

D-2/20

SERVICE MANUAL



*US Model
Canadian Model
D-2*

*AEP Model
UK Model
E Model
Australian Model*

Discman

SPECIFICATIONS

CD section System Laser diode properties	Compact disc digital audio system Material: GaAlAs Wavelength: 780nm Emission duration: Continuous Laser output: Less than 44.6µW (This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.)
Frequency response Output (at 9V input level)	20-20,000Hz±3dB Line output (stereo minijack) Output level 1V rms at 47kilohms Load impedance over 10kilohms Headphones (stereo minijack) 9mW+9mW at 32ohms
General Power requirements	Optional • DC IN 9V jack accepts the Sony AC power adaptor (supplied) • DC IN 9V accepts the Sony CPM-100P mount plate for use on 12V car battery DC 6V, four size AA (LR6) alkaline batteries 1.2W DC
Power consumption Dimension	Approx. 136×38×149mm (5½×1½×6in.) (w/h/d) incl. projecting parts and controls
Weight	Approx. 450g (1lb) net Approx. 545g (1lb 3oz) incl. batteries
Supplied accessories	Connecting cord (1) Carrying belt (1) AC power adaptor (1)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

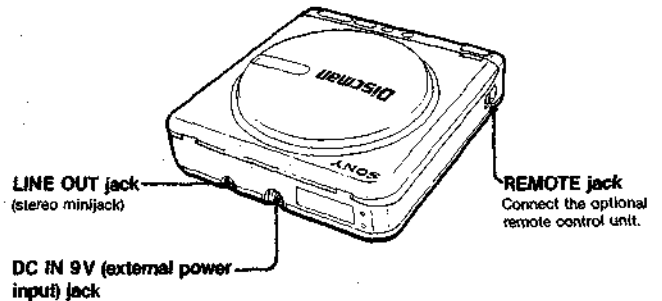
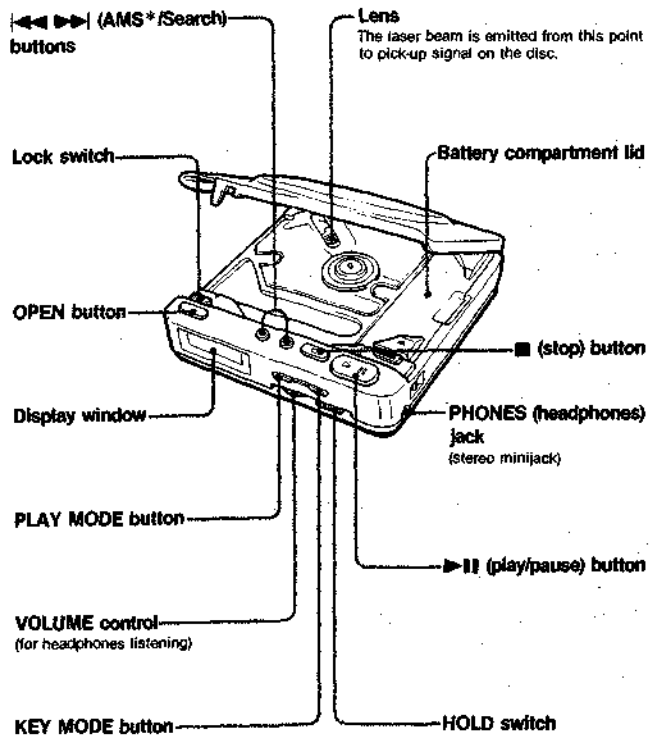
COMPACT DISC COMPACT PLAYER SONY®



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SECTION 1 GENERAL



*AMS is an abbreviation for Automatic Music Sensor.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 2 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Before Replacing the Optical Block

Please be sure to check thoroughly the parameters as per the "Optical Block Checking Procedures" (Part No. : 9-960-027-11) issued separately before replacing the optical block. Note and specifications required to check are given below.

- FOK output : IC501 @pin
When checking FOK, remove the lead wire to disc motor and unsolder and open IC801 @pin (FOK).
- S carve P-to-P value : 3Vp-p
When checking S carve P-to-P value, remove the lead wire to disc motor.
- Adjusted part for focus gain adjustment : RV501
- RF signal P-to-P value : 0.7 - 1.25Vp-p
- Traverse signal P-to-P value : 1.5Vp-p
- The repairing grating holder is impossible.
- Adjusted part for tracking gain adjustment : RV502

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away from the objective lens.

Laser Diode Check Procedure

The laser diode on this set will not emit unless the top panel is closed and S801 (leaf SW type) is turned on. The laser diode will always emit even if focus search is not performed in service mode.

The laser diode is checked using the current value which flows to the laser diode inside the optical pick-up block.

Procedure 1 (service mode or normal operation)

Check the laser diode emission with the eye.

1. Open upper panel.
2. S801 on as Fig. 1.
(In service mode, this operation is not necessary.)
3. Press the ▶|| key.
(In service mode, this operation is not necessary.)
4. Observe the objective lens and confirm that the laser diode is emitting light. At this time, the laser diode goes on about 10 seconds due to focus search. If it does not, APC circuit or optical pick-up block is defective.

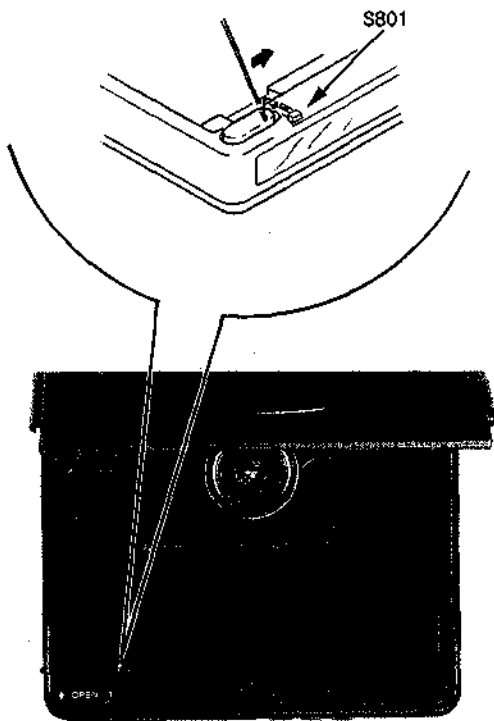
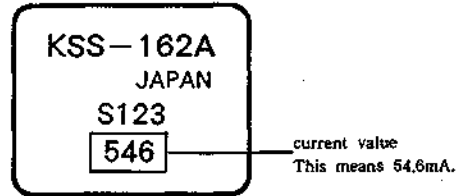


Fig.1 Turning S801 on

Procedure 2 (service mode or normal operation)

Check by the current with flows in the laser diode.

1. Close the top panel.
2. Remove the main board and read the current value on the label affixed to the UPF.
(Label on optical pick-up block)



The current value varies with the set.

3. Connect a VOM as shown in Fig. 2.
4. Press the ▶|| key.
5. Calculate the current by the VOM reading.
VOM reading (V) ÷ 10 = current (A)
ex, VOM reading = 0.56V
0.56 ÷ 10 = 0.056 (A) = 56 (mA)
6. Confirm that the ammeter reading is within the range given below.
value on label ± 5 mA (25°C)
variation relative to temperature : 0.4mA/°C
(Current increases when temperature rises and decreases when it drops.)

If the value is more than the range give, APC circuit has been defective or the laser diode has deteriorated. If it is less, APC circuit or optical pick-up block is defective.

-main board-

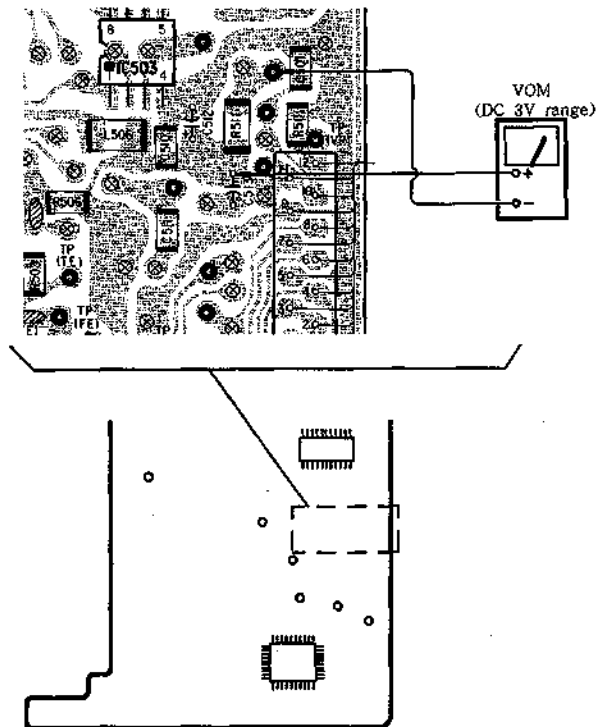


Fig.2 VOM Connection

SERVICE MODE (service program)

This set has built-in service program in the microcomputer as usual sets.
The operation method of service program is explained below.

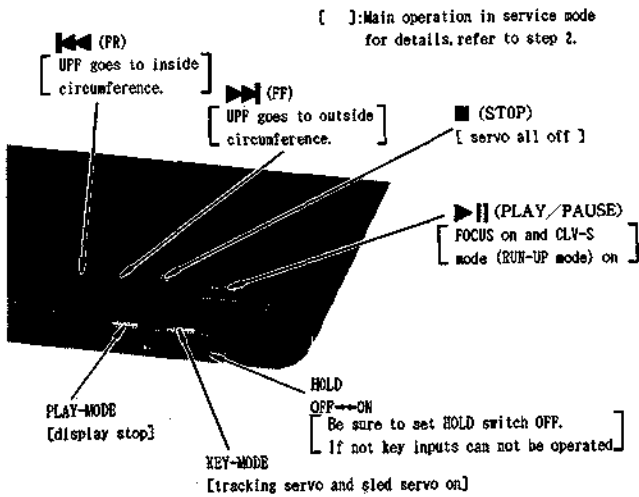


Fig.3 Key Positions

Step 1 (Service Mode setting method)

1. Turn the HOLD switch OFF with the external power supply not plugged in (no power applied to set) and press the **▶▶** key.
2. Solder jumper TEST terminal. (IC801 pin②(TEST) is grounded.)
3. Plug in external power supply. This puts the set into service mode.

Step 2 (Service Mode operation)

1. When service mode is set, the display will change 6 times, and those 6 changes will be repeated over and over. With this the LCD display should be present in service mode. Even if LCD dose not display, other operations will be performed.
2. When **▶▶** or **◀◀** key is pressed, the UPF moves to the inside or outside circumference. Tracking servo and sled servo go off when this is done, so press KEY-MODE to turn on the tracking servo if necessary.
3. When PLAY-MODE is pressed, the display stops. When PLAY-MODE is released, the display continues to change. This allows check of each segment.
4. When **▶▶** Key is pressed, CLV-S (pull-in mode) starts while performing focus search. When there is no disc installed, focus search is repeated several times while disc motor is rotating.
5. When KEY-MODE is pressed, tracking servo, sled servo and CLV-A (servo during PLAY) go ON.
6. When 4 and 5 are performed, the disc begins to play. At this time, the top panel should be closed and S801 are to be ON, A sound is not produced as muting is ON.
7. All servo (focus, tracking, sled and spindle) go off when **■** key is pressed.

Step 3 (Service Mode release)

1. First be sure to unplug the external power supply, then remove the solder jumper TEST terminal.
2. The set will now operated normally.

TEST terminal
(Solder jumper for service mode.
After checking or adjusting in service mode, be sure to remove this solder jumper.)

