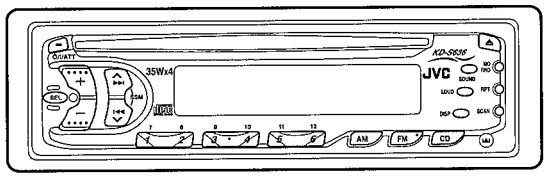
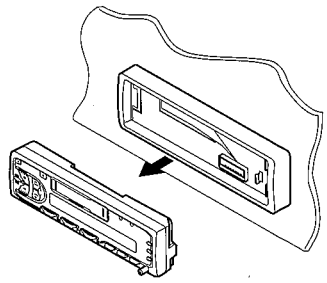
JVC

SERVICE MANUAL

CD RECEIVER

KD-S636





Area Suffix

E ··· Continental Eurrope

COMPACT disc DIGITAL AUDIO

Contents

No.49464
JAN. 1998

Safety Precaution

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs when preforming repairs of this system.**

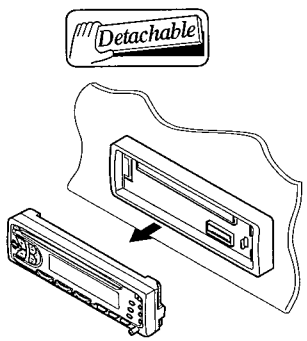
⚠ ***CAUTION*** **Please use enough caution to avoid direct exposure to the beam or touch it in case of an adjustment or operation check.**

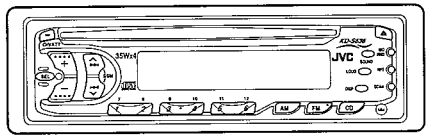
JVC

ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS

CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

KD-S636





COMPACT disc DIGITAL AUDIO

For installation and connections, refer to the separate manual.
Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.
Pour l'installation et les raccordements, se référer au manuel séparé.
Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

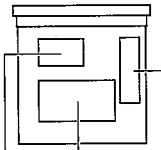
INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

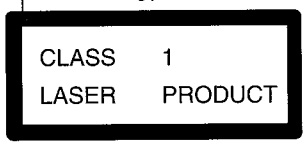
FSUN3039-311S
[E]

Position and Reproduction of Labels

Bottom of the main unit



Name/Rating plate



Caution:
This product contains a laser component of higher laser class than Class 1.

IMPORTANT FOR LASER PRODUCTS

Precautions:

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation, however, is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

BEFORE USE

** For safety....*

- *Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.*
- *Stop the car before performing any complicated operations.*

**Temperature inside the car....*

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

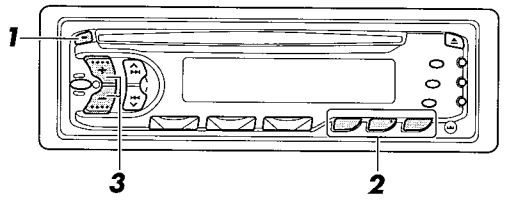
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

CONTENTS

ENGLISH

Note:
For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

BASIC OPERATIONS



Note:
When you use this unit for the first time, set the built-in clock correctly, see page 16.

1

Turn on the power.

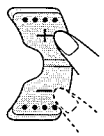
Note on One-Touch Operation:
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2

Select the source.

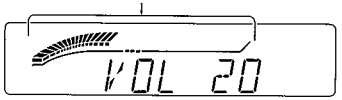
To operate the tuner, see pages 5 – 9.
To operate the CD player, see pages 10 – 12.

3



Adjust the volume.

Volume level indicator



Volume level appears.

4

Adjust the sound as you want (see pages 13 – 15).

To drop the volume in a moment

Press ⏻/I/ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.

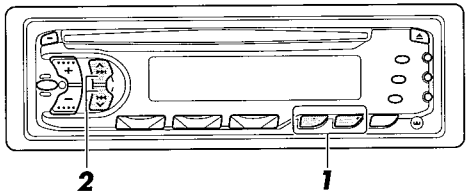
To turn off the power

Press ⏻/I/ATT for more than 1 second.

RADIO OPERATIONS

ENGLISH

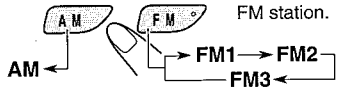
Listening to the radio

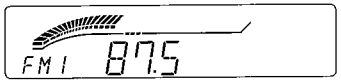


1

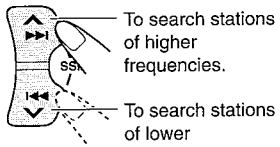
Select the band (FM1, FM2, FM3 or AM).

You can select any one of FM1, FM2, and FM3 to listen to an FM station.





2

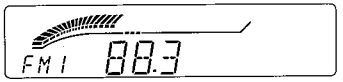


To search stations of higher frequencies.

To search stations of lower frequencies.

Start searching a station.

When a station is received, searching stops.



To stop searching before a station is received, press the same button you have pressed for searching.

To tune in a particular frequency without searching:

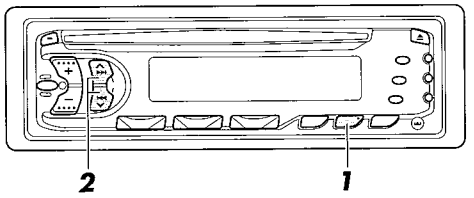
1 Press FM or AM to select the band.
2 Press and hold SSM ▶▶| ∧ or SSM |◀◀ ∨ until "M" starts flashing on the display.
Now you can manually change the frequency while "M" is flashing.
3 Press SSM ▶▶| ∧ or SSM |◀◀ ∨ repeatedly until the frequency you want is reached.
• If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM — MW/LW) until you release the button.

Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.
• Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
• Manual preset of both FM and AM stations

FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2, and FM3).

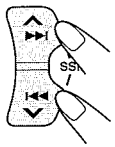


1

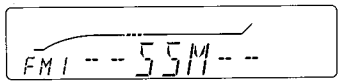
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.

→ FM1 → FM2 → FM3

2



Press and hold the both buttons for more than 3 seconds.



"SSM" appears, then disappears when automatic preset is over.

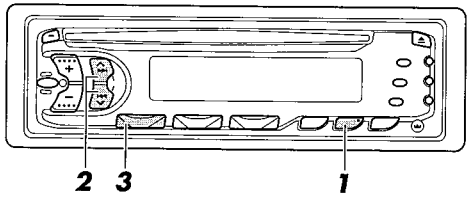
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency).
When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

ENGLISH

Manual preset

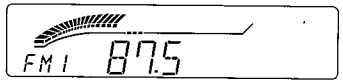
You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

EXAMPLE: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band

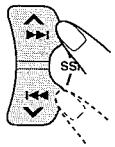


1

Select the FM1 band.

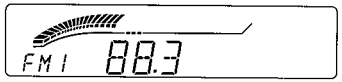


2

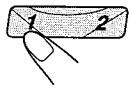


Tune into a station of 88.3 MHz.

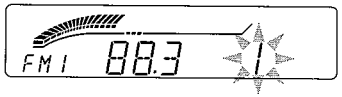
See page 5 to tune into a station.



3



Press and hold the button for more than 1 second.



Preset number "1" starts flashing for a while.

4

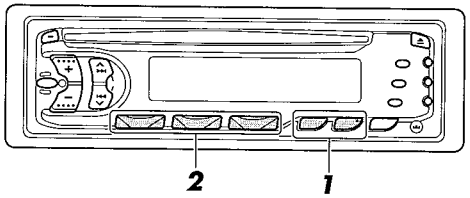
Repeat the above procedure to store other stations into other preset numbers.

Notes:

- *A previously preset station is erased when a new station is stored in the same preset number.*
- *Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.*

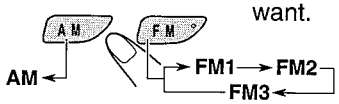
Tuning into a preset station

You can easily tune into a preset station.
Remember that you must store stations first. If you have not stored them yet, see pages 6 and 7.

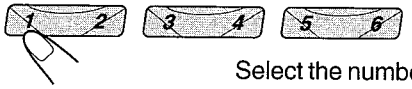


1

Select the band (FM1, FM2, FM3 or AM) you want.

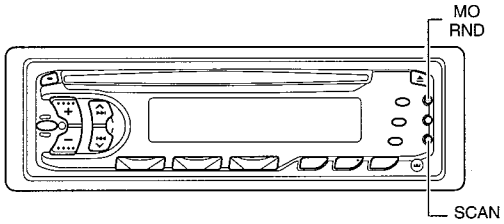


2



Select the number (1 – 6) for the preset station you want.

Other convenient tuner functions



Scanning broadcast stations

When you press SCAN while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds (tuned frequency number flashes on the display), and you can check what program is now being broadcast.

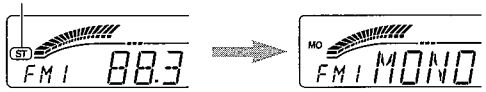
If you want to listen to that program, press the same button again to stop scanning.

Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

Press MO RND (mono/random) while listening to an FM stereo broadcast. The sound you hear becomes monaural but reception will be improved.

Lights when receiving an FM broadcast in stereo.

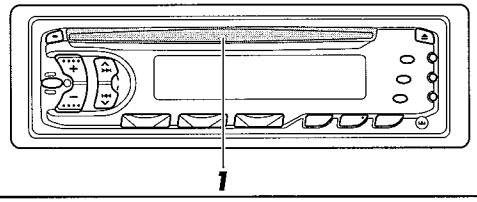


To restore the stereo effect, press the same button again.

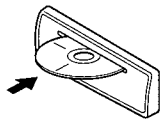
ENGLISH

CD OPERATIONS

Playing a CD



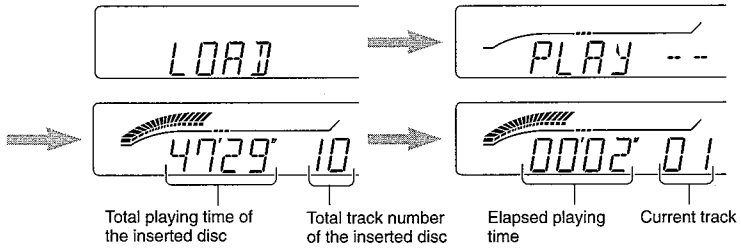
1



Insert a disc into the loading slot.

The unit turns on, draws a CD and starts playback automatically.

- When a CD is inserted upside down, "EJECT" appears on the display and the CD automatically ejects.



Note on One-Touch Operation:
When a CD is already in the loading slot, pressing CD turns on the unit and starts playback automatically.

CAUTION on Volume Setting
CDs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a CD and adjust it as required during playback.

To stop play and eject the CD

Press ⏏.

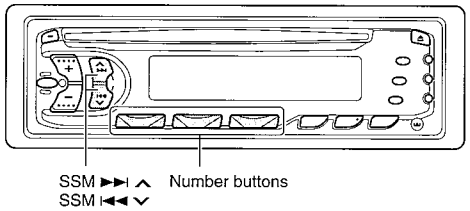
CD play stops and the CD automatically ejects from the loading slot. The source changes to the tuner (you will hear the last received station).

If you change the source to AM or FM, the CD play also stops (without ejecting the CD this time).

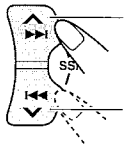
- *If the ejected disc is not removed for about 15 seconds , the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)*
- *You can eject the CD even when the unit is turned off.*

ENGLISH

Locating a track or particular portion on a CD



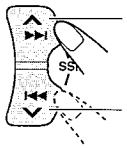
To fast forward or reverse the track



Press and hold SSM ▶▶I ^, while playing a CD, to fast forward the track.

Press and hold SSM I◀◀ v, while playing a CD, to reverse the track.

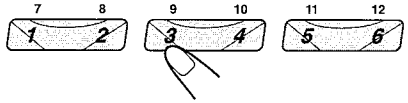
To go to the next track or the previous track



Press SSM ▶▶I ^ briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next track is located and played back.

Press SSM I◀◀ v briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous track is located and played back.

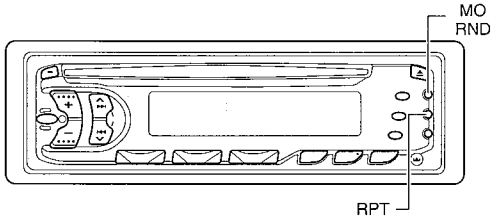
To go to a particular track directly



Press the number button corresponding to the track number to start its playback.

- To select a track number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

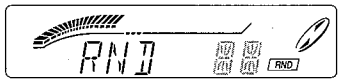
Selecting CD playback modes



To play back tracks at random (Random Play)

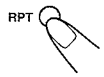
You can play back all tracks on the CD at random.

Each time you press MO RND (Mono/Random) while playing a CD, CD random play mode turns on and off alternatively.
When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.

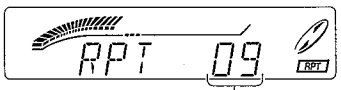


To play back tracks repeatedly (Repeat Play)

You can play back the current track repeatedly.



Each time you press RPT (Repeat) while playing a CD, CD repeat play mode turns on and off alternatively.
When the repeat mode is turned on, the RPT indicator lights up on the display.



Track number of the currently playing track

Other convenient CD functions

Prohibiting CD ejection

You can prohibit the CD ejection and can "lock" a CD in the loading slot.
Press and hold CD and ⏏ for more than 2 seconds. "EJECT" flashes on the display for about 5 seconds, and the CD is "locked."
To cancel the prohibition and "unlock" the CD, press and hold CD and ⏏ for more than 2 seconds again. "EJECT" appears on the display, and the CD ejects from the loading slot.

SOUND ADJUSTMENTS

ENGLISH

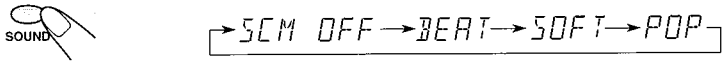
Turning on/off the loudness function

The human ear is less sensitive to low and high frequencies at low volumes.
The loudness function can boost these frequencies to produce a well-balanced sound at low volume levels.
Each time you press LOUD, the loudness function turns on and off alternatively.

Selecting preset sound modes

You can select a preset sound adjustment suitable to the music genre.

Each time you press SOUND, the sound mode changes as follows.



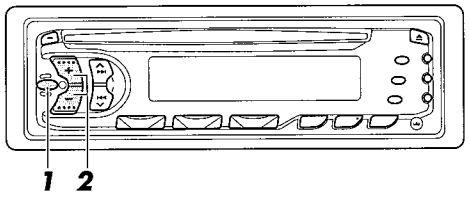
Indication	For:	Preset values		
		Bass	Treble	Loudness
SCM OFF	(Flat sound)	00	00	On
BEAT	Rock or disco music	+2	00	On
SOFT	Quiet background music	+1	–3	Off
POP	Light music	+4	+1	Off

Notes:

- *You can adjust the preset sound mode to your preference, and store it in memory. If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 15.*
- *To adjust only the bass and treble reinforcement levels to your preference, see "Adjusting the sound" on page 14.*

Adjusting the sound

You can adjust the treble/bass sound and the speaker balance.



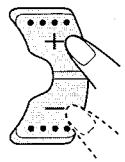
1

Select the item you want to adjust.

Indication	To do:	Range
BAS (bass)	Adjust the bass	–6 (min.) — +6 (max.)
TRE (treble)	Adjust the treble	–6 (min.) — +6 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R6 (rear only) — F6 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L6 (left only) — R6 (right only)
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

Note:
* *If you are using a two-speaker system, set the fader level to "00" (center).*

2



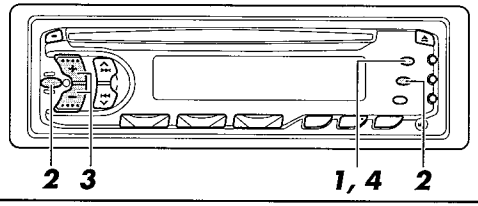
Adjust the level.

Note:
Normally the + and – buttons work as the volume control buttons. So you do not have to select "VOL" to adjust the volume level.

ENGLISH

Storing your own sound adjustments

You can adjust the sound modes (BEAT, SOFT, POP: see page 13) to your preference and store your own adjustments in memory.



1

Call up the sound mode you want to adjust.
See page 13 for details.

Within 5 seconds

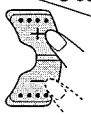
2

To adjust the bass or treble sound level
Select "BAS" or "TRE."

To turn on or off the loudness function
Each time you press LOUD, the loudness function turns on and off alternatively. (→ go to step 4)

Within 5 seconds

3



Adjust the bass or treble level.
See page 14 for details.

Within 5 seconds

4

Press and hold SOUND until the sound mode you have selected in step 1 flashes on the display.
Your setting is stored in memory.

5

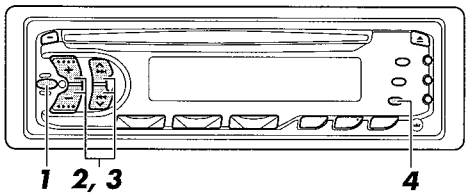
Repeat the same procedure to store other settings.

To reset to the factory settings

Repeat the same procedure and reassign the preset values listed in the table on page 13.

OTHER MAIN FUNCTIONS

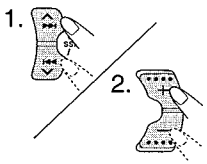
Setting the clock



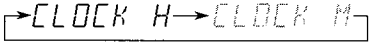
1

Press and hold the button for more than 2 seconds.
"CLOCK H" or "CLOCK M" appears on the display.

2

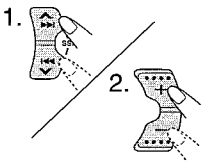


Set the hour.
1. Select "CLOCK H" if not shown on the display.

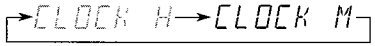


2. Adjust the hour.

3



Set the minute.
1. Select "CLOCK M."



2. Adjust the minute.

4

Start the clock.

To check the current clock time (changing the display mode)

Press DISP repeatedly. Each time you press the button, the display mode changes as follows.

During tuner operation:	During CD operation:
Frequency ⟷ Clock	Elapsed playing time ⟷ Clock

- If the unit is not in use when you press DISP, the power turns on, the clock time is shown for 5 seconds, then the power turns off.

ENGLISH

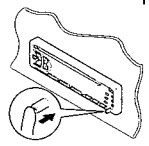
Detaching the control panel

You can detach the control panel when leaving the car.
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

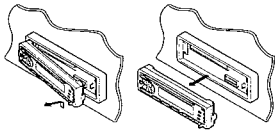
How to detach the control panel

Before detaching the control panel, be sure to turn off the power.

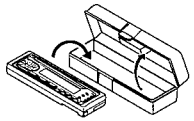
1 Unlock the control panel.



2 Lift and pull the control panel out of the unit.

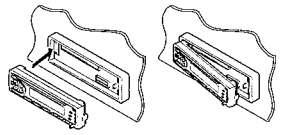


3 Put the detached control panel into the provided case.

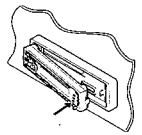


How to attach the control panel

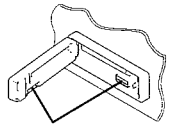
1 Insert the left side of the control panel into the groove on the panel holder.



2 Press the right side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

MAINTENANCE

Handling CDs

This unit has been designed only to play back the CDs bearing the COMPACT DISC DIGITAL AUDIO mark. Other discs cannot be played back.

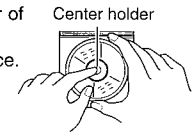
How to handle CDs

When removing a CD from its case, press down the center holder of the case and lift the CD out, holding it by the edges.

- Always hold the CD by the edges. Do not touch its recording surface.

When storing a CD into its case, gently insert the CD around the center holder (with the printed surface facing up).

- Make sure to store CDs into the cases after use.

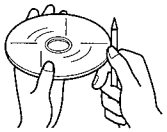


To keep CDs clean

A dirty CD may not play correctly. If a CD becomes dirty, wipe it with a soft cloth in a straight line from center to edge.

To play new CDs

New CDs may have some rough spots around the inner and outer edges. If such a CD is used, this unit may reject the CD.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the CD and leave the unit turned on for a few hours until the moisture evaporates.

