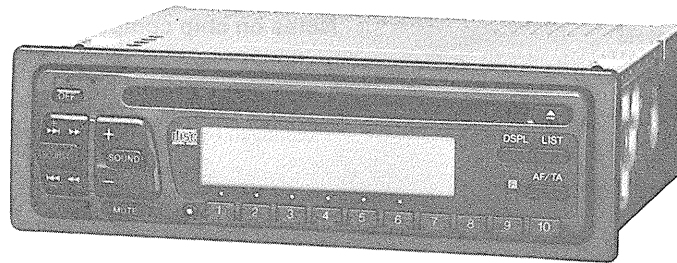


CDX-C810DSP

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model



Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-333X-121
Optical Pick-Up Name	KSS-520A

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US, Canadian model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

15 watts per channel minimum continuous average power into
4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than
1 % total harmonic distortion.

CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5–107.9 MHz (US, Canadian model) 87.5–108.0 MHz (AEP, UK, German model)
Aerial terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM (US, Canadian model)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 μ V

MW/LW (SW*) (AEP, UK, German model)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz SW: 5,950 – 6,205 kHz
Aerial terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 μ V LW: 50 μ V SW: 50 μ V

* For the models for Germany, Switzerland and Austria.

– Continued on next page –

FM/AM (MW/LW/(SW)) COMPACT DISC PLAYER
SONY®



SERVICING NOTES

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W x 4 (at 4 ohms)

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 x 58 x 177 mm (7 $\frac{1}{2}$ x 2 $\frac{3}{8}$ x 7 in.) (w/h/d)
Mounting dimensions	Approx. 178 x 50 x 154 mm (7 $\frac{1}{8}$ x 2 x 6 $\frac{1}{8}$ in.) (w/h/d)
Mass	Approx. 1.5 kg (3 lb. 4.9 oz.)
Supplied accessories	Rotary remote (1) Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

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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.

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.

Laser Diode Properites

- Material: GaAlAs
 - Wavelength: 780 nm
 - Emission Duration: continuous
 - Laser Output Power: less than 44.6 μ W*
- * This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

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

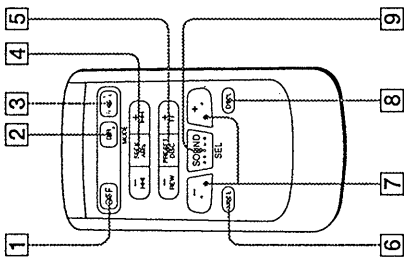
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ 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 $\triangle$ 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.

Optional wireless remote (RM-X41)

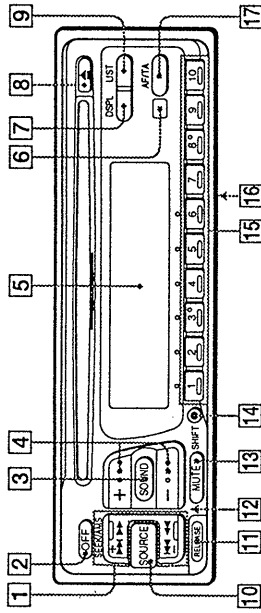


The buttons of the wireless remote work the same functions as those on this unit.

- 1 OFF button
 - 2 DIR button
 - 3 SOURCE button
 - 4 SEEK/AMS button
 - 5 PRESET/DISC button
 - 6 MUTE button
 - 7 - (+) buttons
 - 8 DSPL button
 - 9 SOUND button
- You cannot do the manual search and manual tuning with the remote.*

When the POWER SELECT switch is set to the ① position, the unit cannot be operated with the wireless remote unless (SOURCE) on the unit is pressed or a CD is inserted to activate the unit first.

Location of controls



Refer to the pages for details.

- 1 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 5, 6, 7, 8, 9, 12, 19, 20, 21, 23
- 2 OFF button 4, 5
- 3 SOUND button 13, 14, 15, 16, 17
- 4 (+) (-) (volume/surround menu/listening position/sub output level/bass/trable/balance/fader control) buttons 5, 13, 14, 15, 16, 17, 22
- 5 Display window
- 6 Receptor for the optional wireless remote
- 7 DSPL (display mode change) button 5, 9, 18, 19, 22
- 8 (eject) button 5
- 9 LIST button
- 10 Disc Memo 22
- 11 List-up 22
- 12 RDS Programme 12
- 13 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 5, 8, 9, 11, 13, 15, 18, 20, 22
- 14 RELEASE (front panel release) button 4, 25
- 15 Reset button (located on the front side of the unit hidden by the front panel) 4
- 16 MUTE button 17
- 17 SHIFT button
- BTM 8, 11
- PLAY MODE 6, 7, 8, 9, 10, 13, 19, 20, 21, 23
- SET UP 5, 12, 18
- During radio reception: Number buttons 8, 9
- During CD/MD playback: Direct disc selection buttons 19
- POWER SELECT switch (located on the bottom of the unit) See "POWER SELECT Switch" in the installation/Connections manual.
- 17 AF/TA button 10, 11 (AEP, UK, German model only)

EN

EN

Additional Information

SECTION 1 GENERAL

This section is extracted from instruction manual.

Installation

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be done only by service technicians.
- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

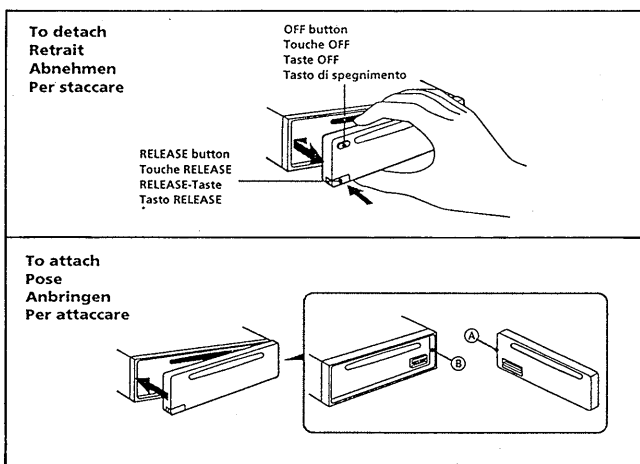
Before installing the unit, detach the front panel.

To detach

Before detaching the front panel, be sure to press the OFF button to turn off the unit. Then press the RELEASE button, slide the front panel a little to the left, and pull it off toward you.

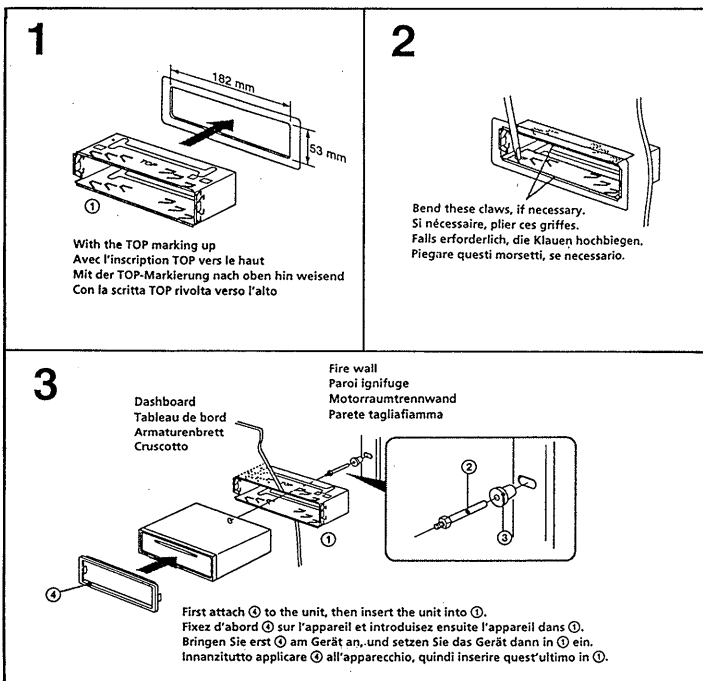
To attach

Align the parts (A) and (B), and push the front panel until it clicks.



Mounting Example

Installation in the dashboard



Connections

Caution

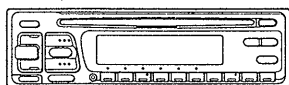
- This unit is designed for negative ground 12 V DC operation only.
- Connect the power connecting cord ⑥ to the unit and speakers before connecting it to the auxiliary power connector.
- Run all ground wires to a common ground point.

If Your Car has No Accessory Position on the Ignition Key Switch — POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ① position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

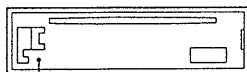
Note
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ① position.

Change the position with a jeweler's screwdriver, etc.
Changer la position avec un tournevis de joaillier ou un objet similaire.
Den Schalter mit einem kleinen Schraubenzieher o.ä. umstellen.
Cambiare la posizione con un cacciavite da gioielliere, ecc.



Reset Button

When the installation and connections are over, be sure to press the reset button with a ballpoint pen etc.



Reset button
Touche de réinitialisation
Rücksetztaste
Pulsante di azzeramento

Note on the control leads

The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency) or the TA (Traffic Announcement) function.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

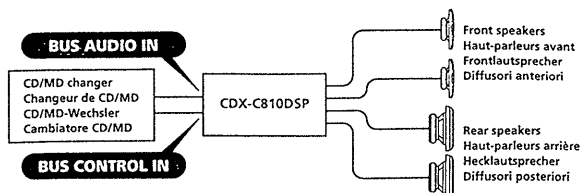
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Warning

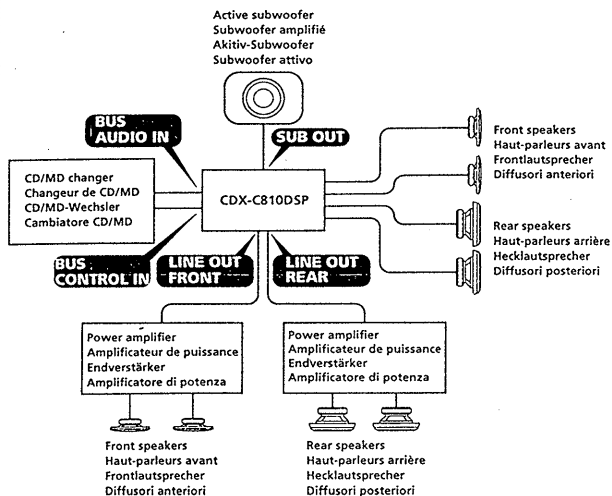
If you have a power antenna without a relay box, connecting this unit with the supplied power connecting cord ⑥ may damage the antenna.

Connection Diagram Schémas de connexion Anschlußdiagramm Schema di collegamento

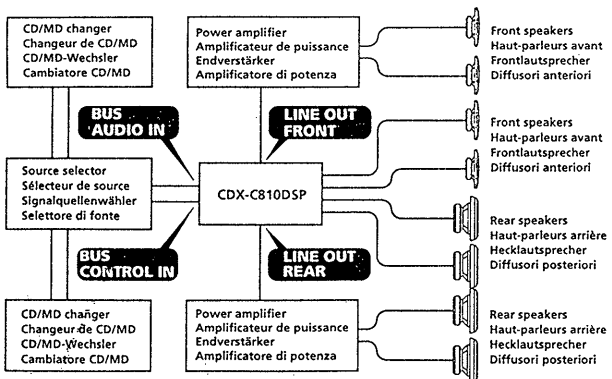
Example 1/Exemple 1/Beispiel 1/Esempio 1



Example 2/Exemple 2/Beispiel 2/Esempio 2



Example 3/Exemple 3/Beispiel 3/Esempio 3



For connecting two or more changers, the source selector XA-U20 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.

Pour le raccordement de deux ou plusieurs changeurs, vous devez utiliser le sélecteur de source XA-U20 (optionnel) et le câble BUS RC-61 (1 m) ou RC-62 (2 m) (optionnels).

Zum Anschluß von zwei oder mehr werden der Signalquellenwähler XA-U20 (getrennt erhältlich) und das Kabel RC-61 (1 m) oder RC-62 (2 m) (getrennt erhältlich) benötigt.

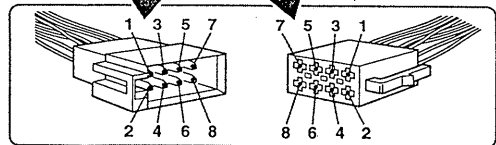
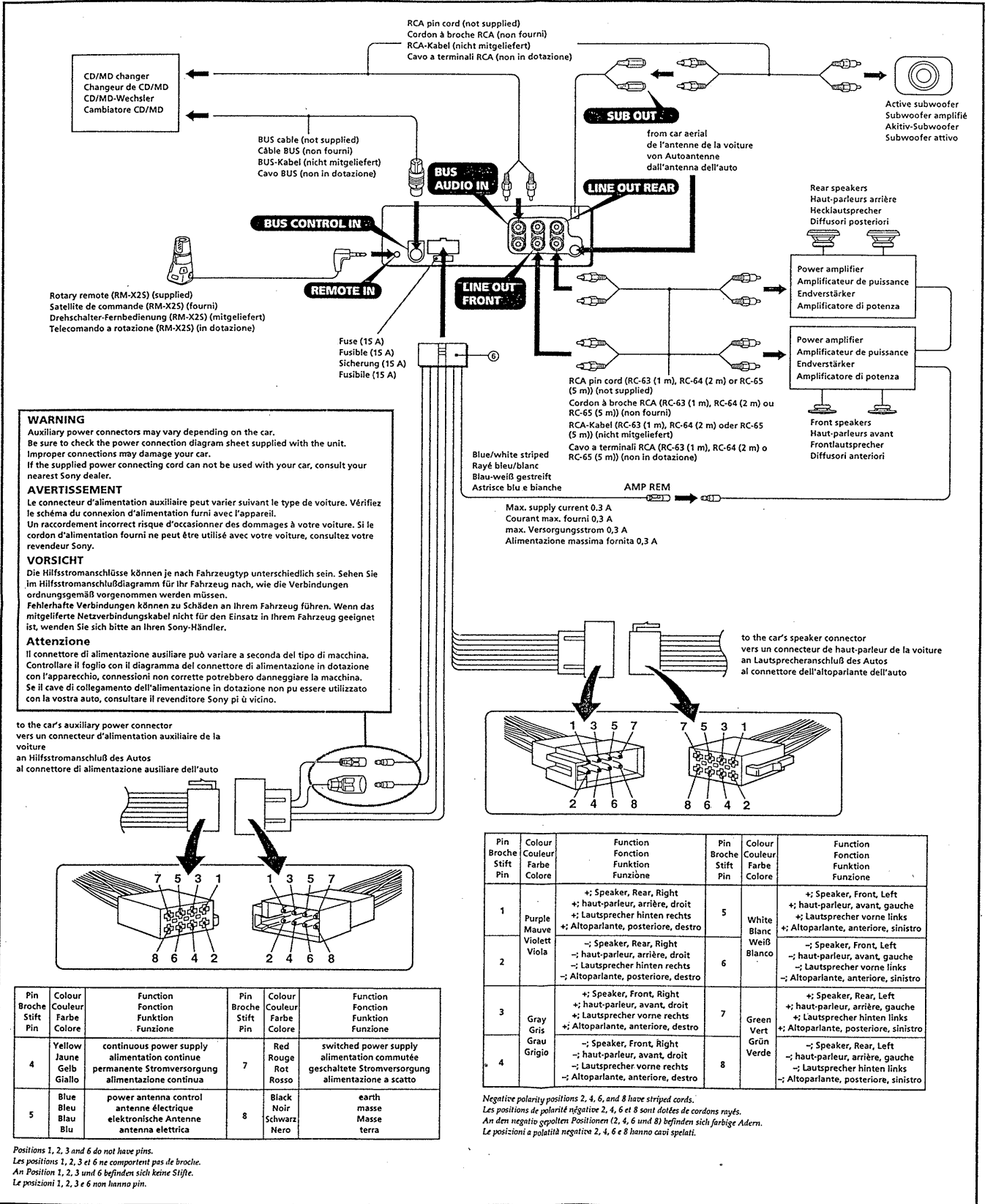
Se si collegano due o più cambi CD o MD, si devono utilizzare il selettore di fonte XA-U20 (opzionale) e il cavo BUS RC-61 (1 m) o RC-62 (2 m) (opzionali).

Connections of Example

Connexions de l'exemple

Anschlußbeispiel

Esempi di Collegamento



Pin Broche Stift Pin	Colour Couleur Farbe Colore	Function Fonction Funktion Funzione	Pin Broche Stift Pin	Colour Couleur Farbe Colore	Function Fonction Funktion Funzione
1	Purple Mauve Violet Viola	+: Speaker, Rear, Right +: haut-parleur, arrière, droit +: Lautsprecher hinten rechts +: Altoparlante, posteriore, destro	5	White Blanc Weiß Bianco	+: Speaker, Front, Left +: haut-parleur, avant, gauche +: Lautsprecher vorne links +: Altoparlante, anteriore, sinistro
2		-: Speaker, Rear, Right -: haut-parleur, arrière, droit -: Lautsprecher hinten rechts -: Altoparlante, posteriore, destro	6		-: Speaker, Front, Left -: haut-parleur, avant, gauche -: Lautsprecher hinten links -: Altoparlante, anteriore, sinistro
3	Gray Gris Grau Grigio	+: Speaker, Front, Right +: haut-parleur, avant, droit +: Lautsprecher vorne rechts +: Altoparlante, anteriore, destro	7	Green Vert Grün Verde	+: Speaker, Rear, Left +: haut-parleur, arrière, gauche +: Lautsprecher hinten links +: Altoparlante, posteriore, sinistro
4		-: Speaker, Front, Right -: haut-parleur, avant, droit -: Lautsprecher vorne rechts -: Altoparlante, anteriore, destro	8		-: Speaker, Rear, Left -: haut-parleur, arrière, gauche -: Lautsprecher hinten links -: Altoparlante, posteriore, sinistro

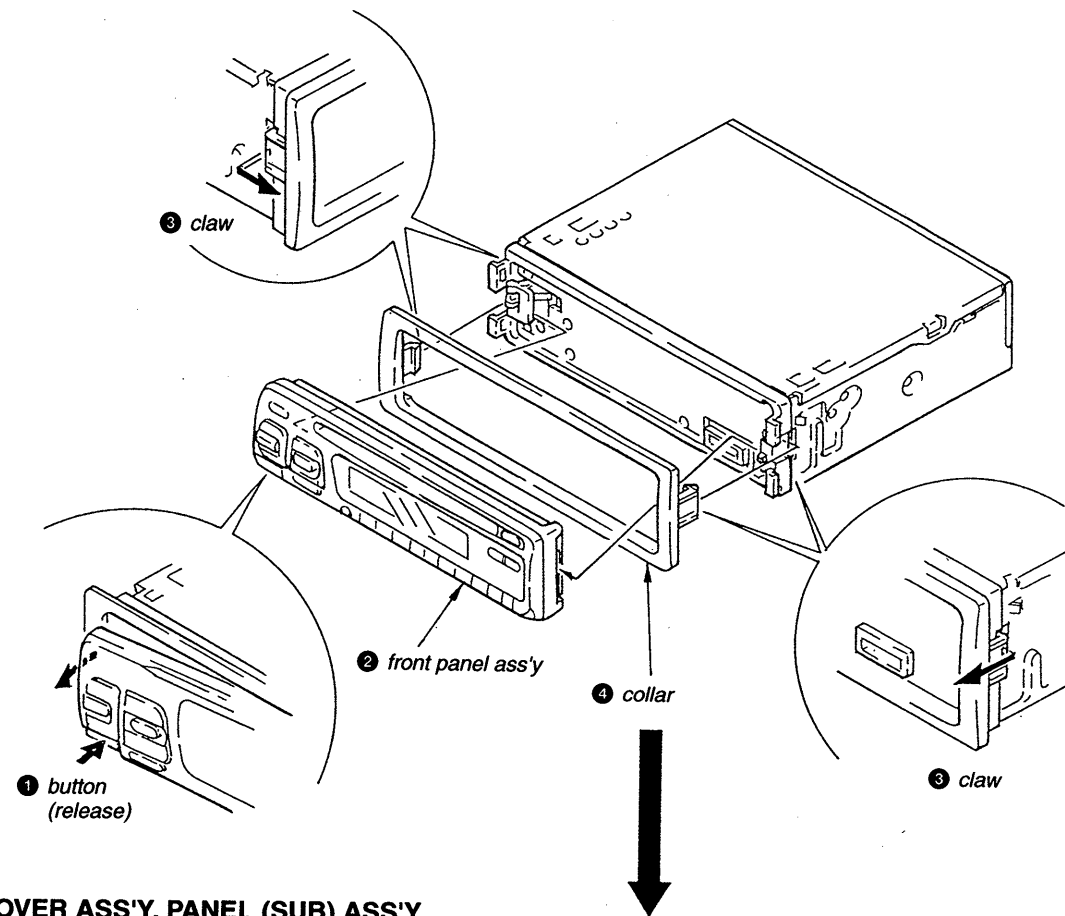
Negative polarity positions 2, 4, 6, and 8 have striped cords.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
An den negativ gepolten Positionen (2, 4, 6 und 8) befinden sich farbige Adern.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi speltati.

Positions 1, 2, 3 and 6 do not have pins.
Les positions 1, 2, 3 et 6 ne comportent pas de broche.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Le posizioni 1, 2, 3 e 6 non hanno pin.

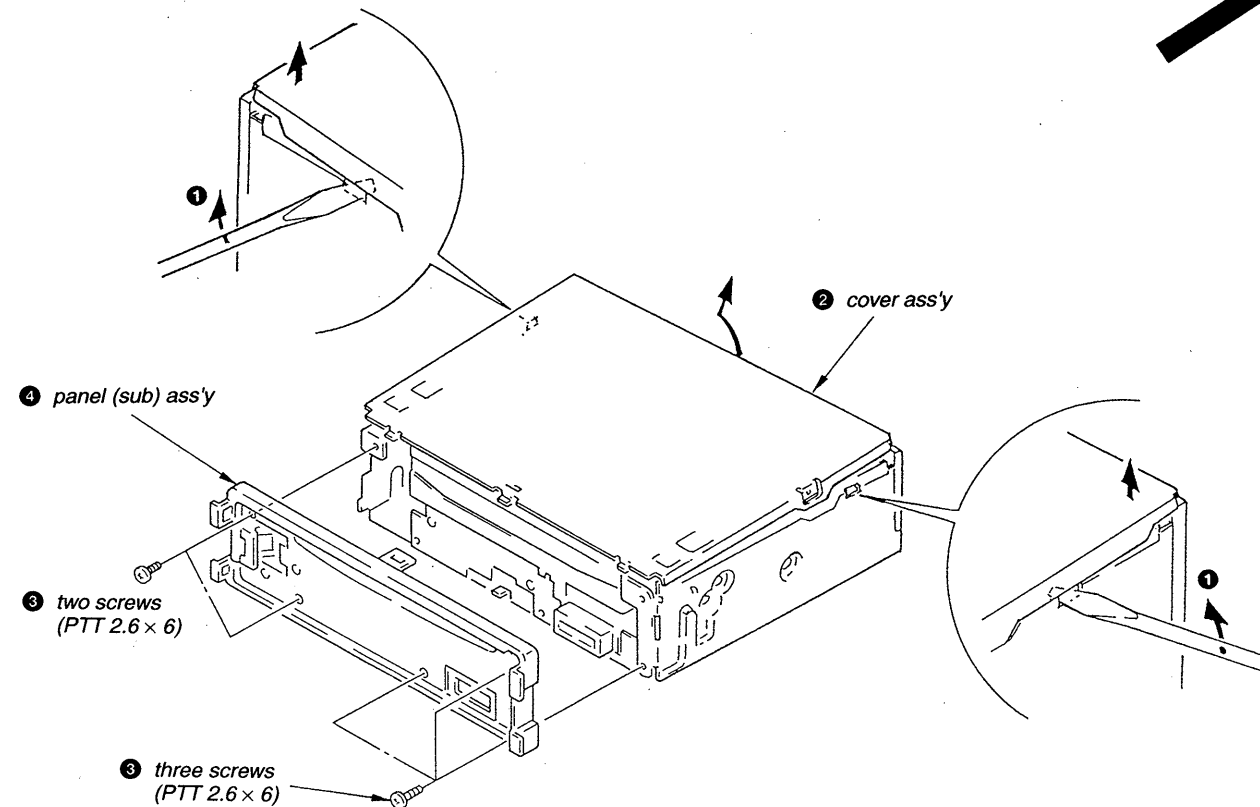
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