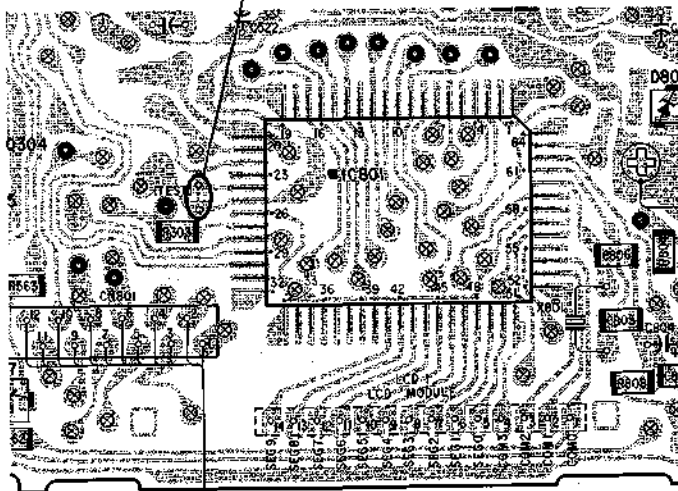
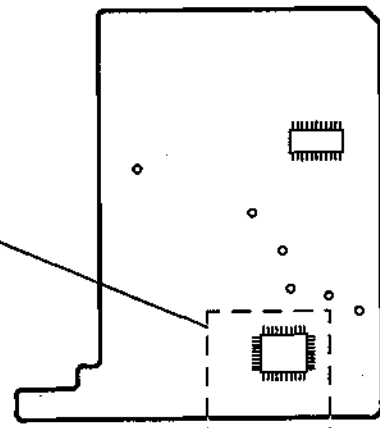


Fig.4 TEST terminal position

-main board-



SECTION 3 ELECTRICAL ADJUSTMENTS

Notes on Adjustment

1. Perform adjustments except for RECHARGEABLE VOLTAGE ADJUSTMENT in service mode.
Be sure to release service mode after completing adjustment.
(Refer to "Service Mode (service program)" on page 5.)
2. Perform adjustments in the order given.
3. Use YEDS-18 disc (part No. : 3-702-101-01) unless otherwise indicated.
4. Power supply voltage : DC 9V
HOLD switch : OFF

PREPARATION

Put the set into service mode (See page 5.) and perform the following checks. Repair if there are any abnormalities.

• Sled Motor Check

1. Press the OPEN button and open the top panel.
2. Press the ►, ◄ keys and make sure that the optical pick-up block moves smoothly, without catching, from the inmost → outmost → inmost circumference.
►: optical pick-up block moves outward
◄: optical pick-up block moves inward

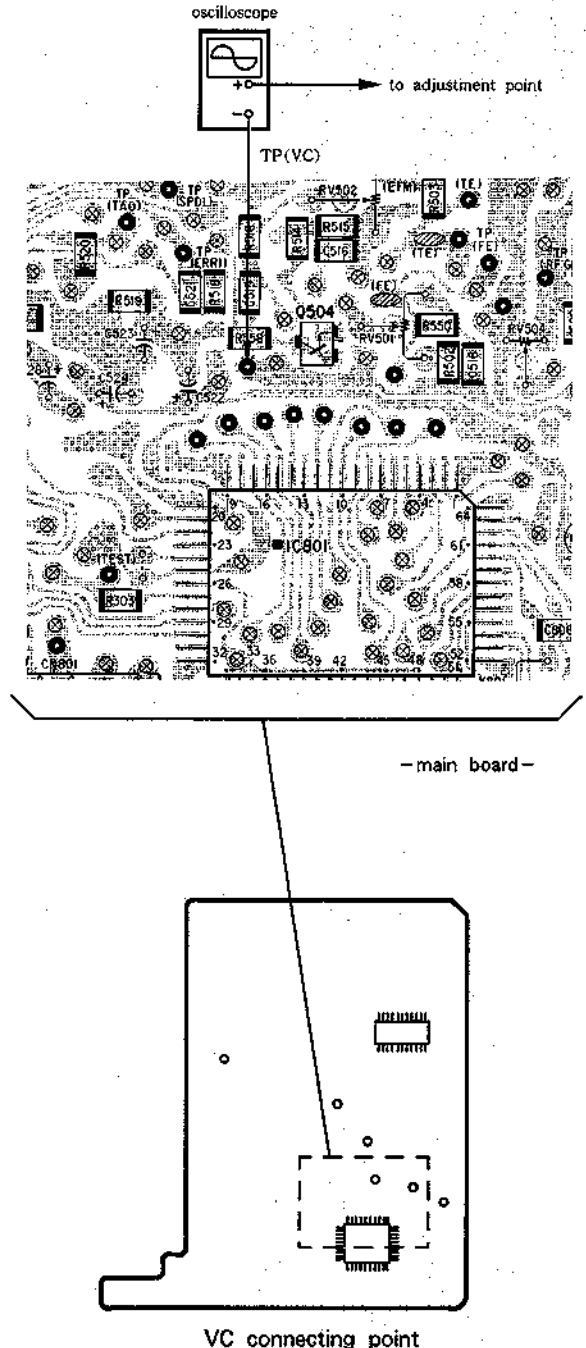
• Focus Search Check

1. Press the OPEN button and open the top panel.
2. Press the ► key. (Focus search is performed continuously.)
3. Observe the optical pick-up block objective lens and check that it moves smoothly up and down with no catching or noises.
4. Press the ■ key.
Check that focus search operation stops. If it does not, press the ■ key again.

VC (1/2 Vcc) Connecting Point

FOCUS BIAS ADJUSTMENT
TRACKING BALANCE ADJUSTMENT

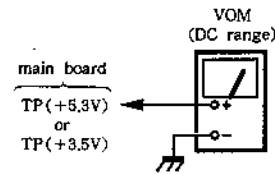
When the adjustments above are performed, connect the ⊖ side of oscilloscope to the point below.



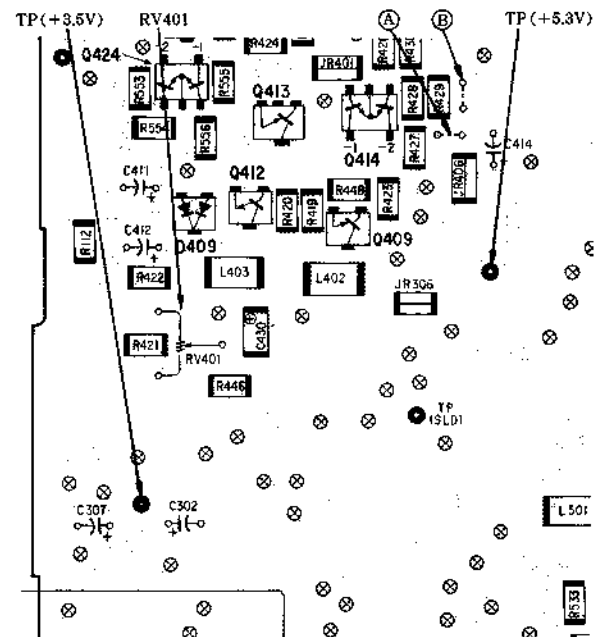
5.3V Adjustment

Adjustment Procedure :

1. Put the set into service mode (see page 5).
2. Connect the VOM to main board test point TP(+5.3V).
3. Adjust RV401 for 5.2V-5.3V reading on the VOM.
4. After adjustment, release service mode (see page 5).



Adjustment Location : main board



3.5V Adjustment

Adjustment Procedure :

1. Put the set into service mode (see page 5).
2. Connect the VOM to main board test point TP(+3.5V).
3. Adjust the pattern connection (A or B) to obtain 3.45V to 3.6V reading on the VOM.

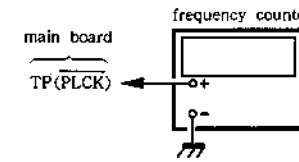
pattern connection		VOM reading
A	B	
○	×	down ↑ up
×	×	
×	○	
○	○	

○ : short × : open

4. After adjustment, release service mode (see page 5).

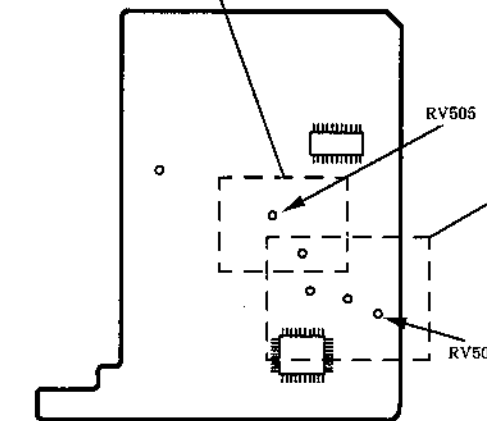
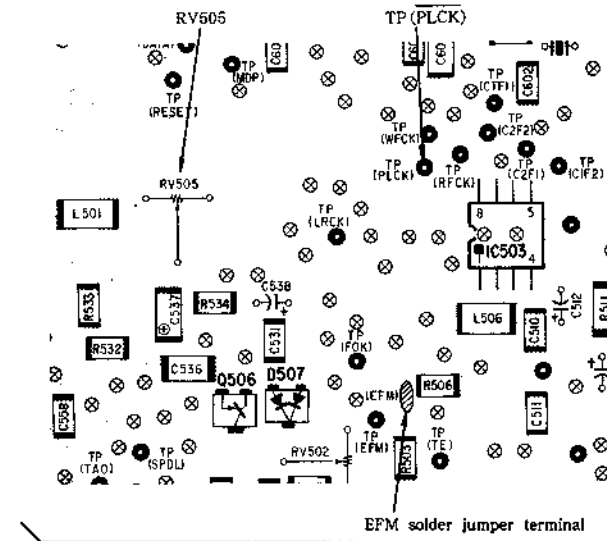
PLL Free Run Frequency Check and Adjustment

Check/Adjustment Procedure :



1. Disconnect EFM solder jumper terminal in the diagram below.
2. Connect a frequency counter to main board test point TP(PLCK).
3. Put the set into service mode (See page 5).
4. Check that the frequency counter reading is 4.31 ± 0.01 MHz. If not, adjust RV505 so that it is 4.31 ± 0.01 MHz.
5. After adjustment, release service mode (see page 5).
6. Short the jumper terminal disconnected in step 1.

Check/Adjustment Location : main board

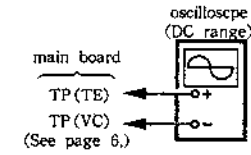


Tracking Balance Adjustment

Conditions :

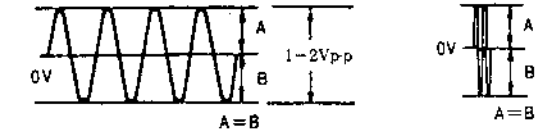
The set should be placed either horizontally.

Adjustment Procedure :



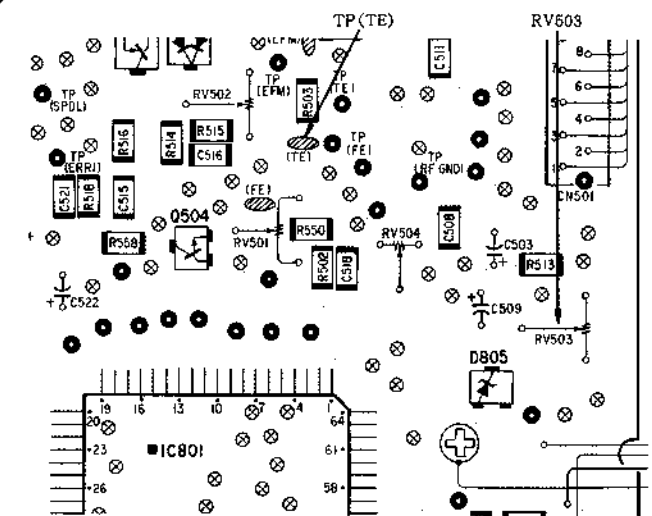
1. Connect the oscilloscope to main board TP(TE).
2. Put the set into service mode (See page 5).
3. Press the **▶▶** and **◀◀** keys to move the optical pick-up block to the center.
4. Insert the disc (YEDS-18) and close the top panel.
5. Press the **▶▶** key.
(It will go from focus search to focus on, and CLV pull-in mode state, Tracking and sled are OFF.)
6. Adjust RV503 so that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V.

Note : Take sweep time as long as possible to obtain best waveform.



7. Unplug the external power supply to stop spindle motor from rotating.
8. After adjustment, release service mode (see page 5).

