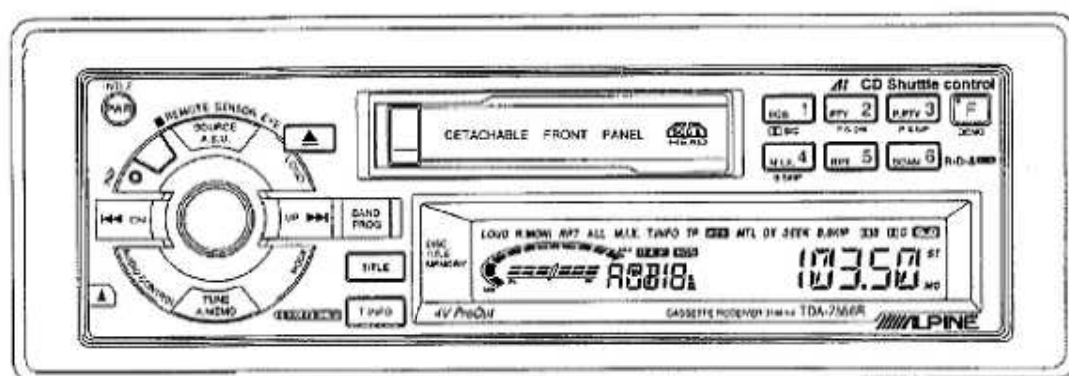


////ALPINE SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

CD Shuttle Controller

- The model described in this manual is developed from Model TDM-7531R/TDM-7532R/TDM-7535R. For information that is not mentioned in this service manual, refer to the Service Manual • TDM-7531R/TDM-7532R/TDM-7535R (Part No. 68E21961S01).
- For the cassette deck mechanism parts (GR75S120/130) of this model, refer to the Service Manual • GR-S Series (Part No. 68E23241S01).



(TDA-7556R)

**TDA-7556R/TDA-7659R/
TDA-7552R/TDA-7550R**

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Tuner Schematic Diagram ——— Refer to the Service Manual • TDM-7531R/TDM-7532R/TDM-7535R
(Part No. 68E21961S01).

Specifications

NOTE: Refer to the Service Manual • TDM-7531R/7532R/7535R (Part No. 68E21961S01) for description not mentioned in this manual.

TAPE PLAYER

S/N Ratio (Volume Display 22 Position) Dolby OFF: 52dB
Dolby B • NR : 60.5dB
Dolby C • NR : 67dB (●●△)

GENERAL

Power Output (T.H.D. 10%)/Impedance 16W/ch/4ohm (○△□)
Pre Output Voltage/Impedance..... 1V/10kohm
Dimensions (W×H×D) Chassis : 178×50×152mm
Nose : 170×46×18mm
Weight 1.4kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

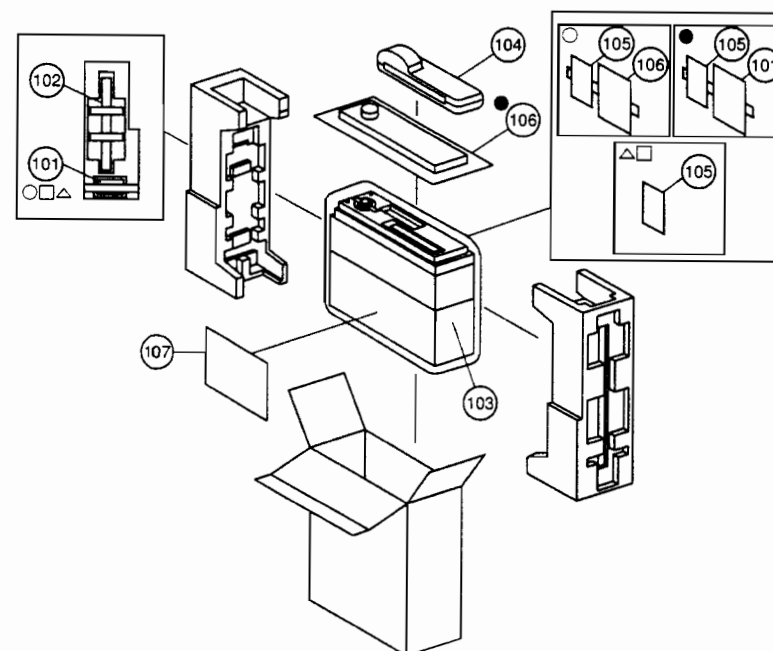
○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only Others : Common.

Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101-1	02B47353F01	Nut, Hex. (M5)	104	15D60773W01	Carrying Case
101-2	03S72235F13	Screw, Countersink (M5X8)	○ 105	01T85297W01	Assy., ISO Wire
101-3	46A42363F01	Stud, Bolt	● 105	01T85297W02	Assy., ISO Wire
101-4	36A11113W01	Cap, Rubber (A)	△ 105	01T85297W01	Assy., ISO Wire
101-5	03A11112W01	Bolt, Hex. (M5) (A)	□ 105	01T85297W01	Assy., ISO Wire
101-6	01T75363W01	ISO / JASO Antenna Adapter	○ 106	01T75235W05	Assy., Card Remocon
○ 101-7	60S70585F01	Battery, Lit. 3V (CR2025)	● 106	01T75436W01	Unit, Remocon
● 101-7	60T55630W01	Battery, MGN R03(NB)UM-4	107	68P80683W20	Owner's Manual
102	07B64552F01	Bracket, Strap Receiver			
103	15D50406W01	Case, Inner			

NOTE : ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others : Common.

Packing Method View



NOTE : ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others : Common.

Adjustment Procedures

1. FM SECTION

(1) Dummy Antenna Circuit

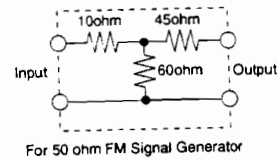


Figure 1

(2) Connections

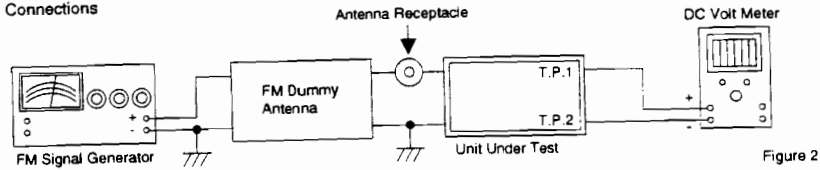


Figure 2

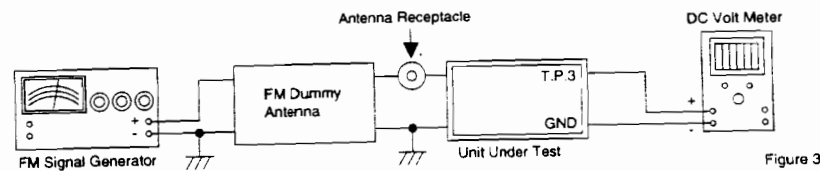


Figure 3

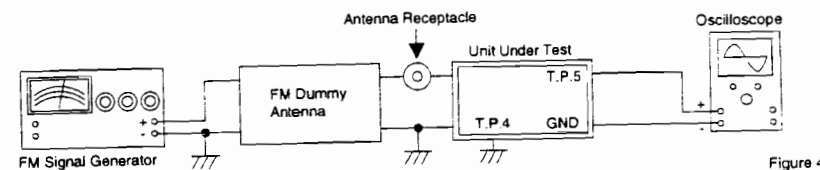


Figure 4

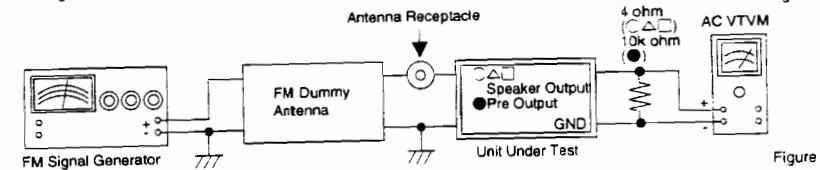


Figure 5

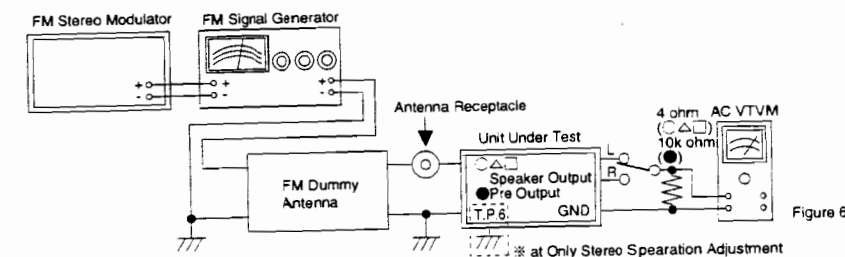


Figure 6

(3) Control Settings

Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble/Bass Control	Center Position
Band Switch	FM
Others	OFF

(4) Adjustment Procedures

Step	Description	Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment	Figure 2	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 to 0 ± 15mV.
2	Signal Meter Adjustment	Figure 3	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3	Adjust VR2101 to 3.5 ± 0.1V.
3	Seek Stop Adjustment	Figure 4	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5	Adjust VR2104 for the waveform changing to maximum output. Figure: Waveform of T.P.5 output. Stop the adjust VR2104 at this time.
4	Noise Level Adjustment	(1) Figure 5	98.1MHz, 72dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	○△□ Speaker Output	Adjust VOLUME to obtain 2V output. This value is 0dB.
		(2) Figure 5	98.1MHz, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	● Pre Output	Adjust VOLUME to obtain 400mV output. This value is 0dB.
5	Stereo Blend Adjustment (Lch)	Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	Adjust VR2102 for Lch and Rch output level difference to be 8 ± 2dB.
6	Stereo Separation Adjustment (Lch)	Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
7	Stereo Blend Adjustment (Rch)	Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	Proceed same adjustment under step 5.
8	Stereo Separation Adjustment (Rch)	Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	○△□ Speaker Output ● Pre Output	Proceed same adjustment under step 6 by alternating Lch and Rch.

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only, □: For TDA-7550R Model Only, Others: Common.

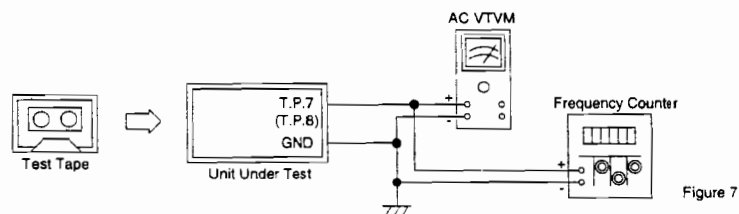
2. TAPE PLAYER SECTION**(1) Connection**

Figure 7

(2) Control Settings

Power Switch ON
 Fader Control Center Position
 Balance Control Center Position
 Treble/Bass Control Center Position
 Others OFF

(3) The necessities for adjustment

GR-S Extension Cord
 Assy., EX Cord Kit for GR-S Mechanism
 Part No. 01E23255S01
 See Adjustment Locations (Figure 10).

(4) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	Head Azimuth Adjustment Screws (Figure 8)	Adjust for Max. and same level output at Forward and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	VR201 (Lch) VR202 (Rch)	Adjust for 388mV $\pm$ 1dB at T.P.7 (Lch) and T.P.8 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 7	T.P.7 (Lch) or T.P.8 (Rch)	Tape Speed Adjustment (Figure 9)	Adjust for 2.970 to 3.090Hz at T.P.7 (T.P.8).

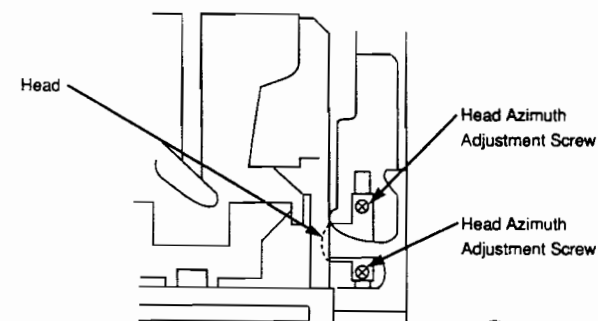
Adjustment Locations

Figure 8

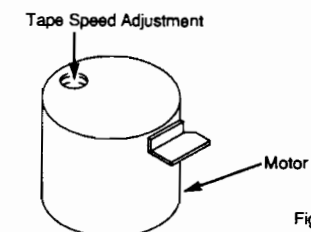


Figure 9

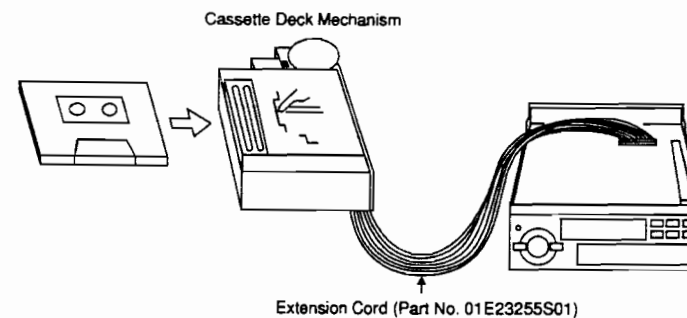
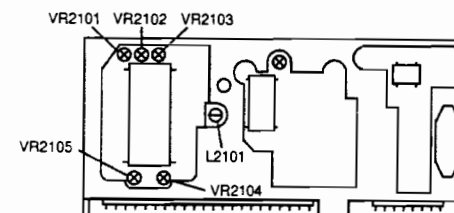


Figure 10



FM/MW/LW Tuner Unit (FE001)

NOTE: For the Adjustment parts (VR201, VR202) and Test Points (T.P.1 ~6), refer to the Parts Layout on P.C. Boards and Wiring Diagram.

Description of IC Terminal

85151W08 : IC501

No.	Symbol	I/O	Terminal Description
1	●● NFP EV DATA △□ NC	O —	E.VOL DATA output terminal for ADJ-NFP. No connection terminal.
2	NOSE PWR	O	Power Control signal output terminal to NOSE
3	●●△ BUZZER □ NC	O —	Guide Tone signal output terminal. No connection terminal.
4	DTS START	O	Data START signal output terminal to DTS μ-COM.
5	DTS MUTE	I	Mute signal input terminal from DTS μ-COM.
6	DTS CE	O	CE signal output terminal to DTS μ-COM.
7	ALARM	O	ALARM signal output terminal.
8	●● NFP EV CE △□ NC	O —	E.VOL CE output terminal for ADJ-NFP. No connection terminal.
9	GND	—	GND terminal.
10	DOLBY B	O	Dolby B • NR ON/OFF signal output terminal. H: OFF / L: ON
11	●●△ DOLBY C □ NC	O —	Dolby C • NR ON/OFF signal output terminal. H: OFF / L: ON No connection terminal.
12	L.O. FAST	O	Gain Control signal output terminal for MS IC at CUE/REV. H: CUE/REV, L: PLAY
13	FOR/REV	O	Tape Direction indicator output terminal. H: FOR / L: REV
14	O.MOTOR	O	Motor Rotation Control output terminal. H: ROTATE / L: STOP
15	R-IN	O	Sub Motor Rotation Control output terminal.
16	F-IN	O	R-IN: H (CCW)/L (CW)/H (BRAKE)/L (OFF), F-IN: L (CCW)/H (CW)/L (BRAKE)/H (OFF)
17	MTR FAST	I	Main Motor Rotation Control input terminal. H: High Speed / L: Stabilization
18	M.S. DET	I	Music Sensor Detection signal input terminal.
19	METAL	I	Metal Tape Detection terminal. H: METAL / L: NORMAL
20	PACK IN	I	Pack In Detection terminal. H: PACK IN / L: PACK OUT
21	REV.DET	I	REV REEL Rotation Detection input terminal.
22	MODE SW	I	Mode Detection input terminal.
23	FOR DET	I	FOR REEL Rotation Detection input terminal.
24	GND	—	GND terminal.
25	PAUSE SW	I	Pause Mode Detection input terminal.
26	MUTE	O	Audio Mute signal output terminal.
27	NFP-1	O	NFP Control signal output terminal. H: FAD-F / L: OTHERS
28	NFP-2	O	NFP Control signal output terminal. H: FAD-R / L: OTHERS
29	EV-DATA	I/O	Serial Data output to E.VOL/ACK input from E.VOL terminal.
30	EV-CLK	O	Serial Clock output terminal to E.VOL.
31	PWR IC	O	Stand-by Control output terminal for Power IC.
32	PWR ON	O	Power Control signal output terminal.
33	NC	—	No connection terminal.
34	BUS OUT	O	Signal output terminal to BUS I/F.
35	RESET	I	System Reset input terminal.
36	REMOCON	I	Remocon Data input terminal.
37	BUS IN	I	Signal input terminal from BUS I/F.
38	ACC DET	I	ACC Detection signal input terminal.
39	BAT DET	I	BATT Detection signal input terminal.
40	VDD	—	Power Supply terminal.

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others : Common.

No.	Symbol	I/O	Terminal Description
41	X2	O	System Clock OSC connection terminal. (8.38MHz)
42	X1	I	
43	GND	—	GND terminal.
44	NC	—	No connection terminal.
45	GND	—	GND terminal.
46			
47	AI-NET IN/OUT	I	Audio signal switching input terminal. H: Outer AMP / L: Inner AMP
48	●● IN INT △□ PULL-DOWN	I —	Mutual Reset IN-INT signal input terminal. Pull-Down terminal.
49	MODEL	I	A/D input terminal for Model Set Up.
50	ENCODER 1	I	
51	ENCODER 2	I	Encoder Data input terminal.
52	GND	—	GND terminal.
53			
54	NOSE-DET	I	Nose Detection input terminal.
55			
56	VDD	—	Power Supply terminal.
57	LCD DO	I	Serial Data input terminal from LCD Driver.
58	LCD DI	O	Serial Data output terminal to LCD Driver.
59	LCD CLK	O	Serial Clock output terminal to LCD Driver.
60	LCD CE	O	Serial Data CE signal output terminal to LCD Driver.
61	LCD RST	O	Reset signal output terminal to LCD Driver.
62	DTS STS	I	Serial Data input terminal from DTS μ-COM.
63	DTS CMD	O	Serial Data output terminal to DTS μ-COM.
64	DTS CLK	O	Serial Clock output terminal to DTS μ-COM.

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others : Common.

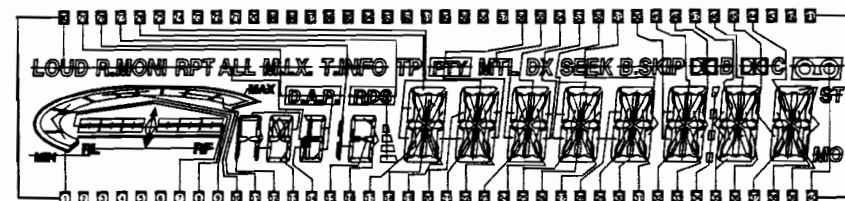
85088W01 : IC502

No.	Symbol	I/O	Terminal Description
1	LW	O	LW band selection output terminal.
2	LO/DX	O	Local/DX control output terminal. H: During SEEK LOCAL
3	NC	—	No Connection terminal.
4	AVSS	—	GND terminal for A/D converter.
5	LPF SW	O	LPF time constant switching terminal at AF CHECK.
6	IF MUTE	O	IF Mute output terminal.
7	AVREF1	—	Reference voltage terminal for A/D Converter.
8	RXD	I	RDS Monitor input terminal (Pull-Up terminal).
9	TXD	O	RDS Monitor output terminal (No Connection terminal).
10	SYNC	O	SYNC signal output terminal (No Connection terminal).
11	PLL CLK	O	Clock output terminal to PLL.
12	PLL DATA	O	Data output terminal to PLL.
13	PLL CE	O	Data communication control signal output terminal to PLL.
14	DTS MUTE	O	Audio mute output terminal.
15	DTS START	I	DTS data start input terminal.
16	DTS CMD	I	Command input terminal from Main μ-COM.
17	DTS STS	O	Status output terminal to Main μ-COM.
18	DTS CLK	I	Communication clock signal input terminal from Main μ-COM.