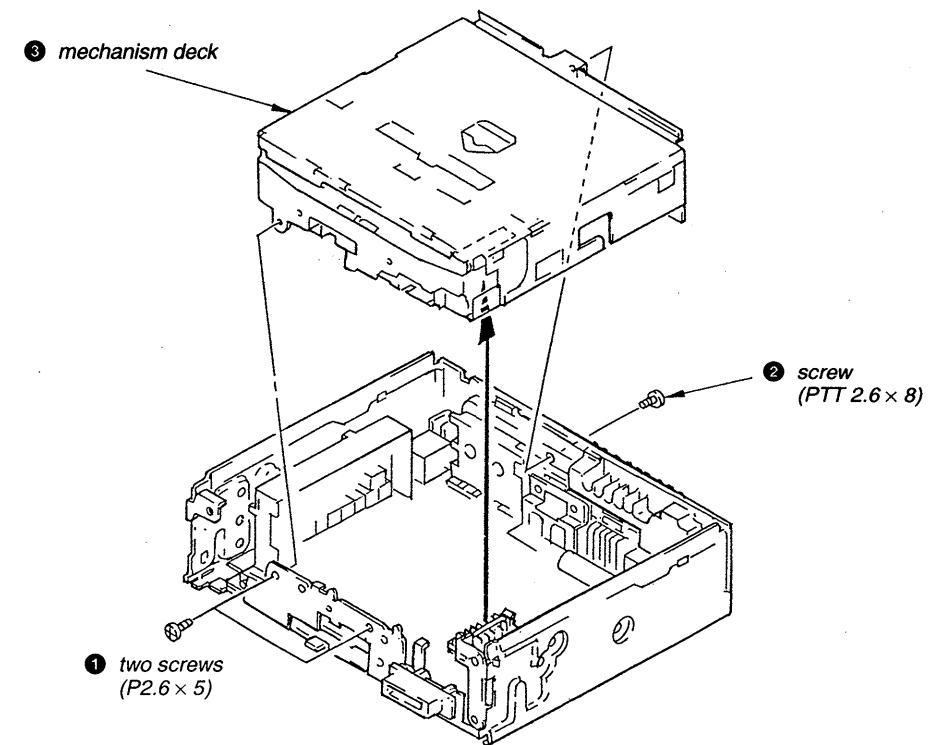
FRONT PANEL ASS'Y



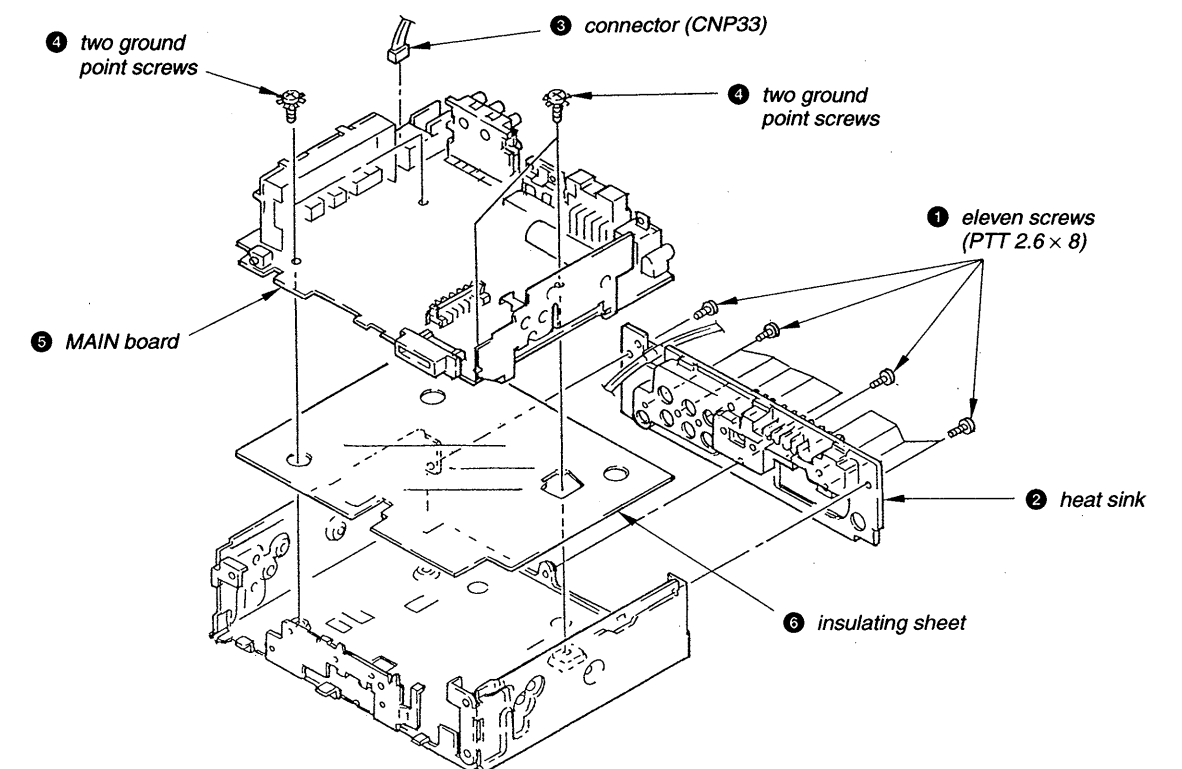
COVER ASS'Y, PANEL (SUB) ASS'Y



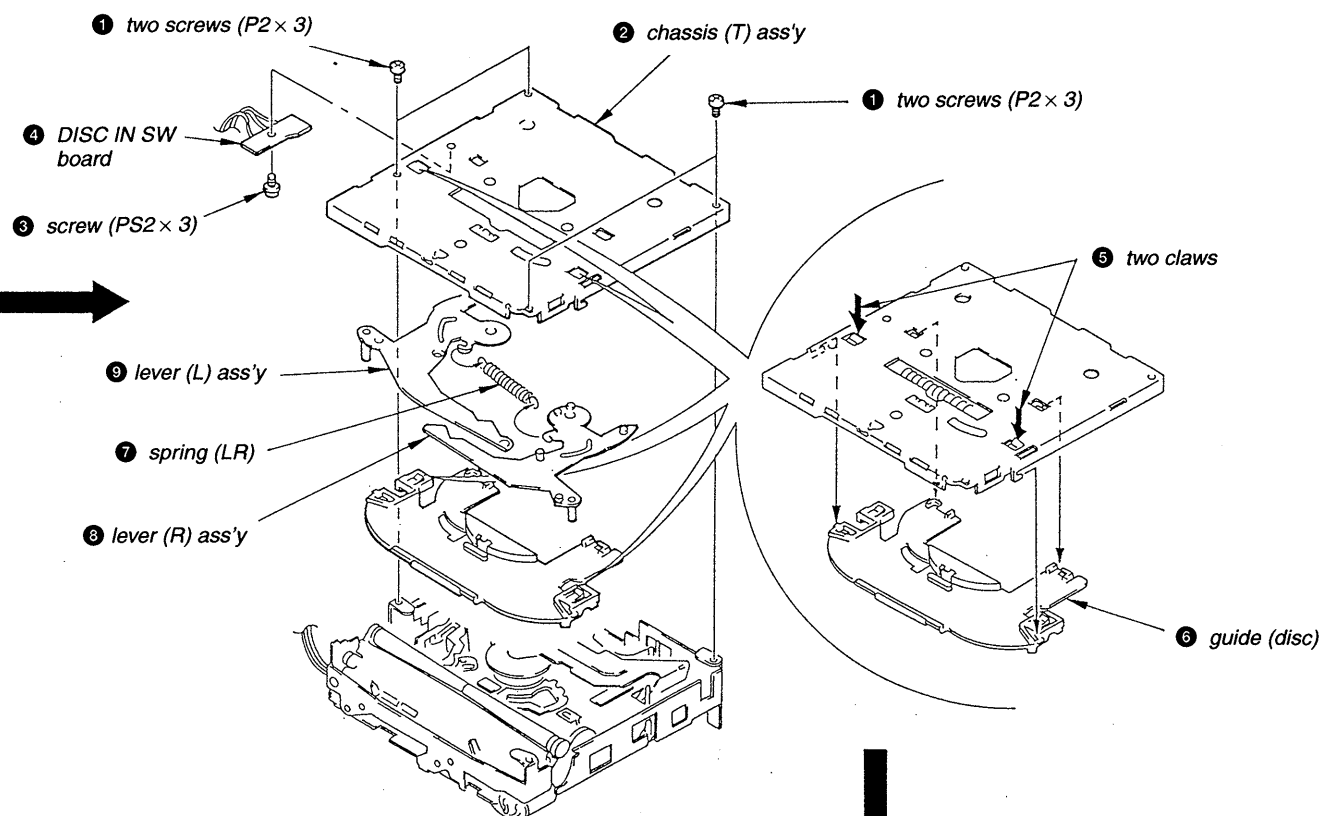
MECHANISM DECK



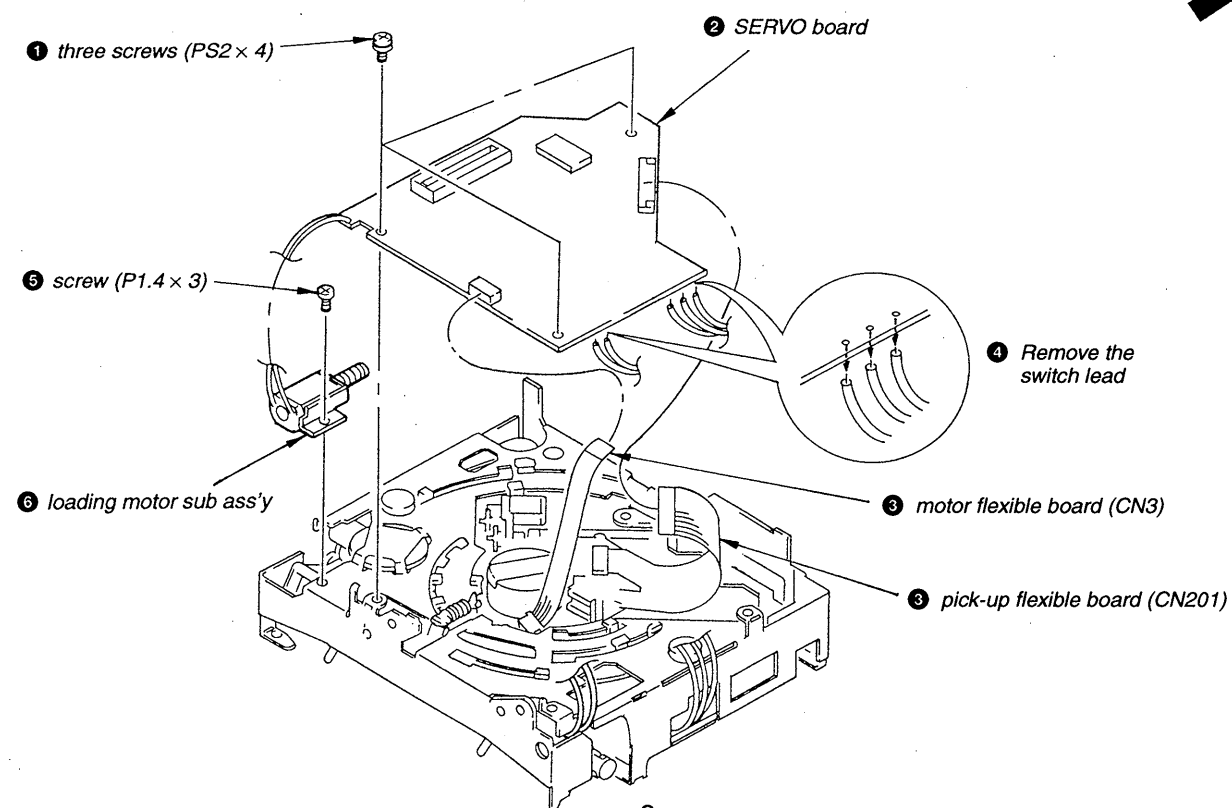
MAIN BOARD



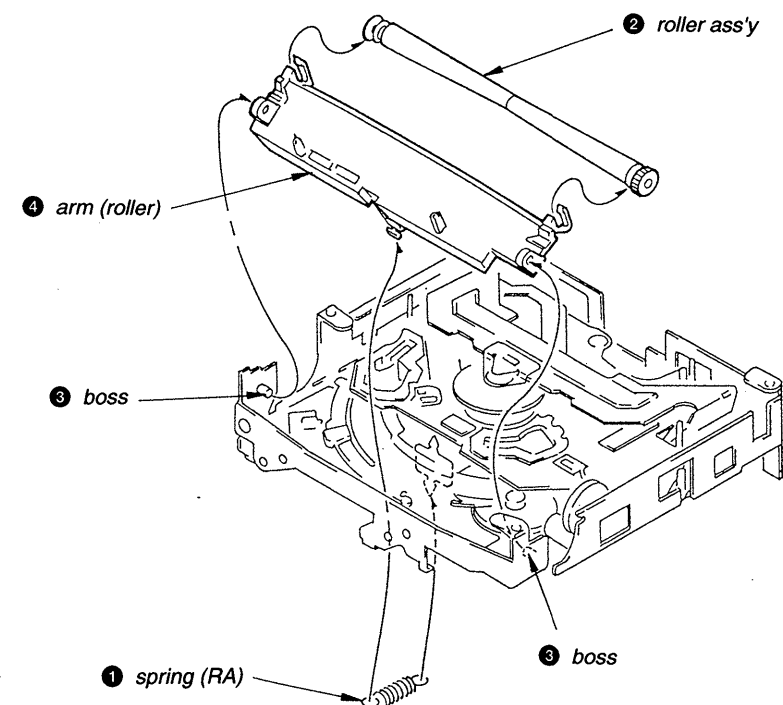
CHASSIS (T) ASS'Y



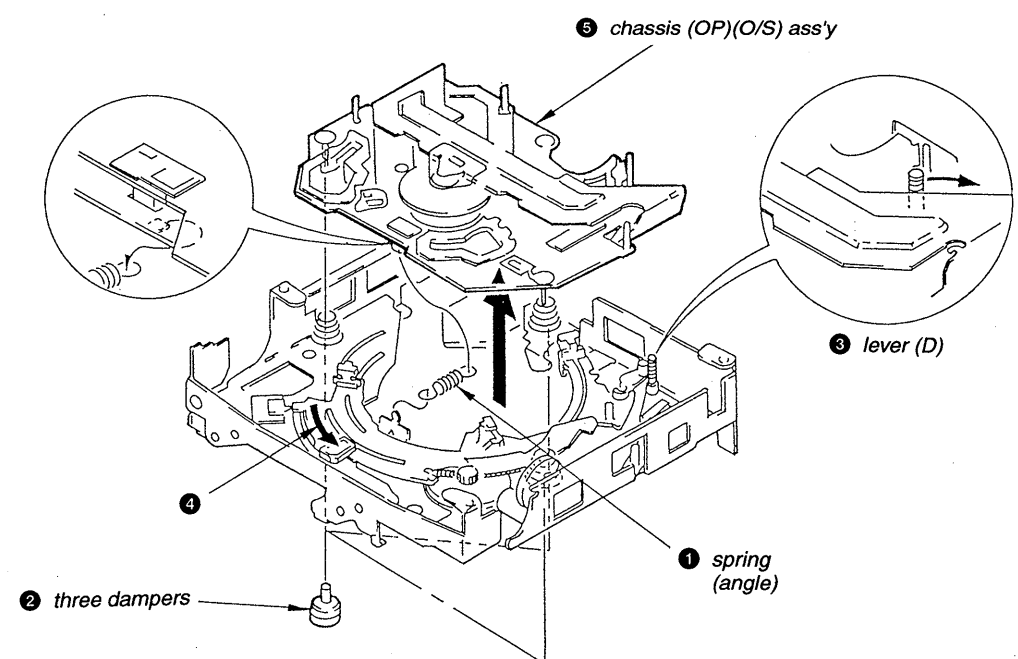
SERVO BOARD, LOADING MOTOR



ROLLER ASS'Y, ARM (ROLLER)



CHASSIS (OP)(O/S) ASS'Y



SECTION 3 TEST MODE

SEE ADDITIONAL
INFORMATION

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

Set the Test Mode

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for two seconds.
5. Then the display indicates all lights, the test mode is set.

Release the Test Mode

1. Push the [OFF] button.

SECTION 4 ELECTRICAL ADJUSTMENTS

TUNER SECTION

0dB=1μV

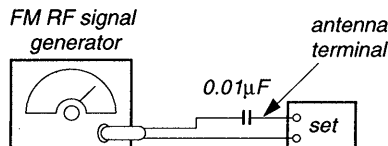
Cautions during repair

When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:

[SOURCE] button: FM

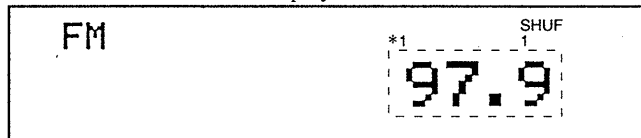


Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 22dB(12.6 μV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure:

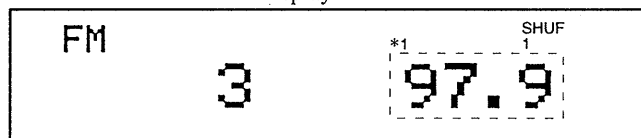
1. Set to the test mode.
2. Push the [SOURCE] button and set to FM.

Display



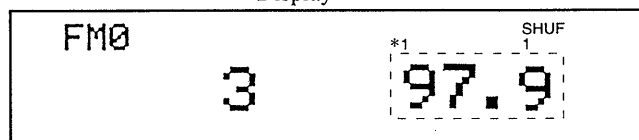
3. Push the preset [3] button.

Display



4. Adjust with the volume RV2 on FE601 so that the "FM" indication turns to "FM0" indication on the display window. But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display



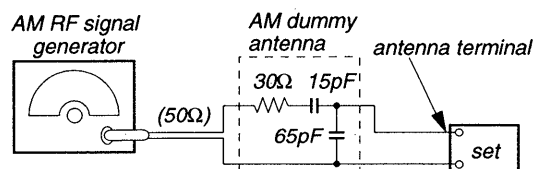
*1: AEP, UK and German models are indicates "98.0".

AM (MW) Auto Scan/Stop Level Adjustment

Setting:

[SOURCE] button (US, Canadian model): AM

[SOURCE] button (AEP, UK, German model): MW



Carrier frequency : 1000kHz (US, Canadian model)
999kHz (AEP, UK, German model)

30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7 μV)

Procedure:

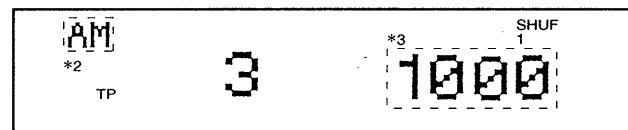
1. Set to the test mode.
2. Push the [SOURCE] button and set to AM (US, Canadian model) or MW (AEP, UK, German model).

Display



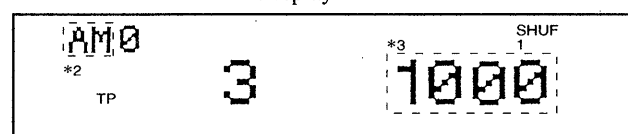
3. Push the preset [3] button.

Display



4. Adjust with the volume RV1 on FE601 so that the "AM" or "MW" indication turns to "AM0" or "MW0" indication on the display window. But, in case of already indicated "AM0" or "MW0", turn the RV1 so that put out light "0" indication and adjustment.

Display



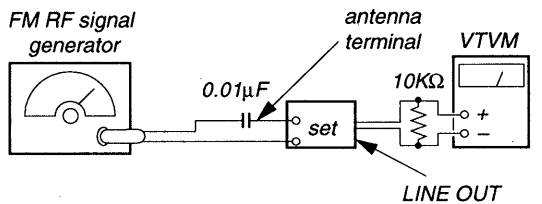
*2: AEP, UK and German models are indicates "MW".

*3: AEP, UK and German models are indicates "999".

FM Noise Focus Adjustment

Setting:

[SOURCE] button: FM



Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 60dB(1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

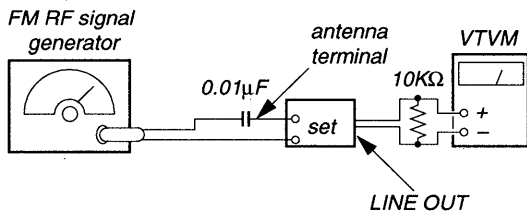
Procedure:

1. Tune the 97.9 MHz (US, Canadian model) or 98.0MHz (AEP, UK, German model).
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV3 on FE601 so that the output level is (A) -30dB then signal generator input set to -20dB.

FM Stereo Separation Adjustment

Setting:

[SOURCE] button: FM



Carrier frequency : 97.9MHz (US, Canadian model)
98.0MHz (AEP, UK, German model)
Output level : 60dB(1mV)
Mode : stereo
Modulation : main: 1kHz, 75kHz deviation
(US, Canadian model)
1kHz, 40kHz deviation
(AEP, UK, German model)
19kHz pilot: 7.5kHz deviation

Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV4 on FE601 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV4 on FE601 for minimum reading.

L-CH Stereo separation: (A)-(B)

R-CH Stereo separation: (C)-(D)

The separation of both channels should be equal.

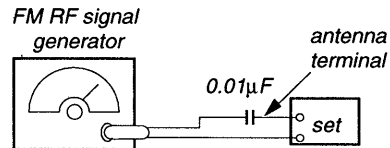
Specification: Separation more than 28dB

FM Signal Meter Adjustment

(AEP, UK, German Model)

Setting:

[SOURCE] button: FM

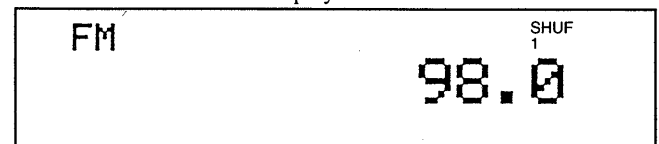


Carrier frequency : 98.0MHz
Output level : 35dB (56.2 µV)
Mode : mono
Modulation : no modulation

Procedure:

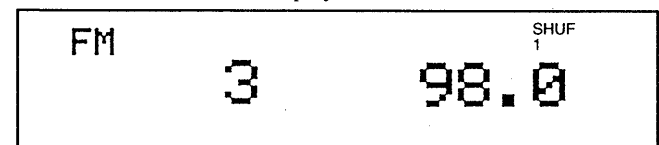
1. Set to the test mode. (See page 11.)
2. Push the [SOURCE] button and set to FM.

Display



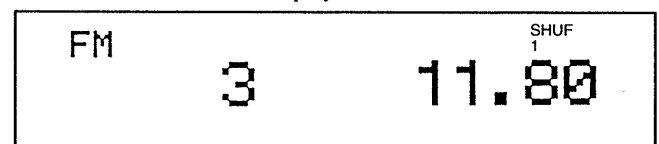
3. Push the preset [3] button.

Display



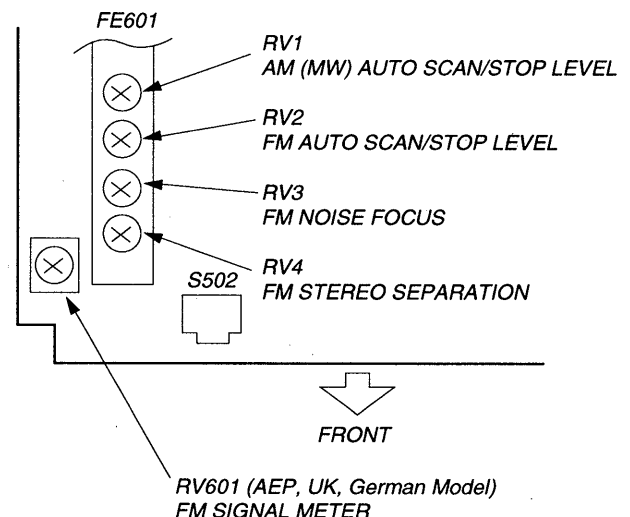
4. Push the preset [10] button.
5. Adjust RV601 so that the display indication is "11.8".

Display



Specification: display indication: 11.6 to 12.0

Adjustment Location:



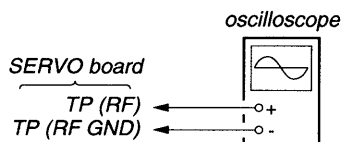
CD SECTION

Note:

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.
4. Clean an objective lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

Setting: This adjustment is performed with the set placed horizontally.

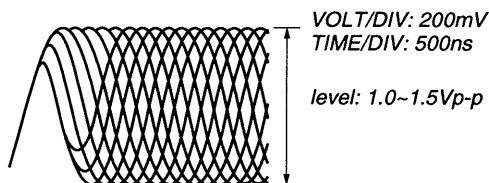


Procedure:

1. Connect an oscilloscope between TP (RF) and TP (RF GND) on the SERVO board.
2. Connect the power supply.
3. Push the **[RESET]** button (S502) on the main board.
4. Insert the disc (YEDS-18) and playback.
5. Adjust RV1 so that the oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the sharp “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform



- When observing the eye pattern, set the oscilloscope to AC range and raise the vertical sensitivity so that it may be easily seen.

Focus Gain Adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical pick-up
- RV4

Adjustment:

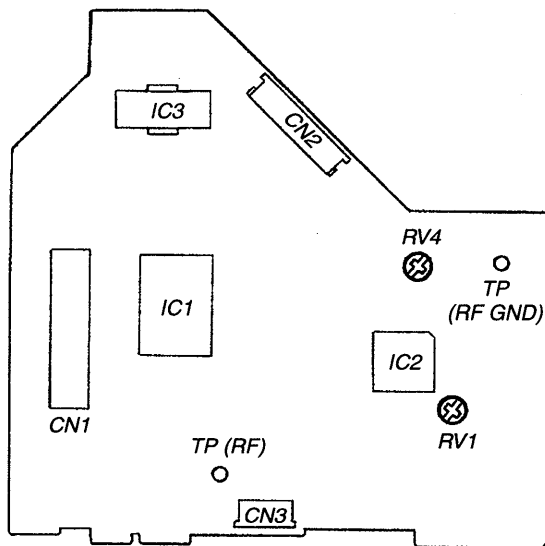
1. Set RV4 to the standard position. (mechanical center)
2. Check whether operation noise (while noise type) caused by the double-axis device (lens section of the optical pick-up) is abnormally loud.

If the operation noise is too loud, turn RV4 slightly counter-clockwise.

- If the gain is too low:
Focus does not function and no music is selected.
- If the gain is too high:
Noise caused by scratches and dust is heard and the operation becomes unstable.