Adjustment Location : main board

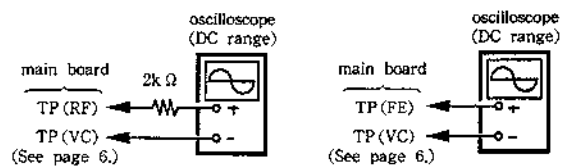


Focus Bias Adjustment

Conditions :

The set should be placed either horizontally.

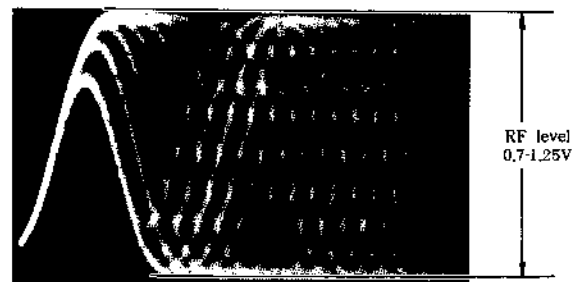
Adjustment Procedure :



- Put the set into service mode (See page 5).
- Connect the oscilloscope to main board test point TP(RF).
- Press the **▶▶** and **◀◀** key to move the optical pick-up block to the center. (Move the optical pick-up block to the music area on the disc to enable easy visibility of the eye pattern).
- Insert the disc (YEDS-18) and close the top panel.
- Press the **▶▶** key.
(It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.)
- Press the KEY-MODE button (Tracking and sled go ON.)
- Adjust RV504 so that the oscilloscope waveform eye pattern is good. A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

RF Signal Reference Waveform (eye pattern)

VOLT/DIV : 200mV
TIME/DIV : 500nS



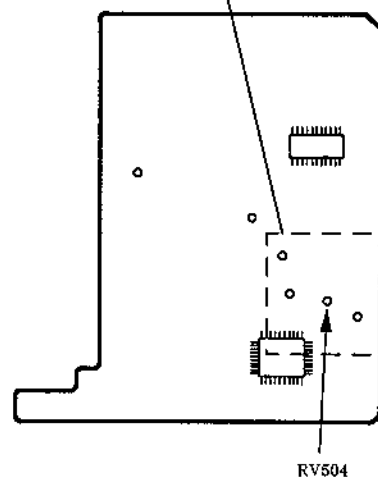
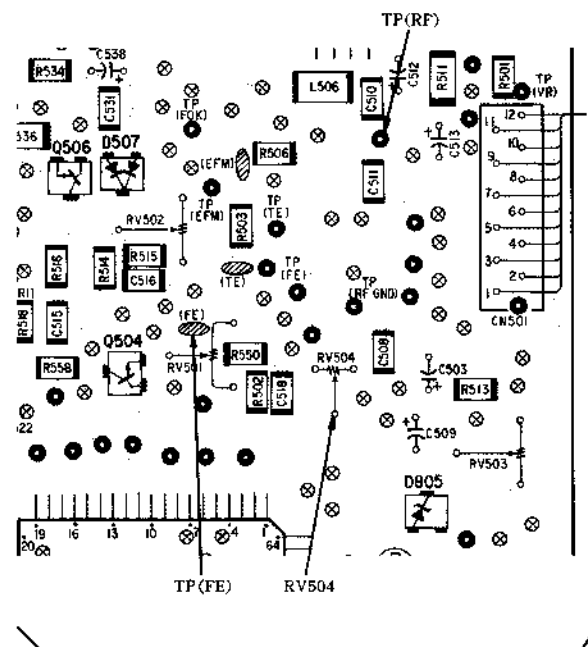
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

- Unplug the external power supply to stop spindle motor from rotating.
- Remove the disc and connect the oscilloscope to main board TP (FE).
- Adjust RV503 again referring to the table followed.

voltage of TP (FE)	adjustment
more than +100mV	Not adjust again.
+50 to 100mV	Adjust RV503 again for +100mV reading on oscilloscope
less than +50mV	Not adjust again.

- After adjustment, release service mode (see page 6).

Adjustment Location : main board



Reference

Focus/Tracking Gain Adjustment

A frequency response analyzer or CD jig is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up followup (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is high, the noise when the 2-axis device operates increases.
- When gain is low, it is more susceptible to mechanical shock and skipping occurs more easily.

This adjustment is to be performed when replacing the following parts :

- UPF (optical pick-up block)
- RV501 (focus gain volume)
- RV502 (tracking gain volume)

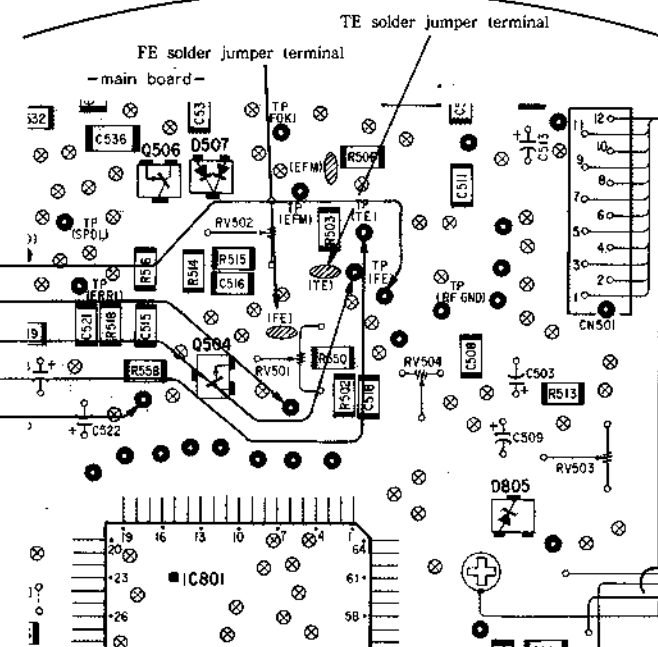
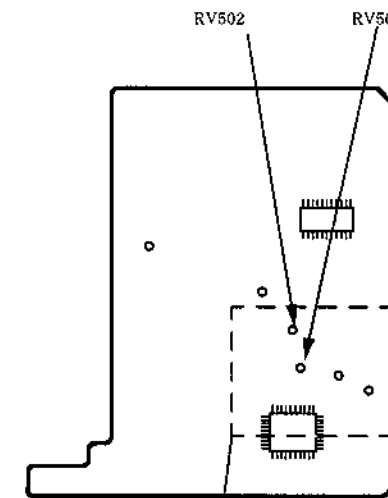
On this set, it is very difficult to simplify this adjustment. For those sets on which symptoms such as "occasional skipping" are hard to discover, or it is hard to tell if the set has been repaired, use the CD jig and perform this adjustment. Refer to the diagram below for connection of the CD jig. The adjustment procedure is described in the separate CD jig Instruction Manual.

Please be careful no to move RV501 (focus gain volume), RV502 (tracking gain volume) ordinarily.

CD jig connection :

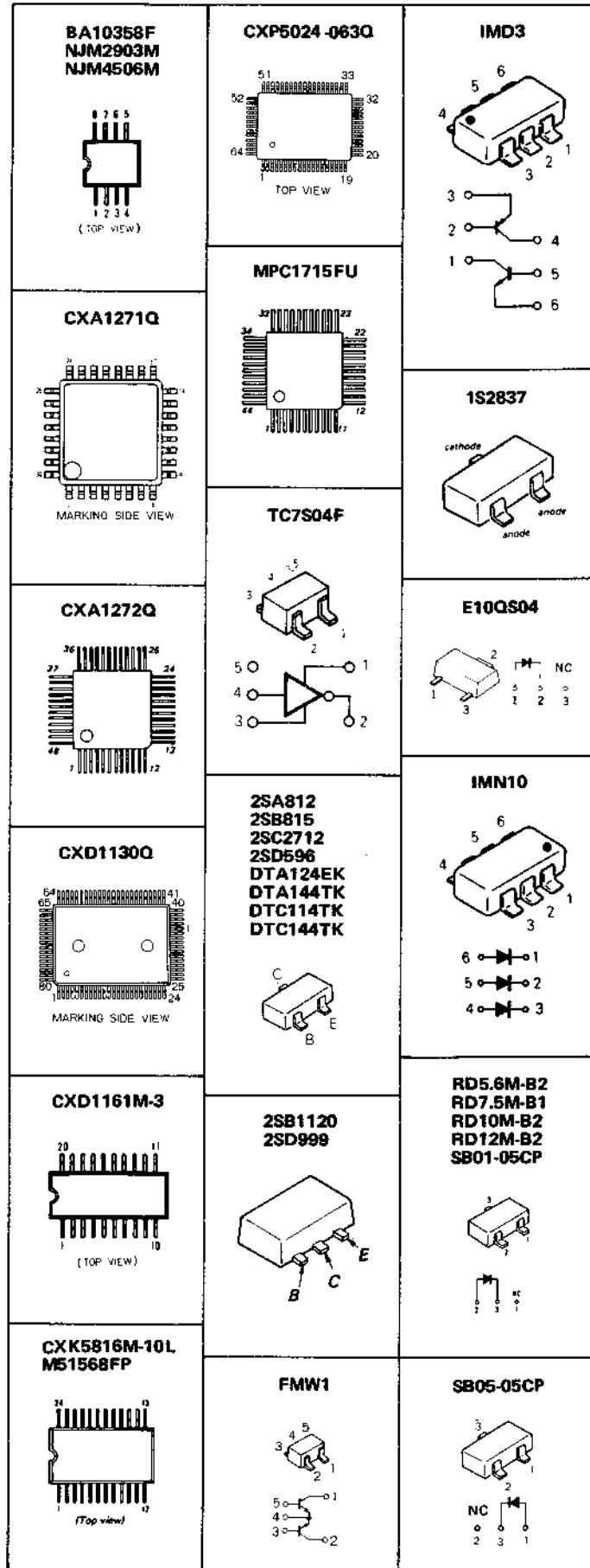


Remove the solder jumpers at the TE and FE locations and connect the CD jig.



SECTION 4 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS



Note on Printed Wiring Boards:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.
- ⊗ : Through hole to SIDE A and SIDE B indicate to jointed number and connection.

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted, pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- % : indicates tolerance.

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

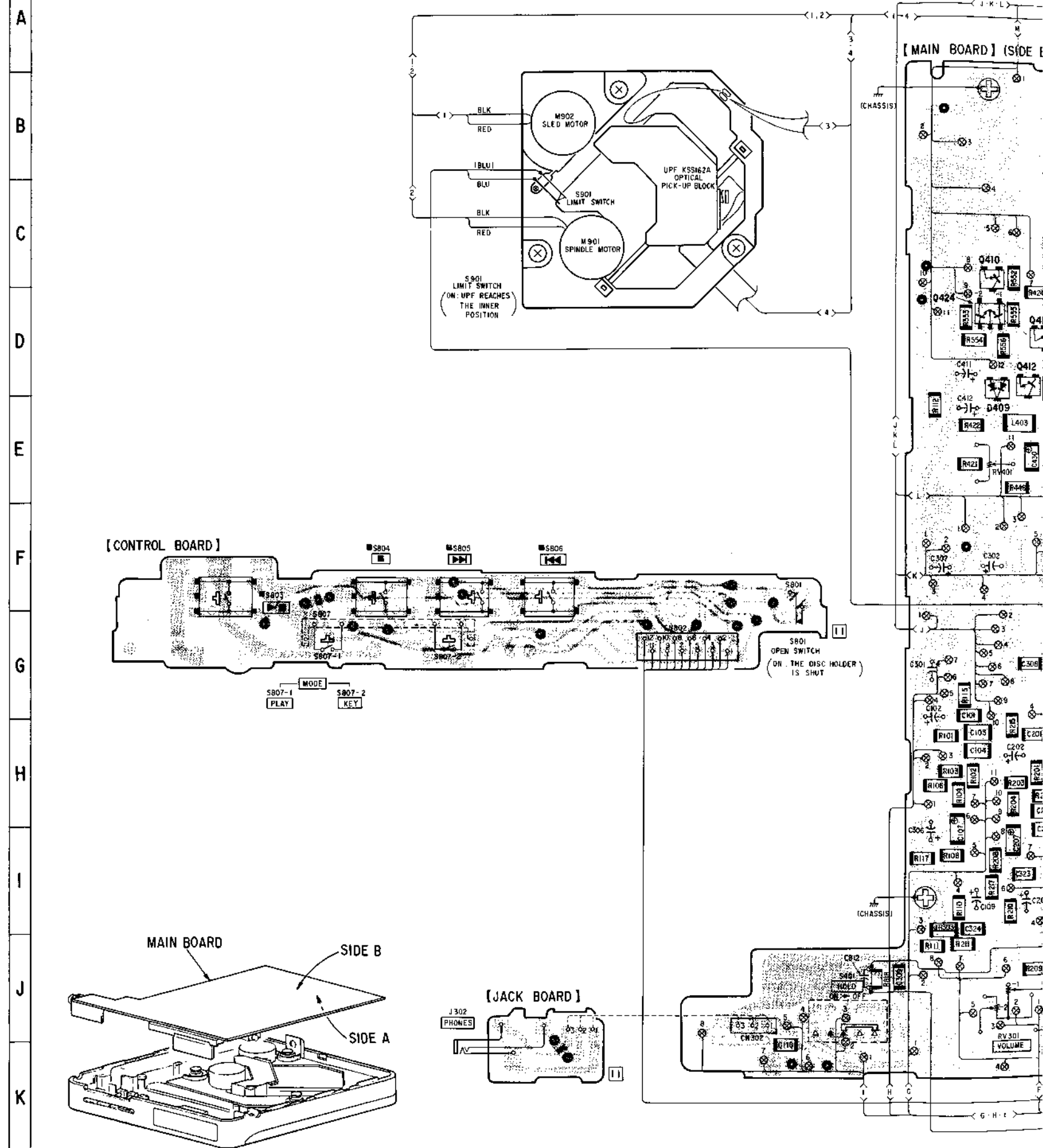
Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