CAUTIONS:

- *Do not insert 8cm (3 3/16") CDs (single CDs) into the loading slot. (Such CDs cannot be ejected.)*
- *Do not insert any CD of unusual shape — like a heart or flower; otherwise, it will malfunction.*
- *Do not expose CDs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
- *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean CDs.*

About mistracking:
Mistracking may result from driving on extremely rough roads. This does not damage the unit and the CD, but will be annoying.
We recommend that you stop CD play while driving on such rough roads.

ENGLISH

TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Causes	Remedies
• CD cannot be played back.	CD is inserted upside down.	Insert the CD correctly.
• CD sound is sometimes interrupted.	You are driving on rough roads.	Stop CD play while driving on rough roads.
	CD is scratched.	Change the CD.
	Connections are incorrect.	Check the cords and connections.
• "NO DISC" appears on the display.	No CD is in the loading slot.	Insert a CD into the loading slot.
	CD is inserted incorrectly.	Insert it correctly.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• CD can be neither played back nor ejected.	The CD player may function incorrectly.	Press ⏻/I/ATT and ⏏ at the same time for more than 2 seconds. Be careful not to drop CD when it is ejected.
• The unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press ⏻/I/ATT and SEL at the same time for more than 2 seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.)

SPECIFICATIONS

ENGLISH

AUDIO AMPLIFIER SECTION

Maximum Power Output:
- Front: 35 watts per channel
- Rear: 35 watts per channel

Continuous Power Output (RMS):
- Front: 15 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.
- Rear: 15 watts per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range:
- Bass: ±10 dB at 100 Hz
- Treble: ±10 dB at 10 kHz

Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance: 2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

TUNER SECTION

Frequency Range:
- FM: 87.5 to 108.0 MHz
- AM: (MW) 522 to 1,620 kHz
  (LW) 144 to 279 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

[MW Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

[LW Tuner]
Sensitivity: 50 μV

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 to 20,000 Hz
Dynamic Range: 95 dB
Signal-to-Noise Ratio: 97 dB
Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:
- Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)

Grounding System: Negative ground
Dimensions (W x H x D):
- Installation Size: 182 x 52 x 150 mm
- Panel Size: 188 x 58 x 14 mm

Mass: 1.3 kg (excluding accessories)

Design and specifications subject to change without notice.

KD-S636

CD RECEIVER

JVC
VICTOR COMPANY OF JAPAN, LIMITED

EN, GE, FR, NL

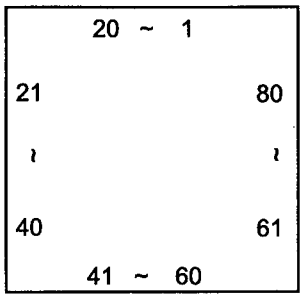
Printed in Singapore
1197MNMMDWJES

<<MEMO>>

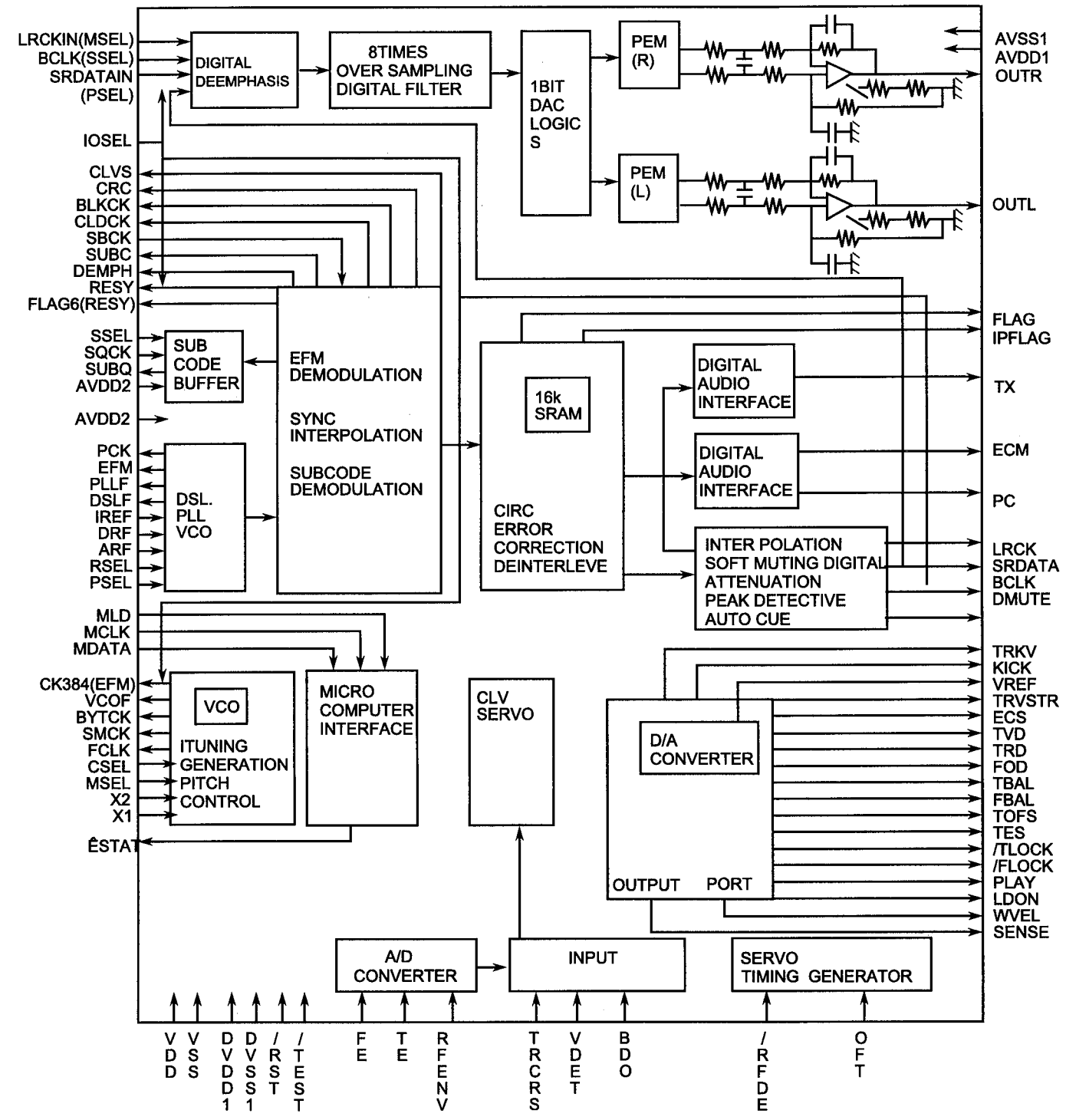
Description of Major ICs

■ MN35510(IC561):DIGITAL SERVO & DIGITAL SIGNAL PROCESSOR

1. Terminal Layout



2.Block Diagram



3. Description

Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio inter output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μcom command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	μcom command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	μcom command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sense signal output	50	AVDD2	—	Power supply(Analog)
11	FLOCK	O	Focus clock signal output Active :Low	51	AVSS2	—	Connected to GND(Analog)
12	TLOCK	O	Tracking clock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code·block·clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside lock for sub-code Q resistor input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND(for X'tal cscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply(for X'tal cscillationcircuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	—	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	—	Pull up

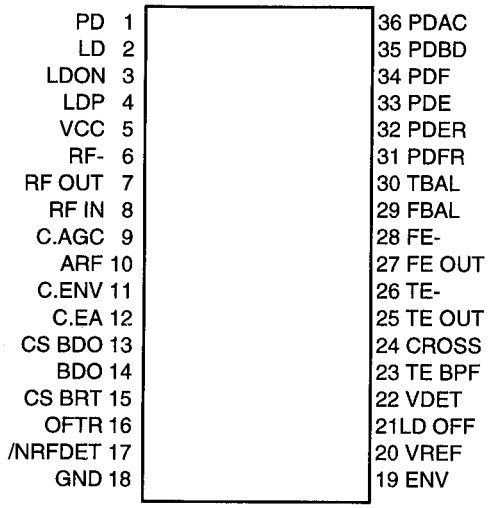
■ IC601: LC72P366(CPU) Terminal's Function Table

2.Terminal Function

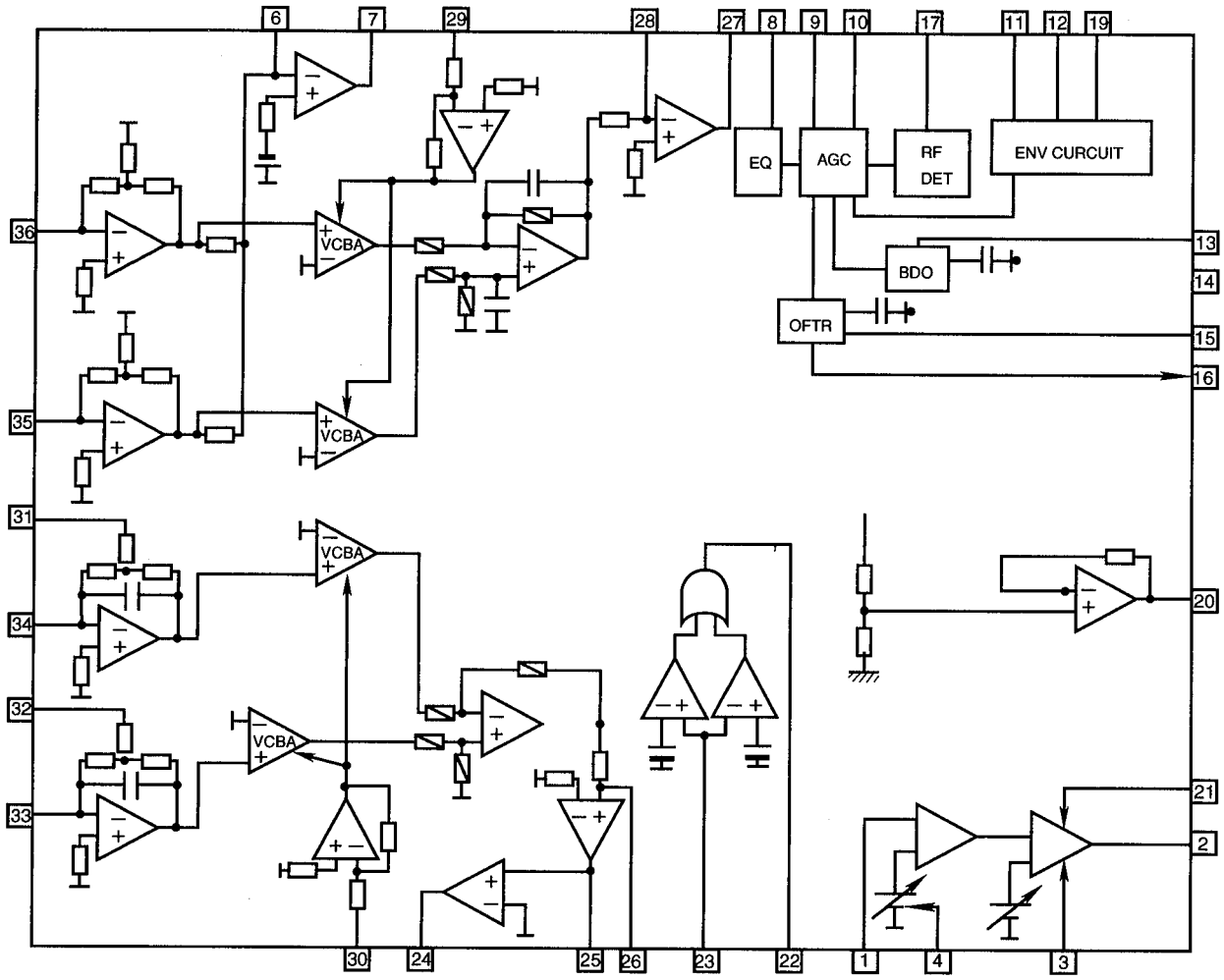
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XIN		4.5MHz crystal oscillation connection pin.	41	CD ON	O	CD power supply on ("H": 8V,"L": 0V)
2		-	Non connection	42	RELAY	O	5V power control
3		-	Non connection	43	POWERCONT	-	Non connection
4		-	Non connection	44		-	Non connection
5		-	Non connection	45		-	Non connection
6		-	Non connection	46	SW1	I	Disc in detecting switch input. (8cm disc detect)
7	SUBQ	I	CD Lsi Sub-code Q-codedata input (to IC651 pin14)	47	SW3	I	Disc existence detecting switch input (Loading finish detect)
8		-	Non connection	48	RESETSW	I	Rest switch input
9	SQCK	O	CD Lsi Sub-code clock	49		-	Non connection
10	/RESET	O	Micon reset pin	50		-	Non connection
11		-	Non connection	51	CDSENSE	I	Sense signal input from CD Lsi.
12		-	Non connection	52	STATAS	I	Status signal input
13		-	Non connection	53	P.SAVE2	I	Power save 2 detecting input
14	LCDCE	O	Chip enable signal output for LCD driver	54	SO/ST		Station detection("H": found)/Stereo indication("L":Stereo)
15		-	Non connection	55		-	Non connection
16		-	Non connection	56		-	Non connection
17		-	Non connection	57	BAND	O	FM/AM band selection ("H":FM , "L":AM)
18		-	Non connection	58	/MONO	O	FM mono control signal output("H":mono)
19	LM0	O	Loading motor control signal output (FWD)	59	IFRQ/ABC		During FM auto search,IF reguest output "H" after SD detected.
20	LM1	O	Loading motor control signal output (REW)	60	/MUTE	O	Muting switch
21		-	Non connection	61		-	Non connection
22		-	Non connection	62	SMETER	I	S.meter input
23		-	Non connection	63	KEYCHANGE	-	AD Key select ("H" :Normal, "L":Test)
24	KS2	O	Initial setting diode matrix output pin 2	64	KEY2	I	KEY AD input pin 2
25	KS1	O	Initial setting diode matrix output pin 1	65	KEY1	I	KEY AD input pin 1
26	KS0	O	Initial setting diode matrix output pin 0	66	KEY0	I	KEY AD input pin 0
27	DETACH	I	Remove the front panel detecting input	67	P.SAVE1	I	Power save 1 detecting input
28		-	Non connection	68	SENSE	O	Sense signal output
29		-	Non connection	69		-	Non connection
30		-	Non connection	70	FMIFCOUT	I	FM IF count signal input
31		-	Non connection	71		-	Non connection
32	SW2	I	Detect switch for 12cm disc input	72		-	Non connection
33	Lsi reset	O	CD Lsi reset signal output	73	Vdd	-	Power source pin
34	MCLK	O	CD Lsi command clock signal output	74		-	Non connection
35	MDATA	O	CD Lsi command data output	75	FMOSC	I	FM local oscillator signal input
36	MLD	O	CD Lsi command load signal output	76	Vss	-	Connected to GND
37		-	Non connection	77	NC	-	Non connection
38		-	Non connection	78	ERROROUT	O	PLL error signal output
39	SCL	O	E.volume clock signal output	79	GND	-	Test pin (To GND)
40	SDA	O	E.volume data signal output	80	XOUT	O	4.5MHz crystal oscillator connection pin.

■ AN8806SB(IC601):RF&SERVO AMP

1.Terminal Layout



2.Block Diagram

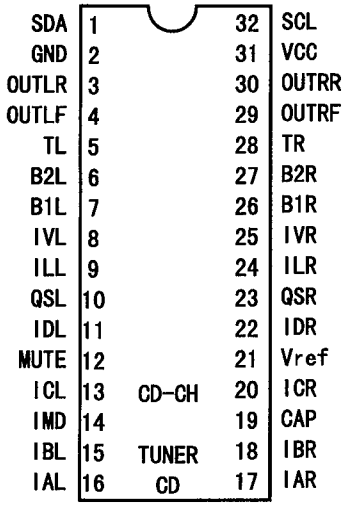


3. Functions

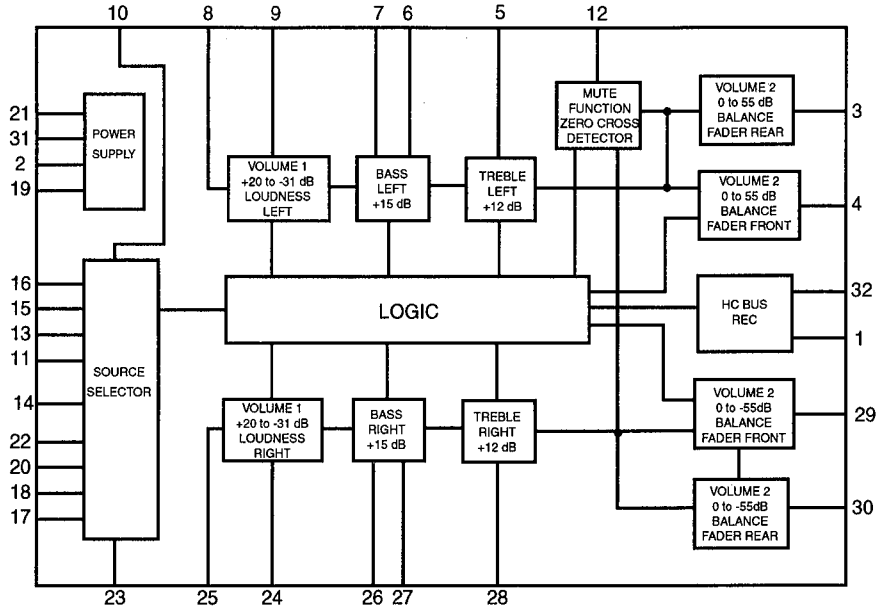
Pin No.	Symbol	I/O	Functions and operations
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	--	Connect to ground
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	RF output
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
16	OFTR	O	Of-track status signal output
17	/NRFDET	O	RF detection signal output
18	GND	--	Ground
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output
21	LD OFF	--	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

