Tuning block	AXX1011	AXX1014	

◉ POWER assembly (AWZ3696)

The POWER assembly (AWZ3696) is the same as the POWER assembly (AWZ3697) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3697	AWZ3696	
⚠	L351	.....	ATF-163	
⚠	C353 (0.01/AC400V)	.....	ACG1002	

4. ADJUSTMENTS

The F – 550RDS/HE, HB and HEWZI types are the same as the F – 676/HEWZ type with the exception of the following sections.

4.1 FM MONO

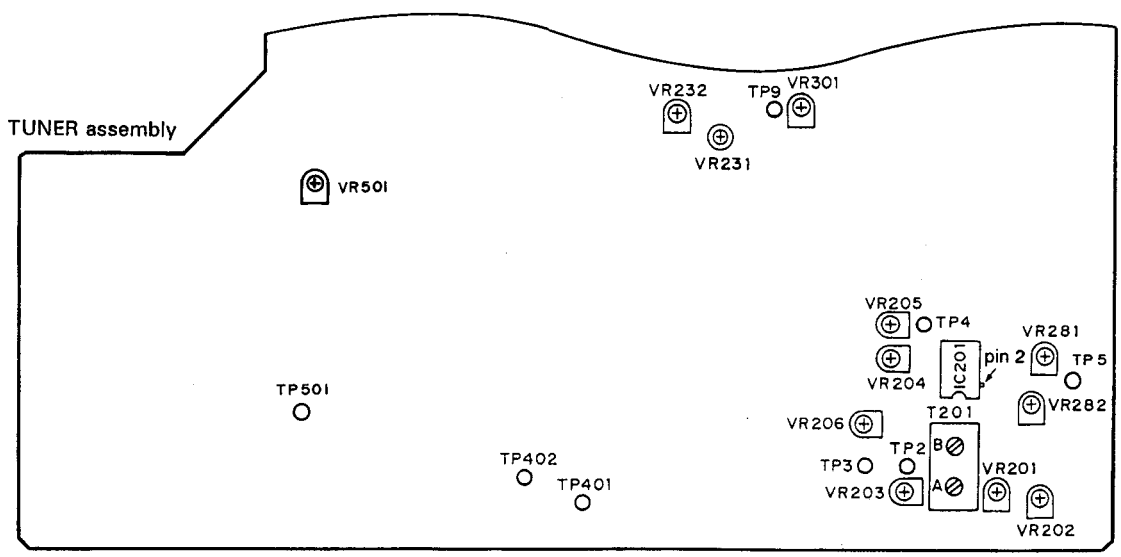
Step	Adjustment Name	FM SG (1kHz±75kHz dev.)			FL display, IF BAND etc.	Location	Adjustment	Content of change
		Frequency	Modulation	Level				
3	Sub-balance adjustment	98MHz	MONO	60dBμ	98MHz NORMAL	VR206	Adjust so that the AC voltage at TP5 becomes minimum.	Adjustment ; IC201 → TP5

4.2 FM STEREO

Step	Adjustment Name	FM SG (1kHz±75kHz dev.)			FL display, IF BAND etc.	Location	Adjustment	Content of change
		Frequency	Modulation	Level				
7	Noise reduction adjustment	89MHz	L-ONLY	60dBμ	89MHz NORMAL MPX NR : ON/OFF	VR451	Adjust so that the output level, when ON, becomes $+1^{+0.5}_{-0.5}$dB when the MPX NR of the main unit is OFF.	Deleted.

4.3 FM ETC

Step	Adjustment Name	FM SG (1kHz±75kHz dev.)			FL display, IF BAND etc.	Location	Adjustment	Content of change
		Frequency	Modulation	Level				
3	SK level adjustment	88MHz	RF SG (External)	60dBμ	88MHz NORMAL (ATT ON)	VR501	Adjust so that the voltage between TP501 (57kHz) and GND becomes maximum.	Added.



Adjustment Point