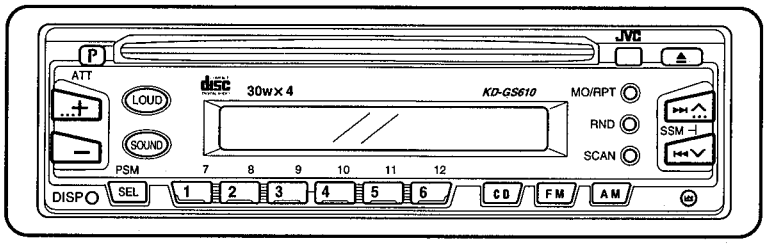
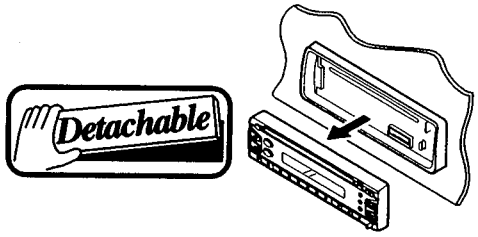
JVC

SERVICE MANUAL

CD RECEIVER

KD-GS610 C/J





COMPACT disc DIGITAL AUDIO

This Service manual have not Instructions and Location of Main Parts, Block Diagram . These item should be used in conjunction with service manual for KD-GS620C/J (Issue No. 49411).

Area Suffix

C ..... Canada
J ..... U.S.A.

Contents

No. 49407
January 1997

1. Safety Precautions

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

2. Removal of Main Parts

■ **Detaching the front panel unit**

(See Fig. 2-1)

Slide the Release switch in the direction of arrow to detach the front panel unit.

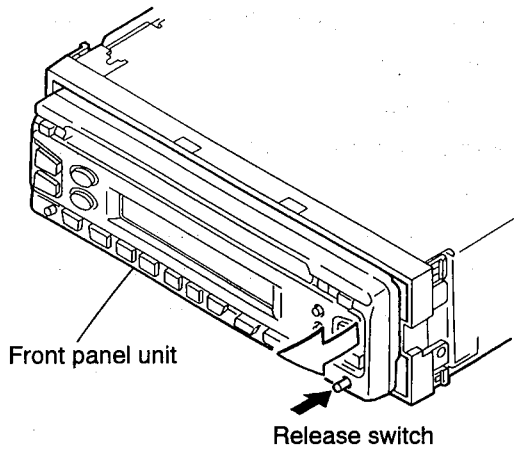


Fig. 2-1

■ **Removing the front chassis**

(See Fig. 2-2)

1. Remove two ribs in the right side of unit and pull the front chassis forward to remove it.
2. Remove two ribs in the left side of unit and pull the front chassis foward to remove it.

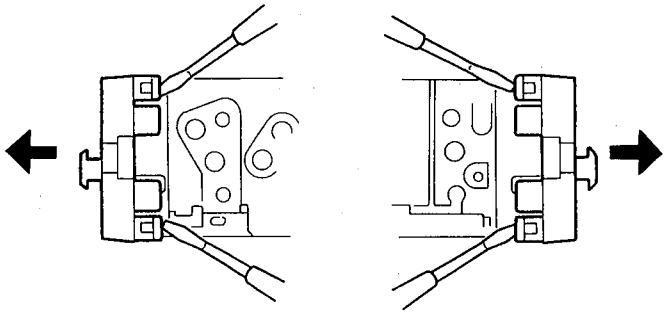


Fig. 2-2

■ **Removing the heat sink (See Fig. 2-3)**

1. Turn the left side unit.
2. Remove three screws ① retaining the heat sink.

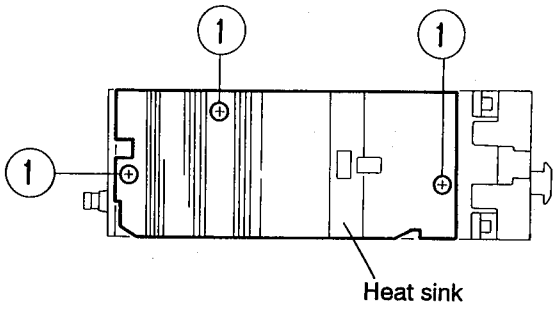


Fig. 2-3

■ **Removing the bottom cover**

(See Fig. 2-4)

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

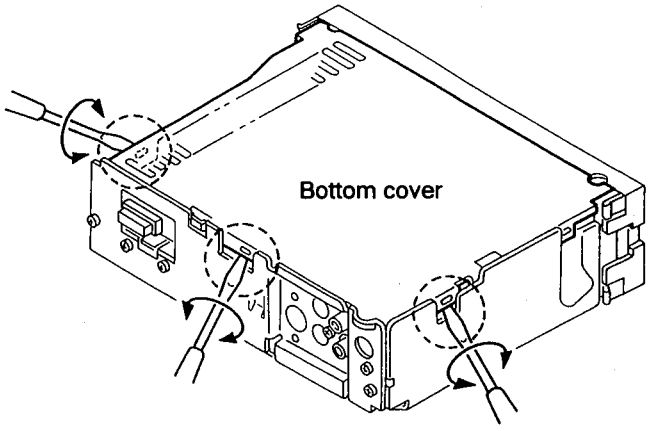


Fig. 2-4

■ **Removing the main board**

(See Fig. 2-5, 2-6)

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

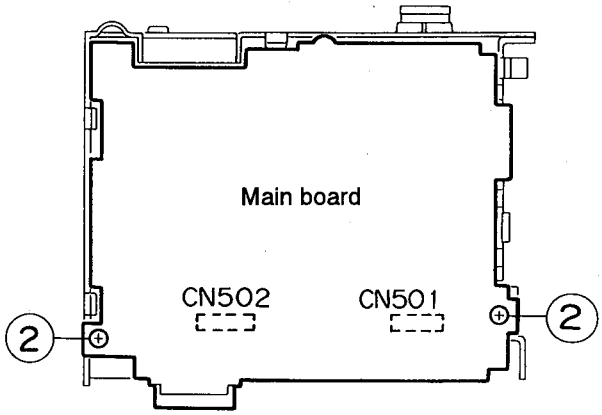


Fig. 2-5

■ **Removing the CD mechanism assembly**

(See Fig. 2-7)

Remove three screws ④ retaining the CD mechamism assembly from the top cover.

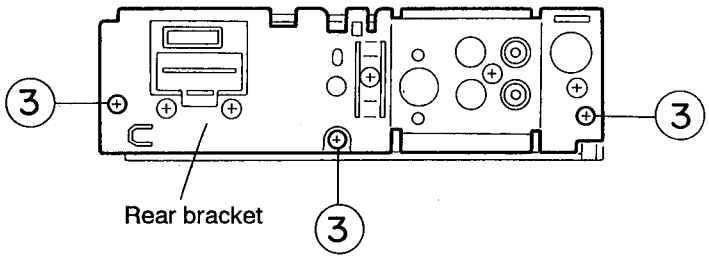


Fig. 2-6

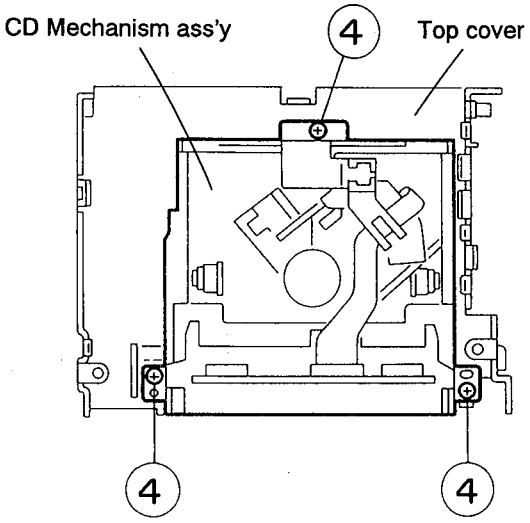


Fig. 2-7

■ **Removing the operation switch board**

(See Fig. 2-8, 2-9)

1. Turn the front panel unit upside down then.
2. Remove four screws ⑤ retaining the rear cover.
3. Take the operation switch board off on the front panel.

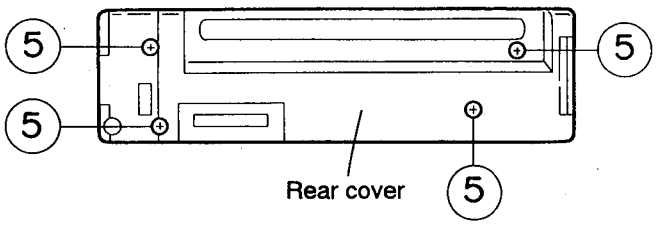


Fig. 2-8

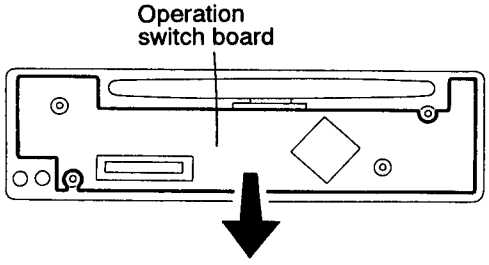


Fig. 2-9

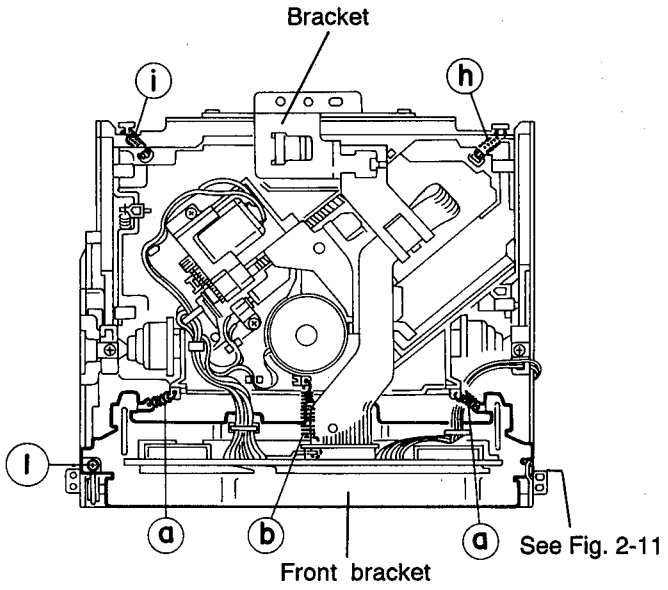


Fig. 2-10

《CD Mechanism Section》

■ Removing the CD mechanism control P. C. board

1. Remove the bottom cover (See "Removing the bottom cover").

2. Remove the front panel assembly (See "Removing the front panel assembly").

3. Remove the main amplifier P. C. board assembly (See "Removing the main amplifier P. C. board assembly").

4. Remove the CD mechanism assembly (See "Removing the CD mechanism assembly").

5. Remove the three springs ⓐ and ⓑ from behind the CD mechanism assembly (See Fig. 2-10).

6. Disconnect the flexible wire connected to the connector on the CD mechanism control P. C. board (See Fig. 2-11).

   CAUTION: Whenever the flexible wire is disconnected, be sure to remove the soldering in advance as shown in Fig. 2-11. Otherwise, the CD mechanism assembly can possibly be damaged.

7. Remove the two screws ① retaining the front bracket for fixing the CD mechanism control P. C. board (See Fig. 2-12).

   CAUTION: Remove the front bracket from the frame while expanding both sides of the frame as shown in Fig. 2-13.

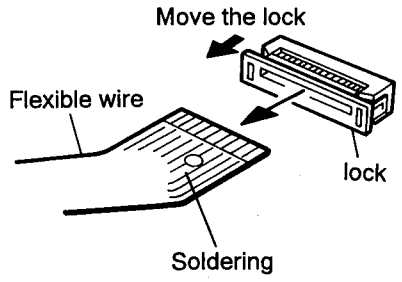


Fig. 2-11

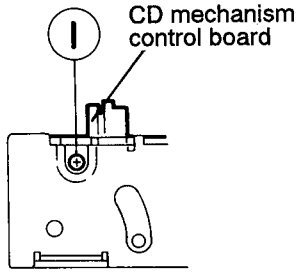


Fig. 2-12

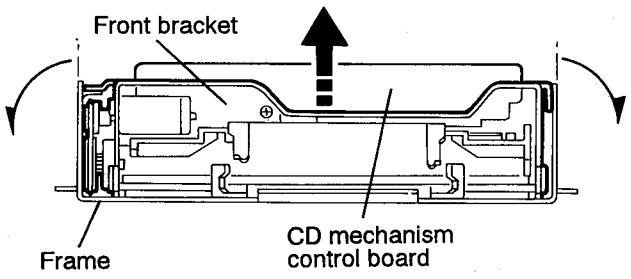


Fig. 2-13

8. Remove the one screw ② retaining the CD mechanism control P. C. board (See Fig. 2-14).

9. After disengaging the engagement between the notch section ⓒ and frame, remove the CD mechanism control P. C. board successively from arrow ① through to arrow ③ in the arrow direction as shown in Fig. 2-14.

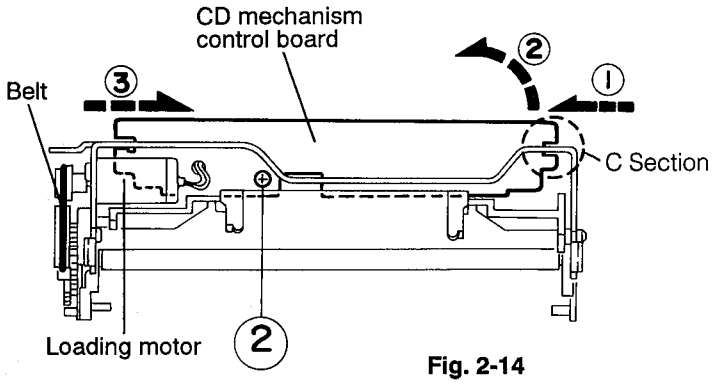


Fig. 2-14

■ Removing the loading motor

1. Remove the belt from the loading motor (See Figs. 2-14 and 2-15).

2. Remove the one screw ③ retaining the loading motor (See Fig. 2-15).

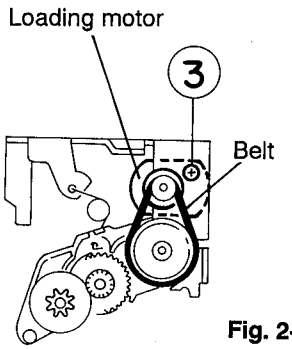


Fig. 2-15

■ Removing the CD mechanism assembly

1. Remove the two screws ④ retaining the bracket for fixing the damper (See Fig. 2-16).

2. While shifting the fix plates 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 Figs. 2-17 and 2-18, 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 Figs. 2-10, 2-17 and 2-18).

