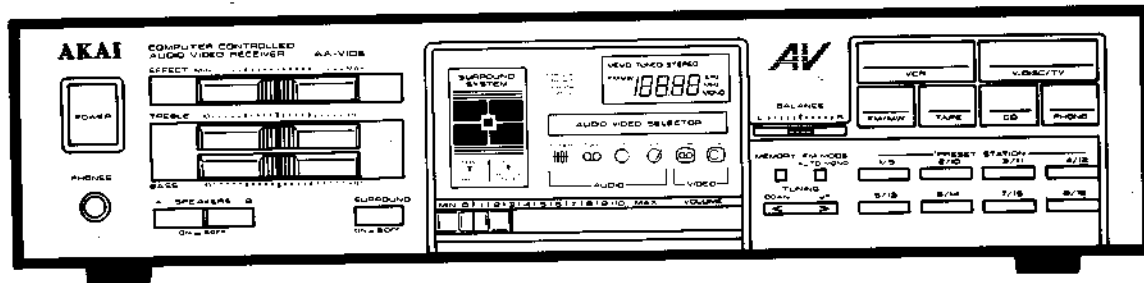


AKAI SERVICE MANUAL



AUDIO VIDEO RECEIVER

MODEL AA-V105/L

SPECIFICATIONS

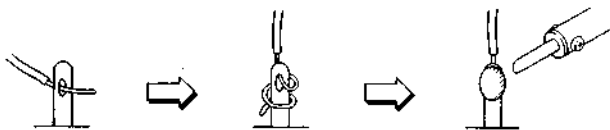
Power amplifier section		FM Tuner section	
Power output		Tuning frequency range	87.5 MHz to 108.0 MHz
40 Hz to 20 kHz	35 W/0.3% at 8 ohms	Usable sensitivity	12.7 dBf
Music power (Both channels)	200 W	Quieting sensitivity (IHF)	19.2 dBf (Mono)/40.2 dBf (Stereo) (S/N = 50 dB)
Power bandwidth		Capture ratio	2.0 dB
(IHF - 3dB, 8 ohms)	5 Hz to 40 kHz (0.5%)	Selectivity (400 kHz)	60 dB
S/N		Image rejection	50 dB
PHONO	70 dB	IF rejection	80 dB
CD, TAPE	90 dB	Spurious rejection	80 dB
Residual noise (8 ohms)	0.5 mV	AM suppression	50 dB
Channel separation		Sub carrier suppression	55 dB
(IHF, 1 kHz)	55 dB	S/N (IHF)	70 dB (Mono)/60 dB (Stereo)
Damping factor		Harmonic distortion	0.2% (Mono)/0.4% (Stereo)
(1 kHz, 8 ohms)	30	Stereo separation (1 kHz)	40 dB
Output		Frequency response	30 Hz to 15 kHz \pm 1.0 dB
Speaker		AM Tuner section	
A or B	8 to 16 ohms	AM tuner section	LW tuner section
A + B	16 ohms	(MW for AA-V105L)	(for AA-V105L)
SURROUND	8 ohms (Canada model not equipped)	Tuning frequency range	531 kHz to 1,602 kHz 146 kHz to 353 kHz
Pre amplifier section		Usable sensitivity	
Input sensitivity/Impedance		(Loop antenna)	300 μ V/m 800 μ V/m
PHONO (MM)	2.0 mV/47 kohms	Selectivity	30 dB 40 dB
CD, TAPE	150 mV/47 kohms	Image rejection	45 dB 45 dB
V. DISC/VCR (Audio)	150 mV/47 kohms	IF rejection	35 dB 35 dB
V. DISC/VCR (Video)	1Vp-p/75 ohms	S/N	40 dB 35 dB
Output level/Impedance		T.H.D.	1.0% 2.0%
TAPE REC.	150 mV/1 kohms	Power requirements	220V, 50 Hz for Europe except UK 240V, 50 Hz for UK & Australia 110V/120V/220V/240V, 50 Hz/60 Hz convertible for other countries
VCR (Audio)	150 mV/1 kohms	Dimensions	440(W) x 100(H) x 277(D) mm (17.3 x 3.9 x 10.9 inches)
MONITOR/VCR (Video)	1Vp-p/1 kohms	Weight	5.4 kg (11.9 lbs)
Frequency response			
PHONO (RIAA)	+0.5 dB		
AUX/TAPE	5 Hz to 80 kHz - 3 dB		
Tone control			
BASS	\pm 8 dB (100 Hz)		
TREBLE	\pm 8 dB (10 kHz)		
Phono max. input level			
(1 kHz)	120 mV		

* For improvement purposes, specifications and design are subject to change without notice.

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

- Parts identified by the Δ symbol parts are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
- Use specified internal wiring. Note especially:
 - Wires covered with PVC tubing
 - Double insulated wires
 - High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - Insulation Tape
 - PVC tubing
 - Spacers (Insulating Barriers)
 - Insulation sheets for transistors
 - Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- Check that replaced wires do not contact sharp edged or pointed parts.
- Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

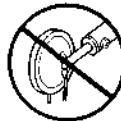
SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for **[C]** or **[A]**, specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTION FOR THE LITHIUM BATTERY

The LITHIUM BATTERY employed for memory Back up has a explosive probability when the BATTERY itself is excessive heated.

IN CASE OF REPLACING: RESOLDER and SOLDER AS RECOMMENDED WAY.



(DANGER)



(RECOMMENDED WAY)

INFORMATION

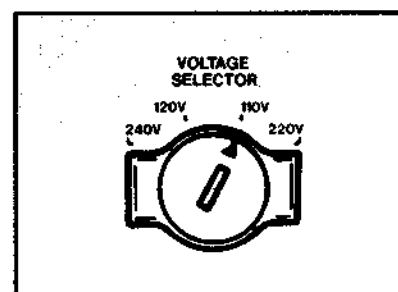
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
[A]	USA
[B]	UK
[C]	Canada
[E]	Europe (except UK)
[J]	Japan
[S]	Australia
[V]	W. Germany only
[U]	Universal Area
[Y*]	Custom version

VOLTAGE CONVERSION (**[U]** Model only)

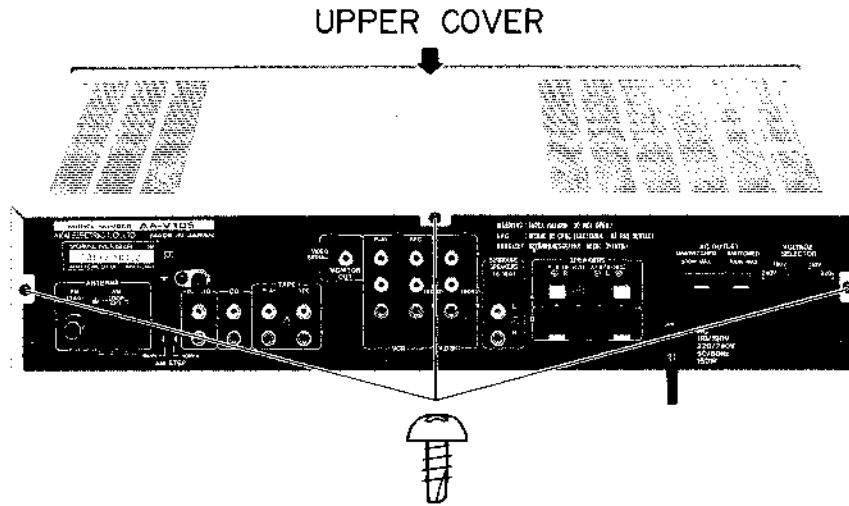
Before connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



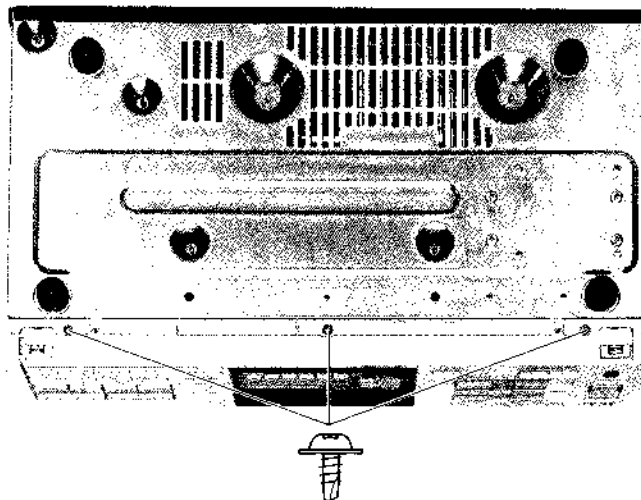
I. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

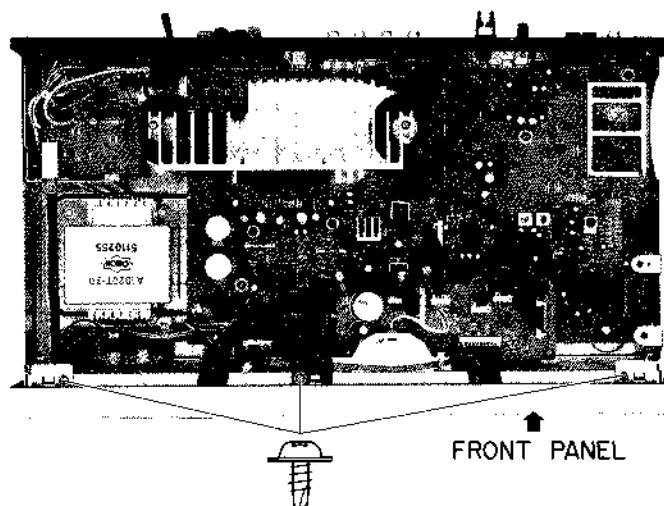
1 REMOVAL UPPER COVER



2 REMOVAL FRONT PANEL



3



II. CONTROLS

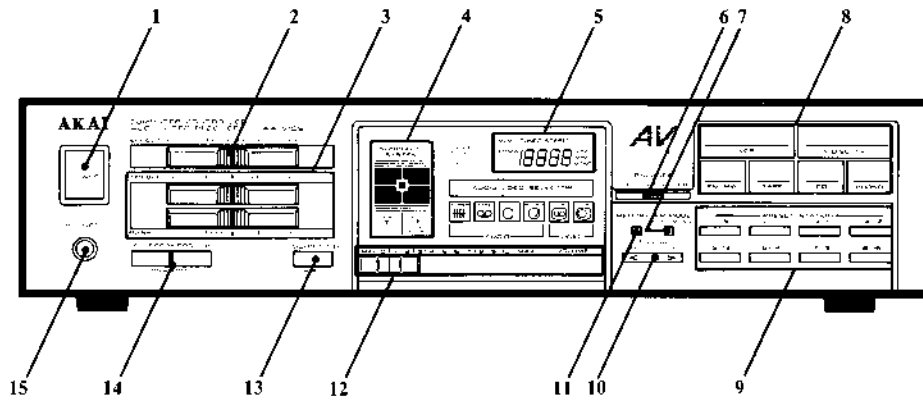


Fig. 2-1 Front View

- 1. POWER switch**
To turn ON and OFF the Akai AA-V105
- 2. EFFECT Control**
Use to control the level of the surround speakers.
- 3. BASS and TREBLE controls**
To adjust the bass and treble responses.
- 4. Surround ON display**
Lights when the SURROUND button is depressed.
- 5. TUNER Display**
LC display shows the Band, Frequency, STEREO, MONO, and MEMO
- 6. BALANCE Control**
To adjust the left and right channel balance
- 7. FM MODE switch**
Use this switch for Monaural reception of FM Stereo stations
- 8. AV Source Selectors**
Use these selectors to choose the audio or video source for playback and recording purposes
- 9. CHANNEL (1-8/9-16) Buttons**
Use these buttons to memorize and recall preset stations
- 10. TUNING UP(▲) DOWN (▼) Control**
Use it to tune in radio frequencies
- 11. MEMORY button**
Use it when memorizing radio stations with the preset station buttons
- 12. VOLUME Control**
To adjust the volume level
- 13. SURROUND switch**
Depress it to activate the SURROUND speaker system.
- 14. SPEAKERS ON ()/OFF () switches**
To turn A and B speaker systems ON and OFF
- 15. PHONES jack**
For connection of headphones

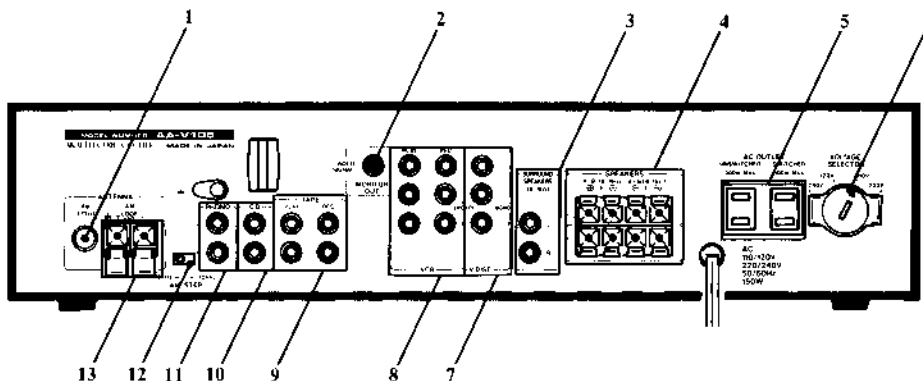


Fig. 2-2 Rear View

- 1. FM Antenna jack**
Connect the standard accessory T-shaped FM antenna to the FM (75 Ω) jack, and tack it up on a wall.
- 2. MONITOR OUT jacks**
- 3. SURROUND SPEAKERS Terminals**
Insert the (optional) AE-S90 Surround Speaker input plugs into the Left and Right SURROUND SPEAKER terminals.
Note
Do not connect an amplifier or other speaker system to these terminals.
- 4. SPEAKER Terminals**
Be sure to connect:
+ wires to + terminals;
- wires to - terminals;
Left speaker to the Left (L) terminals; and Right speaker to the Right (R) terminals.
Strip off 1 cm of vinyl covering from the ends of the speaker wires, then connect as follows:

A Terminals

With the speaker tab open (up), insert the speaker wire fully into the terminal. Push the speaker tab down so that the grip on the wire is firm. Pull the speaker wire gently to make sure that it is secure.

B Terminals

With the speaker tab open (down), insert the speaker wire fully into the terminal. Push the speaker tab back up so that the grip on the wire is firm. Pull the speaker wire gently to make sure that it is secure.

5. AC OUTLETS (Not on some models)

Use these outlets for connection of the components connected to the Akai AA-V105.

UNSWITCHED:

The power to this AC outlet is maintained even when the Akai AA-V105 is turned off. Make sure that the power consumption of the component connected to this outlet does not exceed 300 watts.

SWITCHED:

The power to this AC outlet is cut when the Akai AA-V105 is turned off. Make sure that the total power consumption of the component connected to this outlet does not exceed 100 watts.