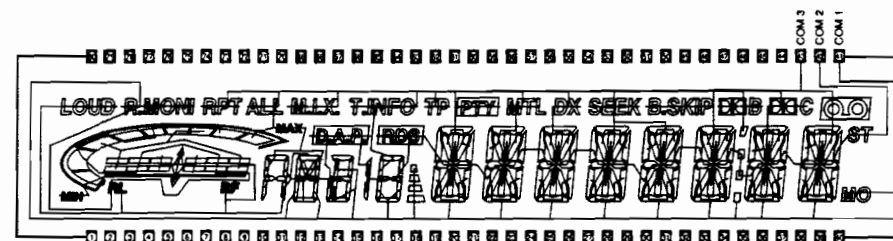
No.	Symbol	I/O	Terminal Description
19	NC	—	No Connection terminal.
32			
33	GND	—	GND terminal.
34	NC	—	No Connection terminal.
57			
58	FM/AM	O	FM/AM mode switching signal output terminal. H: FM
59	AUDIO IN	I	Audio xerox Detection terminal.
60	RESET	I	System reset input terminal.
61	RDS CLK	I	RDS clock input terminal from RDS Decoder.
62	RDS DATA	I	RDS data input terminal from RDS Decoder.
63	DTS CE	I	DTS CE input terminal.
64	NC	—	No Connection terminal.
66			
67	50K REF	O	L.P.F. switching output terminal at RDS mode.
68	VDD	—	Power supply terminal.
69	X2	—	System clock OSC connection terminal. (4.9152 MHz)
70	X1	—	
71	GND	—	GND terminal.
72	NC	—	No Connection terminal.
73	PLL DATA I	I	PLL Data input terminal.
74	AVDD	—	Analog power supply terminal for A/D converter.
75	AVREF0	—	Reference voltage terminal for A/D converter.
76	S.METER	I	Signal meter voltage input terminal.
77	A/I	I	Port detects adjoining rejection interference of station.
78	M.P	I	Port detects multi path interference of station.
79	ST	I	ST signal input terminal.
80	SD	I	Station detector signal input terminal.

LCD Display

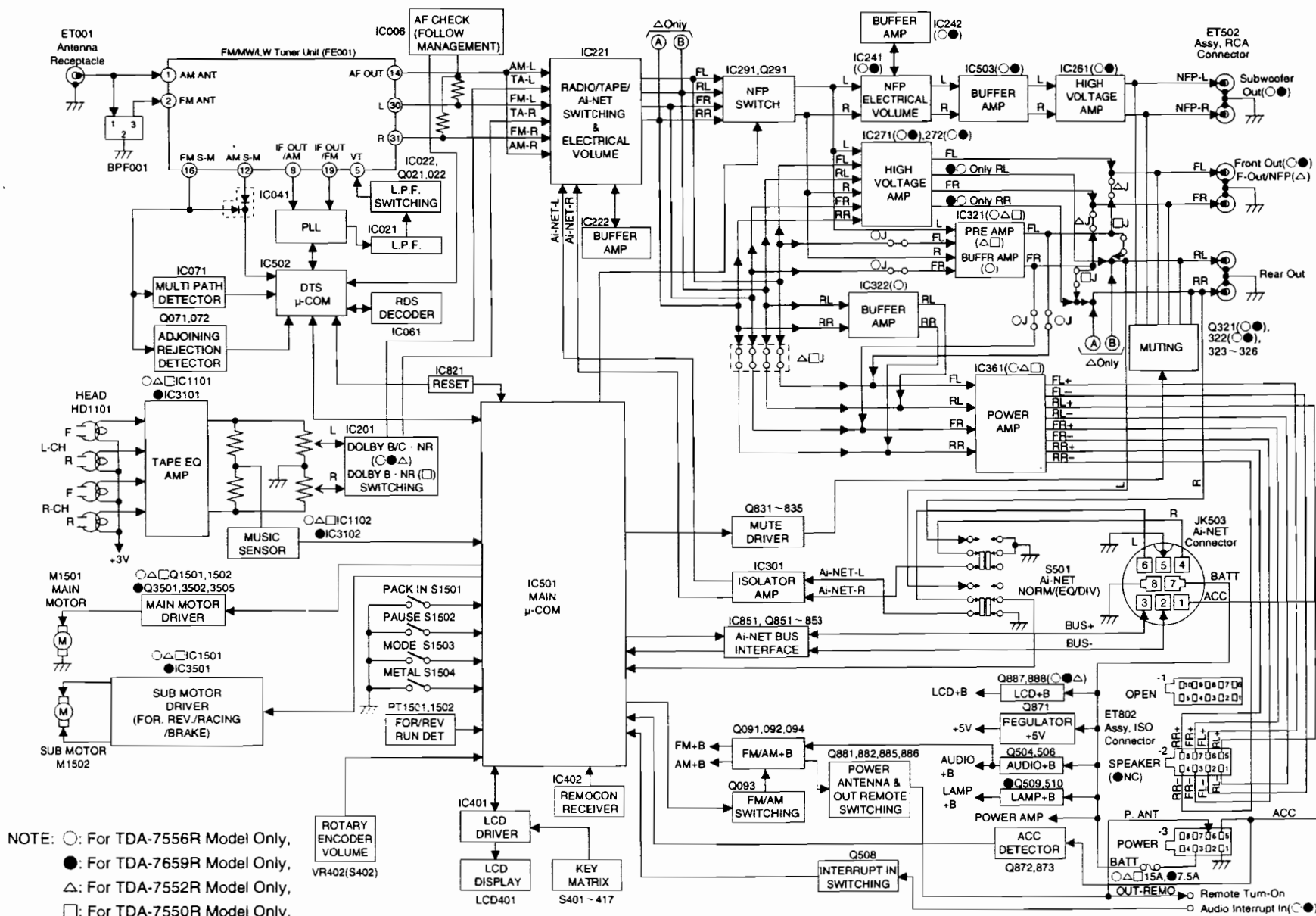
SEGMENT



COMMON



Block Diagram



Parts Layout on P.C. Boards and Wiring Diagram (1/4)

1

2

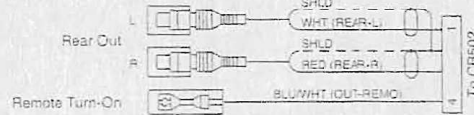
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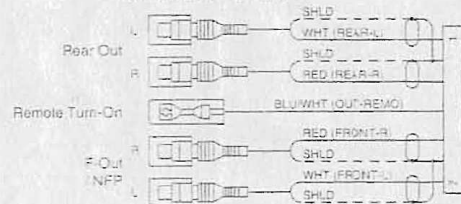
5

Main P.C. Board (Component Side View)

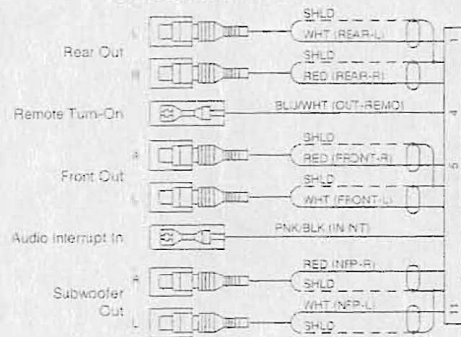
ET502
□ Assy., RCA Connector



△ Assy., RCA Connector



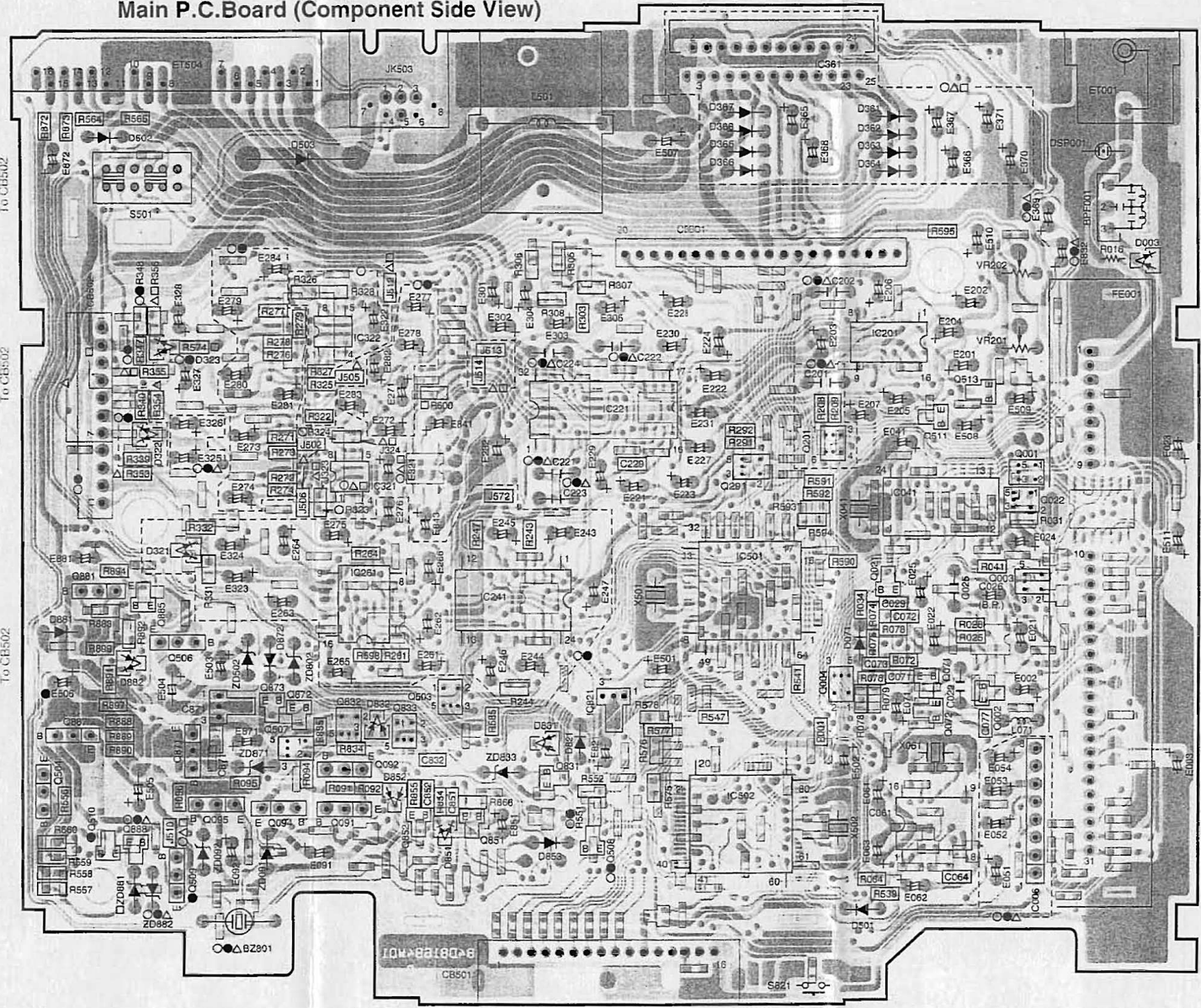
● Assy., RCA Connector



NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7559R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

From GR Control P.C. Board (○△□CB1101, ●CB3101)

To CB801



From Front P.C. Board (CH401)

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

A

B - 13 -

C

D

E

F - 14 -

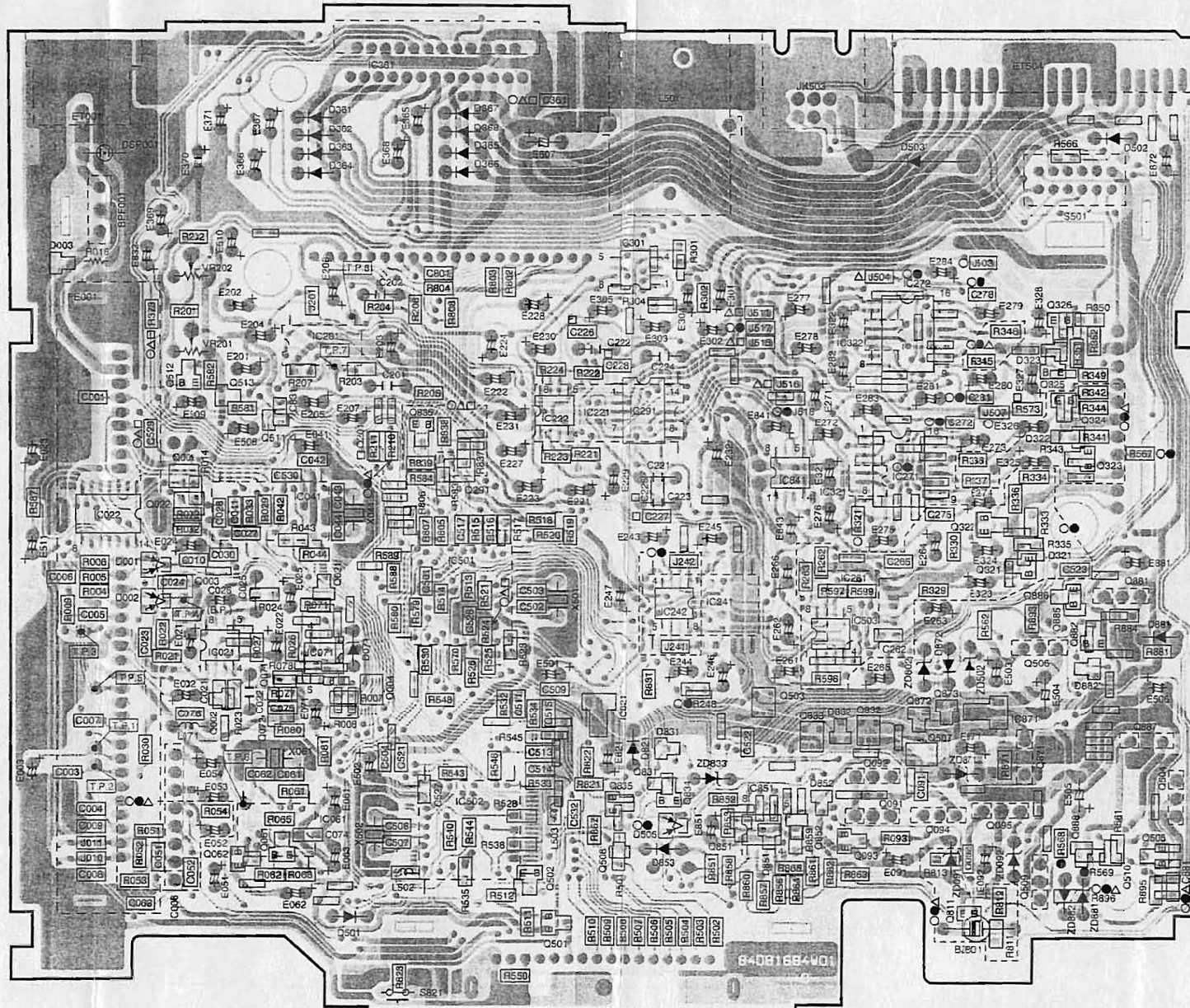
G

Parts Layout on P.C. Boards and Wiring Diagram (2/4)

TDA-7556R/7659R/
TDA-7552R/7550R

TDA-7556R/7659R/
TDA-7552R/7550R

Main P.C.Board (Foil Side View)



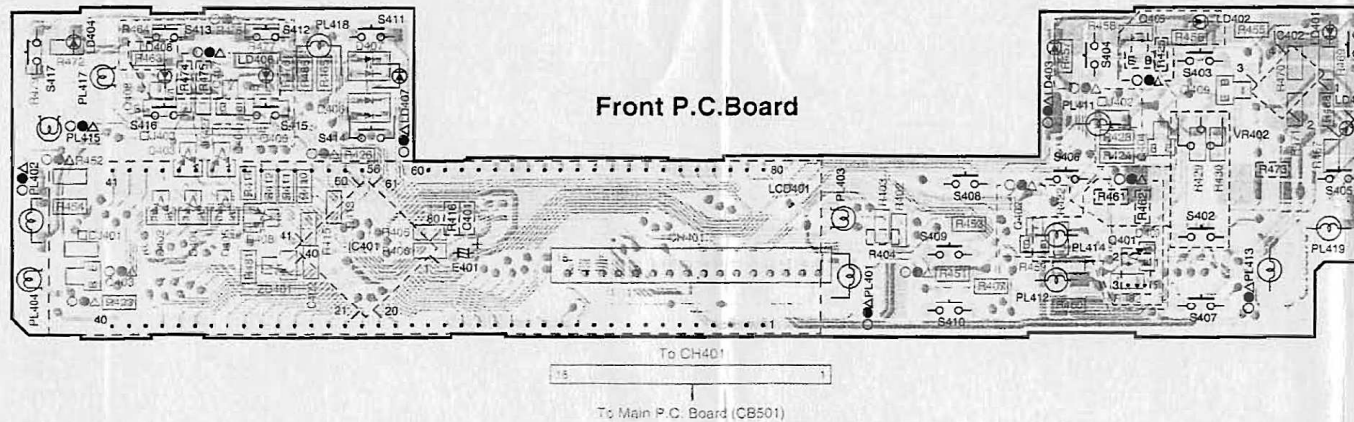
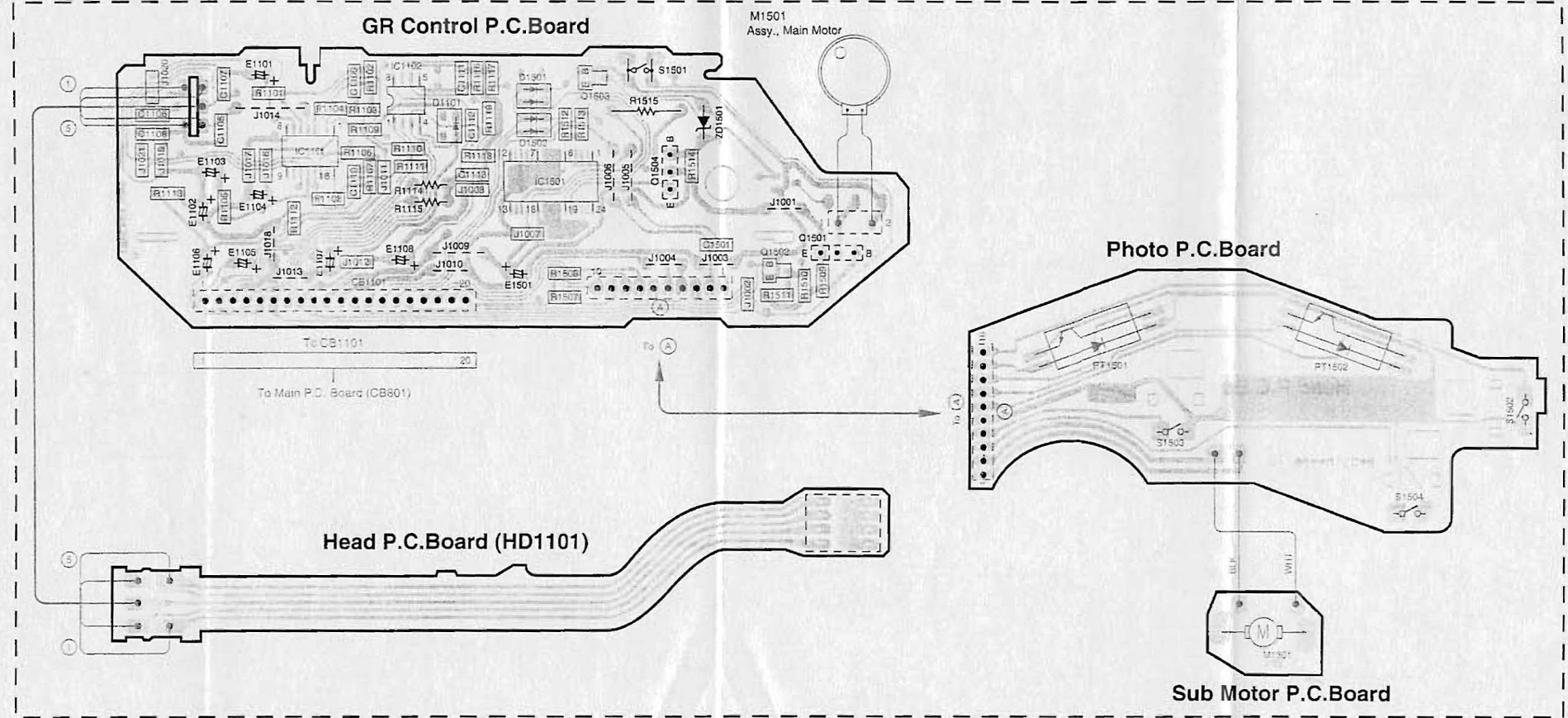
NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7659R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.C. Boards and Wiring Diagram (3/4)

All P.C. Boards viewed from soldered side.