3. Remove the two springs ⓗ and ⓘ as shown in Fig. 2-10,16.

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.

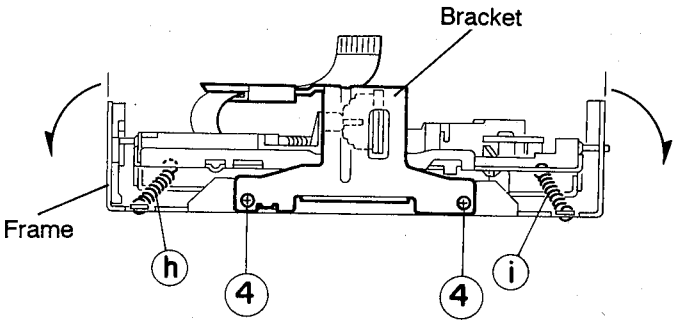


Fig. 2-16

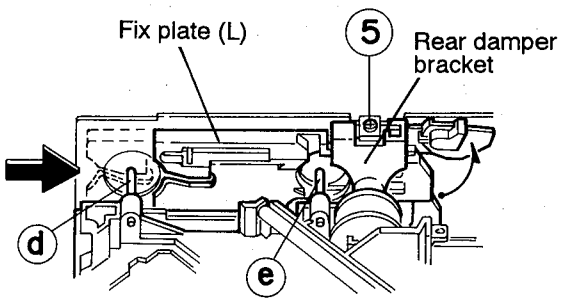


Fig. 2-17

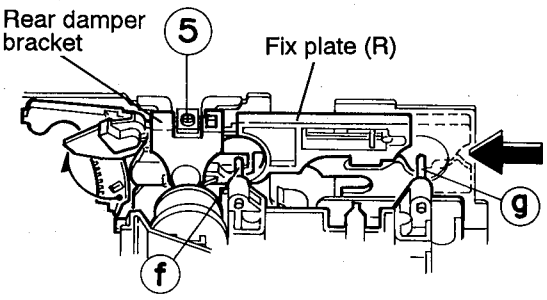


Fig. 2-18

5. While turning the pickup gear in the arrow direction as shown in Fig. 2-20, shift the entire pickup unit.

6. Remove the three screws ⑥ retaining the feed motor assembly and take out this motor assembly (See Fig. 2-19).

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. 2-21).

8. By removing the two screws ⑦ retaining the pickup unit, dismount the nut push spring plate and pickup mount nut (See Fig. 2-22).

9. Remove the FD screw from the pickup unit (See Fig. 2-22).

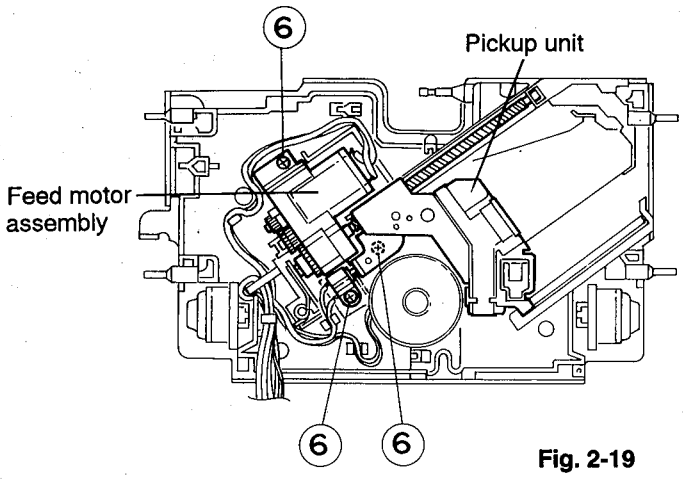


Fig. 2-19

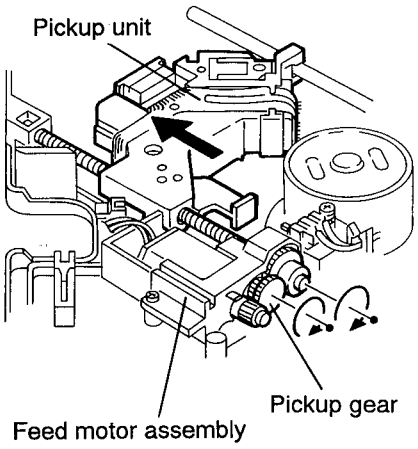


Fig. 2-20

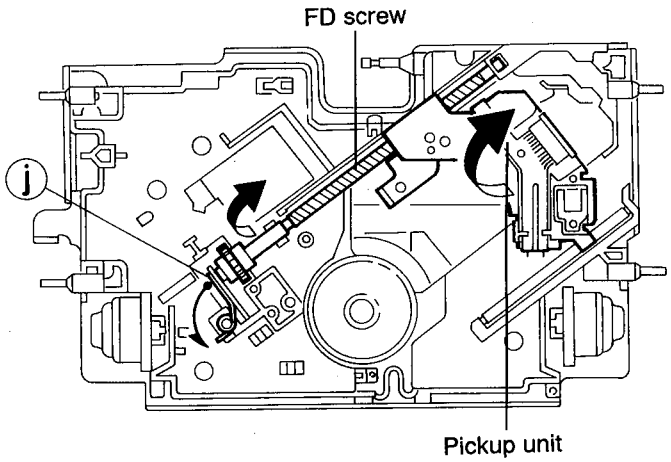


Fig. 2-21

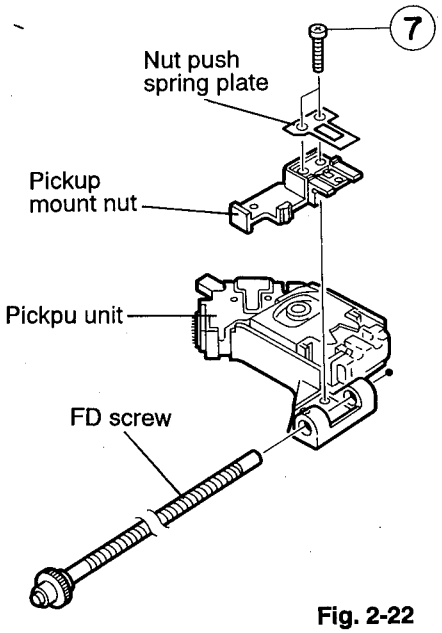


Fig. 2-22

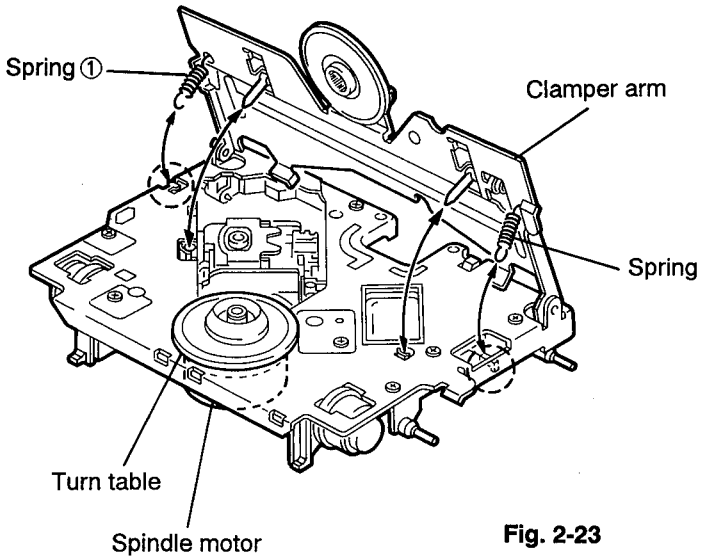


Fig. 2-23

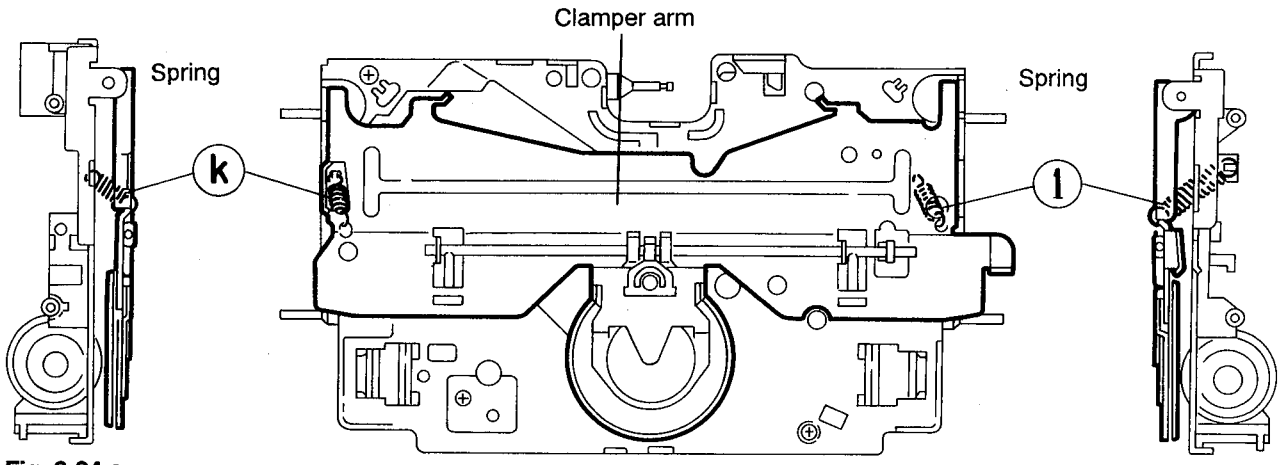


Fig. 2-24-a

Fig. 2-24-b

Fig. 2-24

■ Removing the spindle motor

1. After turning back the CD mechanism to initial position, remove the two springs ⓚ and ① on both the right and left sides of the clamper arm (See Figs. 2-23 and 2-24).

2. While turning the turntable, remove the two screws ⑧ retaining the spindle motor and take out the spindle motor (See Fig. 2-25).

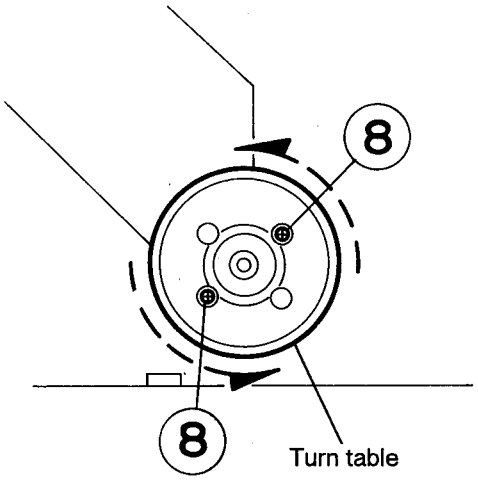


Fig. 2-25

3. Main Adjustment

■ Test Instruments reqired for adjustment

1. Digital oscilloscope(100 MHz)
2. AM Standard signal generater
3. FM Standard signal generater
4. Stereo modulator
5. Electric voltmeter
6. Digital tester
7. Tracking offset meter
8. Test Disc ..... JVC : CTS-1000
9. Extension cable for check ..... EXT – GS001-16P
   EXT – GS001-15P
   EXT – GS001-10P

■ Standard measuring conditions

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

● Standard volume position

Balance and Bass &Treble volume :Indication"0".
Loudness : Off

Setting of referance 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.

Output level ..... 0dB(1 μ V, 50 Ω /open terminal)
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.

■ How to connection the extension cables for adjusting

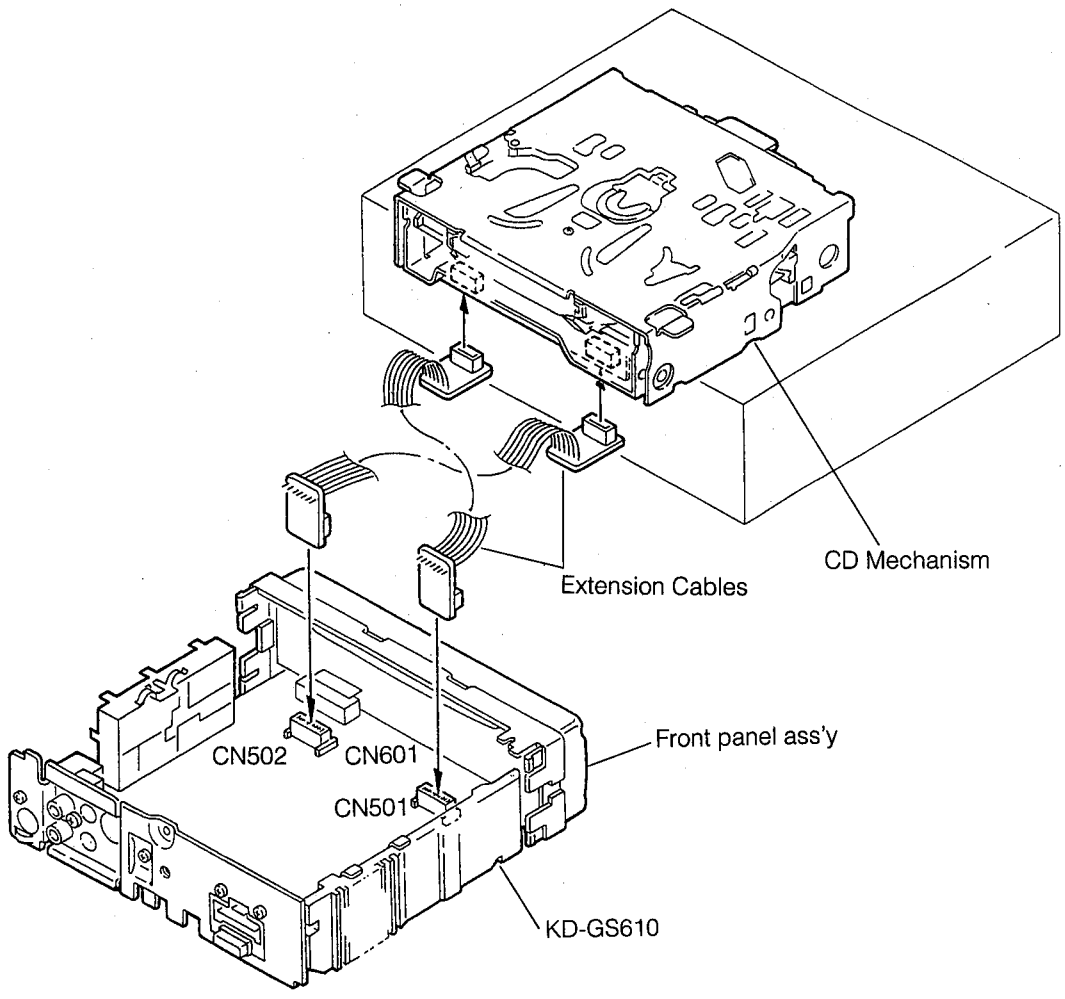


Fig. 3-1

■ Arrangement of Adjusting & Test Points

(Main amplifier board: Solder side)