Adjustment Location:

– SERVO BOARD –



SECTION 5

DIAGRAMS

5-1. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC301 CXD2710R (DIGITAL SIGNAL PROCESSOR)

Pin No.	Pin Name	I/O	Function
1	AMPIN	I	Loop filter amplifier input for PLL
2	AMPOUT	O	Loop filter amplifier output for PLL
3	VDD	—	Power supply terminal (+5V)
4	VSS	—	Ground terminal
5	AVSS1	—	Ground terminal (for PLL)
6	VCOC	I	VCO control signal input
7	AVDD1	—	Power supply terminal (+5V) (for PLL VCO)
8	—	—	Not used
9	MCK1	I	Master clock input (768Fs) Not used (fixed at “H”)
10	MCK2	I	Master clock input (384Fs) Not used (fixed at “H”)
11	MCKOUT	O	Master clock output Not used (open)
12	MCKSEL	I	MCK1 (pin ⑨)/internal VCO select terminal MCK1: “H”, Internal VCO: “L” (fixed at “L”)
13	$\overline{\text{XMUTE}}$	I	Mute signal input of the serial interface from digital signal processor control (IC505)
14	DIN	I	Program data serial input from digital signal processor control (IC505)
15	VSS	—	Ground terminal
16	SCK	I	Program data serial clock input from digital signal processor control (IC505)
17	XLD	I	Program data load input from digital signal processor control (IC505)
18	DOUT	O	Internal serial data output to digital signal processor control (IC505)
19	BUSY	O	Data transfer busy signal output to digital signal processor control (IC505)
20	$\overline{\text{XCLR}}$	I	Reset signal input from digital signal processor control (IC505)
21 – 27	—	—	Not used (fixed at “L”)
28	AVDD	—	Power supply terminal (+5V)
29	VSS	—	Ground terminal
30 – 38	—	—	Not used (fixed at “L”)
39	M1	O	Parallel data output (MSB) Not used (fixed at “L”)
40	VSS	—	Ground terminal
41 – 52	M2 – M13	O	Parallel data output Not used (fixed at “L”)
53	VDD	—	Power supply terminal (+5V)
54	VSS	—	Ground terminal
55, 56	M14, M15	O	Parallel data output Not used (fixed at “L”)
57	M16	O	Parallel data output (LSB) Not used (fixed at “L”)
58 – 64	—	—	Not used (fixed at “L”)
65	VSS	—	Ground terminal
66 – 74	—	—	Not used (fixed at “L”)
75, 76	—	—	Not used (fixed at “H”)
77	D.SEL1	I	Serial/parallel select terminal (fixed at “L”)
78	VDD	—	Power supply terminal (+5V)
79	GND	—	Ground terminal
80	D.SEL2	I	Serial/parallel select terminal (fixed at “L”)
81, 82	—	—	Not used (fixed at “L”)
83	AVDD2	—	Power supply terminal (+5V) (for D-RAM)
84	AVSS2	—	Ground terminal (for D-RAM)
85	AVDD3	—	Power supply terminal (+5V) (for D-RAM)

Pin No.	Pin Name	I/O	Function
86	AVSS3	—	Ground terminal (for D-RAM)
87	SUBDOUT	O	Serial data (1 sampling, 2 channel) output for the sub-woofer speaker
88	RDOUT	O	Serial data (1 sampling, 2 channel) output for the rear side speaker
89	FDOUT	O	Serial data (1 sampling, 2 channel) output for the front side speaker
90	VSS	—	Ground terminal
91	CDDIN	I	Serial data (1 sampling, 2 channel) input for the CD
92	ADIN	I	Serial data (1 sampling, 2 channel) input for the tuner or bus audio signal
93	MDIN	I	Serial data (1 sampling, 2 channel) input for the mini-disc Not used (fixed at “L”)
94	BCK	I	Bit clock input of the serial I/O data
95	LRCK	I	Sampling clock input of the serial I/O data
96	PCPOUT	O	Error signal output of the PLL phase comparator to digital signal processor control
97	V	O	Divider output for the PLL
98	VAR	I	PLL phase comparator variable input
99	REF	I	PLL phase comparator reference input
100	PD	I	PLL phase comparator charge pump input

● MAIN BOARD IC501 μ PD78058GC-174-3B9 (MASTER CONTROLLER)

Pin No.	Pin Name	I/O	Function
1, 2	NIL	—	Not used (fixed at “L”)
3	H $\overline{I}$ 2/24	I	12-hour/24-hour selection of the display indication 12-hour: “L”, 24-hour: “H” (US, Canadian model: fixed at “L”, AEP, UK, German model: fixed at “H”)
4	AVSS	—	Ground terminal
5	TIMPOL	I	Not used (fixed at “L”)
6	NIL	—	Not used (fixed at “L”)
7	AVREF	I	Reference voltage input terminal (+5V)
8	SQ SI	I	Sub-code Q data signal input from CXD2507AQ (IC1)
9	NIL	—	Not used (fixed at “L”)
10	SQ CKO	O	Sub-code Q data reading clock signal output to CXD2507AQ (IC1)
11 – 15	NIL	—	Not used (fixed at “L”)
16	UNI-SI	I	Serial data input from bus interface (IC503)
17	UNI-SO	O	Serial data output to bus interface (IC503)
18	UNI-CKI	I	Serial clock signal input from the pin ⑩ (UNI-CKO) (for SONY BUS)
19	UNI-CKO	O	Serial clock signal output to bus interface (IC503) (for SONY BUS)
20	BUSON	O	Bus on control signal output to bus interface (IC503), digital signal processor control (IC505), and tuner controller (IC601) (for SONY BUS)
21 – 23	NCO	—	Not used (fixed at “L”)
24	CDMON	O	Mechanism deck section power supply on/off control signal output terminal power on: “H”
25	CD ON	O	CD servo circuit and digital signal processor circuit power supply on/off control signal output terminal power on: “H”
26	ANTREM	O	Not used (open)
27	PW ON	O	System power supply on/off control signal output terminal power on: “H”
28 – 30	NIL	—	Not used (fixed at “L”)
31	SYSRST	O	System reset signal output terminal reset: “L”
32	TSTIN0	I	Test mode setting terminal Normally fixed at “H”
33	VSS	—	Ground terminal
34	CAUTION	I	Initial setting for caution alarm function Normally fixed at “L”
35	TV SEL	I	Valid/invalid selection of the TV
36	FBTOSEL	I	CD tracking balance and tracking gain automatic adjustment select pin
37	TEST	I/O	Test mode direct setting terminal Normally fixed at “H”
38	PW SEL	I	Power select switch (SW503) input terminal “H”: on, “L”: off
39	NOSES $\overline{W}$	I	Detects the removal of the attaching and removing type front panel block Removing: “L”
40	A MUTE	O	Audio muting signal output terminal “H”: mute on
41	NIL	—	Not used (fixed at “L”)
42	AD ON	O	VREF control output terminal of A/D conversion “L”: on
43	LD ON	O	Laser diode on/off selection signal output terminal “L”: on
44	EMPH O	O	Emphasis control signal output to D/A converter (IC311, 312)
45	L SW	I	Sled limit in switch (SW3) detection input terminal The optical pick-up is inner position when “L”
46	BEEP	O	Beep sound output terminal
47	CD LAT	O	Data latch pulse signal output to CXD2507AQ (IC1)
48	CD SO	O	Data signal output to CXD2507AQ (IC1)
49	CD CKO	O	Data clock signal output to CXD2507AQ (IC1)
50	CD RST	O	Reset signal output to CXD2507AQ (IC1) and CXA1782BQ (IC2) “L”: reset

Pin No.	Pin Name	I/O	Function
51	F OK	I	Focus OK monitor signal input from CXD2507AQ (IC1) and CXA1782BQ (IC2) “H”: OK, “L”: NG
52	ACC IN	I	Accessory voltage detection input terminal
53	GFS	I	Guard frame sync lock state input from CXD2507AQ (IC1) The playback EFM frame sync and interpolation protection timing match when “H”
54	IN SW	I	Disc in detect switch (SW1) detection input terminal The disc is loaded when “L”
55	CTL1	O	Control signal output to BA6796FP (IC3)
56	CTL2	O	Control signal output to BA6796FP (IC3)
57	D SW	I	Down switch (SW3) detection input terminal Detects the completion of the disc chucking operation
58	LM EJ	O	Loading motor (M903) control output to BA6796FP (IC3) *1
59	LM LOD	O	Loading motor (M903) control output to BA6796FP (IC3) *1
60	RESET	I	System reset signal input from IC504 and S502 (reset switch) “L”: reset
61	SIRCS	I	Remote control signal input from remote control receiver (IC802)
62	BU IN	I	BATT voltage level detect signal input from bus interface (IC503) (for SONY BUS)
63	KEYACK	I	Key input acknowledge (connected to voltage reference line)
64	SELF SW	I	Self switch (SW2) detection input terminal The disc in/out operation when “L”
65	SCOR	I	Sub-code sync (S0+S1) detection signal input from CXD2507AQ (IC1)
66	CNIN	I	Numbers of track counted signal input from CXA1782BQ (IC2)
67	SENS	I	Internal status (SENSE) signal input from CXD2507AQ (IC1)
68	VDD	—	Power supply terminal (+5V)
69	X2	I	Main system clock input terminal (5MHz)
70	X1	O	Main system clock output terminal (5MHz)
71	GND	—	Ground terminal
72	XT2	I	Sub system clock input terminal (32kHz)
73	XT1	O	Sub system clock output terminal (32kHz)
74	AVDD	—	Power supply terminal (+5V)
75	AVREF	I	Reference voltage input terminal (+5V)
76	KEYIN0	I	Key input terminal (A/D input)
77	KEYIN1	I	Key input terminal (A/D input)
78	RC IN0	I	Rotary remote commander shift key input terminal
79	RC IN1	I	Rotary remote commander shift key input terminal
80	NIL	—	Not used (fixed at “L”)

*1 Loading motor control

	STOP	LOADING	EJECT	BRAKE
LM EJ (pin 58)	“L”	“L”	“H”	“H”
LM LOD (pin 59)	“L”	“H”	“L”	“H”

• MAIN BOARD IC505 μ PD78058GC-198-3B9 (DIGITAL SIGNAL PROCESSOR CONTROL)

Pin No.	Pin Name	I/O	Function									
1 – 3	NIL	–	Not used (fixed at “L”)									
4	GND	–	Ground terminal (for A/D, D/A converter)									
5	DSPMUTE	O	Mute signal output of the serial interface to digital signal processor (IC301)									
6	DIMMER	O	Brightness control signal output of the LCD display									
7	AVREF	I	Reference voltage input terminal (+5V)									
8	LCDCE	O	Chip enable output to LCD driver (IC801)									
9	LCDSO	O	Serial data output to LCD driver (IC801)									
10	LCDCLO	O	Serial clock output to LCD driver (IC801)									
11	DSPSI	I	Serial data input from digital signal processor (IC301)									
12	DSPSO	O	Program data serial output to digital signal processor (IC301)									
13	DSPCKO	O	Program data serial clock output to digital signal processor (IC301)									
14	DSPCE	O	Program data load output to digital signal processor (IC301)									
15	DSPBUSY	I	Data transfer busy signal input from digital signal processor (IC301)									
16	UNISI	I	Serial data input from bus interface (IC503) (for SONY BUS)									
17	UNISO	O	Serial data output to bus interface (IC503) (for SONY BUS)									
18	UNICKI	I	Serial clock signal input from master controller (IC501) (for SONY BUS)									
19	NCO	–	Not used (open)									
20	LINK OFF	O	Link on/off control signal output terminal Not used (open)									
21, 22	NCO	–	Not used (open)									
23	CLKSEL	O	CD clock/tuner and the bus audio clock select signal output to IC302 CD: “H”, Tuner/bus audio: “L”									
24	A SEL0	O	} Tuner/bus audio select signal output to IC304 <table><tr><td></td><td>Pin ②4</td><td>Pin ②5</td></tr><tr><td>Tuner</td><td>“L”</td><td>“L”</td></tr><tr><td>Bus audio</td><td>“H”</td><td>“L”</td></tr></table>		Pin ②4	Pin ②5	Tuner	“L”	“L”	Bus audio	“H”	“L”
	Pin ②4	Pin ②5										
Tuner	“L”	“L”										
Bus audio	“H”	“L”										
25	A SEL1	O										
26	VOLCKOR	O	Serial clock signal output to rear side electrical volume (IC317)									
27	VOLCER	O	Chip enable signal output to rear side electrical volume (IC317)									
28	VOLCEF	O	Chip enable signal output to front side electrical volume (IC316)									
29	VOLSO	O	Serial data output to front/rear side electrical volume (IC316, 317)									
30	VOLCKOF	O	Serial clock signal output to front side electrical volume (IC316)									
31	ILLON	O	Illumination power supply control signal output terminal									
32	NIL	–	Not used (fixed at “L”)									
33	GND	–	Ground terminal									
34 – 39	NIL	–	Not used (fixed at “L”)									
40	A MUTE	O	Audio muting signal output terminal “H”: mute on									
41	AMP MUTE	O	Muting signal output to power amplifier (IC309) “L”: mute on									
42, 43	NIL	–	Not used (fixed at “L”)									
44	EECKO	O	Serial clock signal output to EEPROM (IC506)									
45	EESIO	I/O	EEPROM (IC506) data bus									
46 – 55	NIL	–	Not used (fixed at “L”)									
56	COLOR	O	Illumination color select signal output terminal Amber: “L”, Green: “H”									
57	AMPON	O	Audio circuit power supply on/off control signal output terminal power on: “H”									
58	DSPON	O	Digital signal processor circuit power supply on/off control signal output terminal power on: “H”									
59	PWONIN	I	Power on control signal input from master controller (IC501) power on: “H”									
60	RESET	I	System reset signal input from master controller (IC501) reset: “L”									

Pin No.	Pin Name	I/O	Function
61	PCPIN	I	Error signal input of the PLL phase comparator from digital signal processor (IC301)
62	BU.IN	I	BATT voltage level detect signal input from bus interface (IC503) (for SONY BUS)
63	NIL	—	Not used (fixed at “L”)
64	BUSON	I	Bus on control signal input from master controller (IC501)
65	DACPDO	O	Calibration control signal output to A/D converter (IC303)
66	DSPRES	O	Reset signal output to digital signal processor (IC301) and D/A converter (IC311, 312)
67	NIL	—	Not used (fixed at “L”)
68	VDD	—	Power supply terminal (+5V)
69	X2	O	System clock output terminal (5MHz)
70	X1	I	System clock input terminal (5MHz)
71	GND	—	Ground terminal
72	NIL	—	Not used (fixed at “L”)
73	GND	—	Ground terminal
74	AVDD	—	Power supply terminal (+5V)
75	AVREF	I	Reference voltage input terminal (+5V)
76 – 80	NIL	—	Not used (fixed at “L”)

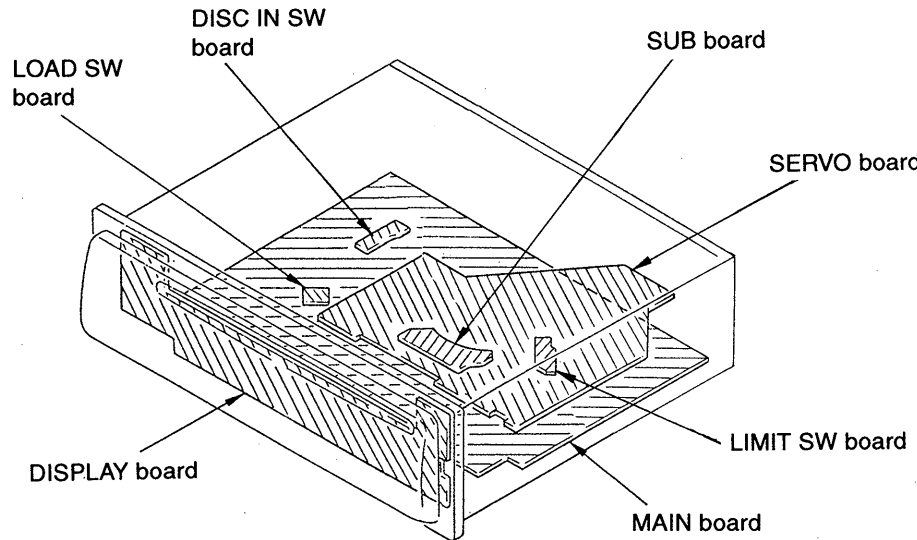
● **MAIN BOARD IC601 MN1883220S4B1 (US, Canadian MODEL) (TUNER CONTROLLER)**
IC601 MN1883220S4C (AEP, UK, German MODEL) (TUNER CONTROLLER)

Pin No.	Pin Name	I/O	Function
1 – 6	A5 – A0	O	Address signal output to the external RAM device Not used (open)
7	VDD	–	Power supply terminal (+5V)
8	X1	O	Main system clock output terminal (8MHz)
9	X2	I	Main system clock input terminal (8MHz)
10	GND	–	Ground terminal
11	XTI	I	Sub system clock input terminal Not used (fixed at “L”)
12	XTO	O	Sub system clock output terminal Not used (open)
13	XO	I	External clock signal input terminal Not used (fixed at “L”)
14	RESET	I	System reset signal input from master controller (IC501) reset: “L”
15	RDCKI	I	Serial clock signal input from radio data system demodulator (IC605) (AEP, UK, German model only)
16	BU IN	I	BATT voltage level detect signal input from bus interface (IC503) (for SONY BUS)
17	BUSON	I	Bus on control signal input from master controller (IC501) (for SONY BUS)
18 – 25	D7 – D0	I/O	External RAM device data bus Not used (open)
26	RE	O	Read enable signal output to external RAM device Not used (open)
27	WE	O	Write enable signal output to external RAM device Not used (open)
28, 29	–	–	Not used (open)
30	RDSSI	I	Serial data input from radio data system demodulator (IC605) (AEP, UK, German model only)
31	FM-AMS-IN	I	Not used (fixed at “H”)
32	AM STIN	I	Not used (fixed at “L”)
33 – 35	–	–	Not used (open)
36, 37	–	–	Not used (fixed at “L”)
38	PLLSI	I	PLL serial data input from FM/AM (MW/LW) PLL (IC602)
39	PLL SO	O	PLL serial data output to FM/AM (MW/LW) PLL (IC602)
40	PLLCKO	O	PLL serial clock signal output to FM/AM (MW/LW) PLL (IC602)
41	PLLCE	O	PLL serial chip enable signal output to FM/AM (MW/LW) PLL (IC602)
42	UNIREQ	O	Bus request signal output to bus interface (IC503) (for SONY BUS)
43	LIKOFF	O	Link off signal output to bus interface (IC503) (for SONY BUS)
44	UNICKO	O	Serial clock signal output to bus interface (IC503) (for SONY BUS)
45	UNISI	I	Serial data input from bus interface (IC503) (for SONY BUS)
46	UNISO	O	Serial data output to bus interface (IC503) (for SONY BUS)
47	VDD	–	Power supply terminal (+5V)
48	AVDD	–	Power supply terminal (+5V)
49	VREF	I	Reference voltage input terminal (+5V)
50, 51	–	–	Not used (open)
52	SRAMRST	I	Reset signal input of the internal static RAM (US, Canadian model only) (AEP, UK, German model: fixed at “L”)
53	MUTSEL	I	Muting selection signal input terminal (fixed at “L”)
54	DSTSEL0	I	Destination setting terminal (fixed at “L”: except German model, fixed at “H”: German model)
55	DSTSEL1	I	Destination setting terminal (fixed at “L”: AEP, UK, German model, fixed at “H”: US, Canadian model)
56	AM VSM	I	AM (MW/LW) signal meter voltage detection input terminal
57	FM VSM	I	FM signal meter voltage detection input terminal
58	VREF	I	Reference ground terminal

Pin No.	Pin Name	I/O	Function
59	—	—	Not used (fixed at “L”)
60	VSS	—	Ground terminal
61	TU ON	O	Tuner power supply on/off control output to regulator (IC502) “H”: tuner on
62	$\overline{\text{DX}}$ /LO	O	Local/DX selection signal output to tuner unit (FE601) “H”: local mode, “L”: DX mode
63	SEEK	O	Seek signal output to tuner unit (FE601) Output level “L” when change the frequency
64	AM ON	O	AM (MW/LW) on/off control signal output terminal Not used (open)
65	FM ON	O	FM power supply on/off control output to regulator (IC502) “H”: FM on
66	TUNMUT	O	Tuner muting signal output terminal “H”: muting on
67	AF SEEK	O	AF seek control signal output terminal
68	SRAM	O	Chip select signal output to the external RAM device Not used (open)
69	A15	O	Address signal output to the external RAM device Not used (open)
70	ST-IN-MONO	I	Stereo detection signal input from tuner unit (FE601)
71	SD IN	I	Station detection signal input from tuner unit (FE601)
72, 73	A14, A13	O	Address signal output to the external RAM device Not used (open)
74	CE	O	Chip enable signal output to the external RAM device Not used (open)
75 – 80	A11 – A6	O	Address signal output to the external RAM device Not used (open)

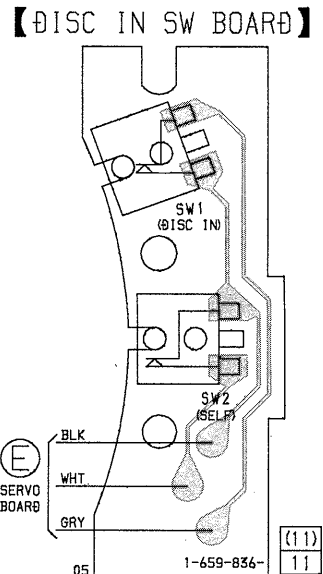
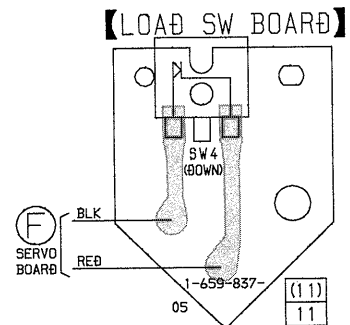
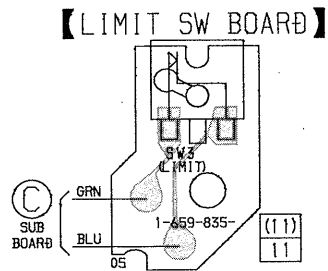
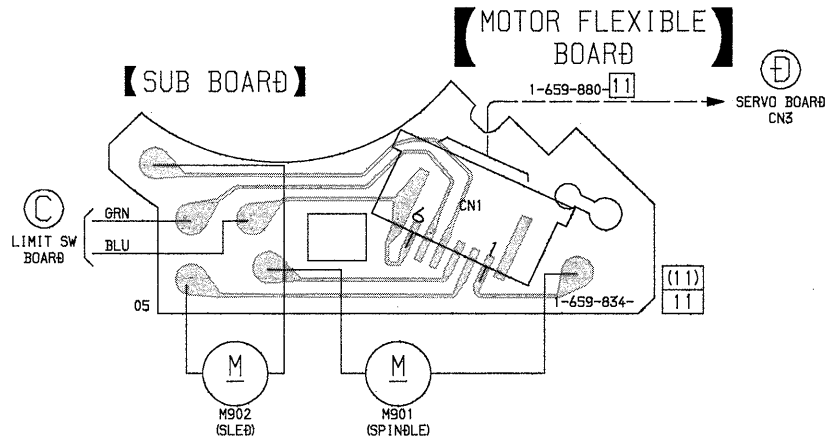
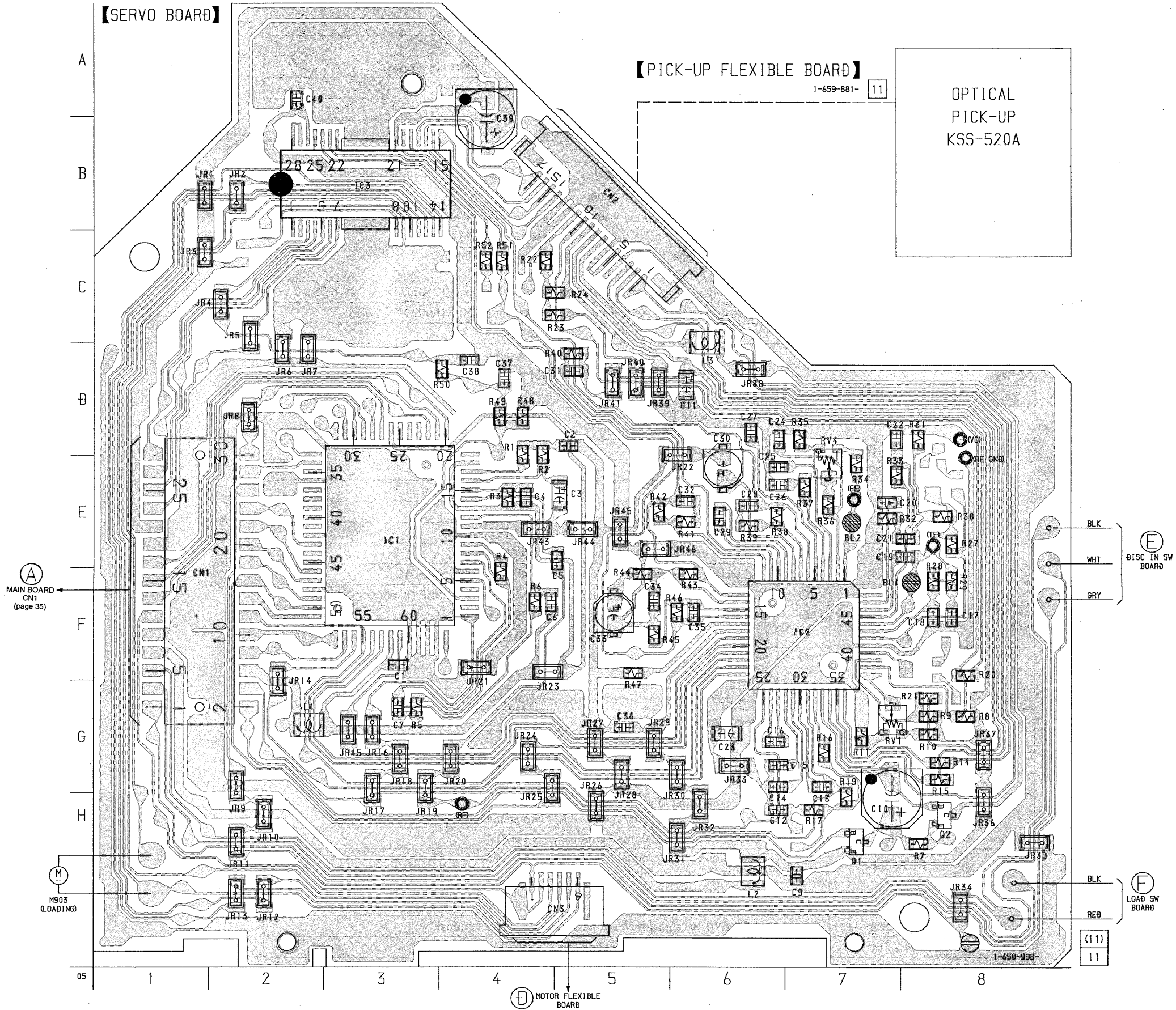
5-2. PRINTED WIRING BOARDS – MECHANISM DECK Section –

• Circuit Boards Location



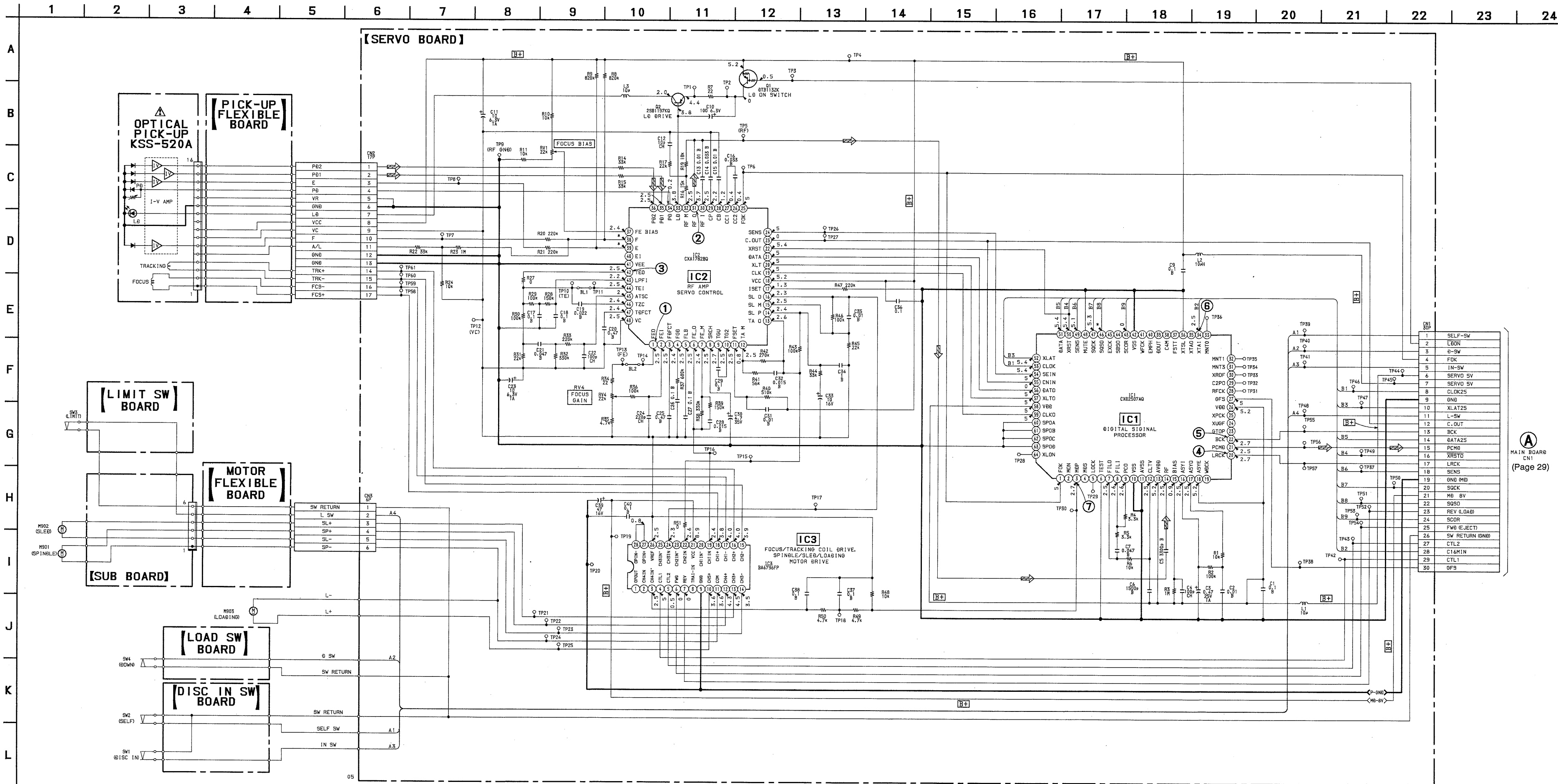
• Semiconductor Location

Ref. No.	Location
IC1	E-3
IC2	F-7
IC3	B-3
Q1	H-7
Q2	H-8



Note on Printed Wiring Board:
• : parts extracted from the conductor side.
• : Pattern from the side which enables seeing.