○△□(TDA-7556R/TDA-7552R/TDA-7550R Model Only)



NOTE : ○ : For TDA-7556R Model Only
● : For TDA-7659R Model Only
△ : For TDA-7552R Model Only
□ : For TDA-7550R Model Only
Others : Common

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

A

B - 17 -

C

D

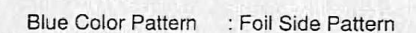
E

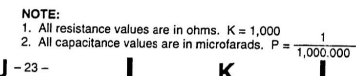
F - 18 -

G

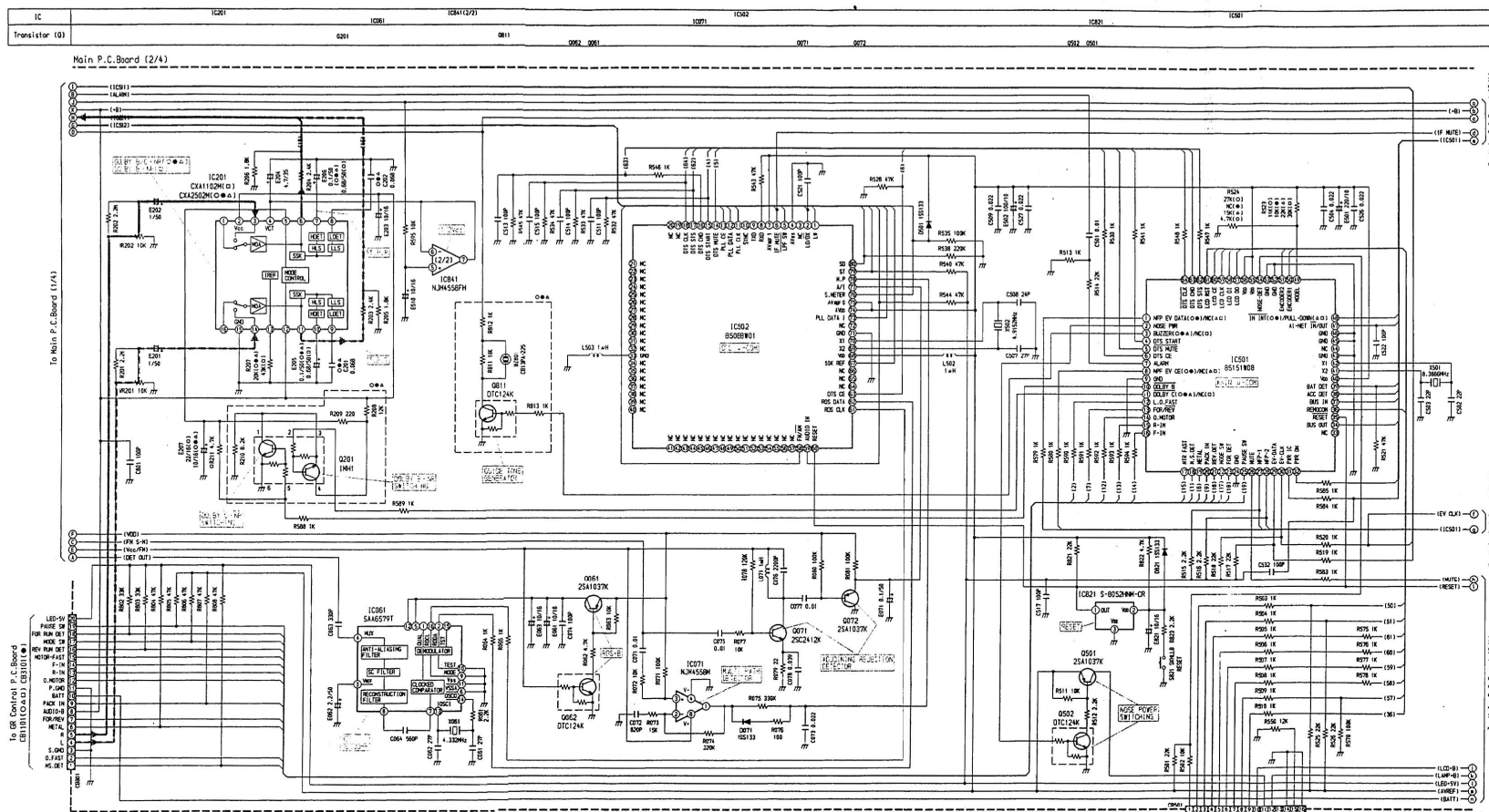
All P.C. Boards viewed from soldered side.

● (TDA-7659R Model Only)





1
2
3
4
5



IC061			IC071			IC502					
1	NC		1	4.7V	FM	1	SV	LW	60	DNV	RESET/ONOFF
2	SV	FM	4	OV		8	SHV	LOGR	81-83	DATA	
3	3.4V	FM	5-7	NC		9	SV	FM	84-88	NC	
5	4.8V	FM	8	SV		10	SV	FM	89	DNV	RES/ONOFF
6	4.8V	FM				11	SV	FM	90	SV	
9-11	OV		IC081			4	OV	FM	90.75	OSC	
12	4.8V	FM	1	7.5V	RESET/ONOFF	7-9	SV	FM	71	OV	
13	4.8V	FM	2	SV	RESET/ONOFF	10	NC	FM	72	OV	
14	13.5V	OSC	3	OV		11-13	DATA	73	DATA		
15	NC		ICB41			13-18	NC	74.75	OV	FM	
16	4.8V	FM	1	4.3V		33	OV	76	OV	FM	
			4	OV		34-37	NC	77.75	OV	FM	
			5-7	4.8V	TAPE	38	SHV	PRISM	79	DNV	STANDBY
						39	OV			FM	

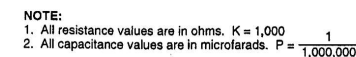
IC201		IC501				
1	NC	① SW	27-30	SV		
2	8SV	② AL1	NC	31	SHV	POWER OFF
3	4SV	③ SW	NC	32	SHV	POWER OFF
4	2V	④ SW	BUZZER	33	NC	
⑤ SW	⑤ SW	⑤ SW	34	DATA		
1.5	⑤ SW	⑥ NC	35	DATA		RESET ON/OFF
1.5	⑤ SW	⑦ PS	36	SHV		
5	4SV	⑧ PS	37	DATA		
7	⑦ SW	⑨ SW	38	DATA		
1.5	NC	⑩ SW	39	SHV		ACCONOFF
1.5	NC	⑪ SW	40	SHV		BATT OFF
⑫ SW	⑫ SW	12	SW	SV		
1.8	NC	13	⑫ SW	⑫ SW	41, 42	DSO
11	4SV	⑬ AL1	⑫ SW	⑬ SW	43	SV
11	4SV	⑭ SW	⑬ SW	⑭ SW	44	NC
10	8SV	15	⑭ SW	⑭ SW	45	SV
13	12V	16	⑮ SW	⑮ SW	46	SV
14	2V	17	⑮ SW	⑮ SW	47	SV
15	⑮ SW	18	⑮ SW	⑮ SW	48	SV
16	NC	19	⑮ SW	⑮ SW	49	SV
		20	⑮ SW	⑮ SW	50	SV
		21	⑮ SW	⑮ SW	51	SV
		22	⑮ SW	⑮ SW	52	SV
		23	⑮ SW	⑮ SW	53	SV
		24	⑮ SW	⑮ SW	54	SV
		25	⑮ SW	⑮ SW	55	SV
		26	⑮ SW	⑮ SW	56	SV
		27	⑮ SW	⑮ SW	57	SV
		28	⑮ SW	⑮ SW	58	SV
		29	⑮ SW	⑮ SW	59	SV
		30	⑮ SW	⑮ SW	60	SV

	1	2	3	4	5	6	MODE
*G00H1	DIV1/PMV1	DIV2/PMV2	DIV3/PMV3	SINVMV1	SINVMV2	SINVMV3	NORMAL/JACK BY BNC
E	C	B	A	MODE			
G0B1	4.9V	4.8V	4.2V	FM			<Measuring Conditions> 1. Power Supply Voltage : DC14V 2. Measuring Meter : Digital Multimeter 3. Measuring Point Reference : Between C and A 4. Measuring Conditions : No Signal
G0D1	OV	8.6V	0.9V	FM			FM : 98.1Hz
G0E1	4.9V	OV	9V	NOISE			AM : 99.9kHz
G0F1	SINVM	SINVM	NOISE	NOISE P. ON/OFF			TAPE: Bit Error Rate
G0G1	NOISE	SINVM	NOISE	NOISE P. ON/OFF			
G0H1	13.0V	OV	OV				

NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others: Common.

NOTE:

- NOTE:
1. All resistance values are in ohms. $K = 1,000$
 2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$



1



	1	2	3	4	5	MODE
Q201	DATA	DATA	DATA	OV	DATA	NFP

	E	C	B	MODE
Q201	OV/OV	OV/OV	OV/13.8V	MUTE ON/OFF
Q202	OV/OV	OV/OV	OV/13.8V	MUTE ON/OFF
Q203	OV/OV	OV/OV	OV/13.8V	MUTE ON/OFF
Q204	OV/OV	OV/OV	OV/13.8V	MUTE ON/OFF
Q205	OV/OV	OV/OV	OV/13.8V	MUTE ON/OFF

<Measuring Conditions>

1. Power Supply Voltage	: DC14V
2. Measuring Meter	: Digital Multi Meter
3. Measuring Point Reference	: Between Ground
4. Measuring Conditions	: No Signal Input FM : 98.1MHz AM : 999kHz (MW) TAPE: Blank Tape Play

NOTE: ○: For TDA-7558R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others : Common.

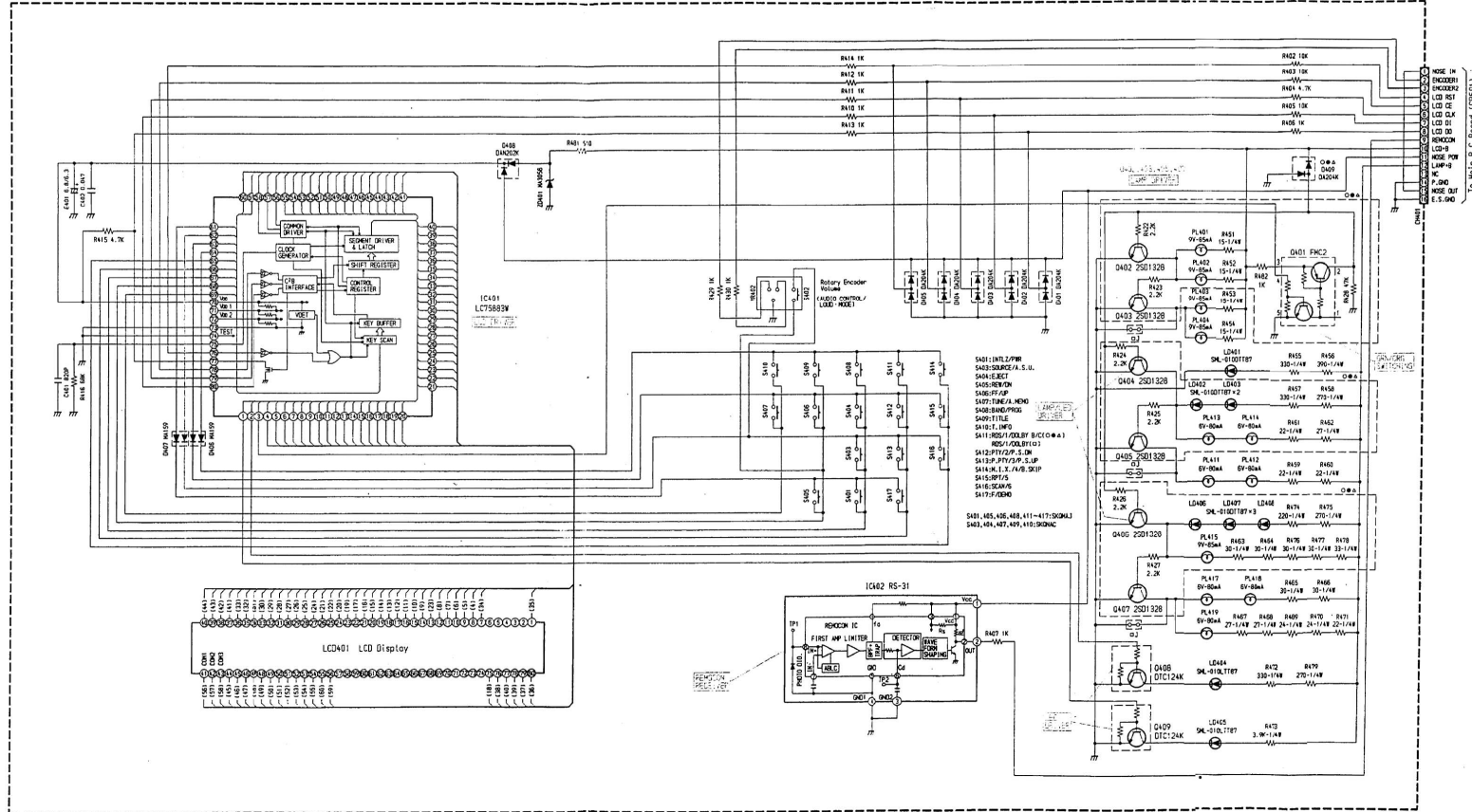
NOTE:

1. All resistance values are in ohms. $K = 1,000$
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (5/6)

IC	IC401	IC402	Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409	Q41
Transistor (Q1)				

Front P.C. Board



IC401	IC402
1 2	1 2
3 4	3 4
5 6	5 6
7 8	7 8
9 10	9 10
11 12	11 12
13 14	13 14
15 16	15 16
17 18	17 18
19 20	19 20
21 22	21 22
23 24	23 24
25 26	25 26
27 28	27 28
29 30	29 30
31 32	31 32
33 34	33 34
35 36	35 36
37 38	37 38
39 40	39 40
41 42	41 42
43 44	43 44
45 46	45 46
47 48	47 48
49 50	49 50
51 52	51 52
53 54	53 54
55 56	55 56
57 58	57 58
59 60	59 60
61 62	61 62
63 64	63 64
65 66	65 66
67 68	67 68
69 70	69 70
71 72	71 72
73 74	73 74
75 76	75 76
77 78	77 78
79 80	79 80
81 82	81 82
83 84	83 84
85 86	85 86
87 88	87 88
89 90	89 90
91 92	91 92
93 94	93 94
95 96	95 96
97 98	97 98
99 100	99 100

IC401	IC402
1 2	1 2
3 4	3 4
5 6	5 6
7 8	7 8
9 10	9 10
11 12	11 12
13 14	13 14
15 16	15 16
17 18	17 18
19 20	19 20
21 22	21 22
23 24	23 24
25 26	25 26
27 28	27 28
29 30	29 30
31 32	31 32
33 34	33 34
35 36	35 36
37 38	37 38
39 40	39 40
41 42	41 42
43 44	43 44
45 46	45 46
47 48	47 48
49 50	49 50
51 52	51 52
53 54	53 54
55 56	55 56
57 58	57 58
59 60	59 60
61 62	61 62
63 64	63 64
65 66	65 66
67 68	67 68
69 70	69 70
71 72	71 72
73 74	73 74
75 76	75 76
77 78	77 78
79 80	79 80
81 82	81 82
83 84	83 84
85 86	85 86
87 88	87 88
89 90	89 90
91 92	91 92
93 94	93 94
95 96	95 96
97 98	97 98
99 100	99 100

IC401	IC402
1 2	1 2
3 4	3 4
5 6	5 6
7 8	7 8
9 10	9 10
11 12	11 12
13 14	13 14
15 16	15 16
17 18	17 18
19 20	19 20
21 22	21 22
23 24	23 24
25 26	25 26
27 28	27 28
29 30	29 30
31 32	31 32
33 34	33 34
35 36	35 36
37 38	37 38
39 40	39 40
41 42	41 42
43 44	43 44
45 46	45 46
47 48	47 48
49 50	49 50
51 52	51 52
53 54	53 54
55 56	55 56
57 58	57 58
59 60	59 60
61 62	61 62
63 64	63 64
65 66	65 66
67 68	67 68
69 70	69 70
71 72	71 72
73 74	73 74
75 76	75 76
77 78	77 78
79 80	79 80
81 82	81 82
83 84	83 84
85 86	85 86
87 88	87 88
89 90	89 90
91 92	91 92
93 94	93 94
95 96	95 96
97 98	97 98
99 100	99 100