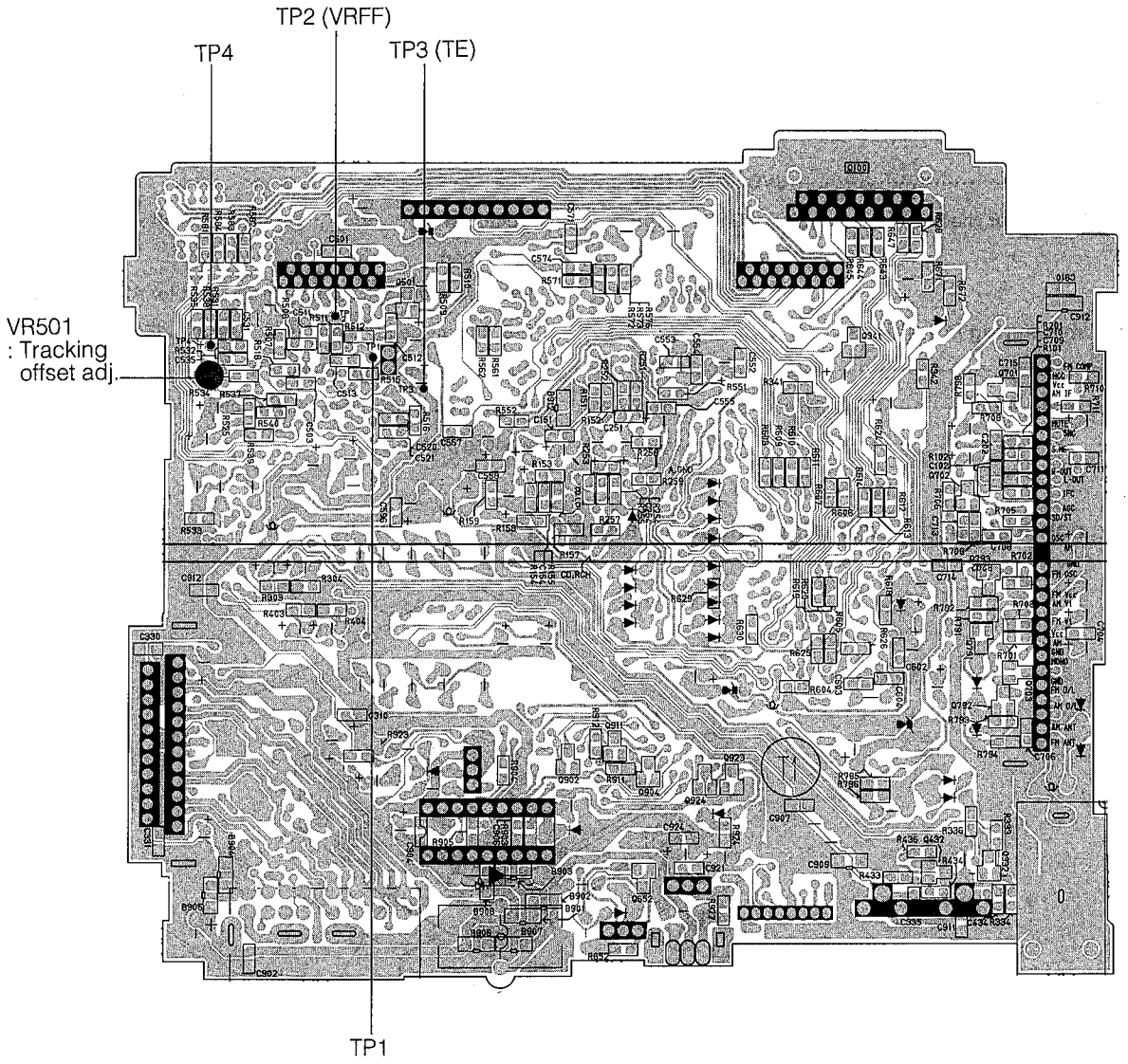
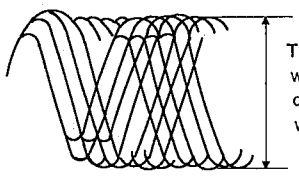
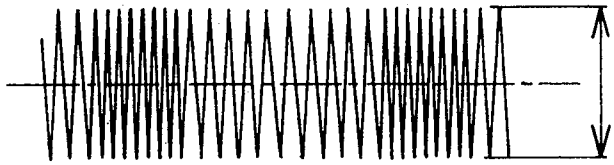


Fig. 3-2

■ CD Section

Iteme	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. Jitter check	Measuring instruction :Jitter meter Oscilloscope Test point : TP1 :TP2 (VREF)	1. Connect to the jitter meter between TP1 and TP2 (VREF). 2. When the test disc (Track 1)is played, confirm that the meter reading is less than 26n-sec	less than 26n-sec	–
2. RF level (eye-pattern) check	Measuring instruction Oscilloscope Test point : TP1 :TP2 (VREF)	1. Connect to the oscilloscope between TP1 and TP2 (VREF). 2. When the test disc (Track 1)is played, confirm that peak-to-peak value of eye-pattern waveform is within 0.85~1.75V Eye-pattern waveform  The maximum value of this waveform should be in the range of specifications and the waveform should be clear	Within 0.85~1.75V	
3. Tracking offset adjustment	Measuring instruction :Oscilloscope Test point TP2 Oscilloscope ground side (VREF level) TP3 Oscilloscope hot side Note 1 Oscilloscope input should be DC coupled. Note 2 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage of servo.	Adjustment procedure 1. Connect to the oscilloscope between TP2 (VREF) and TP3 (TE) . 2. Play back the disc(Track 1). 3. Turn on the short switch.(Shot circuit between TP2 (VREF) and TP4 during test disc play.) 4. Since the waveform of tracking error signal. displayed by the oscilloscope goes up and down when VR501 has been adjusted. Adjust VR501 so becomes a reference 0 ± 20m voltage value of servo (VREF). Tracking offset waveform  Set the P-P center of the DC level to zero.	Adjust the center of waveform amplitude to the reference 1.5 ± 0.3 voltage Note3. VREF: Ground level on the oscilloscope	VR501
4. Line out level check	Measuring point :Line out	2. When the test disc (Track 1)is played, confirm that line out level is 1.5 ± 0.3V.	1.5 ± 0.3V	–

4. Main IC's General Discription

■ IC301: TEA6320T (E. VOLUME)

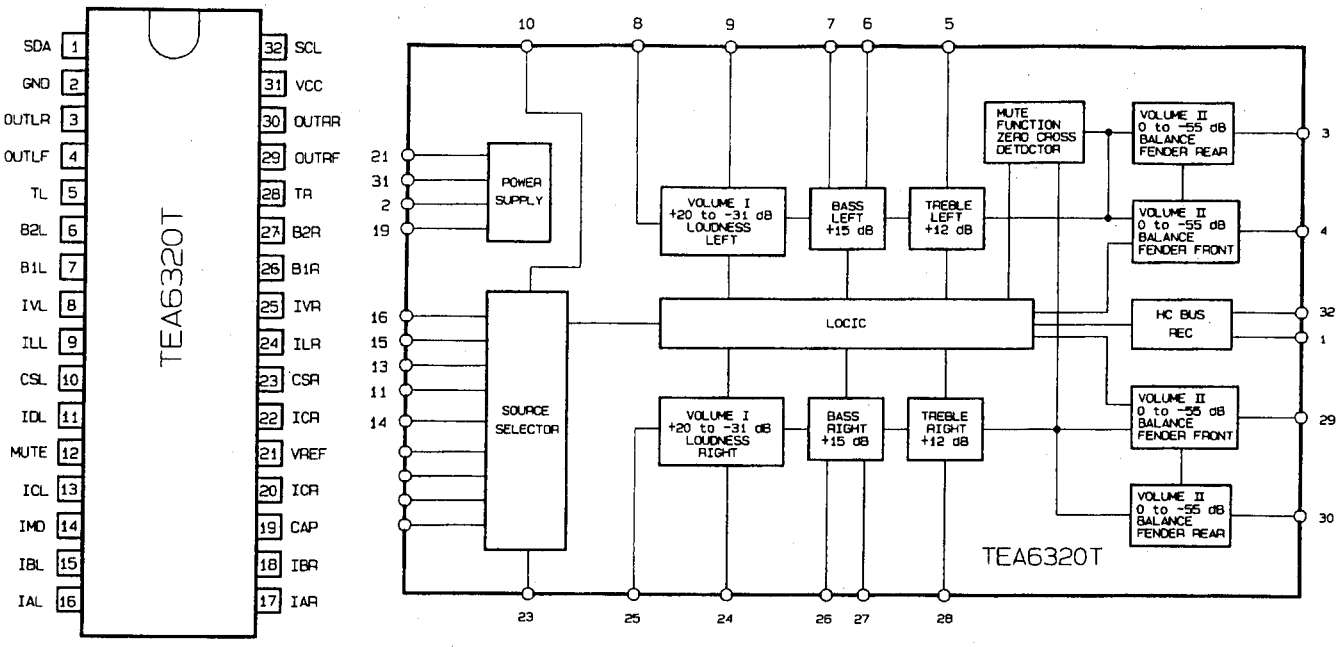


Fig. 4-1

■ IC901: TDA3603P (REGULATOR)

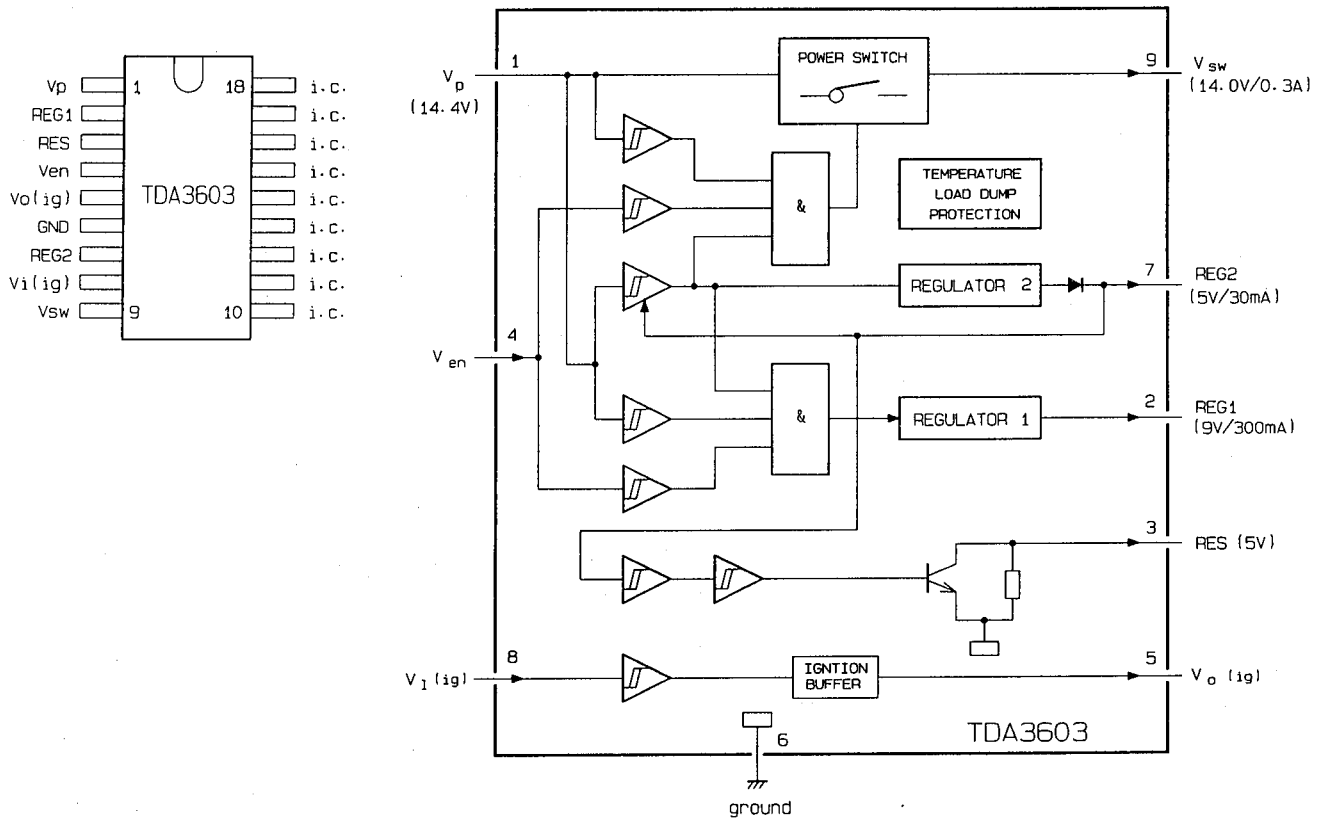


Fig. 4-2

■ IC601 : LC72366 (CPU) Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	XIN		4.5MHz crystal oscillator connection pin.
2	TEST2		Ground
3	J BUS SI	I/O	Changer data input for information
4	J BUS SO	I/O	Changer data output for information
5	J BUS SCK	I/O	Changer clock in/output for information
6	TELMUTE		Non connection
7	E.VOL ACKIN	I/O	Electrical volume for ACKinput
8	E.VOL SO	I/O	Electrical volume for data output
9	E.VOL SCK	I/O	Electrical volume for clock output
10	LCD CE	I/O	Chip enable signal output for LCD driver
11	REST SW	I/O	Rest switch for traverse mecha
12	LCD SO	I/O	Data output for LCD driver
13	LCDSCK	I/O	Clock output for LCD driver
14	MECHA SW4	I/O	8cm disck eject position (Detect switch input),8cm loading waite timing start
15	NC		Non connection
16	BUCK	O	Communication clock output
17	CCE	O	Communication chip enable output
18	LM0	O	Loading motor control signal output (FWD)
19	LM1	O	Loading motor control signal output (REV)
20	CDREMOTE	O	Non connection
21	NC	O	Non connection
22	TUNER REMOTE	O	Antenna remote control output
23	J BU I/OCONT	O	In output selecter for communication buffer output
24	KS2	O	Initial setting output pin 2
25	KS1	O	Initial setting output pin 1
26	KS0	O	Initial setting output pin 0
27	SD/ST	I	Station detector input, ST input
28	K2	I	Initial setting input pin 2
29	K1	I	Initial setting input pin 1
30	K0	I	Initial setting input pin 0
31	Vdd		Power source pin
32	MECHA SW2	I/O	Detect switch for 12cm disc input
33	IFRQ/ AGC	O	IF count request output
34	NC		Non connection
35	NC		Non connection
36	NC		Non connection
37	BEEP LEVEL		Non connection
38	FM ILLUMI	O	Function illumination selector output (FM)
39	AM ILLUMI	O	Function illumination selector output (AM)
40	NC		Non connection