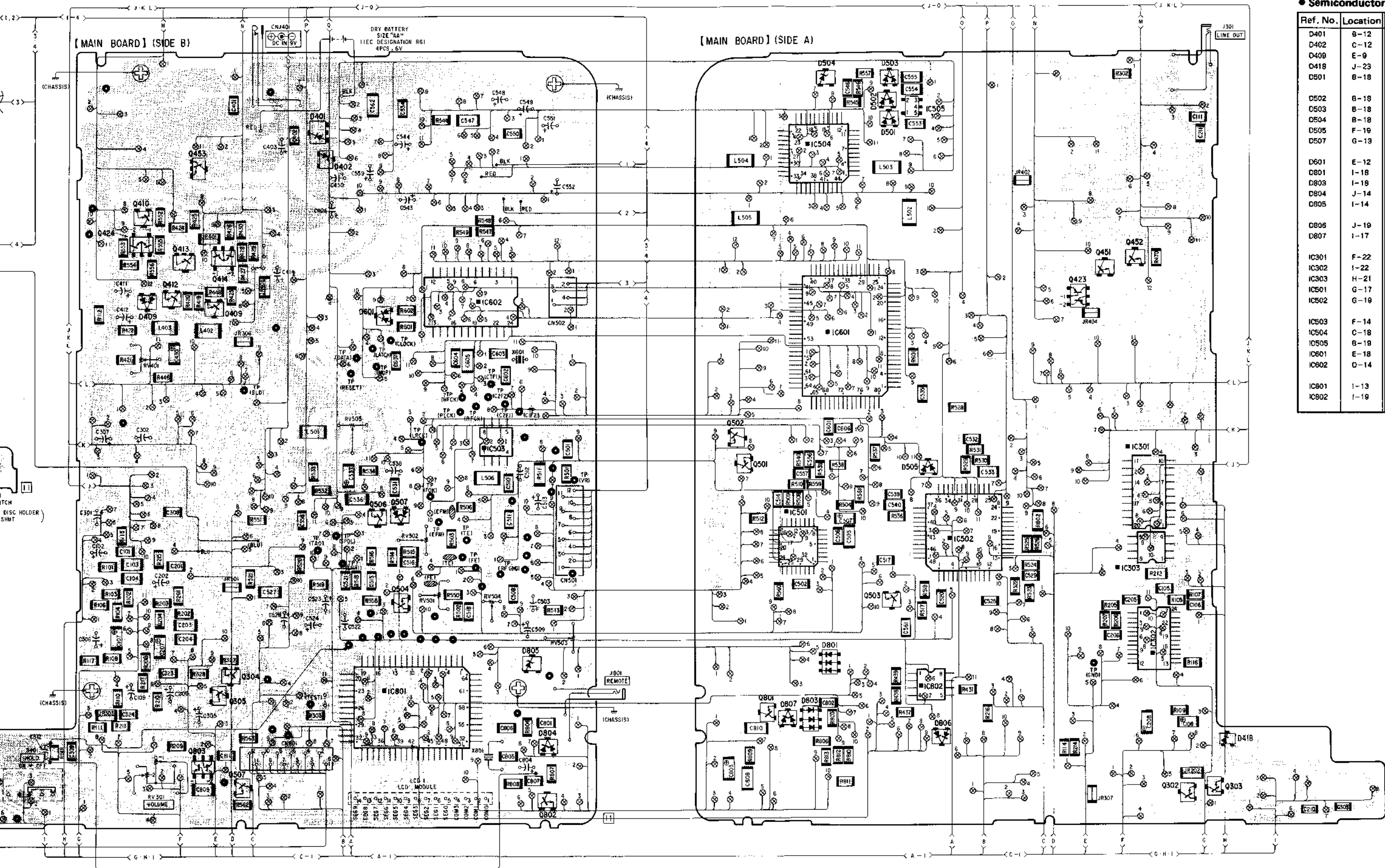
Switch

Ref. No.	Switch	Position
S401	HOLD	OFF
S801	OPEN SWITCH	ON
S803	▶▶	OFF
S804	■	OFF
S805	▶▶	OFF
S806	◀◀	OFF
S807-1	PLAY MODE	OFF
S807-2	KEY MODE	OFF
S901	LIMIT SWITCH	OFF

- : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground in service mode. (See page 5 for set up of service mode.)
no mark : STOP Conditions
() : PLAY Conditions
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ⊗ : CD