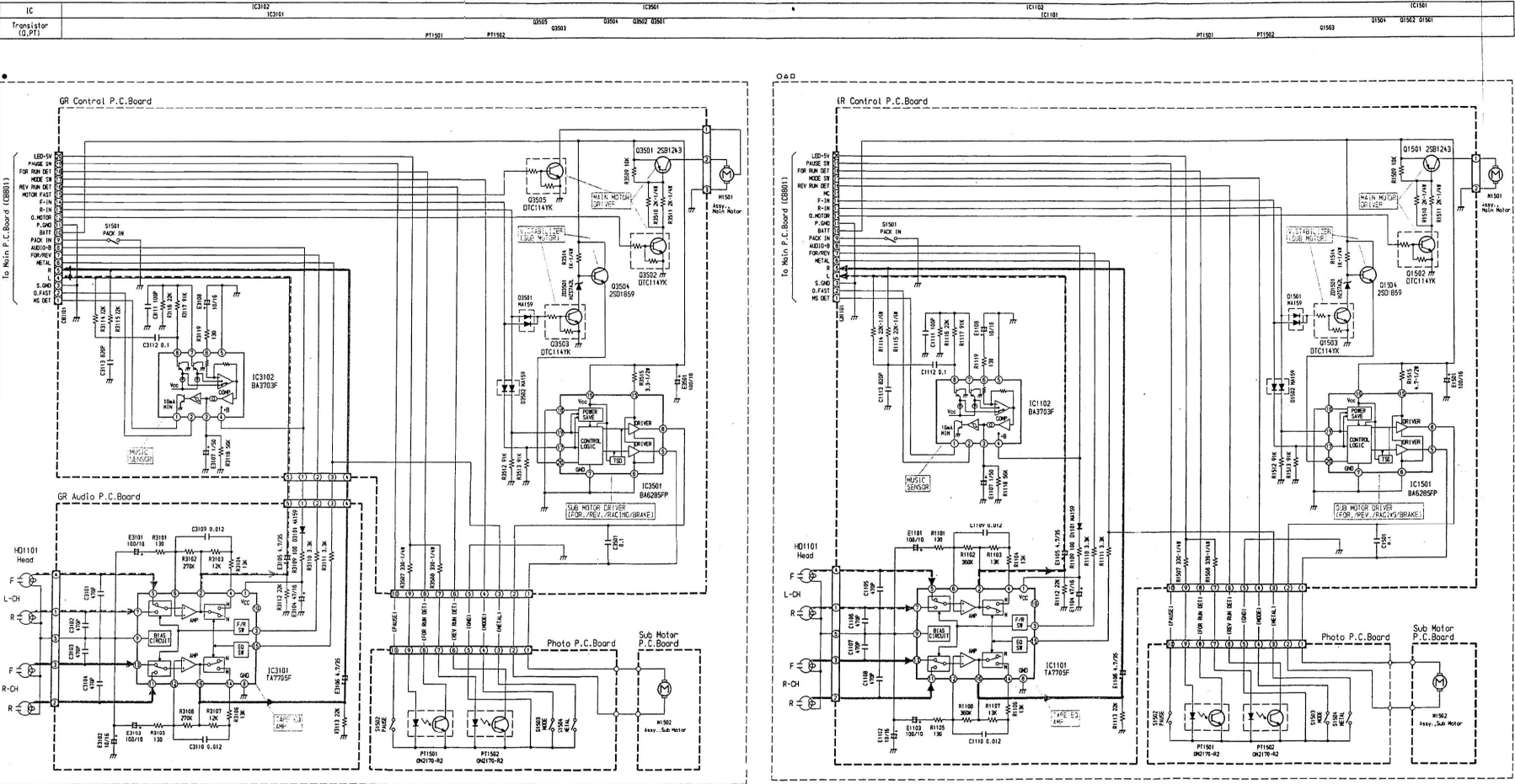
<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
FM : 98.1MHz
AM : 999kHz (MW)
TAPE : Blank Tape Play

NOTE: ○ : For TDA-7556R Model Only,
● : For TDA-7556R Model Only,
△ : For TDA-7552R Model Only,
□ : For TDA-7552R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K=1,000
2. All capacitance values are in microfarads. P=1,000,000

Schematic Diagram (6/6)



IC1101				IC1102				IC1501			
IC3101				IC3102				IC3501			
1	10V	9	3V	1	5.2V	2	0V	1-4	NC		
2	3.1V	10	NC	3	0V			5-8	0V		
3	5.2V	11	3V	4	0V			9-14	NC		
4	3.1V	12	3V	5	12V			15	12V		
5	3V	13	3V	6	0V			16	12V		
6	2V	14	3.1V	7	0.8V			17-19	0V		
7	2V	15	0V	8	0V			20	12V		
8	0V	16	3.1V					21-24	NC		

	F	C	B
IC101	12V	11.8V	11.3V
IC102	0V	0.1V	5V
IC103	0V	5.5V	0V
IC104	11.8V	12V	12V
IC105	12V	11.8V	11.3V
IC106	0V	0.1V	5V
IC107	0V	5.5V	0V
IC108	11.8V	12V	12V
IC109	0V	0.5V	0V

<Measuring Conditions>
1. Power Supply Voltage : DC12V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
FM : 98.1MHz
AM : 99kHz (MW)
TAPE : Blank Tape Play

NOTE: ○ : For TDA-7556R Model Only,
● : For TDA-7559R Model Only,
△ : For TDA-7552R Model Only,
□ : For TDA-7555R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads.
 $P = \frac{1}{1,000,000}$

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads, pF=picofarads

Abbreviations			Symbol No.	Part No.	Description
RES.= Resistor	CAP.= Capacitor				
C.F.= Carbon Film	ELY.= Electrolytic				
M.F.= Metal Film	CER.= Ceramic				
M.O.= Metal Oxide Film	MYL.= Mylar				
M.P.= Metal Plate	TAN.= Tantalum				
TR.= Transistor	POLY.= Polystyrol				
TRANS.= Transformer	PP.= Polypropylene				
CP.= Chip	PLT.= Polyethylene				
	PF.= Polyester Film				
Symbol No.	Part No.	Description			
Main P.C Board					
IC's					
○	IC006	51T67915F01	M51143AL		
●	IC006	51T67915F01	M51143AL		
△	IC006	51T67915F01	M51143AL		
	IC021	51T93336F01	NJM4558M		
	IC022	51T40941U03	MC14066BFL1		
	IC041	51T35504W02	LC7219		
	IC061	51T55054W02	SAA6579T		
	IC071	51T93336F01	NJM4558M		
○	IC201	51T85167W01	CXA2502M		
●	IC201	51T85167W01	CXA2502M		
△	IC201	51T85167W01	CXA2502M		
□	IC201	51T11210W01	CXA1102M		
	IC221	51T65131W01	TEA6320T		
○	IC222	51T92001F21	XRA4560F		
●	IC222	51T92001F21	XRA4560F		
△	IC222	51T65379F22	XRA4558FH		
□	IC222	51T65379F22	XRA4558FH		
	IC241	51T75584W01	TC9212F		
●	IC241	51T75584W01	TC9212F		
○	IC242	51T92001F21	XRA4560F		
△	IC242	51T92001F21	XRA4560F		
□	IC242	51T92001F21	XRA4560F		
○	IC261	51T75464W01	TDA8576T		
●	IC261	51T75464W01	TDA8576T		
△	IC261	51T75464W01	TDA8576T		
□	IC271	51T75464W01	TDA8576T		
○	IC271	51T75464W01	TDA8576T		
△	IC272	51T75464W01	TDA8576T		
□	IC272	51T75464W01	TDA8576T		
○	IC291	51T40941U03	MC14066BFL1		
●	IC301	51T92001F21	XRA4560F		
△	IC301	51T90149F03	M5218AFP		
□	IC301	51T65379F22	XRA4558FH		
○	IC301	51T65379F22	XRA4558FH		
△	IC321	51T65379F22	XRA4558FH		

Symbol No.	Part No.	Description
△	C321	51T65379F22
□	C321	51T65379F22
○	C322	51T65379F22
○	C361	51T85153W01
△	C361	51T85153W01
□	C361	51T85153W01
	C501	51T85151W08
	C502	51T85088W01
○	C503	51T92001F21
●	C503	51T92001F21
	C821	51T95014F13
	C841	51T65379F22
	C851	51T93332F01
	C871	51T95014F09
Transistors		
	Q001	48T73888F08
	Q002	48T62967F03
	Q003	48T73888F08
	Q004	48T73888F08
	Q021	48T62967F03
	Q022	48T73888F08
	Q061	48T63420F01
	Q062	48T62967F03
	Q071	48T63417F01
	Q072	48T63420F01
	Q091	48T84234F03
	Q092	48T84234F03
	Q093	48T62967F03
	Q094	48T15289W03
	Q095	48T93828F04
○	Q201	48T94471F03
●	Q201	48T94471F03
△	Q201	48T94471F03
	Q291	48T73888F08
○	Q321	48T63788F04
●	Q321	48T63788F04
□	Q322	48T63788F04
○	Q322	48T63788F04
△	Q323	48T63788F04
□	Q323	48T63788F04
○	Q323	48T63788F04
●	Q323	48T63788F04
△	Q323	48T62967F33
□	Q324	48T63788F04
○	Q324	48T63788F04
●	Q324	48T63788F04

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Q324	48T62967F33	CP., DTC343TK	Diodes / Surge Protector		
Q325	48T63788F04	CP., 2SD1328	D001	48T52446F01	CP. MA151WK
Q325	48T63788F04	CP., 2SD1328	D002	48T52446F01	CP. MA151WK
Q325	48T62967F33	CP., DTC343TK	D003	48T64134F01	CP., DA204K
Q325	48T62967F33	CP., DTC343TK	D071	48T68828F11	1SS133
Q326	48T63788F04	CP., 2SD1328	D321	48T63463F01	CP., DAP202K
Q326	48T63788F04	CP., 2SD1328	D321	48T63463F01	CP., DAP202K
Q326	48T62967F33	CP., DTC343TK	D322	48T63463F01	CP., DAP202K
Q326	48T62967F33	CP., DTC343TK	D322	48T63463F01	CP., DAP202K
Q501	48T63420F01	CP., 2SA1037K	D323	48T63463F01	CP., DAP202K
Q502	48T62967F03	CP., DTC124K	D323	48T63463F01	CP., DAP202K
Q503	48T73888F12	CP., FMC2	D361	48T85270W02	MPG06G
Q504	48T84366F01	2SB1243	D361	48T85270W02	MPG06G
Q505	48T62967F05	CP., DTC143XK	D362	48T85270W02	MPG06G
Q506	48T69176F01	2SC3421	D362	48T85270W02	MPG06G
Q507	48T73888F12	CP., FMC2	D362	48T85270W02	MPG06G
Q508	48T62966F01	CP., DTA143	D363	48T85270W02	MPG06G
Q508	48T62966F01	CP., DTA143	D363	48T85270W02	MPG06G
Q509	48T84366F04	2SB1243	D363	48T85270W02	MPG06G
Q510	48T62967F03	CP., DTC124K	D363	48T85270W02	MPG06G
Q511	48T62967F23	CP., DTC143TK	D364	48T85270W02	MPG06G
Q512	48T62967F23	CP., DTC143TK	D364	48T85270W02	MPG06G
Q513	48T62967F23	CP., DTC143TK	D365	48T85270W02	MPG06G
Q811	48T62967F03	CP., DTC124K	D365	48T85270W02	MPG06G
Q811	48T62967F03	CP., DTC124K	D365	48T85270W02	MPG06G
Q811	48T62967F03	CP., DTC124K	D366	48T85270W02	MPG06G
Q831	48T62967F03	CP., DTC124K	D366	48T85270W02	MPG06G
Q832	48T73888F12	CP., FMC2	D366	48T85270W02	MPG06G
Q833	48T73888F12	CP., FMC2	D367	48T85270W02	MPG06G
Q834	48T62967F03	CP., DTC124K	D367	48T85270W02	MPG06G
Q835	48T62967F03	CP., DTC124K	D367	48T85270W02	MPG06G
Q835	48T62967F03	CP., DTC124K	D368	48T85270W02	MPG06G
Q851	48T52437F01	CP., 2SB709A	D368	48T85270W02	MPG06G
Q852	48T52438F01	CP., 2SD601A	D368	48T85270W02	MPG06G
Q853	48T62966F03	CP., DTA124	D501	48T68828F11	1SS133
Q871	48T15289W04	2SD2008	D502	48T85270W02	MPG06G
Q872	48T62966F03	CP., DTA124	D503	48T68580F03	DS1A4
Q873	48T62967F09	CP., DTC114TK	D505	48T25651W02	CP. MA152WK
Q881	48T84366F04	2SB1243	D505	48T25651W02	CP. MA152WK
Q882	48T62967F02	CP., DTC114K	D821	48T68828F11	1SS133
Q885	48T63420F01	CP., 2SA1037K	D831	48T63462F01	CP., DAN202K
Q886	48T62967F03	CP., DTC124K	D832	48T63462F01	CP., DAN202K
Q887	48T25169W01	2SD2096	D851	48T63463F01	CP., DAP202K
Q888	48T52438F01	CP., 2SD601A	D852	48T63462F01	CP., DAN202K
Q888	48T52438F01	CP., 2SD601A	D853	48T68828F11	1SS133

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
D872	48T68828F11	1SS133	C004	08T15399W01	CP., 0.022μF
D881	48T85270W02	MPG06G	C005	08T15399W03	CP., 0.047μF
D882	48T64134F01	CP., DA204K	C006	08T15399W01	CP., 0.022μF
ZD091	48T25766W24	Zener, HZS9C1L	C007	08T15807W05	CP., 0.1μF
ZD092	48T25766W01	Zener, HZS6A1L	C008	08T15399W01	CP., 0.022μF
ZD502	48T25766W23	Zener, HZS9B3L	C009	08T15399W01	CP., 0.022μF
ZD802	48T25766W13	Zener, HZS7B1L	C010	08S85128F35	CP., 100pF
ZD833	48T25766W22	Zener, HZS9B2L	C021	08S85128F59	CP., 0.01μF
ZD871	48T25766W04	Zener, HZS6B1L	E021	23S75373W06	ELY., 100μF / 16V
ZD881	48T25766W26	Zener, HZS9C3L	C022	08T55390W29	TF., 0.1μF
ZD882	48T25766W25	Zener, HZS9C2L	C022	08T35122W13	PF., 0.1μF
ZD882	48T25766W25	Zener, HZS9C2L	C022	08T35122W13	PF., 0.1μF
DSP001	48T81048F02	Surge Protector, DSP-201M	E022	23S75372W02	ELY., 100μF / 10V
Coils			C023	08S65128F59	CP., 0.01μF
L071	24T25798W13	Inductor, 1mH	E023	23S75372W10	ELY., 0.1μF / 50V
L501	24T75055W06	Choke	C024	08T15399W02	CP., 0.033μF
L502	24T65110W16	CP., 1μH	E024	23S75372W04	ELY., 10μF / 16V
L503	24T65110W16	CP., 1μH	C025	08T55390W31	TF., 0.15μF
Crystals			C025	08T35122W15	PF., 0.15μF
X041	91T85169W43	7.2MHz	C025	08T35122W15	PF., 0.15μF
X061	91T45118W18	4.332MHz	E025	23S75372W14	ELY., 0.68μF / 50V
X501	91T85169W49	8.3886MHz	C026	23S82372F19	ELY., (B.P) 2.2μF / 50V
X502	91T85169W27	4.9152MHz	C027	08T15399W02	CP., 0.033μF
Filter / Buzzer			C028	08S65128F69	CP., 0.01μF
BPF001	91T75257W01	Filter, LPF11830K	C029	08S65128F69	CP., 0.01μF
BZ801	50T25148W02	CB13PA-225	C030	08T15399W01	CP., 0.022μF
BZ801	50T25148W02	CB13PA-225	C041	08S82122F31	CP., 56pF
BZ801	50T25148W02	CB13PA-225	E041	23S75372W05	ELY., 22μF / 16V
Switches			C042	08T15399W01	CP., 0.022μF
S501	40T45282W01	Slide, SLD-42-508 (A1-NET + NORM(EQ/DIV))	C043	08S82122F19	CP., 18pF
S821	40T75104W01	Tact.SKHLB (RESET)	C044	08S82122F19	CP., 18pF
Capacitors			C051	08S35374W01	CP., 0.1μF
C001	08S65128F69	CP., 0.01μF	C051	08S35374W01	CP., 0.1μF
E002	23S75372W05	ELY., 22μF / 16V	E051	23S75372W06	ELY., 33μF / 16V
C003	08S65128F35	CP., 100pF	E051	23S75372W06	ELY., 33μF / 16V
E003	23S75372W14	ELY., 0.58μF / 50V	C052	08S82122F33	CP., 68pF
			C052	08S82122F33	CP., 68pF
			E052	23S75372W10	ELY., 0.1μF / 50V
			C052	23S75372W10	ELY., 0.1μF / 50V
			E052	23S75372W10	ELY., 0.1μF / 50V
			E053	23S75372W15	ELY., 1μF / 50V
			E053	23S75372W15	ELY., 1μF / 50V

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
△ E053	23S75372W15	ELY., 1μF / 50V	● C221	08T35122W07	PF., 0.033μF
○ E054	23S75372W04	ELY., 10μF / 16V	△ C221	08T35122W07	PF., 0.033μF
● E054	23S75372W04	ELY., 10μF / 16V	△ E221	23S75372W15	ELY., 1μF / 50V
△ E054	23S75372W04	ELY., 10μF / 16V	○ C222	08T55390W23	TF., 0.033μF
○ C061	08S82122F23	CP., 27pF	● C222	08T35122W07	PF., 0.033μF
E061	23S75372W04	ELY., 10μF / 16V	△ C222	08T35122W07	PF., 0.033μF
C062	08S82122F23	CP., 27pF	E222	23S75372W15	ELY., 1μF / 50V
E062	23S75372W16	ELY., 2.2μF / 50V	○ C223	08T55390W14	PF., 5600pF
C063	08S82122F49	CP., 330pF	● C223	08T55390W14	PF., 5600pF
E063	23S75372W04	ELY., 10μF / 16V	△ C223	08T55390W14	PF., 5600pF
C064	08S65128F53	CP., 560pF	E223	23S75372W09	ELY., 4.7μF / 15V
C071	08S65128F69	CP., 0.01μF	○ C224	08T55390W14	PF., 5600pF
E071	23S75372W10	ELY., 0.1μF / 50V	● C224	08T55390W14	PF., 5600pF
C072	08S65128F56	CP., 820pF	△ C224	08T55390W14	PF., 5600pF
C073	08T15399W01	CP., 0.022μF	E224	23S75372W09	ELY., 4.7μF / 15V
C074	08S65128F35	CP., 100pF	○ C225	08T15399W02	CP., 0.033μF
C075	08S65128F69	CP., 0.01μF	△ C226	08T15399W02	CP., 0.033μF
C076	08S65128F61	CP., 2200pF	○ C227	08S65128F66	CP., 5600pF
C077	08S65128F69	CP., 0.01μF	E227	23S75372W15	ELY., 1μF / 50V
C078	08S65128F81	CP., 0.039μF	△ C228	08S65128F66	CP., 5600pF
C091	08T15399W01	CP., 0.022μF	E228	23S75372W02	ELY., 100μF / 10V
E091	23S75372W03	ELY., 220μF / 10V	C229	08S65128F69	CP., 0.01μF
C092	08T15399W01	CP., 0.022μF	E229	23S75372W15	ELY., 1μF / 50V
E092	23S75372W04	ELY., 10μF / 16V	E230	23S75372W15	ELY., 1μF / 50V
○ C201	08T55390W27	TF., 0.068μF	E231	23S75372W15	ELY., 1μF / 50V
● C201	08T35122W11	PF., 0.068μF	E232	23S75372W07	ELY., 47μF / 15V
△ C201	08T35122W11	PF., 0.068μF	○ E243	23S75372W15	ELY., 1μF / 50V
E201	23S75372W15	ELY., 1μF / 50V	● E243	23S75372W15	ELY., 1μF / 50V
○ C202	08T55390W27	TF., 0.068μF	○ E244	23S75372W15	ELY., 1μF / 50V
● C202	08T35122W11	PF., 0.068μF	● E244	23S75372W15	ELY., 1μF / 50V
△ C202	08T35122W11	PF., 0.068μF	○ E245	23S75372W09	ELY., 4.7μF / 15V
E202	23S75372W15	ELY., 1μF / 50V	● E245	23S75372W09	ELY., 4.7μF / 15V
E203	23S75372W04	ELY., 10μF / 16V	○ E246	23S75372W09	ELY., 4.7μF / 15V
E204	23S75372W09	ELY., 4.7μF / 35V	● E246	23S75372W09	ELY., 4.7μF / 15V
○ E205	23S75372W10	ELY., 0.1μF / 50V	○ E247	23S75372W15	ELY., 1μF / 50V
● E205	23S75372W10	ELY., 0.1μF / 50V	● E247	23S75372W15	ELY., 1μF / 50V
△ E205	23S75372W10	ELY., 0.1μF / 50V	○ E261	23S75372W05	ELY., 22μF / 16V
E205	23S75372W14	ELY., 0.68μF / 50V	● E261	23S75372W05	ELY., 22μF / 16V
○ E206	23S75372W10	ELY., 0.1μF / 50V	○ C262	08S65128F56	CP., 820pF
● E206	23S75372W10	ELY., 0.1μF / 50V	● C262	08S65128F56	CP., 820pF
△ E206	23S75372W10	ELY., 0.1μF / 50V	○ E262	23S75372W05	ELY., 22μF / 16V
E206	23S75372W14	ELY., 0.68μF / 50V	● E262	23S75372W05	ELY., 22μF / 16V
E207	23S75372W04	ELY., 10μF / 16V	○ E263	23S75372W08	ELY., 100μF / 15V
● E207	23S75372W04	ELY., 10μF / 16V	● E263	23S75372W08	ELY., 100μF / 15V
△ E207	23S75372W04	ELY., 10μF / 16V	○ E264	23S75372W08	ELY., 100μF / 15V
E207	23S75372W05	ELY., 22μF / 16V	● E264	23S75372W08	ELY., 100μF / 15V
○ C221	08T55390W23	TF., 0.033μF	○ C265	08S65128F56	CP., 820pF