Pin No.	Symbol	I/O	Function
41	CD ON	O	CD power control signal output
42	BAND	O	FM/AM band selector signal output
43	POWER CONT	O	Power source IC control output
44	BEEP	O	Tach tone output
45	DETACH	I/O	Remove the front panel detecting input
46	POWER SAVE2	I/O	Power save 2 detecting input
47	MECHA SW1	I/O	Disc in detecting switch input 8cm disc detecting switch input
48	MECHA SW3	I/O	Disc existence detecting switch input Loading finishing detecting switch input
49	BUS3	I/O	CD LSI communication Bus line
50	BUS2	I/O	CD LSI communication Bus line
51	BUS1	I/O	CD LSI communication Bus line
52	BUS0	I/O	CD LSI communication Bus line
53	SYSTEM RESET	I/O	Microcomputer reset input
54	MONO	I/O	Monoral control signal output
55	OPTICAL REMOCON	I/O	Optical remote control signal input
56	J BUSINT	I/O	Cut into J bus input
57	NC		Non connection
58	NC		Non connection
59	CDLSI RESET	O	CD system reset signal output
60	MUTE	O	Voice mute control signal output
61	KEY0	I	Key AD input pin 0
62	KEY1	I	Key AD input pin 1
63	KEY2	I	Key AD input pin 2
64	A/D KEYSEL	I	Key mode selector AD
65	LEVEL IND	I	Level meter AD input pin
66	SM	I	S. meter input
67	POWER SAVE1		Power save1 detecting input
68	SNS		Power reduction sens pin
69	NC		Non connection
70	AM/FM IFCONT		AM/FM IF count signal input
71	NC		Non connection
72	NC		Non connection
73	Vdd		Power source pin
74	AMOSC		AM local oscillator signal input
75	FMOSC		FM local oscillator signal input
76	GND		Ground
77	NC		Non connection
78	ERROR OUT		PLL error signal output
79	GND		Test pin (To ground)
80	XOUT		4.5MHz crystal oscillator connection pin. (Out)

5. Analytic Drawing and Parts List

■ CD Mechanism Parts: Block No. M1

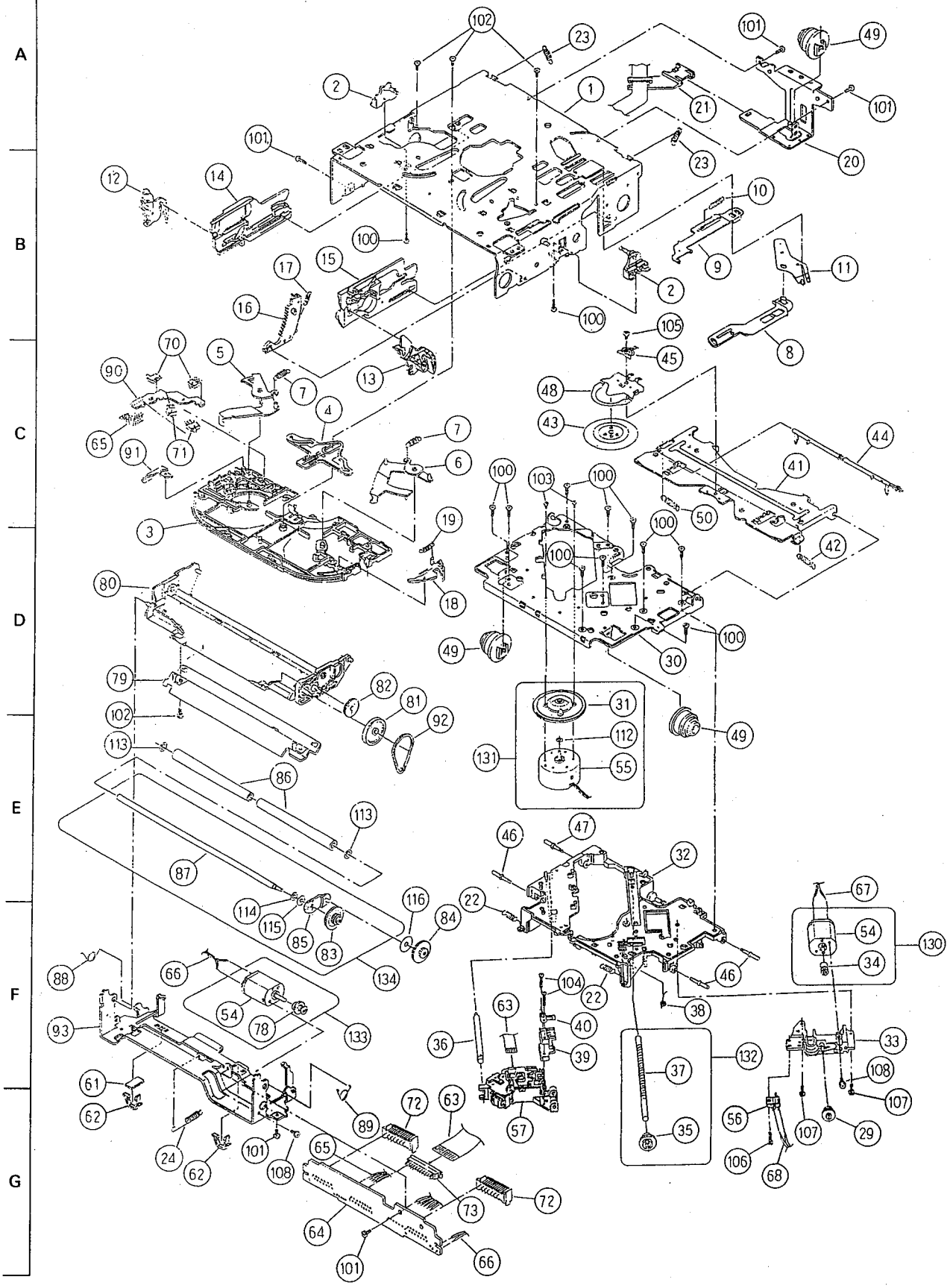


Fig. 5-1

■ CD Mechanism Parts List M1

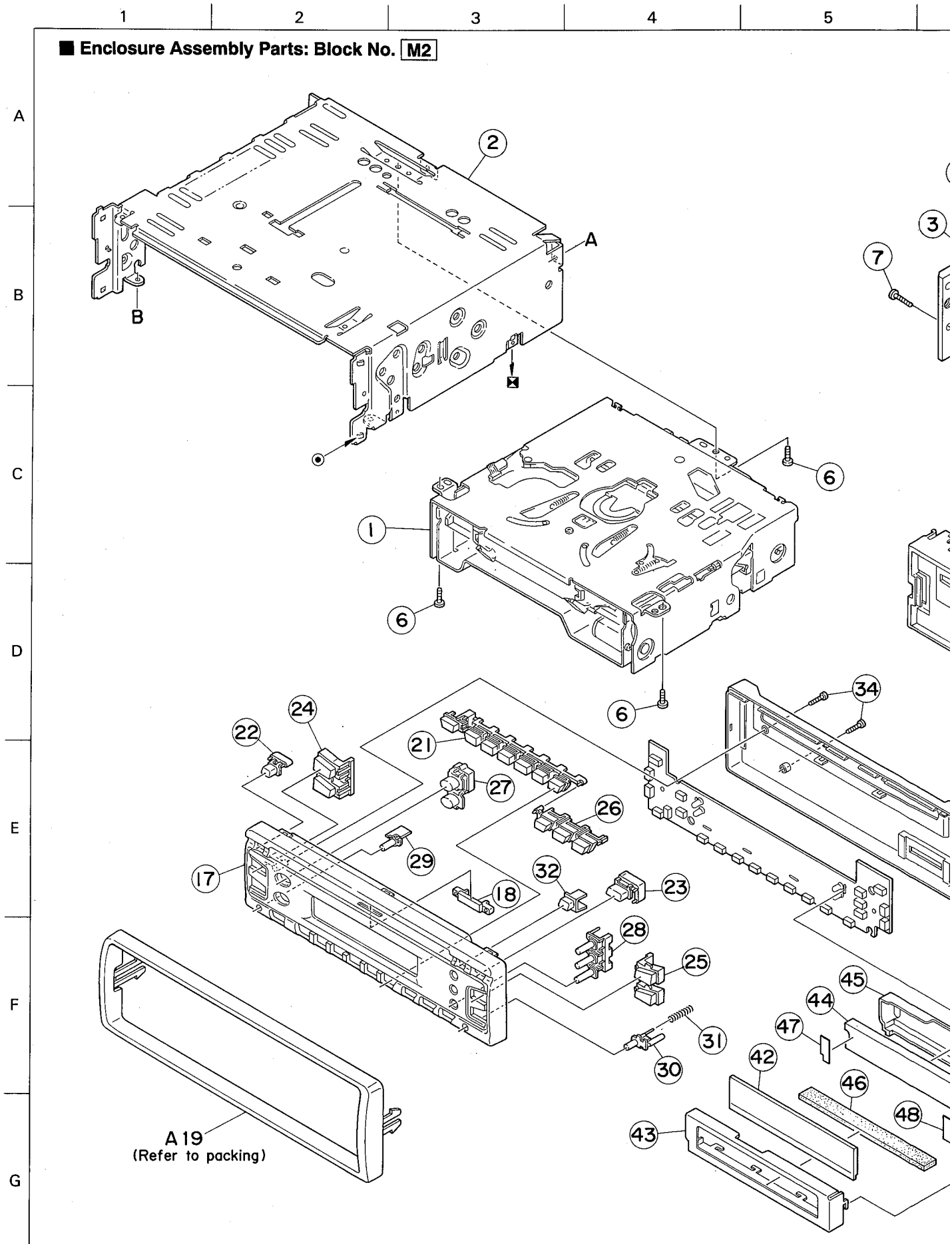
BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	30310101T	FRAME		1		
	2	30310103T	DANPER PIN		2		
	3	30310107T	UPPER PL		1		
	4	30310108T	SEL STOP PL		1		
	5	30310109T	SEL ARM (L)		1		
	6	30310110T	SEL ARM (R)		1		
	7	30310111T	S ARM SPRING		2		
	8	30310112T	TRIG LVR		1		
	9	30310114T	TRIG PL		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 PL (L)		1		
	15	30310120T	FIX PL (R)		1		
	16	30310121T	LDG GR (6)		1		
	17	30310122T	LDG GR (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 SP		1		
	29	30300510T	PU GEAR(B)		1		
	30	30310501T	TTB		1		
	31	---------	TURN TABLE		1		
	32	30310503T	FMB		1		
	33	30310504T	FD GR BKT		1		
	34	---------	FD GR (A)		1		
	35	---------	FD GR (C)		1		
	36	30310508T	PU SHAFT		1		
	37	---------	FD SCREW		1		
	38	30310510T	THRUST SPR		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		
	54	---------	FEED MOTOR	FF030PK-09210	2		
	55	---------	SPINDLE MOTOR	RF300CA-11440D	1		
	56	64180404T	DET SW	ESE11HS2	1		
	57	OPTIMA-610MZ	CD.PICK UNIT		1		
	61	11050210T	FELT		1		
	62	19501403T	WIRE CLUMPER		2		
	63	30311001T	PICK UP FPC		1		
	64	30311002T	CONNECTER PCB(J		1		
	65	30311003T	WIRE (5P)		1		
	66	30311005T	WIRE (LD)		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	67	30311006T	WIRE (FD)		1		
	68	30311007T	WIRE (RS)		1		
	70	64180402T	DET SW	ESE22MH1	2		
	71	64180403T	DET SW	ESE22MH3	2		
	72	68150230T	CONNECTOR	TKC-F14P-K3	2		
	73	68170222T	CONNECTOR	6208010117	1		
	78	---------	LDG PULLEY		1		
	79	30311105T	SOPPORT PL		1		
	80	30311108T	GR MT BLK		1		
	81	30311109T	LDG GR (2)		1		
	82	30311110T	LDG GR (3)		1		
	83	---------	LDG GR (4)		1		
	84	30311112T	LDG GR (5)		1		
	85	---------	LDG GR ARM		1		
	86	30311114T	LDG ROLLER		2		
	87	---------	LDG RLR SFT		1		
	88	30311118T	L.P SP (L)		1		
	89	30311119T	L.P SP (R)		1		
	90	30311123T	SW PCB		1		
	91	30311124T	SW ACTR		1		
	92	30311129T	LDG BELT		1		
	93	30311130T	FRONT BRKT (J)		1		
	100	9C0620503T	C B TAP SCREW	M2X5	11		
	101	9C2020401T	C SCREW TS.G	M2X4	5		
	102	9C4320403T	C B TAP SCREW	M2X4	4		
	103	9C0117223T	SCREW	M1.7X2.2	2		
	104	9C0117703T	C SCREW	M1.7X7	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	---------	P W	2X3.5X0.25	1		
	113	9W0125090T	P W	3.1X5.4X0.25	2		
	114	---------	WAVE WASHER		1		
	115	---------	LUMILAR W	2.5X6X0.1	1		
	116	9W0735080T	LUMILAR W	2.3X9.8X0.35	1		
	130	303105301T	FFED MO ASSY	NO.34,54	1		
	131	303105302T	SPINDLE MO 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		
				114,115	1		