5-3. SCHEMATIC DIAGRAM - MECHANISM DECK Section - • See page 41 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μpF 50 WV 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.

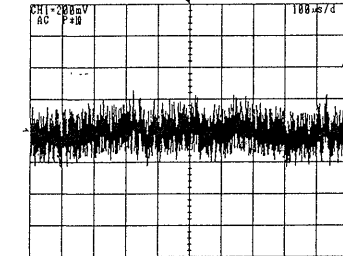
Note:
The components identified by mark Δ , or otter line with mark Δ , are critical for safety. Replace only with part number specified.

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

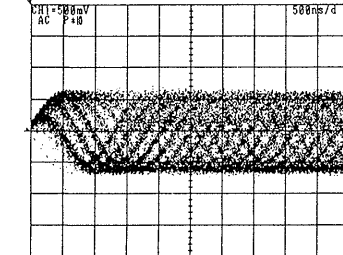
- Δ : B+ Line.
- Δ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- * : Impossible to measure
- Voltages are taken with a VOM (10 $\text{M}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- Δ : CD

• Waveforms

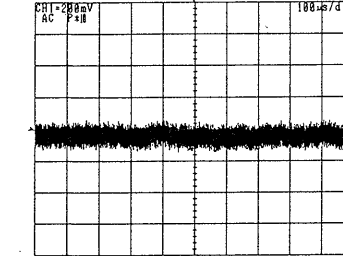
① IC2 (FEO)
Approx. 490 mVp-p



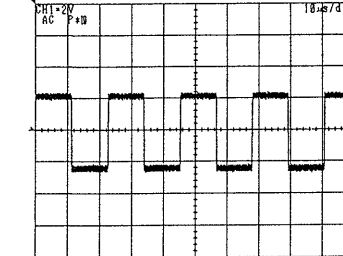
② IC2 (RFO)
Approx. 1-1.5 Vp-p



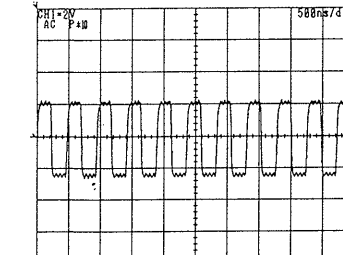
③ IC2 (TEO)
Approx. 200 mVp-p



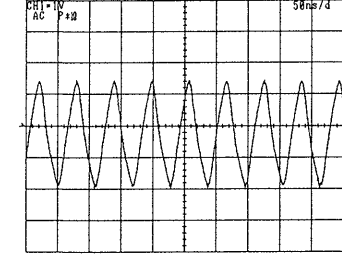
④ IC1 (LACK)
5.4 Vp-p, 22.6 μsec



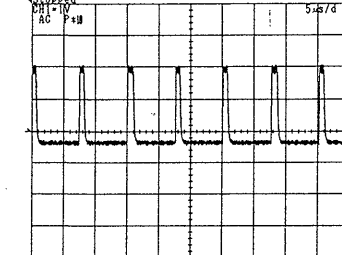
⑤ IC1 (BCK)
5.4 Vp-p, 352 nsec



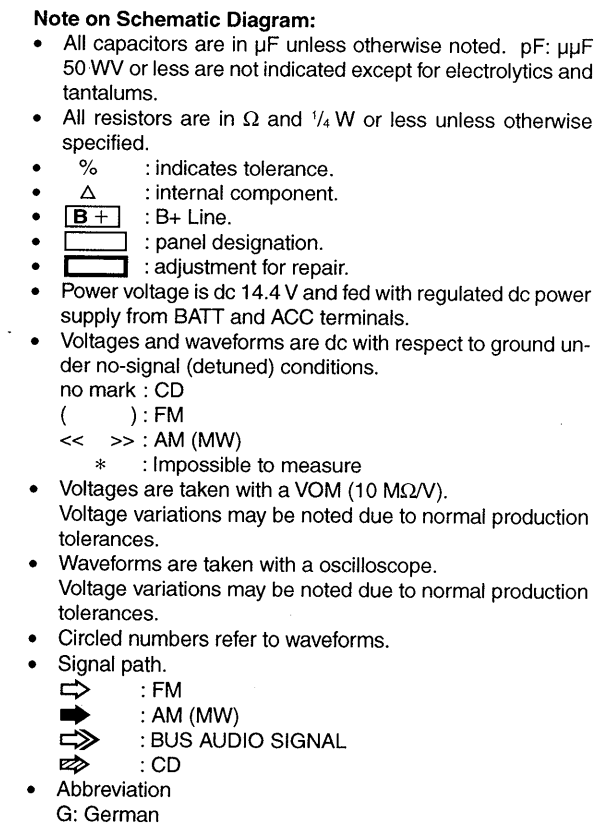
⑥ IC1 (XTAI)
3.4 Vp-p, 16.95 MHz

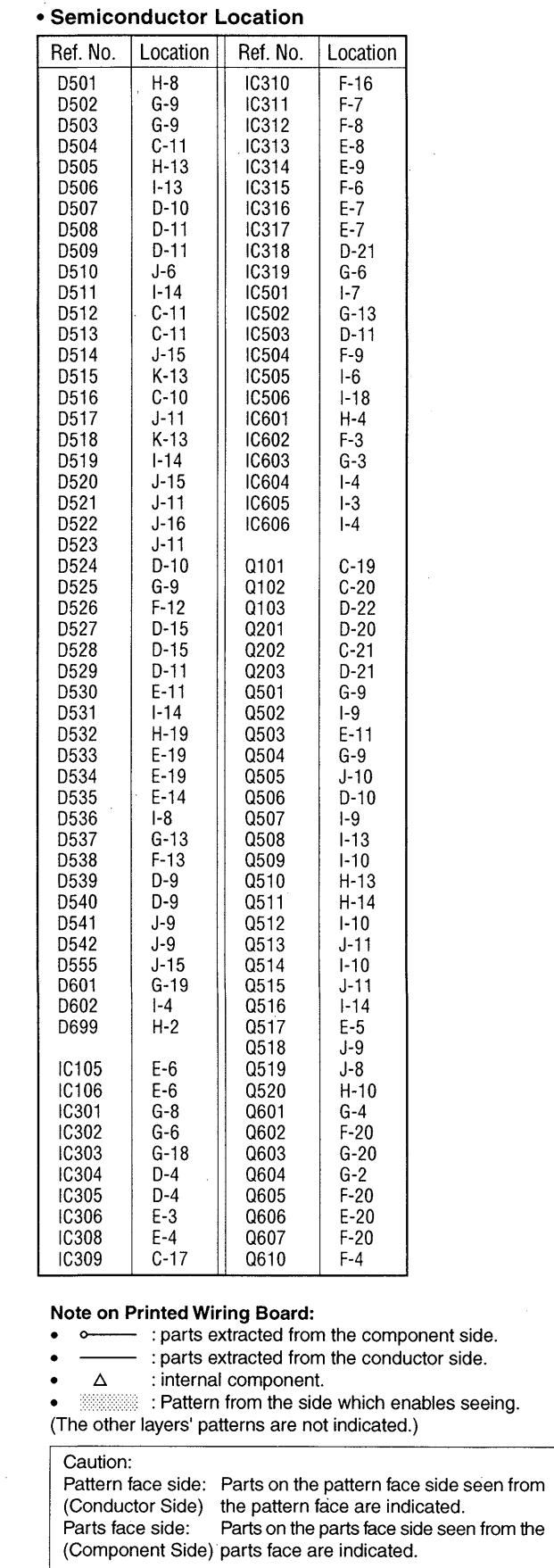


⑦ IC1 (MDP)
2.5 Vp-p, 7.6 μsec



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

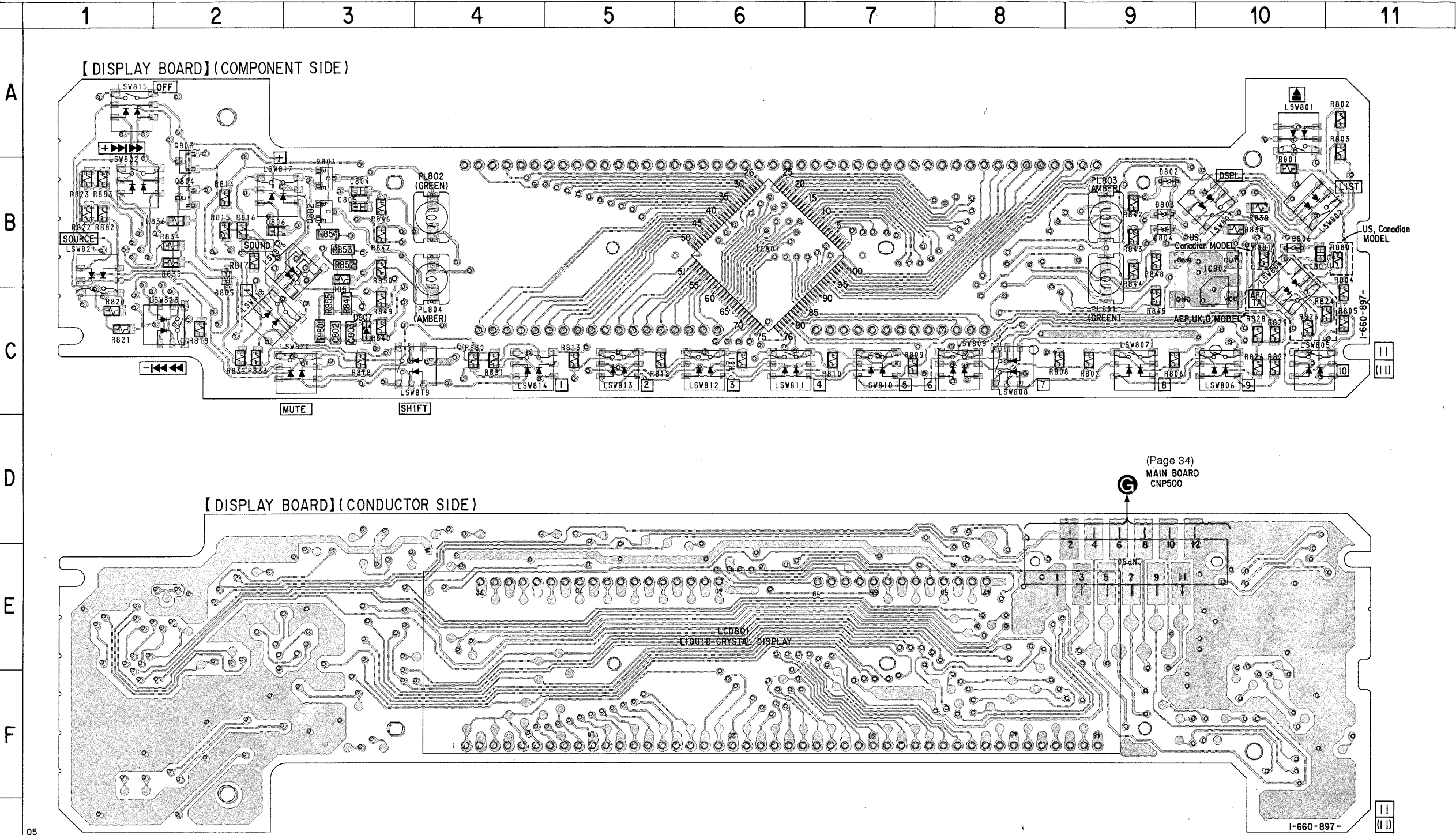




5-6. PRINTED WIRING BOARD – DISPLAY Section – • See page 22 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D802	B-9
D803	B-9
D804	B-9
D805	B-2
D806	B-10
D807	C-3
IC801	B-6
IC802	B-10
Q801	B-3
Q802	B-3
Q803	A-2
Q804	B-2



Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

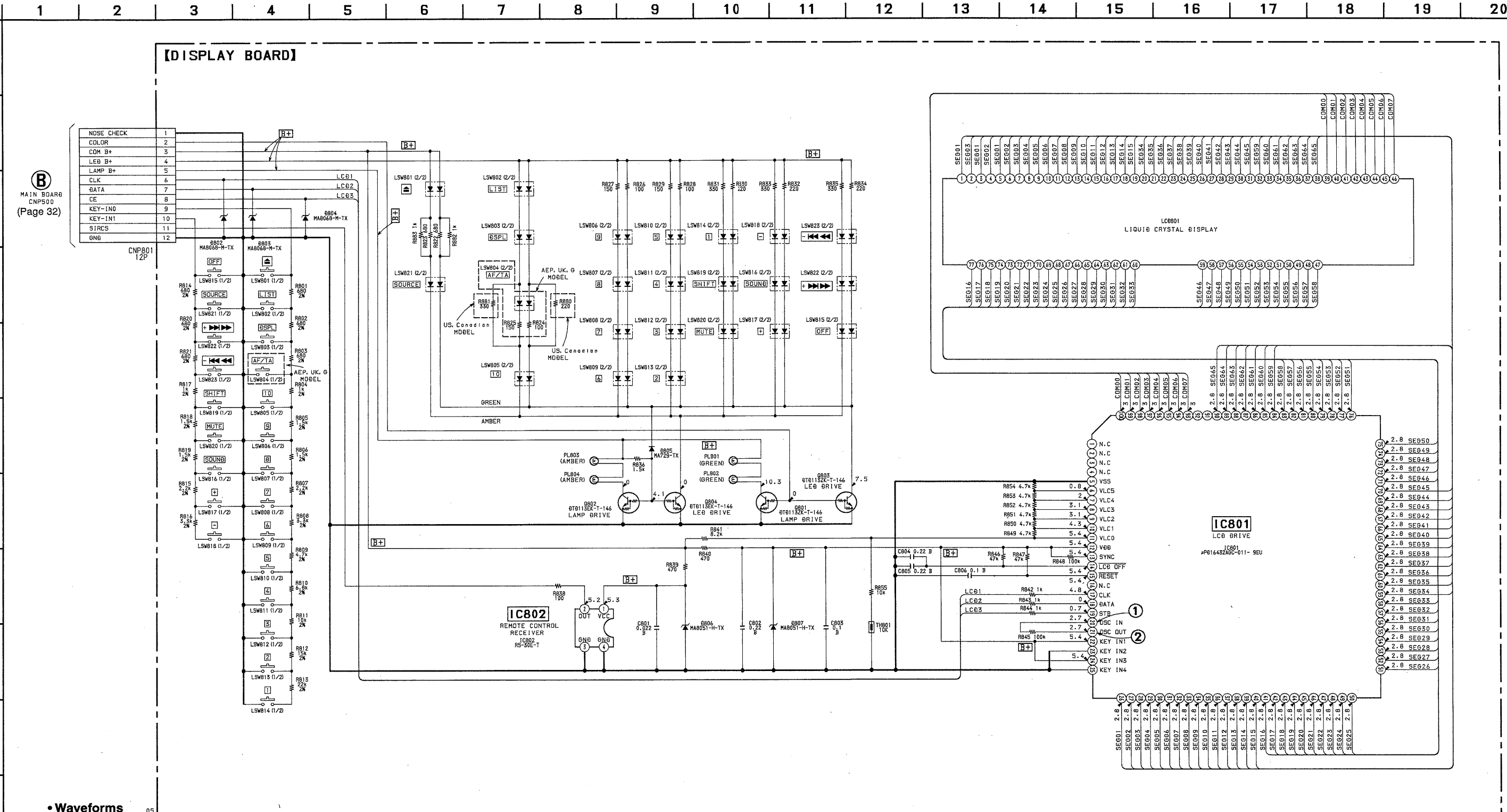
Caution:

Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.

Parts face side: Parts on the parts face side seen from the (Component Side) parts face are indicated.

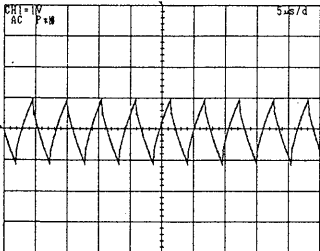
• Abbreviation
G: German

5-7. SCHEMATIC DIAGRAM – DISPLAY Section –

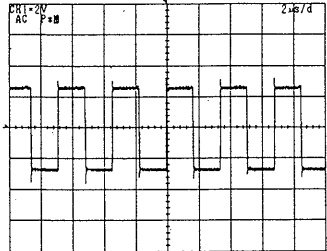


• Waveforms

① IC801 ② (OSC IN)
2.2 Vp-p, Approx. 183 kHz



② IC801 ③ (OSC OUT)
6.7 Vp-p, Approx. 300 kHz

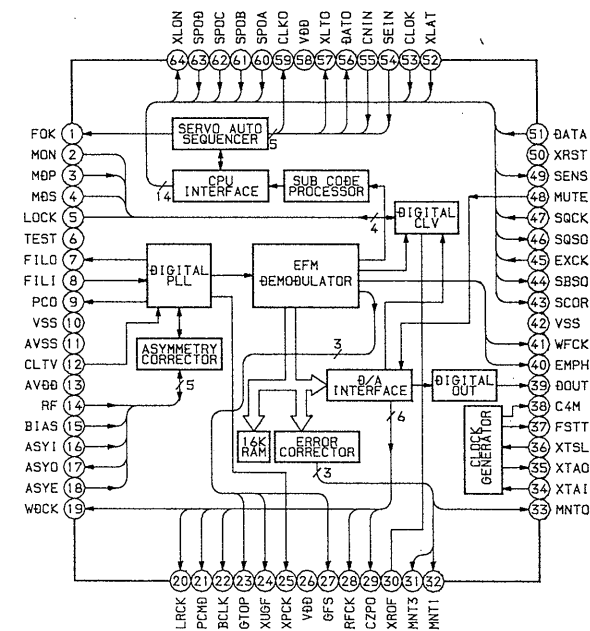


Note on Schematic Diagram:

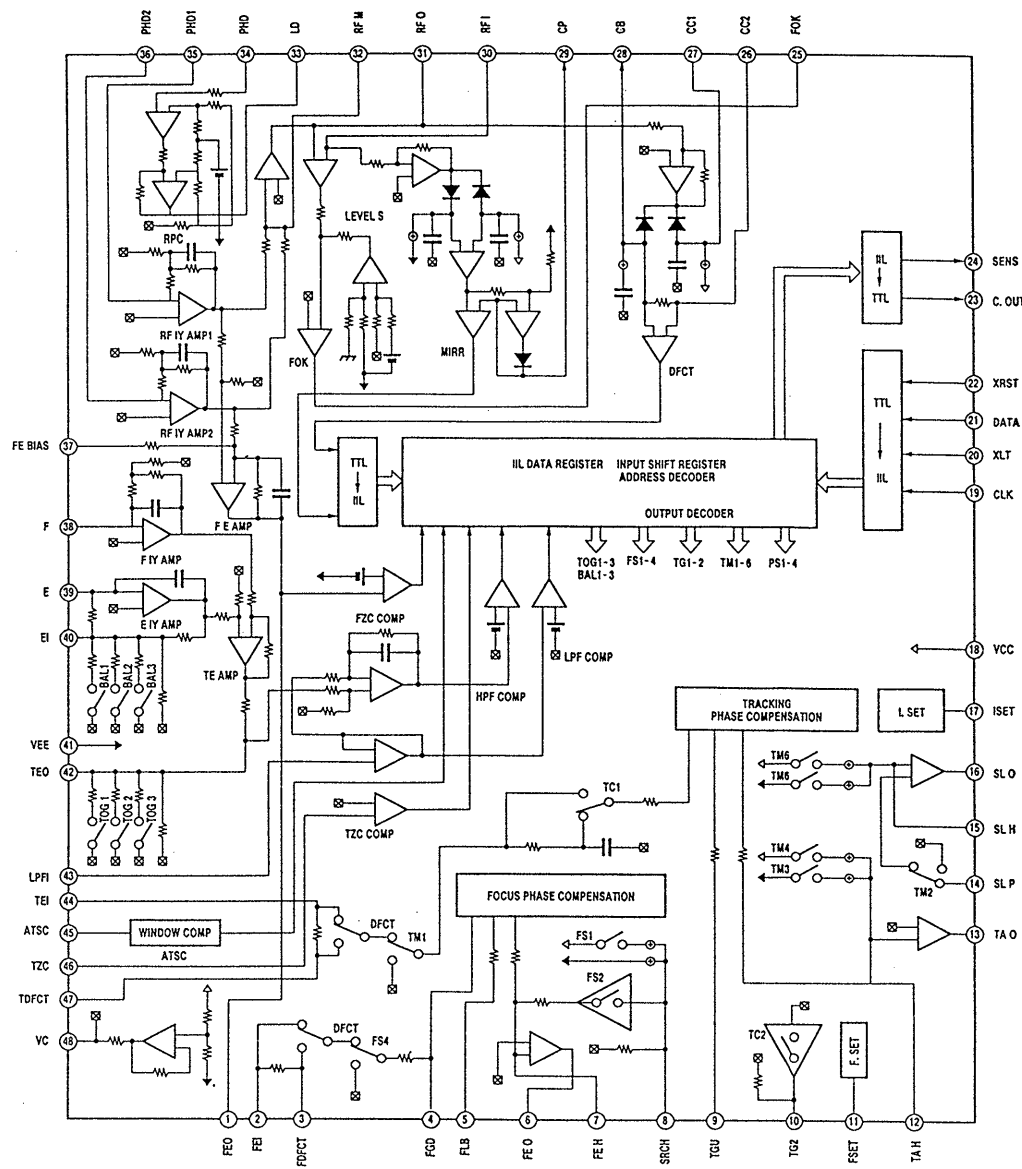
- All capacitors are in μF unless otherwise noted. μF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line.
- Panel designation.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltagess and waveforms are dc with respect to ground under no-signal conditions.
- no mark : CD
- Voltagess are taken with a VOM (10 M Ω /V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
G: German