■TEA6320T (IC301) : E. VOLUME

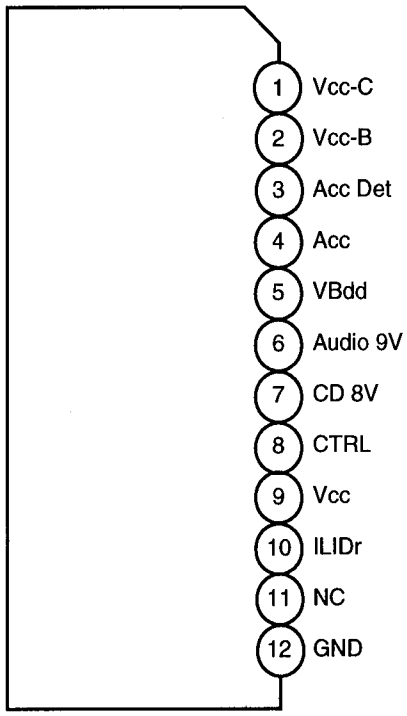
1.Terminal Layout



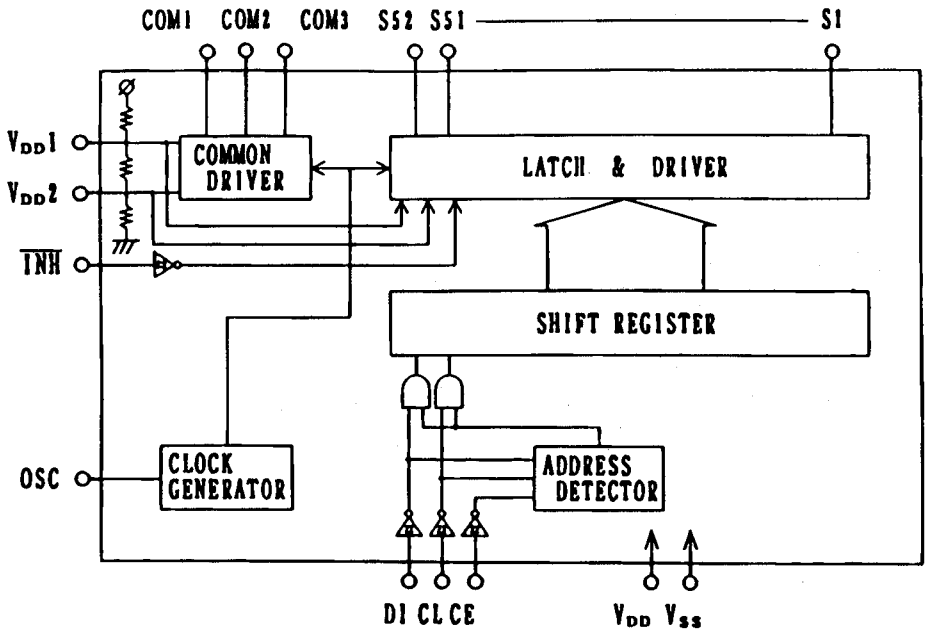
2.Block Diagram



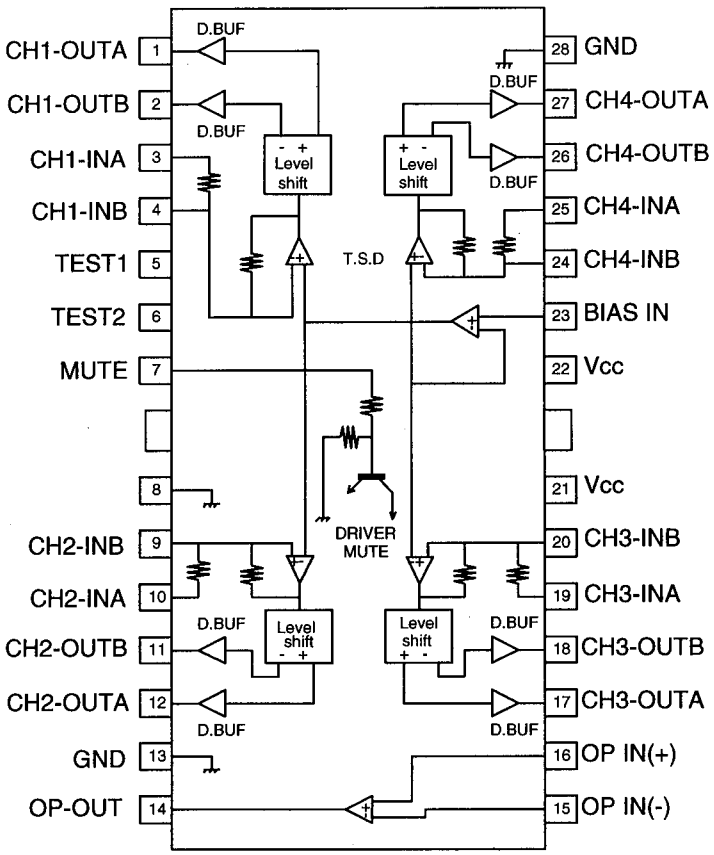
■ IC901:BA4901 (REGULATOR)



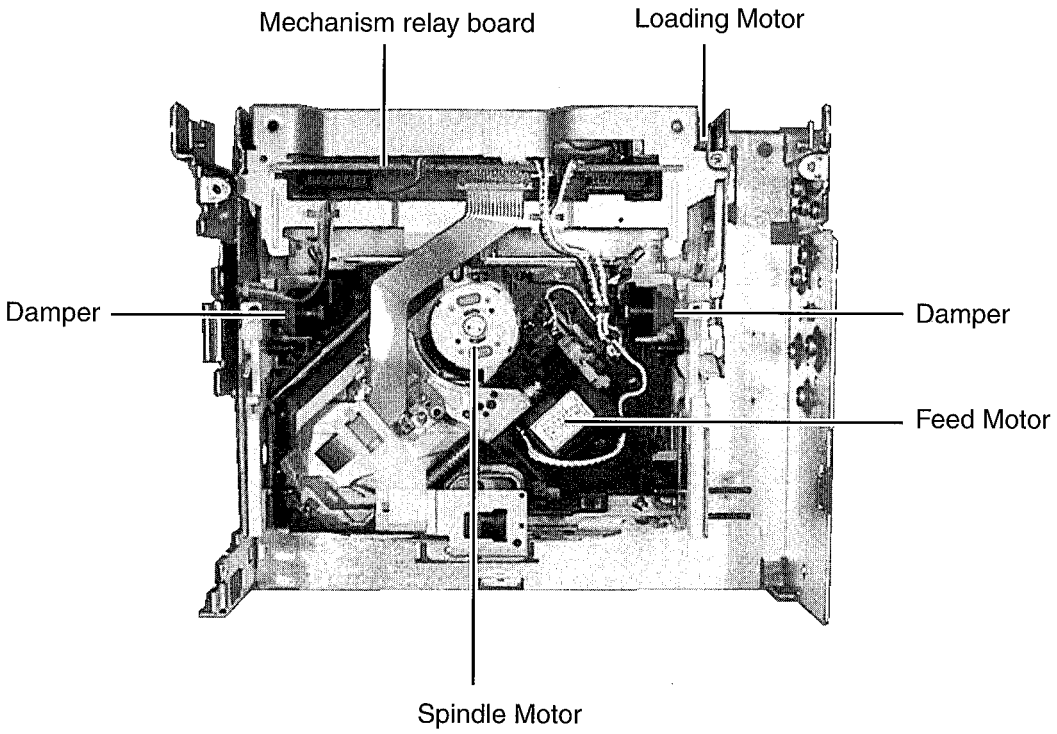
■ IC951: LC75823E (LCD DRIVER)



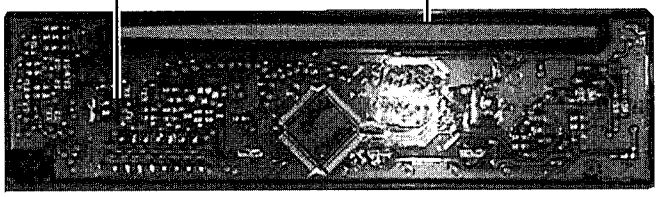
■ BA6898FP(IC541) 4channel driver

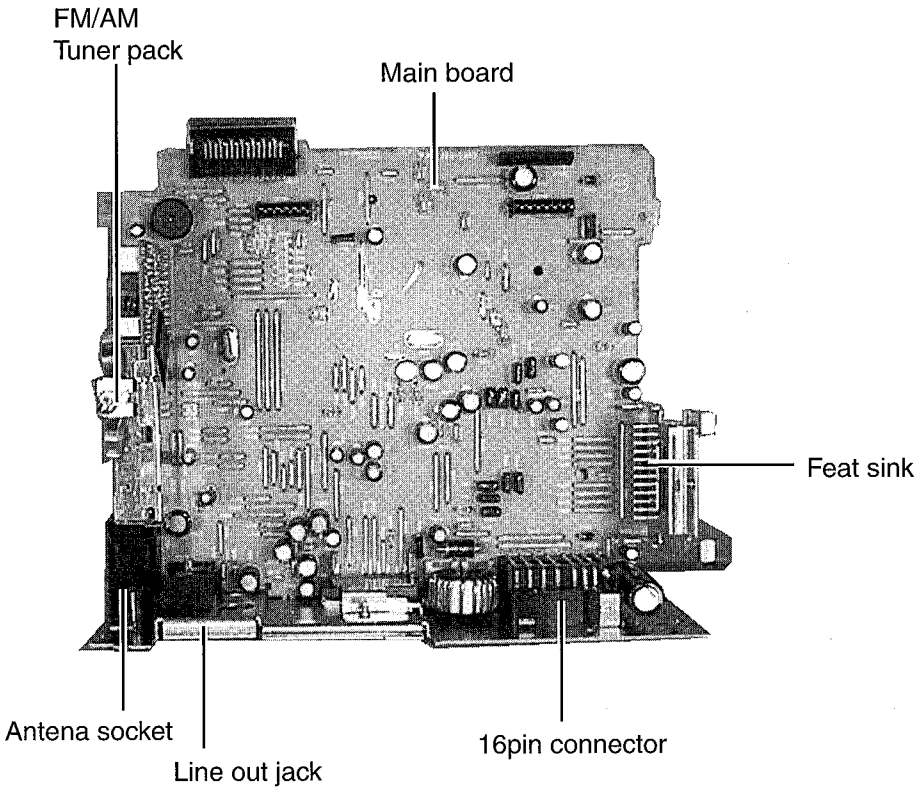


Location of Main Parts



Location of Main Parts





Removal of Main Parts

■ Detaching the front Panel Unit

(See Fig-1)

De press the release button in the direction shown to detach the front panel unit .

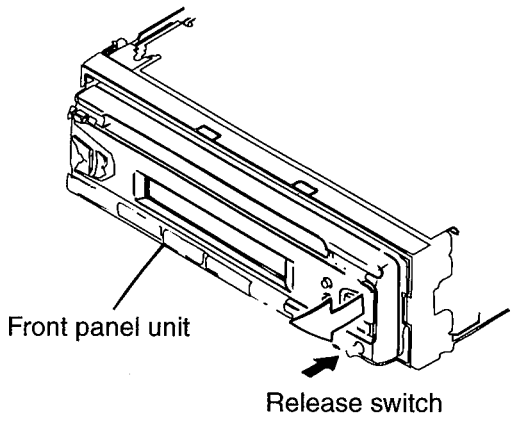


Fig.1

■ Removing the front chassis

(See Fig.2)

1.Release the two catch on the right side of unit and pull the front chassis foward to remove it.

2.Release the two catch on the left side of unit and pull the front chassis forward to remove it.

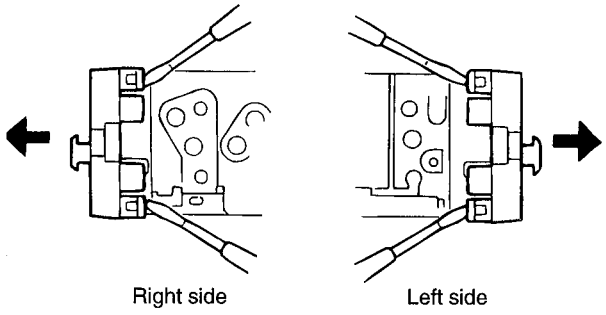


Fig.2

■ Removing the heat sink

(See Fig.3)

1.Locate the heat sink side of the unit .

2.Remove three screws ① retaining the heat sink.

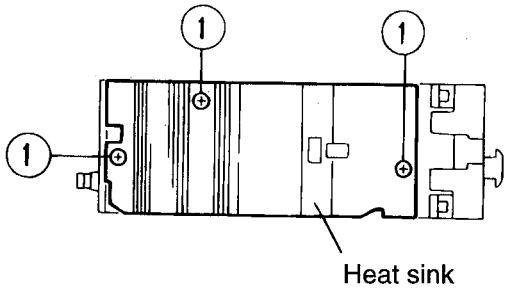


Fig.2

■ Removing the bottom cover

(See Fig.4)

Turn the unit upside down then insert and twist the screw driver to remove the bottom cover.

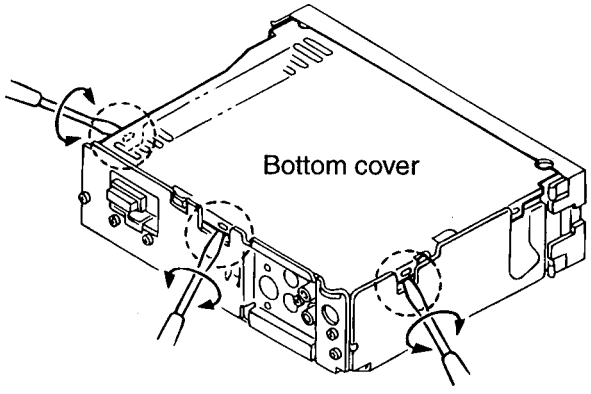


Fig.4

■ Removing the main board
(See Fig.5,Fig.6)

1.Remove two screws ② retaining the main board.
2.Locate the rear side of the unit.
3.Remove the three screws ③ retaining the rear bracket.
4.Lift up the main board to remove it, at this time remove the connections CN501 and CN502 connecting the main board and CD mechanism assembly.

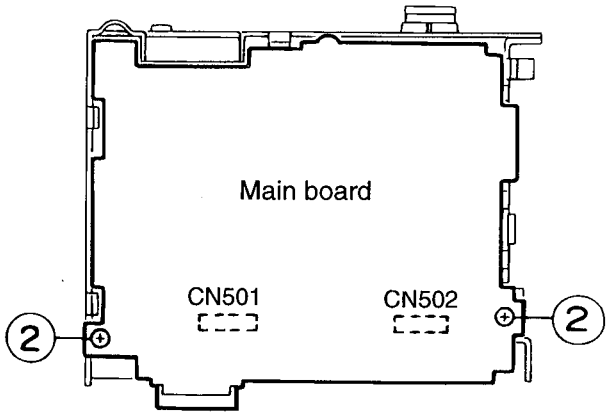


Fig.5

■ Removing the CD mechanism assembly
(See Fig.7)
Remove three screws ④ retaining the CD mechanism assembly from the top cover.

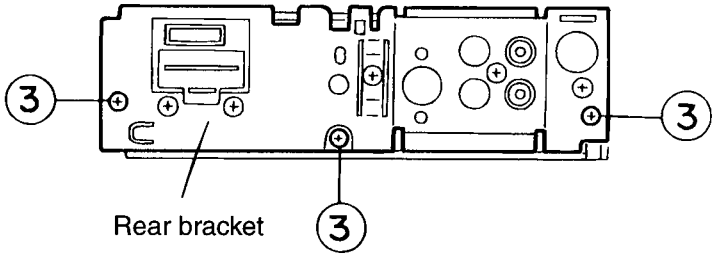


Fig.6

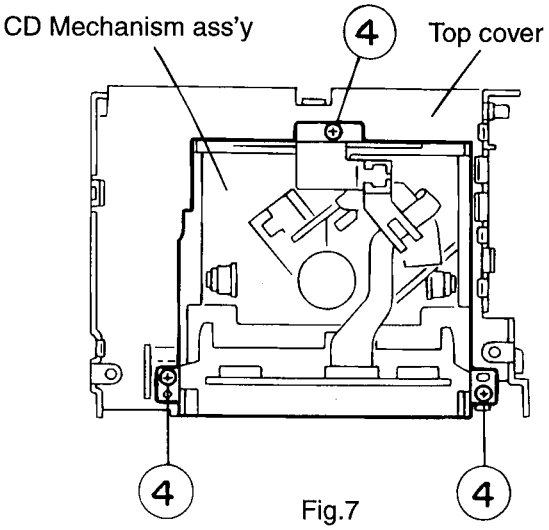


Fig.7

■ Removing the operation switch board
(See Fig.9)

1.Locate the rear side of the front panel unit .
2.Remove four screws ⑤ retaining the rear cover.
3.Remove the operation switch board off on the front Panel.

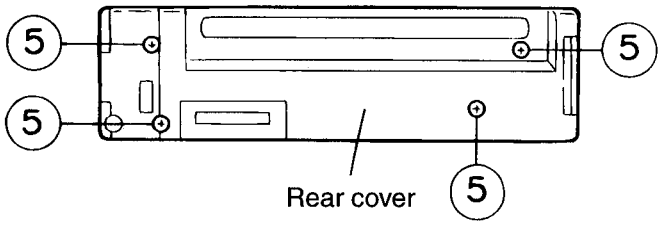


Fig.8

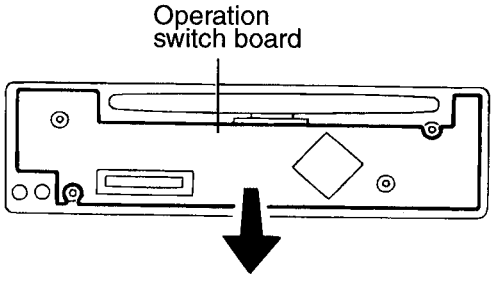


Fig.9

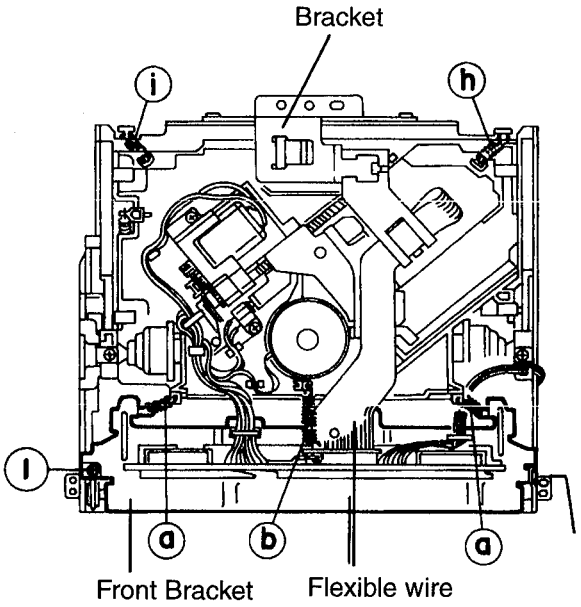


Fig.10

[CD Mechanism Section]

■ Removing the CD mechanism control P.C.board

1.Remove the CD mechanism assembly (See "Removlng the CD mechanism assembly").
2.Remove the three springs ⓐ and ⓑ from behind the CD mechanism assembly(See Fig.10).
3.Disconnect the flexible wire connected to the connector on the CD mechanism control P.C.board (See Fig.10).
4.Remove the one screw ② retaining the CD mechanism control P.C.board(See Fig. 11).
5. After disengaging the engagement between the notch section Ⓒ and frame,remove the CD mechanism Control P.C .board successively from ① through to ③ in the arrow direction as shown in Fig. 11.

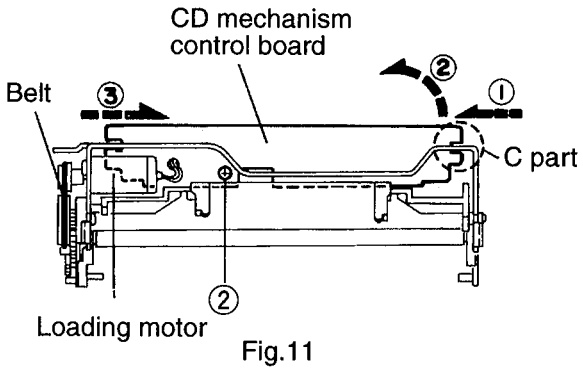


Fig.11

CAUTION:Whenever the flexible wire is disconnected, be sure to remove the soldering in advance as shown in Fig.12. Otherwise , the CD mechanism assembly can possibly be damaged.

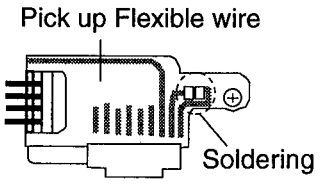


Fig.12

6.Remove the two screws ① retaining the front bracket for fixing the CD mechanism control P. C. board(See Fig.10 or 13).

CAUTION:Remove the front bracket from the frame while expanding both sides of the frame as shown in Fig.14

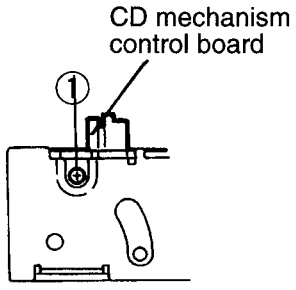


Fig.13

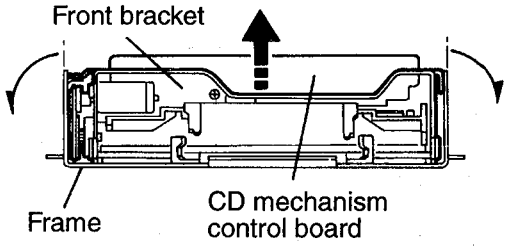


Fig.14

■ Removing the loading motor

1.Remove the belt from the loading motor (See FIg.14 and Fig.15)
2.Remove the one screw ③ retaining the loading motor(See Fig.15)

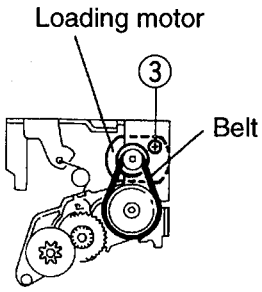


Fig.15

■ Removing the CD mechanism assembly

1.Remove the two screws ④ retaining the bracket for fixing the damper(See Fig.16)
2.When shining the fix plate on the right and left Sides respectively to the arrow direction, lower the entire CD mechanism. When the shafts(ⓓ ,ⓔ ,ⓕ and ⓖ) on both the right and left sides have been set free as shown in Fig.17 and Fig.18,then the assembly can be removed easily.Remove the two screws ⑤ retaining the rear damper bracket to make it easier to remove the damper from the rear damper bracket(See Fig.10, Fig.17 and Fig.18).
3.Remove the two springs ⓗ and ⓘ as shown in Fig.10 and Fig 16.
4.While removing the right and left sides of the rear damper brackets and dampers While expanding both sides of the CD mechanism,disassemble the entire CD mechanism.