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ C265	08S65128F56	CP., 820pF	△ E321	23S75372W04	ELY., 10μF / 16V
● E265	23S75372W07	ELY., 47μF / 16V	□ E321	23S75372W04	ELY., 10μF / 16V
● E265	23S75372W07	ELY., 47μF / 16V	○ E322	23S75372W04	ELY., 10μF / 16V
○ E266	23S75372W04	ELY., 10μF / 16V	○ E323	23S75372W04	ELY., 10μF / 16V
● E266	23S75372W04	ELY., 10μF / 16V	● E323	23S75372W04	ELY., 10μF / 16V
○ E271	23S75372W05	ELY., 22μF / 16V	○ E324	23S75372W04	ELY., 10μF / 16V
● E271	23S75372W05	ELY., 22μF / 16V	● E324	23S75372W04	ELY., 10μF / 16V
○ C272	08S65128F56	CP., 820pF	○ E325	23S75372W04	ELY., 10μF / 16V
● C272	08S65128F56	CP., 820pF	● E325	23S75372W04	ELY., 10μF / 16V
○ E272	23S75372W05	ELY., 22μF / 16V	△ E325	23S75372W04	ELY., 10μF / 16V
● E272	23S75372W05	ELY., 22μF / 16V	○ E326	23S75372W04	ELY., 10μF / 16V
○ E273	23S75372W08	ELY., 100μF / 16V	● E326	23S75372W04	ELY., 10μF / 16V
● E273	23S75372W08	ELY., 100μF / 16V	△ E326	23S75372W04	ELY., 10μF / 16V
○ E274	23S75372W08	ELY., 100μF / 16V	E327	23S75372W04	ELY., 10μF / 16V
● E274	23S75372W08	ELY., 100μF / 16V	E328	23S75372W04	ELY., 10μF / 16V
○ C275	08S65128F56	CP., 820pF	○ C361	08T15807W05	CP., 0.1μF
● C275	08S65128F56	CP., 820pF	△ C361	08T15807W05	CP., 0.1μF
○ E275	23S75372W05	ELY., 22μF / 16V	□ C361	08T15807W05	CP., 0.1μF
● E275	23S75372W05	ELY., 22μF / 16V	○ E365	23T75478W35	ELY., 0.33μF / 50V
○ E276	23S75372W04	ELY., 10μF / 16V	△ E365	23T75478W35	ELY., 0.33μF / 50V
● E276	23S75372W04	ELY., 10μF / 16V	□ E365	23T75478W35	ELY., 0.33μF / 50V
○ E277	23S75372W05	ELY., 22μF / 16V	△ E366	23T75478W35	ELY., 0.33μF / 50V
● E277	23S75372W05	ELY., 22μF / 16V	□ E366	23T75478W35	ELY., 0.33μF / 50V
○ C278	08S65128F56	CP., 820pF	△ E366	23T75478W35	ELY., 0.33μF / 50V
● C278	08S65128F56	CP., 820pF	□ E367	23T75478W35	ELY., 0.33μF / 50V
○ E278	23S75372W05	ELY., 22μF / 16V	△ E367	23T75478W35	ELY., 0.33μF / 50V
● E278	23S75372W05	ELY., 22μF / 16V	□ E367	23T75478W35	ELY., 0.33μF / 50V
○ E279	23S75372W08	ELY., 100μF / 16V	△ E368	23T75478W35	ELY., 0.33μF / 50V
● E279	23S75372W08	ELY., 100μF / 16V	□ E368	23T75478W35	ELY., 0.33μF / 50V
○ E280	23S75372W08	ELY., 100μF / 16V	△ E368	23T75478W35	ELY., 0.33μF / 50V
● E280	23S75372W08	ELY., 100μF / 16V	□ E369	23T75478W37	ELY., 1μF / 50V
○ C281	08S65128F56	CP., 820pF	△ E369	23T75478W37	ELY., 1μF / 50V
● C281	08S65128F56	CP., 820pF	□ E369	23T75478W37	ELY., 1μF / 50V
○ E281	23S75372W05	ELY., 22μF / 16V	△ E370	23T75478W18	ELY., 47μF / 16V
● E281	23S75372W05	ELY., 22μF / 16V	□ E370	23T75478W18	ELY., 47μF / 16V
○ E282	23S75372W04	ELY., 10μF / 16V	△ E370	23T75478W18	ELY., 47μF / 16V
● E282	23S75372W04	ELY., 10μF / 16V	□ E371	23T75478W37	ELY., 1μF / 50V
○ E283	23S75372W05	ELY., 22μF / 16V	△ E371	23T75478W37	ELY., 1μF / 50V
● E283	23S75372W05	ELY., 22μF / 16V	□ E371	23T75478W37	ELY., 1μF / 50V
○ E284	23S75372W05	ELY., 22μF / 16V	△ E371	23T75478W37	ELY., 1μF / 50V
● E284	23S75372W05	ELY., 22μF / 16V	□ E371	23T75478W37	ELY., 1μF / 50V
○ E301	23S75372W04	ELY., 10μF / 16V	△ E301	08S65128F69	CP., 0.01μF
● E301	23S75372W04	ELY., 10μF / 16V	E501	23S75372W03	ELY., 220μF / 10V
○ E302	23S75372W04	ELY., 10μF / 16V	C502	08S82122F21	CP., 22pF
● E302	23S75372W04	ELY., 10μF / 16V	E502	23S75372W02	ELY., 100μF / 10V
○ E303	23S75372W04	ELY., 10μF / 16V	C503	08S82122F21	CP., 22pF
● E303	23S75372W04	ELY., 10μF / 16V	△ E503	23S75372W04	ELY., 10μF / 16V
○ E321	23S75372W04	ELY., 10μF / 16V	● E503	23S75372W15	ELY., 1μF / 50V
● E321	23S75372W04	ELY., 10μF / 16V	△ E503	23S75372W09	ELY., 4.7μF / 35V

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
□ E503	23S75372W16	ELY., 2.2μF / 50V	□ C881	08S65128F69	CP., 0.01μF
□ C504	08T15399W01	CP., 0.022μF	● C881	08S65128F69	CP., 0.01μF
□ E504	23T00149L27	ELY., 330μF / 16V	△ C881	08S65128F69	CP., 0.01μF
□ E505	23T00149L26	ELY., 220μF / 16V	△ E881	23S75372W04	ELY., 10μF / 16V
● E506	23S75373W06	ELY., 100μF / 16V			
□ C507	08S82122F23	CP., 27pF			
● E507	23T75346W02	ELY., 4700μF / 16V			
○ E507	23T75346W01	ELY., 2200μF / 16V			
△ E507	23T75346W02	ELY., 4700μF / 16V			
□ E507	23T75346W02	ELY., 4700μF / 16V			
□ C508	08S82122F22	CP., 24pF			
□ E508	23S75372W15	ELY., 1μF / 50V			
□ C509	08T15399W01	CP., 0.022μF			
□ E509	23S75372W15	ELY., 1μF / 50V			
□ E510	23S75372W04	ELY., 10μF / 16V			
□ C511	08S65128F35	CP., 100pF			
□ E511	23S75372W15	ELY., 1μF / 50V			
□ C513	08S65128F35	CP., 100pF			
□ C514	08S65128F35	CP., 100pF			
□ C515	08S65128F35	CP., 100pF			
□ C517	08S65128F35	CP., 100pF			
□ C521	08S65128F35	CP., 100pF			
□ C522	08S65128F35	CP., 100pF			
□ C523	08S65128F69	CP., 0.01μF			
● C523	08S65128F69	CP., 0.01μF			
□ C526	08T15399W01	CP., 0.022μF			
□ C527	08T15399W01	CP., 0.022μF			
□ C529	08S65128F35	CP., 100pF			
□ C529	08S65128F35	CP., 100pF			
□ C529	08S65128F35	CP., 100pF			
□ C530	08S65128F69	CP., 0.01μF			
□ C532	08S65128F35	CP., 100pF			
□ C801	08S65128F35	CP., 100pF			
□ E821	23S75372W04	ELY., 10μF / 16V			
□ C831	08S53332F23	CP., 100pF			
□ C832	08T15807W05	CP., 0.1μF			
□ E832	23S75372W04	ELY., 10μF / 16V			
□ E832	23S75372W04	ELY., 10μF / 16V			
□ E832	23S75372W04	ELY., 10μF / 16V			
□ E841	23S75372W02	ELY., 100μF / 10V			
□ E843	23S75372W09	ELY., 4.7μF / 35V			
□ C851	08S82122F37	CP., 100pF			
□ E851	23S75372W04	ELY., 10μF / 16V			
□ C852	08S82122F23	CP., 27pF			
□ C871	08S65128F69	CP., 0.01μF			
□ E871	23S75372W15	ELY., 1μF / 50V			
□ E872	23S75372W10	ELY., 0.1μF / 50V			

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
□ R061	06S64995F61	2.2K ohm	● R243	06S64996F02	100K ohm
□ R062	06S64995F69	4.7K ohm	□ R244	06S64996F02	100K ohm
□ R063	06S64995F77	10K ohm	● R244	06S64996F02	100K ohm
□ R064	06S64995F53	1K ohm	□ R247	06S64995F65	3.3K ohm
□ R065	06S64995F53	1K ohm	● R247	06S64995F65	3.3K ohm
□ R071	06S64996F02	100K ohm	□ R248	06S64995F65	3.3K ohm
□ R072	06S64995F77	10K ohm	● R248	06S64995F65	3.3K ohm
□ R073	06S64995F81	15K ohm	□ R261	06S64995F90	36K ohm
□ R074	06S64996F10	220K ohm	● R261	06S64995F90	36K ohm
□ R075	06S64996F14	330K ohm	□ R262	06S64995F90	36K ohm
□ R076	06S64995F29	100 ohm	● R262	06S64995F90	36K ohm
□ R077	06S64995F77	10K ohm	□ R263	06S64995F90	36K ohm
□ R078	06S64996F04	120K ohm	● R263	06S64995F90	36K ohm
□ R079	06S64995F13	22 ohm	□ R264	06S64995F90	36K ohm
□ R080	06S64996F02	100K ohm	● R264	06S64995F90	36K ohm
□ R081	06S64996F02	100K ohm	□ R271	06S64995F90	36K ohm
□ R091	06S64995F65	3.3K ohm	● R271	06S64995F90	36K ohm
□ R092	06S64995F53	1K ohm	□ R272	06S64995F90	36K ohm
□ R093	06S70072F61	2.2K ohm 1/4W	● R272	06S64995F90	36K ohm
□ R094	06S64995F77	10K ohm	□ R273	06S64995F90	36K ohm
□ R095	06S70072F41	330 ohm 1/4W	● R273	06S64995F90	36K ohm
□ R096	06S53330F73	6.8K ohm 1/8W	□ R274	06S64995F90	36K ohm
□ R201	06S64996F30	2.2M ohm	● R274	06S64995F90	36K ohm
□ R202	06S64996F30	2.2M ohm	□ R276	06S64995F90	36K ohm
□ R203	06S64995F62	2.4K ohm	● R276	06S64995F90	36K ohm
□ R204	06S64995F62	2.4K ohm	□ R277	06S64995F90	36K ohm
□ R205	06S64995F59	1.8K ohm	● R277	06S64995F90	36K ohm
□ R206	06S64995F59	1.8K ohm	□ R278	06S64995F90	36K ohm
□ R207	06S64995F84	20K ohm	● R278	06S64995F90	36K ohm
● R207	06S64995F84	20K ohm	□ R279	06S64995F90	36K ohm
□ R207	06S64995F84	20K ohm	● R279	06S64995F90	36K ohm
□ R207	06S64995F92	43K ohm	□ R291	06S64995F61	2.2K ohm
□ R208	06S64995F79	12K ohm	● R292	06S64995F61	2.2K ohm
● R208	06S64995F79	12K ohm	□ R301	06T15443W85	22K ohm
□ R208	06S64995F79	12K ohm	● R302	06T15443W85	22K ohm
□ R209	06S64995F37	220 ohm	□ R303	06T15443W85	22K ohm
● R209	06S64995F37	220 ohm	● R304	06T15443W85	22K ohm
□ R209	06S64995F37	220 ohm	□ R305	06T15443W79	12K ohm
□ R210	06S64995F75	8.2K ohm	● R306	06T15443W79	12K ohm
● R210	06S64995F75	8.2K ohm	□ R307	06T15443W79	12K ohm
□ R210	06S64995F75	8.2K ohm	● R308	06T15443W79	12K ohm
□ R211	06S64995F69	4.7K ohm	□ R321	06S64995F77	10K ohm
□ R221	06S64995F77	10K ohm	● R322	06S64995F77	10K ohm
□ R222	06S64995F77	10K ohm	□ R323	06S64995F77	10K ohm
□ R223	06S64995F77	10K ohm	● R324	06S64995F77	10K ohm
□ R224	06S64995F77	10K ohm	□ R325	06S64995F77	10K ohm
□ R243	06S64996F02	100K ohm	● R326	06S64995F77	10K ohm

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ R327	06S64995F77	10K ohm	● R347	06S64995F65	3.3K ohm
○ R328	06S64995F77	10K ohm	○ R348	06S64995F65	3.3K ohm
○ R329	06S64995F37	220 ohm	● R348	06S64995F65	3.3K ohm
● R329	06S64995F37	220 ohm	○ R349	06S64995F29	100 ohm
○ R330	06S64995F37	220 ohm	R350	06S64995F29	100 ohm
● R330	06S64995F37	220 ohm	○ R351	06S64995F85	22K ohm
○ R331	06S64995F65	3.3K ohm	● R351	06S64995F89	33K ohm
● R331	06S64995F71	5.6K ohm	△ R351	06S64995F85	22K ohm
○ R332	06S64995F65	3.3K ohm	△ R351	06S64995F85	22K ohm
● R332	06S64995F71	5.6K ohm	○ R352	06S64995F85	22K ohm
○ R333	06S64995F29	100 ohm	● R352	06S64995F89	33K ohm
● R333	06S64995F29	100 ohm	△ R352	06S64995F85	22K ohm
○ R334	06S64995F29	100 ohm	□ R352	06S64995F85	22K ohm
● R334	06S64995F29	100 ohm	△ R353	06S64995F53	1K ohm
○ R335	06S64995F85	22K ohm	△ R354	06S64995F53	1K ohm
● R335	06S64995F89	33K ohm	△ R355	06S64995F53	1K ohm
○ R336	06S64995F85	22K ohm	□ R355	06S64995F61	2.2K ohm
● R336	06S64995F89	33K ohm	△ R356	06S64995F53	1K ohm
○ R337	06S64995F37	220 ohm	□ R356	06S64995F61	2.2K ohm
● R337	06S64995F37	220 ohm	○ R373	06S64995F77	10K ohm
△ R337	06S64995F37	220 ohm	△ R373	06S64995F77	10K ohm
○ R338	06S64995F37	220 ohm	□ R373	06S64995F77	10K ohm
● R338	06S64995F37	220 ohm	R501	06S64995F85	22K ohm
△ R338	06S64995F37	220 ohm	R502	06S64995F77	10K ohm
○ R339	06S64995F65	3.3K ohm	R503	06S64995F53	1K ohm
● R339	06S64995F71	5.6K ohm	R504	06S64995F53	1K ohm
○ R340	06S64995F65	3.3K ohm	R505	06S64995F53	1K ohm
● R340	06S64995F71	5.6K ohm	R506	06S64995F53	1K ohm
○ R341	06S64995F29	100 ohm	R507	06S64995F53	1K ohm
● R341	06S64995F29	100 ohm	R508	06S64995F53	1K ohm
△ R341	06S64995F29	100 ohm	R509	06S64995F53	1K ohm
○ R342	06S64995F29	100 ohm	R510	06S64995F53	1K ohm
● R342	06S64995F29	100 ohm	R511	06S64995F77	10K ohm
△ R342	06S64995F29	100 ohm	R512	06S64995F61	2.2K ohm
○ R343	06S64995F85	22K ohm	R513	06S64995F53	1K ohm
● R343	06S64995F89	33K ohm	R514	06S64995F85	22K ohm
△ R343	06S64995F85	22K ohm	R515	06S64995F61	2.2K ohm
○ R344	06S64995F85	22K ohm	R516	06S64995F61	2.2K ohm
● R344	06S64995F89	33K ohm	R517	06S64995F85	22K ohm
△ R344	06S64995F85	22K ohm	R518	06S64995F85	22K ohm
○ R345	06S64995F37	220 ohm	R519	06S64995F53	1K ohm
● R345	06S64995F37	220 ohm	R520	06S64995F53	1K ohm
△ R345	06S64995F37	220 ohm	R521	06S64995F93	47K ohm
○ R346	06S64995F37	220 ohm	R523	06S64995F78	11K ohm
● R346	06S64995F37	220 ohm	● R523	06S64995F77	10K ohm
○ R346	06S64995F37	220 ohm	△ R523	06S64995F85	22K ohm
△ R346	06S64995F37	220 ohm	□ R523	06S64995F88	30K ohm
○ R347	06S64995F65	3.3K ohm			