4-2. PRINTED WIRING BOARDS

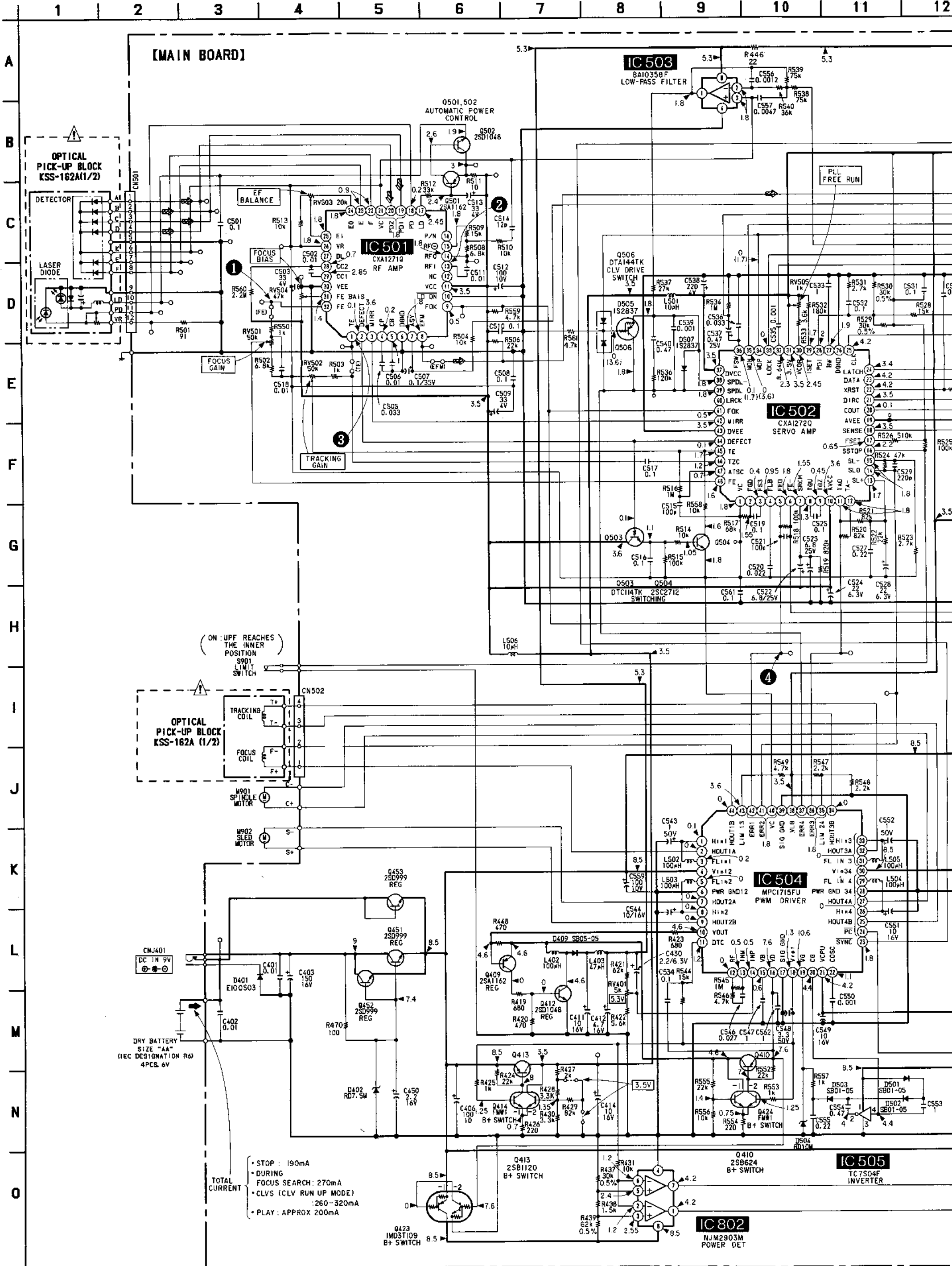




● Semiconductor Location

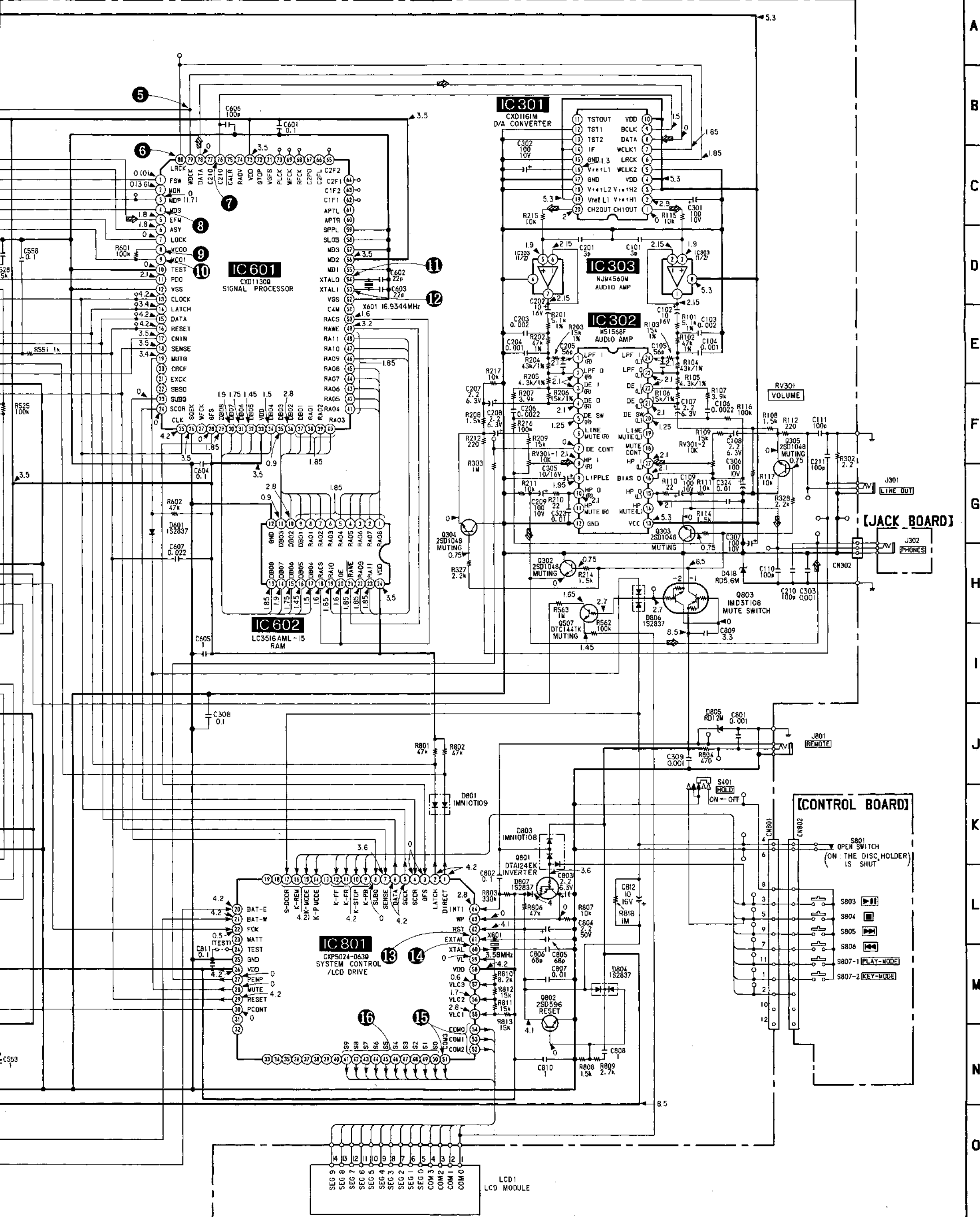
Ref. No.	Location	Ref. No.	Location
D401	B-12	Q302	J-22
D402	C-12	Q303	J-23
D409	E-9	Q304	I-11
D418	J-23	Q305	I-11
D501	B-18	Q409	E-11
D502	B-18	Q410	C-9
D503	B-18	Q412	D-10
D504	B-18	Q413	D-10
D505	F-19	Q414	D-10
D507	G-19	Q423	D-21
D601	E-12	Q424	D-9
D801	I-18	Q451	D-21
D803	I-18	Q452	D-21
D804	J-14	Q453	C-10
D805	I-14	Q501	F-17
D806	J-19	Q502	F-17
D807	I-17	Q503	H-18
		Q504	H-13
		Q506	G-12
		Q507	J-11
IC301	F-22	Q801	I-17
IC302	I-22	Q802	K-14
IC303	H-21	Q803	J-10
IC501	G-17		
IC502	G-19		
IC503	F-14		
IC504	C-18		
IC505	B-19		
IC601	E-18		
IC602	D-14		
IC801	I-13		
IC802	I-19		

4.3. SCHEMATIC DIAGRAM

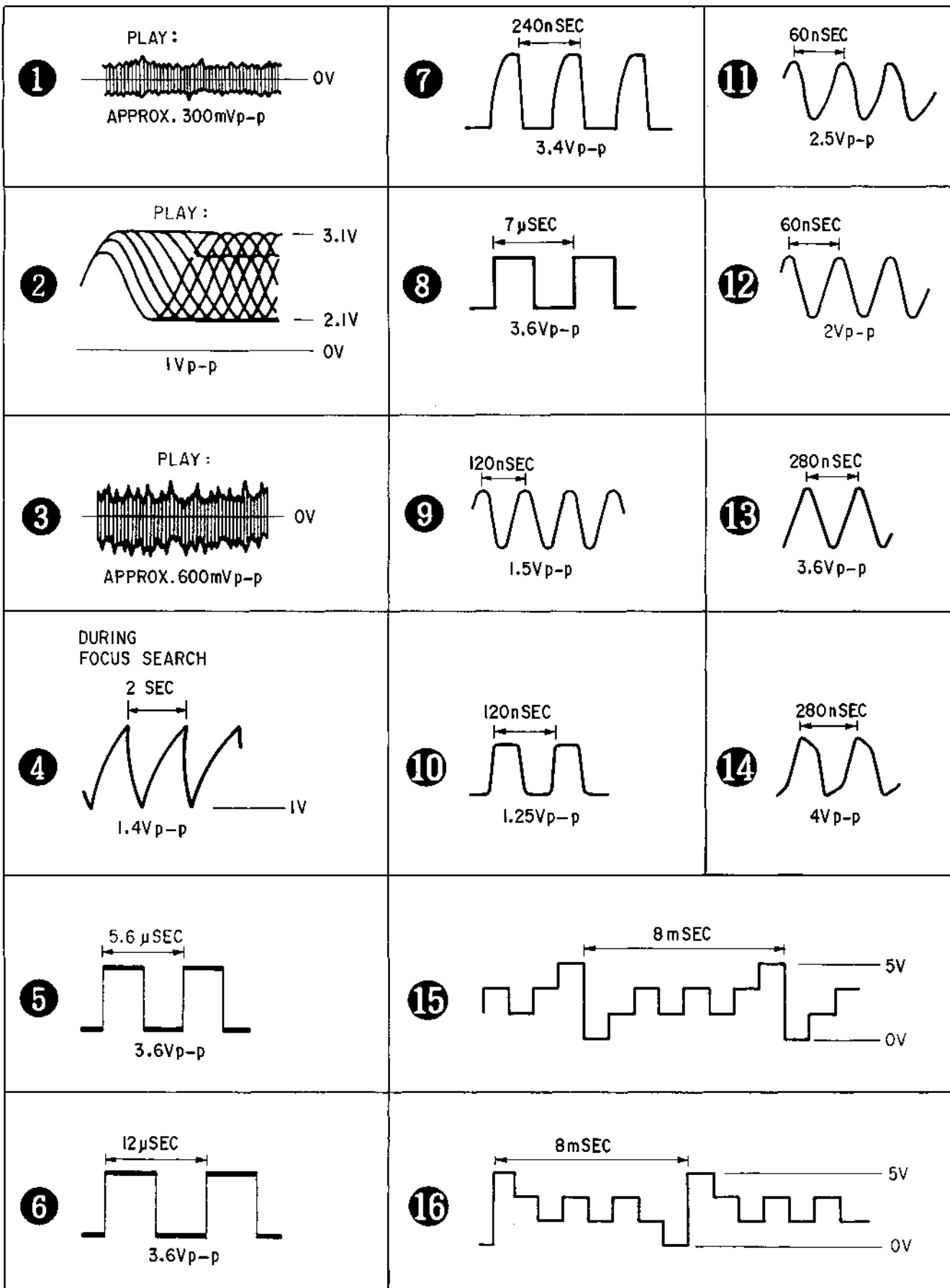


12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

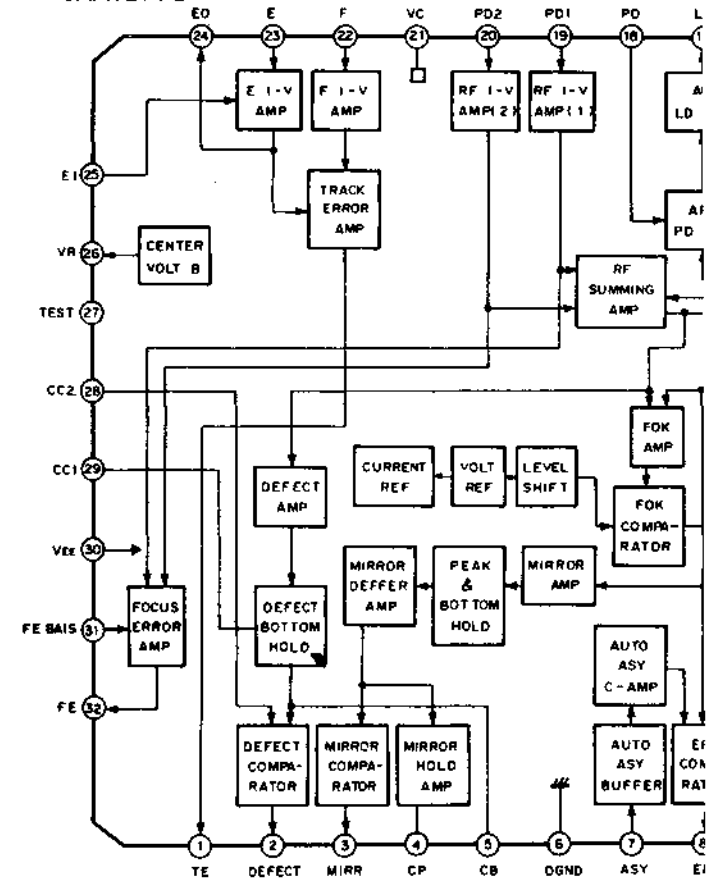


4.4. WAVE FORMS

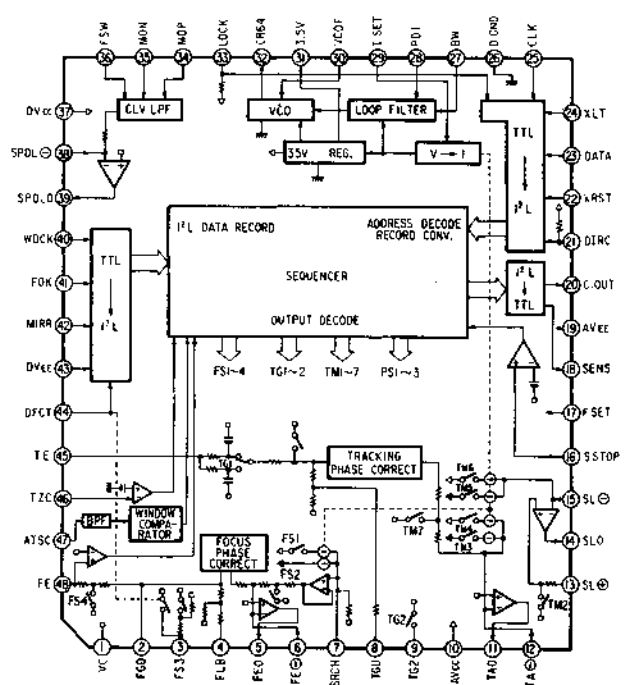


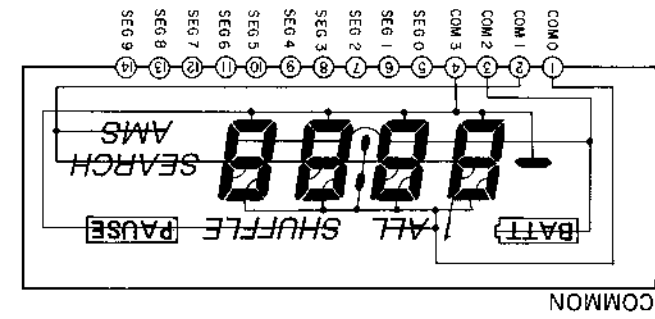
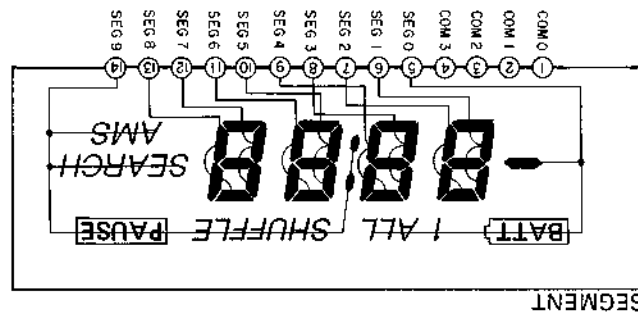
4.5. IC BLOCK DIAGRAM