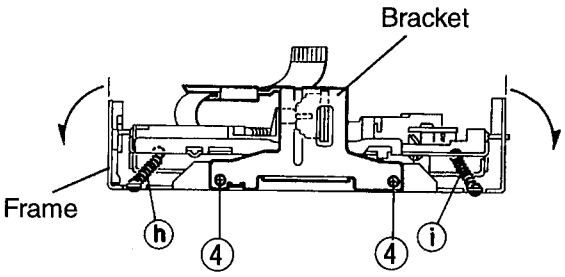


Fig.16

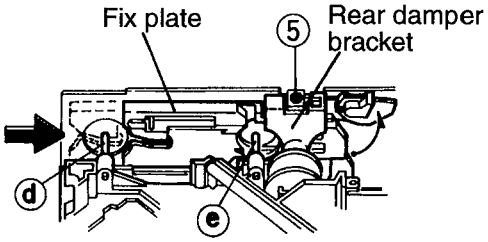


Fig.17

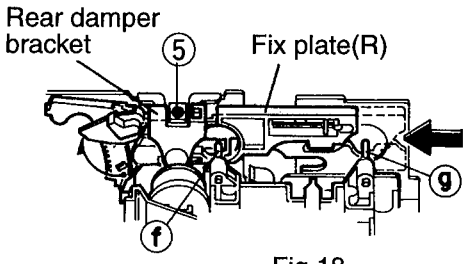


Fig.18

5.While tuning the pickup gear in the arrow direction as shown in Fig.20, shift the entire pickup unit.
6.Remove the three screws ⑥ retaining the feed motor assembly and take out this motor assembly (See Fig.19).
7.While pressing and expanding the spring section holding the FD screw in the arrow direction,remove the FD screw and dismount the pickup unit(See Fig.21).
8.By removing the two screw ⑦ retaining the pickup unit,dismount the nut push spring plate and pickup mount nut (See Fig.22).
9.Remove the FD screw from the pickup unit (See Fig.22).

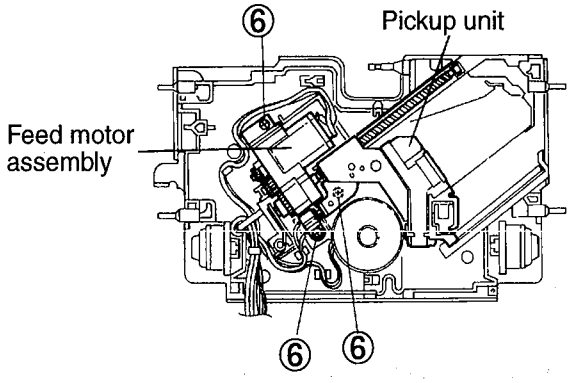


Fig.19

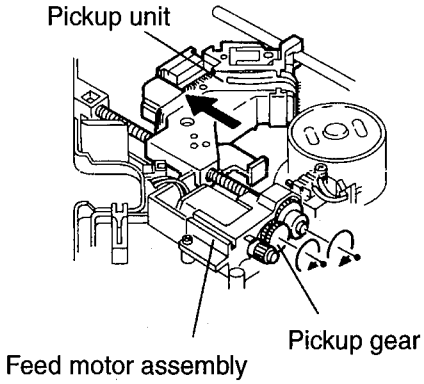


Fig.20

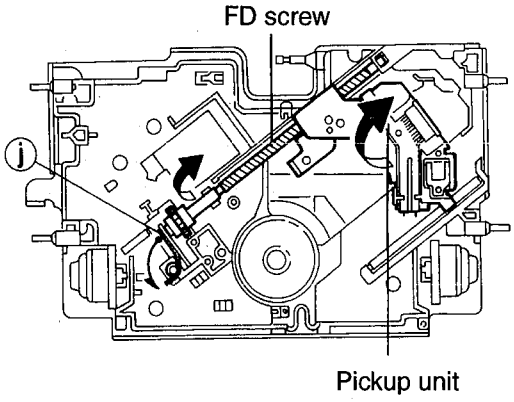


Fig.21

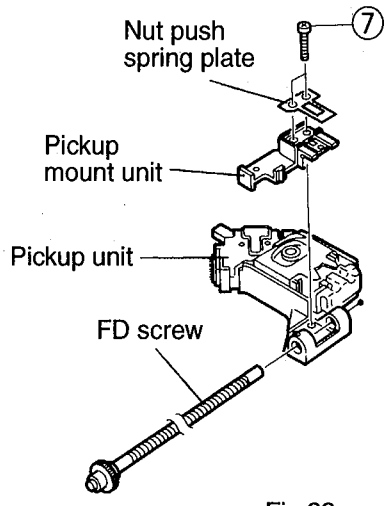


Fig.22

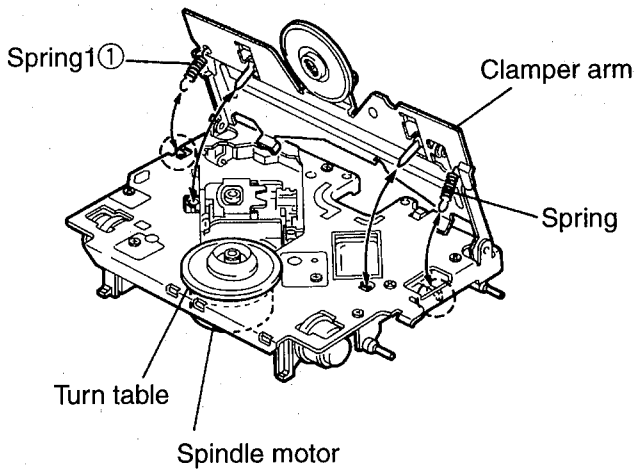


Fig.23

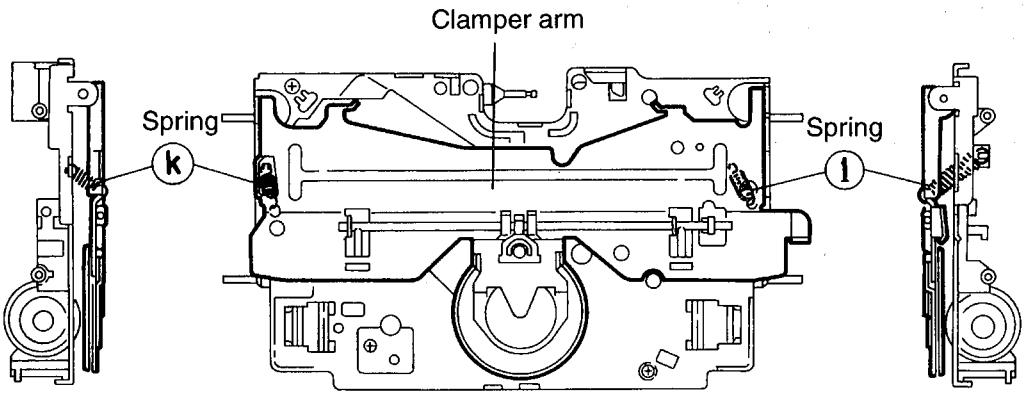


Fig.24-a

Fig.24

Fig.24-b

■ Removing the spindle motor

1.After turning back the CD mechanism to initial positlon,remove the two springs ⓚ and ⓘ on both the right and left sides of the clamper arm(See Fig.23 and Fig.24).
2.While turning the turn table,remove the two screws ⑧ retaining the spindle motor and take out the spindle motor (See Fig.25).

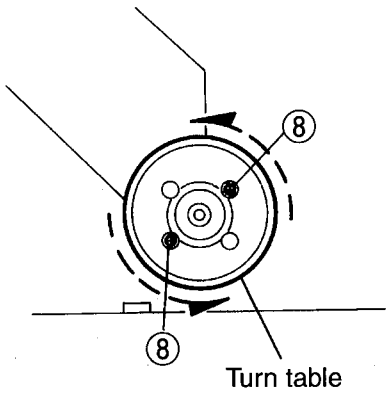


Fig.25

Main Adjustment

■ Test Instruments reqired for adjustment

1. Digital osc cosilloscope (100MHz)
2. AM Standard signal generater
3. FM Standard signal generaler
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Test Disc JVC :CTS1000
9. Extension cable for check
   EXTGS003-14P × 2

■ Standard volume position

Balance and Bass &Treble volume : Indication"0"
Loudness : 0ff

Setting of reference frequency of SSG

AM mode: 600kHZ/62dB-INT/400Hz,30% modulation Signal on

FM mode: 97.9MHZ/66dB/INT/400Hz/22.5kHz deviation pilot 7.5kHz dev.

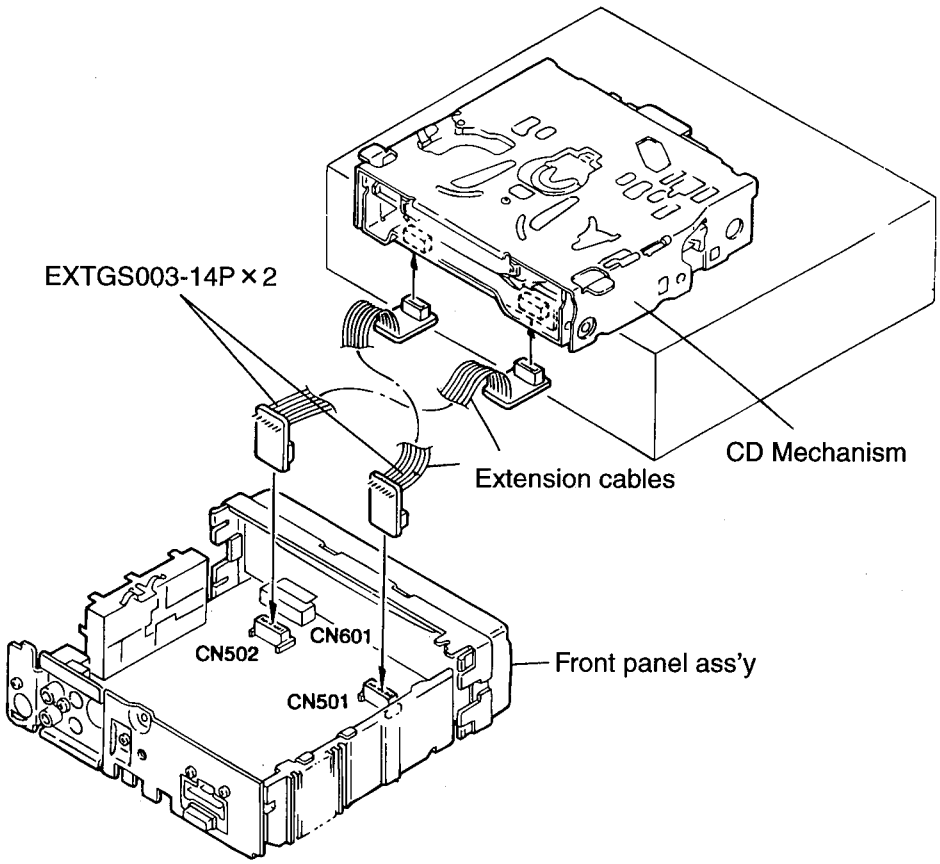
Dummy load

Exclusive dummy load should be used for AM,and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

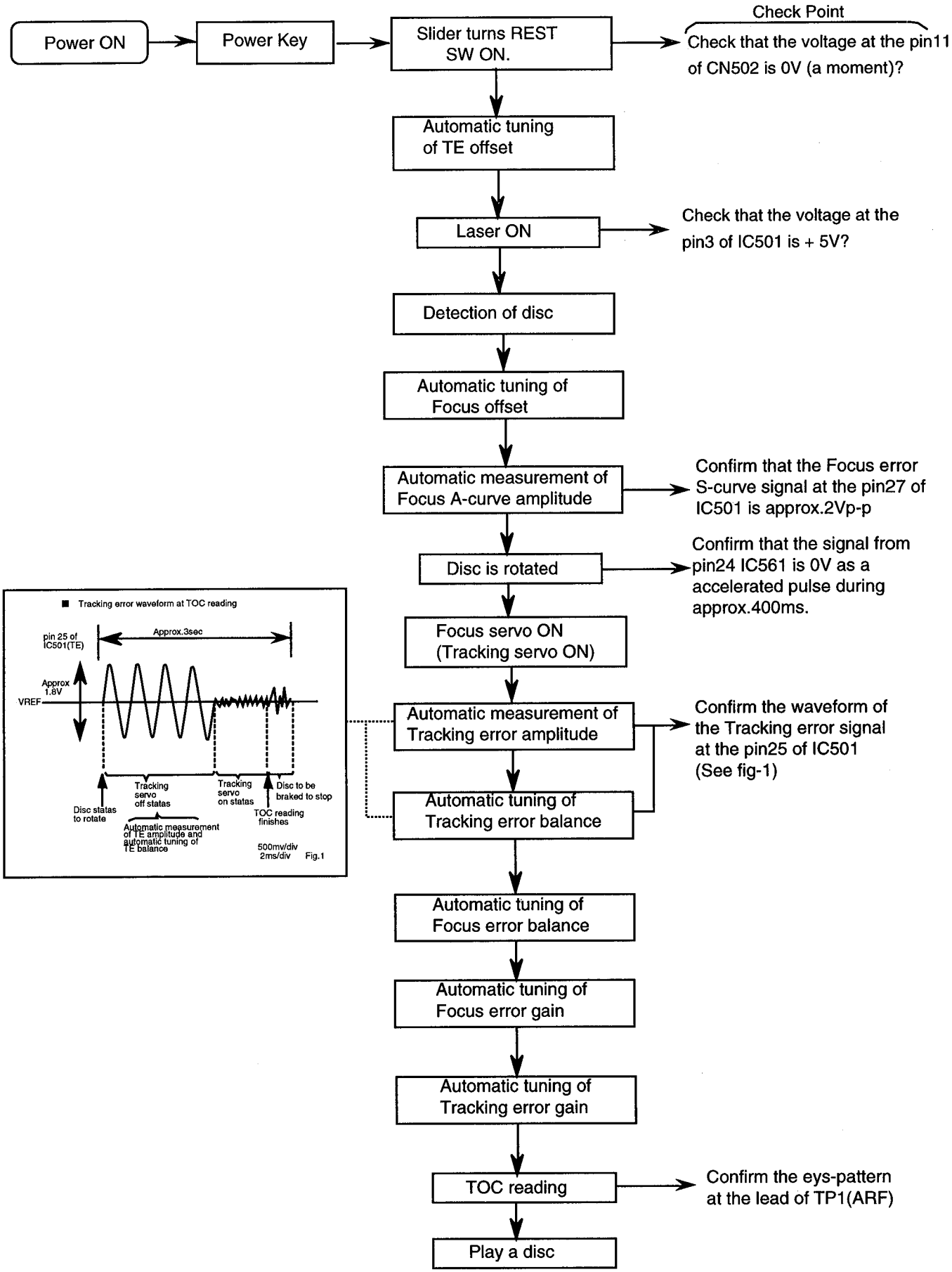
■ Standard measuring conditions

Power supply voltage	DC14.4V(10.5～16V)
Load impedance	4Ω (2 Speakers connection)
Line out	20kΩ

■ How to connect the extension cable for adjusting



Flow of Functional Operation Until TOC Read

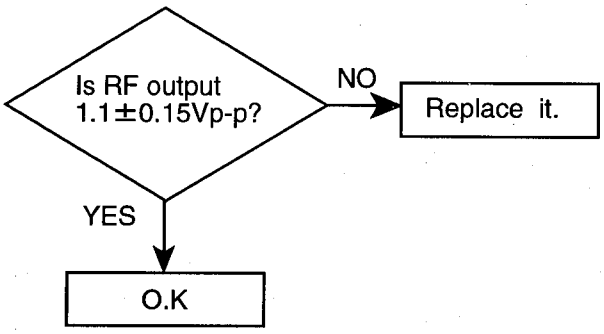


Maintenance of Laser Pickup

(1) Cleaning the pick up lens
Befor you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode (Fig.1)
When the life of the laser diode has expired, the following symptoms wil appear.

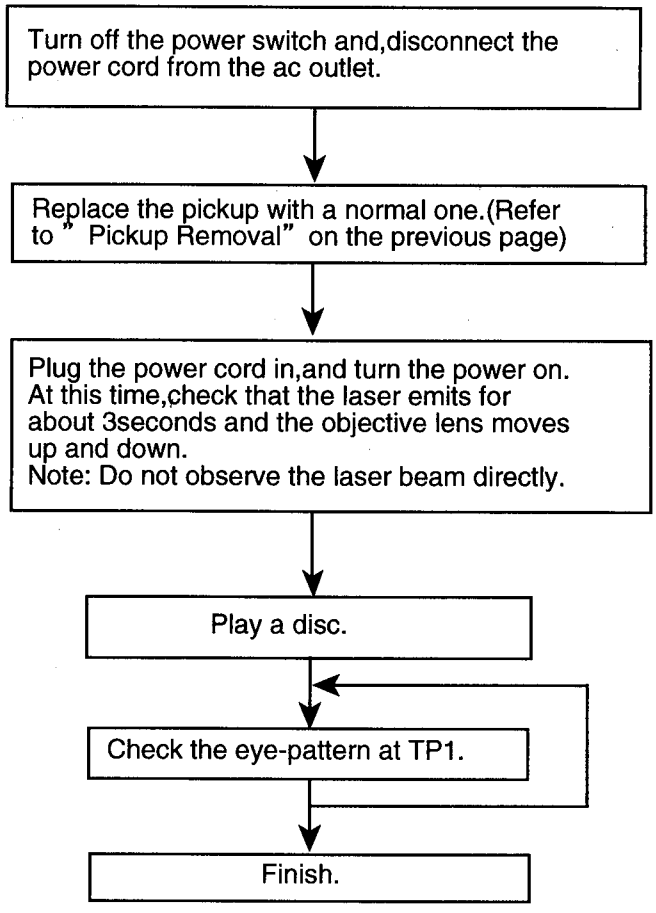
(3) The level of RF output (EFM output:amplitude of eye pattern) will be low.