NOTE: ○ For TDA-7556R Model Only, ● For TDA-7559R Model Only, △ For TDA-7552R Model Only,
□ For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ R524	06S64995F87	27K ohm	R577	06S64995F53	1K ohm
△ R524	06S64995F81	15K ohm	R578	06S64995F53	1K ohm
□ R524	06S64995F89	4.7K ohm	R579	06S64995F53	1K ohm
R525	06S64995F85	22K ohm	R580	06S64995F53	1K ohm
R526	06S64995F85	22K ohm	R581	06S64995F94	51K ohm
R528	06S64995F93	47K ohm	R582	06S64995F94	51K ohm
R530	06S64995F53	1K ohm	R583	06S64995F53	1K ohm
R532	06S64995F93	47K ohm	R584	06S64995F53	1K ohm
R533	06S64995F93	47K ohm	R585	06S64995F53	1K ohm
R534	06S64995F93	47K ohm	R587	06S64996F02	100K ohm
R535	06S64996F02	100K ohm	R588	06S64995F53	1K ohm
R538	06S64996F10	220K ohm	R589	06S64995F53	1K ohm
R539	06S64995F53	1K ohm	R590	06S64995F53	1K ohm
R540	06S64995F93	47K ohm	R591	06S64995F53	1K ohm
R541	06S64995F53	1K ohm	R592	06S64995F53	1K ohm
R543	06S64995F93	47K ohm	R593	06S64995F53	1K ohm
R544	06S64995F93	47K ohm	R594	06S64995F53	1K ohm
R545	06S64995F93	47K ohm	R595	06S64995F77	10K ohm
R546	06S64995F53	1K ohm	○ R596	06S64995F85	22K ohm
R547	06S64995F53	1K ohm	● R596	06S64995F85	22K ohm
R548	06S64995F53	1K ohm	○ R597	06S64995F85	22K ohm
R550	06S64995F79	12K ohm	● R597	06S64995F85	22K ohm
○ R551	06S64995F53	1K ohm	○ R598	06S64995F67	3.9K ohm
● R551	06S64995F53	1K ohm	● R598	06S64995F67	3.9K ohm
○ R552	06S64995F93	47K ohm	○ R599	06S64995F67	3.9K ohm
△ R552	06S64995F93	47K ohm	○ R599	06S64995F67	3.9K ohm
□ R552	06S64995F77	10K ohm	□ R600	06S64995F61	2.2K ohm
R556	06S70072F59	10K ohm 1/4W	R802	06S64995F89	33K ohm
R557	06S70072F59	1.8K ohm 1/4W	R803	06S64995F89	33K ohm
R558	06S70072F59	1.8K ohm 1/4W	R804	06S64995F93	47K ohm
R559	06S70072F59	1.8K ohm 1/4W	R805	06S64995F93	47K ohm
R560	06S70072F59	1.8K ohm 1/4W	R806	06S64995F93	47K ohm
R561	06S64996F02	100K ohm	R807	06S64995F93	47K ohm
R562	06S70072F53	1K ohm 1/4W	R808	06S64995F93	47K ohm
R564	06S70072F39	270 ohm 1/4W	○ R811	06S64995F77	10K ohm
R565	06S70072F39	270 ohm 1/4W	● R811	06S64995F77	10K ohm
R566	06S64995F93	47K ohm	△ R811	06S64995F77	10K ohm
R567	06S64995F77	10K ohm	○ R812	06S64995F53	1K ohm
● R567	06S64995F77	10K ohm	● R812	06S64995F53	1K ohm
R568	06S53330F77	10K ohm 1/8W	△ R812	06S64995F53	1K ohm
● R569	06S70072F61	2.2K ohm 1/4W	○ R813	06S64995F53	1K ohm
R570	06S64996F02	100K ohm	● R813	06S64995F53	1K ohm
R573	06S64995F37	220 ohm	△ R813	06S64995F53	1K ohm
R574	06S64995F37	220 ohm	R821	06S64995F69	4.7K ohm
R575	06S64995F53	1K ohm	R822	06S64995F69	4.7K ohm
R576	06S64995F53	1K ohm	R823	06S64995F61	2.2K ohm
			R831	06S64995F77	10K ohm

NOTE: ○ For TDA-7556R Model Only, ● For TDA-7559R Model Only, △ For TDA-7552R Model Only,
□ For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description
R834	06S70072F53	1K ohm 1/4W
R835	06S70072F77	10K ohm 1/4W
R837	06S64995F77	10K ohm
R837	06S64995F77	10K ohm
R837	06S64995F77	10K ohm
R838	06S64995F81	15K ohm
R838	06S64995F81	15K ohm
R838	06S64995F81	15K ohm
R839	06S64995F37	220 ohm
R839	06S64995F37	220 ohm
R839	06S64995F37	220 ohm
R851	06S64995F73	6.8K ohm
R852	06S64995F77	10K ohm
R853	06S64995F77	10K ohm
R854	06S64995F69	4.7K ohm
R855	06S64995F73	6.8K ohm
R856	06S64995F77	10K ohm
R857	06S64995F77	10K ohm
R858	06S70072F19	39 ohm 1/4W
R859	06S70072F19	39 ohm 1/4W
R860	06S70072F19	39 ohm 1/4W
R861	06S70072F19	39 ohm 1/4W
R862	06S64995F51	2.2K ohm
R863	06S64995F57	1.5K ohm
R864	06S64995F57	1.5K ohm
R865	06S64995F61	2.2K ohm
R866	06S64995F55	1.2K ohm
R867	06S70072F05	10 ohm 1/4W
R871	06S70072F67	3.9K ohm 1/4W
R872	06S53330F69	4.7K ohm 1/8W
R873	06S53330F69	4.7K ohm 1/8W
R881	06S53330F77	10K ohm 1/8W
R883	06S70072F59	1.8K ohm 1/4W
R884	06S64995F77	10K ohm
R888	06S70072F89	9.1 ohm 1/4W
R889	06S70072F89	9.1 ohm 1/4W
R890	06S70072F89	9.1 ohm 1/4W
R891	06S64995F77	10K ohm
R892	06S64995F77	10K ohm
R893	06S70072F61	2.2K ohm 1/4W
R894	06S64995F77	10K ohm
R895	06S70072F45	470 ohm 1/4W
R896	06S64995F55	1.2K ohm
R896	06S64995F55	1.2K ohm
R896	06S64995F55	1.2K ohm
R897	06S70072F89	9.1 ohm 1/4W
R899	06S70072F59	1.8K ohm 1/4W

Symbol No.	Part No.	Description
VR201	18T15356W13	Variable, 10K ohm
VR202	18T15356W13	Variable, 10K ohm
Front P.C.Board		
IC's		
IC401	51T85152W01	L75883W
IC402	51T55639W01	R6-31
Transistors		
Q401	48T73888F12	C ³ , FMC2
Q401	48T73888F12	C ³ , FMC2
Q401	48T73888F12	C ³ , FMC2
Q402	48T63788F04	C ³ , 2SD1328
Q402	48T63788F04	C ³ , 2SD1328
Q402	48T63788F04	C ³ , 2SD1328
Q403	48T63788F04	C ³ , 2SD1328
Q403	48T63788F04	C ³ , 2SD1328
Q403	48T63788F04	C ³ , 2SD1328
Q403	48T63788F04	C ³ , 2SD1328
Q404	48T63788F04	C ³ , 2SD1328
Q404	48T63788F04	C ³ , 2SD1328
Q404	48T63788F04	C ³ , 2SD1328
Q404	48T63788F04	C ³ , 2SD1328
Q405	48T63788F04	C ³ , 2SD1328
Q405	48T63788F04	C ³ , 2SD1328
Q405	48T63788F04	C ³ , 2SD1328
Q405	48T63788F04	C ³ , 2SD1328
Q406	48T63788F04	C ³ , 2SD1328
Q406	48T63788F04	C ³ , 2SD1328
Q406	48T63788F04	C ³ , 2SD1328
Q406	48T63788F04	C ³ , 2SD1328
Q407	48T63788F04	C ³ , 2SD1328
Q407	48T63788F04	C ³ , 2SD1328
Q407	48T63788F04	C ³ , 2SD1328
Q408	48T62967F03	C ³ , DTC124K
Q409	48T62967F03	C ³ , DTC124K
Diodes		
D401	48T64134F01	C ³ , DA204K
D402	48T64134F01	C ³ , DA204K
D403	48T64134F01	C ³ , DA204K
D404	48T64134F01	C ³ , DA204K
D405	48T64134F01	C ³ , DA204K
D406	48T81063F01	C ³ , MA159

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only.
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
D407	48T81063F01	CP., MA159
D408	48T63462F01	CP., DAN202K
D409	48T64134F01	CP., DA204K
● D409	48T64134F01	CP., DA204K
△ D409	48T64134F01	CP., DA204K
ZD401	48T84735F07	Zaner, MA3058
LED's		
LD401	48T65477W05	CP., SLM-010DTT87 (ORG)
LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
● LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
△ LD402	48T65477W05	CP., SLM-010DTT87 (ORG)
○ LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
● LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
△ LD403	48T65477W05	CP., SLM-010DTT87 (ORG)
LD404	48T65477W02	CP., SLM-010LTT87 (RED)
LD405	48T65477W02	CP., SLM-010LTT87 (RED)
○ LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
● LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
△ LD406	48T65477W05	CP., SLM-010DTT87 (ORG)
LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
● LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
△ LD407	48T65477W05	CP., SLM-010DTT87 (ORG)
○ LD408	48T65477W05	CP., SLM-010DTT87 (ORG)
● LD408	48T65477W05	CP., SLM-010DTT87 (ORG)
△ LD408	48T65477W05	CP., SLM-010DTT87 (ORG)
Switches		
S401	40T55656W03	Tact. CP. SKQMAJ (INTLZ/PWR)
S403	40T75234W01	Tact. CP. SKQNAC (SOURCE/A.S.U)
S404	40T75234W01	Tact. CP. SKQNAC (EJECT)
S405	40T55656W03	Tact. CP. SKQMAJ (REW/DN)
S406	40T55656W03	Tact. CP. SKOMAJ (FF/UP)
S407	40T75234W01	Tact. CP. SKQNAC (TUNE/A.MEMO)
S408	40T55656W03	Tact. CP. SKQMAJ (BAND/PROG)
S409	40T75234W01	Tact. CP. SKQNAC (TITLE)
S410	40T75234W01	Tact. CP. SKONAC (T.INFO)
○ S411	40T55656W03	Tact. CP. SKQMAJ (RDS/1/DOLBY - B/C)
● S411	40T55656W03	Tact. CP. SKQMAJ (RDS/1/DOLBY - B/C)
△ S411	40T55656W03	Tact. CP. SKOMAJ (RDS/1/DOLBY - B/C)

Symbol No.	Part No.	Description
S411	40T55656W03	Tact. CP. SKQMAJ (RDS/1/DOLBY)
S412	40T55656W03	Tact. CP. SKQMAJ (PTY/2/P.S.DN)
S413	40T55656W03	Tact. CP. SKQMAJ (P.PTY/3/P.S. U)
S414	40T55656W03	Tact. CP. SKQMAJ (M.I.X./4/B/SKIP)
S415	40T55656W03	Tact. CP. SKQMAJ (RPT/5)
S416	40T55656W03	Tact. CP. SKQMAJ (SCAN/6)
S417	40T55656W03	Tact. CP. SKQMAJ (F/DEMO)
Lamps		
PL401	65T75522W02	CP., 9V-85mA
PL401	65T75522W02	CP., 9V-85mA
PL401	65T75522W02	CP., 9V-85mA
PL402	65T75522W02	CP., 9V-85mA
PL402	65T75522W02	CP., 9V-85mA
PL402	65T75522W02	CP., 9V-85mA
PL403	65T75231W06	9V-85mA
PL403	65T75231W06	9V-85mA
PL403	65T75231W06	9V-85mA
PL403	65T75231W01	9V-85mA
PL404	65T75231W06	9V-85mA
PL404	65T75231W06	9V-85mA
PL404	65T75231W06	9V-85mA
PL404	65T75231W01	9V-85mA
PL411	65T75233W01	CP., 8V-80mA
PL412	65T75233W01	CP., 6V-80mA
PL413	65T75233W02	CP., 6V-80mA
PL413	65T75233W02	CP., 6V-80mA
PL413	65T75233W02	CP., 6V-80mA
PL414	65T75233W02	CP., 6V-80mA
PL414	65T75233W02	CP., 6V-80mA
PL414	65T75233W02	CP., 6V-80mA
PL415	65T75231W02	9V-85mA
PL415	65T75231W02	9V-85mA
PL415	65T75231W02	9V-85mA
PL417	65T75232W01	CP., 6V-80mA
PL418	65T75233W01	CP., 6V-80mA
PL419	65T75233W01	CP., 6V-80mA
Capacitors		
C401	08S82122F59	CP., 820pF
E401	23T25191W39	CP. ELY., 8.8μF / 6.3V
C402	08T15399W03	CP., 0.047μF

NOTE: ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
(All resistors are chip 1/4W±5% unless otherwise noted.)					
Resistors					
○ R402	06S64995F77	10K ohm 1/10W	○ R456	06S70072F43	390 ohm
△ R403	06S64995F77	10K ohm 1/10W	● R457	06S70072F41	330 ohm
● R404	06S64995F69	4.7K ohm 1/10W	△ R457	06S70072F41	330 ohm
● R405	06S64995F77	10K ohm 1/10W	○ R458	06S70072F39	270 ohm
△ R406	06S64995F53	1K ohm 1/10W	● R458	06S70072F39	270 ohm
○ R407	06S64995F53	1K ohm 1/10W	△ R458	06S70072F39	270 ohm
△ R410	06S64995F53	1K ohm 1/10W	● R459	06S70072F13	22 ohm
○ R411	06S64995F53	1K ohm 1/10W	△ R460	06S70072F13	22 ohm
○ R412	06S64995F53	1K ohm 1/10W	○ R461	06S70072F13	22 ohm
△ R413	06S64995F53	1K ohm 1/10W	● R461	06S70072F13	22 ohm
○ R414	06S64995F53	1K ohm 1/10W	△ R461	06S70072F13	22 ohm
△ R415	06S64995F69	4.7K ohm 1/10W	○ R462	06S70072F15	27 ohm
△ R416	06S64995F97	68K ohm 1/10W	● R462	06S70072F15	27 ohm
○ R422	06S64995F61	2.2K ohm 1/10W	△ R462	06S70072F15	27 ohm
● R422	06S64995F61	2.2K ohm 1/10W	○ R463	06S70072F16	30 ohm
△ R422	06S64995F61	2.2K ohm 1/10W	● R463	06S70072F16	30 ohm
○ R423	06S64995F61	2.2K ohm 1/10W	△ R463	06S70072F16	30 ohm
○ R423	06S64995F61	2.2K ohm 1/10W	○ R464	06S70072F16	30 ohm
△ R423	06S64995F61	2.2K ohm 1/10W	● R464	06S70072F16	30 ohm
○ R424	06S64995F61	2.2K ohm 1/10W	△ R464	06S70072F16	30 ohm
● R424	06S64995F61	2.2K ohm 1/10W	○ R465	06S70072F16	30 ohm
△ R424	06S64995F61	2.2K ohm 1/10W	△ R466	06S70072F16	30 ohm
○ R425	06S64995F61	2.2K ohm 1/10W	● R467	06S70072F15	27 ohm
△ R425	06S64995F61	2.2K ohm 1/10W	△ R468	06S70072F15	27 ohm
○ R426	06S64995F61	2.2K ohm 1/10W	○ R469	06S70072F14	24 ohm
● R426	06S64995F61	2.2K ohm 1/10W	△ R470	06S70072F14	24 ohm
△ R426	06S64995F61	2.2K ohm 1/10W	○ R471	06S70072F13	22 ohm
○ R427	06S64995F61	2.2K ohm 1/10W	△ R472	06S70072F41	330 ohm
● R427	06S64995F61	2.2K ohm 1/10W	△ R473	06S70072F67	3.9K ohm
△ R427	06S64995F61	2.2K ohm 1/10W	○ R474	06S70072F37	220 ohm
○ R428	06S64995F93	47K ohm 1/10W	● R474	06S70072F37	220 ohm
● R428	06S64995F93	47K ohm 1/10W	△ R475	06S70072F39	270 ohm
△ R428	06S64995F93	47K ohm 1/10W	○ R475	06S70072F39	270 ohm
○ R429	06S64995F53	1K ohm 1/10W	● R475	06S70072F39	270 ohm
○ R430	06S64995F53	1K ohm 1/10W	△ R475	06S70072F39	270 ohm
○ R451	06S70072F09	15 ohm	○ R476	06S70072F16	30 ohm
● R451	06S70072F09	15 ohm	△ R476	06S70072F16	30 ohm
△ R451	06S70072F09	15 ohm	○ R477	06S70072F16	30 ohm
○ R452	06S70072F09	15 ohm	● R477	06S70072F16	30 ohm
△ R452	06S70072F09	15 ohm	△ R477	06S70072F16	30 ohm
○ R453	06S70072F09	15 ohm	● R478	06S70072F17	33 ohm
△ R454	06S70072F09	15 ohm	○ R478	06S70072F17	33 ohm
○ R455	06S70072F41	330 ohm	△ R478	06S70072F17	33 ohm
			○ R479	06S70072F39	270 ohm
			△ R481	06S64995F46	510 ohm 1/10W

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ R482	06S64995F53	1K ohm 1/10W	R3510	06S70072F60	2K ohm 1/4W
● R482	06S64995F53	1K ohm 1/10W	R3511	06S70072F60	2K ohm 1/4W
△ R482	06S64995F53	1K ohm 1/10W	R3512	06S53331F01	91K ohm 1/8W
			R3513	06S53331F01	91K ohm 1/8W
			R3514	06S70072F53	1K ohm 1/4W
			R3515	06S81094F05	M.F., 3.3 ohm 1/2W
GR Control P.C. Board (●)			GR Control P.C. Board (○△□)		
IC's			IC's		
IC3102	51T75010W01	BA3703F	IC1101	51T64606F02	TA7705F
IC3501	51T75628W01	BA6285FP	IC1102	51T75010W01	BA3703F
			IC1501	51T75628W01	BA6285FP
Transistors			Transistors		
Q3501	48T84366F05	2SB1243	Q1501	48T84366F05	2SB1243
Q3502	48T62967F06	CP., DTC114YK	Q1502	48T62967F06	CP., DTC114YK
Q3503	48T62967F06	CP., DTC114YK	Q1503	48T62967F06	CP., DTC114YK
Q3504	48T83835F03	2SD1859	Q1504	48T83835F03	2SD1859
Q3505	48T62967F06	CP., DTC114YK			
Diodes			Diodes		
D3501	48T81063F01	CP., MA159	D1101	48T81063F01	CP., MA159
D3502	48T81063F01	CP., MA159	D1501	48T81063F01	CP., MA159
ZD3501	48T83128F11	Zener, HZS7A2L	D1502	48T81063F01	CP., MA159
			ZD1501	48T83128F11	Zener, HZS7A2L
Capacitors			Capacitors		
E3107	23S75372W15	ELY., 1μF / 50V	E1101	23S75372W02	ELY., 100μF / 10V
E3108	23S75372W04	ELY., 10μF / 16V	E1102	23S75372W04	ELY., 10μF / 16V
C3111	08S65128F35	CP., 100pF	E1103	23S75372W02	ELY., 100μF / 10V
C3112	08S35374W01	CP., 0.1μF	E1104	23S75372W07	ELY., 47μF / 16V
C3113	08S82122F59	CP., 820pF	C1105	08S72783F31	CP., 470pF
C3501	08S65128F76	CP., 0.1μF	E1105	23S75372W09	ELY., 4.7μF / 35V
E3501	23S75372W08	ELY., 100μF / 16V	C1106	08S72783F31	CP., 470pF
Resistors			E1106	23S75372W09	ELY., 4.7μF / 35V
R3114	06S64995F85	22K ohm	C1107	08S72783F31	CP., 470pF
R3115	06S64995F85	22K ohm	E1107	23S75372W15	ELY., 1μF / 50V
R3116	06S64995F85	22K ohm	C1108	08S72783F31	CP., 470pF
R3117	06S64996F01	91K ohm	E1108	23S75372W04	ELY., 10μF / 16V
R3118	06S64995F95	56K ohm	C1109	08S53332F48	CP., 0.012μF
R3119	06S64995F32	130 ohm	C1110	08S53332F48	CP., 0.012μF
R3507	06S70072F41	330 ohm 1/4W	C1111	08S65128F35	CP., 100pF
R3508	06S70072F41	330 ohm 1/4W	C1112	08S35374W01	CP., 0.1μF
R3509	06S64995F77	10K ohm			