IC501
CXA1271Q

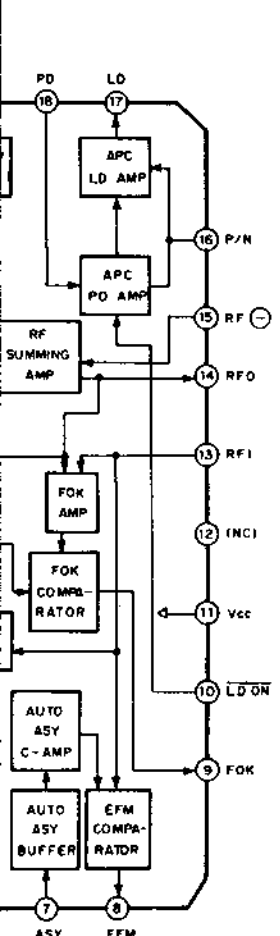


IC502
CXA1272Q-Z

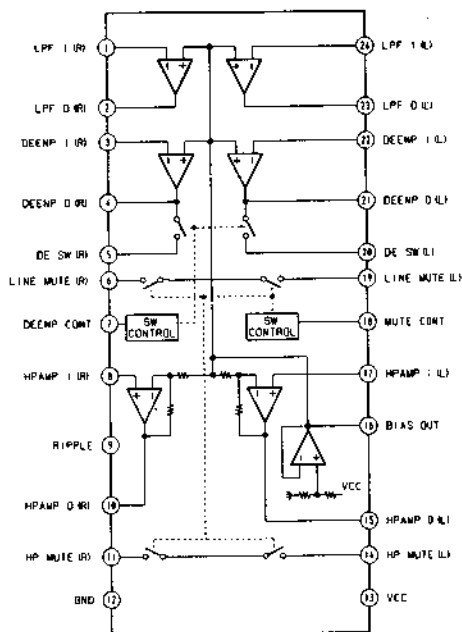




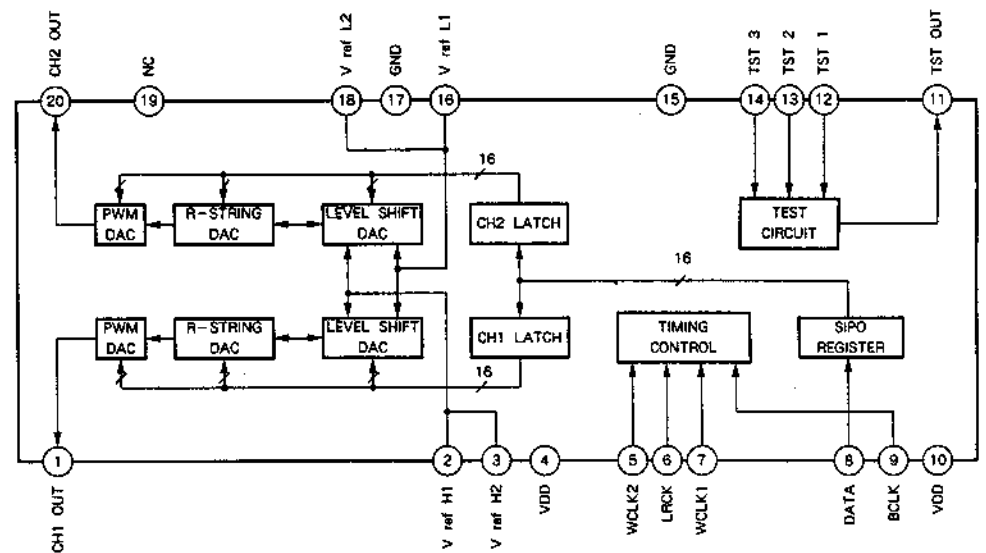
4-6 LCD MODULE



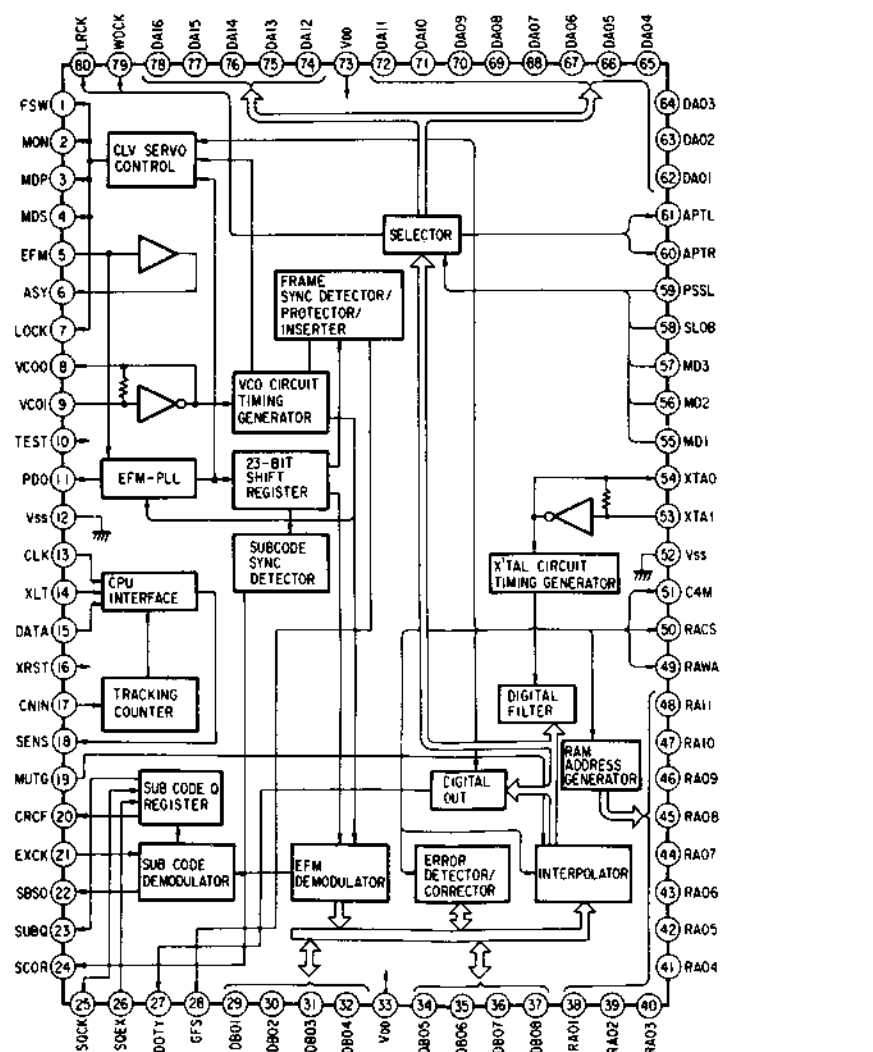
IC302
M51568FP



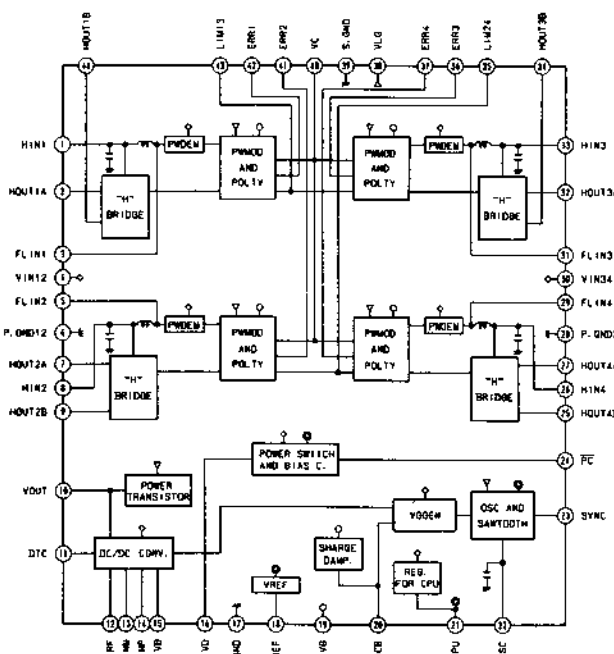
IC301
CXD1161M

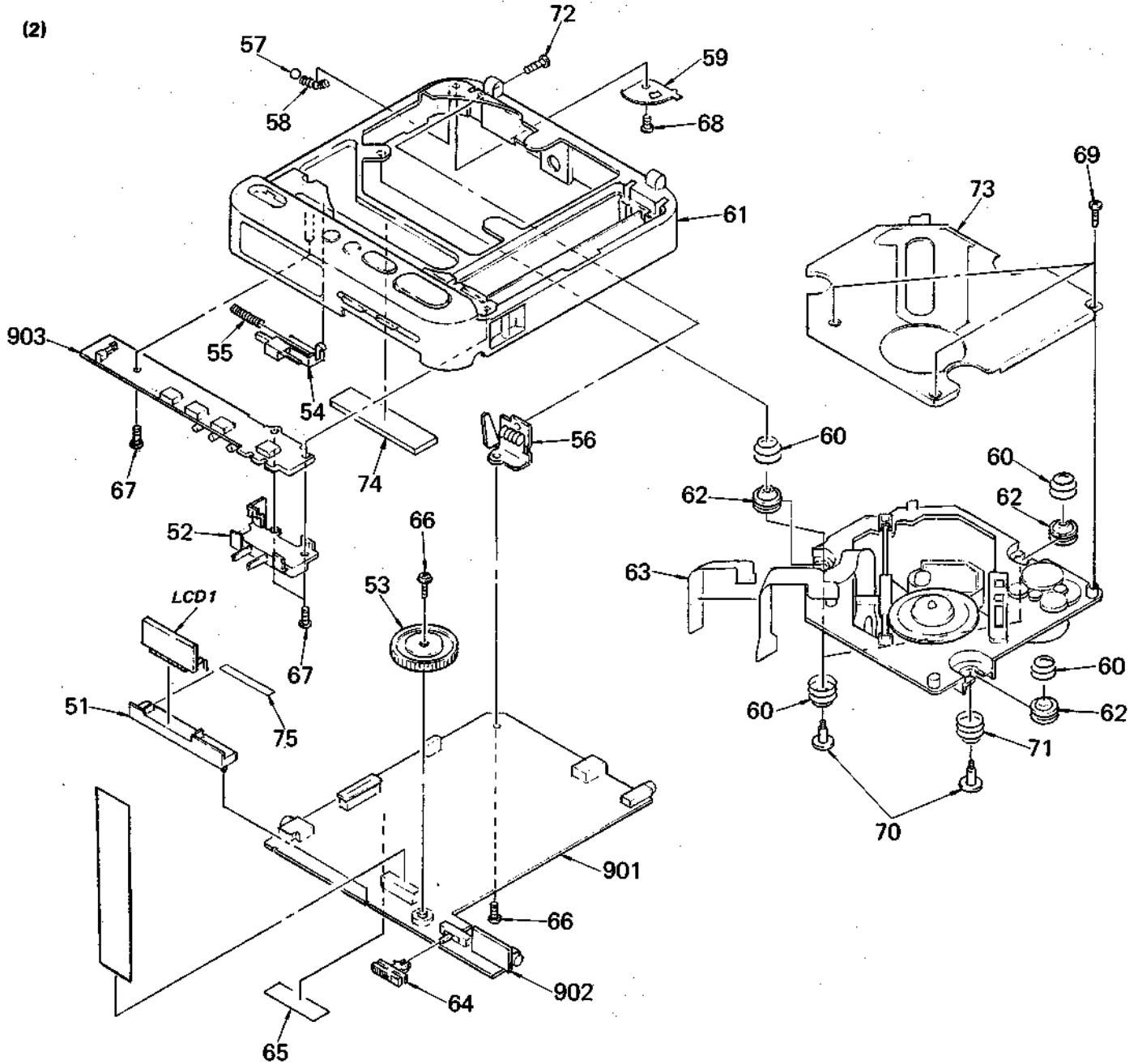


IC601
CXD1130Q



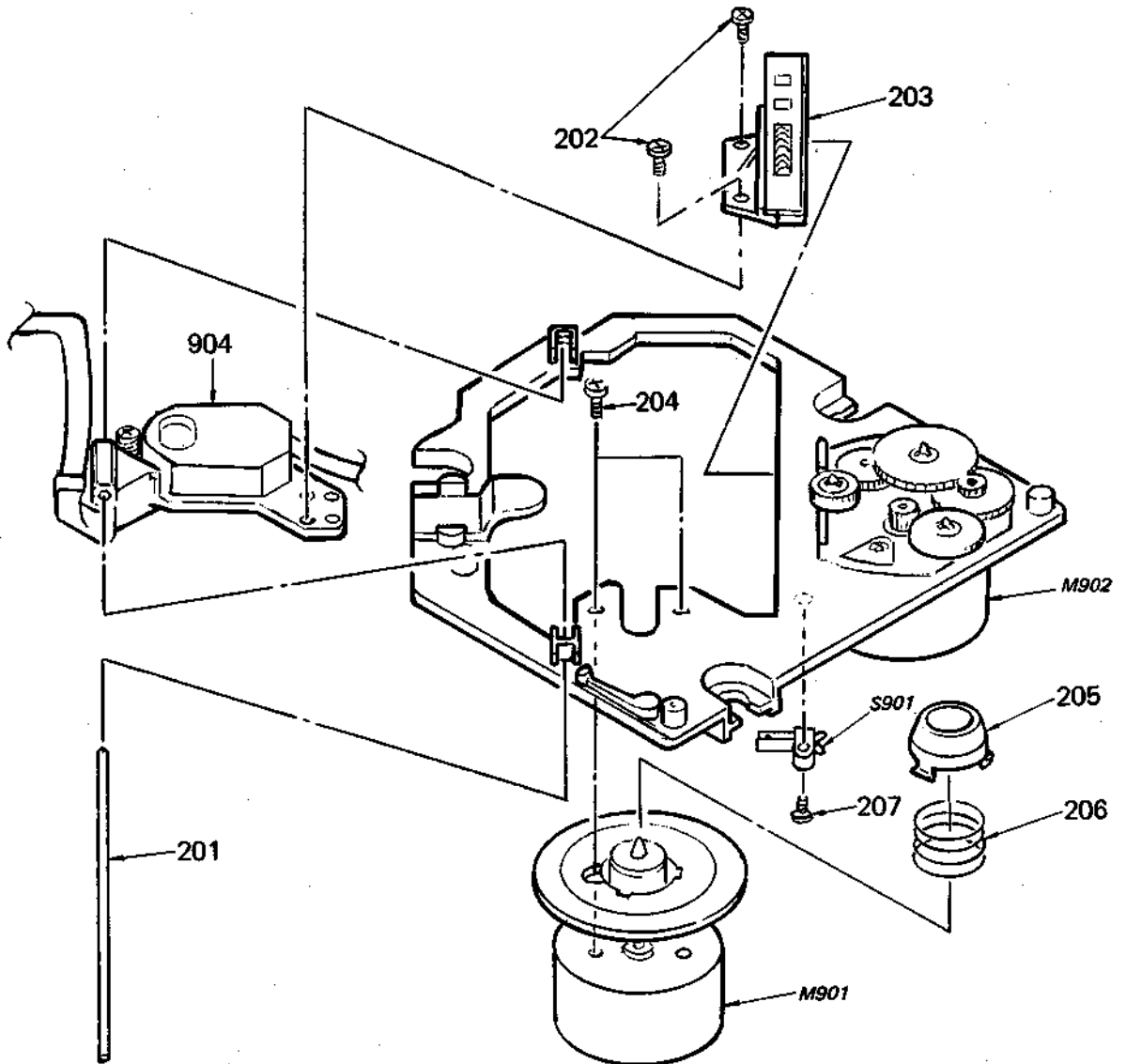
IC504
MPC1715








No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	*4-926-610-01	HOLDER, LCD		67	4-908-792-61	(WHITE)...SCREW (B2X6), TAPPING, P1	
52	4-926-636-01	SUPPORT, JACK		4-908-792-71	(BLACK)...SCREW (B2X6), TAPPING, P1		
53	4-924-732-01	KNOB (VOLUME)		68	4-908-792-01	SCREW (B2X3), TAPPING, P1	
54	4-926-613-01	CLAW, LID LOCK		69	3-893-942-01	(BLACK)...SCREW (1.7X4), TAPPING (B)	
55	4-926-635-01	SPRING, COMPRESSION		3-893-942-31	(WHITE)...SCREW (1.7X4), TAPPING (B)		
56	*X-4924-723-1	SPRING ASSY		70	4-926-718-01	SCREW	
57	7-671-113-02	STEEL BALL 3.0		71	4-926-659-01	SPRING, COMPRESSION	
58	4-926-633-01	SPRING, COMPRESSION		72	3-331-047-07	(BLACK)...SCREW (M1.4X5.5), SPECIAL HEAD	
59	4-926-612-01	RETAINER, BALL		3-331-047-08	(WHITE)...SCREW (M1.4X5.5), SPECIAL HEAD		
60	4-924-710-01	SPRING, COMPRESSION		73	4-924-735-01	(BLACK)...COVER, MD	
61	X-4924-721-1	(BLACK)...CABINET ASSY		4-924-735-11	(WHITE)...COVER, MD		
	X-4924-726-1	(WHITE)...CABINET ASSY (W)		74	*4-924-789-01	SHEET, BLIND	
62	4-924-705-01	INSULATOR		75	4-926-657-11	PLATE, FIXED, LCD	
63	*4-924-761-01	SHEET, PROTECTION		901	A-3015-671-A	PC BOARD ASSY, MAIN	
64	4-924-724-01	KNOB (HOLD)		902	*1-627-307-11	PC BOARD, JACK	
65	3-831-441-XX	CUSHION, SPEAKER		903	*1-627-305-11	PC BOARD, CONTROL	
66	3-335-797-21	SCREW (M1.4X3), TOOTHED LOCK		LCD1	1-808-443-11	DISPLAY PANEL, LIQUID CRYSTAL	

(3) MECHANISM SECTION
(KSM-162AAN)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	2-641-534-01	SHAFT		207	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
202	7-627-852-18	SCREW, PRECISION +P 1.7X4 TYPE3		904	△8-848-081-21	PICKUP, OPTICAL KSS-162A	
203	X-2641-523-1	RACK ASSY		M901	X-2641-521-1	MOTOR ASSY, T.T.	
204	7-627-552-88	SCREW, PRECISION +P 1.7X2.2		M902	X-2641-525-1	MOTOR ASSY	
205	2-641-539-01	RING, CENTER		S901	1-570-112-11	SWITCH, LEAF (LIMIT SWITCH)	
206	2-641-524-01	SPRING (A), COMPRESSION					

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ PF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

• MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
 UA...: μ A..., UPA...: μ PA...,
 UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901	A-3015-671-A	PC BOARD ASSY, MAIN				C502	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
902	*1-627-307-11	PC BOARD, JACK				C503	1-124-431-00	ELECT	33MF	20%	4V
903	*1-627-305-11	PC BOARD, CONTROL				C505	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
904	Δ 8-848-081-21	DEVICE, OPTICAL KSS-162A				C506	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C101	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V	C507	1-135-070-00	TANTAL. CHIP	0.1MF	20%	35V
C102	1-126-157-11	ELECT	10MF	20%	16V	C508	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C103	1-163-212-00	CERAMIC CHIP	0.002MF	5%	50V	C509	1-124-431-00	ELECT	33MF	20%	4V
C104	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V	C510	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C105	1-163-111-00	CERAMIC CHIP	56PF	5%	50V	C511	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C106	1-163-013-00	CERAMIC CHIP	0.0022MF	10%	50V	C512	1-124-584-00	ELECT	100MF	20%	10V
C107	1-135-099-00	TANTAL. CHIP	2.2MF	20%	6.3V	C513	1-124-431-00	ELECT	33MF	20%	4V
C108	1-135-099-00	TANTAL. CHIP	2.2MF	20%	6.3V	C514	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C109	1-124-584-00	ELECT	100MF	20%	10V	C515	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C516	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C111	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C517	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C201	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V	C518	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C202	1-126-157-11	ELECT	10MF	20%	16V	C519	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C203	1-163-212-00	CERAMIC CHIP	0.002MF	5%	50V	C520	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C204	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V	C521	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C205	1-163-111-00	CERAMIC CHIP	56PF	5%	50V	C522	1-124-239-00	ELECT	6.8MF	20%	25V
C206	1-163-013-00	CERAMIC CHIP	0.0022MF	10%	50V	C523	1-124-239-00	ELECT	6.8MF	20%	25V
C207	1-135-099-00	TANTAL. CHIP	2.2MF	20%	6.3V	C524	1-126-153-11	ELECT	22MF	20%	6.3V
C208	1-135-099-00	TANTAL. CHIP	2.2MF	20%	6.3V	C525	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C209	1-124-584-00	ELECT	100MF	20%	10V	C527	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C210	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C528	1-126-153-11	ELECT	22MF	20%	6.3V
C211	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C529	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C301	1-124-584-00	ELECT	100MF	20%	10V	C531	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C302	1-124-584-00	ELECT	100MF	20%	10V	C532	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C303	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C533	1-162-638-11	CERAMIC CHIP	1MF		16V