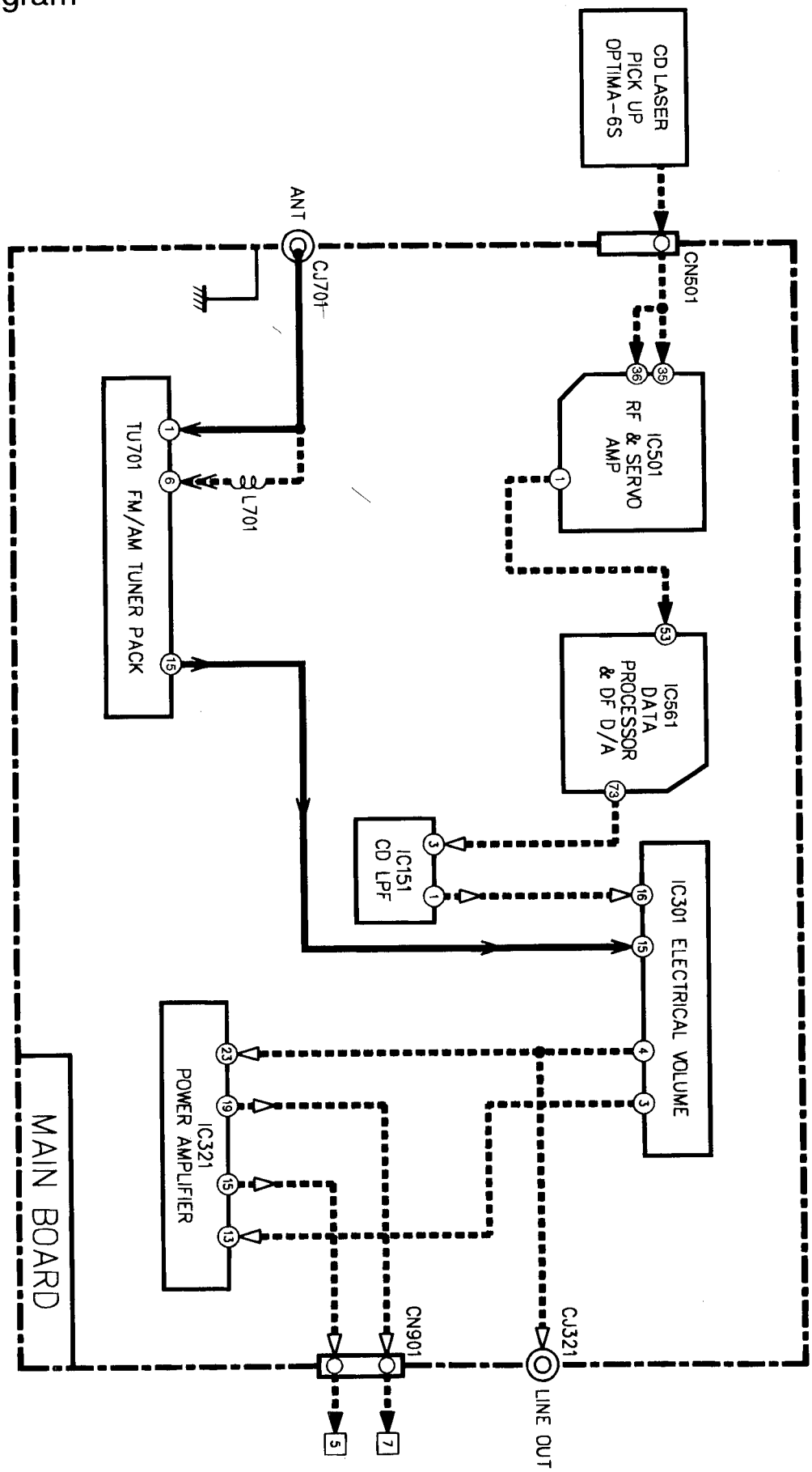
(Fig.1)

(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup

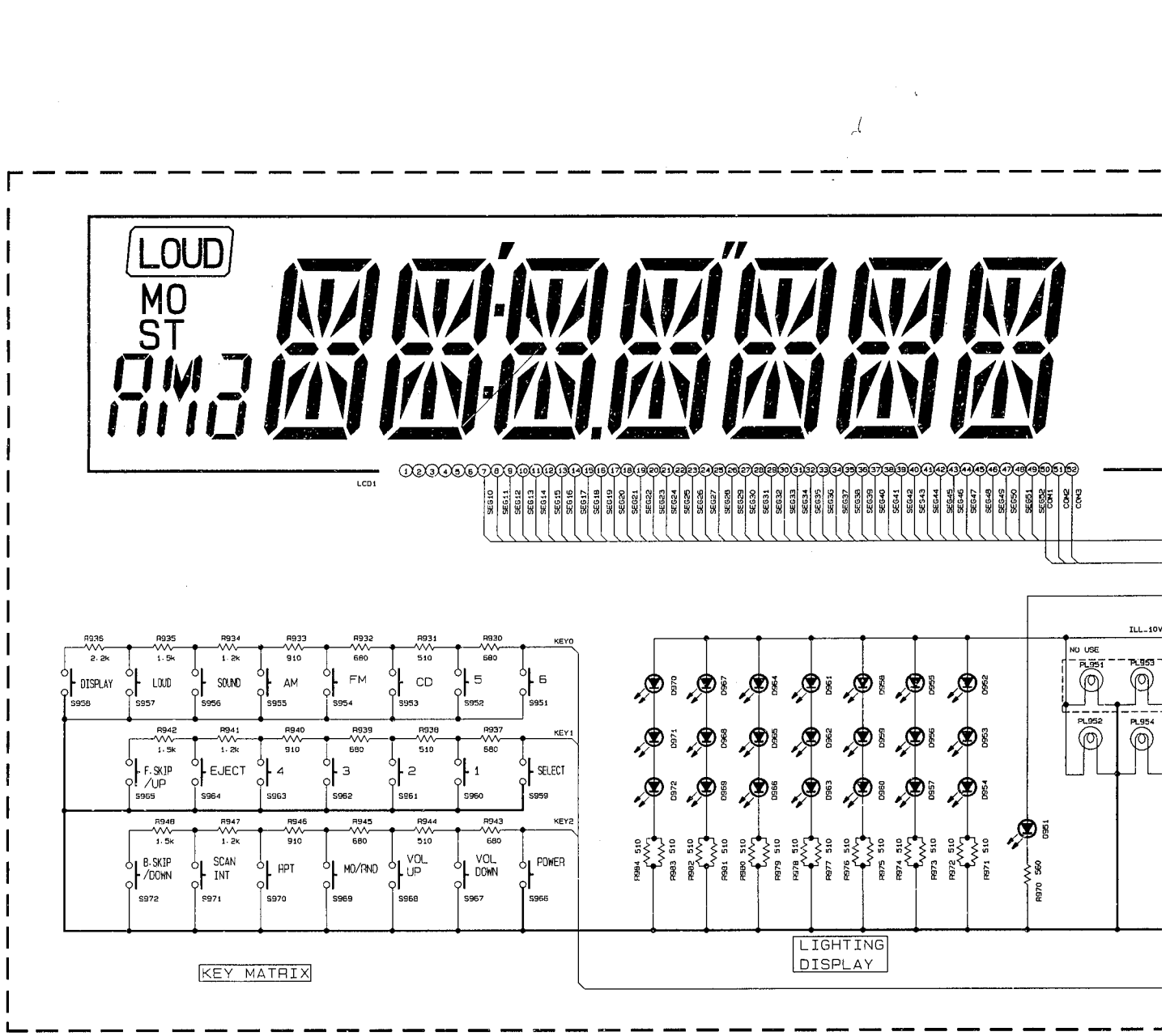


Block Diagram

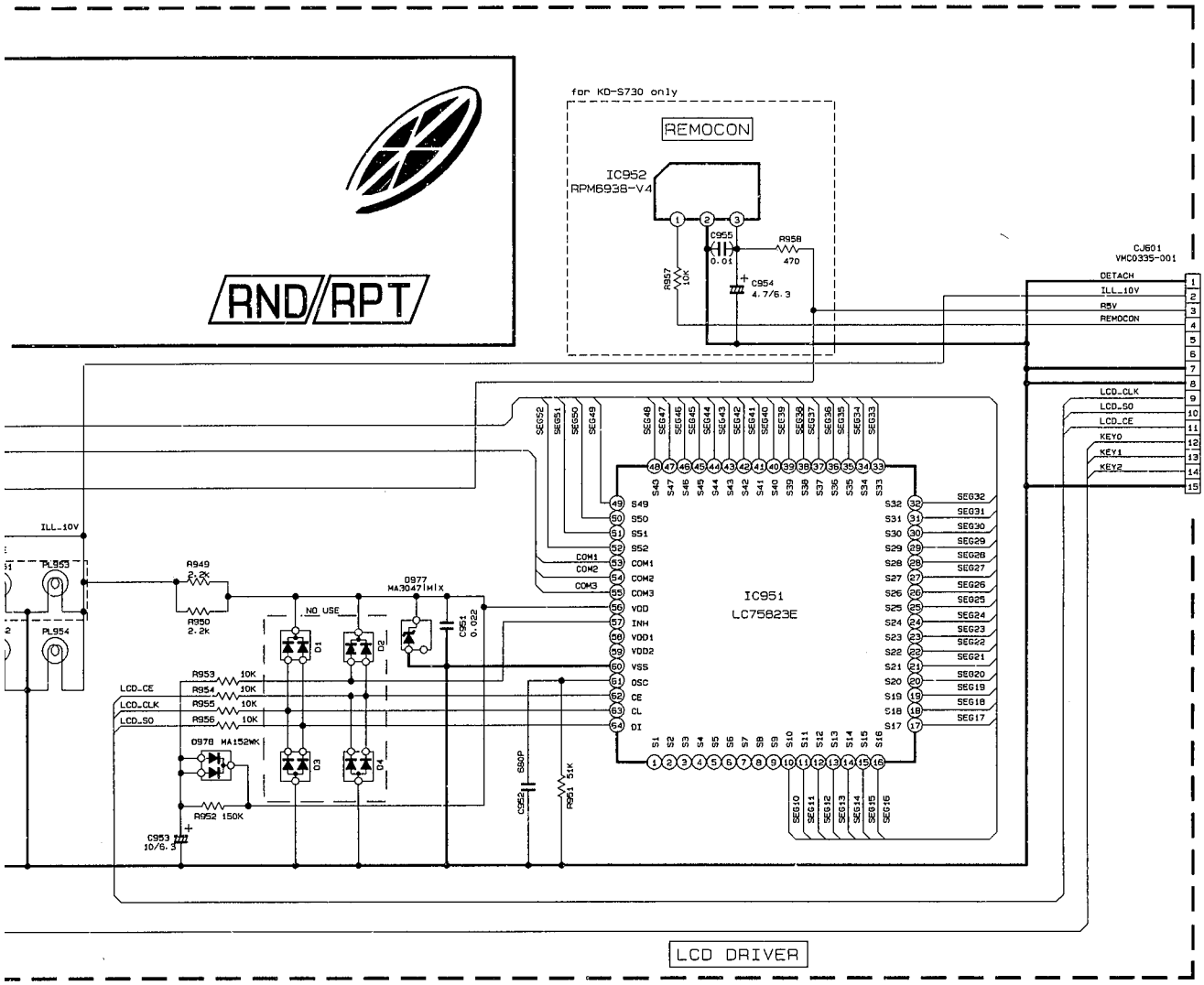


<<MEMO>>

■Reciever & Power Amplifier Circuit



FRONT CIRCUIT BOARD SE

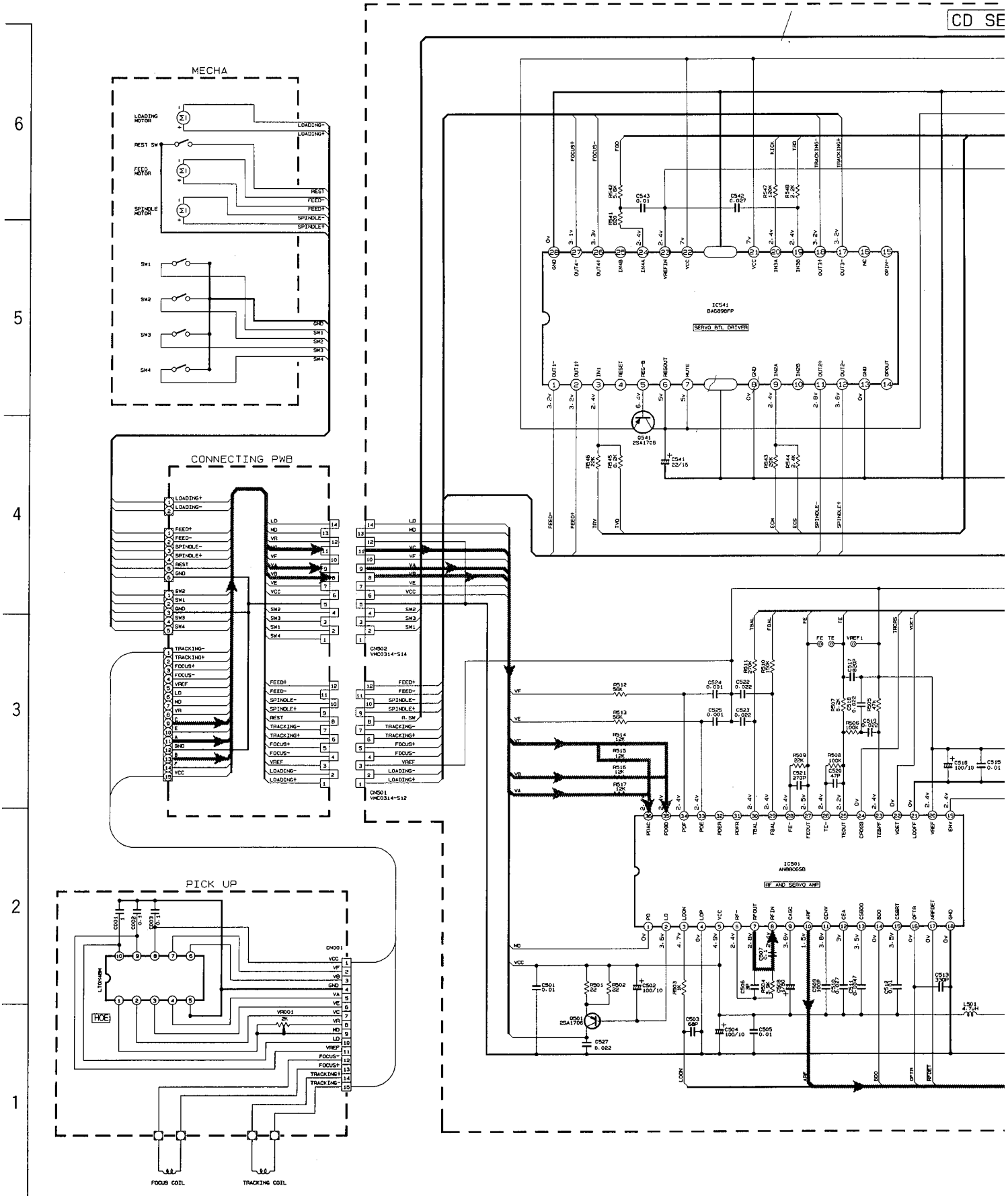


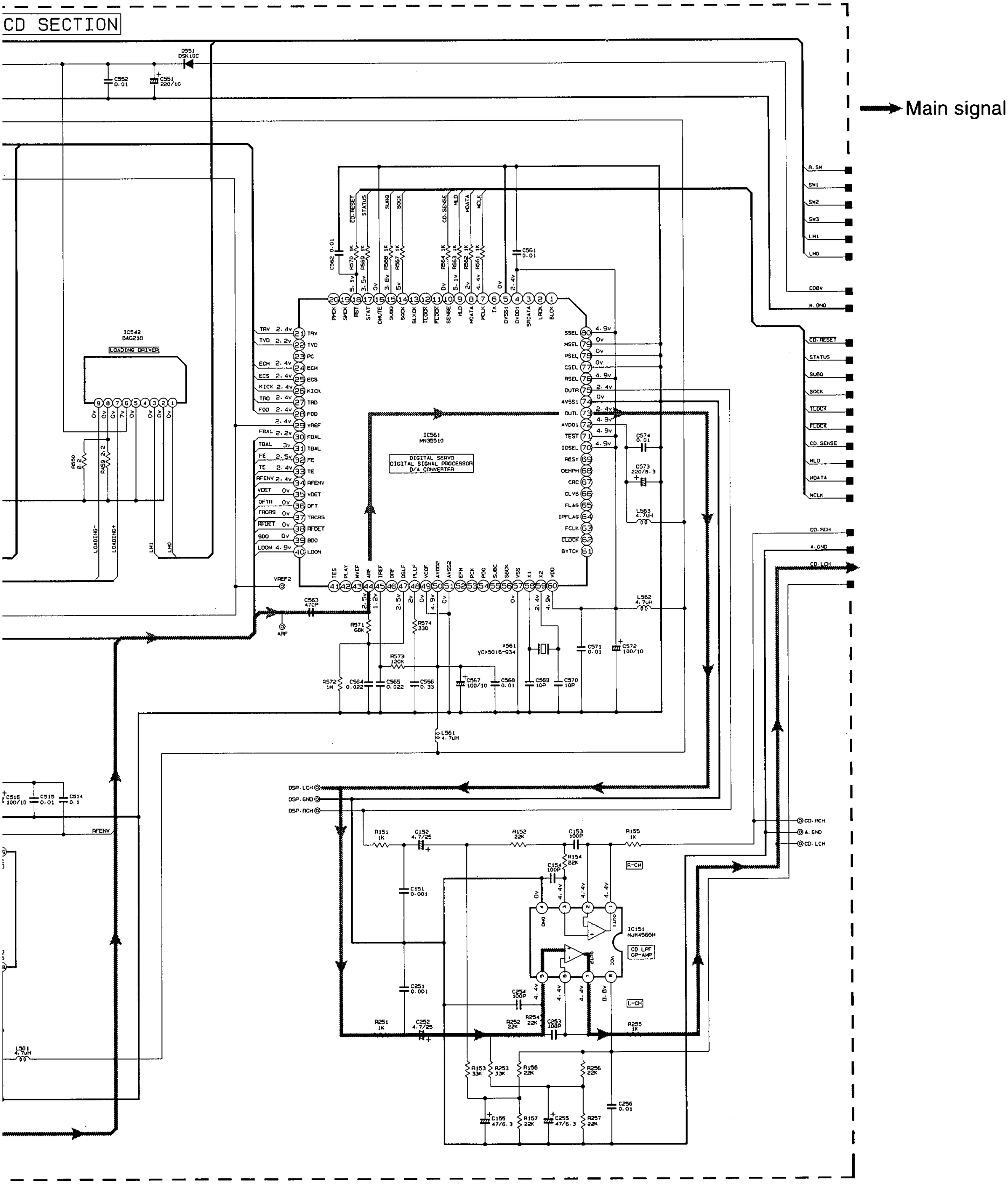
ID SECTION

REF. NO.	PART NO.
S951 - S972	NSW0039-001X
D952 - D972	SML-210FT/JKL/W
D951	SML-210LT/LM/-X
PL952, PL954	KD-S730J/KD-S630J, U QLL0033-001
	KD-S636E QLL0024-001
LCD1	KD-S730J/KD-S630J, U QLD0032-001
	KD-S636E QLD0036-001