III. PRINCIPAL PARTS LOCATION

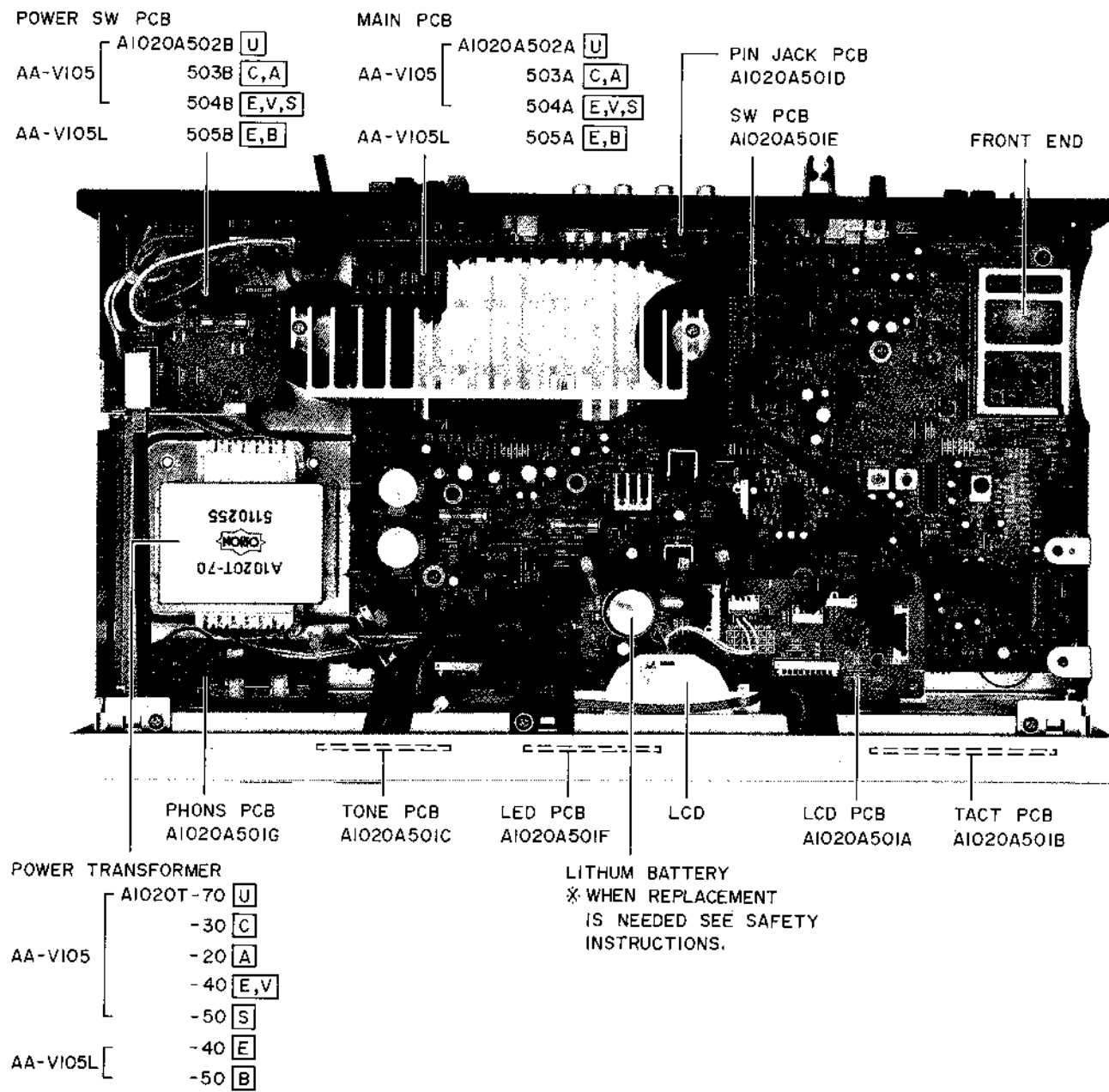


Fig. 3-1

IV. ADJUSTMENT

4-1. INSTRUMENT CONNECTIONS

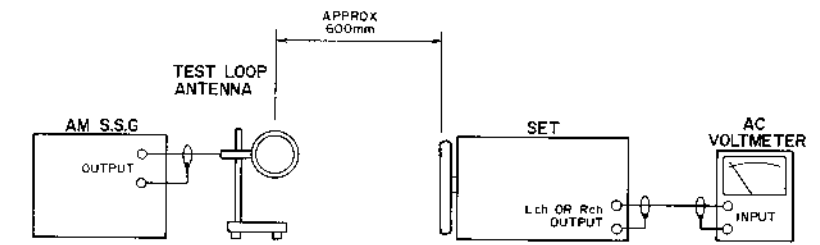


Fig. 4-1 Instrument Connections for AM (MW, LW) Section Adjustment

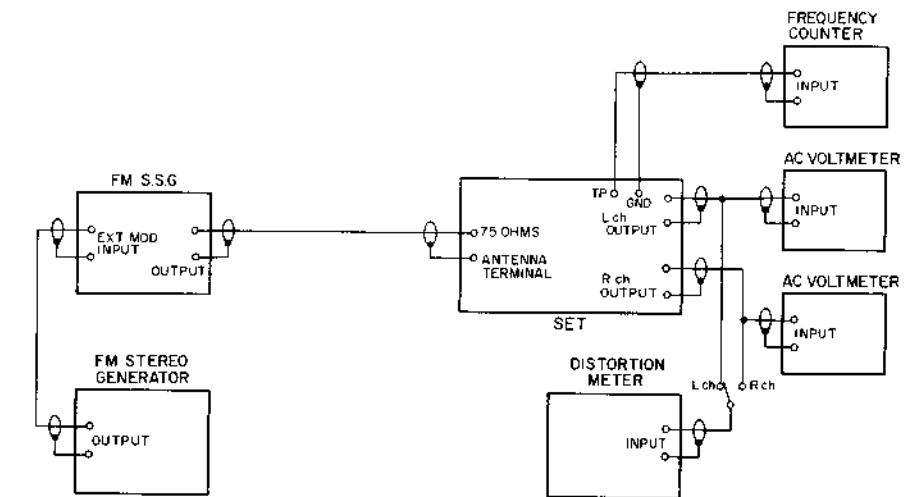
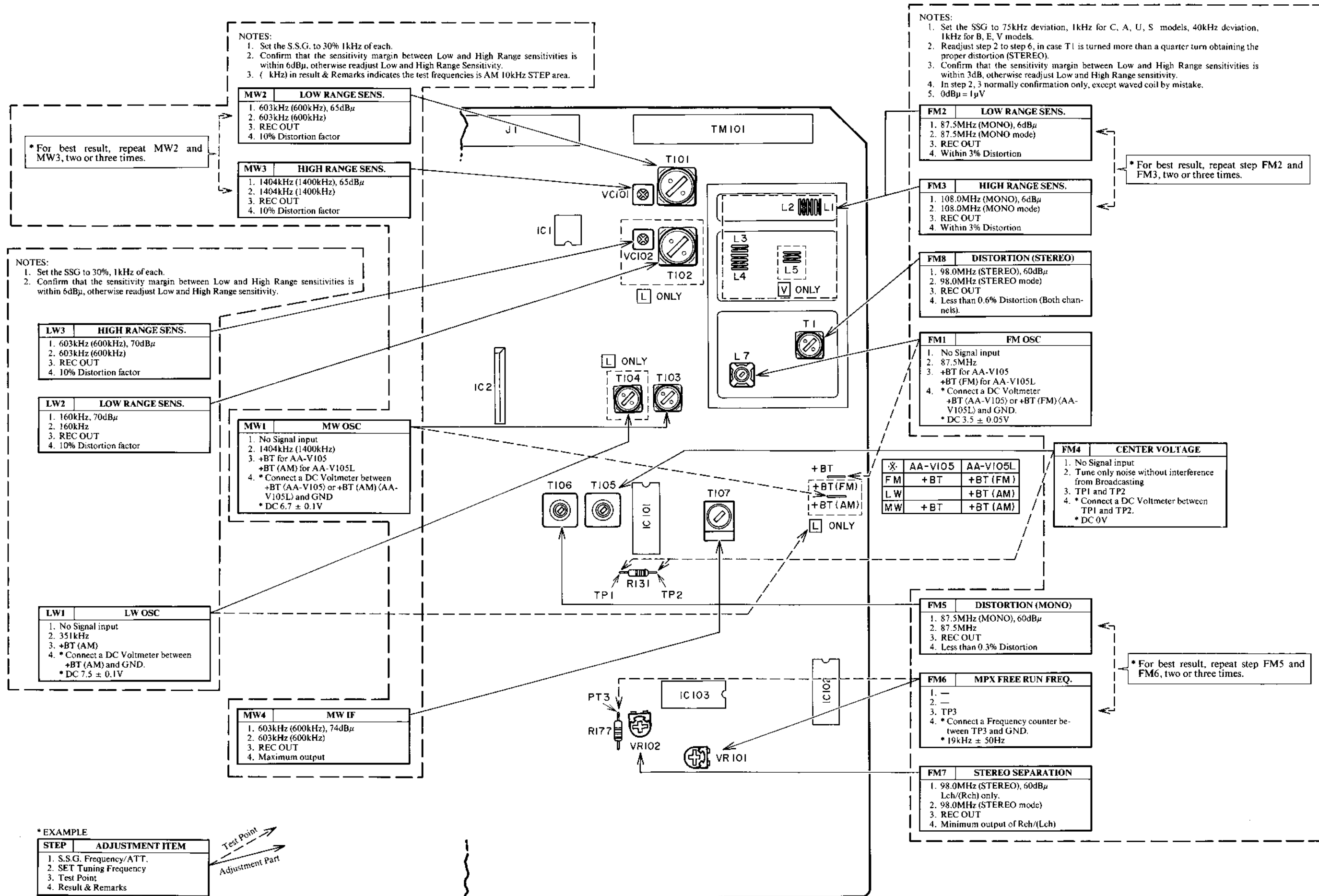


Fig. 4-2 Instrument Connection for FM Section Adjustment

4-2. MAIN PC BOARD Adjustment



V. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering.
If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

b) PC Board

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1X	BH-T2023A320A	HEAD BASE BLOCK
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

A small "x" indicates that this part is not shown in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure.

This number corresponds with the Figure Number.

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
6-C1B	EC-350949	C MMY V 223M 250DC [J]
6-C1C	EC-338397	C MMY V 223M 125AC [C,A]
6-X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A]: AAL(U.S.A.) [S]: SAA(Australia)
 [B]: BEAB(England) [U]: U/T(Universal Area)
 [C]: CSA(Canada) [V]: VDE(W. Germany)
 [E]: CEE(Europe) [Y]: Custom Version
 [J]: JPN(Japan)

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE DES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

RECOMMENDED SPARE PARTS LIST

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PART NO.	DESCRIPTION
1	N BT-363301	Δ TRANS POWER A1020T-20 [A]
2	N BT-363302	Δ TRANS POWER A1020T-30 [C]
3	N BT-363303	Δ TRANS POWER A1020T-40 [E, V]
4	N BT-363304	Δ TRANS POWER A1020T-50 [B, S]
5	N BT-363305	Δ TRANS POWER A1020T-70 [U]
6	EC-359065	C S-FIX H CTC-6U-020 4.3-20
7	N ED-365107	D LED SLP284C-50U GREEN
8	ED-200213	D SILICON DBA40C-K15 200/2.6A
9	ED-345555	D SILICON DBB10C 200/1.0A
10	ED-301911	D SILICON H DS448
11	ED-344280	D SILICON H GMA-01-FY2 F05
12	ED-349460	D VARACTER SVC321 A, B, C, D DOUBLE
13	ED-349448	D VARACTOR 1SV147
14	ED-346617	D ZENER H HZ12 C2
15	ED-306320	D ZENER H HZ15 2
16	ED-323836	D ZENER H HZ16 2
17	ED-329056	D ZENER H HZ22 2
18	ED-309069	D ZENER H HZ6 B2
19	ED-328700	D ZENER H HZ9 A2
20	EE-337976	ANT LOOP LA-200A
21	EF-359007	FUSE BET T 1.25A 250V [B]
22	EF-359086	FUSE BET T 4.00A 250V [B]
23	EF-359342	FUSE BET T 400MA 250V [B]
24	EF-602550	FUSE SEMKO T 1.25A 250V [E, V, S]
25	EF-690996	FUSE SEMKO T 4.00A 250V [E, V, S]
26	EF-668474	FUSE SEMKO T 400MA 250V [E, V, S]
27	EF-311839	FUSE TSC A 250V 1.60A [U]
28	EF-326613	FUSE TSC A 250V 5.00A [U]
29	EF-327103	FUSE TSC A 250V 500MA [U]
30	EF-323080	FUSE TSC 125V 3.15A [C, A]
31	EF-346139	FUSE TSC 125V 5.00A [C, A]
32	EF-309390	FUSE TSC 125V 500MA [C, A]
33	N EI-366695	Δ IC STK4172II
34	EI-361624	IC LA1265
35	EI-353852	IC LA7016
36	EI-337228	IC M5218L
37	EI-344764	IC M5218P-21
38	EI-347120	IC SN74LS145N
39	EI-349392	IC TC9164N
40	N EI-363289	IC TC9172
41	N EI-363290	IC TC9302F-011
42	EI-351849	IC μPC1235C
43	EI-344422	OSC X'TAL HC-18/U 7.200000MHZ
44	N EL-362308	PL CORD 14.0V 80MA L=80
45	N EM-361644	IND LCD 9419P
46	EO-337598	COIL VARI 2 25A-1353-01
47	EO-337599	COIL VARI 2 25A-1354-03 [L]
48	ER-353343	Δ R FUSE ERD2FC S10 1/4W 100J
49	ER-318647	Δ R FUSE ERD2FC S10 1/4W 4R7J
50	ES-349070	Δ SW SELECTOR YKS11-0002 02-4 [U]
51	N ES-363319	SW PUSH ESB-62 THROW
52	N ES-363323	SW PUSH ESB-62731 2-06-02N
53	ES-337902	SW PUSH SLDL1P
54	ES-360115	SW SLIDE 00120262 01-02S [U]
55	ES-349367	SW TACT SKHHAK003A
56	ET-360687	Δ TR 2SB1015 Y, GR
57	ET-349459	Δ TR 2SD1406 O, Y, GR
58	ET-310148	Δ TR 2SD612K E, F
59	ET-349449	TR FET 2SK161 O, Y
60	ET-352408	TR FET 2SK192A GR [L]
61	ET-337759	TR FET 2SK246 GR
62	ET-353899	TR 2SA1317 S, T, U
63	ET-308141	TR 2SC2603 G F05
64	ET-338410	TR 2SC2878 A, B [L]
65	ET-336869	TR 2SC2999 C, D
66	ET-349081	TR 2SC3383 S, T
67	ET-356437	TR 2SC930 D2, E, F
68	ET-328265	TR 2SC930 F
69	ET-338565	TR 2SD1302 R, S

REF. NO.	PART NO.	DESCRIPTION
70	EV-361673	R S-FIX H RH0615CNSJ 3P 334
71	EV-356576	R S-FIX H RH0615CS3J 3P 472
72	N EV-363321	VR SLIDE S2518 C203
73	N EV-363322	VR SLIDE S2518 W105
74	EV-363320	VR SLIDE S2528 C104
75	N EV-363324	VR SLIDE 60P2SVOP A104
76	EZ-358816	BATTERY LITHIUM BR2032-1HF

“NOTE“ N: New Parts

1. PC BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
1-1	BA-A1020A030A	PC MAIN BLK AA-V105 [U]
1-1A	BA-A1020A030B	PC MAIN BLK AA-V105 [C]
1-1B	BA-A1020A030G	PC MAIN BLK AA-V105 [A]
1-1C	BA-A1020A030C	PC MAIN BLK AA-V105 [E]
1-1D	BA-A1020A030D	PC MAIN BLK AA-V105 [V]
1-1E	BA-A1020A030F	PC MAIN BLK AA-V105 [S]
1-1F	BA-A1020A030E	PC MAIN BLK AA-V105L [E, B]
1-2	BA-A1020A050A	PC PRE BLK AA-V105 [U]
1-2A	BA-A1020A050B	PC PRE BLK AA-V105 [C, A]
1-2B	BA-A1020A050C	PC PRE BLK AA-V105 [E, S]
1-2C	BA-A1020A050D	PC PRE BLK AA-V105 [V]
1-2D	BA-A1020A050E	PC PRE BLK AA-V105L
1-3	BA-F0131A010A	PC FRONT END BLK FE31 [U, C, A, S, E, B] [EXCEPT V]
1-3A	BA-F0141A010A	PC FRONT END BLK FE41 [V]

NOTE:

- (1) PC MAIN BLK consists of following PC BOARDS.
 - MAIN PC BOARD
 - POWER SW PC BOARD
- (2) PC PRE BLK consists of following PC BOARDS.
 - LCD PC BOARD
 - TACT PC BOARD
 - TONE PC BOARD
 - PIN JACK PC BOARD
 - SW PC BOARD
 - LED PC BOARD
 - PHONE JACK PC BOARD

2. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
MAIN PC BOARD			2-FR3	ER-318647	△ R FUSE ERD2FC S10 1/4W 4R7J
2-IC1	EI-344764	IC M5218P-21	2-FR4	ER-353343	△ R FUSE ERD2FC S10 1/4W 100J
2-IC2	EI-353852	IC LA7016	2-R12, 13	ER-322591	△ R CB H S10 FS RDS 1/4W 101J
2-IC3	EI-337228	IC M5218L	2-R14, 21	ER-551610	R CB H RD 1/2W 151J
2-IC4	EI-366695	△ IC STK4172II	2-R50, 51	ER-324480	△ R CB H S10 FS RDS 1/4W 470J
2-IC101	EI-361624	IC LA1265	2-R52	ER-322591	△ R CB H S10 FS RDS 1/4W 101J
2-IC102	EI-363289	IC TC9172	2-R55, 56	ER-311685	△ R CB H S15 FS RDS 1/2W 4R7J
2-IC103	EI-351849	IC μPC1235C	2-R67	ER-322331	△ R CB H S10 FS RDS 1/4W 821J
2-TR1 to 4	EI-308141	TR 2SC2603 G F05	2-R75	ER-333085	△ R OMF H S20 FS 2W 330J
2-TR5	ET-338565	TR 2SD1302 R, S	2-R78, 79	ER-322591	△ R CB H S10 FS RDS 1/4W 101J
2-TR6	ET-353899	TR 2SA1317 S, T, U	2-R118	ER-328067	△ R CB H S10 FS RDS 1/4W 331J
2-TR7	ET-349459	△ TR 2SD1406 O, Y, GR	2-R124	ER-327710	△ R CB H S10 FS RDS 1/4W 151J
2-TR8	ET-360687	△ TR 2SB1015 Y, GR	2-R125	ER-322591	△ R CB H S10 FS RDS 1/4W 101J
2-TR9	ET-310148	△ TR 2SD612K E, F	2-R131	ER-333401	△ R CB H S10 FS RDS 1/4W 333J
2-TR10	ET-349459	△ TR 2SD1406 O, Y, GR	2-R169	ER-322591	△ R CB H S10 FS RDS 1/4W 101J
2-TR11	ET-308141	TR 2SC2603 G F05	2-R175	ER-324185	△ R CB H S10 FS RDS 1/4W 221J
2-TR12	ET-353899	TR 2SA1317 S, T, U	2-R177	ER-333422	△ R CB H S10 FS RDS 1/4W 563J
2-TR13, 14	ET-308141	△ TR 2SC2603 G F05	2-VC101, 102	EC-359065	C S-FIX H CTC-6U-020 4.3-20
2-TR101	ET-356437	TR 2SC930 D2, E, F	2-C47, 48	EC-361665	C EC V CUT 472M 50.0DC
2-TR102	ET-352408	TR FET 2SK192A GR [L]	2-C49	EC-326583	△ C MMY V CUT CF921 473K 400DC
2-TR103	ET-338410	TR 2SC2878 A, B [L]	2-C52	EC-316188	C EC V CUT SM 102M 25.0DC
2-TR104, 105	ET-308141	TR 2SC2603 G F05 [L]	2-C107	EC-360717	C PP V S05 CQMFS92 47J 50DC [EXCEPT L]
2-TR106	ET-349081	TR 2SC3383 S, T	2-C107A	EC-353044	C PP V F05 PP 511J 50DC (L)
2-TR107	ET-337759	TR FET 2SK246 GR	2-C108	EC-355169	C PP V S05 CQMFS92 271J 50DC (L)
2-TR108 to 112	ET-349081	TR 2SC3383 S, T	2-C112	EC-347591	△ C MMY V F05 MMH63 474M 100DC
2-TR114	ET-353899	TR 2SA1317 S, T, U	2-C141	EC-347093	C PP V F05 PP 331J 50DC
2-TR115	ET-349081	TR 2SC3383 S, T	2-C145	EC-353044	C PP V F05 PP 511J 50DC [EXCEPT C, A]
2-TR116	ET-353899	TR 2SA1317 S, T, U	2-C145A	EC-351998	C PP V F05 PP 821J 50DC [C, A]
2-D2, 3	ED-301911	D SILICON H DS448	2-C148	EC-356598	C PP V F05 PP 302J 50DC
2-D4, 5	ED-329056	D ZENER H HZ22 2	2-C150, 152	EC-347471	C PP V F05 PP 471J 50DC
2-D6, 7	ED-301911	△ D SILICON H DS448	2-J1, 2	EJ-336905	PIN J AJC-035-ACB P 4P
2-D8, 9	ED-306320	D ZENER H HZ15 2	2-J3	EJ-337424	PIN J AJC-034-ABB P 2P
2-D10	ED-200213	△ D SILICON DBA40C-K15 200/2.6A	2-TM1	EJ-349061	TERMINAL PUSH YKD21-0025 P 8P
2-D11	ED-309069	D ZENER H HZ6 B2	2-TM101	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
2-D12	ED-346616	D ZENER H HZ12 B3	2-I	BA-F0131A010A	PC FRONT END BLK FE 31 [U, C, A, S, E, B] [EXCEPT V]
2-D13	ED-345555	△ D SILICON DBB10C 200/1.0A	2-1A	BA-F0141A010A	PC FRONT END BLK FE 41 [V]
2-D14	ED-344280	D SILICON H GMA-01-FY2 F05	ASSEMBLY BLOCK		
2-D15	ED-301911	D SILICON H DS448	2-F3	EF-326613	△ FUSE TSC A 250V 5.00A [U]
2-D16	ED-323836	D ZENER H HZ16 2	2-F3A	EF-346139	△ FUSE TSC 125V 5.00A [C, A]
2-D17, 18	ED-301911	D SILICON H DS448	2-F3B	EF-690996	△ FUSE SEMKO T 4.00A 250V [E, V, S]
2-D101	ED-349460	D VARACTER SVC321 A, B, C, D DOUBLE	2-F3C	EF-359086	△ FUSE BET T 4.00A 250V [B]
2-D102, 103	ED-344280	D SILICON H GMA-01-FY2 F05 [L]	2-F4	EF-326613	△ FUSE TSC A 250V 5.00A [U]
2-D104	ED-349460	D VARACTER SVC321 A, B, C, D DOUBLE	2-F4A	EF-346139	△ FUSE TSC 125V 5.00A [C, A]
2-D105 to 109	ED-344280	D SILICON H GMA-01-FY2 F05 [L]	2-F4B	EF-690996	△ FUSE SEMKO T 4.00A 250V [E, V, S]
2-D110	ED-328700	D ZENER H HZ9 A2	2-F4C	EF-359086	△ FUSE BET T 4.00A 250V [B]
2-D111, 112	ED-344280	D SILICON H GMA-01-FY2 F05	2-F5	EF-327103	△ FUSE TSC A 250V 500MA [U]
2-SW1	ES-363323	SW PUSH ESB-62731 2-06-02N	2-F5A	EF-309390	△ FUSE TSC 125V 500MA [C, A]
2-SW101	ES-360115	SW SLIDE 00120262 01-02S (U)	2-F5B	EF-668474	△ FUSE SEMKO T 400MA 250V [E, V, S]
2-VR1	EV-363324	VR-SLIDE 60P2SV0P A104	2-F5C	EF-359342	△ FUSE BET T 400MA 250V [B]
2-VR101	EV-356576	R S-FIX H RH0615CS3J 3P 472			
2-VR102	EV-361673	R S-FIX H RH0615CN5J 3P 334			
2-FL101	EH-355568	FILTER CE SFE10.7MS2GY-A [EXCEPT V]			
2-FL101A	EH-338338	FILTER CE SFE10.7MS3GK-A [V]			
2-FL102	EH-355568	FILTER CE SFE10.7MS2GY-A			
2-FL103	EH-363344	FILTER LC LP 123-5010-03 [V]			
2-L4	EO-337880	COIL FIX 2 202AK-018 2R2K			
2-L101	EO-337523	COIL FIX 1 L-8 223J			
2-T101	EO-337598	COIL VARI 2 25A-1353-01			
2-T102	EO-337599	COIL VARI 2 25A-1354-03 [L]			
2-T103	E-363279	COIL OSC 2 A7NRS-9857 × 150.0UH			
2-T104	EO-352089	COIL OSC 2 7BRS-9098 × 580.0UH [L]			
2-T105	EO-363291	COIL DET 2 78-1128-01			
2-T106	EO-361630	COIL DET 2 78-1126-02			
2-T107	EO-356732	COIL IFT BCFLZ-450A			
2-FR1, 2	ER-353343	△ R FUSE ERD2FC S10 1/4W 100J			

3. FRONT END PC BOARD

REF. NO.	PART NO.	DESCRIPTION
3-TR1	ET-349449	TR FET 2SK161 O, Y
3-TR2	ET-336869	TR 2SC2999 C, D
3-TR3	ET-328265	TR 2SC930 F
3-TR4	ET-349449	TR FET 2SK161 O, Y
3-D1 to 4	ED-349448	D VARACTOR 1SV147
3-L1	EO-349461	COIL FIX 2 LINK
3-L2	EO-349462	COIL FIX 2 U147
3-L3	EO-349461	COIL FIX 2 LINK
3-L4, 5	EO-349462	COIL FIX 2 U147
3-L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
3-L7	EO-353687	COIL OSC 2 E525HN-110003
3-T1	EO-337640	COIL IFT 119AC-15533 x 10.7MHZ

4. LCD PC BOARD

REF. NO.	PART NO.	DESCRIPTION
LCD PC BOARD		
4-IC1	EI-363290	IC TC9302F-011
4-TR1	ET-353899	TR 2SA1317 S, T, U [U]
4-D1 to 6	ED-344280	D SILICON H GMA-01-FY2 F05
4-D10 to 13	ED-301911	D SILICON H DS448
4-LCD1	EM-361644	IND LCD 9419P
4-X1	EI-344422	OSC X-TAL HC-18/U 7.200000MHZ
4-PL1	EL-362308	PL CORD 14.0V 80MA L=80
ASSEMBLY BLOCK		
4-BT1	EZ-358816	BATTERY LITHIUM BR2032-1HF

5. TACT PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-SW1 to 18	ES-349367	SW TACT SKHHAK003A
5-VR1	EV-363322	VR SLIDE S2518 W105

6. TONE PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC2	EI-337228	IC M5218L
6-VR2, 3	EV-363320	VR SLIDE S2528 C104
6-VR4	EV-363321	VR SLIDE S2518 C203

7. PIN JACK PC BOARD

REF. NO.	PART NO.	DESCRIPTION
7-J7	EJ-358561	PIN J LAP0020-0015R 10P

8. SW PC BOARD

REF. NO.	PART NO.	DESCRIPTION
8-IC3	EI-349392	IC TC9164N
8-IC4	EI-337228	IC M5218L

9. LED PC BOARD

REF. NO.	PART NO.	DESCRIPTION
9-IC5	EI-347120	IC SN74LS145N
9-D14 to 20	ED-365107	D LED SLP284C-50U GREEN

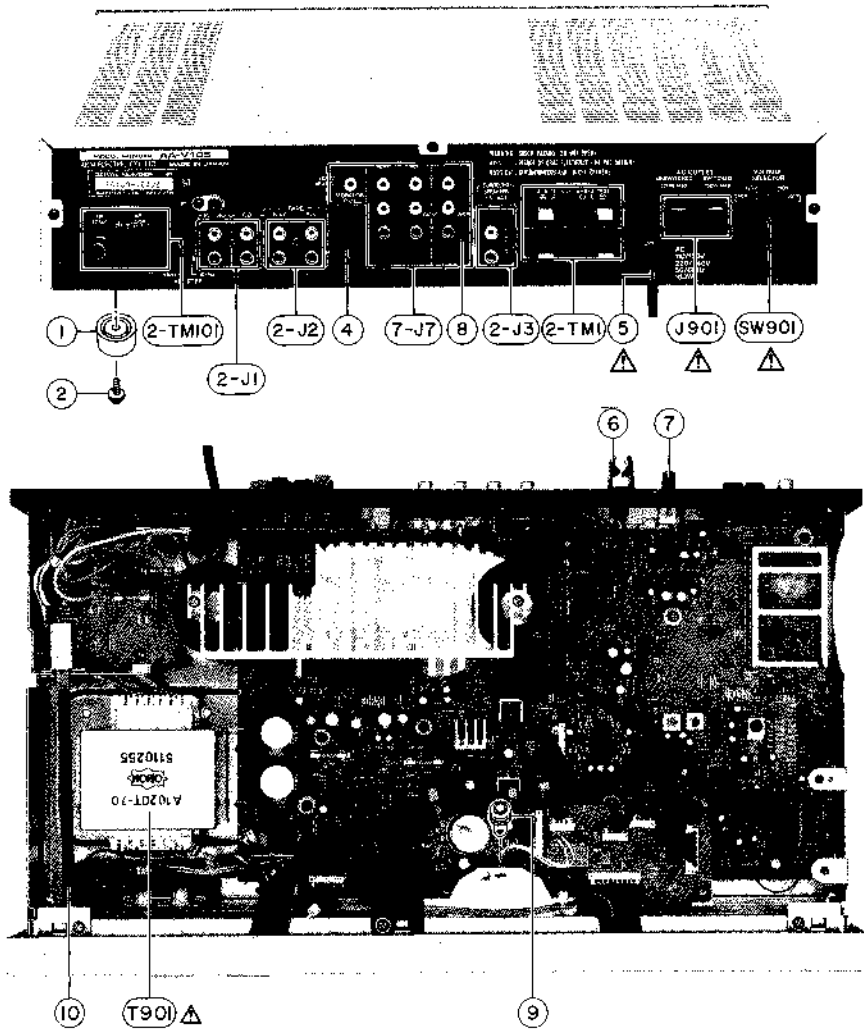
10. PHONE JACK PC BOARD

REF. NO.	PART NO.	DESCRIPTION
10-SW19	ES-363319	SW PUSH ESB-62 W THROW
10-R19	ER-358910	△ R OMF H S15 FS 2W 181J
10-J11	EJ-355012	PHONE J 3P HLJ0541-010 6.3

11. POWER SW PC BOARD

REF. NO.	PART NO.	DESCRIPTION
POWER SW PC BOARD		
11-C201	EC-320548	△ C CE V F 103Z 250AC [U]
11-C201A	EC-338411	△ C CE V FZ 103P 400AC [C, A]
11-C201B	EC-338496	△ C CE V FZ 472P 400AC [E, V, B, S]
11-R201	ER-356573	△ R SD ANTI-STATIC 1/2W 225K [C, A]
11-SW201	ES-337902	△ SW PUSH SDDL1P
ASSEMBLY BLOCK		
11-F1	EF-311839	△ FUSE TSC A 250V 1.60A [U]
11-F1A	EF-323080	△ FUSE TSC 125V 3.15A [C, A]
11-F1B	EF-602550	△ FUSE SEMKO T 1.25A 250V [E, V, S]
11-F1C	EF-359007	△ FUSE BET T 1.25A 250V [B]
11-F2	EF-311839	△ FUSE TSC A 250V 1.60A [U]