C305	1-126-157-11	ELECT	10MF	20%	16V	C534	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C306	1-124-584-00	ELECT	100MF	20%	10V	C535	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C307	1-124-584-00	ELECT	100MF	20%	10V	C536	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V
C308	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C537	1-135-145-11	TANTAL. CHIP	0.47MF	20%	25V
C309	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V	C538	1-124-434-00	ELECT	220MF	20%	4V
C323	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C539	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C324	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C540	1-162-637-11	CERAMIC CHIP	0.47MF		16V
C401	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C543	1-124-255-00	ELECT	1MF	20%	50V
C402	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	C544	1-126-157-11	ELECT	10MF	20%	16V
C403	1-126-357-11	ELECT	150MF	20%	16V	C546	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V
C406	1-124-584-00	ELECT	100MF	20%	10V	C547	1-162-638-11	CERAMIC CHIP	1MF		16V
C411	1-126-157-11	ELECT	10MF	20%	16V	C548	1-126-162-11	ELECT	3.3MF	20%	50V
C412	1-126-094-11	ELECT	4.7MF	20%	16V	C549	1-126-157-11	ELECT	10MF	20%	16V
C414	1-126-157-11	ELECT	10MF	20%	16V	C550	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C430	1-135-099-00	TANTAL. CHIP	2.2MF	20%	6.3V	C551	1-126-157-11	ELECT	10MF	20%	16V
C450	1-124-257-00	ELECT	2.2MF	20%	16V	C552	1-124-255-00	ELECT	1MF	20%	50V
C501	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C553	1-162-638-11	CERAMIC CHIP	1MF		16V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description					
C554	1-162-637-11	CERAMIC CHIP 0.47MF			16V	D806	8-719-100-05	DIODE 1S2837					
C555	1-163-081-00	CERAMIC CHIP 0.22MF			25V	D807	8-719-100-05	DIODE 1S2837					
C556	1-163-143-00	CERAMIC CHIP 0.0012MF	10%		50V	IC301	8-759-805-34	IC CXD1161M-3					
C557	1-163-017-00	CERAMIC CHIP 0.0047MF	10%		50V	IC302	8-759-630-75	IC M51568FP					
C558	1-163-038-00	CERAMIC CHIP 0.1MF			25V	IC303	8-759-745-64	IC NJM4560M					
C559	1-124-584-00	ELECT 100MF	20%		10V	IC501	8-752-033-55	IC CXA1271Q					
C561	1-163-038-00	CERAMIC CHIP 0.1MF			25V	IC502	8-752-033-54	IC CXA1272Q-Z					
C562	1-162-638-11	CERAMIC CHIP 1MF			16V	IC503	8-759-970-89	IC BA10358F					
C601	1-163-038-00	CERAMIC CHIP 0.1MF			25V	IC504	8-759-030-17	IC MPC1715FU					
C602	1-163-101-00	CERAMIC CHIP 22PF	5%		50V	IC505	8-759-230-43	IC TC7S04F					
C603	1-163-101-00	CERAMIC CHIP 22PF	5%		50V	IC601	8-759-947-03	IC CX01130Q					
C604	1-163-038-00	CERAMIC CHIP 0.1MF			25V	IC602	8-752-320-44	IC CXK5816M-10L					
C605	1-162-638-11	CERAMIC CHIP 1MF			16V	IC801	8-752-806-14	IC CXP5024-063Q					
C606	1-163-117-00	CERAMIC CHIP 100PF	5%		50V	IC802	8-759-700-07	IC NJM2903M					
C607	1-163-037-11	CERAMIC CHIP 0.022MF	10%		25V	J301	1-565-310-11	JACK (LINE OUT)					
C801	1-163-141-00	CERAMIC CHIP 0.001MF	5%		50V	J302	1-565-311-11	JACK (PHONES)					
C802	1-163-038-00	CERAMIC CHIP 0.1MF			25V	J801	1-562-870-31	JACK (REMOTE)					
C803	1-135-099-00	TANTAL. CHIP 2.2MF	20%		6.3V	JR202	1-216-296-00	METAL GLAZE	0	5%	1/8W		
C804	1-124-257-00	ELECT 2.2MF	20%		50V	JR303	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C805	1-163-113-00	CERAMIC CHIP 68PF	5%		50V	JR306	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C806	1-163-113-00	CERAMIC CHIP 68PF	5%		50V	JR307	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C807	1-163-021-00	CERAMIC CHIP 0.01MF	10%		50V	JR401	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C808	1-162-638-11	CERAMIC CHIP 1MF			16V	JR402	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C809	1-135-092-21	TANTAL. CHIP 3.3MF	20%		16V	JR404	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C810	1-162-638-11	CERAMIC CHIP 1MF			16V	JR406	1-216-295-00	METAL GLAZE	0	5%	1/8W		
C811	1-163-038-00	CERAMIC CHIP 0.1MF			25V	JR501	1-216-295-00	METAL GLAZE	0	5%	1/10W		
C812	1-126-157-11	ELECT 10MF	20%		16V	L402	1-412-038-11	INDUCTOR CHIP 100UH					
CN501	1-566-976-11	SOCKET, CONNECTOR 12P				L403	1-412-037-11	INDUCTOR CHIP 47UH					
CN502	1-565-309-11	CONNECTOR, FLEXIBLE 4P				L501	1-412-036-11	INDUCTOR CHIP 10UH					
CN801	1-563-589-11	CONNECTOR, FLEXIBLE 12P				L502	1-412-039-51	INDUCTOR CHIP 100UH					
CN802	1-563-615-11	CONNECTOR, FLEXIBLE 12P				L503	1-412-038-11	INDUCTOR CHIP 100UH					
CNJ401	1-562-961-11	JACK (DC IN 9V)				L504	1-412-038-11	INDUCTOR CHIP 100UH					
D401	8-719-200-36	DIODE E100S04				L505	1-412-039-51	INDUCTOR CHIP 100UH					
D402	8-719-106-22	DIODE RD7.5M-B1				L506	1-412-036-11	INDUCTOR CHIP 10UH					
D409	8-719-938-75	DIODE S805-05CP				LCD1	1-808-443-11	DISPLAY PANEL, LIQUID CRYSTAL					
D418	8-719-105-91	DIODE RD5.6M-B2				M901	X-2641-521-1	MOTOR ASSY, T.T.					
D501	8-719-938-72	DIODE S801-05CP				M902	X-2641-525-1	MOTOR ASSY					
D502	8-719-938-72	DIODE S801-05CP				Q302	8-729-159-64	TRANSISTOR 2SD596					
D503	8-719-938-72	DIODE S801-05CP				Q303	8-729-159-64	TRANSISTOR 2SD596					
D504	8-719-106-53	DIODE RD10M-B2				Q304	8-729-159-64	TRANSISTOR 2SD596					
D505	8-719-100-05	DIODE 1S2837				Q305	8-729-159-64	TRANSISTOR 2SD596					
D507	8-719-100-05	DIODE 1S2837				Q409	8-729-100-76	TRANSISTOR 2SA812					
D601	8-719-100-05	DIODE 1S2837				Q410	8-729-800-68	TRANSISTOR 2SB815					
D801	8-719-951-22	DIODE 1MN10				Q412	8-729-159-64	TRANSISTOR 2SD596					
D803	8-719-951-22	DIODE 1MN10				Q413	8-729-806-75	TRANSISTOR 2SB1120					
D804	8-719-100-05	DIODE 1S2837				Q414	8-729-903-10	TRANSISTOR FMW1					
D805	8-719-106-71	DIODE RD12M-B2											