F | G | H | I | J

■CD Servo Control Circuit

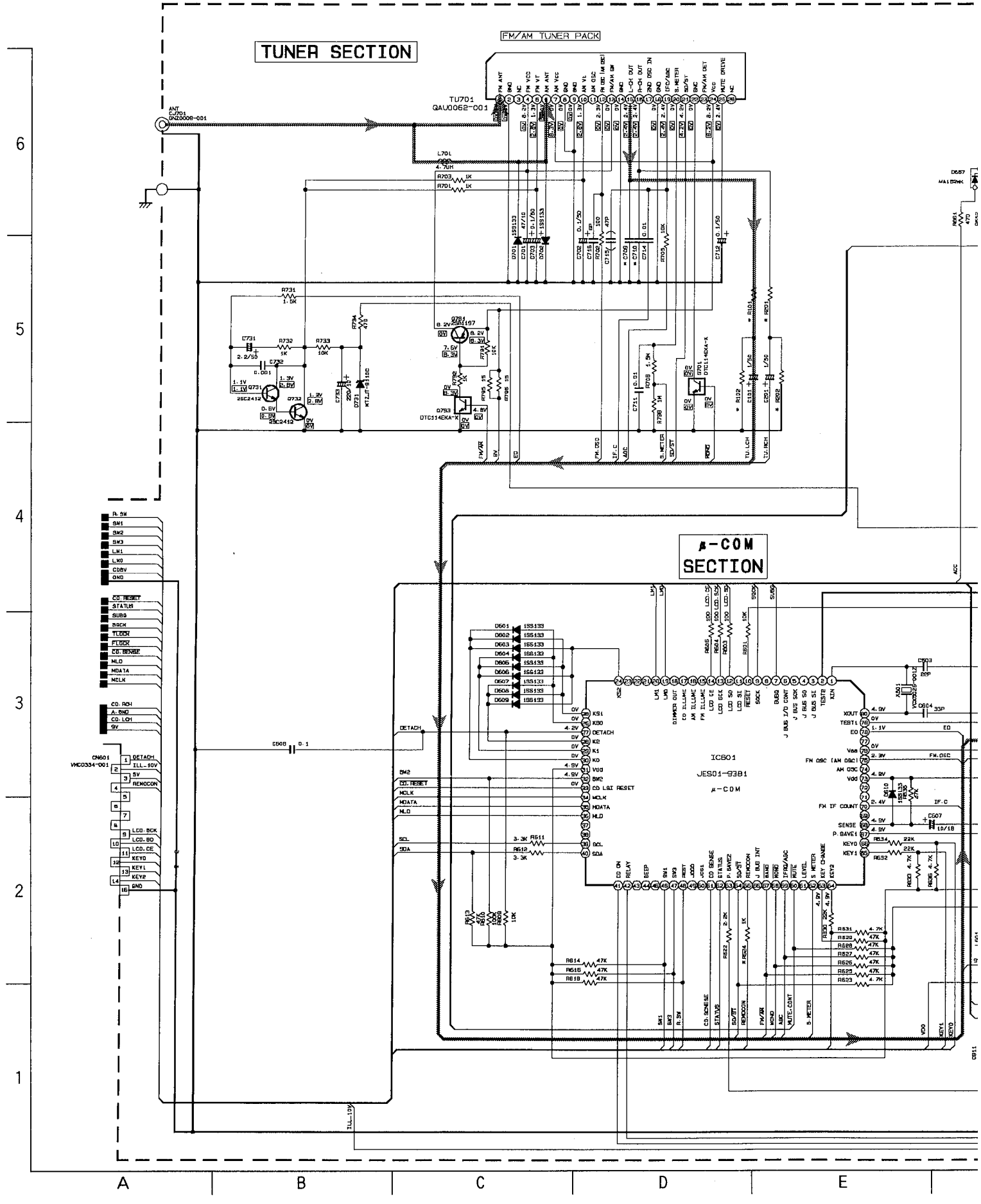


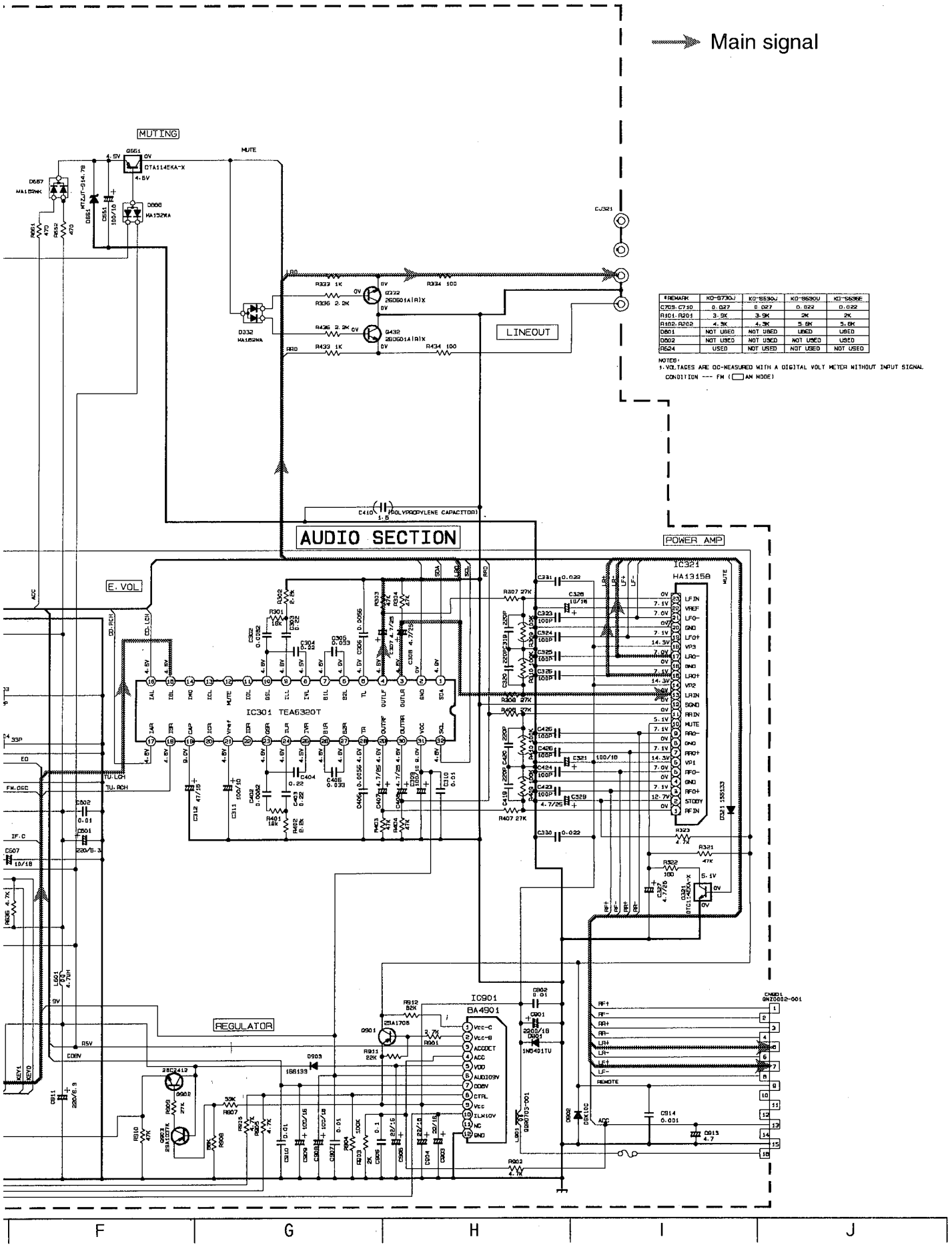


CD SECTION
Main signal
IC561
MN35510
DIGITAL SERVO
DIGITAL SIGNAL PROCESSOR
D/A CONVERTER
IC542
BA6218
LOADING DRIVER
IC151
NJM4565M
CD LPF
OP-AMP
R-CH
L-CH
DSP.LCH
DSP.GND
DSP.RCH
CD.RCH
A.GND
CD.LCH

F	G	H	I	J

■ Display Control Circuit

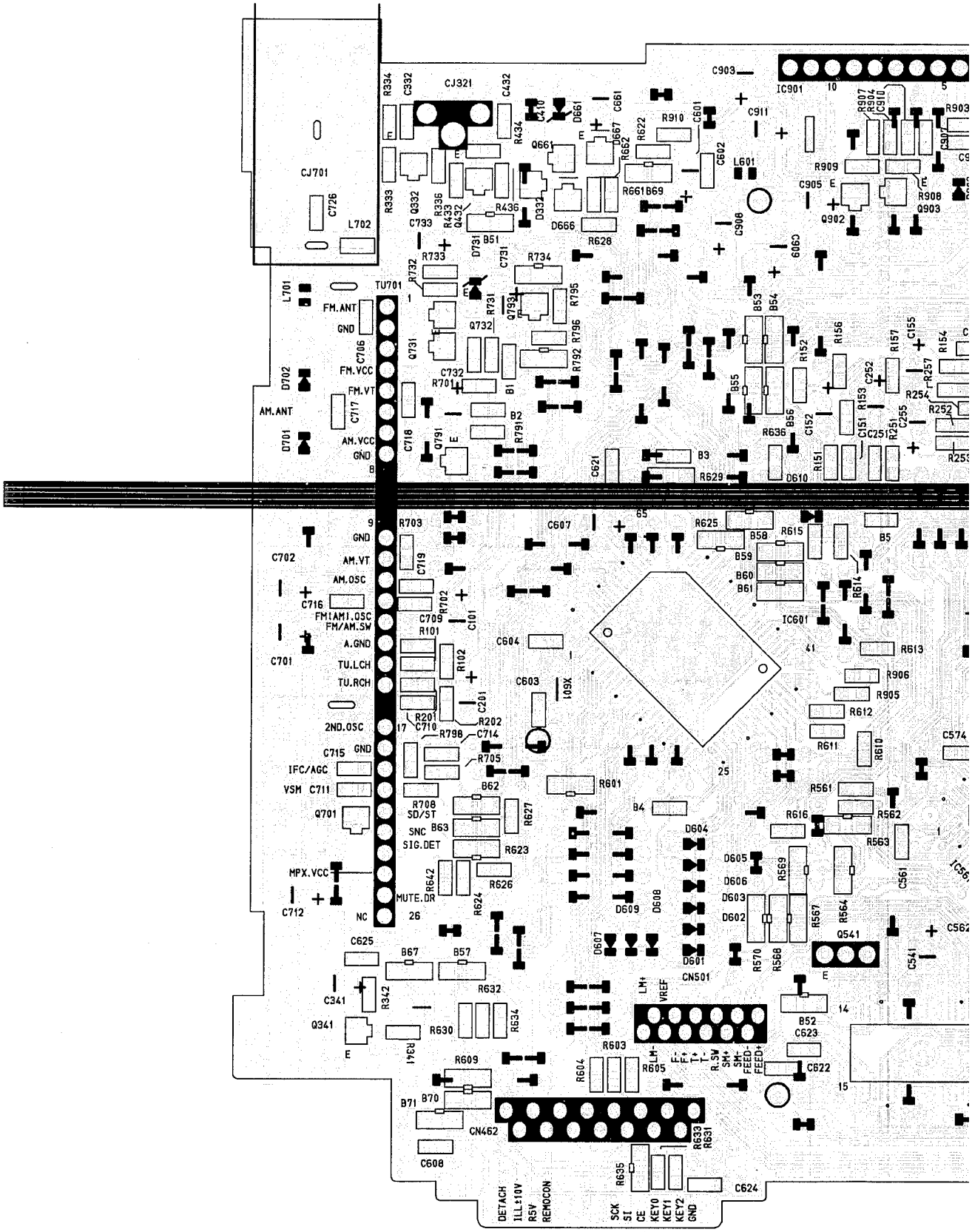




*REMARK	KD-S730J	KD-S630J	KD-S630U	KD-S636E
C709-C710	0.027	0.027	0.022	0.022
R101-R201	3.9K	3.9K	2K	2K
R102-R202	4.3K	4.3K	5.6K	5.6K
D601	NOT USED	NOT USED	USED	USED
D602	NOT USED	NOT USED	NOT USED	USED
R624	USED	NOT USED	NOT USED	NOT USED

NOTES:
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- FM (□AM MODE)

■ Main Board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L702
TU701
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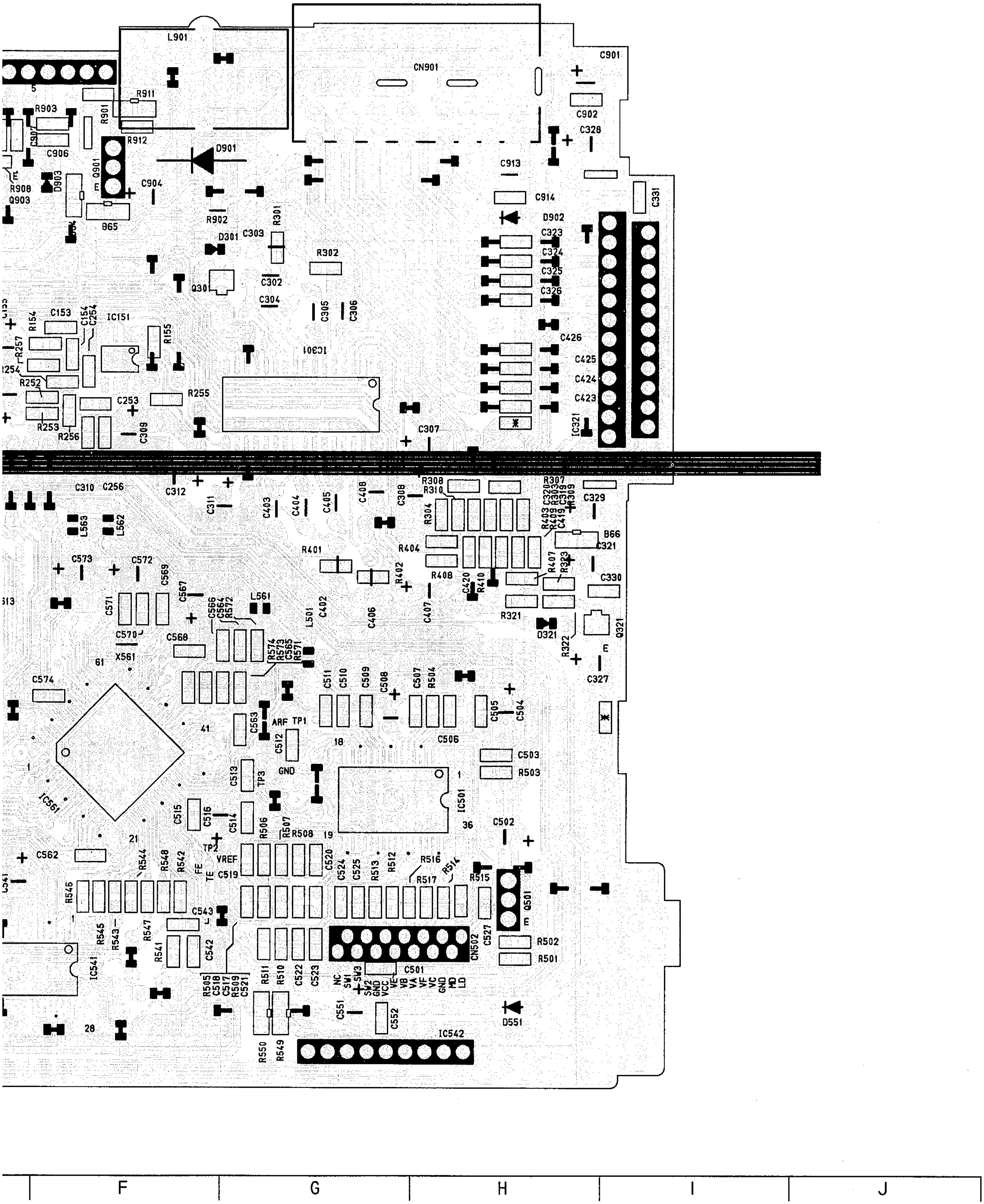
GND
FM.VCC
FM.VT
AM.ANT
AM.VCC
GND
AM.VT
AM.OSC
FM(AM).OSC
FM/AM.SW
A.GND
TU.LCH
TU.RCH
2ND.OSC
GND
IFC/AGC
VSM
MPX.VCC
MUTE.DR
NC
SD/ST
SNC
SIG.DET
IC601
IC901
CN501
CN462
Q541
DETACH
ILL+10V
R5V
REMOCON
SCK
SI
CE
KEY0
KEY1
KEY2
GND
LM+
VREF
F-
F+
T-
T+
R.SW
SM+
SM-
FEED-
FEED+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CN901
C901
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D901
Q901
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C904
B65
R902
D301
C303
R301
C913
C914
D902
C331
C323
C324
C325
C326
R302
Q301
C302
C304
C305
C306
C153
R154
C154
C254
IC151
R155
R257
R254
R252
R253
R256
C253
R255
C309
IC301
C426
C425
C424
C423
IC321
C307
C310
C256
C312
C311
C403
C404
C405
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R407
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D321
Q321
R322
C327
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R573
C565
R571
X561
C574
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C510
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C508
C507
R504
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IC541
R505
C518
C517
R509
C521
R511
R510
C522
C523
C501
NC
SW1
SV3
SW2
GND
VCC
VE
VB
VA
VF
VC
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MD
LD
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IC542
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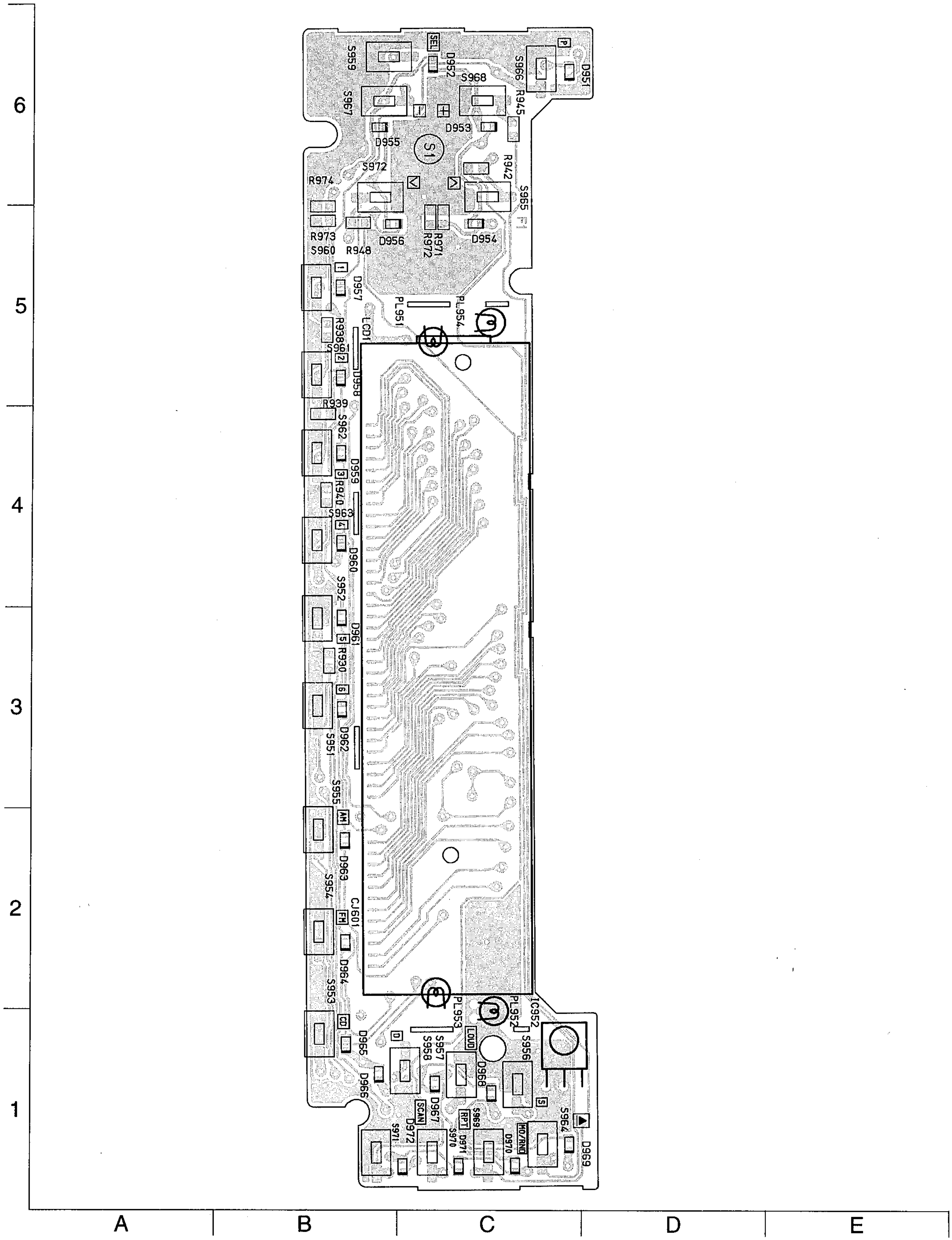
R549
F
G
H
I
J