ASSEMBLY BLOCK

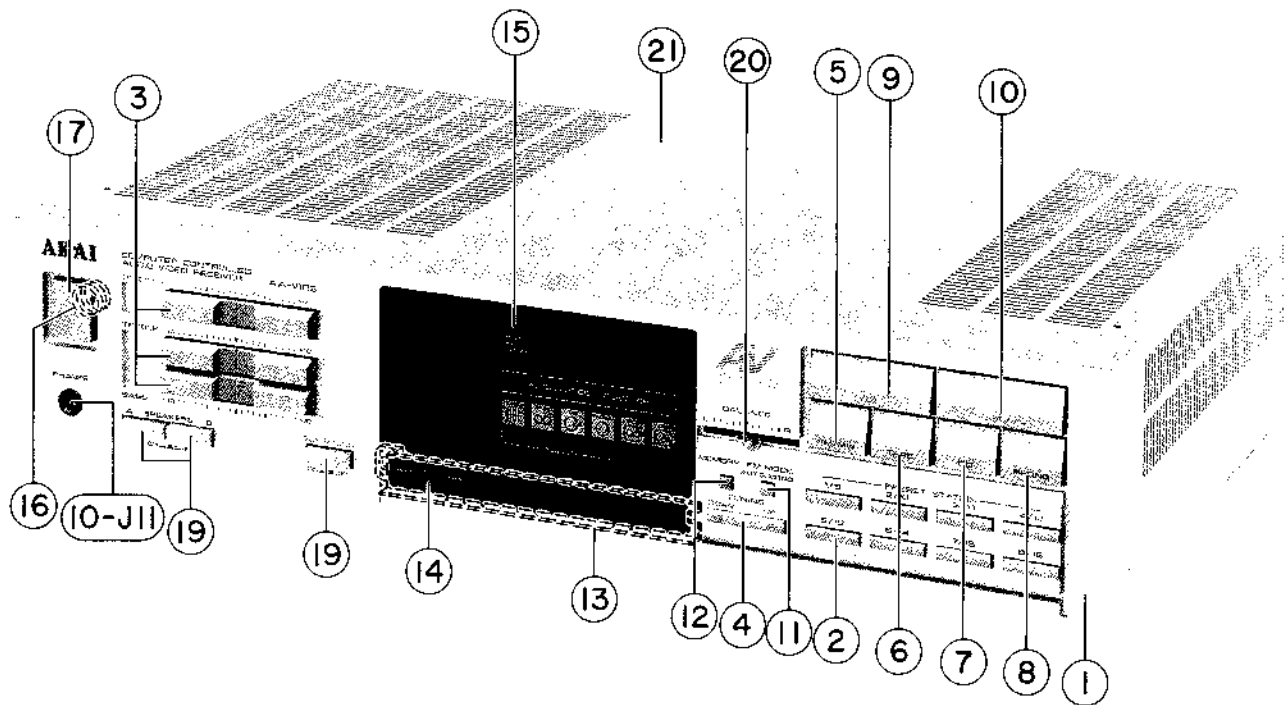


12. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
	ASSEMBLY BLOCK				
12-1	SA-332850	ROUND FOOT	12-10	MZ-356476	JOINT POWER
12-2	ZS-331567	T2BR30 x 08STL CMT CO80 [FOOT FIX]	12-T901	BT-363305	Δ TRANS POWER A1020T-70 [U]
12-3x	ZS-301398	ST BID40 x 08STL CMT [TRANS POWER FIX]	12-T901A	BT-363302	Δ TRANS POWER A1020T-30 [C]
12-4	SP-361861A	PANEL REAR AA-V105 [U]	12-T901B	BT-363301	Δ TRANS POWER A1020T-20 [A]
12-4A	SP-361861G	PANEL REAR AA-V105 [C]	12-T901C	BT-363303	Δ TRANS POWER A1020T-40 [E, V]
12-4B	SP-361861D	PANEL REAR AA-V105 [A]	12-T901D	BT-363304	Δ TRANS POWER A1020T-50 [B, S]
12-4C	SP-361861B	PANEL REAR AA-V105 [E, V]	12-SW901	ES-349070	Δ SW SELECTOR YKS11-0002 02-4 [U]
12-4D	SP-361861C	PANEL REAR AA-V105 [S]	12-J901	EJ-343362	Δ SOCKET OUTLET S2T732T174 JUC 2 x 2P [U]
12-4E	SP-361861E	PANEL REAR AA-V105L [E]	12-J901A	EJ-349837	Δ SOCKET OUTLET S2T732T124 JUC [C, A]
12-4F	SP-361861F	PANEL REAR AA-V105L [B]			
12-5	EW-363841	Δ AC CORD 200 KP700VFF B070 A U/T [U]			
12-5A	EW-363815	Δ AC CORD 200 KP-8WSPT2 B070 A UC [C, A]			
12-5B	EW-363852	Δ AC CORD 200 KP419LTCE B150 A EV [E, V]			
12-5C	EW-363879	Δ AC CORD 200 KP560LTSA B150 A S [S]			
12-5D	EW-363865	Δ AC CORD 200 LTBS B150 A B [B]			
12-6	SZ-362273	HOLDER ANTENNA [2]			
12-7	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P			
12-8	ZW-698308	RV NYL30 x 055 BL			
12-9	EZ-361808	HOLDER LAMP EQ-300-42101A [WHITE]			
				MAIN PC BOARD	
			2-J1, J2	EJ-336905	PIN J AJC-035-ACB P 4P
			2-J3	EJ-337424	PIN J AJC-034-ABB P 2P
			2-TM1	EJ-349061	TERMINAL PUSH YKD21-0025 P 8P
			2-TM101	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
				PIN JACK PC BOARD	
			7-J7	JEJ-358561	PIN J LA P0020-0015R 10P

PARTS LIST

FINAL ASSEMBLY BLOCK



13. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
PANEL FRONT BLOCK			13-10	SK-361876C	KNOB SELECTOR (B) V.DISC/TV
13-1	BD-A1020A060A	PANEL FRONT BLK AA-V105 [U, A, E, V, S]	13-10-B	SK-361876D	KNOB SELECTOR (B)-B V.DISC/TV
13-1A	BD-A1020A060E	PANEL FRONT BLK AA-V105 [C]	13-11	SK-361873B	KNOB (B) (FM MODE)
13-1B	BD-A1020A060B	PANEL FRONT BLK AA-V105L [E, B]	13-11-B	SK-361873C	KNOB (B)-B (FM MODE)
13-1-B	BD-A1020A060C	PANEL FRONT BLK AA-V105-B [U, A, E, V, S]	13-12	SK-361873A	KNOB (A) (MEMORY)
13-1A-B	BD-A1020A060F	PANEL FRONT BLK AA-V105-B [C]	13-13	SZ-361862	GUIDE VR KNOB
13-1B-B	BD-A1020A060D	PANEL FRONT BLK AA-V105 [E, B]-B	13-14	SK-361869	KNOB VR
13-2	SK-361871A	KNOB PRESET (PRESET STATION)	13-15	SZ-361864	IND PLATE [EXCEPT C, A]
13-2-B	SK-361871B	KNOB PRESET-B (PRESET STATION)	13-15A	SZ-361864B	IND PLATE (C) [C, A]
13-3	SK-361874A	KNOB SLIDE (BASS, TREBLE, EFFECT)	13-16	ZG-355238	SP PUSH POWER
13-3-B	SK-361874B	KNOB SLIDE-B (BASS, TREBLE, EFFECT)	13-17	SK-343017C	KNOB POWER (2)
13-4	SK-361872A	KNOB TUNING	13-17-B	SK-343017F	KNOB POWER-B
13-4-B	SK-361872B	KNOB TUNING-B	FINAL ASSEMBLY BLOCK		
13-5	SK-361870A	KNOB SELECTOR (A) FM/MW [EXCEPT L]	13-18x	ZS-331567	T2BR30 x 08STL CMT C080 (PANEL FRONT FIX)
13-5A	SK-361870F	KNOB SELECTOR (A) FM/MW/LW [L]	13-19	SK-358479C	KNOB (F-3) (SPEAKER, A, B, SURROUND)
13-5-B	SK-361870B	KNOB SELECTOR (A)-B FM/MW [EXCEPT L]	13-19-B	SK-358479A	KNOB (F-1) (SPEAKER, A, B, SURROUND)
13-5A-B	SK-361870K	KNOB SELECTOR (A)-B FM/MW/LW [L]	13-20	SK-358477B	KNOB (C-2) (BALANCE)
13-6	SK-361870C	KNOB SELECTOR (A) TAPE	13-20-B	SK-358477A	KNOB (C-1) (BALANCE)
13-6-B	SK-361870G	KNOB SELECTOR (A)-B TAPE	13-21	SP-349925A	COVER UPPER
13-7	SK-361870D	KNOB SELECTOR (A) CD	13-21-B	SP-349925C	COVER UPPER-B
13-7-B	SK-361870H	KNOB SELECTOR (A)-B CD	13-22x	EJ-352118	SOCKET COAX PAL B2-714P-900
13-8	SK-361870E	KNOB SELECTOR (A) PHONO	13-23x	EE-359265	ANT LOOP LA-200A-A
13-8-B	SK-361870J	KNOB SELECTOR (A)-B PHONO	PHONE JACK PC BOARD		
13-9	SK-361876A	KNOB SELECTOR (B) VCR	10-J11	EJ-355012	PHONE J 3P HLJ0541-010 6.3
13-9-B	SK-361876B	KNOB SELECTOR (B)-B VCR	SYMBOL FOR COLOR VARIATION		
			NON : STANDARD COLOR		
			-B : BLACK		
			NOTE: PANEL FRONT BLK includes 13-2 to 13-7.		

PARTS LIST

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AA-V105/L

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BA-A1020A030A	1-1	ED-345555	2-D13	ER-311685	2-R55	ET-353899	4-TR1
BA-A1020A030B	1-1A	ED-346616	2-D12	ER-311685	2-R56	ET-356437	2-TR101
BA-A1020A030C	1-1C	ED-349448	3-D1	ER-318647	2-FR3	ET-360687	2-TR8
BA-A1020A030D	1-1D	ED-349448	3-D2	ER-322331	2-R67	EV-356576	2-VR101
BA-A1020A030E	1-1F	ED-349448	3-D3	ER-322591	2-R12	EV-361673	2-VR102
BA-A1020A030F	1-1E	ED-349448	3-D4	ER-322591	2-R13	EV-363320	6-VR2
BA-A1020A030G	1-1B	ED-349460	2-D101	ER-322591	2-R52	EV-363320	6-VR3
BA-A1020A050A	1-2	ED-349460	2-D104	ER-322591	2-R78	EV-363321	6-VR4
BA-A1020A050B	1-2A	ED-365107	9-D14	ER-322591	2-R79	EV-363322	5-VR1
BA-A1020A050C	1-2B	ED-365107	9-D15	ER-322591	2-R125	EV-363324	2-VR1
BA-A1020A050D	1-2C	ED-365107	9-D16	ER-322591	2-R169	EW-363815	12-5A
BA-A1020A050E	1-2D	ED-365107	9-D17	ER-324185	2-R175	EW-363841	12-5
BA-F0131A010A	1-3	ED-365107	9-D18	ER-324480	2-R50	EW-363852	12-5B
BA-F0131A010A	2-1	ED-365107	9-D19	ER-324480	2-R51	EW-363865	12-5D
BA-F0141A010A	1-3A	ED-365107	9-D20	ER-327710	2-R124	EW-363879	12-5C
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BD-A1020A060A	13-1	EF-309390	2-F5A	ER-332085	2-R75	EZ-361808	12-9
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BD-A1020A060C	13-1-B	EF-311839	11-F2	ER-333422	2-R177	SA-332850	12-1
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EC-351998	2-C145A	EH-363344	2-FL103	ES-349367	5-SW9	SK-361871A	13-2
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ED-306320	2-D9	EJ-355012	10-J11	ET-310148	2-TR9	SZ-361862	13-13
ED-309069	2-D11	EJ-358561	7-J7	ET-328265	3-TR3	SZ-361864	13-15
ED-323836	2-D16	EJ-359031	2-TM101	ET-336869	3-TR2	SZ-361864B	13-15A
ED-328700	2-D110	EL-362308	4-PL1	ET-337759	2-TR107	SZ-362273	12-6
ED-329056	2-D4	EM-361644	4-LCD1	ET-338410	2-TR103	ZG-355238	13-16
ED-329056	2-D5	EO-337523	2-L101	ET-338565	2-TR5	ZS-301398	12-3x
ED-344280	2-D14	EO-337598	2-T101	ET-349081	2-TR106	ZS-331567	12-2
ED-344280	2-D102	EO-337599	2-T102	ET-349081	2-TR109	ZS-331567	13-18x
ED-344280	2-D103	EO-337640	3-T1	ET-349081	2-TR110	ZW-698308	12-8
ED-344280	2-D105	EO-337880	2-L4	ET-349081	2-TR111		
ED-344280	2-D106	EO-349461	3-L1	ET-349081	2-TR112		
ED-344280	2-D107	EO-349461	3-L3	ET-349081	2-TR115		
ED-344280	2-D108	EO-349462	3-L2	ET-349081	2-TR108		
ED-344280	2-D109	EO-349462	3-L4	ET-349449	3-TR1		
ED-344280	2-D111	EO-349462	3-L5	ET-349449	3-TR4		
ED-344280	2-D112	EO-352089	2-T104	ET-349459	2-TR7		
ED-344280	4-D1	EO-353687	3-L7	ET-349459	2-TR10		
ED-344280	4-D2	EO-356732	2-T107	ET-352408	2-TR102		
ED-344280	4-D3	EO-359056	3-L6	ET-353899	2-TR6		
ED-344280	4-D4	EO-361630	2-T106	ET-353899	2-TR12		
ED-344280	4-D5	EO-363279	2-T103	ET-353899	2-TR114		
ED-344280	4-D6	EO-363291	2-T105	ET-353899	2-TR116		

ABBREVIATIONS FOR SERVICE MANUAL (RECEIVER)

MODEL AA-V105/L

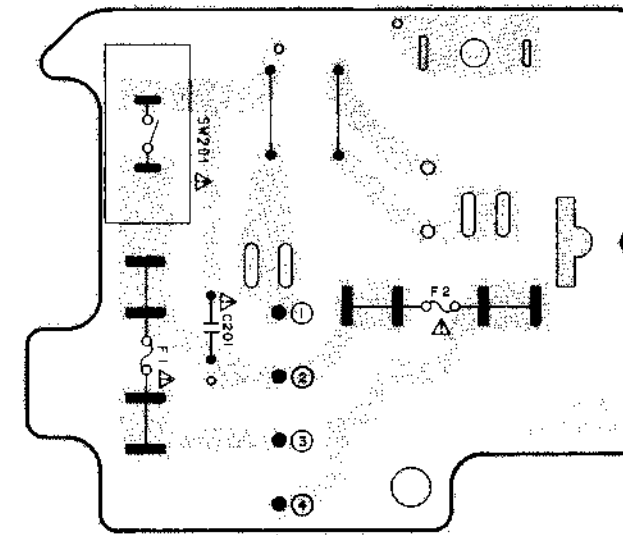
ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLock	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETECT (DETECTor)	PLL	Phase Locked Loop
FLD		Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X*TAL	Crystal

AKAI

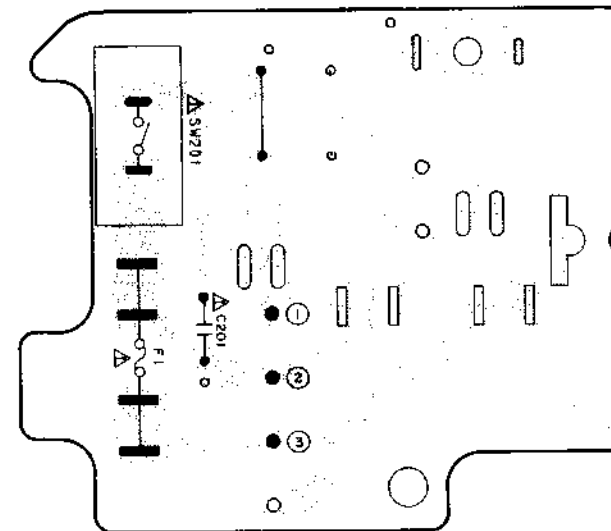
MODEL **AA-V105/L**

SCHEMATIC DIAGRAM AND PC BOARDS

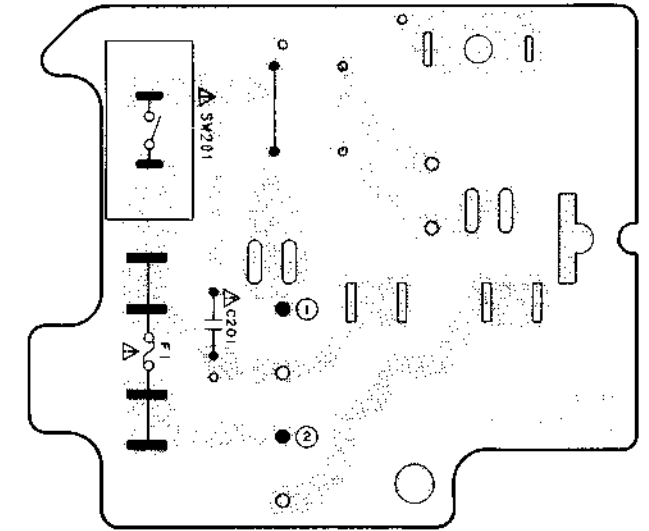
1. POWER SW PCB	1
2. LCD PCB, LED PCB, PHONE JACK PCB, PIN JACK PCB, TACT PCB, TONE PCB	2
3. AA-V105/L CONNECTION SCHEMATIC DIAGRAM	3
4. AA-V105/L MAIN SCHEMATIC DIAGRAM	4
5. AA-V105 MAIN PCB	5
6. AA-V105L MAIN PCB	6
7. AA-V105/L BLOCK DIAGRAM	7