• IC Block Diagrams
- MECHANISM DECK SECTION -

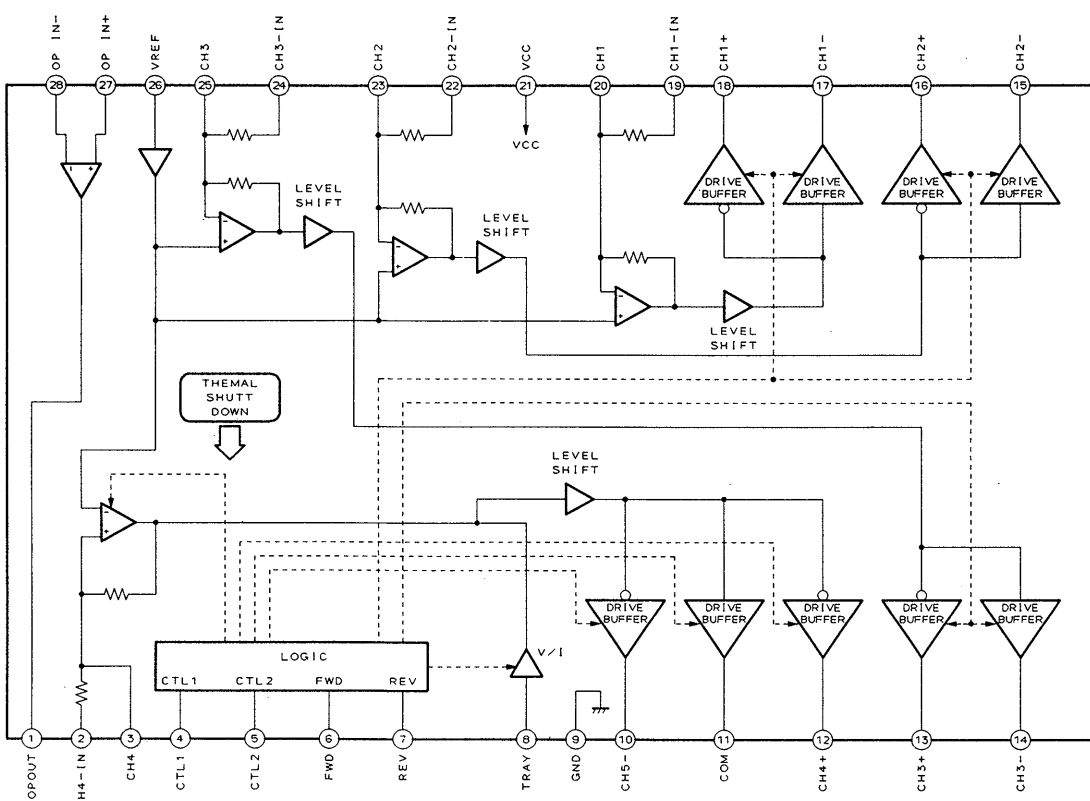
IC1 CXD2507AQ



IC2 CXA1782BQ

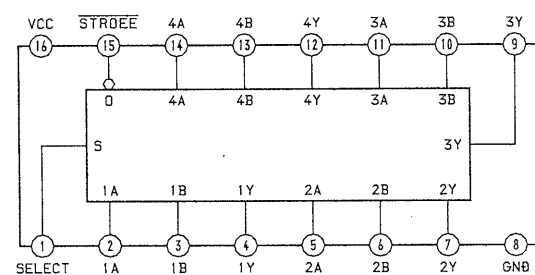


IC3 BA6796FP-T1

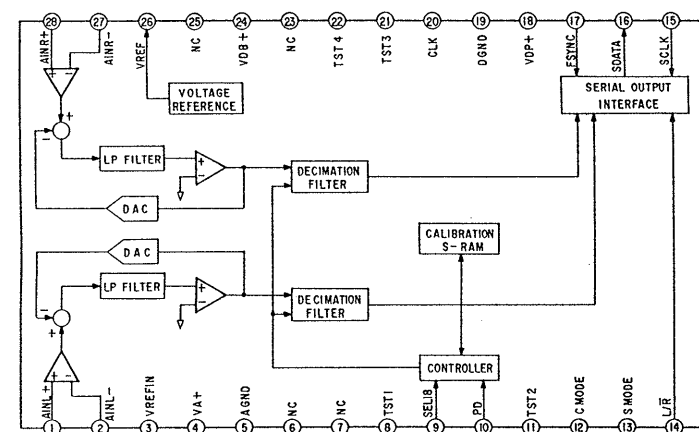


- MAIN SECTION -

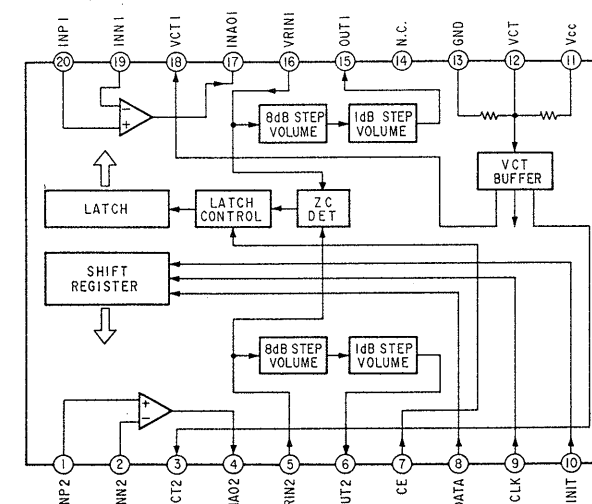
IC302 TC74HC157AF



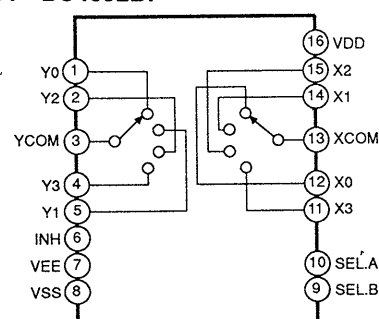
IC303 AK5340-VS



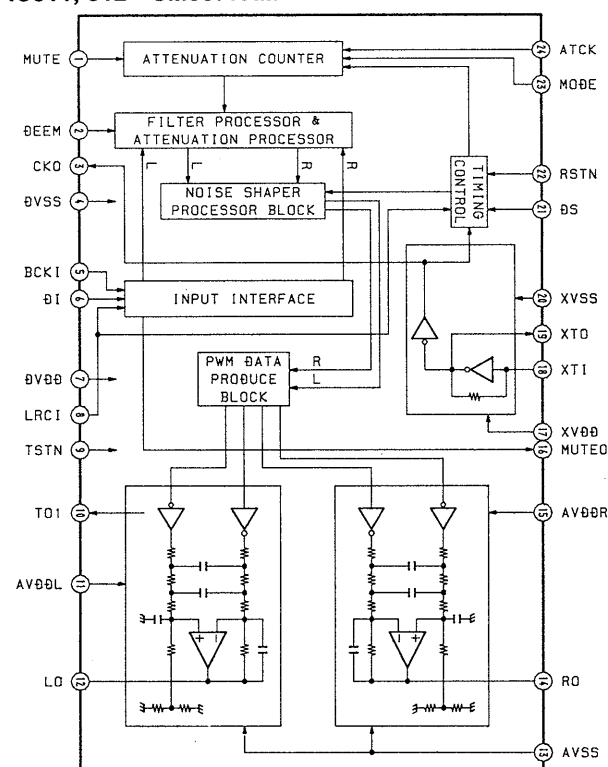
IC316, 317 CXA1846N



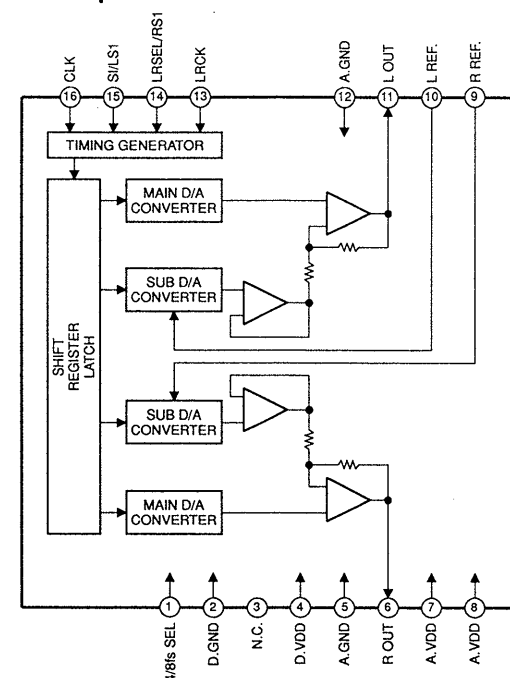
IC304 BU4052BF



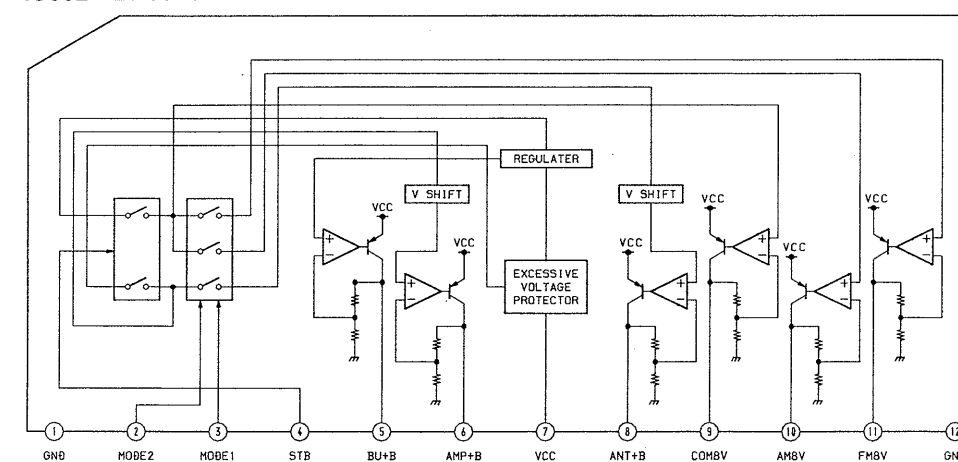
IC311, 312 SM5877AM



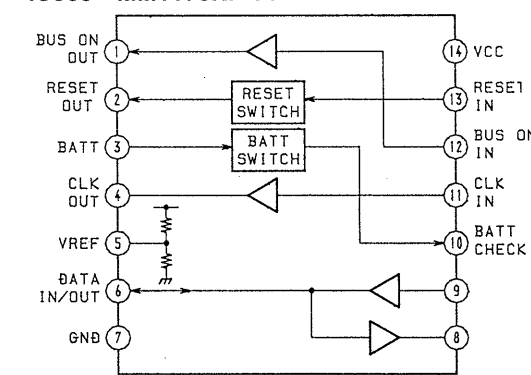
IC315 μ PD6376GS



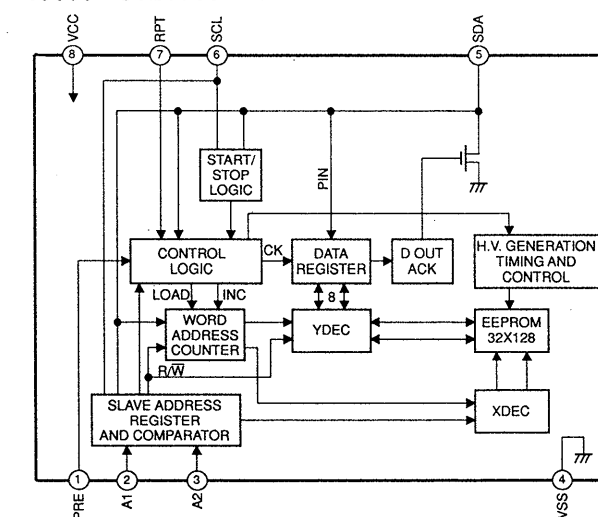
IC502 BA3918-V2



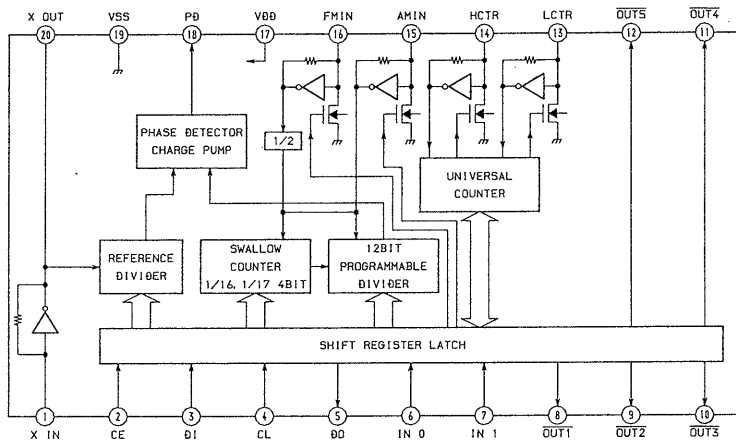
IC503 MM1175XF-T1



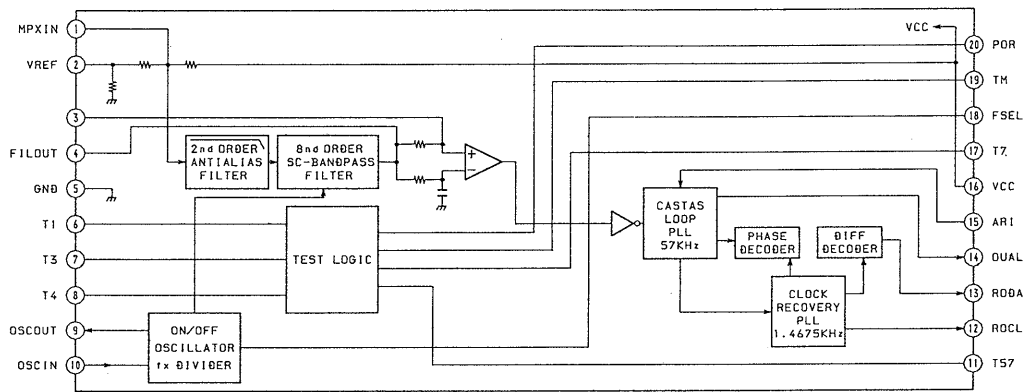
IC506 ST24C08FM6TR



IC602 LC7216M

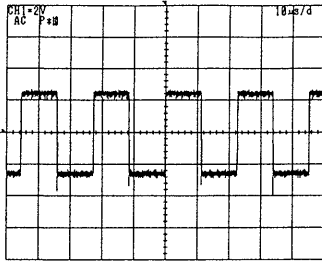


IC605 TDA7330BD-013TR (AEP, UK, German Model only)

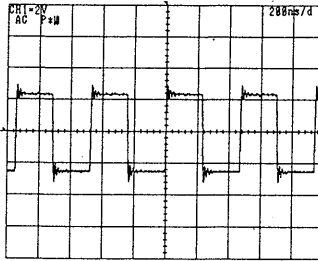


• Waveforms –Main Section –

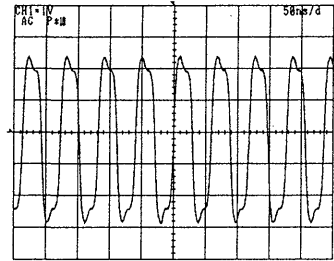
① IC302 ② (A1)
5.4 Vp-p, 22.6 μ sec



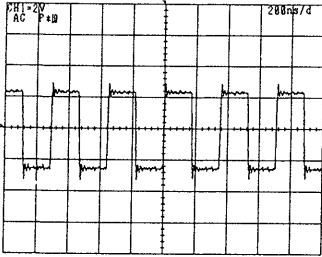
⑥ IC301 ⑧ (BCK), IC302 ⑦ (Y2)
5.4 Vp-p, 474 nsec



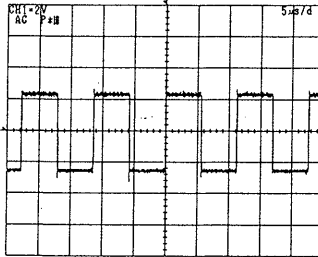
⑪ IC311 ⑩ (XTO)
5.4 Vp-p, 16 MHz



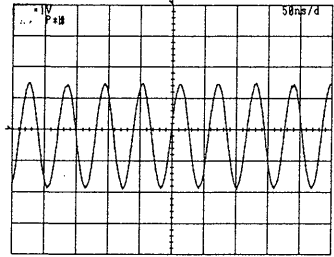
② IC302 ⑤ (A2)
5.4 Vp-p, 352 nsec



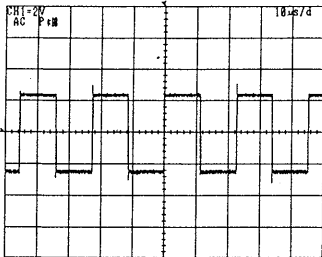
⑦ IC303 ⑩ (FSYNC), IC319 ① (CK)
5.6 Vp-p, 11.4 μ sec



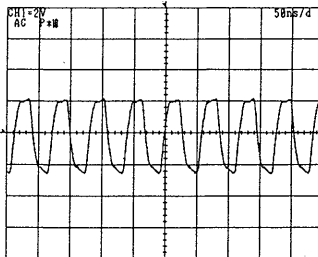
⑫ IC311 ⑩ (XTI)
3.4 Vp-p, 16 MHz



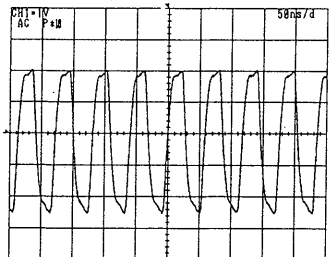
③ IC302 ③ (B1), IC303 ⑭ (LRCK),
IC319 ② (D), IC319 ⑤ (Q)
5.4 Vp-p, 22.6 μ sec



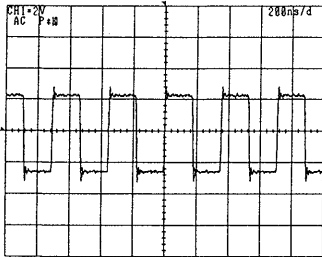
⑧ IC303 ⑩ (CLK), IC310 ①,
IC311 ③ (CKO)
4.7 Vp-p, 16.95 MHz



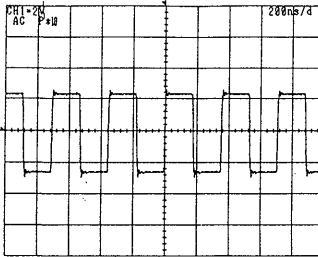
⑬ IC312 ⑩ (XTI)
4.6 Vp-p, 16 MHz



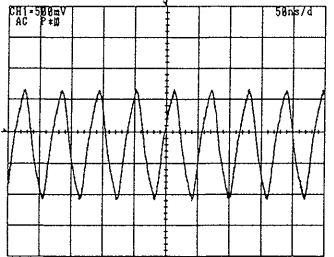
④ IC302 ⑥ (B2), IC303 ⑮ (BCK)
5.4 Vp-p, 352 nsec



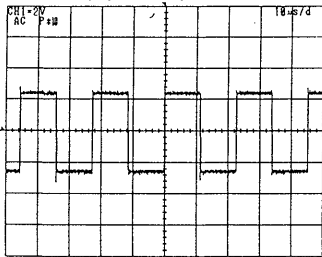
⑨ IC311 ⑤, IC312 ⑤ (BCKI),
IC315 ⑮ (BCK)
5.5 Vp-p, 352 nsec



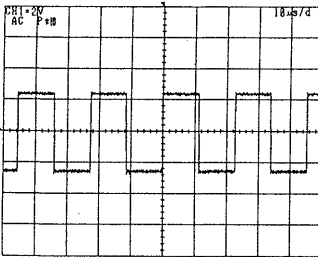
⑭ CN1 ⑮ (C16MIN)
3.4 Vp-p, 16.95 MHz



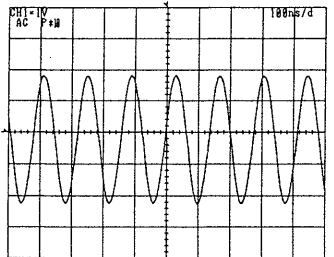
⑤ IC301 ⑨ (LRCK), IC302 ④ (Y1)
5.4 Vp-p, 22.6 μ sec



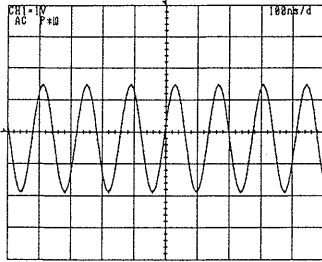
⑩ IC311 ⑧, IC312 ⑧ (LRCI),
IC315 ⑮ (LRCK)
5.4 Vp-p, 22.6 μ sec



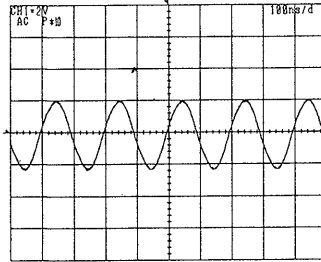
⑮ IC602 ⑮ (XOUT)
4.1 Vp-p, 7.2 MHz



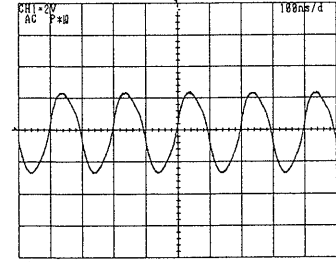
16 IC602 ① (XIN)
3.4 Vp-p, 7.2 MHz



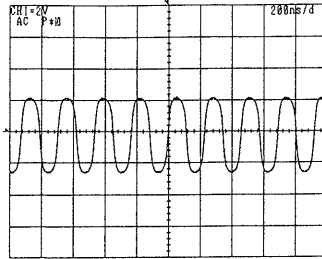
21 IC505 ⑦⑩ (X1)
4.4 Vp-p, 5 MHz



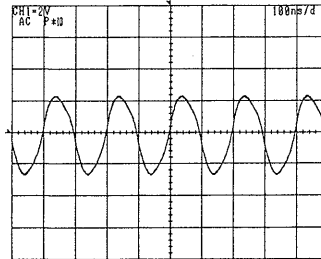
25 IC501 ⑥⑨ (X2)
5.2 Vp-p, 5 MHz



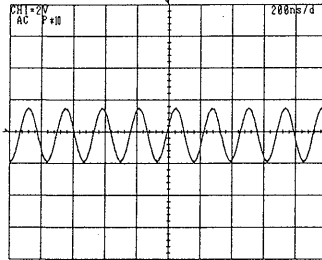
17 IC605 ⑨ (XO)
4.9 Vp-p, 4.3 MHz



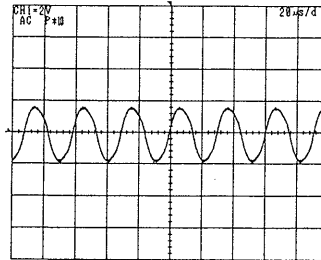
22 IC505 ⑥⑨ (X2)
5 Vp-p, 5 MHz



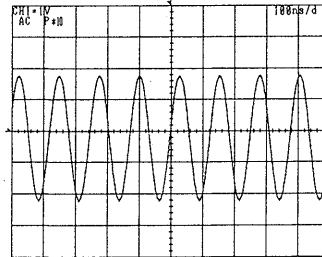
18 IC605 ⑩ (XI)
3.4 Vp-p, 4.3 MHz



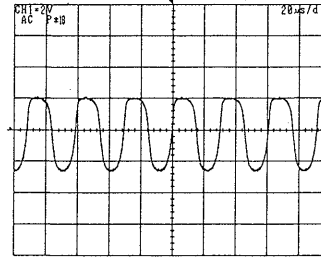
23 IC501 ⑦⑨ (XT1)
3.5 Vp-p, 32 kHz



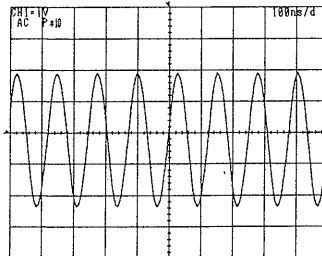
19 IC601 ⑧ (X1)
4 Vp-p, 8 MHz



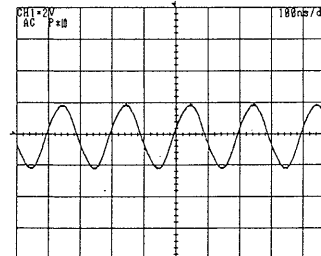
24 IC501 ⑦⑨ (XT2)
4.7 Vp-p, 32 kHz



20 IC601 ⑨ (X2)
4.4 Vp-p, 8 MHz



25 IC501 ⑦⑩ (X1)
4.2 Vp-p, 5 MHz



SECTION 6

EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) ... (RED)

↑
Parts Color

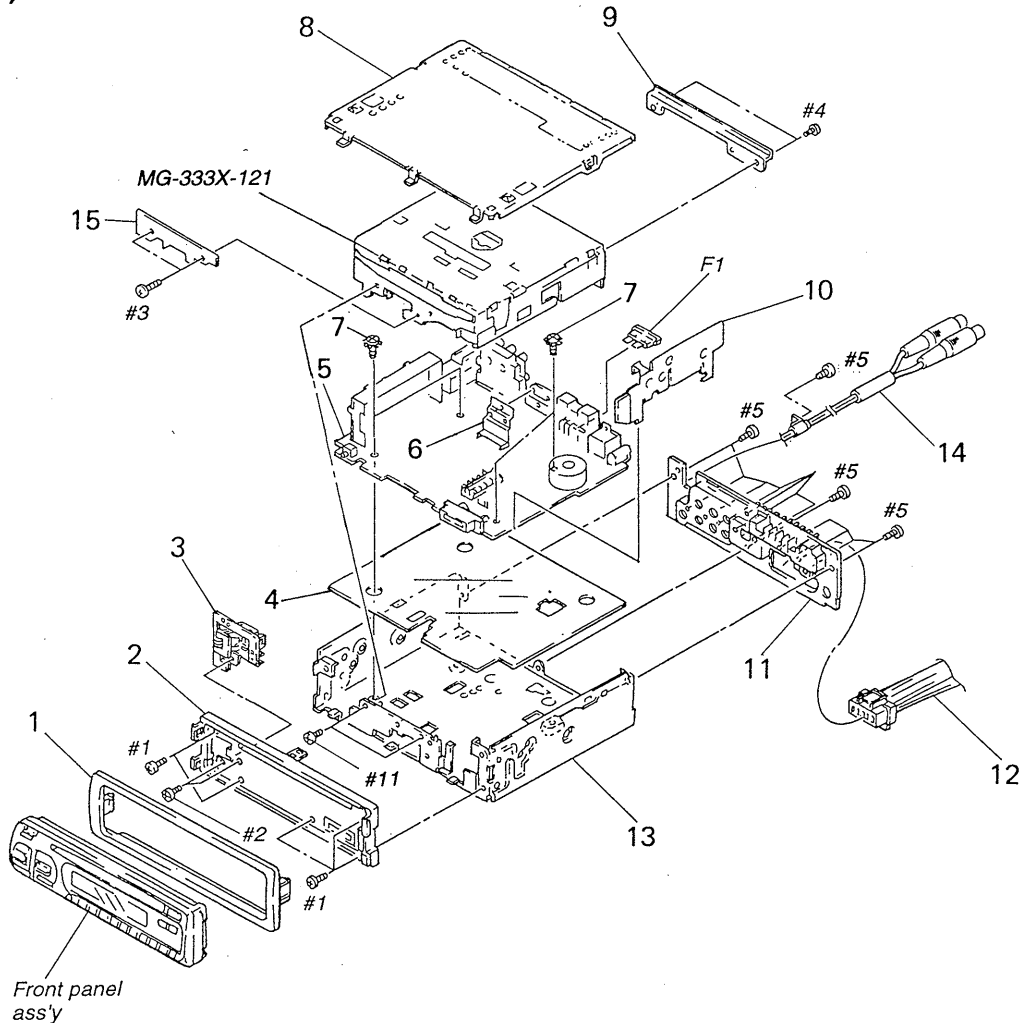
↑
Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (#mark) list and accessories and packing materials are given in the last of the electrical parts list.

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.

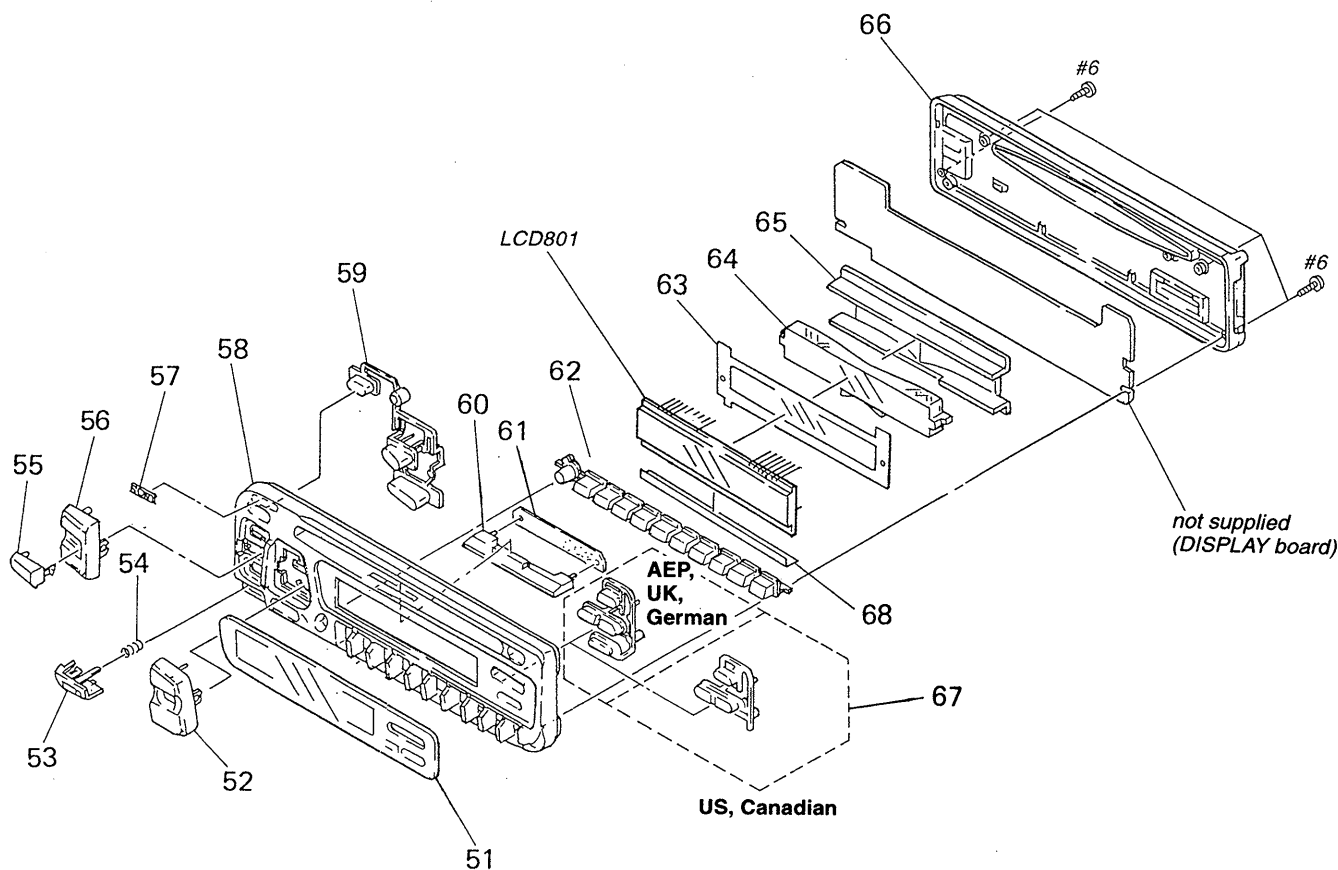
(1) GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	3-932-910-01	COLLAR	
2	X-3371-627-1	PANEL (SUB) ASSY (US, Canadian, German)	
2	X-3371-628-1	PANEL (SUB) ASSY (AEP, UK)	
3	X-3367-636-1	LOCK ASSY	
* 4	3-932-908-01	SHEET, INSULATING	
* 5	A-3294-014-A	MAIN BOARD, COMPLETE (US, Canadian)	
* 5	A-3294-047-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 5	A-3294-058-A	MAIN BOARD, COMPLETE (German)	
* 6	3-932-893-01	BRACKET (IC)	
7	3-915-923-01	SCREW, GROUND POINT	
* 8	X-3371-629-1	COVER ASSY	

Ref. No.	Part No.	Description	Remark
* 9	3-932-894-01	BRACKET (MD)	
* 10	3-932-909-01	SINK (IC), HEAT	
* 11	3-932-896-01	SINK, HEAT (AEP, UK)	
* 11	3-932-896-11	SINK, HEAT (UC, Canadian, German)	
12	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	(US, Canadian)
12	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP, UK, German)
* 13	3-932-907-01	CHASSIS	
14	1-751-000-51	CORD (WITH CONNECTOR) (LINE OUT)	
15	3-935-079-01	BRACKET (MD), FRONT	
F1	1-532-982-11	FUSE (BRAD TYPE) (AUTO FUSE) (15A)	