■ Enclosure Assembly Parts: Block No. M2



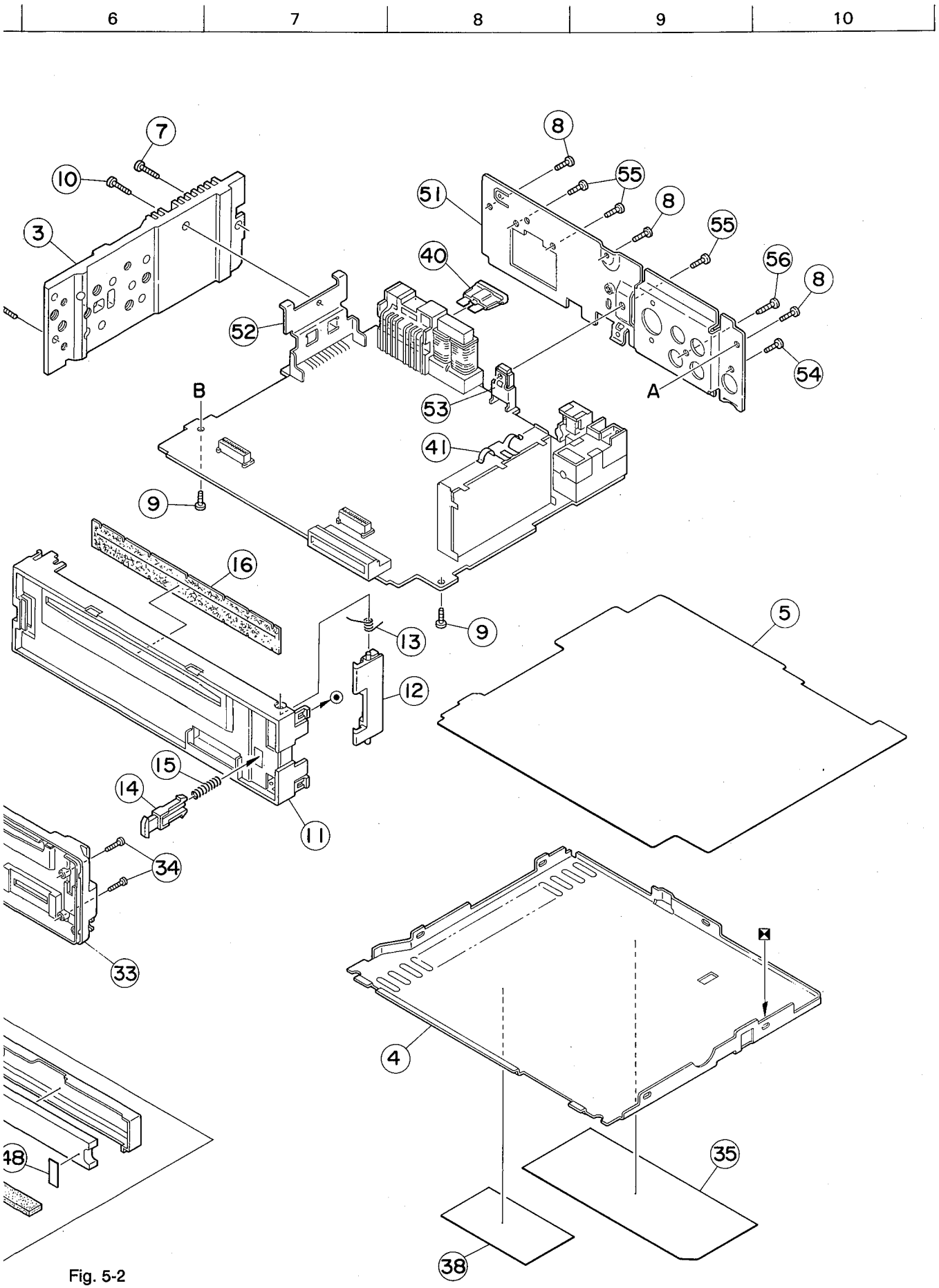

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Fig. 5-2

■ Enclosure Assembly Parts List M2

BLOCK NO. M2MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	----------	GS929 CD MECHA		1		
	2	FSJC1029-001	TOP CHASSIS		1		
	3	FSMH3001-001	HEAT SINK		1		
	4	FSKM3007-001	BOTTOM COVER		1		
	5	FSMA3004-001	INSULATOR		1		
	6	SDST2604Z	SCREW	CHASSIS+MECHA B	3		
	7	SDST2610Z	SCREW	CHASSIS+SIDE PA	2		
	8	SDST2606Z	SCREW	CHASSIS+REAR BK	3		
	9	SDST2606Z	SCREW	CHASSIS+MAIN PW	2		
	10	SDST2610Z	SCREW	SIDE PANEL+IC B	1		
	11	FSJC2010-001	FRONT CHASSIS		1		
	12	FSKS3004-001	LOCK LEVER		1		
	13	FSKW4005-003	TORSION SPRING	FOR LOCK LEVEL	1		
	14	FSXP3026-001	RLS KNOB		1		
	15	FSKW3002-004	COMP.SPRING		1		
	16	FSPK3009-001	BLIND		1		
	17	FSJC3011-00E	FRONT PANEL		1		
	18	FSJK3007-001	LIGHT LENS		1		
	21	FSXP2022-001	PRESET BUTTON	1/2/3/4/5/6 & S	1		
	22	FSXP3033-001	POWER BUTTON		1		
	23	FSXP3034-001	EJECT BUTTON		1		
	24	FSXP3036-001	+/- BUTTON		1		
	25	FSXP3037-001	UP DOWN BUTTON		1		
	26	FSXP2023-004	D.FUNC BUTTON	CD/FM/AM	1		
	27	FSXP3038-003	SND/C. BUTTON	LOUD/SOUND	1		
	28	FSXP3039-001	PUSH BUTTON	MO.RPT/RND/SCAN	1		
	29	FSXP4001-001	DISPLAY BUTTON		1		
	30	FSXP3035-001	DETACH BUTTON		1		
	31	FSKW3002-007	COMP.SPRING	FOR DETACH BUTT	1		
	32	FSJK4007-001	REMOTE LENS		1		
	33	FSJC1028-001	REAR COVER		1		
	34	SPSF1780M	MINI SCREW	FRONT+REAR	4		
	35	FSYN3025-006	NANE PLATE		1		
	38	VND4922-007	CAUTION LABEL		1	J	
	40	QMFZ021-100-J1	FUSE		1		
	41	VMA4652-001SS	EARTH PLATE		1		
	42	QLD0008-001	LCD	LCD1	1		
	43	FSYH3011-001	LCD CASE		1		
	44	VJK3680-001	LCD LENS		1		
	45	VKS3750-002	LENS CASE		1		
	46	VMZ0147-001	LCD CONNECTOR		1		
	47	VYTT689-001	BLIND(L)		1		
	48	VYTT690-001	BLIND(R)		1		
	51	FSKM3008-001	REAR BRACKET		1		
	52	FSKL4013-001	IC BRACKET		1		
	53	VKL7059-002	TR BRACKET		1		
	54	SDST2606Z	SCREW	"FOR ANT."	1		
	55	SDSP2606Z	SCREW	"16P & TR BRACK	3		

6. Wiring Connections

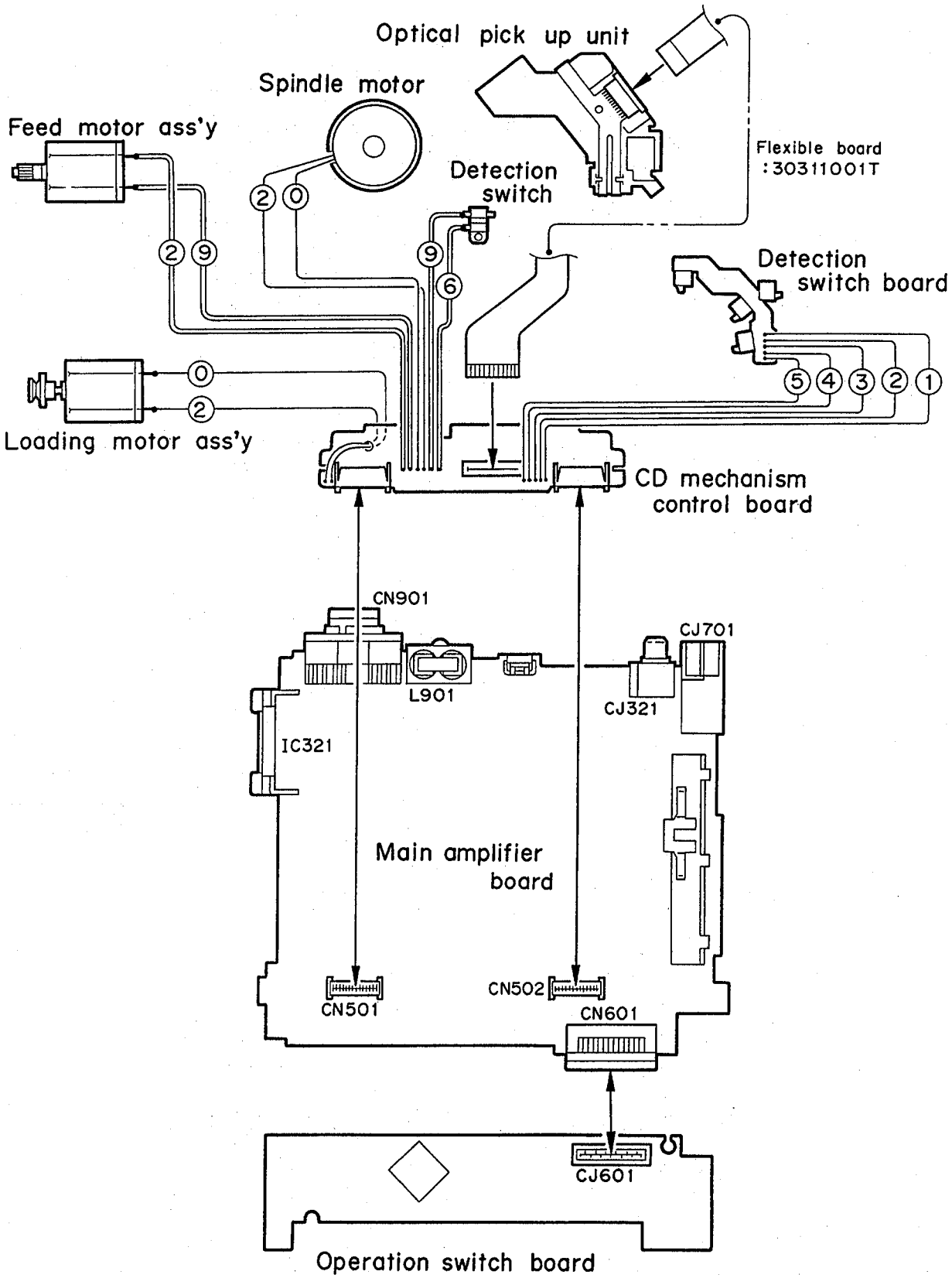


Fig. 6-1

7. Standard Schematic Diagram ■ CD Servo Control & LCD O

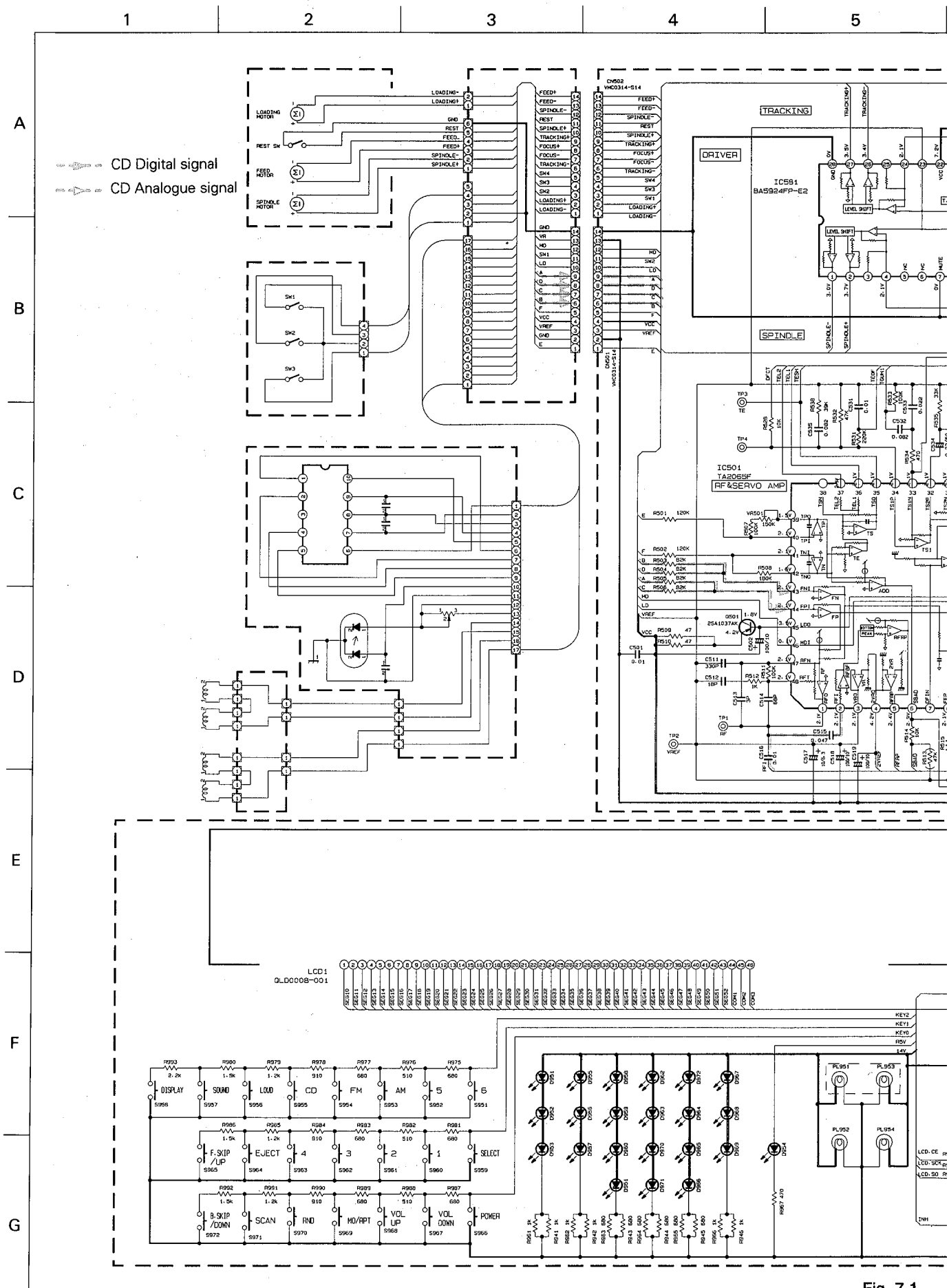
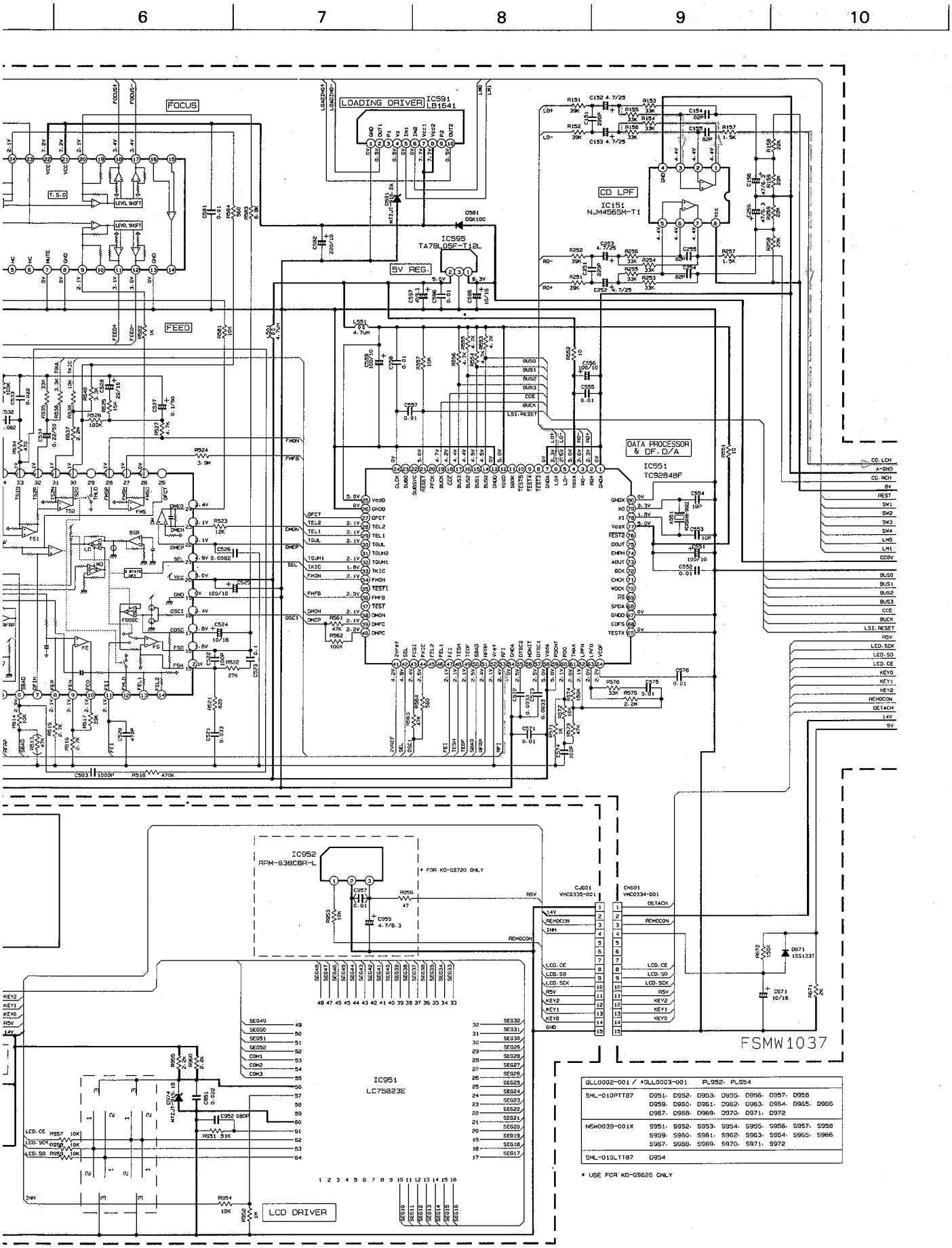