POWER SW PCB AI020A502B [U]



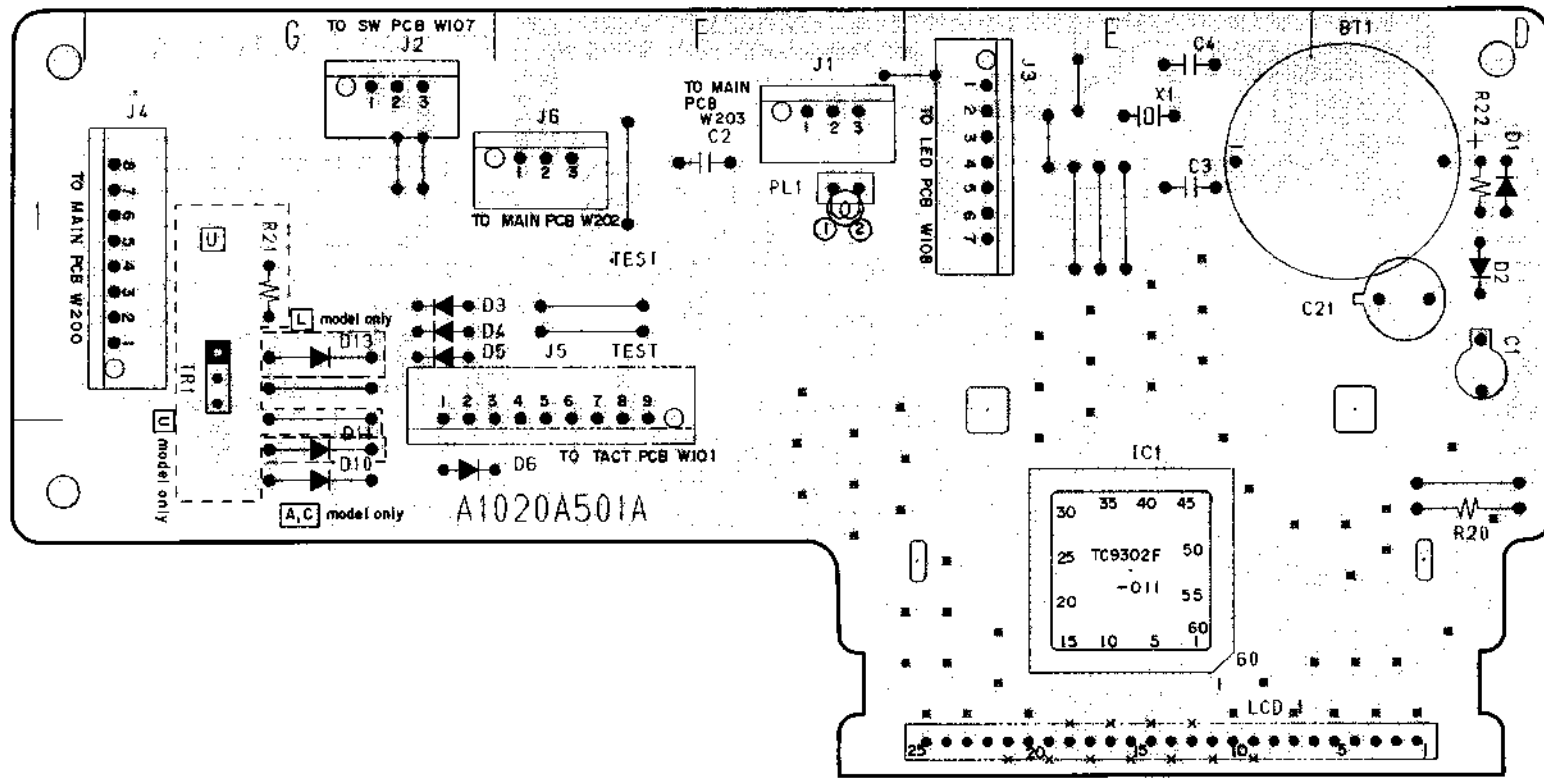
POWER SW PCB AI020A503B [C,A]



POWER SW PCB AI020A504B [V,E]
505B [S,B]

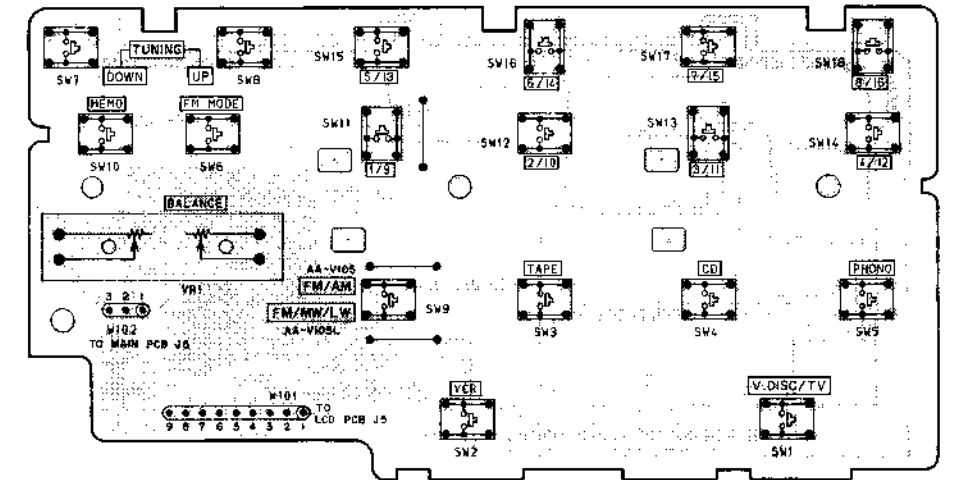
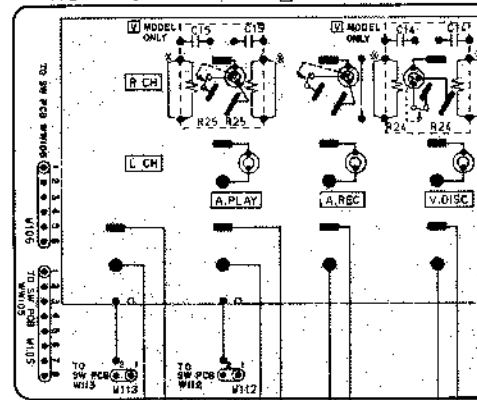
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