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Symbol No.	Part No.	Description
C1113	06S82122F59	CP., 820pF
C1501	06S65128F76	CP., 0.1μF
E1501	23S75372W08	ELY., 100μF / 16V
(All resistors are chip 1/10W±5% unless otherwise noted.)		
Resistors		
R1101	06S53330F32	130 ohm 1/8W
R1102	06S64996F15	360K ohm
R1103	06S64995F80	13K ohm
R1104	06S53330F80	13K ohm 1/8W
R1105	06S53330F32	130 ohm 1/8W
R1106	06S64995F80	13K ohm
R1107	06S64995F80	13K ohm
R1108	06S64996F15	360K ohm
R1109	06S53330F29	100 ohm 1/8W
R1110	06S53330F65	3.3K ohm 1/8W
R1111	06S53330F65	3.3K ohm 1/8W
R1112	06S53330F85	22K ohm 1/8W
R1113	06S53330F85	22K ohm 1/8W
R1116	06S64995F85	22K ohm
R1117	06S64996F01	91K ohm
R1118	06S64995F95	56K ohm
R1119	06S64995F32	130 ohm
R1507	06S70072F41	330 ohm 1/4W
R1508	06S70072F41	330 ohm 1/4W
R1509	06S64995F77	10K ohm
R1510	06S70072F60	2K ohm 1/4W
R1511	06S70072F60	2K ohm 1/4W
R1512	06S53331F01	91K ohm 1/8W
R1513	06S53331F01	91K ohm 1/8W
R1514	06S70072F53	1K ohm 1/4W
R1515	06S81094F09	M.F., 4.7 ohm 1/2W
GR Audio P.C. Board (●)		
IC		
IC3101	51T64606F02	TA7705F
Diode		
D3101	48T81063F01	CP., MA159

NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

Symbol No.	Part No.	Description
Capacitors		
C3101	08T35389W09	PF., 470pF
E3101	23S75372W02	ELY., 100μF / 10V
C3102	08T35389W09	PF., 470pF
E3102	23S75372W04	ELY., 10μF / 16V
C3103	08T35389W09	PF., 470pF
E3103	23S75372W02	ELY., 100μF / 10V
C3104	08T35389W09	PF., 470pF
E3104	23S75372W07	ELY., 47μF / 16V
E3105	23S75372W09	ELY., 4.7μF / 35V
E3106	23S75372W09	ELY., 4.7μF / 35V
C3109	08T35122W02	PF., 0.012μF
C3110	08T35122W02	PF., 0.012μF
(All resistors are chip 1/8W±5% unless otherwise noted.)		
Resistors		
R3101	06S53330F32	130 ohm
R3102	06S64996F12	270K ohm 1/10W
R3103	06S64995F79	12K ohm 1/10W
R3104	06S64995F80	13K ohm 1/10W
R3105	06S53330F32	130 ohm
R3106	06S64995F80	13K ohm 1/10W
R3107	06S64995F79	12K ohm 1/10W
R3108	06S64996F12	270K ohm 1/10W
R3109	06S53330F29	100 ohm
R3110	06S53330F65	3.3K ohm
R3111	06S53330F65	3.3K ohm
R3112	06S53330F85	22K ohm
R3113	06S53330F85	22K ohm
Miscellaneous		
CB501	09T75038W16	16P Connector
CH401	09T75039W16	16P Connector
ET001	09T55211W01	Antenna Receptacle
○ ET502	01T85236W01	Assy., RCA Connector (REAR OUT/FRONT OUT/SUB-W/audio Interrupt In/Remote Turn-On)
● ET502	01T85236W01	Assy., RCA Connector (REAR OUT/FRONT OUT/SUB-W/audio Interrupt In/Remote Turn-On)
△ ET502	01T85236W02	Assy., RCA Connector (REAR OUT/F-OUT/NFP/Remote Turn-On)

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
ET502	01T85236W03	Assy., RCA Connector (REAR OUT/Remote Turn-On)			
○ ET504	01T75292W04	Assy., ISO Connector (15A)			
● ET504	01T75292W03	Assy., ISO Connector (7.5A)			
△ ET504	01T75292W04	Assy., ISO Connector (15A)			
□ ET504	01T75292W04	Assy., ISO Connector (15A)			
HD1101	88T75612W02	Head			
● HD1101	88T85509W01	Head			
△ HD1101	88T75612W02	Head			
□ HD1101	88T75612W02	Head			
JK503	09T55071W11	AI-NET Connector			
LCD401	65T85084W01	LCD Display			
● LCD401	65T85254W01	LCD Display			
△ LCD401	65T85084W02	LCD Display			
□ LCD401	65T85084W03	LCD Display			
○ M1501	01V74500W18	Assy., Main Motor (13.2V-55mA)			
● M1501	01V84200W63	Assy., Main Motor (6V-90mA)			
△ M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)			
□ M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)			
M1502	01V74500W23	Assy., Sub Motor (7V-370mA)			
PT1501	51T63433F03	Sensor, Photo ON2170-R2			
PT1502	51T63433F03	Sensor, Photo ON2170-R2			
S1501	40T15222W01	Switch, Detector (PACK IN)			
S1502	40T15382W02	Switch, Detector (PAUSE)			
S1503	40T15382W02	Switch, Detector (MODE)			
S1504	40T15382W02	Switch, Detector (METAL)			
VR402	40T45670W05	Rotary Encoder Volume (AUDIO CONTROL/MODE + LOUD)			
S402					

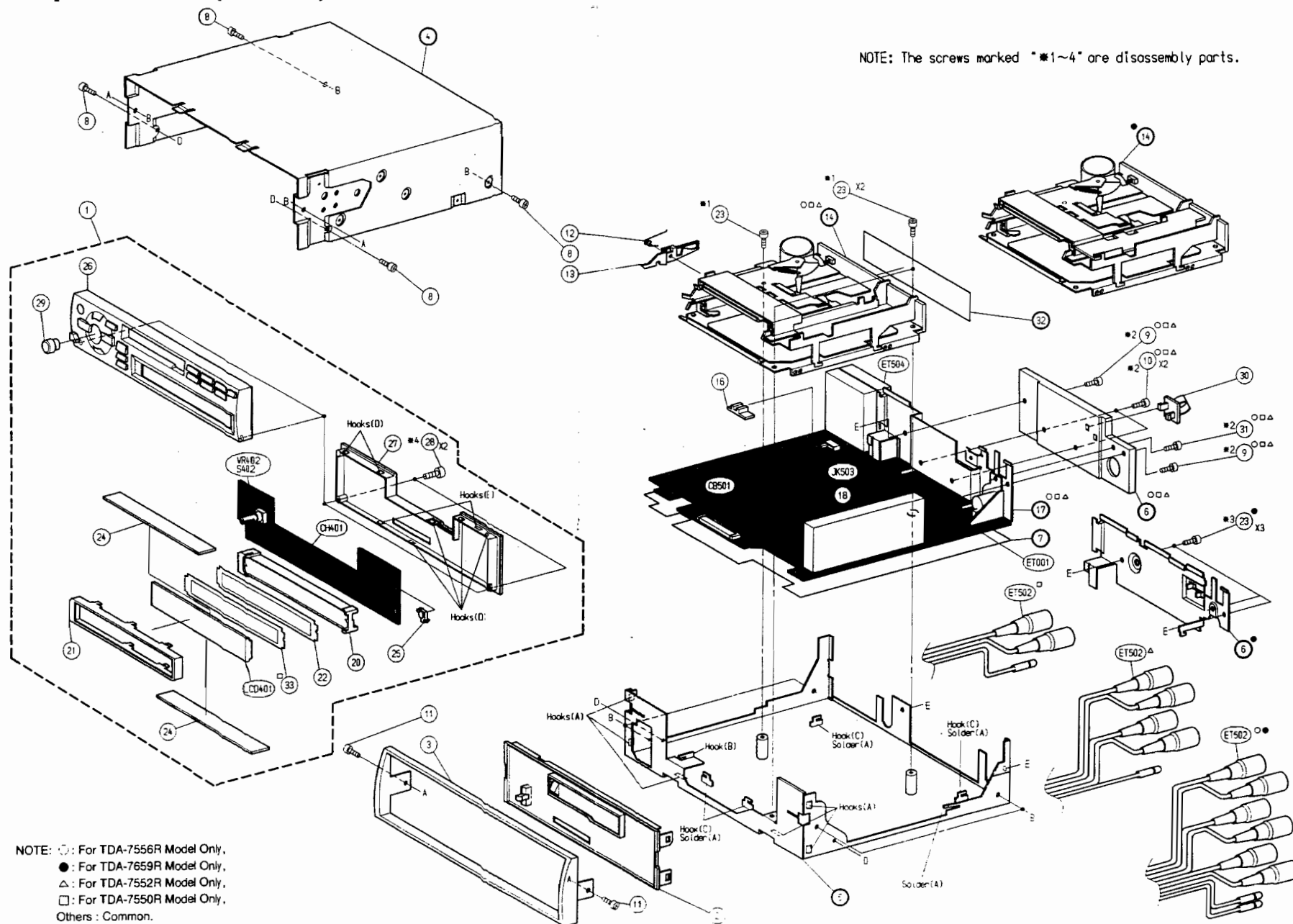
NOTE : ○ : For TDA-7556R Model Only, ● : For TDA-7659R Model Only, △ : For TDA-7552R Model Only,
□ : For TDA-7550R Model Only, Others : Common.

TDA-7556R/7659R
TDA-7552R/7550R

TDA-7556R/7659R
TDA-7552R/7550R

Exploded View (Cabinet)

NOTE: The screws marked "※1~4" are disassembly parts.



NOTE: ○: For TDA-7556R Model Only,
●: For TDA-7659R Model Only,
△: For TDA-7552R Model Only,
□: For TDA-7550R Model Only,
Others: Common.

A

B - 55 -

C

D

E

F - 56 -

G

Cabinet Assembly Parts List

NOTE: No parts number on parts list are not supplied.							
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
○	1	2-A 01V83100W28	Assy., Nose Unit	△	31	3-G 03S44205G61	Screw, Pan (M2.6X10)
●	1	2-A 01V83100W66	Assy., Nose Unit	□	31	3-G 03S44205G61	Screw, Pan (M2.6X10)
△	1	2-A 01V83100W57	Assy., Nose Unit	□	33	4-B 26A80519W02	Reflector, Sheet
□	1	2-A 01V83100W61	Assy., Nose Unit				
○	2	5-E 13C70374W04	Assy., Front Escutcheon				
●	2	5-E 13C70374W05	Assy., Front Escutcheon				
△	2	5-E 13C70374W04	Assy., Front Escutcheon				
□	2	5-E 13C70374W04	Assy., Front Escutcheon				
3	5-C	33C00544K01	Assy., Face Plate				
or	5-C	33C81778W01	Assy., Face Plate				
8		03S38013W24	Screw, Pan (M2.6X6)				
○	9	3-G 03S44205G33	Screw, Pan (M2.6X8)				
△	9	3-G 03S44205G33	Screw, Pan (M2.6X8)				
□	9	3-G 03S44205G33	Screw, Pan (M2.6X8)				
○	10	3-G 03S38013W02	Screw, Pan (M2.6X14)				
△	10	3-G 03S38013W02	Screw, Pan (M2.6X14)				
□	10	3-G 03S38013W02	Screw, Pan (M2.6X14)				
	11	03S38013W13	Screw, Bind (M2.6X6)				
	12	2-D 41A20424W01	Spring, Door				
	13	2-D 45C61079W01	Lever, Door				
	16	3-E 36A70327W01	Knob, Side				
	18	3-E 77B60578W01	FM/MW/LW Tuner Unit, MB4R3010 (FE001)				
	20	4-C 15C00540K01	Assy., Case, LCD				
	21	4-A 15B00536K01	Cover, LCD				
○	22	4-C 26A80519W03	Reflector, Sheet				
●	22	4-C 26A80519W03	Reflector, Sheet				
△	22	4-C 26A80519W03	Reflector, Sheet				
□	22	4-C 26A80519W01	Reflector, Sheet				
○	23	03S44205G29	Screw, Pan (M2.6X6)				
●	23	03S44205G07	Screw, Pan (M2.6X5)				
△	23	03S44205G29	Screw, Pan (M2.6X6)				
□	23	03S44205G29	Screw, Pan (M2.6X6)				
	24	75T85247W01	Rubber, Electric				
	25	4-C 15A80548W01	Cover, LED				
○	26	2-A 13D80502W01	Assy., Nosepiece				
●	26	2-A 13D80502W09	Assy., Nosepiece				
△	26	2-A 13D80502W07	Assy., Nosepiece				
□	26	2-A 13D80502W08	Assy., Nosepiece				
	27	3-C 13D80516W01	Nose, Bottom				
	28	3-C 03S71677F56	Screw, Pan (M1.7X12)				
	29	2-A 36B80547W01	Knob, Rotary (VOLUME)				
	30	3-G 15A70387W01	Holder, Antenna				
○	31	3-G 03S44205G61	Screw, Pan (M2.6X10)				

NOTE: ○: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
□: For TDA-7550R Model Only, Others: Common.

Disassembly Instructions

1. Removal of Nose Unit

- (1) Refer to the Owner's Manual (Part No. 68P81402W53).

2. Removal of Front Escutcheon

- (1) After removal of Face Plate and Top Cover, remove the Hooks (A).Hooks (A) (4-D, 5-E)

3. Removal of Cassette Deck

- (1) After removal of Front Escutcheon, remove three screws No.23.Screws No. 23 (※1) (2-E)
(2) Remove the Hook (B).Hook (B) (5-E)
(3) Disconnect the connector from Main P.C. Board.

4. Removal of Main P.C. Board (TDA-7556R/7552R/7550R Model Only)

- (1) After removal of Cassette Deck, remove five screws No. 9, 10, 31,Screws No. 9, 10, 31 (※2) (3-G)
and remove the Heat Sink.
(2) Remove the Solder (A) and Hooks (C).Solder (A) (5-E, 5-F)
Hooks (C) (5-E, 5-F)
(3) Main P.C. Board with Bracket IC can be removed completely.

5. Removal of Main P.C. Board (TDA-7659R Model Only)

- (1) After removal of Cassette Deck, remove three screws No. 23.Screws No. 23 (※3) (3-G)
(2) Remove the Solder (A) and Hooks (C).Solder (A) (5-E, 5-F)
Hooks (C) (5-E, 5-F)
(3) Main P.C. Board with Bracket Rear can be removed completely.

6. Removal of Front P.C. Board

- (1) After removal of Nose Unit, remove the Rotary Knob and two screws No. 28.Screws No. 28 (※4) (3-C)
(2) Remove the Hooks (D), and remove the Nosepiece.Hooks (D) (3-C, 4-C)
(3) Remove the Hooks (E).Hooks (E) (3-C)

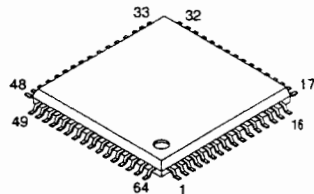
NOTE: For the screws No., Hooks, and Solder, refer to the Exploded View (Cabinet).

Semi - Conductor Lead Identifications

MEMO

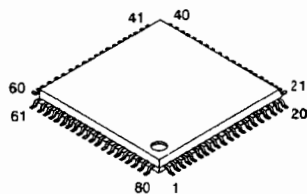
NOTE : For the parts not mentioned, refer to the Schematic Diagram.