■ Front Board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S967
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S965
R973
D956
R971
R972
D954
S960
R948
1
D957
PL951
PL954
LCD1
R938
S961
2
D958
R939
S962
D959
3
R940
S963
4
D960
S952
D961
5
R930
6
D962
S951
S955
AM
D963
S954
CJ601
FM
D964
S953
PL953
PL952
IC952
CD
D965
D
S957
S958
LOUD
S956
D968
D966
D967
SCAN
RPT
S969
D971
MO/RND
S
S964
D969
S971
D972
S970
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6
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A
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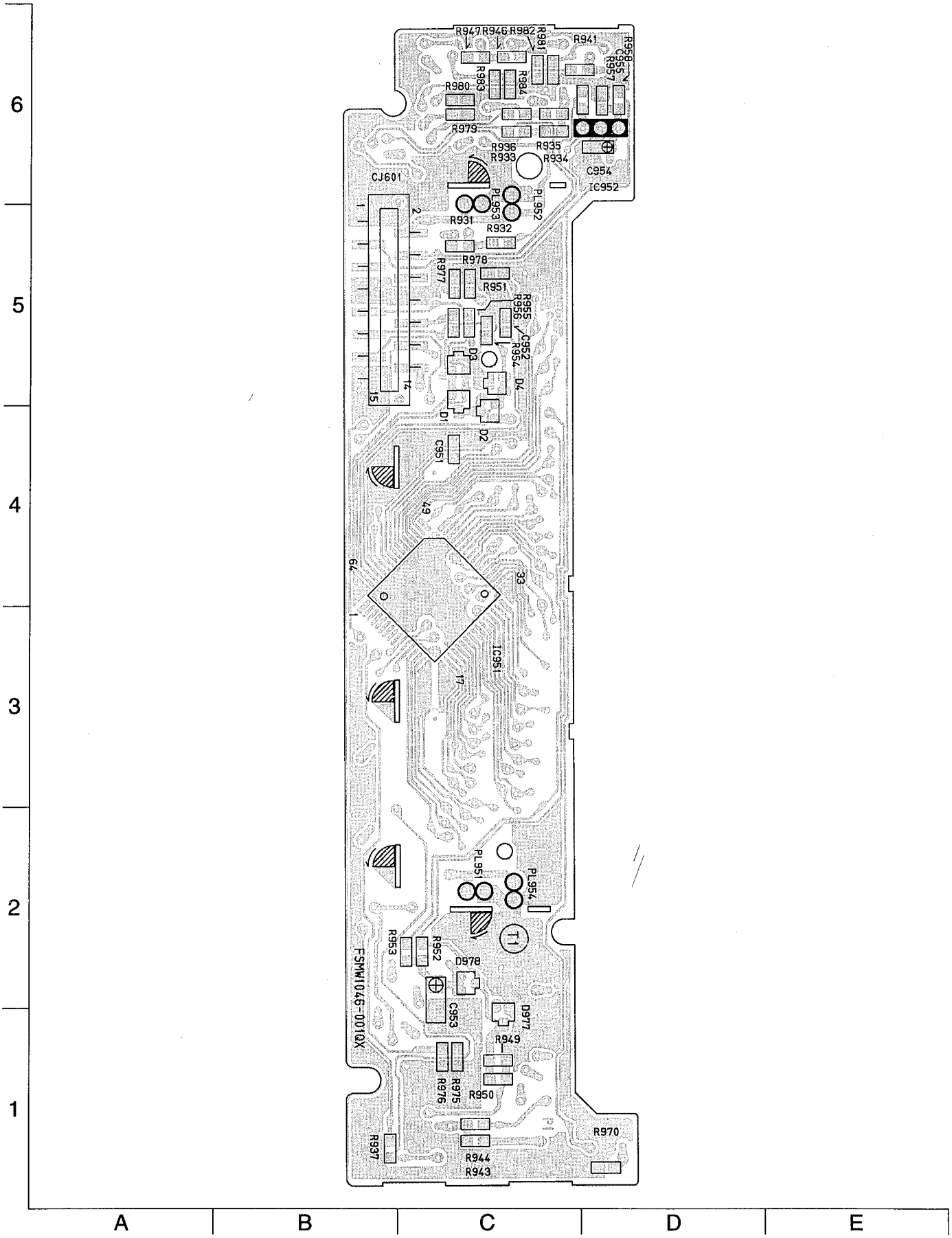
D
E

■ Front Board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R934
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CJ601
PL953
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R932
R978
R977
R951
R955
R956
C952
R954
D3
D4
D1
D2
C951
IC951
PL951
PL954
R953
R952
D978
C953
D977
R949
R975
R976
R950
R970
R937
R944
R943
FSMM1046-0010X
A
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2
3
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5
6

PARTS LIST

[KD-S636]

* All printed circuit boards and its assemblies are not available as service parts.

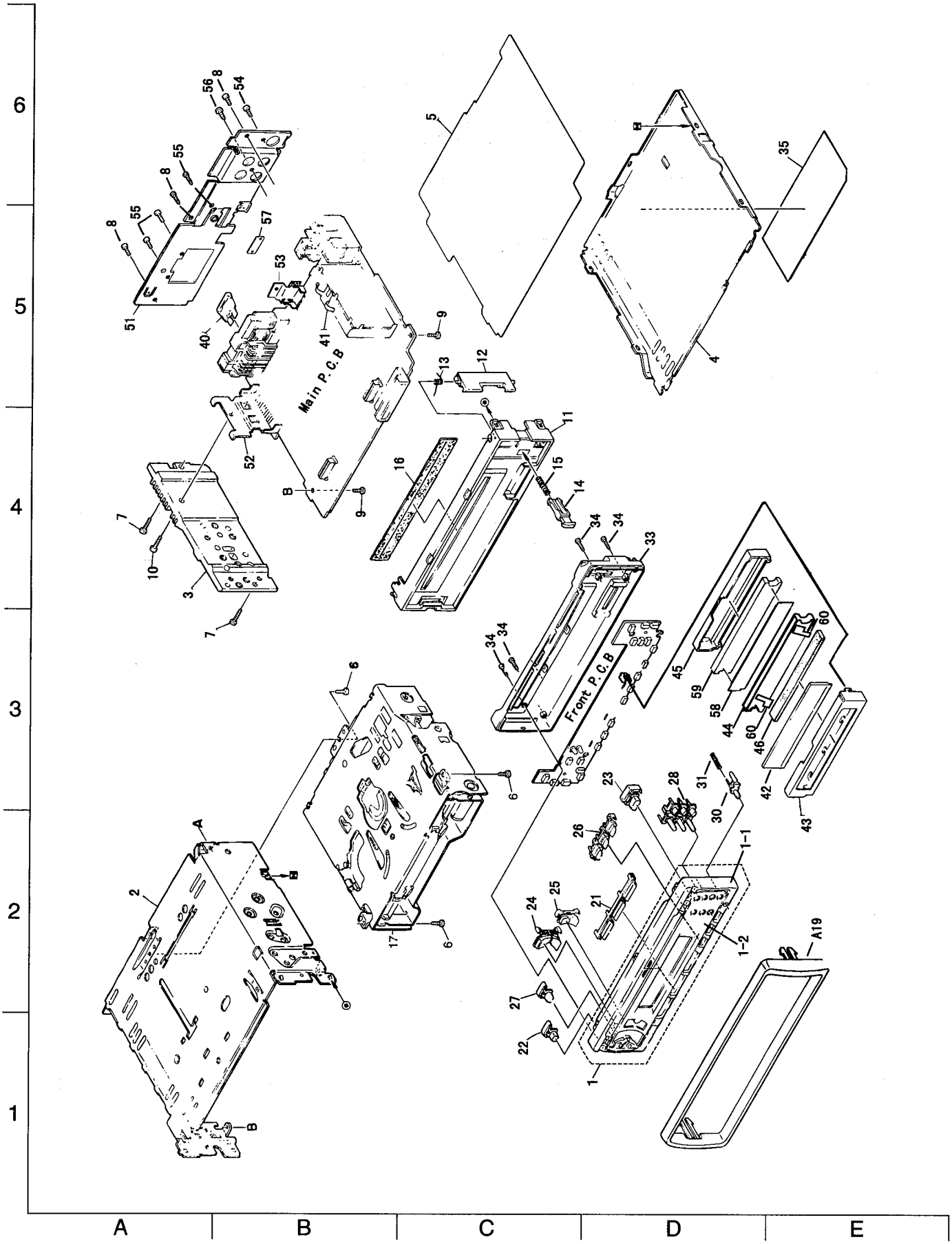
The Marks for Designated Areas

E ---- Continental Europe

- Contents -

General Exploded View and Parts List

Block No. M1MM

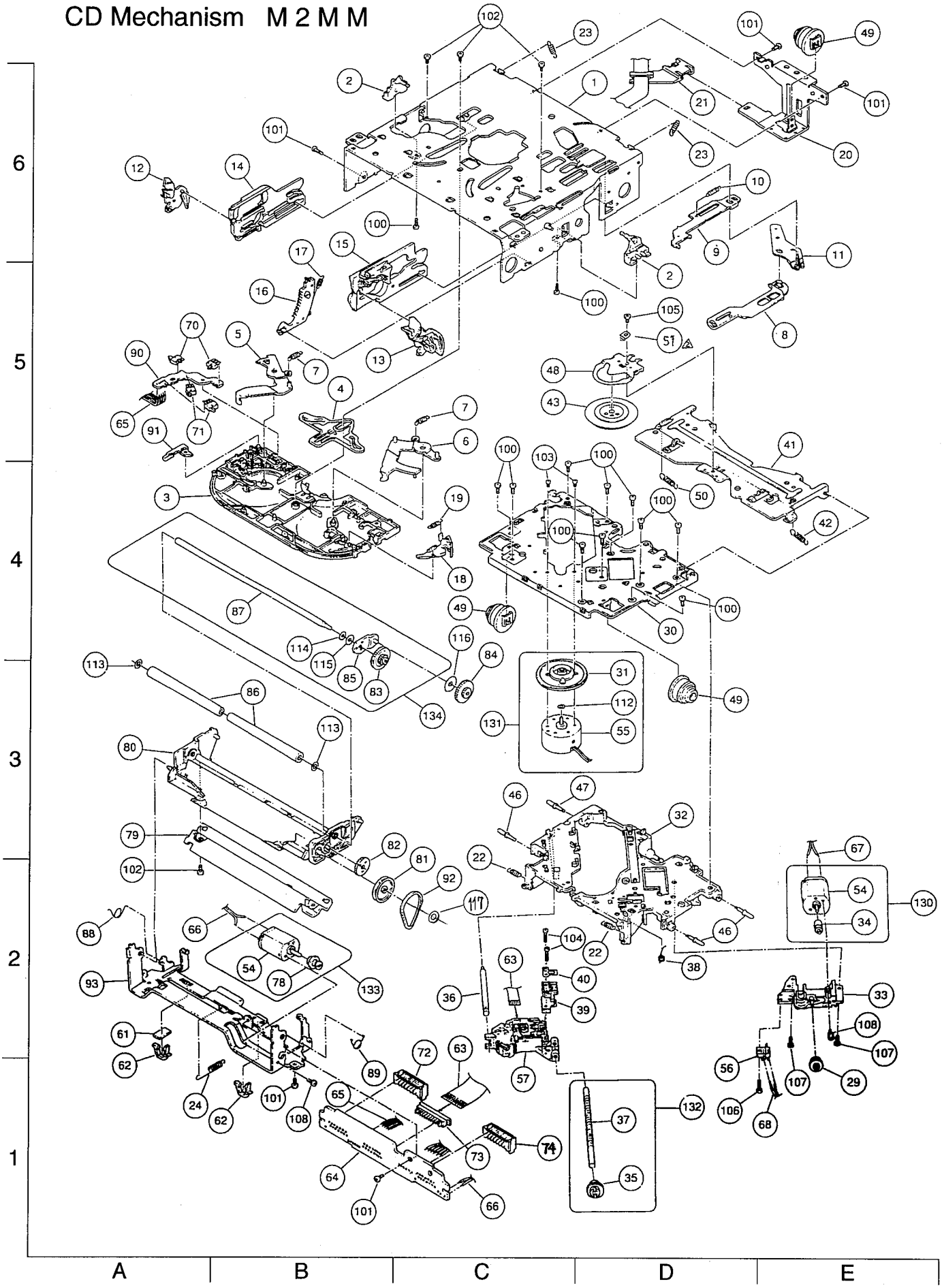


■ Parts List

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	ZCKDS636E-NPA	NOSE PIECE		1		
	1-1	FSJC1034-001	FRONT PANEL		1		
	1-2	FSJD3010-00D	FINDER ASSY		1		
	2	FSJC1029-001	TOP CHASSIS		1		
	3	FSMH3001-002	HEAT SINK		1		
	4	FSKM3011-001	BOTTOM COVER		1		
	5	FSMA3004-003	INSULATOR		1		
	6	SDST2604Z	SCREW	CHASSIS+MECHA B	3		
	7	FSKZ4005-001	SCREW	CHASSIS+SIDE PA	2		
	8	SDST2606Z	SCREW	CHASSIS+REAR BK	3		
	9	SDST2606Z	SCREW	CHASSIS+MAIN PW	2		
	10	FSKZ4005-001	SCREW	SIDE PANEL+IC B	1		
	11	FSJC2010-002	FRONT CHASSIS		1		
	12	FSKS3004-001	LOCK LEVER		1		
	13	FSKW4005-003	TORSION SPRING	FOR LOCK LEVEL	1		
	14	FSXP3026-002	RLS KNOB		1		
	15	FSKW3002-004	COMP.SPRING		1		
	16	FSPK3009-001	BLIND		1		
	17	----------	CD MECHA		1		
	21	FSXP2025-001	PRESET BUTTON		1		
	22	FSXP3044-001	POWER BUTTON		1		
	23	FSXP3043-001	EJECT BUTTON		1		
	26	FSXP2029-002	D.FUNC BUTTON		1		
	28	FSXP2030-001	PUSH BUT(SLANT)	6-IN-1	1		
	30	FSXP3049-001	DETACH BUTTON		1		
	31	FSKW3002-008	COMP.SPRING	FOR DETACH BUTT	1		
	33	FSJC1035-001	REAR COVER		1		
	34	VKZ4777-001	MINI SCREW	FRONT+REAR	4		
	35	FSYN3039-005	NAME PLATE		1		
	40	QMFZ021-100-J1	FUSE		1		
	41	VMA4652-001SS	EARTH PLATE		1		
	42	QLD0036-001	LCD MODULE		1		
	43	FSYH3013-001	LCD CASE		1		
	44	FSJK3018-001	LCD LENS(FRONT)		1		
	45	FSKS3006-001	LENS CASE		1		
	46	QNZ0089-001	RUBBER CONNE		1		
	51	FSKM3010-003	RIAR BRACKET		1		
	52	FSKL4018-00A	IC BRACKET		1		
	53	FSKL4015-001	REG BRACKET		1		
	54	SDST2606Z	SCREW	"FOR ANT"	1		
	55	SDST2606Z	SCREW	"16P & TR BRACK	3		
	56	SDSF3006Z	SCREW	"LINE OUT"	1		
	57	FSKL4014-001	HEAT SINK		1		
	58	FSYH4047-001	SHEET		1		
	59	FSJK3019-001	LCD LENS(REAR)		1		
	60	FSYT4007-001	BLIND		2		

CD Mechanism M 2 M M



■ Parts List

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	30310101T	FRAME		1		
	2	30310103T	DANPER PIN		2		
	3	30310107T	UPPER PLATE		1		
	4	30310108T	SEL STOP PLATE		1		
	5	30310109T	SEL ARM (L)		1		
	6	30310110T	SEL ARM (R)		1		
	7	30310133T	S ARM SPRING		2		
	8	30310112T	TRIG LEVER		1		
	9	30310114T	TRIG PLATE		1		
	10	30310115T	TRIG PL SPRING		1		
	11	30310116T	TRIG ARM		1		
	12	30310117T	FIX ARM (L)		1		
	13	30310118T	FIX ARM (R)		1		
	14	30310119T	FIX PLATE (L)		1		
	15	30310120T	FIX PLATE (R)		1		
	16	30310121T	LDG GEAR (6)		1		
	17	30310122T	LDG GEAR (6)SP		1		
	18	30310124T	S.L ARM		1		
	19	30310125T	S.L ARM SPRING		1		
	20	30310126T	REAR DAM BKT(J)		1		
	21	30310127T	FPC GUIDE		1		
	22	30310128T	HUNG UP SP (F)		2		
	23	30310129T	HUNG UP SP (R)		2		
	24	30310130T	LEVEL SPRING		1		
	29	30300510T	PU GEAR(B)		1		
	30	30310501T	TTB		1		
	31	---------	TURN TABLE	D	1		
	32	30310503T	FMB		1		
	33	30310504T	FD GR BRACKET		1		
	34	---------	FD GEAR (A)		1		
	35	---------	FD GEAR (C)	D	1		
	36	30310538T	PU SHAFT		1		
	37	---------	FD SCREW	D	1		
	38	30310510T	THRUST SPRING		1		
	39	30310511T	PU M NUT		1		
	40	30310512T	NUT PUSH SPR PL		1		
	41	30310513T	CLP ARM		1		
	42	30310514T	CLP ARM SPRING		1		
	43	30310515T	CLAMPER		1		
	46	30310521T	LOCK PIN		3		
	47	30310522T	LOCK PIN BL		1		
	48	30310523T	CLAMPER PLATE		1		
	49	30310524T	DAMPER (J)		3		
	50	30310525T	CLP ARM SPR (L)		1		
	51	30310536T	STOPPER SPRING		1		
	54	---------	FEED MOTOR	FF030PK-09210	2		
	55	---------	SPINDLE MOTOR	D	1		
	56	64180404T	DET SWITCH	ESE11HS2	1		
	57	OPTIMA-720A1	CD.PICK UNIT		1		
	61	11050210T	FELT		1		
	62	19501403T	WIRE CLAMPER		2		
	63	30311019T	PICK UP FPC(J)		1		
	64	30311018T	CONNECTER PCB(J		1		
	65	30311022T	WIRE (5P-J)		1		

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	66	30311023T	WIRE (LD-J)		1		
	67	30311006T	WIRE (FD)		1		
	68	30311007T	WIRE (RS)		1		
	70	64180402T	DET SWITCH	ESE22MH1	2		
	71	64180403T	DET SWITCH	ESE22MH3	2		
	72	68150235T	CONNECTOR	TKC-F14P-J3	1		
	73	68170224T	CONNECTOR(15P)	6208010115	1		
	74	68150237T	CONNECTOR(12P)		1		
	78	---------	LDG PULLEY	D	1		
	79	30311105T	SOPPORT PLATE		1		
	80	30311108T	GR MT BLK		1		
	81	30311109T	LDG GEAR (2)		1		
	82	30311110T	LDG GEAR (3)		1		
	83	---------	LDG GEAR (4)	D	1		
	84	30311112T	LDG GEAR (5)		1		
	85	---------	LDG GR ARM	D	1		
	86	30311114T	LDG ROLLER		2		
	87	--------	LDG RLR SHAFT	D	1		
	88	30311118T	L.P SPRING (L)		1		
	89	30311119T	L.P SPRING (R)		1		
	90	30311123T	SW PCB		1		
	91	30311124T	SW ACTUATOR		1		
	92	30311129T	LDG BELT		1		
	93	30311130T	FRONT BRKT (J)		1		
	100	9C0620503T	C B TAP SCREW	M2X5	12		
	101	9C2020401T	C SCREW TS.G	M2X4	5		
	102	9C4320403T	C B TAP SCREW	M2X4	4		
	103	9C0117223T	SCREW	M1.7X2.2	2		
	104	9C0317803T	C SCREW	M1.7X8	2		
	105	9C4220201T	C TAP SCREW S3	M2X2	1		
	106	9C4420003T	C TAP SCREW B3	M2X10	1		
	107	9C4420503T	C TAP SCREW B3	M2X5	2		
	108	9P0220031T	TAMS SCREW	M2X4	2		
	112	---------	POLY WASHER	D	1		
	113	9W0330276T	POLY WASHER	2.9X5X0.3	2		
	114	---------	WAVE WASHER	D	1		
	115	---------	LUMILAR WASHER	D	1		
	116	9W0725030T	LUMILAR WASHER		1		
	117	9W0640030T	WASHER		1		
	130	303105301T	FFED MOTOR ASSY	NO.34,54	1		
	131	303105302T	SP MOTOR ASSY	NO.31,55,112	1		
	132	303105303T	FEED SCREW ASSY	NO.35,37	1		
	133	303111301T	LDG MOTOR ASSY	NO.54,78	1		
	134	303111302T	RDG RLR SFT ASY	NO.83,85,87	1		
				NO.114,115	1		

■ Electrical Parts List (Main P. C. B.)