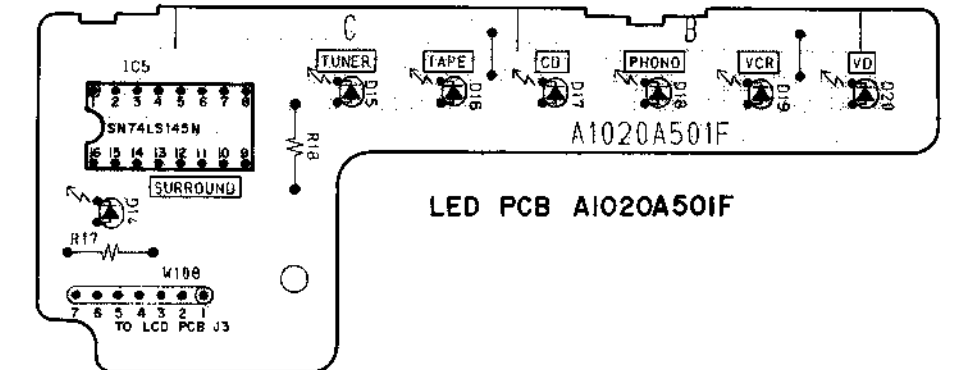


LCD PCB A1020A501A

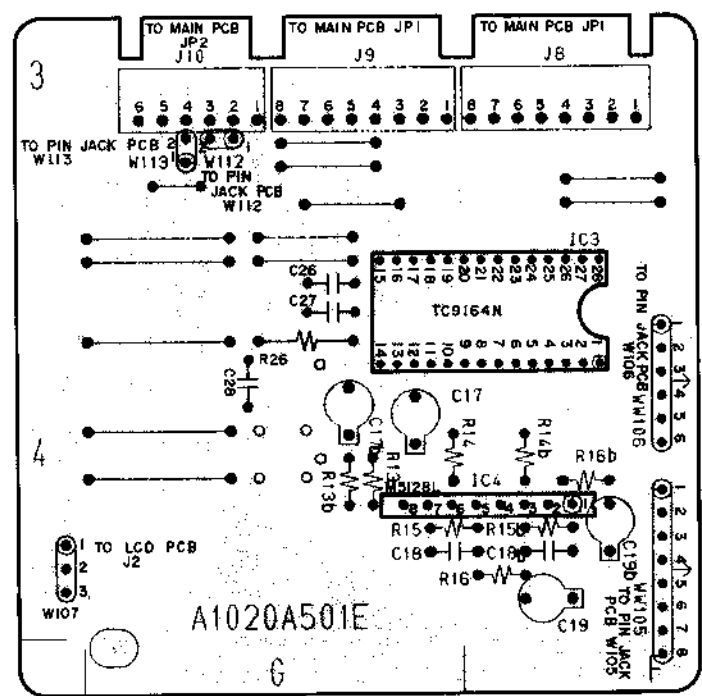
PIN JACK PCB A1020A501D



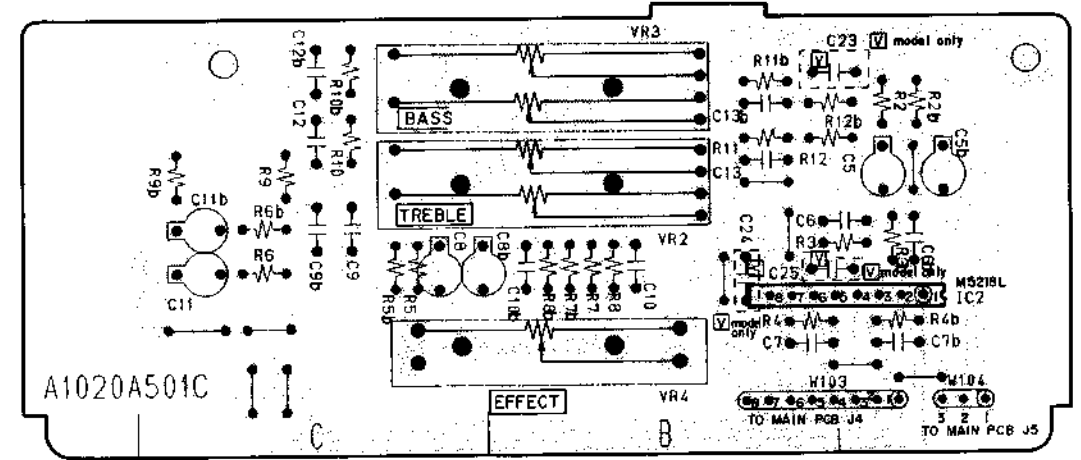
TACT PCB A1020A501B



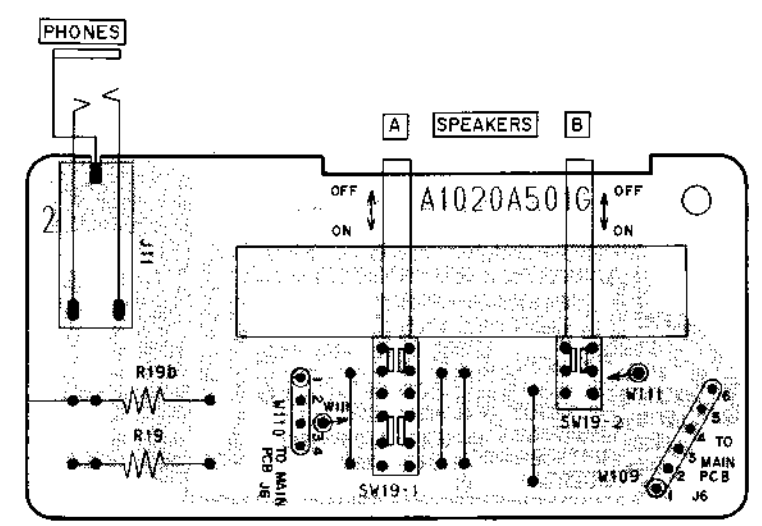
LED PCB A1020A501F



SW PCB A1020A501E

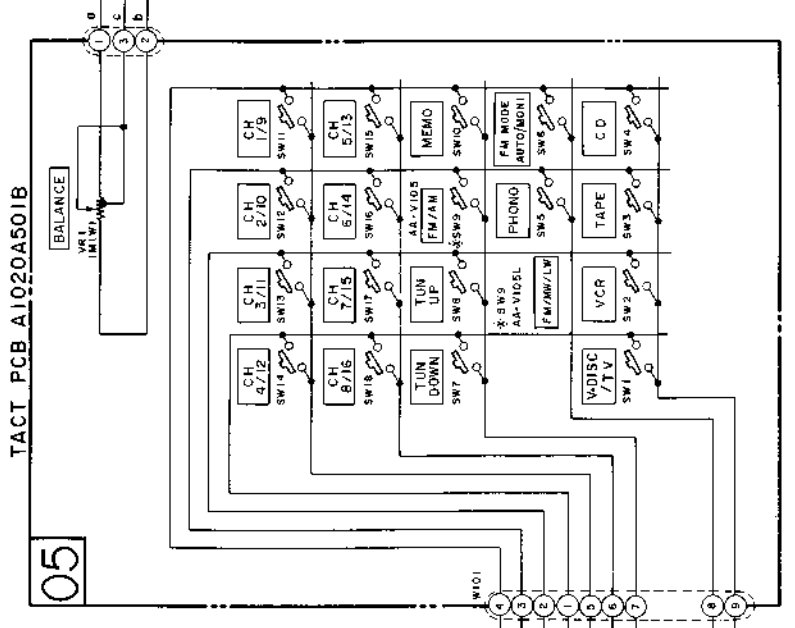


TONE PCB A1020A501C

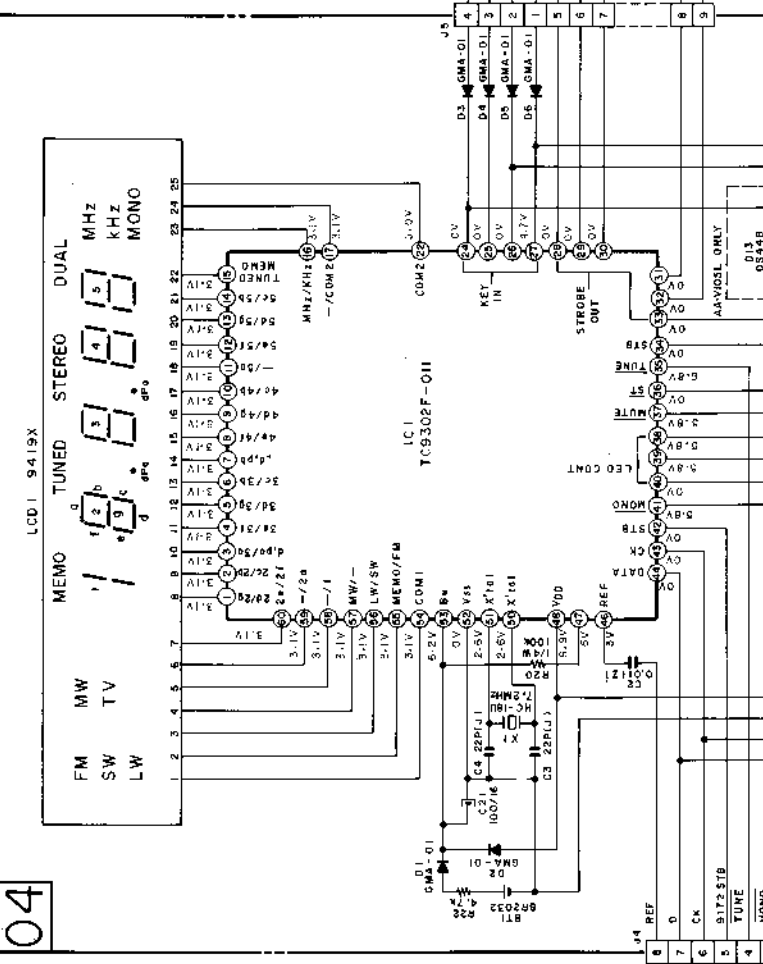


PHONES PCB A1020A501G

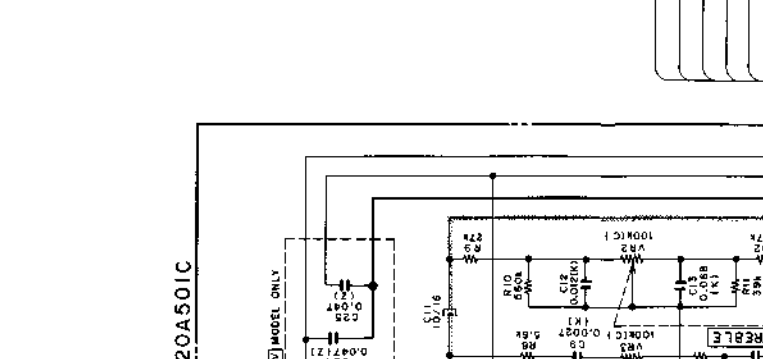
TACT PCB A1020A501B



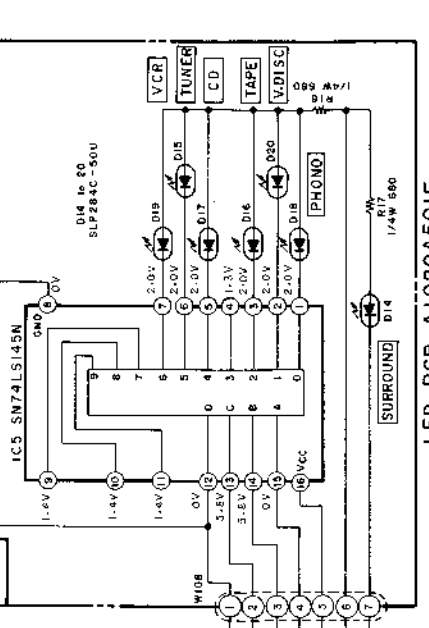
LCD PCB A1020A501A



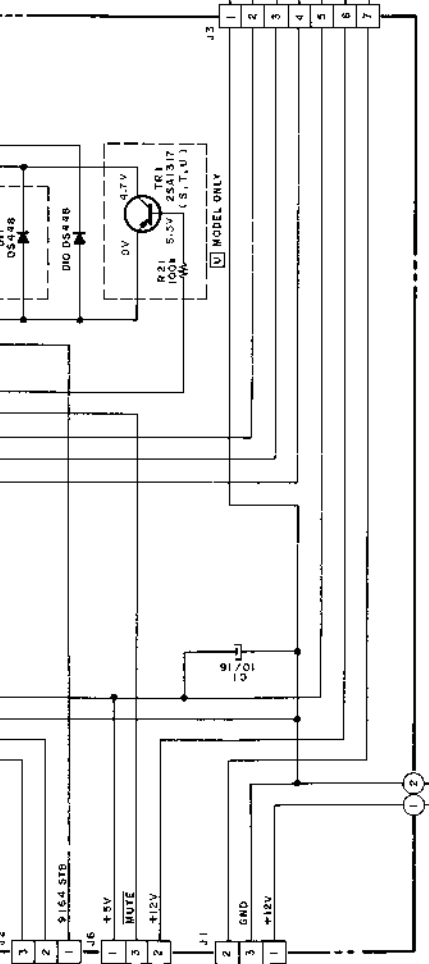
LCD PCB A1020A501A



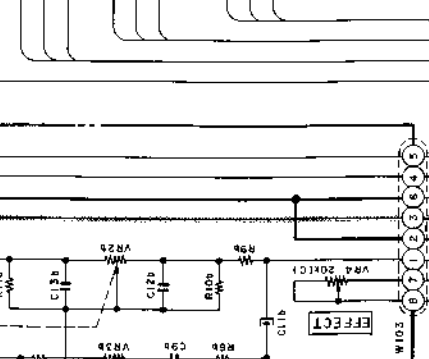
LED PCB A1020A501F



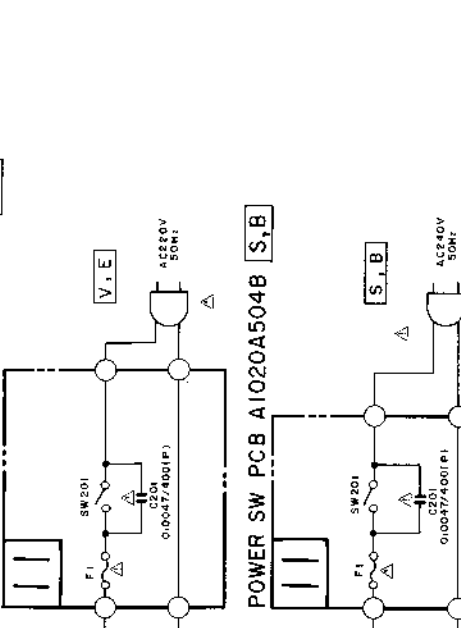
IC1 TC9302F-011



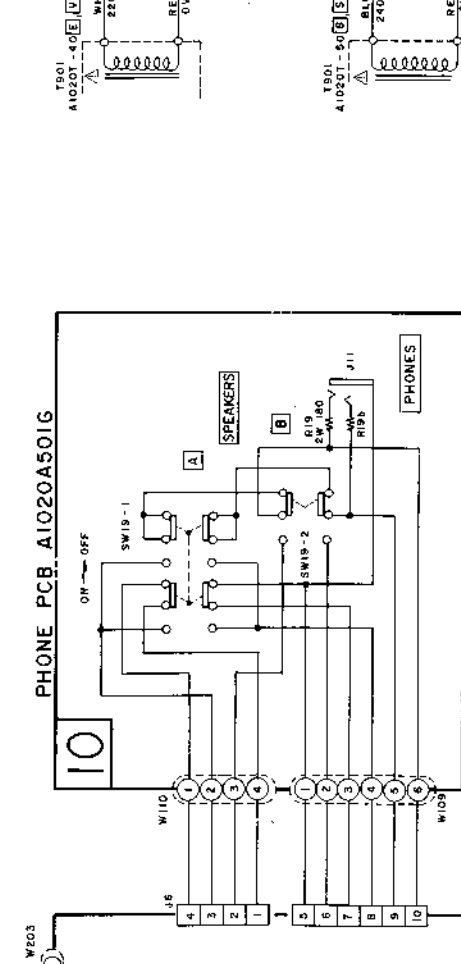
IC1 TC9302F-011



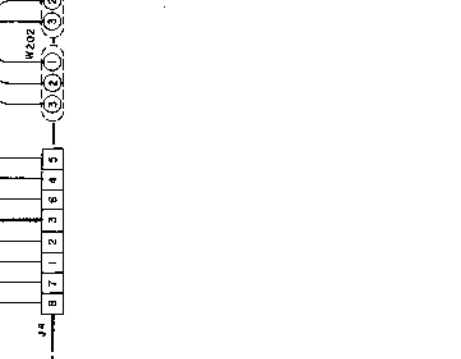
PHONE PCB A1020A501G



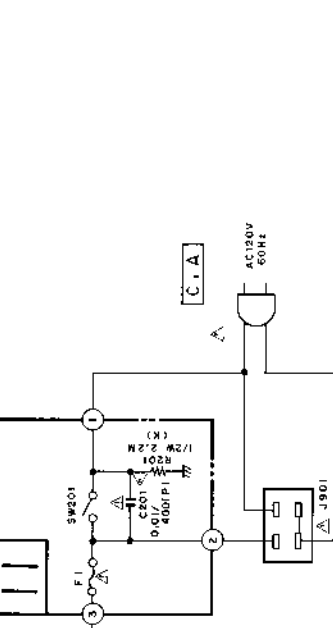
POWER SW PCB A1020A502B



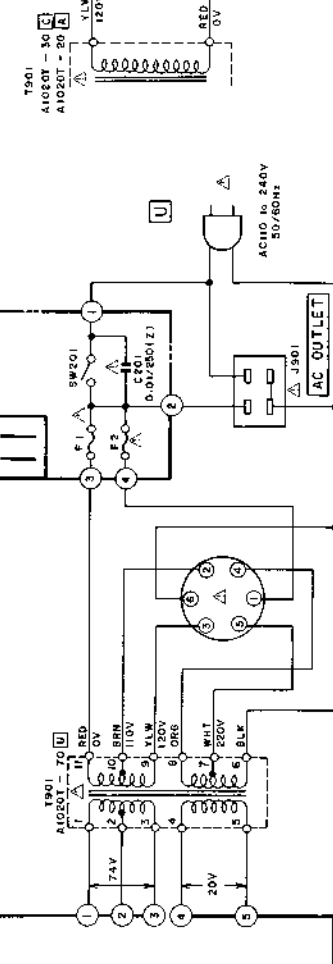
POWER SW PCB A1020A502B



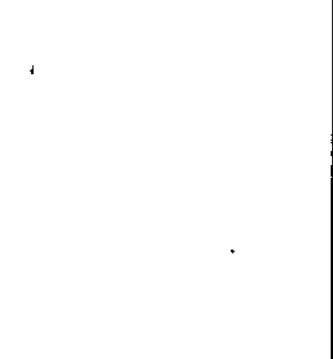
POWER SW PCB A1020A502B



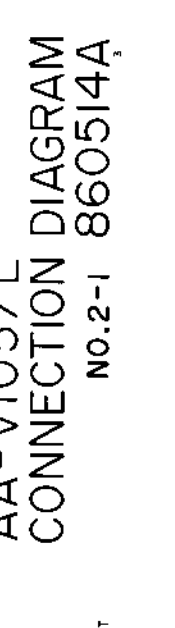
POWER SW PCB A1020A503B



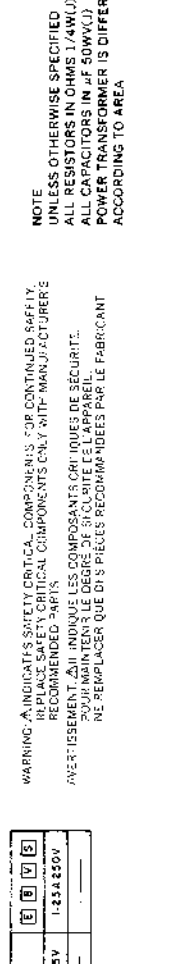
POWER SW PCB A1020A503B



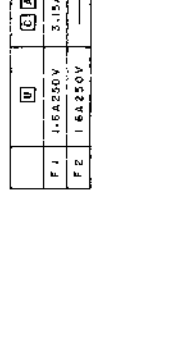
POWER SW PCB A1020A504B



POWER SW PCB A1020A505B



POWER SW PCB A1020A505B



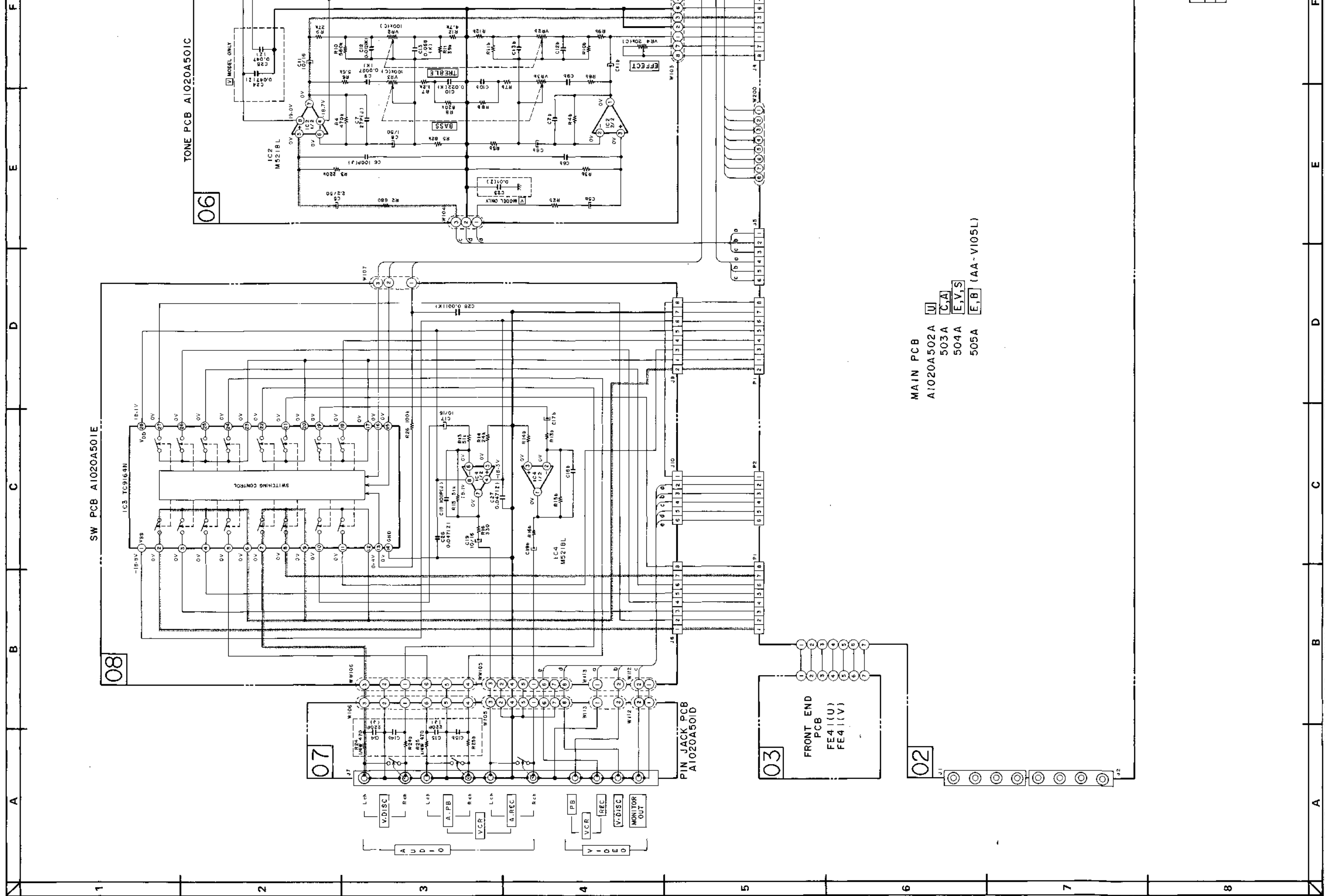
AA-VI05/L
CONNECTION DIAGRAM
No.2-1 860514A

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS (1/4W/1/2W)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

INDICATED VOLTAGES ARE MEASURED AT "FM" STEREO AND "TUNED" MODE

WARNING: A INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
R PLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER
RECOMMENDED PARTS.
AVERTISSEMENT: AII INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE.
NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

U	C	A	B	V	S
F1	1-6A250V	3-15A125V	1-25A 550V		
F2	1-6A250V				



SW PCB A1020A501E

TONE PCB A1020A501C

MAIN PCB
A1020A502A
503A
504A
505A

FRONT END PCB
FE41(U)
FE41(V)