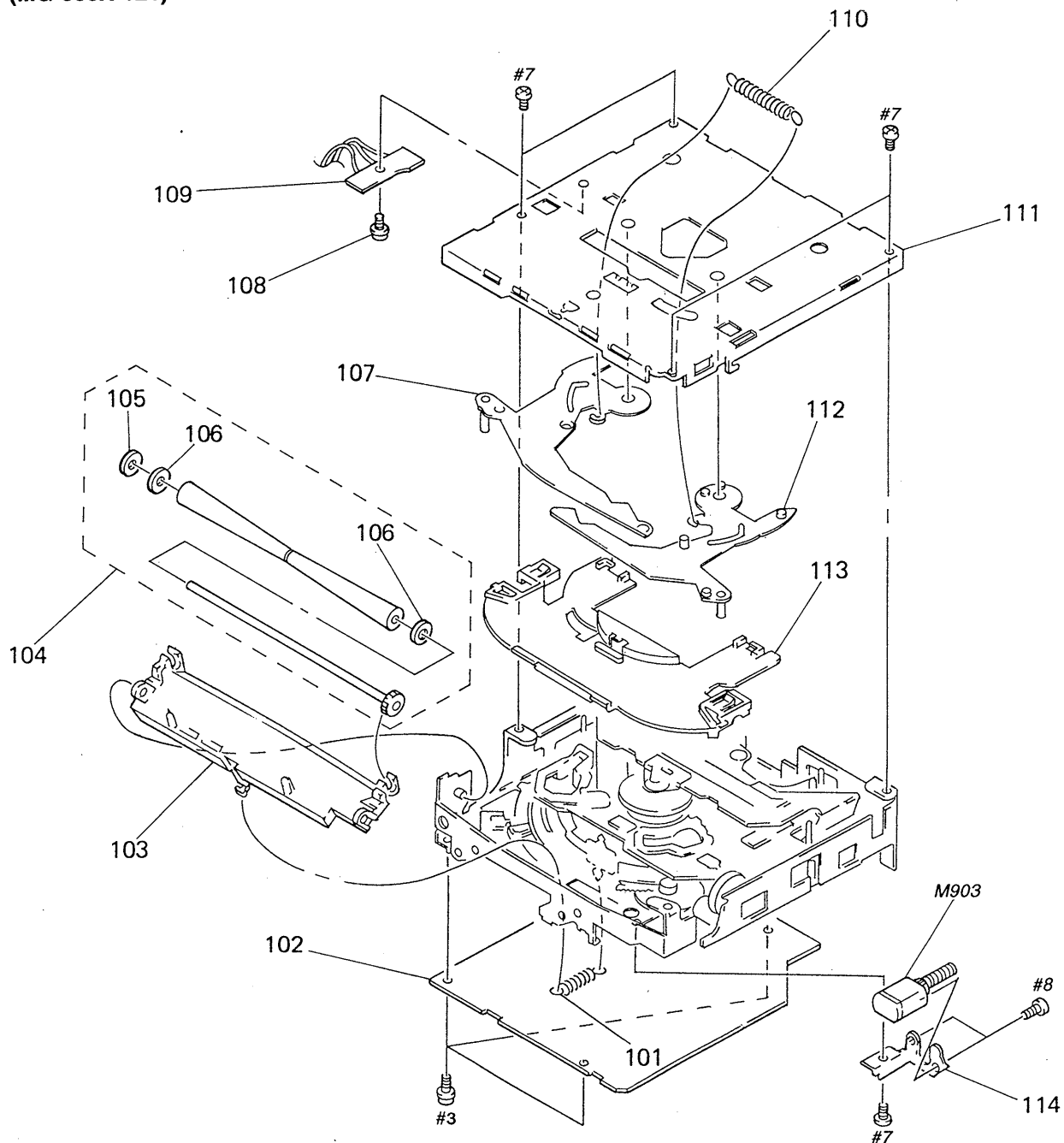
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-932-906-01	PLATE (WINDOW), INDICATION (US)	
51	3-932-906-11	PLATE (WINDOW), INDICATION (Canadian)	
51	3-932-906-21	PLATE (WINDOW), INDICATION (AEP, UK, German)	
52	3-932-902-01	BUTTON (+.-)	
53	3-932-905-01	BUTTON (RELEASE)	
54	3-914-590-01	SPRING (R2)	
55	3-932-901-01	BUTTON (SOURCE)	
56	3-932-900-01	BUTTON (SEEK) (+. >>> <<< -)	
57	3-904-194-01	EMBLEM (NO. 2.5), SONY	
58	3-932-904-01	PANEL, FRONT (US)	
58	3-932-904-11	PANEL, FRONT (Canadian, AEP, UK, German)	
59	3-932-903-01	BUTTON (SOUND) (OFF. SOUND. MUTE)	
60	3-932-889-01	PLATE (F), LIGHT GUIDE	
61	3-932-898-01	SHEET (F)	

Ref. No.	Part No.	Description	Remark
62	3-932-892-01	BUTTON (10 KEY) (●. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10) (US, AEP, UK, German)	
62	3-932-892-11	BUTTON (10 KEY) (●. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10) (Canadian)	
* 63	3-932-890-01	SHEET, DIFFUSION	
* 64	3-932-888-01	PLATE (LCD), LIGHT GUIDE	
* 65	3-932-887-01	HOLDER (LCD)	
66	3-932-899-01	PANEL, BACK (US)	
66	3-932-899-11	PANEL, BACK (Canadian, AEP, UK, German)	
67	3-932-897-01	BUTTON (EJECT) (▲ DSPL. LIST) (US, Canadian)	
67	3-932-897-11	BUTTON (EJECT) (▲ DSPL. LIST. AF/TA) (AEP, UK, German)	
68	3-935-366-01	SHEET (ELECTROSTATIC)	
LCD801 1-801-240-11 DISPLAY PANEL, LIQUID CRYSTAL			

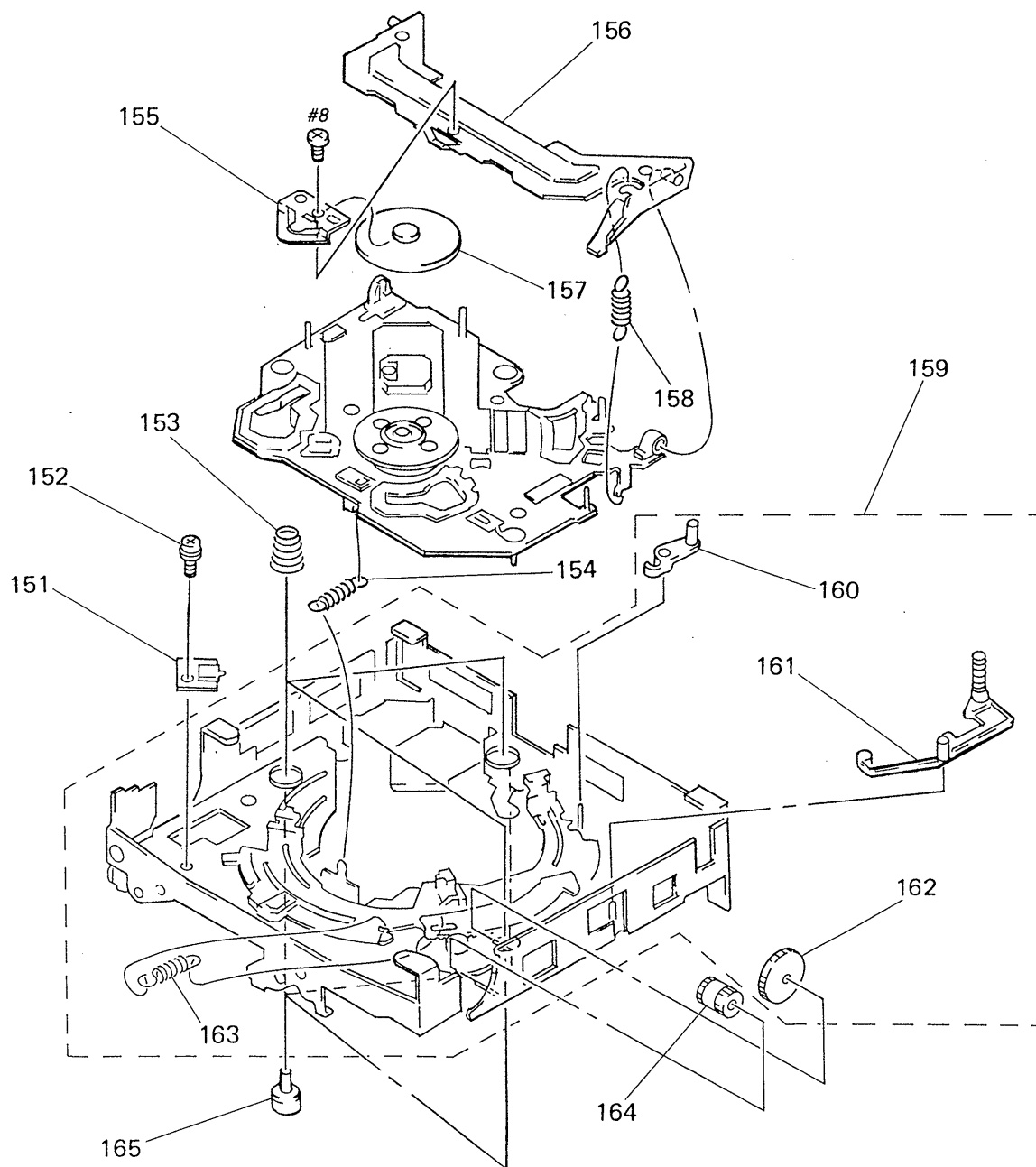
(3) MECHANISM DECK SECTION-1
(MG-333X-121)



Ref. No.	Part No.	Description	Remark
101	3-931-916-01	SPRING (RA), TENSION	
* 102	A-3309-021-A	SERVO BOARD, COMPLETE	
103	3-931-902-01	ARM (ROLLER)	
104	A-3291-567-A	ROLLER ASSY	
105	3-701-439-11	WASHER	
* 106	3-322-413-01	SPACER, INSULATING	
* 107	X-3371-501-1	LEVER (L) ASSY	
108	3-338-737-01	SCREW (2X3), +PS	

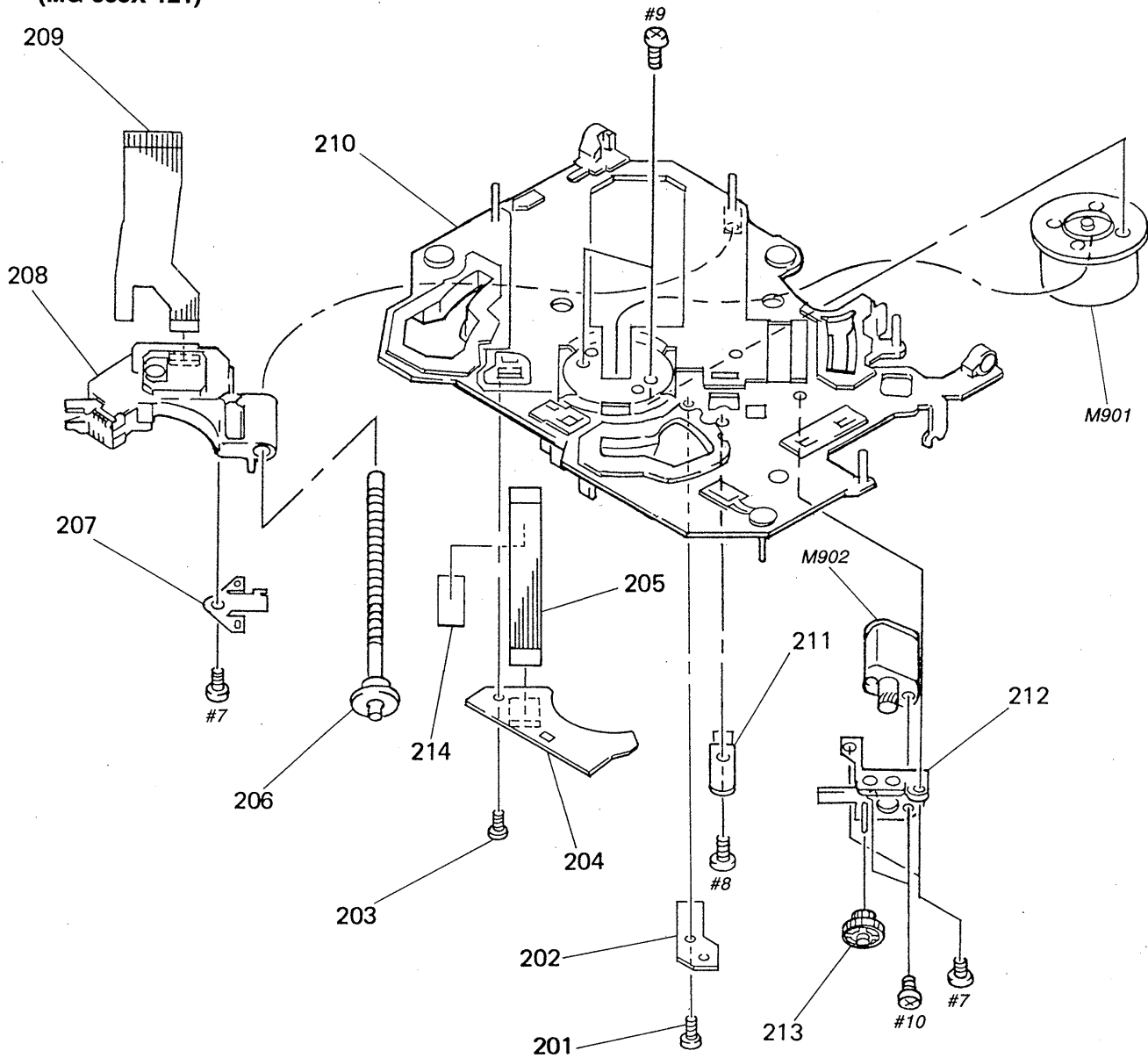
Ref. No.	Part No.	Description	Remark
* 109	1-659-836-11	DISC IN SW BOARD	
110	3-931-909-02	SPRING (LR), TENSION	
* 111	3-931-903-01	CHASSIS (T)	
* 112	X-3371-502-1	LEVER (R) ASSY	
* 113	3-931-908-01	GUIDE (DISC)	
* 114	3-931-899-01	BRACKET (MOTOR)	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	

**(4) MECHANISM DECK SECTION-2
(MG-333X-121)**



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
* 151	1-659-837-11	LOAD SW BOARD		159	A-3291-568-A	CHASSIS (M) ASSY BOARD, COMPLETE	
152	3-338-737-01	SCREW (2X3), +PS		160	3-931-881-01	LEVER (LOCK)	
153	3-931-898-01	SPRING (FL), COMPRESSION		161	3-931-879-02	LEVER (D)	
154	3-931-914-01	SPRING (ANGLE), TENSION		162	3-931-882-02	GEAR (MDL)	
155	3-931-894-01	BRACKET (CP)		163	3-931-883-01	SPRING (TR), TENSION	
156	3-931-893-01	ARM, CHUCKING		164	3-934-879-01	WHEEL (U), WORM	
* 157	3-384-918-01	RETAINER (DISC)		165	3-931-897-01	DAMPER (T)	
158	3-931-895-01	SPRING (CH), TENSION					

(5) MECHANISM DECK SECTION-3
(MG-333X-121)



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	Remark	Ref. No.	Part No.	Description	Remark
201	3-338-737-01	SCREW (2X3), +PS		209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
* 202	1-659-835-11	LIMIT SW BOARD		* 210	X-3371-503-1	CHASSIS (OP) (O/S) ASSY	
203	3-909-607-01	SCREW		211	3-931-829-01	SPRING (SL), PLATE	
* 204	1-659-834-11	SUB BOARD		212	X-3371-504-1	BASE (DRIVING) ASSY	
205	1-659-880-11	MOTOR FLEXIBLE BOARD		213	3-931-832-01	GEAR (SL MIDWAY)	
206	A-3291-571-A	SHAFT (FEED) ASSY		214	3-831-444-11	CUSHION (B)	
207	3-931-834-01	SPRING (FEED), PLATE		M901	X-3371-664-1	MOTOR ASSY (SPINDLE)	
Δ 208	8-848-402-02	OPTICAL PICK-UP KSS-520A		M902	A-3291-574-A	MOTOR ASSY, SLED	

SECTION 7 ELECTRICAL PARTS LIST

DISC IN SW

DISPLAY

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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation G: German

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A.. uPA...: μ PA..
uPB...: μ PB.. uPC...: μ PC.. uPD...: μ PD..
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by reference number, please include the board.

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	Remark
*	1-659-836-11	DISC IN SW BOARD *****	
		< SWITCH >	
SW1	1-572-288-11	SWITCH, PUSH (DISC IN)	
SW2	1-572-288-11	SWITCH, PUSH (SELF)	

		DISPLAY BOARD *****	
*	3-932-887-01	HOLDER (LCD)	
*	3-932-888-01	PLATE (LCD), LIGHT GUIDE	
	3-935-366-01	SHEET (ELECTROSTATIC)	
		< CAPACITOR >	
C801	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C802	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C803	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C804	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C805	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C806	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CNP801	1-764-423-11	PIN, CONNECTOR 12P	
		< DIODE >	
D802	8-719-977-12	DIODE DTZ6.8B	
D803	8-719-977-12	DIODE DTZ6.8B	
D804	8-719-977-12	DIODE DTZ6.8B	
D805	8-719-420-51	DIODE MA729	
D806	8-719-422-43	DIODE MA8051-H	
D807	8-719-422-43	DIODE MA8051-H	
		< IC >	
IC801	8-759-331-68	IC uPD16432AGC-011-9EU	
IC802	8-749-925-07	IC RS-30E-T	

Ref.No.	Part No.	Description	Remark
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-801-240-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< SWITCH >	
LSW801	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (Δ)	
LSW802	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (LIST)	
LSW803	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (DSPL)	
LSW804	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (AF/TA) (AEP, UK, G)	
LSW805	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (10)	
LSW806	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (9)	
LSW807	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (8)	
LSW808	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (7)	
LSW809	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (6)	
LSW810	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (5)	
LSW811	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (4)	
LSW812	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (3)	
LSW813	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (2)	
LSW814	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (1)	
LSW815	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (OFF)	
LSW816	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOUND)	
LSW817	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+)	
LSW818	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (-)	
LSW819	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SHIFT)	
LSW820	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (MUTE)	
LSW821	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	
LSW822	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ $\Rightarrow$ $\Rightarrow$)	
LSW823	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (- $\Leftarrow$ $\Leftarrow$)	
		< PILOT LAMP >	
PL801	1-517-533-21	LAMP, PILOT (GREEN)	
PL802	1-517-533-21	LAMP, PILOT (GREEN)	
PL803	1-517-533-11	LAMP, PILOT (AMBER)	
PL804	1-517-533-11	LAMP, PILOT (AMBER)	
		< TRANSISTOR >	
Q801	8-729-904-78	TRANSISTOR DTD113ZK	
Q802	8-729-904-66	TRANSISTOR DTD113EK	
Q803	8-729-904-78	TRANSISTOR DTD113ZK	
Q804	8-729-904-66	TRANSISTOR DTD113EK	

DISPLAY
LIMIT SW
LOAD SW
MAIN
**SEE ADDITIONAL
INFORMATION**

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R801	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R802	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R803	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R804	1-208-437-41	METAL CHIP	1K	2%	1/10W
R805	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R806	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R807	1-208-445-41	METAL CHIP	2.2K	2%	1/10W
R808	1-208-449-41	METAL CHIP	3.3K	2%	1/10W
R809	1-208-453-41	METAL CHIP	4.7K	2%	1/10W
R810	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R811	1-208-462-41	METAL CHIP	10K	2%	1/10W
R812	1-208-810-11	METAL CHIP	15K	2%	1/10W
R813	1-208-518-41	METAL CHIP	22K	2%	1/10W
R814	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R815	1-208-445-41	METAL CHIP	2.2K	2%	1/10W
R816	1-208-449-41	METAL CHIP	3.3K	2%	1/10W
R817	1-208-437-41	METAL CHIP	1K	2%	1/10W
R818	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R819	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R820	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R821	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R822	1-216-045-00	METAL CHIP	680	5%	1/10W
R823	1-216-045-00	METAL CHIP	680	5%	1/10W
R824	1-216-025-00	METAL CHIP	100	5%	1/10W(AEP, UK, G)
R825	1-216-029-00	METAL CHIP	150	5%	1/10W(AEP, UK, G)
R826	1-216-025-00	METAL CHIP	100	5%	1/10W
R827	1-216-029-00	METAL CHIP	150	5%	1/10W
R828	1-216-025-00	METAL CHIP	100	5%	1/10W
R829	1-216-029-00	METAL CHIP	150	5%	1/10W
R830	1-216-033-00	METAL CHIP	220	5%	1/10W
R831	1-216-037-00	METAL CHIP	330	5%	1/10W
R832	1-216-033-00	METAL CHIP	220	5%	1/10W
R833	1-216-037-00	METAL CHIP	330	5%	1/10W
R834	1-216-033-00	METAL CHIP	220	5%	1/10W
R835	1-216-037-00	METAL CHIP	330	5%	1/10W
R836	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R838	1-216-025-00	METAL CHIP	100	5%	1/10W
R839	1-216-041-00	METAL CHIP	470	5%	1/10W
R840	1-216-041-00	METAL CHIP	470	5%	1/10W
R841	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R842	1-216-049-00	METAL CHIP	1K	5%	1/10W
R843	1-216-049-00	METAL CHIP	1K	5%	1/10W
R844	1-216-049-00	METAL CHIP	1K	5%	1/10W
R845	1-216-097-00	METAL CHIP	100K	5%	1/10W
R846	1-216-089-00	METAL CHIP	47K	5%	1/10W
R847	1-216-089-00	METAL CHIP	47K	5%	1/10W
R848	1-216-097-00	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R849	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R850	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R851	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R852	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R853	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R854	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R855	1-216-073-00	METAL CHIP	10K	5%	1/10W
R880	1-216-033-00	METAL CHIP	220	5%	1/10W(US, Canadian)
R881	1-216-037-00	METAL CHIP	330	5%	1/10W(US, Canadian)
R882	1-216-049-00	METAL CHIP	1K	5%	1/10W
R883	1-216-049-00	METAL CHIP	1K	5%	1/10W
< THERMISTOR >					
TH801	1-810-421-11	THERMISTOR	NTH5G36B103K01TE	10K	

*	1-659-835-11	LIMIT SW BOARD	*****		
< SWITCH >					
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	*****		

*	1-659-837-11	LOAD SW BOARD	*****		
< SWITCH >					
SW4	1-572-288-11	SWITCH, PUSH (DOWN)	*****		

*	A-3294-014-A	MAIN BOARD, COMPLETE (US, Canadian)			
*	A-3294-047-A	MAIN BOARD, COMPLETE (AEP, UK)			
*	A-3294-058-A	MAIN BOARD, COMPLETE (G)	*****		

*	3-917-877-01	CASE, SHIELD			
*	3-932-893-01	BRACKET (IC)			
*	3-932-909-01	SINK (IC), HEAT			
< CAPACITOR >					
C100	1-164-346-11	CERAMIC CHIP	1uF		16V
C101	1-126-160-11	ELECT	1uF	20%	50V
C102	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C103	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C104	1-124-589-11	ELECT	47uF	20%	16V
C105	1-124-234-00	ELECT	22uF	20%	16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C108	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C109	1-162-957-11	CERAMIC CHIP	220PF	5%	50V

SEE ADDITIONAL
INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C110	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C228	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C111	1-126-288-11	ELECT	4.7uF	20%	16V	C229	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C112	1-164-346-11	CERAMIC CHIP	1uF		16V	C230	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C113	1-136-165-00	FILM	0.1uF	5%	50V	C231	1-126-288-11	ELECT	4.7uF	20%	16V
C114	1-136-165-00	FILM	0.1uF	5%	50V	C232	1-164-346-11	CERAMIC CHIP	1uF		16V
C115	1-136-162-00	FILM	0.056uF	5%	50V(US, Canadian)	C233	1-136-165-00	FILM	0.1uF	5%	50V
C115	1-136-161-00	FILM	0.047uF	5%	50V(AEP, UK, G)	C234	1-136-165-00	FILM	0.1uF	5%	50V
C116	1-164-337-11	CERAMIC CHIP	2.2uF		16V	C235	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C117	1-126-157-11	ELECT	10uF	20%	16V	C236	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C126	1-164-346-11	CERAMIC CHIP	1uF		16V	C237	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C127	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C238	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C128	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C239	1-126-288-11	ELECT	4.7uF	20%	16V
C129	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C241	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C130	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C242	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C131	1-126-288-11	ELECT	4.7uF	20%	16V	C243	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C132	1-164-346-11	CERAMIC CHIP	1uF		16V	C244	1-126-288-11	ELECT	4.7uF	20%	16V
C133	1-136-165-00	FILM	0.1uF	5%	50V	C245	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C134	1-136-165-00	FILM	0.1uF	5%	50V	C300	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C135	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C301	1-126-288-11	ELECT	4.7uF	20%	16V
C136	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C137	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	C303	1-126-153-11	ELECT	22uF	20%	6.3V
C138	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C139	1-126-288-11	ELECT	4.7uF	20%	16V	C305	1-126-153-11	ELECT	22uF	20%	6.3V
C141	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C142	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C307	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C143	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C144	1-126-288-11	ELECT	4.7uF	20%	16V	C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C145	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	C310	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C200	1-164-346-11	CERAMIC CHIP	1uF		16V	C311	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C201	1-126-160-11	ELECT	1uF	20%	50V	C312	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	C313	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C203	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C314	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-124-589-11	ELECT	47uF	20%	16V	C315	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C205	1-124-234-00	ELECT	22uF	20%	16V	C316	1-126-153-11	ELECT	22uF	20%	6.3V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V	C317	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C318	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C208	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C319	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C209	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	C320	1-126-933-11	ELECT	100uF	20%	16V
C210	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C321	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C211	1-126-288-11	ELECT	4.7uF	20%	16V	C322	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C212	1-164-346-11	CERAMIC CHIP	1uF		16V	C323	1-124-234-00	ELECT	22uF	20%	16V
C213	1-136-165-00	FILM	0.1uF	5%	50V	C324	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C214	1-136-165-00	FILM	0.1uF	5%	50V	C325	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C215	1-136-162-00	FILM	0.056uF	5%	50V(US, Canadian)	C326	1-124-584-00	ELECT	100uF	20%	10V
C215	1-136-161-00	FILM	0.047uF	5%	50V(AEP, UK, G)	C327	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-164-337-11	CERAMIC CHIP	2.2uF		16V	C329	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C217	1-126-157-11	ELECT	10uF	20%	16V	C330	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C226	1-164-346-11	CERAMIC CHIP	1uF		16V	C331	1-126-153-11	ELECT	22uF	20%	6.3V
C227	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description	Remark
C332	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C333	1-124-584-00	ELECT	100uF 20% 10V
C334	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C335	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C336	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C337	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C338	1-124-234-00	ELECT	22uF 20% 16V
C339	1-124-234-00	ELECT	22uF 20% 16V
C340	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C341	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C342	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C343	1-124-234-00	ELECT	22uF 20% 16V
C344	1-124-234-00	ELECT	22uF 20% 16V
C345	1-124-234-00	ELECT	22uF 20% 16V
C346	1-124-589-11	ELECT	47uF 20% 16V
C347	1-124-589-11	ELECT	47uF 20% 16V
C348	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C349	1-164-506-11	CERAMIC CHIP	4.7uF 16V
C350	1-164-506-11	CERAMIC CHIP	4.7uF 16V
C351	1-164-506-11	CERAMIC CHIP	4.7uF 16V
C352	1-124-234-00	ELECT	22uF 20% 16V
C353	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C354	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C355	1-124-234-00	ELECT	22uF 20% 16V
C356	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C357	1-164-337-11	CERAMIC CHIP	2.2uF 16V
C358	1-162-919-11	CERAMIC CHIP	22PF 5% 50V
C359	1-164-506-11	CERAMIC CHIP	4.7uF 16V
C501	1-115-469-21	ELECT	4700uF 16V
C502	1-126-160-11	ELECT	1uF 20% 50V
C503	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C504	1-164-346-11	CERAMIC CHIP	1uF 16V
C505	1-124-234-00	ELECT	22uF 20% 16V
C506	1-124-234-00	ELECT	22uF 20% 16V
C507	1-124-234-00	ELECT	22uF 20% 16V
C508	1-124-234-00	ELECT	22uF 20% 16V
C509	1-124-234-00	ELECT	22uF 20% 16V
C510	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C511	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C512	1-125-701-11	DOUBLE LAYER	0.047F 5.5V
C513	1-126-369-11	ELECT	220uF 20% 6.3V
C514	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V
C515	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V
C516	1-163-243-11	CERAMIC CHIP	47PF 5% 50V
C517	1-164-346-11	CERAMIC CHIP	1uF 16V
C518	1-164-346-11	CERAMIC CHIP	1uF 16V
C519	1-164-346-11	CERAMIC CHIP	1uF 16V
C520	1-126-157-11	ELECT	10uF 20% 16V