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 101	QER41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 151	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C 152	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 153	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
	C 154	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
	C 155	QEKF0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C 201	QER41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 251	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
	C 252	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 253	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
	C 254	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
	C 255	QEKF0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C 256	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 302	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 303	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 304	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 305	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 306	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
	C 307	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 308	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 309	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 310	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 311	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 312	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 319	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 320	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 321	QERF1CM-107ZM	E.CAPACITOR	100MF 20% 16V	
	C 323	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 324	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 325	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 326	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 327	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 328	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 329	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 330	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 331	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 402	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 403	QFV11HJ-154AZM	FILM CAPACITOR	.15MF 5% 50V	
	C 404	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 405	QFV41HJ-333	FILM CAPACITOR	.033MF 5% 50V	
	C 406	QFLA1HJ-562ZM	M.CAPACITOR	5600PF 5% 50V	
	C 407	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 408	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 419	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 420	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 423	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 424	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 425	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 426	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 501	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 502	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 503	NCS21HJ-680AY	C CAPACITOR	68PF 5% 50V	
	C 504	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 505	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 506	NCT21CH-3R0AY	C CAPACITOR	3.0PF +50:-10%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 507	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
	C 508	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 509	NCT21CH-101AY	C CAPACITOR	100PF +50:-10%	
	C 510	NCB21HK-273AY	C CAPACITOR	.027MF 10% 50V	
	C 511	NCB21HK-472AY	C CAPACITOR	4700PF 10% 50V	
	C 512	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 513	NCT21CH-331AY	C.CAPACITOR	330PF +50:-10%	
	C 514	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
	C 515	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 516	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 517	NCS21HJ-821AY	C CAPACITOR	820PF 5% 50V	
	C 518	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 519	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 520	NCT21CH-470AY	C CAPACITOR	47PF +50:-10% 1	
	C 521	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
	C 522	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 523	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 524	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 525	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 527	NCB21HK-223AY	C CAPACITOR	.022MF 10% 25V	
	C 541	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 542	NCB21HK-273AY	C CAPACITOR	.027MF 10% 50V	
	C 543	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 551	QER41AM-227N	E.CAPACITOR	220MF 20% 10V	
	C 552	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 561	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 562	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 563	NCB21HK-471AY	C CAPACITOR	470PF 10% 50V	
	C 564	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 565	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 566	NCB21CK-334AY	C CAPACITOR	.33MF 10% 16V	
	C 567	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 568	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 569	NCT21CH-100AY	C CAPACITOR	10PF +50:-10% 1	
	C 570	NCT21CH-100AY	C CAPACITOR	10PF +50:-10% 1	
	C 571	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 572	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 573	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 574	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 601	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 602	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 603	NCT21CH-220AY	C CAPACITOR	22PF +50:-10% 1	
	C 604	NCT21CH-330AY	C CAPACITOR	33PF +50:-10% 1	
	C 607	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 608	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
	C 661	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 701	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 702	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 703	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 709	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 710	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 711	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 712	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 714	NCB21HK-103AY	C CAPACITOR	.010MF 10% 25V	
	C 716	NCS21HJ-6R0AY	C.CAPA.C.M	6.0PF 5% 50V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 731	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 732	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 733	QER41AM-227N	E.CAPACITOR	220MF 20% 10V	
	C 901	QEZ0337-228	E CAPACITOR	2200MF	
	C 902	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 903	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 904	QER41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 905	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 906	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
	C 907	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 908	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 909	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 910	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 911	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 914	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	CJ321	VMJ3022-001	PIN JACK		
	CJ701	QNZ0009-001	CAR ANT JACK		
	CN501	VMC0314-S12	CONNECTOR		
	CN502	VMC0314-S14	CONNECTOR		
	CN601	VMC0334-001	CONNECTOR		
	CN901	QNZ0002-001	16P CONNECTOR		
	D 301	1SS133	SI DIODE		
	D 321	1SS133	SI DIODE		
	D 332	MA152WA-TX	DIODE		
	D 551	DSK10C-E	DIODE		
	D 601	1SS133	SI DIODE		
	D 602	1SS133	SI DIODE		
	D 610	1SS133	SI DIODE		
	D 661	MTZ4.7JB	ZENER DIODE		
	D 666	MA152WA-TX	DIODE		
	D 667	MA152WK-TX	SI DIODE		
	D 701	1SS133	SI DIODE		
	D 702	1SS133	SI DIODE		
	D 731	MTZ10JC	Z.DIODE I.M		
	D 901	1N5401TU-15	DIODE		
	D 902	DSK10C-E	DIODE		
	D 903	1SS133	SI DIODE		
	D 904	QEPC1EM-475ZM	NP.E.CAPACITOR	4.7MF 20% 25V	
	IC151	NJM4565M	IC		
	IC301	TEA6320T	IC		
	IC321	HA13158	IC		
	IC501	AN8806SB	IC C.M		
	IC541	BA6898FP-X	IC		
	IC542	BA6218	IC		
	IC561	MN35510-S	IC		
	IC601	JES01-9381	IC		
	IC901	BA4901-V3	IC		
	L 501	VQP0018-4R7	INDUCTOR		
	L 561	VQP0018-4R7	INDUCTOR		
	L 562	VQP0018-4R7	INDUCTOR		
	L 563	VQP0018-4R7	INDUCTOR		
	L 601	VQP0018-4R7	INDUCTOR		
	L 701	VQP0018-4R7	INDUCTOR		
	L 901	QQR0703-001	CHOKE COIL		
	Q 301	DTC114EKA-X	TRANSISTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 321	DTC114EKA-X	TRANSISTOR		
	Q 332	2SD601A(R)	TRANSISTOR		
	Q 432	2SD601A(R)	TRANSISTOR		
	Q 501	2SA1706/ST/-T	TRANSISTOR		
	Q 541	2SA1706/ST/-T	TRANSISTOR		
	Q 661	DTA114EKA-X	TRANSISTOR		
	Q 701	DTC114EKA-X	TRANSISTOR		
	Q 731	2SC2412KK1	TRANSISTOR		
	Q 732	2SC2412KK1	TRANSISTOR		
	Q 791	2SB1197K(Q,R)-X	TRANSISTOR		
	Q 793	DTC114EKA-X	TRANSISTOR		
	Q 901	2SA1706/ST/-T	TRANSISTOR		
	Q 902	2SC2412KK1	TRANSISTOR		
	Q 903	2SA1037AK(RS)-X	CHIP TR.C.M		
	R 101	NRSA02J-202NY	CARBON RESISTOR	2.0K 5% 1/10W	
	R 102	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 151	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 152	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 153	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 154	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 155	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 156	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 157	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 201	NRSA02J-202NY	CARBON RESISTOR	2.0K 5% 1/10W	
	R 202	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 251	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 252	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 253	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 254	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 255	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 256	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 257	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 301	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	R 302	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 303	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 304	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 307	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 308	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 321	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 322	NRSA02J-181NY	MG RESISTOR	180 5% 1/10W	
	R 323	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 333	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 334	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 336	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 401	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
	R 402	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 403	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 404	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 407	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 408	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 433	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 434	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 436	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 501	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	
	R 502	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 503	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 504	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 505	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 506	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 507	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R 508	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 509	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 510	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R 511	NRSA02J-274NY	MG RESISTOR	270K 5% 1/10W	
	R 512	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R 513	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R 514	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 515	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 516	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 517	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 541	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
	R 542	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 543	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
	R 544	NRSA02J-242	MG RESISTOR	2.4K 5% 1/10W	
	R 545	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R 546	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 547	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R 548	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 549	NRS181J-2R2NY	MG RESISTOR	2.2 5% 1/8W	
	R 550	NRS181J-2R2NY	MG RESISTOR	2.2 5% 1/8W	
	R 561	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 562	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 563	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 564	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 567	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 568	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 569	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 570	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 571	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R 572	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W	
	R 573	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R 574	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 601	NRS181J-103NY	MG RESISTOR	10K 5% 1/8W	
	R 603	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 604	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 605	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 609	NRS181J-103NY	MG RESISTOR	10K 5% 1/8W	
	R 610	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 611	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 612	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 613	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 614	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 615	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 616	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 622	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 623	NRS181J-473NY	MG RESISTOR	47K 5% 1/8W	
	R 624	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 625	NRS181J-473NY	MG RESISTOR	47K 5% 1/8W	
	R 626	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 627	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 628	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 629	NRS181J-473NY	MG RESISTOR	47K 5% 1/8W	
	R 630	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 631	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 632	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 633	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 634	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 635	NRS181J-472NY	MG RESISTOR	4.7K 5% 1/8W	
	R 636	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 661	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 662	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 702	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 708	NRSA02J-155NY	MG RESISTOR	1.5M 5% 1/10W	
	R 731	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 732	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 733	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 734	NRS181J-471NY	MG RESISTOR	470 5% 1/8W	
	R 791	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 792	NRS181J-102NY	MG RESISTOR	1.0K 5% 1/8W	
	R 795	NRSA02J-150NY	MG RESISTOR	15 5% 1/10W	
	R 796	NRSA02J-150NY	MG RESISTOR	15 5% 1/10W	
	R 798	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W	
	R 901	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 902	QRD141J-472	CARBON RESISTOR	4.7K 5% 1/4W	
	R 903	NRSA02J-202NY	CARBON RESISTOR	2.0K 5% 1/10W	
	R 904	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 905	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 906	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 907	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 908	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W	
	R 909	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 910	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 911	NRS181J-223NY	MG RESISTOR	22K 5% 1/8W	
	R 912	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	TU701	QAU0062-001	TUNER		
	X 561	VCX5016-934V	CRYSTAL		
	X 601	VCX5026-001Z	CRYSTAL		

■ Electrical Parts List (Front P. C. B.)

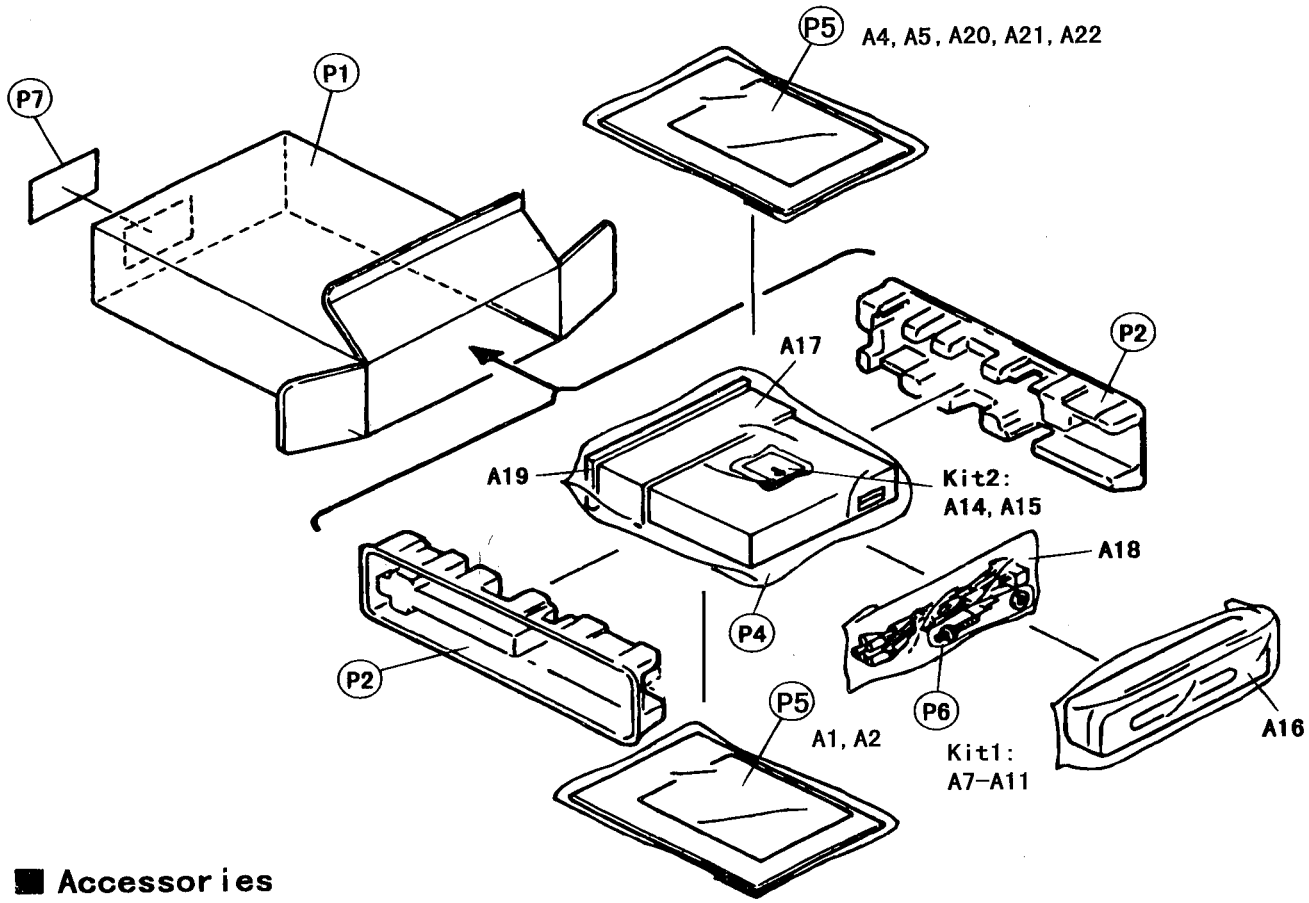
BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 951	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 952	NCS21HJ-681AY	C CAPACITOR	680PF 5% 50V	
	C 953	NEF20JM-106RY	TS.E.CAPACITOR	10MF 20% 6.3V	
	CJ601	VMC0335-001	CONNECTOR		
	D 951	SML-210LT/LM/-X	LED	"POWER LED"	
	D 952	SML-210FT/JKL/W	LED		
	D 953	SML-210FT/JKL/W	LED		
	D 954	SML-210FT/JKL/W	LED		
	D 955	SML-210FT/JKL/W	LED		
	D 956	SML-210FT/JKL/W	LED		
	D 957	SML-210FT/JKL/W	LED		
	D 958	SML-210FT/JKL/W	LED		
	D 959	SML-210FT/JKL/W	LED		
	D 960	SML-210FT/JKL/W	LED		
	D 961	SML-210FT/JKL/W	LED		
	D 962	SML-210FT/JKL/W	LED		
	D 963	SML-210FT/JKL/W	LED		
	D 964	SML-210FT/JKL/W	LED		
	D 965	SML-210FT/JKL/W	LED		
	D 966	SML-210FT/JKL/W	LED		
	D 967	SML-210FT/JKL/W	LED		
	D 968	SML-210FT/JKL/W	LED		
	D 969	SML-210FT/JKL/W	LED		
	D 970	SML-210FT/JKL/W	LED		
	D 971	SML-210FT/JKL/W	LED		
	D 972	SML-210FT/JKL/W	LED		
	D 977	MA3051(M)	ZENER DIODE		
	D 978	MA152WK-TX	SI DIODE		
	IC951	LC75823E	IC		
	PL952	QLL0024-001	PILOT LAMP		
	PL954	QLL0024-001	PILOT LAMP		
	R 930	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 931	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 932	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 933	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 934	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 935	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 936	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 937	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 938	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 939	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 940	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 941	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 942	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 943	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 944	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 945	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 946	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 947	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 948	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 949	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 950	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 951	NRSA02J-513NY	MG RESISTOR	51K 5% 1/10W	
	R 952	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R 953	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 954	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 955	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 956	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 970	NRSA02J-561NY	MG RESISTOR	560 5% 1/10W	
	R 971	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 972	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 973	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 974	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 975	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 976	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 977	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 978	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 979	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 980	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 981	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 982	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 983	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 984	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	S 951	NSW0039-001X	TACT SWITCH	"6"	
	S 952	NSW0039-001X	TACT SWITCH	"5"	
	S 953	NSW0039-001X	TACT SWITCH	"CD"	
	S 954	NSW0039-001X	TACT SWITCH	"FM"	
	S 955	NSW0039-001X	TACT SWITCH	"AM"	
	S 956	NSW0039-001X	TACT SWITCH	"SOUND"	
	S 957	NSW0039-001X	TACT SWITCH	"LOUD"	
	S 958	NSW0039-001X	TACT SWITCH	"DISPLAY"	
	S 959	NSW0039-001X	TACT SWITCH	"SELECT"	
	S 960	NSW0039-001X	TACT SWITCH	"1"	
	S 961	NSW0039-001X	TACT SWITCH	"2"	
	S 962	NSW0039-001X	TACT SWITCH	"3"	
	S 963	NSW0039-001X	TACT SWITCH	"4"	
	S 964	NSW0039-001X	TACT SWITCH	"EJECT"	
	S 965	NSW0039-001X	TACT SWITCH	"F.SKIP/UP"	
	S 966	NSW0039-001X	TACT SWITCH	"POWER"	
	S 967	NSW0039-001X	TACT SWITCH	"VOL UP"	
	S 968	NSW0039-001X	TACT SWITCH	"VOL DOWN"	
	S 969	NSW0039-001X	TACT SWITCH	"MO/RAN"	
	S 970	NSW0039-001X	TACT SWITCH	"REPEAT"	
	S 971	NSW0039-001X	TACT SWITCH	"SCAN"	
	S 972	NSW0039-001X	TACT SWITCH	"B.SKIP/DOWN"	

Packing Materials and Accessories



■ Accessories

● SCREW KIT 1

A7
Plug Nut
VKZ4027-002

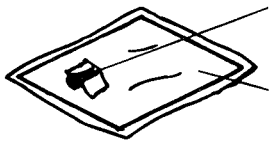
A10
Washer
WNS5000Z

A8
Mount Bolt
VKH4871-001

A11
Hook
FSKL4010-002

A9
Lock Nut
VKZ4328-001

● SCREW KIT 2



A14 Screw
VKZ4777-001

A15 Sheet
FSYA4001-001

■ Packing List

BLOCK NO. M3MM□□□

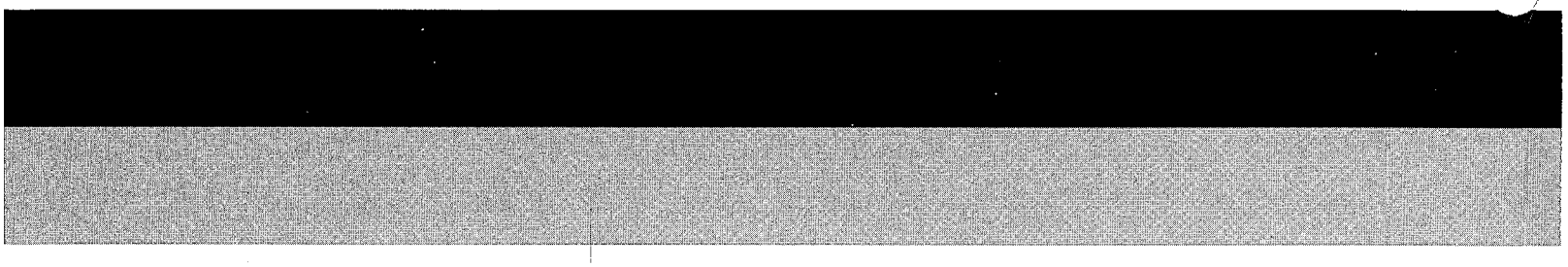
⚠	REF	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPE3001-060	CARTON		1		
	P 2	FSPH1013-001	PAPER CUSHION		2		
	P 4	VPE3005-066	POLY BAG	SET(260X440X0.0	1		
	P 5	QPA01703505P	POLY BAG	INST.BOOK	2		
	P 6	QPGA008-01205	POLY BAG		1		
	P 7	FSND3006-022	CARTON LABEL	FOR INNER CARTO	1		

■ Accessories List

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN3039-311S	INST.BOOK	EN,FR,DE,NE,	1		
	A 2	FSUN3039-321S	INST.BOOK	ES,IT,SV,	1		
	A 4	VNC2400-165	M.CAPACITOR		1		
	A 5	BT-54008-1	W.CARD		1		
	A 7	VKZ4027-002	PLUG NUT		1		
	A 8	VKH4871-001	MOUNT BOLT		1		
	A 9	VKZ4328-001	LOCK NUT	FOR M5	1		
	A 10	WNS5000Z	WASHER		1		
	A 11	FSKL4010-002	HOOK		2		
	A 14	VKZ4777-001	MINI SCREW		1		
	A 15	FSYA4001-001	SHEET		1		
	A 16	FSJB3001-00A	HARD CASE		1		
	A 17	FSKM2004-001	MOUNTING SLEEVE		1		
	A 18	QAM0089-001	16P CORD ASSY		1		
	A 19	FSJD2019-002	TRIM PLATE		1		
	A 20	FSUN3039-T451S	INSTALL MANUAL	NE,ES,IT,	1		
	A 21	FSUN3039-T211S	INSTALL MANUAL	EN,DE,FR,	1		
	A 22	FSUN3039-T481S	INSTALL MANUAL	SV,SU,	1		
	KIT 1	KDGS717K-SCREW1	SCREW PARTS KIT	A7-A11	1		
	KIT 2	KDGS727J-SCREW2	SCREW PARTS KIT	A14-A15	1		

<<MEMO>>



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