02

03

PIN JACK PCB
A1020A501D

08

07

06

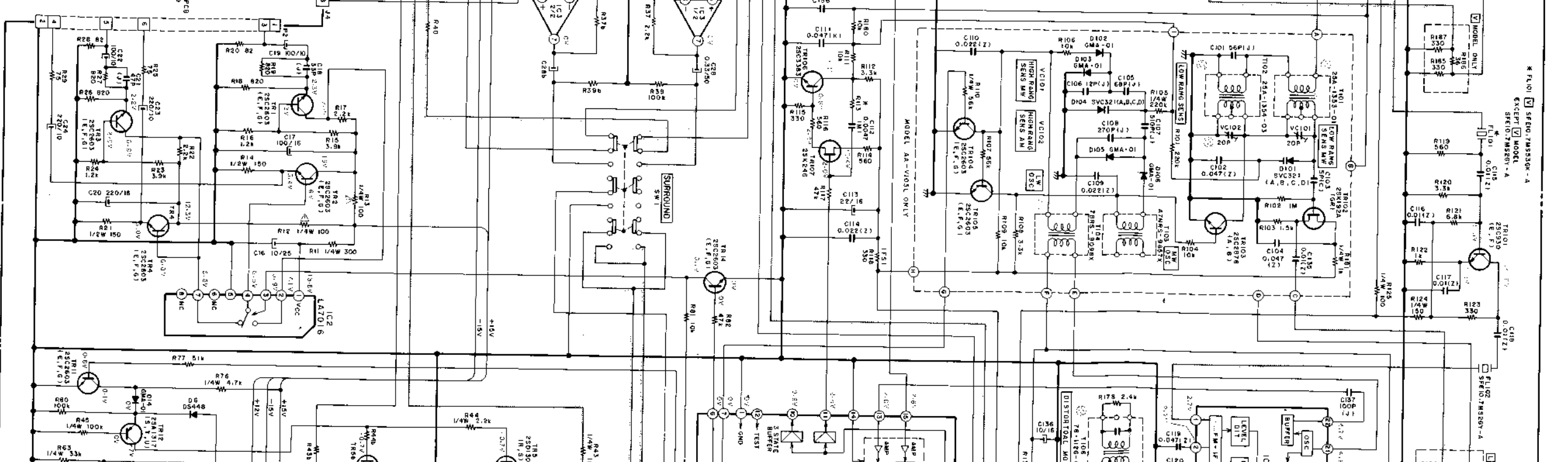
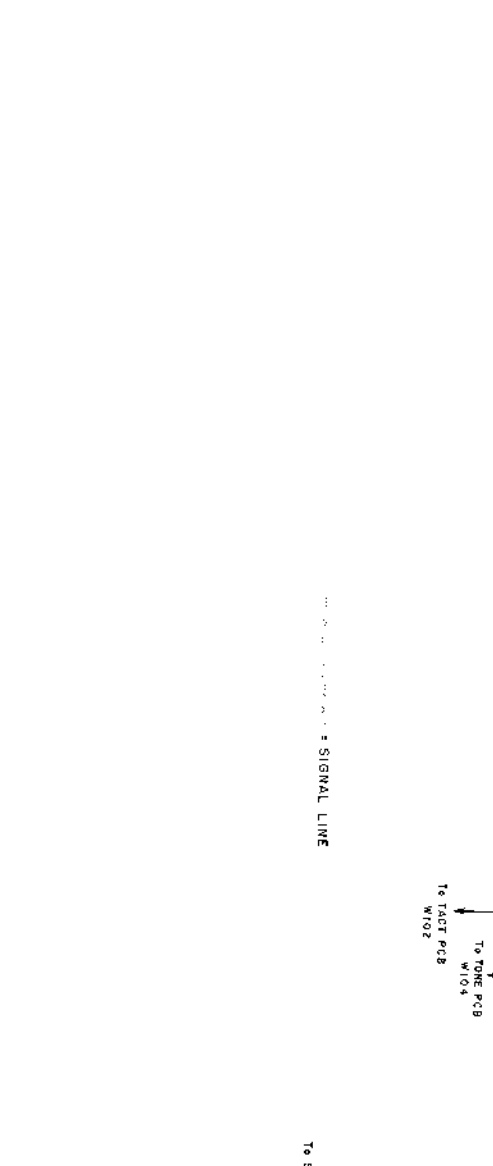
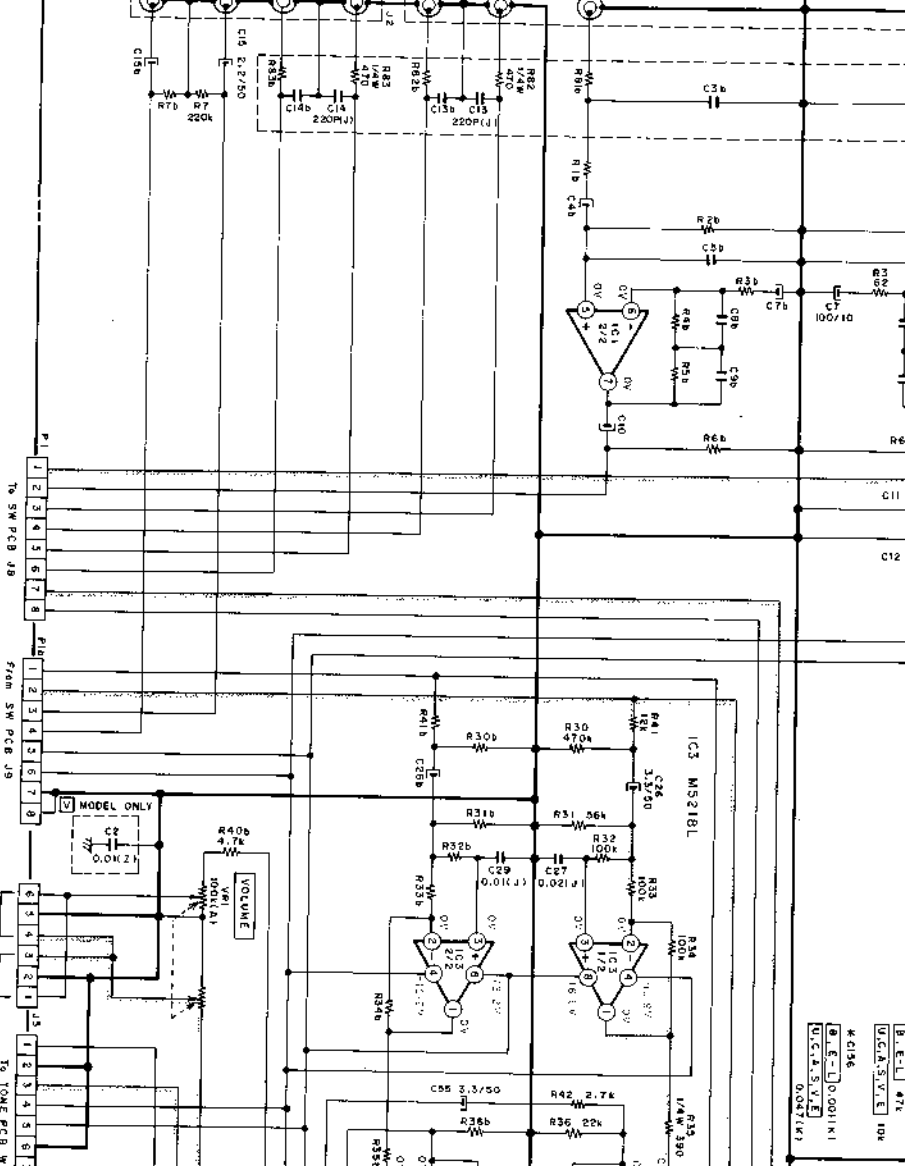
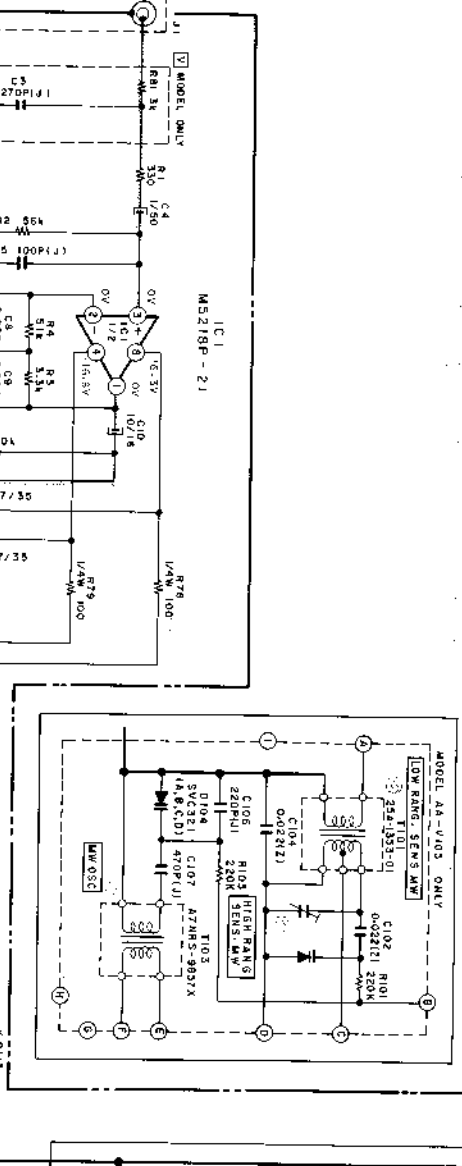
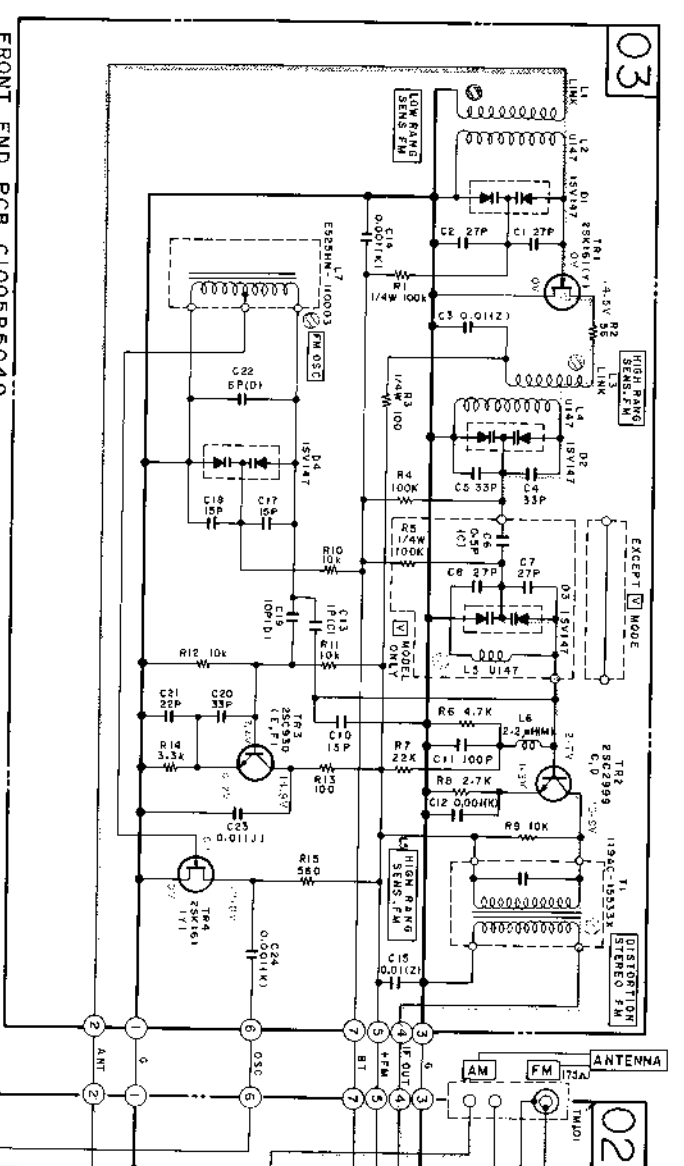
F1	1-6A2
F2	1-6A2

A B C D E F

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A B C D E F

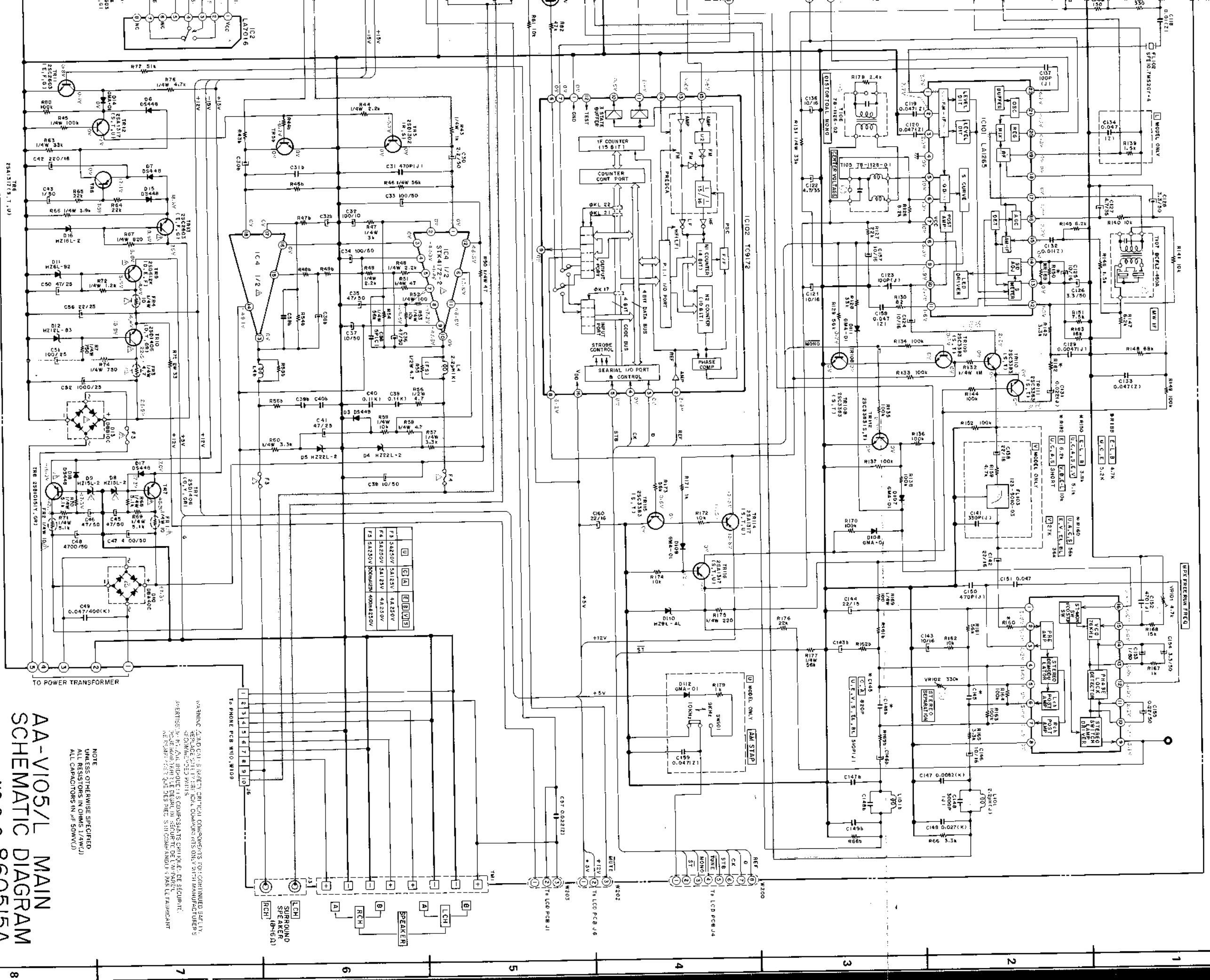


MAIN P

25A

SIGNAL LINE

4



U	E	A	E	B	S
F3	5A4250V	5A125V	1A225V		
F4	5A250V	5A125V	4A225V		
F5	5A250V	500UMH25V	400M4250V		

AA-V105/L MAIN SCHEMATIC DIAGRAM
No.2-2 860515A

NOTE
UNLESS OTHERWISE SPECIFIED,
ALL RESISTORS IN OHMS (1/W) &
ALL CAPACITORS IN P.F. (50WV)

WARNING: A.R.C. (A.R.C.) & SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPAIRS SHOULD BE MADE BY A QUALIFIED SERVICE PERSONNEL.
REPAIRS SHOULD BE MADE BY A QUALIFIED SERVICE PERSONNEL.
REPAIRS SHOULD BE MADE BY A QUALIFIED SERVICE PERSONNEL.