Fig. 7-1

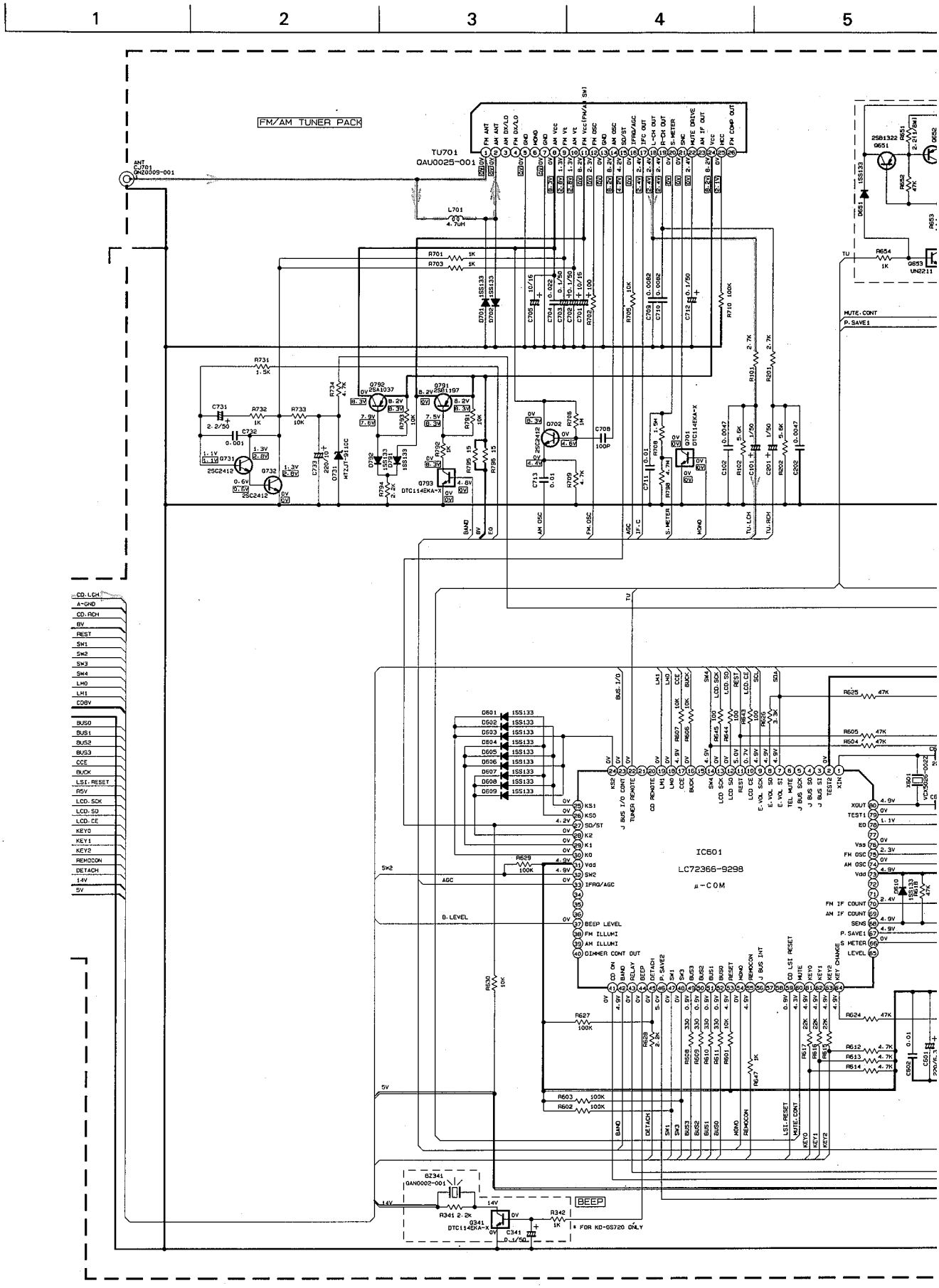
CD Operations Switch Circuit: Drawing No. FSDH3020-006CW

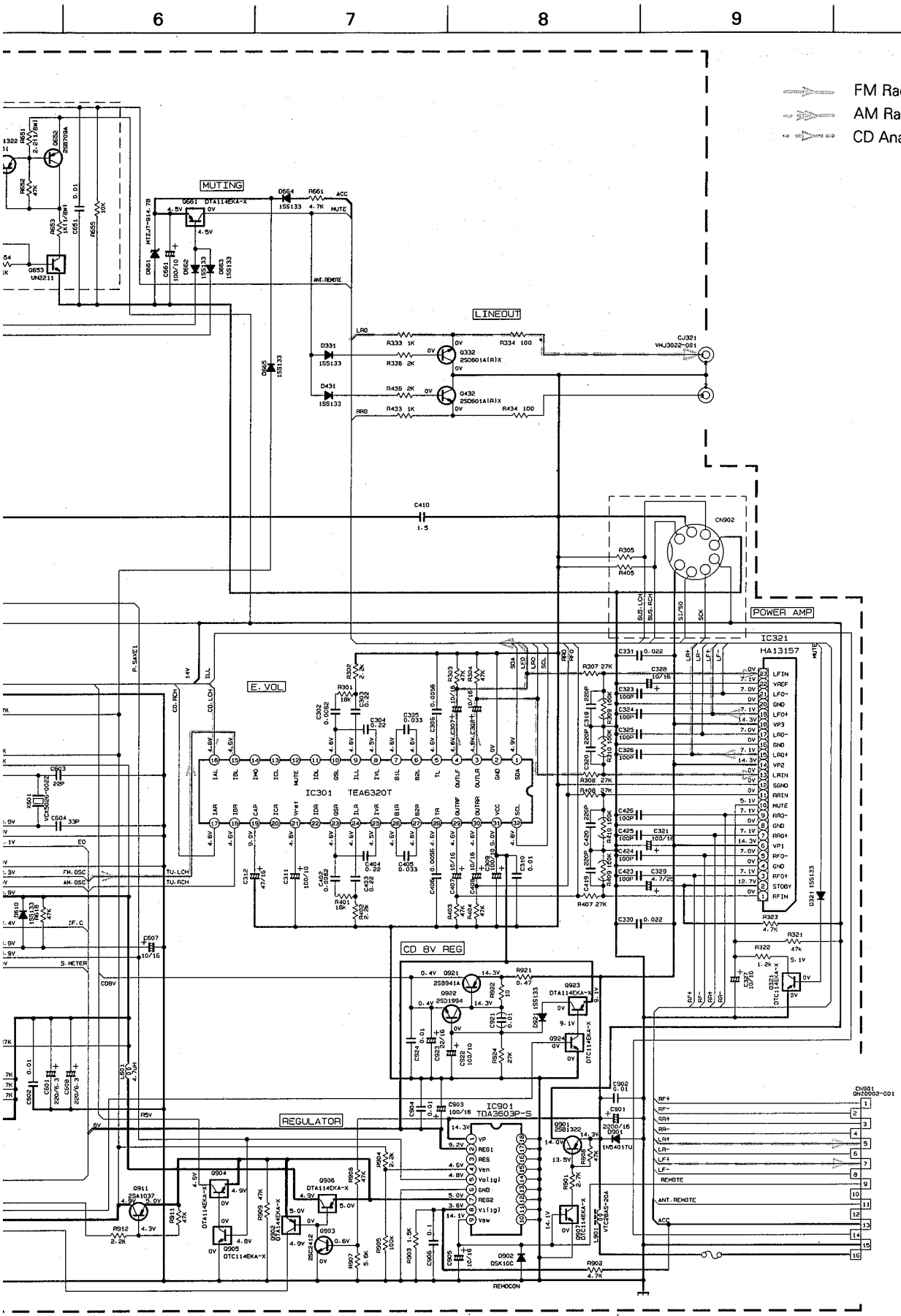


QLL0002-001 / *QLL0003-001	PL952. PL954						
SML-010PTT87	D951. D952. D953. D955. D956. D957. D958 D959. D960. D961. D962. D963. D964. D965. D966 D967. D968. D969. D970. D971. D972						
NSW0039-001X	S951. S952. S953. S954. S955. S956. S957. S958 S959. S960. S961. S962. S963. S964. S965. S966 S967. S968. S969. S970. S971. S972						
SML-010LTT87	D954						

* USE FOR KD-GS626 ONLY

■ Reciever & Power Amplifier Circuit: Drawing No. FSDH3020-006TW





*REMARK	D601, D602	C709, C710	LINEOUT	BUZZER/REMOCON/D607
KD-GS720	NOT USED	USED	USED	USED
KD-GS620	NOT USED	USED	USED	NOT USED
KD-GS626	USED	NOT USED	USED	NOT USED
KD-GS610	NOT USED	USED	NOT USED	NOT USED