Ref.No.	Part No.	Description
Q423	8-729-907-28	TRANSISTOR IMD3
Q424	8-729-903-10	TRANSISTOR FMW1
Q451	8-729-199-92	TRANSISTOR 2SD999
Q452	8-729-199-92	TRANSISTOR 2SD999
Q453	8-729-199-92	TRANSISTOR 2SD999
Q501	8-729-100-76	TRANSISTOR 2SA812
Q502	8-729-159-64	TRANSISTOR 2SD596
Q503	8-729-902-99	TRANSISTOR DTC114TK
Q504	8-729-271-23	TRANSISTOR 2SC2712
Q506	8-729-903-29	TRANSISTOR DTA144TK
Q507	8-729-903-30	TRANSISTOR DTC144TK
Q801	8-729-901-05	TRANSISTOR DTA124EK
Q802	8-729-159-64	TRANSISTOR 2SD596
Q803	8-729-907-28	TRANSISTOR IMD3
R101	1-216-329-11	METAL GLAZE 5.1K 1% 1/10W
R102	1-216-336-11	METAL GLAZE 47K 1% 1/10W
R103	1-216-333-11	METAL GLAZE 15K 1% 1/10W
R104	1-218-160-11	METAL GLAZE 43K 1% 1/10W
R105	1-216-328-11	METAL GLAZE 4.3K 1% 1/10W
R106	1-216-333-11	METAL GLAZE 15K 1% 1/10W
R107	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R108	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R109	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R110	1-216-009-00	METAL GLAZE 22 5% 1/10W
R111	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R112	1-216-033-00	METAL GLAZE 220 5% 1/10W
R114	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R115	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R116	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R117	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R201	1-216-329-11	METAL GLAZE 5.1K 1% 1/10W
R202	1-216-336-11	METAL GLAZE 47K 1% 1/10W
R203	1-216-333-11	METAL GLAZE 15K 1% 1/10W
R204	1-218-160-11	METAL GLAZE 43K 1% 1/10W
R205	1-216-328-11	METAL GLAZE 4.3K 1% 1/10W
R206	1-216-333-11	METAL GLAZE 15K 1% 1/10W
R207	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R208	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R209	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R210	1-216-009-00	METAL GLAZE 22 5% 1/10W
R211	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R212	1-216-182-00	METAL GLAZE 220 5% 1/8W
R214	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R215	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R216	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R217	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R302	1-216-298-00	METAL GLAZE 2.2 5% 1/10W



Ref.No.	Part No.	Description
R303	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R327	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R328	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R419	1-216-045-00	METAL GLAZE 680 5% 1/10W
R420	1-216-041-00	METAL GLAZE 470 5% 1/10W
R421	1-216-092-00	METAL GLAZE 62K 5% 1/10W
R422	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W
R423	1-216-045-00	METAL GLAZE 680 5% 1/10W
R424	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R425	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R426	1-216-033-00	METAL GLAZE 220 5% 1/10W
R427	1-216-056-00	METAL GLAZE 2K 5% 1/10W
R428	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R429	1-216-095-00	METAL GLAZE 82K 5% 1/10W
R430	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R431	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R437	1-216-686-11	METAL CHIP 30K 0.50% 1/10W
R438	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R439	1-216-694-11	METAL CHIP 62K 0.50% 1/10W
R446	1-216-009-00	METAL GLAZE 22 5% 1/10W
R448	1-216-041-00	METAL GLAZE 470 5% 1/10W
R480	1-216-025-00	METAL GLAZE 100 5% 1/10W
R501	1-216-024-00	METAL GLAZE 91 5% 1/10W
R502	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R503	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R504	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R506	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R508	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R509	1-216-077-00	METAL GLAZE 15K 5% 1/10W
R510	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R511	1-216-150-00	METAL GLAZE 10 5% 1/8W
R512	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R513	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R514	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R515	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R516	1-216-121-00	METAL GLAZE 1M 5% 1/10W
R517	1-216-093-00	METAL GLAZE 68K 5% 1/10W
R518	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R519	1-216-119-00	METAL GLAZE 820K 5% 1/10W
R520	1-216-095-00	METAL GLAZE 82K 5% 1/10W
R521	1-216-095-00	METAL GLAZE 82K 5% 1/10W
R522	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R523	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R524	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R525	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R526	1-216-114-00	METAL GLAZE 510K 5% 1/10W


Ref.No.	Part No.	Description				
R528	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R529	1-216-686-11	METAL CHIP	30K	0.50%	1/10W	
R530	1-216-686-11	METAL CHIP	30K	0.50%	1/10W	
R531	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R532	1-216-103-00	METAL GLAZE	180K	5%	1/10W	
R533	1-216-062-00	METAL GLAZE	3.6K	5%	1/10W	
R534	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R536	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R537	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R538	1-216-094-00	METAL GLAZE	75K	5%	1/10W	
R539	1-216-094-00	METAL GLAZE	75K	5%	1/10W	
R540	1-216-086-00	METAL GLAZE	36K	5%	1/10W	
R544	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R545	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R546	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R547	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R548	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R549	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R550	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R551	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R552	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R553	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R554	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R555	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R556	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R557	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R558	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R559	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R560	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R561	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R562	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R563	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R601	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R602	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R801	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R802	1-216-238-00	METAL GLAZE	47K	5%	1/8W	
R803	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R804	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R806	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R807	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R808	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R809	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R810	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R811	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R812	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R813	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R818	1-216-121-00	METAL GLAZE	1M	5%	1/10W	

Ref.No.	Part No.	Description
RV301	1-237-092-11	RES, VAR, CARBON 10K/10K (VOLUME)
RV401	1-228-993-00	RES, ADJ, CARBON 5K
RV501	1-228-996-00	RES, ADJ, CARBON 50K
RV502	1-228-996-00	RES, ADJ, CARBON 50K
RV503	1-228-995-00	RES, ADJ, CARBON 20K
RV504	1-230-526-11	RES, ADJ, METAL GLAZE 47K
RV505	1-228-990-00	RES, ADJ, CARBON 1K
S401	1-571-177-11	SWITCH, SLIDE (HOLD)
S801	1-554-911-11	SWITCH, LEAF (OPEN SWITCH)
S803	1-554-371-51	SWITCH, TACT (PLAY/PAUSE)
S804	1-554-371-51	SWITCH, TACT (STOP)
S805	1-554-371-51	SWITCH, TACT (FF)
S806	1-554-371-51	SWITCH, TACT (FR)
S807	1-571-484-11	SWITCH, KEY BOARD (PLAY MODE/KEY MODE)
S901	1-570-112-11	SWITCH, LEAF (LIMIT)
X601	1-567-737-11	VIBRATOR, CRYSTAL 16.9344MHZ
X801	1-567-094-00	VIBRATOR, CERAMIC 3.58MHZ

ACCESSORY & PACKING MATERIAL

- △ 1-463-694-11 (Canadian).....ADAPTOR, AC (AC-930A)
- △ 1-463-700-11 (UK).....ADAPTOR, AC (AC-930A)
- △ 1-463-701-11 (Austrian)....ADAPTOR, AC (AC-930A)
- △ 1-463-702-11 (E).....ADAPTOR, AC (AC-950W)
- △ 1-463-705-11 (AEP).....ADAPTOR, AC (AC-940AEP)
- △ 1-463-968-11 (US).....ADAPTOR, AC (AC-940)
- △ 1-526-565-00 (E).....AC PLUG ADAPTOR
- 1-555-658-21 CORD, CONNECTION
- 3-786-277-11 (AEP,UK,E,Austrian)..MANUAL, INSTRUCTION
- 3-786-277-21 (US,Canadian)..MANUAL, INSTRUCTION
- 3-786-277-31 (Canadian)....MANUAL, INSTRUCTION
- 3-786-277-41 (AEP).....MANUAL, INSTRUCTION
- 3-786-356-11 (UK)...INSTRUCTION
- *4-920-407-01 BAG, PROTECTION
- 4-924-126-01 BELT, CARRYING
- 8-952-266-89 (UK)...HEADPHONE MDR-A10L/A SET

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.