MAIN PCB

TRANSISTORS
(E.T.F.61)

TO POWER TRANSFORMER

TO PHONE PCB W109

TO SPEAKER
SPEAKER
RCH

TO LCD PCB J1

TO LCD PCB J4

TO LCD PCB J6

TO LCD PCB J8

TO LCD PCB J10

TO LCD PCB J12

TO LCD PCB J14

TO LCD PCB J16

TO LCD PCB J18

TO LCD PCB J20

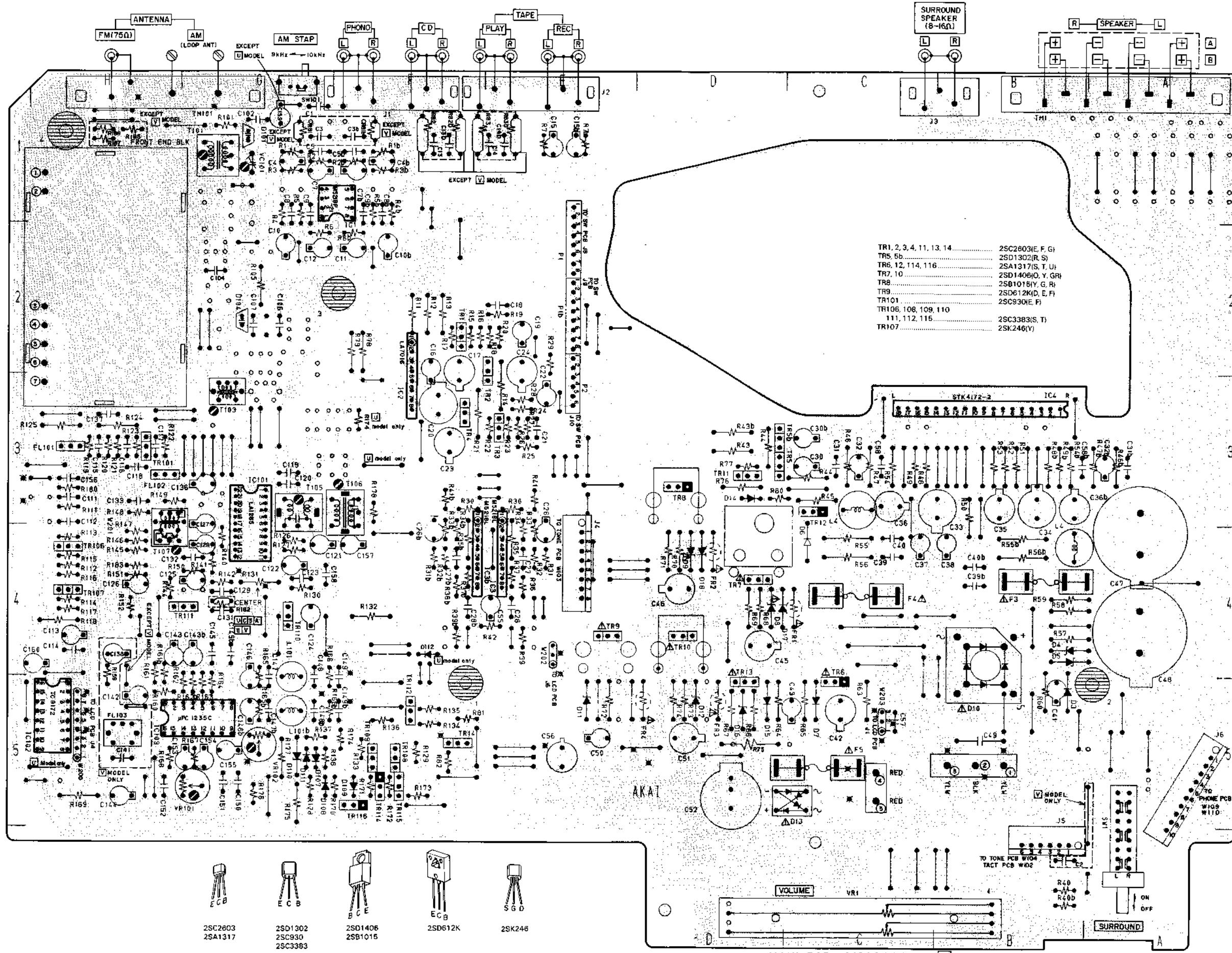
TO LCD PCB J22

TO LCD PCB J24

TO LCD PCB J26

TO LCD PCB J28

TO LCD PCB J30



TR1, 2, 3, 4, 11, 13, 14	2SC2603E, F, G
TR5, 5b	2SD1302(R, S)
TR6, 12, 114, 116	2SA1317(S, T, U)
TR7, 10	2SD1406H, Y, GR
TR8	2SB1015(Y, G, R)
TR9	2SD612K(D, E, F)
TR101	2SC930(E, F)
TR106, 108, 109, 110	
111, 112, 115	2SC3383(S, T)
TR107	2SK246(Y)

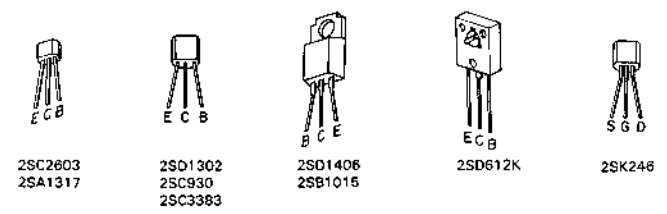
= PNP TRANSISTOR
 = NPN TRANSISTOR

LOCATION OF TR'S

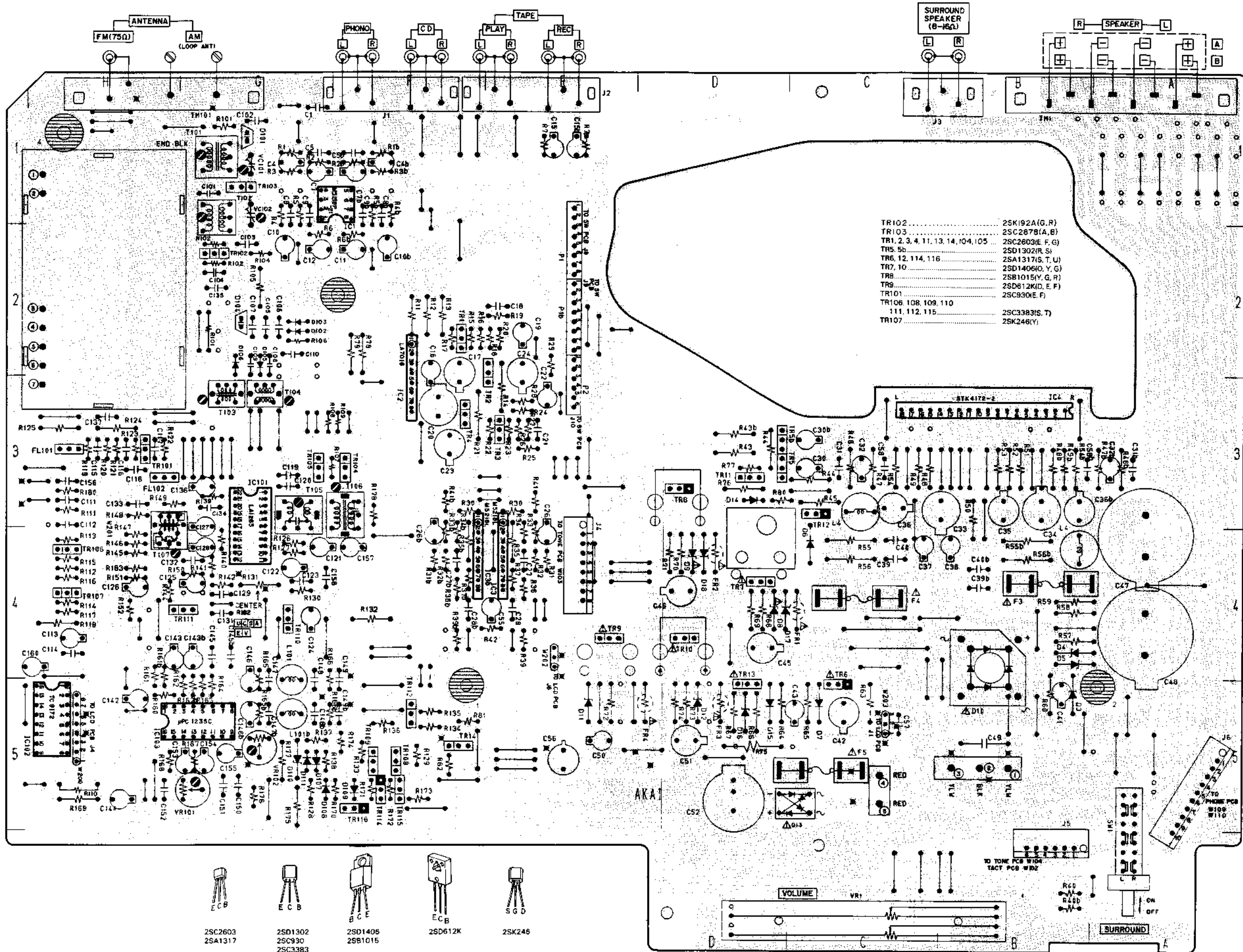
TR1	F2
TR2	E3
TR3	E3
TR4	F3
TR5	D3
TR5b	D3
TR6	C5
TR7	D4
TR8	D3
TR9	E4
TR10	D4
TR11	D3
TR12	C3
TR13	O5
TR14	F5
TR101	H3
TR106	H4
TR107	H4
TR108	F5
TR109	F5
TR110	G4
TR111	F4
TR112	F5
TR114	F5
TR115	F5
TR116	F5

LOCATION OF IC'S

IC1	F1/G1
IC2	F2/F3
IC3	E4
IC3b	F4
IC4	F4
IC101	B3/C3
IC102	G3/G4
IC103	H5/G5



MAIN PCB AI020A502A U
 A503A C, A
 A504A E, V, S



TR102	2SK192A(G,R)
TR103	2SC2878(A,B)
TR1, 2, 3, 4, 11, 13, 14, 104, 105	2SC2603(E, F, G)
TR5, 5b	2SD1302(R, S)
TR6, 12, 114, 116	2SA1317(S, T, U)
TR7, 10	2SD1406(O, Y, G)
TR8	2SB1015(Y, G, R)
TR9	2SD612K(D, E, F)
TR101	2SC930(E, F)
TR106, 108, 109, 110	2SC3383(S, T)
111, 112, 115	2SK246(Y)
TR107	2SK246(Y)

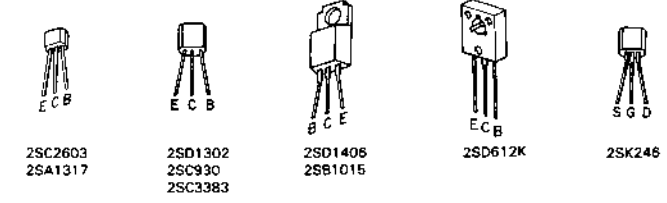
= PNP TRANSISTOR
 = NPN TRANSISTOR

LOCATION OF TR'S

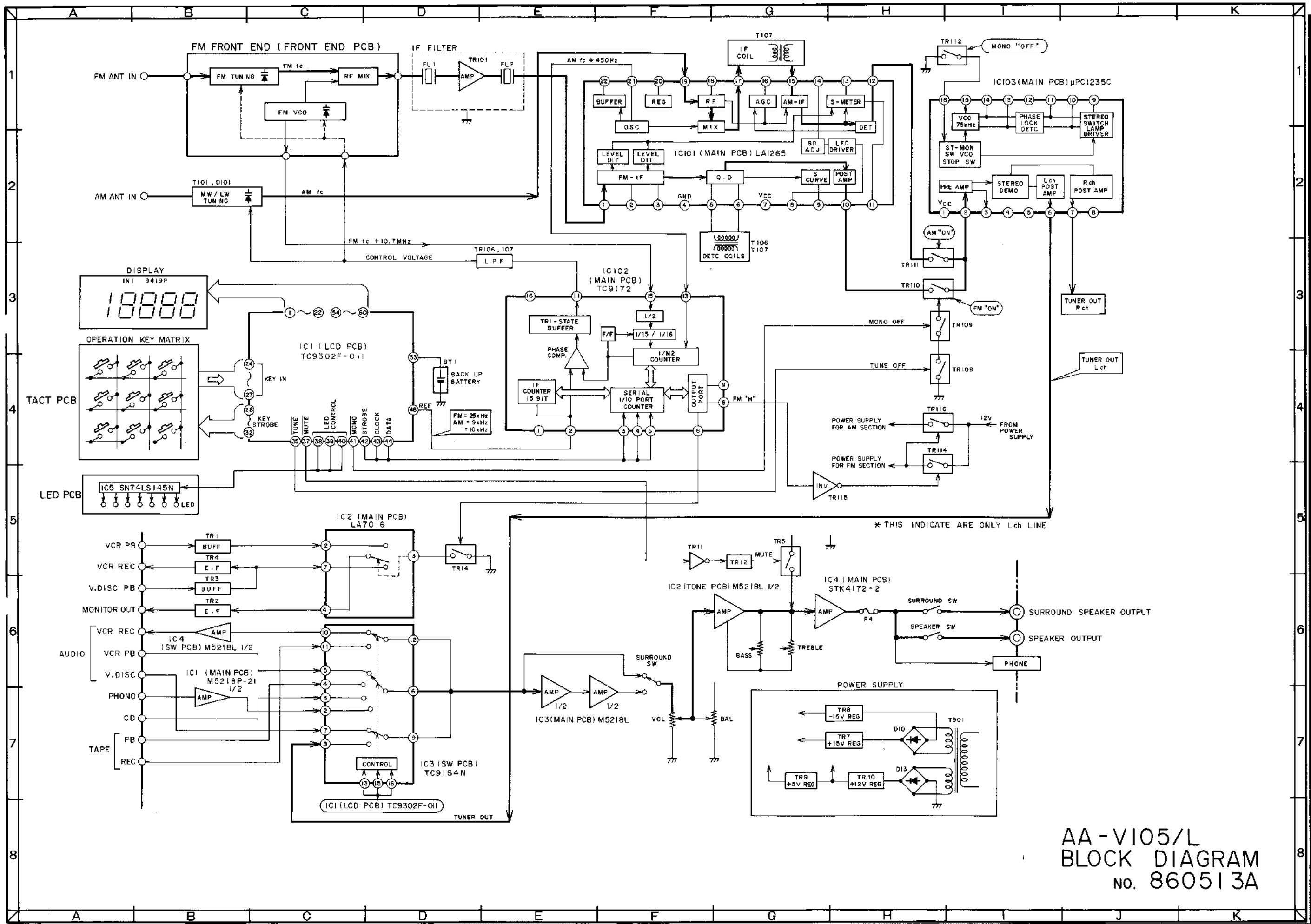
TR1	F2
TR2	E3
TR3	E3
TR4	F3
TR5	D3
TR5b	D3
TR6	C5
TR7	D4
TR8	D3
TR9	E4
TR10	D4
TR11	D3
TR12	C3
TR13	D5
TR14	F5
TR101	H3
TR102	G1
TR103	G2
TR104	F3
TR105	G3
TR106	H4
TR107	H4
TR108	F8
TR109	F5
TR110	G4
TR111	F4
TR112	F5
TR114	F5
TR115	F5
TR116	F5

LOCATION OF IC'S

IC1	F1/G1
IC2	F2/F3
IC3	E4
IC3b	F4
IC4	B3/C3
IC101	G3/G4
IC102	H5
IC103	H5/G5



MAIN PCB AI020A505A(AA-VI05L)



AA-V105/L
 BLOCK DIAGRAM
 No. 860513A