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

Fig. 7-2

8. Location of P. C. Board Parts

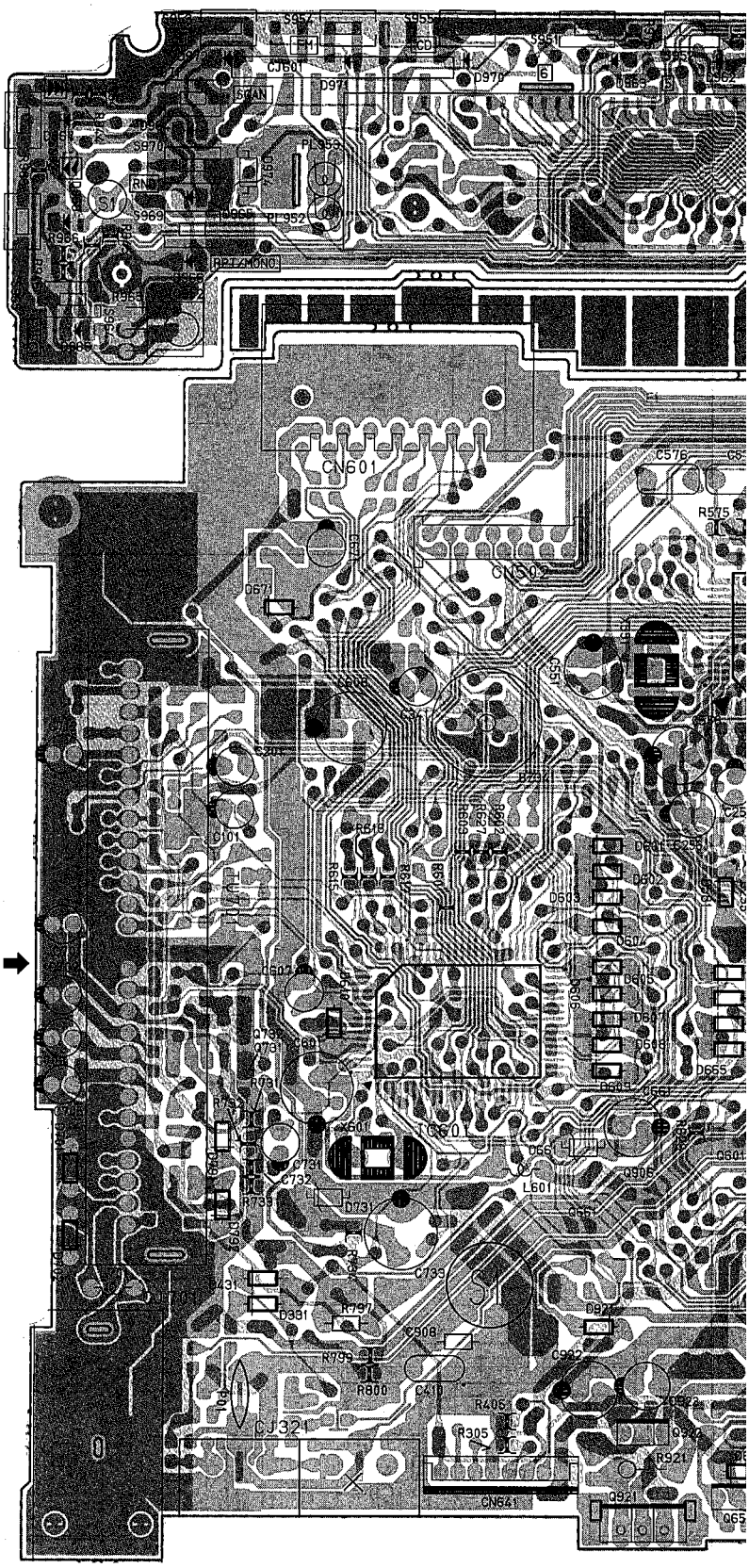
■ **Main Board: Block No. 01**

: **Surface parttern**

: **Backface parttern**

● Operation switch board ➡

● Main amplifier board ➡



Fig

6	7	8	9	10

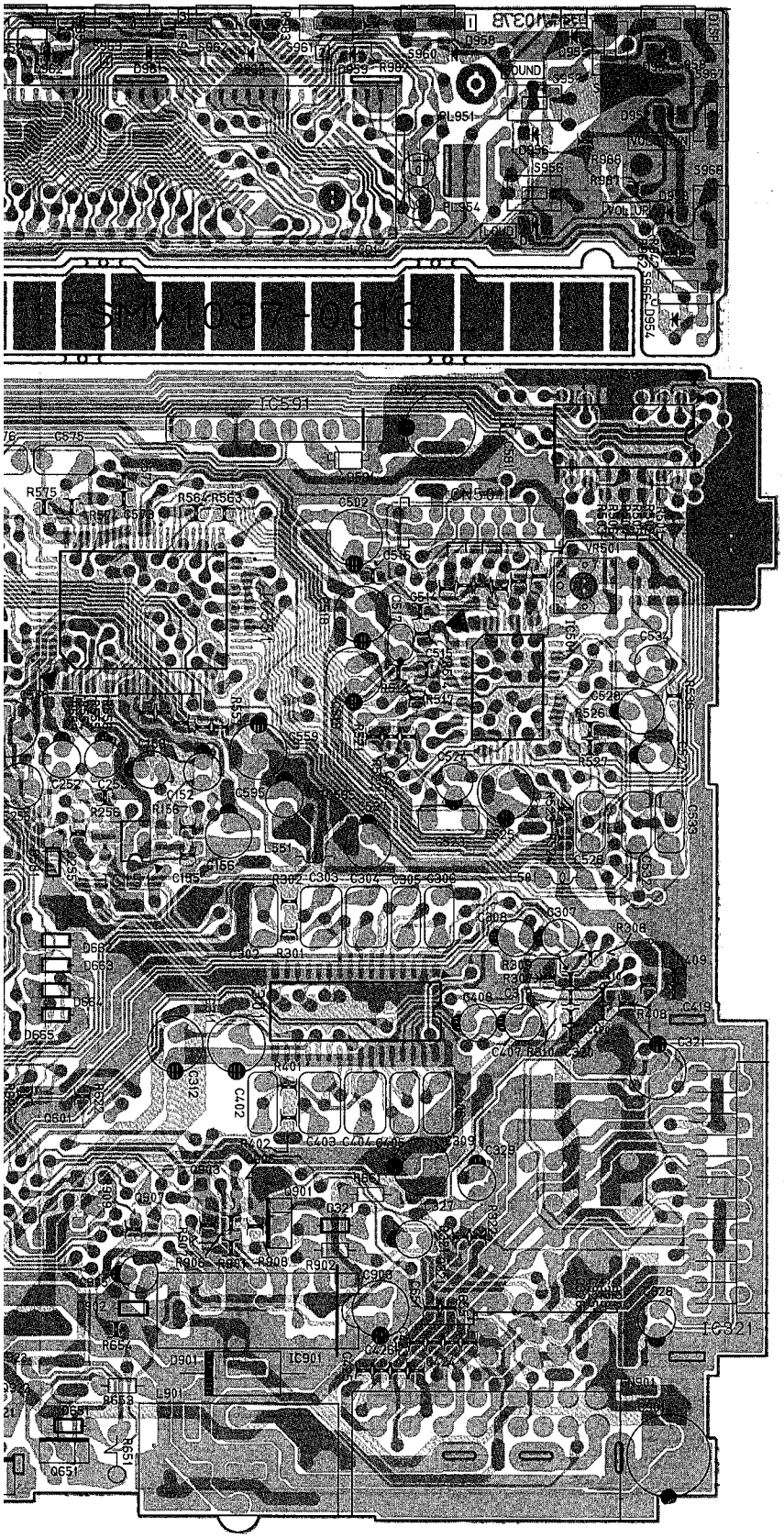
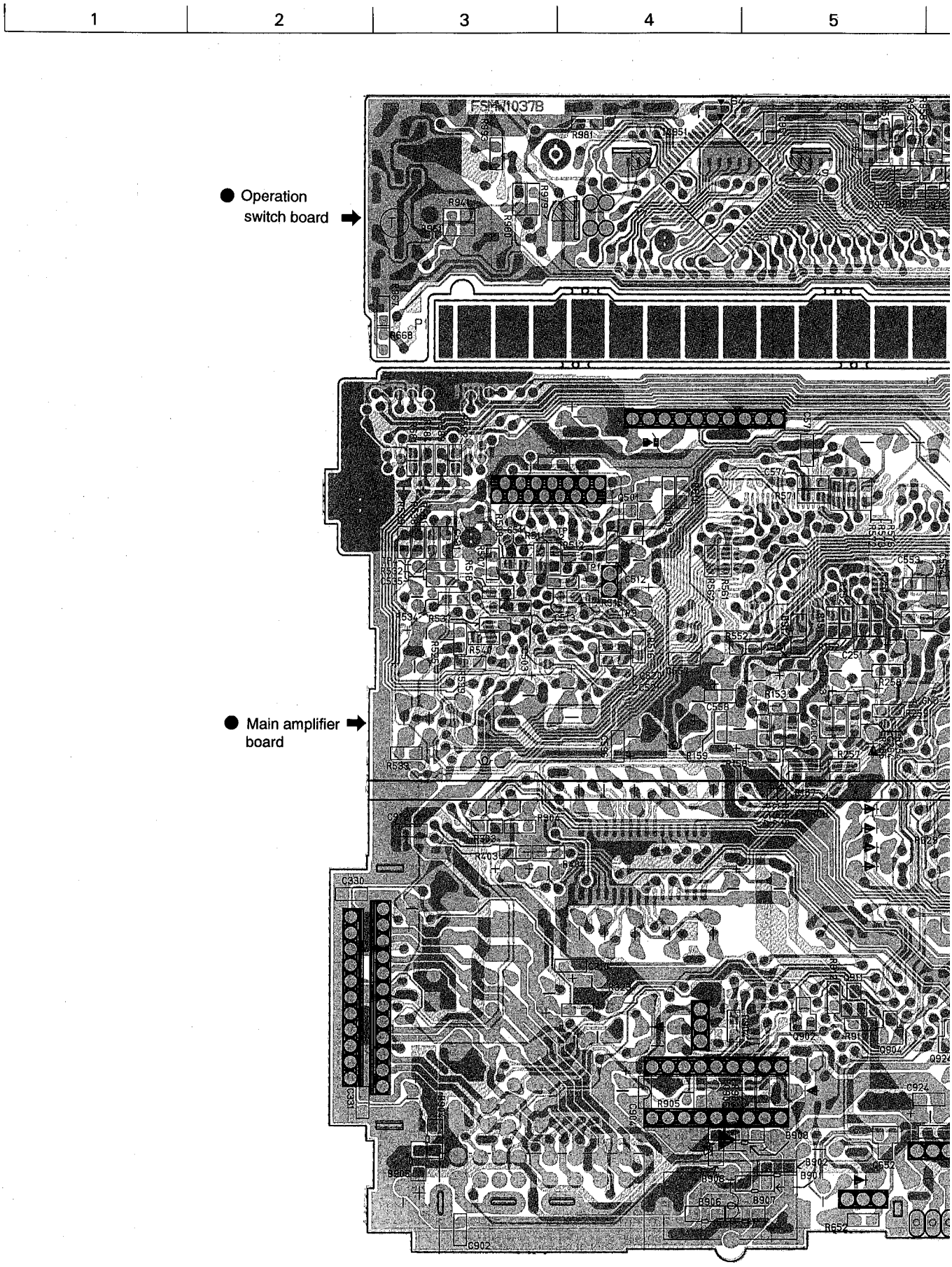


Fig. 8-1


1
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● Operation switch board
● Main amplifier board
FSMN1037B

Fig. 8-2

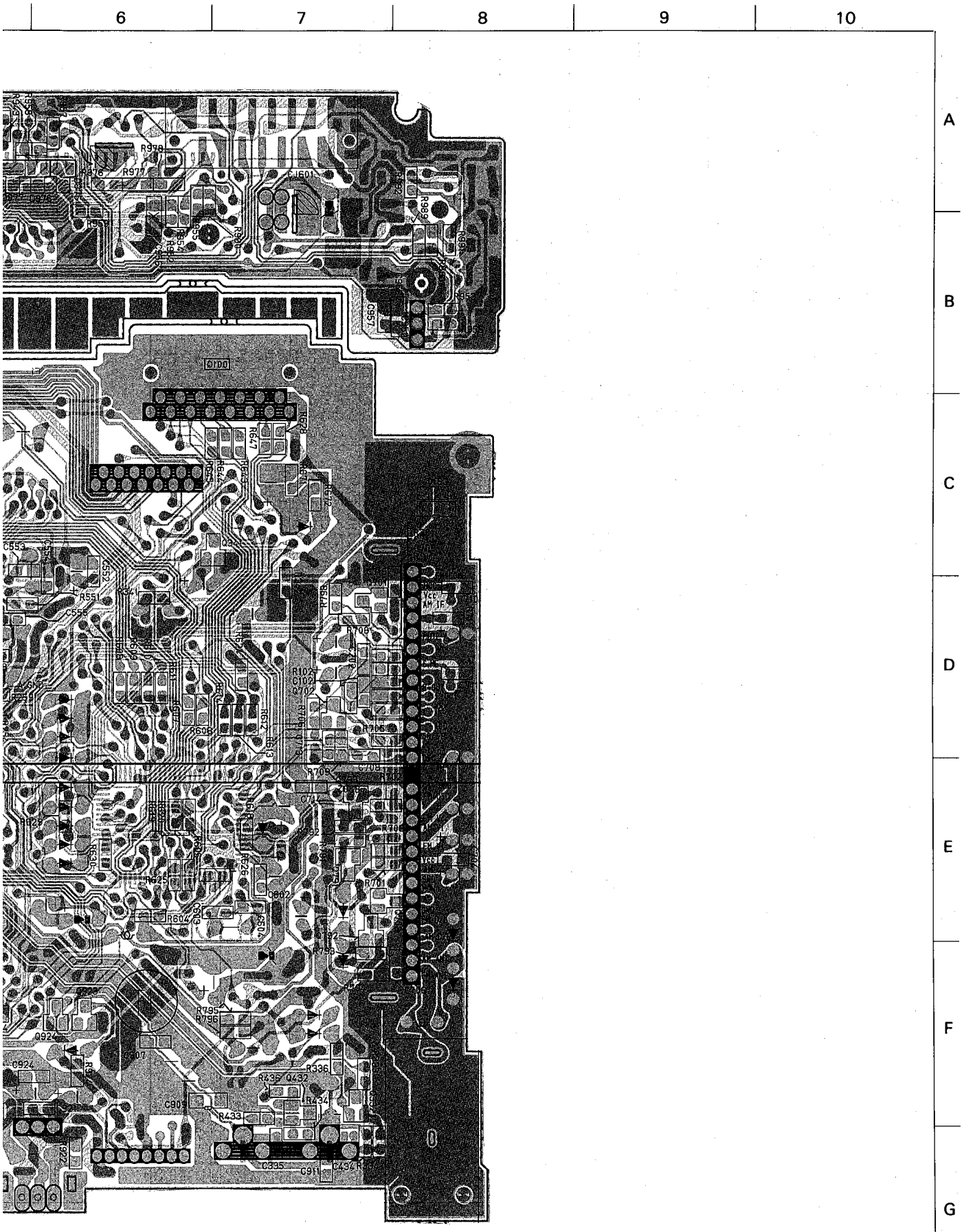

Fig. 8-2

■ Main Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 101	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 102	NCB21HK-472AY	C CAPACITOR	4700PF 10% 50V	
	C 151	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 152	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 153	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 154	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 155	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 156	QEKF0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C 201	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 202	NCB21HK-472AY	C CAPACITOR	4700PF 10% 50V	
	C 251	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 252	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 253	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 254	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 255	NCS21HJ-820AY	C CAPACITOR	82PF 5% 50V	
	C 256	QEKF0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C 302	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 303	QFV41HJ-224	FILM CAPACITOR	.22MF 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	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 308	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	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 321	QEKF1CM-107ZN	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	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	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	QFV41HJ-224	FILM CAPACITOR	.22MF 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	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 408	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	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% 50V	
	C 502	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 503	NCS21HJ-471AY	C CAPACITOR	470PF 5% 50V	
	C 511	NCT21CH-331AY	C.CAPACITOR	330PF +50:-10%	
	C 512	NCT21CH-180AY	C CAPACITOR	18PF +50:-10% 1	
	C 513	NCT21CH-3R0AY	C CAPACITOR	3.0PF +50:-10%	
	C 514	NCT21CH-680AY	C CAPACITOR	68PF +50:-10% 1	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 515	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 516	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 517	QEE40JM-106B	TS.E.CAPACITOR	10MF 20% 6.3V	
	C 518	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 519	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 520	NCS21HJ-471AY	C CAPACITOR	470PF 5% 50V	
	C 521	NCB21HK-333AY	C CAPACITOR	.033MF 10% 25V	
	C 522	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 523	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C 524	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 525	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 526	QFLA1HJ-822ZM	M.CAPACITOR	8200PF 5% 50V	
	C 527	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 528	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 531	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 532	QFV41HJ-823	FILM CAPACITOR	.082MF 5% 50V	
	C 533	QFV81HJ-223	FILM CAPACITOR	.022MF 5% 50V	
	C 534	QEPJ1HM-224Z	NP E CAPACITOR	.22MF 20% 50V	
	C 535	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V	
	C 551	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 552	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 553	NCT21CH-100AY	C CAPACITOR	10PF +50:-10% 1	
	C 554	NCT21CH-100AY	C CAPACITOR	10PF +50:-10% 1	
	C 555	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 556	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 557	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 558	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 559	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 571	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 572	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C 573	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C 574	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 575	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 576	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	C 581	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 582	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
	C 595	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 596	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 597	QEKF0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C 601	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 602	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	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	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 661	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 671	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 701	QEK41CM-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 704	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 705	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 708	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 709	NCB21HK-822AY	C CAPACITOR	8200PF 10% 50V	
	C 710	NCB21HK-822AY	C CAPACITOR	8200PF 10% 50V	