Ref. No.	Part No.	Description	Remark
C521	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C522	1-124-242-00	ELECT	33uF 20% 16V
C523	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C524	1-126-176-11	ELECT	220uF 20% 10V
C525	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C526	1-126-176-11	ELECT	220uF 20% 10V
C527	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C528	1-126-176-11	ELECT	220uF 20% 10V
C529	1-124-584-00	ELECT	100uF 20% 10V
C530	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V
C531	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C532	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C533	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C535	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C536	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
C537	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C538	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C540	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C599	1-164-506-11	CERAMIC CHIP	4.7uF 16V
C601	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C603	1-124-589-11	ELECT	47uF 20% 16V
C604	1-126-933-11	ELECT	100uF 20% 16V
C605	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C606	1-124-584-00	ELECT	100uF 20% 10V
C607	1-136-165-00	FILM	0.1uF 5% 50V
C608	1-110-351-11	MYLAR	0.001uF 5% 50V
C609	1-136-169-00	FILM	0.22uF 5% 50V
C610	1-136-165-00	FILM	0.1uF 5% 50V
C611	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C612	1-136-161-00	FILM	0.047uF 5% 50V
C613	1-130-475-00	MYLAR	0.0022uF 5% 50V
C614	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C615	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C616	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C617	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C618	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C619	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C620	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C621	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C622	1-162-953-11	CERAMIC CHIP	100PF 5% 50V
C625	1-124-234-00	ELECT	22uF 20% 16V
C626	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
C627	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C628	1-164-489-11	CERAMIC CHIP	0.22uF 10% 16V
C629	1-126-157-11	ELECT	10uF 20% 16V
C630	1-163-127-00	CERAMIC CHIP	270PF 5% 50V (AEP, UK, G)
C631	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C632	1-163-038-00	CERAMIC CHIP	0.1uF 25V

SEE ADDITIONAL
INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark		
C633	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C634	1-164-346-11	CERAMIC CHIP	1uF		16V
C635	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C636	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (AEP, UK, G)
C637	1-126-157-11	ELECT	10uF	20%	16V (AEP, UK, G)
C638	1-164-232-11	CERAMIC CHIP	0.01uF		50V (AEP, UK, G)
C639	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (AEP, UK, G)
C640	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (AEP, UK, G)
C641	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP, UK, G)
C642	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK, G)
C643	1-163-038-00	CERAMIC CHIP	0.1uF		25V (AEP, UK, G)
C644	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C645	1-164-156-11	CERAMIC CHIP	0.1uF		25V (US, Canadian)
C646	1-164-156-11	CERAMIC CHIP	0.1uF		25V (US, Canadian)
C647	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (G)
C648	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (G)

< CONNECTOR/JACK >

CN1	1-764-617-12	PIN, CONNECTOR (PC BOARD)	30P
CN601	1-770-279-12	JACK ANTENNA (ISO) (ANT IN)	
CNJ501	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT)	
CNP500	1-764-422-11	PLUG, CONNECTOR	12P
CNP501	1-774-701-11	PIN, CONNECTOR	16P

CNP502	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
* CNP503	1-750-241-21	PIN, CONNECTOR (PC BOARD)	3P

< DISCHARGE GAP >

CP601	1-519-504-11	GAP, DISCHARGE	
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< DIODE >

D501	8-719-404-49	DIODE	MA111
D502	8-719-022-90	DIODE	MA8160M
D503	8-719-017-67	DIODE	MA8068H
D504	8-719-977-12	DIODE	DTZ6.8B
D505	8-719-977-03	DIODE	DTZ5.6B
D506	8-719-977-03	DIODE	DTZ5.6B
D507	8-719-017-67	DIODE	MA8068H
D508	8-719-017-67	DIODE	MA8068H
D509	8-719-017-94	DIODE	MA8180
D510	8-719-404-49	DIODE	MA111
D511	8-719-422-97	DIODE	MA8091-M
D512	8-719-977-12	DIODE	DTZ6.8B
D513	8-719-977-12	DIODE	DTZ6.8B
D514	8-719-977-12	DIODE	DTZ6.8B
D515	8-719-977-12	DIODE	DTZ6.8B
D516	8-719-404-49	DIODE	MA111
D517	8-719-977-12	DIODE	DTZ6.8B
D518	8-719-977-12	DIODE	DTZ6.8B

Ref. No.	Part No.	Description	Remark
D519	8-719-404-49	DIODE	MA111
D520	8-719-977-12	DIODE	DTZ6.8B
D521	8-719-104-34	DIODE	1S2836
D522	8-719-977-03	DIODE	DTZ5.6B
D523	8-719-977-03	DIODE	DTZ5.6B
D524	8-719-404-49	DIODE	MA111
D525	8-719-914-44	DIODE	DAP202K
D526	8-719-404-49	DIODE	MA111
D527	8-719-017-98	DIODE	MA8200-TX
D528	8-719-017-98	DIODE	MA8200-TX
D529	8-719-977-12	DIODE	DTZ6.8B
D530	8-719-404-49	DIODE	MA111
D531	8-719-423-23	DIODE	MA8110-M
D532	8-719-404-49	DIODE	MA111
D533	8-719-422-12	DIODE	MA8039
D534	8-719-422-12	DIODE	MA8039
D535	8-719-049-38	DIODE	1N5404TU
D536	8-719-422-76	DIODE	MA8075-M
D537	8-719-053-18	DIODE	1SR154-400TE-25
D538	8-719-053-18	DIODE	1SR154-400TE-25
D539	8-719-017-98	DIODE	MA8200-TX
D540	8-719-017-98	DIODE	MA8200-TX
D541	8-719-109-97	DIODE	RD6.8ES-B2
D542	8-719-109-97	DIODE	RD6.8ES-B2
D555	8-719-977-12	DIODE	DTZ6.8B
D601	8-719-977-03	DIODE	DTZ5.6B
D602	8-719-404-49	DIODE	MA111
D699	8-719-981-59	DIODE	FC805

< TUNER >

FE601	A-3282-012-A	TUNER UNIT	TUX-006(E)
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< FUSE >

F1	1-532-982-11	FUSE (BRADE TYPE) (AUTO FUSE)	(15A)
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< IC >

IC105	8-759-909-71	IC	BA4558F
IC106	8-759-909-71	IC	BA4558F
IC301	8-752-372-30	IC	CXD2710R
IC302	8-759-232-65	IC	TC74HC157AF
IC303	8-759-331-35	IC	AK5340-VS
IC304	8-759-932-64	IC	BU4052BF
IC305	8-759-909-71	IC	BA4558F
IC306	8-759-909-71	IC	BA4558F
IC308	8-759-710-55	IC	NJM2100M
IC309	8-759-369-41	IC	HA13155
IC310	8-759-234-20	IC	TC7S08F

Ref. No.	Part No.	Description	Remark
IC311	8-759-364-34	IC SM5877AM	
IC312	8-759-364-34	IC SM5877AM	
IC313	8-759-909-71	IC BA4558F	
IC314	8-759-909-71	IC BA4558F	
IC315	8-759-148-30	IC uPD6376GS	
IC316	8-752-067-30	IC CXA1846N	
IC317	8-752-067-30	IC CXA1846N	
IC318	8-759-909-71	IC BA4558F	
IC319	8-759-180-84	IC TC7W74F	
IC501	8-759-387-67	IC uPD78058GC-174-3B9	
IC502	8-759-347-49	IC BA3918-V2	
IC503	8-759-096-16	IC MM1175XF-T1	
IC504	8-759-167-83	IC PST600EMT-T1	
IC505	8-759-389-60	IC uPD78058GC-198-3B9	
IC506	8-759-353-44	IC ST24C08FM6TR	
IC601	8-759-381-32	IC MN1883220S4B1 (US, Canadian)	
IC601	8-759-380-00	IC MN1883220S4C (AEP, UK, G)	
IC602	8-759-823-81	IC LC7216M	
IC603	8-759-242-66	IC TC4W66F	
IC604	8-759-075-66	IC TA75S01F (AEP, UK, G)	
IC605	8-759-163-63	IC TDA7330BD-013TR (AEP, UK, G)	
IC606	8-759-344-91	IC RN5VD23AA-TL (US, Canadian)	
< JACK >			
J501	1-566-822-41	JACK (REMOTE IN)	
< CHIP CONDUCTOR >			
JR2	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR3	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR501	1-216-296-00	CONDUCTOR, CHIP (3216)	
< COIL >			
L300	1-410-997-31	INDUCTOR CHIP 2.2uH	
L301	1-410-513-11	INDUCTOR 22uH	
L302	1-410-513-11	INDUCTOR 22uH	
L303	1-414-146-31	INDUCTOR 2.2uH	
L304	1-414-146-31	INDUCTOR 2.2uH	
L305	1-410-513-11	INDUCTOR 22uH	
L306	1-410-513-11	INDUCTOR 22uH	
L307	1-410-513-11	INDUCTOR 22uH	
L308	1-410-513-11	INDUCTOR 22uH	
L309	1-410-513-11	INDUCTOR 22uH	
L310	1-410-513-11	INDUCTOR 22uH	
L311	1-410-513-11	INDUCTOR 22uH	
L312	1-410-513-11	INDUCTOR 22uH	
L501	1-411-670-11	COIL, CHOKE	
L502	1-410-513-11	INDUCTOR 22uH	
L503	1-410-513-11	INDUCTOR 22uH	

Ref. No.	Part No.	Description	Remark
L504	1-410-997-31	INDUCTOR CHIP 2.2uH	
L510	1-410-513-11	INDUCTOR 22uH	
L511	1-410-513-11	INDUCTOR 22uH	
L601	1-410-513-11	INDUCTOR 22uH	
L602	1-410-513-11	INDUCTOR 22uH	
L603	1-410-513-11	INDUCTOR 22uH (AEP, UK, G)	
< TRANSISTOR >			
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q103	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q203	8-729-920-21	TRANSISTOR DTC314TKH04	
Q501	8-729-429-92	TRANSISTOR XN1211	
Q502	8-729-020-67	TRANSISTOR XN1A312-TX	
Q503	8-729-422-29	TRANSISTOR 2SD601A-S	
Q504	8-729-424-12	TRANSISTOR UN2112	
Q505	8-729-024-31	TRANSISTOR XN1111-TX	
Q506	8-729-402-84	TRANSISTOR XN4601	
Q507	8-729-424-59	TRANSISTOR UN2212	
Q508	8-729-807-12	TRANSISTOR 2SD1802-S	
Q509	8-729-020-67	TRANSISTOR XN1A312-TX	
Q510	8-729-807-12	TRANSISTOR 2SD1802-S	
Q511	8-729-019-00	TRANSISTOR 2SD2394-G	
Q512	8-729-020-67	TRANSISTOR XN1A312-TX	
Q513	8-729-424-59	TRANSISTOR UN2212	
Q514	8-729-020-67	TRANSISTOR XN1A312-TX	
Q515	8-729-106-60	TRANSISTOR 2SB1115A	
Q516	8-729-019-00	TRANSISTOR 2SD2394-G	
Q517	8-729-020-67	TRANSISTOR XN1A312-TX	
Q518	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q519	8-729-421-22	TRANSISTOR UN2211	
Q520	8-729-106-60	TRANSISTOR 2SB1115A	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q603	8-729-424-08	TRANSISTOR UN2111	
Q604	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q605	8-729-424-59	TRANSISTOR UN2212	
Q606	8-729-920-21	TRANSISTOR DTC314TKH04	
Q607	8-729-920-21	TRANSISTOR DTC314TKH04	
Q610	8-729-020-67	TRANSISTOR XN1A312-TX	
< RESISTOR/FERRITE BEAD/CHIP CONDUCTOR >			
R100	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R101	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
R102	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R103	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R104	1-216-835-11	METAL CHIP 15K 5% 1/16W (US, Canadian)	

Ref. No.	Part No.	Description	Remark		
R104	1-216-839-11	METAL CHIP	33K	5%	1/16W (AEP, UK)
R104	1-216-841-11	METAL CHIP	47K	5%	1/16W (G)
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-841-11	METAL CHIP	47K	5%	1/16W
R107	1-216-049-00	METAL CHIP	1K	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/16W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/16W
R112	1-216-833-11	METAL CHIP	10K	5%	1/16W
R113	1-216-815-11	METAL CHIP	330	5%	1/16W
R114	1-216-815-11	METAL CHIP	330	5%	1/16W
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/16W
R122	1-216-833-11	METAL CHIP	10K	5%	1/16W
R123	1-216-864-11	METAL CHIP	0	5%	1/16W
R125	1-216-833-11	METAL CHIP	10K	5%	1/16W
R126	1-216-833-11	METAL CHIP	10K	5%	1/16W
R127	1-216-841-11	METAL CHIP	47K	5%	1/16W
R128	1-216-833-11	METAL CHIP	10K	5%	1/16W
R130	1-216-833-11	METAL CHIP	10K	5%	1/16W
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W
R132	1-216-839-11	METAL CHIP	33K	5%	1/16W
R133	1-216-041-00	METAL CHIP	470	5%	1/10W
R134	1-216-837-11	METAL CHIP	22K	5%	1/16W
R135	1-216-839-11	METAL CHIP	33K	5%	1/16W
R137	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R138	1-216-833-11	METAL CHIP	10K	5%	1/16W
R139	1-216-839-11	METAL CHIP	33K	5%	1/16W
R140	1-216-041-00	METAL CHIP	470	5%	1/10W
R141	1-216-837-11	METAL CHIP	22K	5%	1/16W
R142	1-216-839-11	METAL CHIP	33K	5%	1/16W
R144	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R145	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R146	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R147	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R148	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R149	1-216-837-11	METAL CHIP	22K	5%	1/16W
R151	1-216-841-11	METAL CHIP	47K	5%	1/16W
R152	1-216-841-11	METAL CHIP	47K	5%	1/16W
R153	1-216-845-11	METAL CHIP	100K	5%	1/16W
R154	1-216-073-00	METAL CHIP	10K	5%	1/10W
R155	1-216-105-00	METAL CHIP	220K	5%	1/10W
R156	1-216-041-00	METAL CHIP	470	5%	1/10W
R157	1-216-081-00	METAL CHIP	22K	5%	1/10W
R158	1-216-841-11	METAL CHIP	47K	5%	1/16W
R159	1-216-833-11	METAL CHIP	10K	5%	1/16W
R160	1-216-833-11	METAL CHIP	10K	5%	1/16W
R161	1-216-833-11	METAL CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R162	1-216-833-11	METAL CHIP	10K	5%	1/16W
R163	1-216-864-11	METAL CHIP	0	5%	1/16W
R164	1-216-833-11	METAL CHIP	10K	5%	1/16W
R165	1-216-833-11	METAL CHIP	10K	5%	1/16W
R200	1-216-073-00	METAL CHIP	10K	5%	1/10W
R201	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R202	1-216-081-00	METAL CHIP	22K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/16W
R204	1-216-835-11	METAL CHIP	15K	5%	1/16W (US, Canadian)
R204	1-216-839-11	METAL CHIP	33K	5%	1/16W (AEP, UK)
R204	1-216-841-11	METAL CHIP	47K	5%	1/16W (G)
R205	1-216-073-00	METAL CHIP	10K	5%	1/10W
R206	1-216-089-00	METAL CHIP	47K	5%	1/10W
R207	1-216-049-00	METAL CHIP	1K	5%	1/10W
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/16W
R210	1-216-073-00	METAL CHIP	10K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/16W
R212	1-216-833-11	METAL CHIP	10K	5%	1/16W
R213	1-216-815-11	METAL CHIP	330	5%	1/16W
R214	1-216-815-11	METAL CHIP	330	5%	1/16W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R221	1-216-833-11	METAL CHIP	10K	5%	1/16W
R222	1-216-833-11	METAL CHIP	10K	5%	1/16W
R223	1-216-864-11	METAL CHIP	0	5%	1/16W
R225	1-216-833-11	METAL CHIP	10K	5%	1/16W
R226	1-216-833-11	METAL CHIP	10K	5%	1/16W
R227	1-216-841-11	METAL CHIP	47K	5%	1/16W
R228	1-216-833-11	METAL CHIP	10K	5%	1/16W
R230	1-216-833-11	METAL CHIP	10K	5%	1/16W
R231	1-216-833-11	METAL CHIP	10K	5%	1/16W
R232	1-216-839-11	METAL CHIP	33K	5%	1/16W
R233	1-216-041-00	METAL CHIP	470	5%	1/10W
R234	1-216-837-11	METAL CHIP	22K	5%	1/16W
R235	1-216-839-11	METAL CHIP	33K	5%	1/16W
R237	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R238	1-216-833-11	METAL CHIP	10K	5%	1/16W
R239	1-216-839-11	METAL CHIP	33K	5%	1/16W
R240	1-216-041-00	METAL CHIP	470	5%	1/10W
R241	1-216-837-11	METAL CHIP	22K	5%	1/16W
R242	1-216-839-11	METAL CHIP	33K	5%	1/16W
R244	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R245	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R246	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R247	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R248	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R249	1-216-837-11	METAL CHIP	22K	5%	1/16W
R251	1-216-841-11	METAL CHIP	47K	5%	1/16W

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description	Remark
R252	1-216-841-11	METAL CHIP	47K 5% 1/16W
R253	1-216-845-11	METAL CHIP	100K 5% 1/16W
R254	1-216-073-00	METAL CHIP	10K 5% 1/10W
R255	1-216-105-00	METAL CHIP	220K 5% 1/10W
R256	1-216-041-00	METAL CHIP	470 5% 1/10W
R257	1-216-081-00	METAL CHIP	22K 5% 1/10W
R258	1-216-841-11	METAL CHIP	47K 5% 1/16W
R263	1-216-864-11	METAL CHIP	0 5% 1/16W
R264	1-216-833-11	METAL CHIP	10K 5% 1/16W
R265	1-216-833-11	METAL CHIP	10K 5% 1/16W
R300	1-414-385-11	INDUCTOR, FERRITE BEAD	1K
R301	1-216-809-11	METAL CHIP	100 5% 1/16W
R302	1-216-809-11	METAL CHIP	100 5% 1/16W
R303	1-216-045-00	METAL CHIP	680 5% 1/10W
R304	1-216-095-00	METAL CHIP	82K 5% 1/10W
R305	1-216-037-00	METAL CHIP	330 5% 1/10W
R306	1-414-385-11	INDUCTOR, FERRITE BEAD	1K
R307	1-414-385-11	INDUCTOR, FERRITE BEAD	1K
R308	1-216-009-00	METAL CHIP	22 5% 1/10W
R309	1-216-809-11	METAL CHIP	100 5% 1/16W
R310	1-216-025-00	METAL CHIP	100 5% 1/10W
R311	1-216-809-11	METAL CHIP	100 5% 1/16W
R312	1-216-009-00	METAL CHIP	22 5% 1/10W
R313	1-216-295-00	CONDUCTOR, CHIP	(2012)
R314	1-216-009-00	METAL CHIP	22 5% 1/10W
R315	1-216-809-11	METAL CHIP	100 5% 1/16W
R316	1-216-025-00	METAL CHIP	100 5% 1/10W
R317	1-216-809-11	METAL CHIP	100 5% 1/16W
R318	1-216-009-00	METAL CHIP	22 5% 1/10W
R320	1-216-081-00	METAL CHIP	22K 5% 1/10W
R321	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R322	1-216-801-11	METAL CHIP	22 5% 1/16W
R323	1-216-809-11	METAL CHIP	100 5% 1/16W
R324	1-216-025-00	METAL CHIP	100 5% 1/10W
R325	1-216-809-11	METAL CHIP	100 5% 1/16W
R326	1-216-845-11	METAL CHIP	100K 5% 1/16W
R327	1-216-845-11	METAL CHIP	100K 5% 1/16W
R328	1-414-385-11	INDUCTOR, FERRITE BEAD	1K
R331	1-216-097-00	METAL CHIP	100K 5% 1/10W
R332	1-216-097-00	METAL CHIP	100K 5% 1/10W
R500	1-216-017-00	METAL CHIP	47 5% 1/10W
R501	1-216-097-00	METAL CHIP	100K 5% 1/10W
R502	1-216-073-00	METAL CHIP	10K 5% 1/10W
R503	1-216-841-11	METAL CHIP	47K 5% 1/16W
R504	1-216-073-00	METAL CHIP	10K 5% 1/10W
R505	1-216-837-11	METAL CHIP	22K 5% 1/16W
R506	1-216-833-11	METAL CHIP	10K 5% 1/16W
R507	1-216-837-11	METAL CHIP	22K 5% 1/16W

Ref. No.	Part No.	Description	Remark
R508	1-216-833-11	METAL CHIP	10K 5% 1/16W
R509	1-216-049-00	METAL CHIP	1K 5% 1/10W
R510	1-216-025-00	METAL CHIP	100 5% 1/10W
R511	1-216-025-00	METAL CHIP	100 5% 1/10W
R512	1-216-089-00	METAL CHIP	47K 5% 1/10W
R513	1-216-049-00	METAL CHIP	1K 5% 1/10W
R514	1-208-462-41	METAL CHIP	10K 2% 1/10W
R515	1-208-462-41	METAL CHIP	10K 2% 1/10W
R516	1-216-097-00	METAL CHIP	100K 5% 1/10W
R517	1-216-025-00	METAL CHIP	100 5% 1/10W
R519	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R520	1-216-049-00	METAL CHIP	1K 5% 1/10W
R521	1-216-049-00	METAL CHIP	1K 5% 1/10W
R522	1-216-025-00	METAL CHIP	100 5% 1/10W
R523	1-216-025-00	METAL CHIP	100 5% 1/10W
R524	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R525	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R526	1-216-833-11	METAL CHIP	10K 5% 1/16W
R527	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R528	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R529	1-216-113-00	METAL CHIP	470K 5% 1/10W
R530	1-208-462-41	METAL CHIP	10K 2% 1/10W
R531	1-208-462-41	METAL CHIP	10K 2% 1/10W
R532	1-216-809-11	METAL CHIP	100 5% 1/16W
R533	1-216-809-11	METAL CHIP	100 5% 1/16W
R534	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R535	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R536	1-216-295-00	CONDUCTOR, CHIP	(2012) (US, Canadian)
R537	1-216-105-00	METAL CHIP	220K 5% 1/10W (AEP, UK, G)
R538	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R539	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R540	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R542	1-216-109-00	METAL CHIP	330K 5% 1/10W
R543	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R544	1-216-097-00	METAL CHIP	100K 5% 1/10W
R547	1-216-105-00	METAL CHIP	220K 5% 1/10W (US, Canadian)
R548	1-216-105-00	METAL CHIP	220K 5% 1/10W
R549	1-216-295-00	CONDUCTOR, CHIP	(2012)
R550	1-216-864-11	METAL CHIP	0 5% 1/16W (AEP, UK, G)
R551	1-216-097-00	METAL CHIP	100K 5% 1/10W
R552	1-216-105-00	METAL CHIP	220K 5% 1/10W
R553	1-216-849-11	METAL CHIP	220K 5% 1/16W
R554	1-216-845-11	METAL CHIP	100K 5% 1/16W
R555	1-216-833-11	METAL CHIP	10K 5% 1/16W
R556	1-216-841-11	METAL CHIP	47K 5% 1/16W
R557	1-216-841-11	METAL CHIP	47K 5% 1/16W
R558	1-216-837-11	METAL CHIP	22K 5% 1/16W
R560	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R561	1-216-845-11	METAL CHIP	100K 5% 1/16W

Ref. No.	Part No.	Description	Remark		
R562	1-216-845-11	METAL CHIP	100K	5%	1/16W
R563	1-216-845-11	METAL CHIP	100K	5%	1/16W
R564	1-216-049-00	METAL CHIP	1K	5%	1/10W
R565	1-216-049-00	METAL CHIP	1K	5%	1/10W
R566	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R567	1-216-833-11	METAL CHIP	10K	5%	1/16W
R568	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R570	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R571	1-216-809-11	METAL CHIP	100	5%	1/16W
R599	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R601	1-216-815-11	METAL CHIP	330	5%	1/16W
R602	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R603	1-216-073-00	METAL CHIP	10K	5%	1/10W
R604	1-216-821-11	METAL CHIP	1K	5%	1/16W
R605	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R606	1-216-834-11	METAL CHIP	12K	5%	1/16W
R607	1-216-821-11	METAL CHIP	1K	5%	1/16W
R608	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W
R610	1-216-037-00	METAL CHIP	330	5%	1/10W
R611	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R612	1-216-841-11	METAL CHIP	47K	5%	1/16W
R613	1-216-089-00	METAL CHIP	47K	5%	1/10W
R614	1-216-097-00	METAL CHIP	100K	5%	1/10W
R615	1-216-833-11	METAL CHIP	10K	5%	1/16W
R616	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R617	1-216-089-00	METAL CHIP	47K	5%	1/10W
R618	1-216-821-11	METAL CHIP	1K	5%	1/16W (US, Canadian)
R618	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP, UK)
R618	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (G)
R619	1-216-089-00	METAL CHIP	47K	5%	1/10W (AEP, UK, G)
R620	1-216-089-00	METAL CHIP	47K	5%	1/10W (EXCEPT G)
R621	1-216-105-00	METAL CHIP	220K	5%	1/10W (G)
R622	1-216-105-00	METAL CHIP	220K	5%	1/10W (US, Canadian)
R623	1-216-821-11	METAL CHIP	1K	5%	1/16W (US, Canadian)
R623	1-216-849-11	METAL CHIP	220K	5%	1/16W (AEP, UK, G)
R624	1-216-839-11	METAL CHIP	33K	5%	1/16W (AEP, UK, G)
R626	1-216-089-00	METAL CHIP	47K	5%	1/10W
R627	1-216-295-00	CONDUCTOR, CHIP	(2012)	(US, Canadian)	
R628	1-216-097-00	METAL CHIP	100K	5%	1/10W
R629	1-216-073-00	METAL CHIP	10K	5%	1/10W
R630	1-216-097-00	METAL CHIP	100K	5%	1/10W
R631	1-216-841-11	METAL CHIP	47K	5%	1/16W
R632	1-216-097-00	METAL CHIP	100K	5%	1/10W
R633	1-216-837-11	METAL CHIP	22K	5%	1/16W (US, Canadian)
R633	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP, UK, G)
R635	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP, UK, G)
R636	1-216-129-00	METAL CHIP	2.2M	5%	1/10W (AEP, UK, G)