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⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 711	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 712	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 713	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 731	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 732	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 733	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
	C 901	QEZ0337-228	E CAPACITOR	2200MF	
	C 902	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 903	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 904	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 905	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 906	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
	C 921	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 922	QEKF1AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 923	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 924	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 951	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 952	NCS21HJ-681AY	C CAPACITOR	680PF 5% 50V	
	CJ321	VMJ3022-001	PIN JACK		
	CJ601	VMC0335-001	CONNECTOR		
	CJ701	QNZ0009-001	CAR ANT JACK		
	CN501	VMC0314-S14	CONNECTOR		
	CN502	VMC0314-S14	CONNECTOR		
	CN601	VMC0334-001	CONNECTOR		
	CN901	QNZ0002-001	16P CONNECTOR		
	D 321	1SS133T-91	SI DIODE		
	D 581	DSK10C-E	DIODE		
	D 591	MTZJT-915.1B	ZENER DIODE		
	D 610	1SS133T-91	SI DIODE		
	D 661	MTZJ-4.7B	ZENER DIODE		
	D 662	1SS133T-91	SI DIODE		
	D 663	1SS133T-91	SI DIODE		
	D 664	1SS133T-91	SI DIODE		
	D 665	1SS133T-91	SI DIODE		
	D 671	1SS133T-91	SI DIODE		
	D 701	1SS133T-91	SI DIODE		
	D 702	1SS133T-91	SI DIODE		
	D 731	MTZJT-9110C	ZENER DIODE		
	D 791	1SS133T-91	SI DIODE		
	D 792	1SS133T-91	SI DIODE		
	D 901	1N5401TU-15	DIODE		
	D 921	MTZJT-918.2C	ZENER DIODE		
	D 951	SML-010PTT87	LED		
	D 952	SML-010PTT87	LED		
	D 953	SML-010PTT87	LED		
	D 954	SML-010PTT87	LED		
	D 955	SML-010PTT87	LED		
	D 956	SML-010PTT87	LED		
	D 957	SML-010PTT87	LED		
	D 958	SML-010PTT87	LED		
	D 959	SML-010PTT87	LED		
	D 960	SML-010PTT87	LED		
	D 961	SML-010PTT87	LED		
	D 962	SML-010PTT87	LED		
	D 963	SML-010PTT87	LED		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 964	SML-010PTT87	LED		
	D 965	SML-010PTT87	LED		
	D 966	SML-010PTT87	LED		
	D 967	SML-010PTT87	LED		
	D 968	SML-010PTT87	LED		
	D 969	SML-010PTT87	LED		
	D 970	SML-010PTT87	LED		
	D 971	SML-010PTT87	LED		
	D 972	SML-010PTT87	LED		
	D 974	MTZJT-915.1B	ZENER DIODE		
	IC151	NJM4565M	IC		
	IC301	TEA6320T	IC		
	IC321	HA13157	IC		
	IC501	TA2065F	IC		
	IC551	TC9284BF	IC		
	IC581	BA5924FP-E2	IC		
	IC591	LB1641	IC		
	IC595	TA78L05F-T12L	IC		
	IC901	TDA3603P-S	IC		
	IC951	LC75823E	IC		
	L 501	QQL244K-4R7Z	INDCTER		
	L 551	QQL244K-4R7Z	INDCTER		
	L 601	QQL244K-4R7Z	INDVTER		
	L 701	QQL244K-4R7Z	INDCTER		
	L 901	VTC28AS-20A	CHOKE COIL		
	PL952	QLL0002-001	LAMP		
	PL954	QLL0002-001	LAMP		
	Q 321	DTC114EKA-X	TRANSISTOR		
	Q 501	2SA1037AK(RS)-X	HIP TRANSISTOR		
	Q 661	DTA114EKA-X	TRANSISTOR		
	Q 701	DTC114EKA-X	TRANSISTOR		
	Q 702	2SC2412KK1	TRANSISTOR		
	Q 731	2SC2412KK1	TRANSISTOR		
	Q 732	2SC2412KK1	TRANSISTOR		
	Q 791	2SB1197K(Q,R)-X	TRANSISTOR		
	Q 792	2SA1037AK(RS)-X	HIP TRANSISTOR		
	Q 793	DTC114EKA-X	TRANSISTOR		
	Q 901	2SD1994A(R,S)TA	TRANSISTOR		
	Q 902	DTA144EKA-X	TRANSISTOR		
	Q 903	2SC2412KK1	TRANSISTOR		
	Q 904	DTA114EKA-X	TRANSISTOR		
	Q 905	DTC114EKA-X	TRANSISTOR		
	Q 906	DTA114EKA-X	TRANSISTOR		
	Q 911	2SA1037AK(RS)-X	HIP TRANSISTOR		
	Q 921	2SB1187(F,G)	TRANSISTOR		
	Q 922	2SD1994A(R,S)TA	TRANSISTOR		
	Q 923	DTA114EKA-X	TRANSISTOR		
	Q 924	DTC114EKA-X	TRANSISTOR		
	R 101	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 102	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 151	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 152	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 153	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 154	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 155	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 156	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 157	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 158	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 159	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 201	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 202	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 251	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 252	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 253	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 254	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 255	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 256	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 257	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 258	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 259	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-683NY	MG RESISTOR	68K 5% 1/10W	
	R 308	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R 309	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 310	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 321	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 322	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 323	NRSA02J-273NY	MG RESISTOR	27K 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-683NY	MG RESISTOR	68K 5% 1/10W	
	R 408	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R 409	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 410	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 501	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R 502	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R 503	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R 504	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R 505	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R 506	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
	R 507	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 508	NRSA02J-184NY	MG RESISTOR	180K 5% 1/10W	
	R 509	NRSA02J-470NY	MG RESISTOR	47 5% 1/10W	
	R 510	NRSA02J-470NY	MG RESISTOR	47 5% 1/10W	
	R 511	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 512	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 514	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 515	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 516	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 517	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 518	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 521	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
	R 522	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
	R 523	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R 524	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 525	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R 526	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 527	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 531	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 532	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 533	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 534	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 535	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 536	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 537	NRSA02J-225NY	MG RESISTOR	2.2M 5% 1/10W	
	R 538	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
	R 539	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 540	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 551	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 552	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 553	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 554	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 555	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 556	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 557	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 561	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 562	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 563	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 564	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 571	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 572	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 573	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 574	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R 575	NRSA02J-225NY	MG RESISTOR	2.2M 5% 1/10W	
	R 576	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 581	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 582	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 583	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
	R 584	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	R 601	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 602	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 603	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 604	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 605	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 606	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 607	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 608	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 609	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 610	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 611	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 612	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 613	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 614	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 615	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 616	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 617	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 618	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 624	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 625	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 626	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 627	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 628	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 629	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 630	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 643	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 644	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 645	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
	R 661	QRD141J-472	CARBON RESISTOR	4.7K 5% 1/4W	
	R 672	NRSA02J-224NY	MG RESISTOR	220K 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 706	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W	
	R 708	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 709	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 710	NRSA02J-472NY	MG RESISTOR	4.7K 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	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 791	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 792	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 793	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 794	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 795	NRSA02J-150NY	MG RESISTOR	15 5% 1/10W	
	R 796	NRSA02J-150NY	MG RESISTOR	15 5% 1/10W	
	R 901	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 902	QRD141J-472	CARBON RESISTOR	4.7K 5% 1/4W	
	R 903	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 904	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 905	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 906	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 907	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R 909	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 911	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 912	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 921	QRX01DJ-R47X	M.F.RESISTOR	5% 1/1W	
	R 922	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 923	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 924	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 951	NRSA02J-513NY	MG RESISTOR	51K 5% 1/10W	
	R 952	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W	
	R 954	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 955	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 957	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 958	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 959	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 960	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 961	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
	R 962	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 963	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 964	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 965	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 966	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 967	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 975	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 976	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 977	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 978	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 979	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 980	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 981	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 982	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 983	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 984	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 985	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 986	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 987	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 988	NRSA02J-511NY	MG RESISTOR	510 5% 1/10W	
	R 989	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 990	NRSA02J-911NY	MG RESISTOR	910 5% 1/10W	
	R 991	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R 992	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 993	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	S 951	NSW0039-001X	TACT SWITCH	"6"	
	S 952	NSW0039-001X	TACT SWITCH	"5"	
	S 953	NSW0039-001X	TACT SWITCH	"AM"	
	S 954	NSW0039-001X	TACT SWITCH	"FM"	
	S 955	NSW0039-001X	TACT SWITCH	"CD"	
	S 956	NSW0039-001X	TACT SWITCH	"LOUD"	
	S 957	NSW0039-001X	TACT SWITCH	"SOUND"	
	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	"RPT/MO"	
	S 970	NSW0039-001X	TACT SWITCH	"RANDOM"	
	S 971	NSW0039-001X	TACT SWITCH	"SCAN"	
	S 972	NSW0039-001X	TACT SWITCH	"B.SKIP/DOWN"	
	TU701	QAU0004-001	TUNER		
	VR501	QVZ3523-154AZ	V.RESISTOR		
	X 551	VCX5016-934V	CRYSTAL		
	X 601	VCX5026-001Z	CRYSTAL		

10. Packing

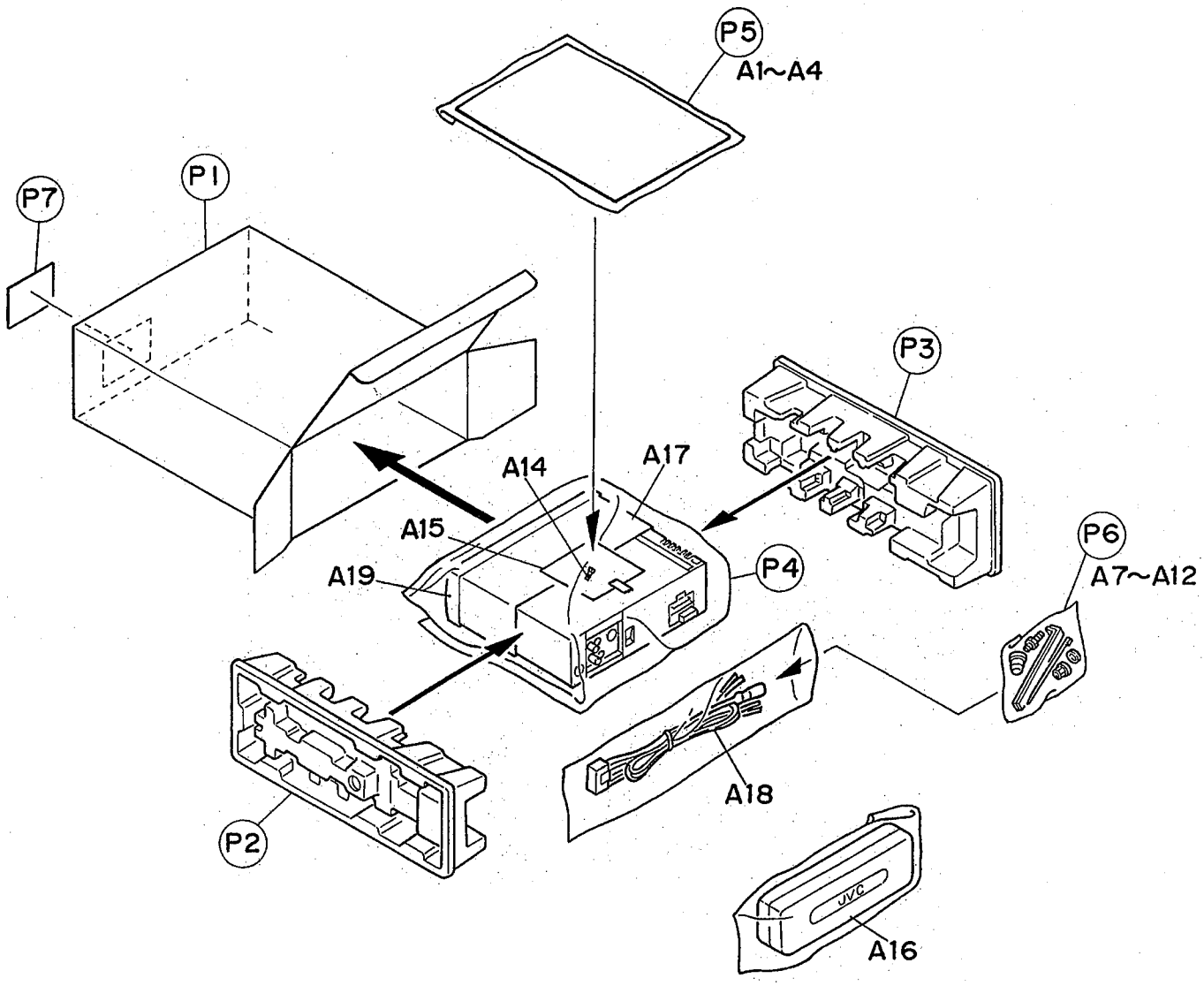

Fig.10-1

● **SCREW KIT 1**

A7 Plug Nut VKZ4027−002	A10 Washer WNS5000Z
A8 Mount Bolt VKH4871−001	A11 Hook FSKL4010−002
A9 Lock Nut VKH4328−001	A12 Tie Band E308918−001

● **SCREW KIT 2**

A14 Screw SPSF1780M

A15 Sheet FSYA4001−001

■ Packing Parts List

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPE3001-033	CARTON		1		
	P 2	FSPH1010-001	PAPER CUSHION	RIGHT SIDE	1		
	P 3	FSPH1009-001	PAPER CUSHION	LEFT SIDE	1		
	P 4	VPE3005-066	POLY BAG	SET(260X440X0.0	1		
	P 5	QPGA017-02505	POLY BAG	INST.BOOK	1		
	P 6	QPGA008-01205	POLY BAG	FOR KIT1	1		
	P 7	----------	CAUTON LABEL	FOR INNER CARTO	1		

■ Accessories

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN3021-631S	INSTRUCTIONS		1		
	A 2	VNC2400-090	CAUTION SHEET		1		
		VNC2400-098	CAUTION SHEET		1		
	A 3	BT-51009-2S	WARRANTY CARD		1	J	
		BT-52001-3S	WARRANTY CARD		1	C	
	A 4	BT-20071B	SVC CENTER LIST		1	C	
		BT-20137	SERVICE NETWORK		1	J	
	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 12	E308918-001	TIE BAND		1		
	A 14	SPSF1780M	MINI SCREW		1		
	A 15	FSYA4001-001	SHEET		1		
	A 17	FSKM2004-001	MOUNTING SLEEVE		1		
	A 18	QAM0013-001	16P CORD ASS'Y		1		
	A 19	FSJD2019-001	TRIM PLATE		1		
	KIT 1	KSRT620K-SCREW1	SCREW PARTS KIT	A7-A12	1		
	KIT 2	KSRT320K-SCREW2	SCREW PARTS LIT	A14,A15	1		

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

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