Ref. No.	Part No.	Description	Remark		
R637	1-216-842-11	METAL CHIP	56K	5%	1/16W
R638	1-216-839-11	METAL CHIP	33K	5%	1/16W
R639	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP, UK, G)
R640	1-216-853-11	METAL CHIP	470K	5%	1/16W (US, Canadian)
< VARIABLE RESISTOR >					
RV601	1-238-716-11	RES. ADJ. METAL GLAZE	100K	(AEP, UK, G)	
< SWITCH >					
S502	1-571-532-21	SWITCH, TACTIL (RESET)			
S503	1-571-478-11	SWITCH, SLIDE (POWER SELECT)			
< VIBRATOR >					
X301	1-579-280-31	VIBRATOR, CRYSTAL	(16MHz)		
X501	1-760-489-11	VIBRATOR, CERAMIC	(5MHz)		
X502	1-579-886-21	VIBRATOR, CRYSTAL	(32kHz)		
X503	1-760-489-11	VIBRATOR, CERAMIC	(5MHz)		
X601	1-579-952-21	VIBRATOR, CERAMIC	(8MHz)		
X602	1-577-126-51	VIBRATOR, CRYSTAL	(7.2MHz)		
X603	1-579-900-21	VIBRATOR, CRYSTAL	(4.3MHz)	(AEP, UK, G)	

*	A-3309-021-A	SERVO BOARD, COMPLETE			

< CAPACITOR >					
C1	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C4	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C5	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C6	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C7	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C9	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C10	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C11	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C12	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C13	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C14	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C15	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C16	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C17	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C18	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C19	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C20	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C21	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C22	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C23	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V

SERVO

Ref.No.	Part No.	Description	Remark
C24	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C25	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
C26	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C27	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C28	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V
C29	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C30	1-126-603-11	ELECT CHIP 4.7uF	20% 35V
C31	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C32	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V
C33	1-124-779-00	ELECT CHIP 10uF	20% 16V
C34	1-109-982-11	CERAMIC CHIP 1uF	10% 10V
C35	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C36	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C37	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C38	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C39	1-126-204-11	ELECT CHIP 47uF	20% 16V
C40	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR(PC BOARD)30P	
CN2	1-565-728-11	CONNECTOR, FPC 17P	
CN3	1-770-347-21	CONNECTOR, FPC 6P	
< IC >			
IC1	8-752-372-94	IC CXD2507AQ	
IC2	8-752-069-56	IC CXA1782BQ	
IC3	8-759-354-16	IC BA6796FP-T1	
< CHIP CONDUCTOR >			
JR1	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR2	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR3	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR4	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR5	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR6	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR7	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR8	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR9	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR10	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR11	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR12	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR13	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR14	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR15	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR16	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR17	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR18	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR19	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR20	1-216-296-00	CONDUCTOR, CHIP (3216)	

Ref.No.	Part No.	Description	Remark
JR21	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR22	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR23	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR24	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR25	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR26	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR27	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR28	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR29	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR30	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR31	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR32	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR33	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR34	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR35	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR36	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR37	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR38	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR39	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR40	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR41	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR42	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR43	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR44	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR45	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR46	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR47	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR48	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR49	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR50	1-216-296-00	CONDUCTOR, CHIP (3216)	
< COIL >			
L1	1-412-058-11	INDUCTOR CHIP 10uH	
L2	1-412-058-11	INDUCTOR CHIP 10uH	
L3	1-412-058-11	INDUCTOR CHIP 10uH	
< TRANSISTOR >			
Q1	8-729-904-60	TRANSISTOR DTB113ZK-T-146	
Q2	8-729-904-86	TRANSISTOR 2SB1197K-T-146-Q	
< RESISTOR/CHIP CONDUCTOR >			
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R3	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R4	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R5	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R6	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R7	1-216-009-00	METAL CHIP 22 5% 1/10W	
R8	1-216-119-00	METAL CHIP 820K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R9	1-216-119-00	METAL CHIP	820K 5% 1/10W
R10	1-216-073-00	METAL CHIP	10K 5% 1/10W
R11	1-216-073-00	METAL CHIP	10K 5% 1/10W
R14	1-216-085-00	METAL CHIP	33K 5% 1/10W
R15	1-216-085-00	METAL CHIP	33K 5% 1/10W
R16	1-216-077-00	METAL CHIP	15K 5% 1/10W
R17	1-216-081-00	METAL CHIP	22K 5% 1/10W
R19	1-216-079-00	METAL CHIP	18K 5% 1/10W
R20	1-216-105-00	METAL CHIP	220K 5% 1/10W
R21	1-216-105-00	METAL CHIP	220K 5% 1/10W
R22	1-216-085-00	METAL CHIP	33K 5% 1/10W
R23	1-216-121-00	METAL CHIP	1M 5% 1/10W
R24	1-216-073-00	METAL CHIP	10K 5% 1/10W
R27	1-216-295-00	CONDUCTOR, CHIP	(2012)
R28	1-216-101-00	METAL CHIP	150K 5% 1/10W
R29	1-216-097-00	METAL CHIP	100K 5% 1/10W
R30	1-216-097-00	METAL CHIP	100K 5% 1/10W
R31	1-216-081-00	METAL CHIP	22K 5% 1/10W
R32	1-216-109-00	METAL CHIP	330K 5% 1/10W
R33	1-216-105-00	METAL CHIP	220K 5% 1/10W
R34	1-216-009-00	METAL CHIP	22 5% 1/10W
R35	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R36	1-216-097-00	METAL CHIP	100K 5% 1/10W
R37	1-216-117-00	METAL CHIP	680K 5% 1/10W
R38	1-216-109-00	METAL CHIP	330K 5% 1/10W
R39	1-216-101-00	METAL CHIP	150K 5% 1/10W
R40	1-216-114-00	METAL CHIP	510K 5% 1/10W
R41	1-216-091-00	METAL CHIP	56K 5% 1/10W
R42	1-216-107-00	METAL CHIP	270K 5% 1/10W
R43	1-216-097-00	METAL CHIP	100K 5% 1/10W
R44	1-216-085-00	METAL CHIP	33K 5% 1/10W
R45	1-216-081-00	METAL CHIP	22K 5% 1/10W
R46	1-216-097-00	METAL CHIP	100K 5% 1/10W
R47	1-216-105-00	METAL CHIP	220K 5% 1/10W
R48	1-216-073-00	METAL CHIP	10K 5% 1/10W
R49	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R50	1-216-065-00	METAL CHIP	4. 7K 5% 1/10W
R51	1-216-295-00	CONDUCTOR, CHIP	(2012)

< VARIABLE RESISTOR >

RV1	1-238-091-11	RES, ADJ, CERMET	22K
RV4	1-238-091-11	RES, ADJ, CERMET	22K

Ref. No.	Part No.	Description	Remark
*	1-659-834-11	SUB BOARD	*****
		< CONNECTOR >	
CN1	1-770-347-21	CONNECTOR, FPC 6P	*****
		MISCELLANEOUS	*****
12	1-776-207-11	CORD (WITH CONNECTOR) (POWER) (G)	
12	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	(US, Canadian)
12	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP, UK)
14	1-751-000-51	CORD (WITH CONNECTOR) (LINE OUT)	
205	1-659-880-11	MOTOR FLEXIBLE BOARD	
208	8-848-402-02	OPTICAL PICK-UP KSS-520A	
209	1-659-881-11	PICK-UP FLEXIBLE BOARD	
F1	1-532-982-11	FUSE (BRADE TYPE) (AUTO FUSE) (15A)	
M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
M902	A-3291-574-A	MOTOR ASSY, SLED	
M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	*****

***** HARDWARE LIST *****

#1	7-621-773-95	SCREW +PTT 2. 6X6 (S)
#2	7-621-772-10	SCREW +B 2X4
#3	7-621-773-86	SCREW +PTT 2. 6X4 (S)
#4	7-621-255-25	SCREW +P 2X4
#5	7-621-770-XX	SCREW +PTT 2. 6X8 (S)
#6	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#7	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3
#8	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3
#9	7-627-000-00	SCREW, PRECISION +P 1. 7X2. 2 TYPE 3
#10	7-627-850-28	SCREW, PRECISION +P 1. 4X3
#11	7-685-791-01	SCREW +P 2. 6X5 (S)

ACCESSORIES & PACKING MATERIALS *****

1-473-067-31	REMOTE COMMANDER (RM-X2S)
3-856-118-11	MANUAL, INSTRUCTION
	(ENGLISH, FRENCH, GERMAN, ITALIAN)
	(AEP, UK, G)
3-856-118-21	MANUAL, INSTRUCTION
	(DUTCH, SWEDISH, SPANISH, PORTUGUESE)
	(AEP, UK)

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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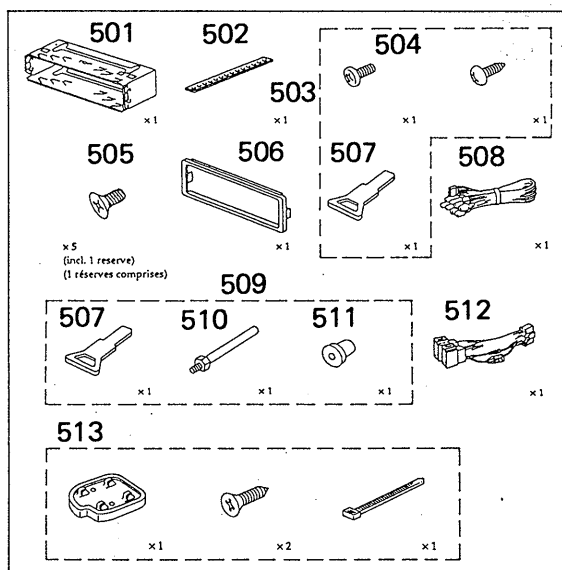
SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description	Remark
	3-856-118-31	MANUAL, INSTRUCTION (DANISH, FINNISH)	(AEP, UK)
	3-856-118-41	MANUAL, INSTRUCTION (ENGLISH)	(US, Canadian)
	3-856-118-51	MANUAL, INSTRUCTION (FRENCH)	(Canadian)
	3-856-119-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN)	(AEP, UK, G)
	3-856-119-21	MANUAL, INSTRUCTION, INSTALL (DUTCH, SWEDISH, SPANISH, PORTUGUESE)	(AEP, UK)
	3-856-119-31	MANUAL, INSTRUCTION, INSTALL (DANISH, FINNISH)	(AEP, UK)
	3-856-119-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH)	(US, Canadian)

X-3369-665-1 CASE ASSY (for FRONT PANEL)

MOUNTING HARDWARE

* 501	3-916-161-01	FRAME, FITTING	
502	3-914-406-01	SUPPORT (ND), FITTING	
503	X-3370-076-1	SCREW ASSY (U. KEY), FITTING	(US, Canadian)
504	7-682-560-04	SCREW +P4X6 (US, Canadian)	
505	X-3371-913-1	SCREW ASSY (J) (US, Canadian)	
506	3-932-910-01	COLLAR	
507	3-388-078-01	KEY	
508	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	(US, Canadian)
509	X-3370-077-1	SCREW ASSY (AE. KEY), FITTING	(AEP, UK, G)
510	3-386-828-01	SCREW, FITTING (AEP, UK, G)	
511	3-349-410-01	BUSHING (AEP, UK, G)	
512	1-776-527-11	CORD (WITH CONNECTOR) (POWER) (ISO)	(AEP, UK, G)
513	X-3368-817-1	BRACKET ASSY (for RM-X2S)	



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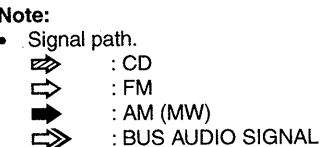
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AEP Model
UK Model*

SUPPLEMENT-1

File this supplement with the Service Manual.

BLOCK DIAGRAM



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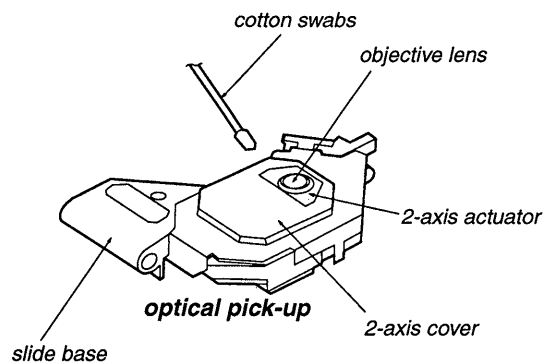
US Model
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SUPPLEMENT-2

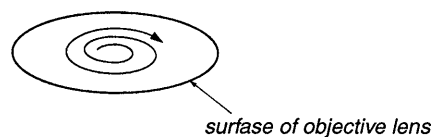
File this supplement with the service manual.

Subject : Notes on Cleaning The Objective Lens

NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below. Replace the cotton swab and repeat this cleaning two or three times.



Notes:

Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.

Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

CDX-C810DSP

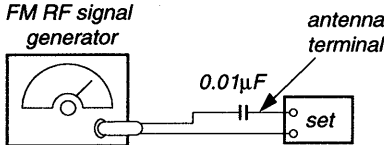
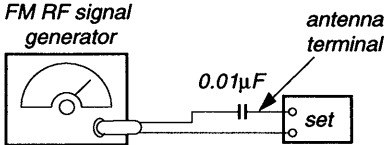
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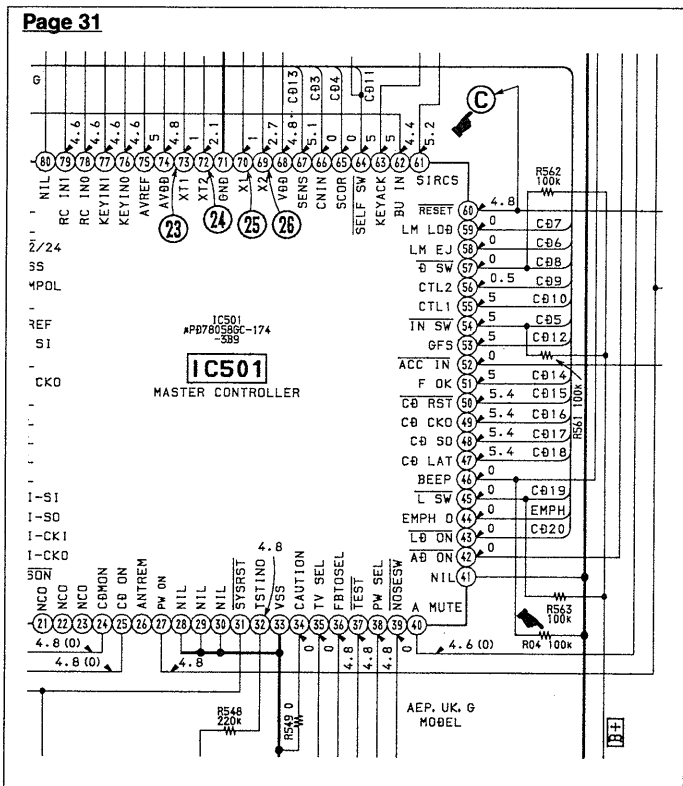
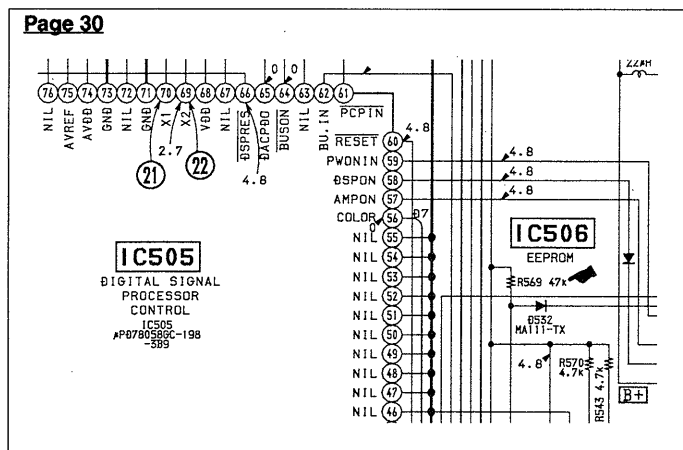
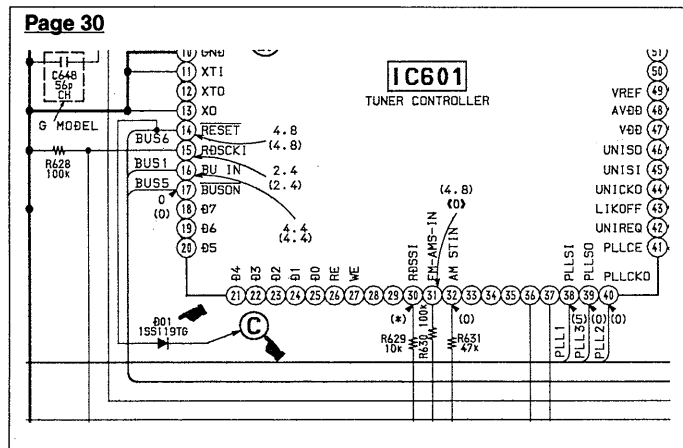
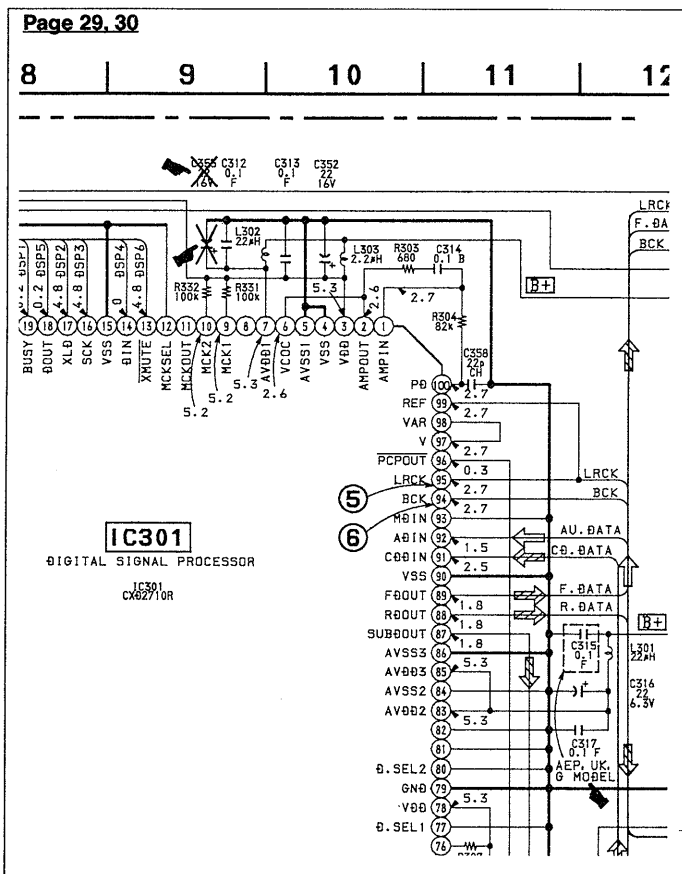
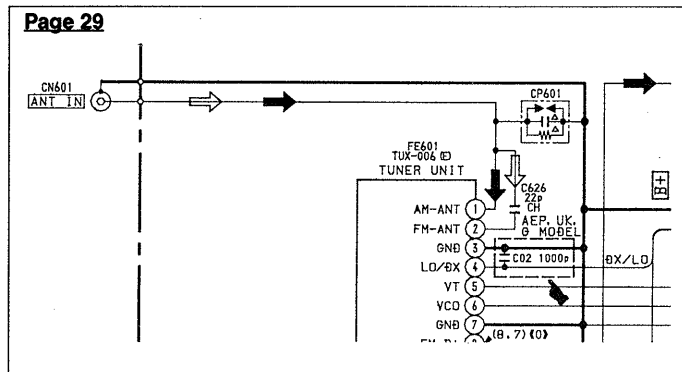
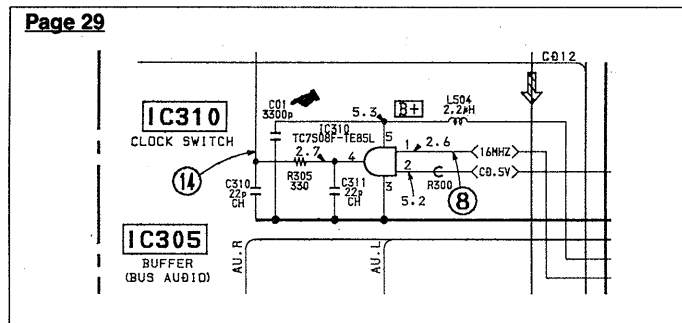
US Model
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UK Model

CORRECTION-1

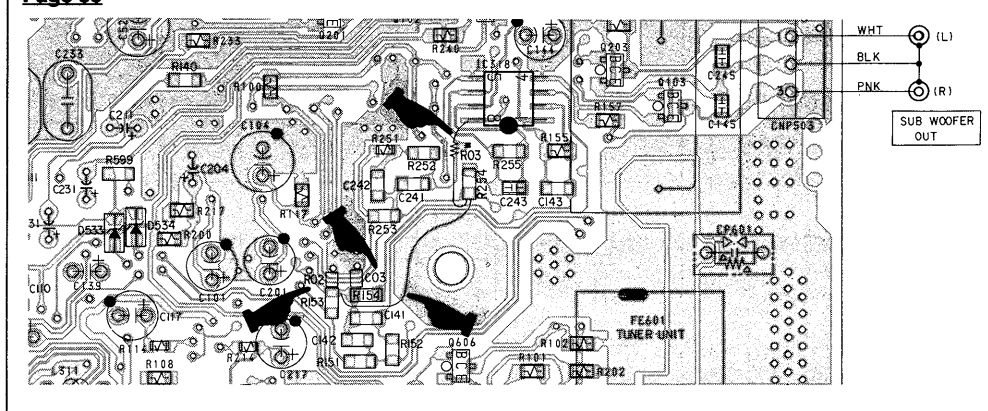
Correct your service manual as shown below.

___ (Under line) : indicates corrected portion.

Page	Incorrect	Correct
11	SECTION 4 ELECTRICAL ADJUSTMENTS	SECTION 4 ELECTRICAL ADJUSTMENTS
	TUNER SECTION 0dB=1μV	TUNER SECTION 0dB=1μV
	Cautions during repair When the front end is defective, replace it by a new one because its internal block is difficult to repair.	NOTE: The adjustment should be done in the order of FM Auto Scan/Stop Level Adjustment, FM Stereo Separation Adjustment, FM Noise Focus Adjustment and AM (MW) Auto Scan/Stop Level Adjustment. Cautions during repair When the front end is defective, replace it by a new one because its internal block is difficult to repair.
	FM Auto Scan/Stop Level Adjustment Setting: SOURCE button: FM  Carrier frequency : 97.9MHz (US, Canadian model) 98.0MHz (AEP, UK, German model) Output level : 22dB (12.6 μ V) Mode : mono Modulation : 1kHz, 75kHz deviation	FM Auto Scan/Stop Level Adjustment Setting: SOURCE button: FM  Carrier frequency : 97.9MHz (US, Canadian model) 98.0MHz (AEP, UK, German model) Output level : 22dB (12.6 μ V) Mode : mono Modulation : 1kHz, <u>22.5kHz</u> deviation



Page 35



____ (Under line) : indicates corrected portion.

Page	Incorrect						Correct					
	Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description		Remark	
54	*	3-917-877-01	CASE, SHIELD									
							C01	1-162-303-11	CERAMIC	0.0033uF	30%	16V
							C02	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
											(AEP, UK, G)	
							C03	1-164-506-11	CERAMIC CHIP	4.7uF		50V
55	C315	1-163-028-00	CERAMIC CHIP	0.1uF	25V		C315	1-163-028-00	CERAMIC CHIP	0.1uF	25V	(AEP, UK, G)
56	C355	1-124-234-00	ELECT	22uF	20% 16V							
57							D01	8-719-911-19	DIODE	1SS119-25		
58							R01	1-216-073-00	METAL CHIP	10K	5%	1/10W
							R02	1-216-222-00	METAL CHIP	10K	5%	1/8W
							R03	1-247-855-11	CARBON	10K	5%	1/4W
							R04	1-247-879-11	CARBON	100K	5%	1/4W
60							R569	1-216-089-00	METAL CHIP	47K	5%	1/10W
64	* 501	3-916-161-01	FRAME, FITTING				* 501	3-916-161-32	FRAME, FITTING			
	513	X-3368-817-1	BRACKET ASSY (for RM-X2S)				513	X-3369-817-1	BRACKET ASSY (for RM-X2S)			

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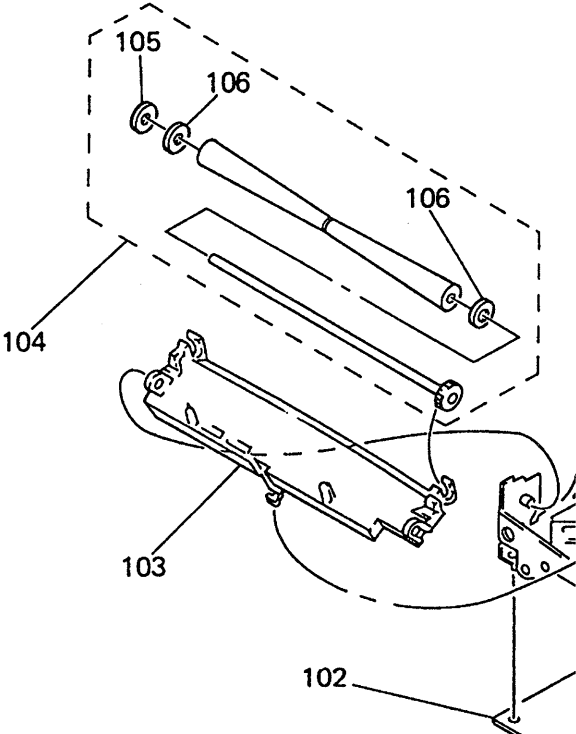
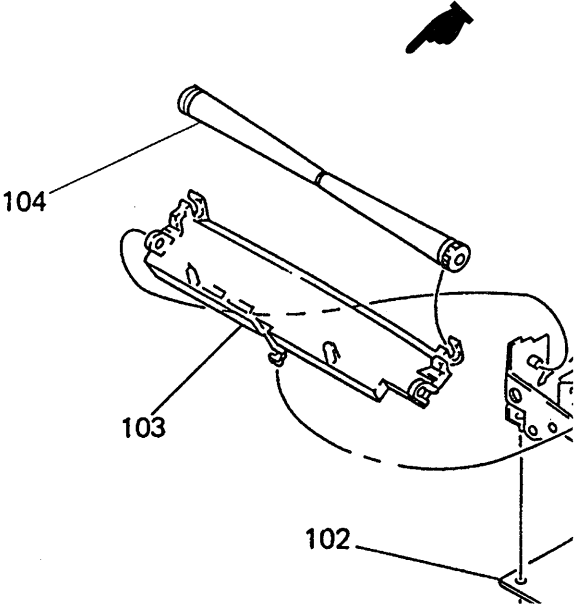
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CORRECTION-2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT		
50	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
	105	3-701-439-11	WASHER			
	*106	3-322-413-01	SPACER, INSULATING			
						

(SPM-96051)