85151W08 : IC501



PN NO.	CODE ADDRESS	VO	PN NO.	CODE ADDRESS	VO	PN NO.	CODE ADDRESS	VO
1	⊙ NFP EV DATA	0 20	PACK IN	1	⊙ GND	—	—	—
2	△ NC	—	21	REV DET	1	△ NC	—	—
3	⊙ NOISE PWR	0 22	MODE SW	1	⊙ GND	—	—	—
4	⊙ BLUZZER	0 23	FOR DET	1	⊙ GND	—	—	—
5	⊙ NC	—	24	GND	—	△ J-MET RVOUT	1	1
6	⊙ DTS START	0 25	PAUSE SW	1	⊙ IN INT	1	1	1
7	⊙ DTS MUTE	1 26	MUTE	0	△ PULL-DOWN	—	—	—
8	⊙ DTS CE	0 27	INFP-1	0	⊙ MODEL	1	1	1
9	ALARM	0 28	INFP-2	0	⊙ ENCODER 1	1	1	1
10	⊙ NFP EV CE	0 29	EV DATA	VO 30	ENCODER 2	1	1	1
11	△ NC	—	30	EV CLK	0	⊙ GND	—	—
12	GND	—	31	PWR IC	0	⊙ GND	—	—
13	DOLBY B	0 32	PWR ON	0	⊙ NOISE DET	1	1	1
14	⊙ DOLBY C	0 33	NC	—	34	VDD	—	—
15	△ NC	—	34	BUS OUT	0	⊙ VDD	—	—
16	L.O. FAST	0 35	RESET	1	⊙ LCD DO	1	1	1
17	FOR PREV	0 36	REMOCON	1	⊙ LCD IN	0	0	0
18	⊙ MOTOR	0 37	BUS IN	1	⊙ LCD CLK	0	0	0
19	FIN	0 38	ACC DET	1	⊙ LCD CE	0	0	0
20	F-IN	0 39	BAT DET	1	⊙ LCD RST	0	0	0
21	MTR FAST	1 40	VDD	—	41	DTS STS	1	1
22	M.S. DET	1 41	X2	0	⊙ DTS OMD	0	0	0
23	METAL	1 42	X1	1	⊙ DTS CLK	0	0	0

85088W01 : IC502



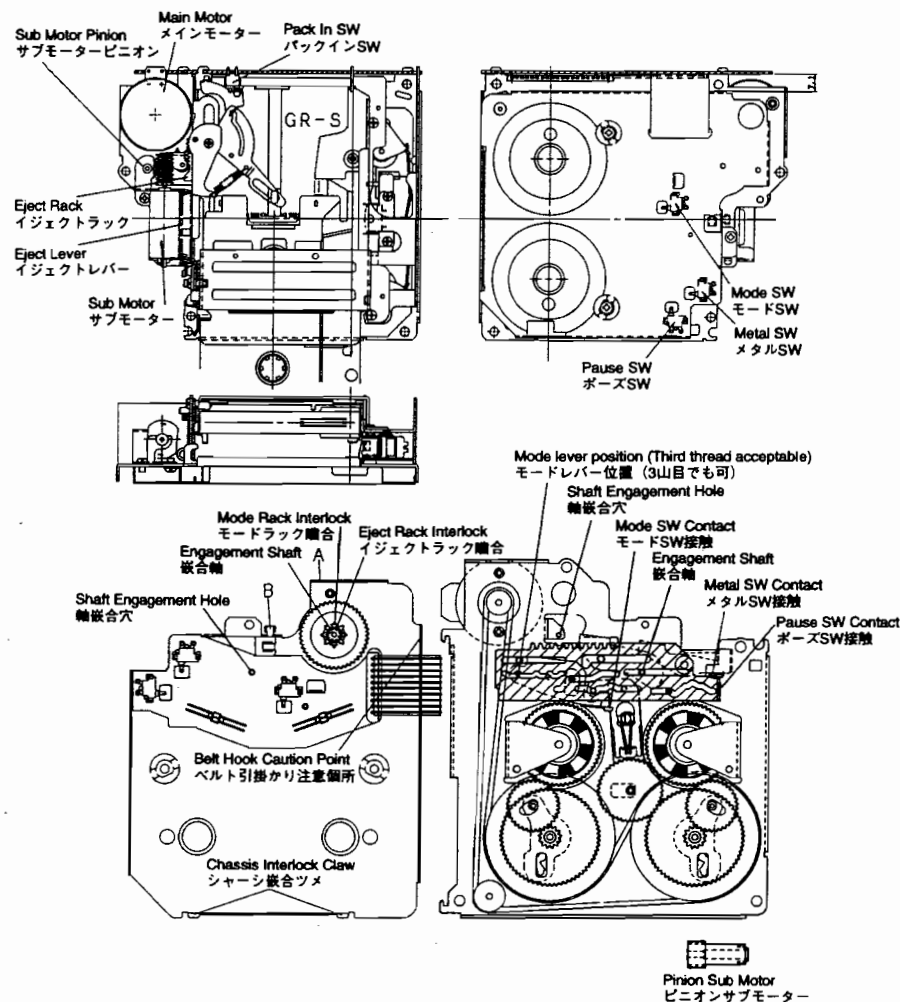
PN NO.	CODE ADDRESS	VO	PN NO.	CODE ADDRESS	VO	PN NO.	CODE ADDRESS	VO	PN NO.	CODE ADDRESS	VO
1	LW	0 21	NC	—	41	NC	—	81	RDS CLK	1	1
2	LOVCR	0 22	NC	—	42	NC	—	82	RDS DATA	1	1
3	MONO	0 23	NC	—	43	NC	—	83	DTS CE	1	1
4	AVSS	—	24	NC	—	44	NC	—	84	NC	—
5	LRF SW	0 25	IF	—	45	NC	—	85	NC	—	—
6	IF MUTE	0 26	NC	—	46	NC	—	86	NC	—	—
7	AVREF1	—	27	NC	—	47	NC	—	87	SAR REF	0 0
8	RFD	1 28	NC	—	48	NC	—	88	VDD	—	—
9	TRD	0 29	NC	—	49	NC	—	89	X2	—	—
10	SYNC	0 30	NC	—	50	NC	—	90	X1	—	—
11	PLL CLK	0 31	NC	—	51	NC	—	91	GND	—	—
12	PLL DATA	0 32	NC	—	52	NC	—	92	NC	—	—
13	PLL CE	0 33	GND	—	53	NC	—	93	PLL DATA1	1	1
14	DTS MUTE	0 34	NC	—	54	NC	—	94	AVDD	—	—
15	DTS START	1 35	NC	—	55	NC	—	95	AVREF0	1	1
16	DTS OMD	1 36	NC	—	56	NC	—	96	5 METER	1	1
17	DTS STS	0 37	NC	—	57	NC	—	97	AV1	1	1
18	DTS CLK	1 38	NC	—	58	PAUSE	0 78	IF P	1	1	
19	INC	—	39	NC	—	59	AUDIO IN	1	79	ST	1
20	NC	—	40	NC	—	60	RESET	1	80	SD	1

NOTE: ⊙: For TDA-7556R Model Only, ●: For TDA-7659R Model Only, △: For TDA-7552R Model Only,
 □: For TDA-7550R Model Only, Others : Common.

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Basic Operation of GR-S Mechanism GR-Sメカ基本動作



Mode rack engagement should be made so that normal engagement is obtained when an end of section A touches the chassis closely with the pinion sub motor inserted in place and rotated after temporary installation of the bottom cover. In this case, the sub motor wires should be positioned in the normal guide of the section B (should not be jammed). The metal lever should be installed by moving the switch contact section to inside of the mechanism as in GR-H.

モードラックの噛合はボトムカバー仮装着後PINION SUB MOTORを正規位置に挿入して回転させる。A部端面がシャーシと密着出来たとき正常な噛合い状態になったことを意味する。又このときサブモータワイヤがB部の正規ガイド位置にあること。(挟み込みさせないこと。)メタルレバーはGR-Hと同様にSW接触部をメカ内部に移動させて組み込むこと。

A. Loading

1. Insert a cassette pack.
2. PACK IN SW goes ON→OFF.
3. SUB motor rotates and the power is transferred to SUB MOTOR PINION, EJECT rack, and EJECT lever, and moves to the direction shown by the arrow.
4. After completion of the cassette pack loading, motion start of the mode lever is detected by checking ON→OFF of the PAUSE SW, and rotation of the SUB MOTOR stops once, and then the SUB MOTOR rotates in reverse direction until the PAUSE SW is ON again. After the stop of the SUB MOTOR, the main motor rotates.
5. When the main motor rotates, both reels rotate in the winding direction and eliminate slack of the tape at the PAUSE position. (Loading completion)

A. ローディング

1. カセットパックを挿入する。
2. PACK IN SWがON→OFFになる。
3. SUBモーターが回転してSUB MOTOR PINION、EJECTラック、EJECTレバーと動力が伝達し、矢印方向へ移動する。
4. カセットパック装着完了後、モードレバーが動き始めたことを、PAUSE SWがON→OFFすることで、検知しSUB MOTORの回転を一旦停止させ、再度PAUSE SWがONするまで逆回転させる、SUB MOTOR停止後メインモーターを回転させる。
5. メインモーターの回転により、両リールを巻き取り方向に回転させ、テープのタルミをPAUSE位置でなくする。(ローディング完了)

B. Play

1. Rotation of the main motor stops and the SUB MOTOR rotates, thereby moving the mode lever to the PLAY position.
2. Motion of the mode lever to the PLAY position is detected by checking ON/OFF number of the mode SW and rotating direction of the sub motor.
3. After detection of the mode lever moved to the PLAY position, the SUB MOTOR rotation stops and the main motor rotates, thus entering the PLAY operation.

B. プレイ

1. メインモーターの回転を停止させ、SUB MOTORを回転させて、モードレバーをPLAY位置に移動させる。
2. モードレバーのプレイ位置への移動はモードSWのON/OFF回数とサブモーターの回転方向で検知する。
3. モードレバーがPLAY位置に移動したことを検知したら、SUB MOTORの回転を停止し、メインモーターを回転させてPLAY動作に入る。

C. PROG

1. With the PROG KEY SW ON, the SUB MOTOR rotates, and the mode lever moves to next PLAY position (NORMAL→REVERSE PLAY or REVERSE→NORMAL PLAY).
2. When the mode switch detects the next PLAY position, the SUB MOTOR rotation stops, and operation shifts to the PLAY.

C. PROG

1. PROG KEY SW ONにより、SUB MOTORを回転させ、モードレバーを次のPLAY位置 (NORMAL→REVERSE PLAY又は、REVERSE→NORMAL PLAY) に移動させる。
2. モードSWが次のPLAY位置を検知したらSUB MOTORの回転を停止し、PLAYに移行する。

D. FF/REW (QUE/REVIEW)

1. With KEY ON, rotation of the main motor stops and the SUB MOTOR rotates to bring the mode lever to the specified position.
2. When the specified position is detected by counting ON/OFF number of the mode SW, the SUB MOTOR rotation stops, and the main motor rotates to perform tape fast winding operation.
(According to the stop position of the mode lever, all of head position retreat, playback engagement releasing, pinch roller retreat, and FF gear engagement are kept.)

D. FF/REW (QUE/REVIEW)

1. KEY ONによりメインモーターの回転を停止し、SUB MOTORを回転させモードレバーを所定の位置に移動させる。
2. モードSWのON/OFF回数をカウントし、所定の位置を検知したらSUB MOTORの回転を停止し、メインモーターを回転させ、TAPE早送り動作を行う。
(モードレバーの停止位置により、ヘッド位置後退、プレイ噛み合い切り離し、ピンチローラー後退、早送り歯車の噛み合いは、全て維持される。)

E. EJECT

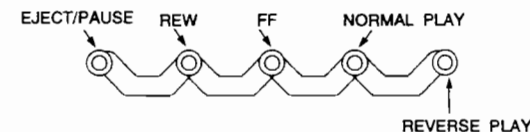
1. With KEY ON, main motor rotation stops and SUB MOTOR rotates, thereby moving the mode lever to the EJECT/PAUSE position.
2. When the PAUSE SW turns on with the mode lever moved, the SUB MOTOR rotation stops, the main motor rotates to perform take up operations for both the reels.
3. When beginning of the reel slip is detected with tape slack eliminated, the main motor rotation stops and the sub motor rotates to move the EJECT lever in the eject direction.
4. When the PACK IN SW goes from OFF to ON, the SUB MOTOR rotation stops and the EJECT operation completes.

E. EJECT

1. KEY ONにより、メインモーターの回転を停止すると共に、SUB MOTORを回転させ、モードレバーをEJECT/PAUSE位置に移動させる。
2. モードレバーの移動は、PAUSE SWがONした所でSUB MOTORの回転を停止しメインモーターを回転させ両リールの巻き取り動作を行う。
3. テープタルミが無くなり、リールスリップが始まったことを、検知したらメインモーターの回転を停止し、SUB MOTORを回転させてEJECTレバーを排出方向に移動させる。
4. PACK IN SWがOFF→ONに切り換わったらSUB MOTORの回転を停止させEJECT完了となる。

Mode lever position

モードレバー位置



Mechanism operations are determined by positions of the mode lever shown above.

メカの動作は上記モードレバーの位置で決まる。

Operations of MODE SW and PAUSE SW

MODE SW、PAUSE SWの動作

REV. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	4	2
	FF		
	REW		
Play	→FF	3	0
	REW	2	0
	PROG	1	0
	EJECT	4	1 (OFF→ON)
FF	→Play	3	0
	REW	1	0
	PROG		
	EJECT	1	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	2	1 (OFF→ON)

ON→OFF number of above
switches
上記SWのON→OFF回数

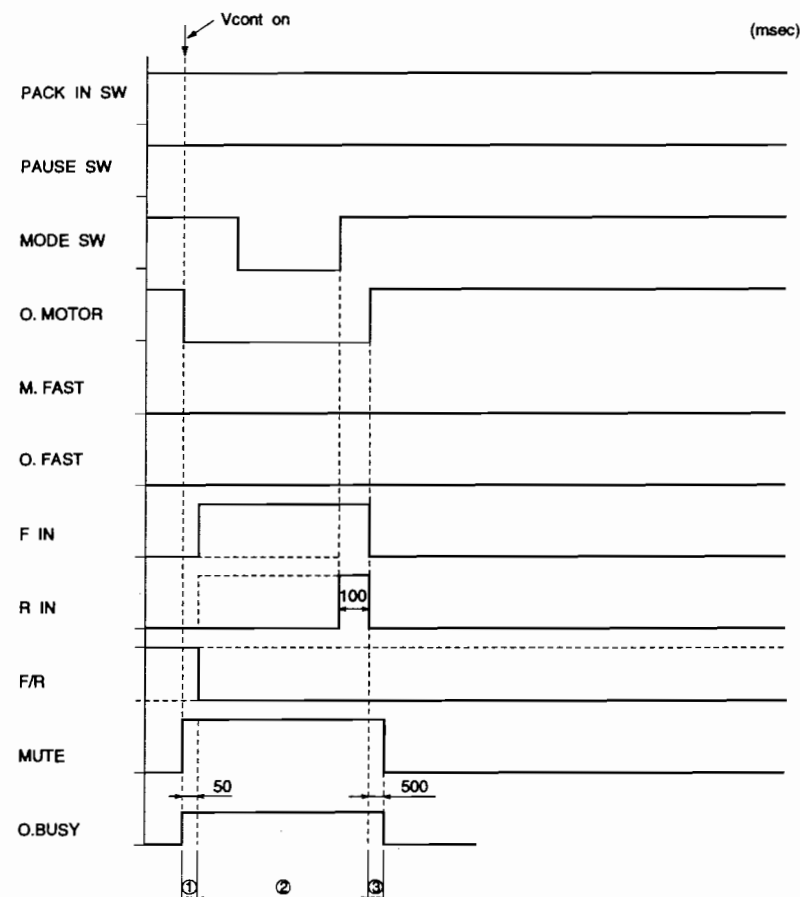
FOR. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	3	2
	FF		
	REW		
Play	→FF	1	0
	REW	2	0
	PROG	1	0
	EJECT	3	1 (OFF→ON)
FF	→Play	1	0
	REW	1	0
	PROG		
	EJECT	2	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	1	1 (OFF→ON)

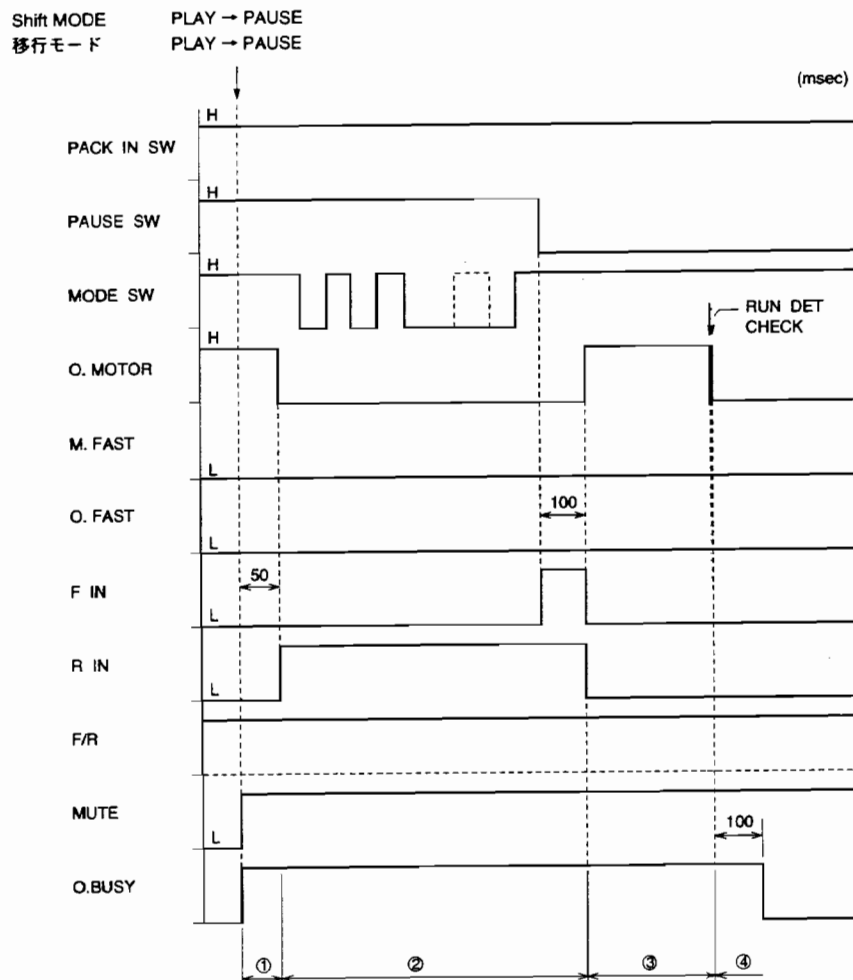
ON→OFF number of above
switches
上記SWのON→OFF回数

Mechanism basic operation timing chart

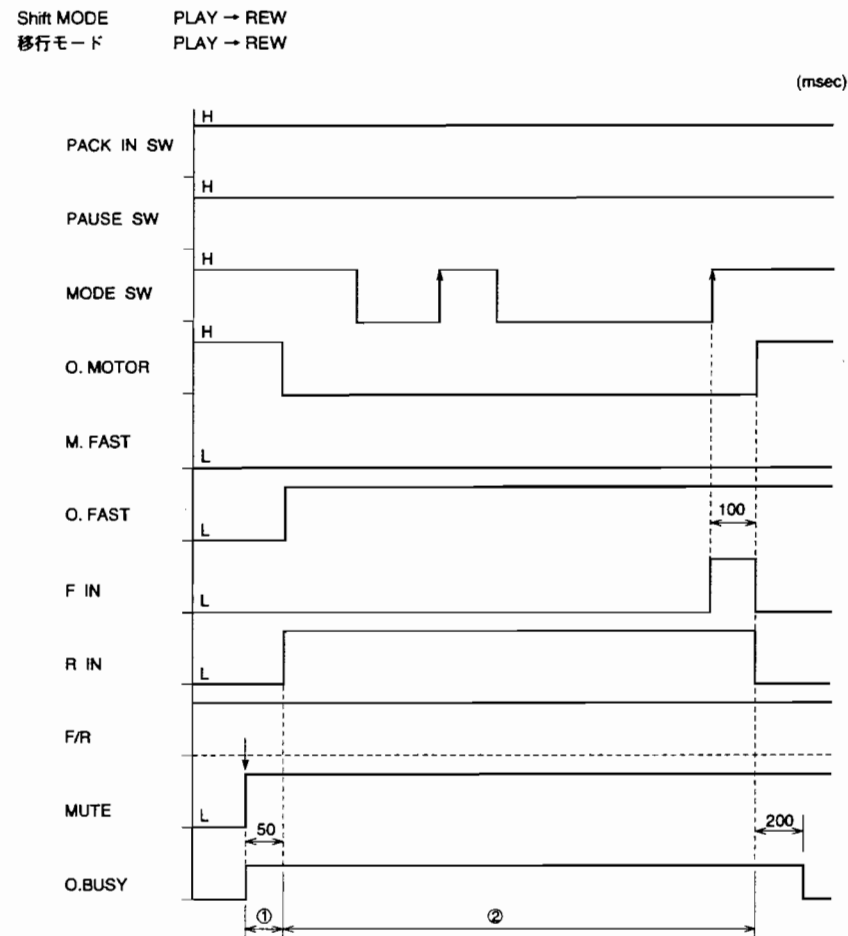
メカニズム基本動作タイミングチャート

Shift MODE
移行モードPLAY → PLAY (PROG)
PLAY → PLAY (PROG)

- ① Tape wind stop: Main motor stops.
 ② Mode lever shift: SUB MOTOR rotates, mode lever moves to a specified position and stops.
 ③ Mode determination: Muting until operation reaches a stable status.
- ① TAPE巻取り停止: MAIN MOTORを停止させる。
 ② MODE LEVER移動: SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。
 ③ MODE確定: 動作安定までMUTE。

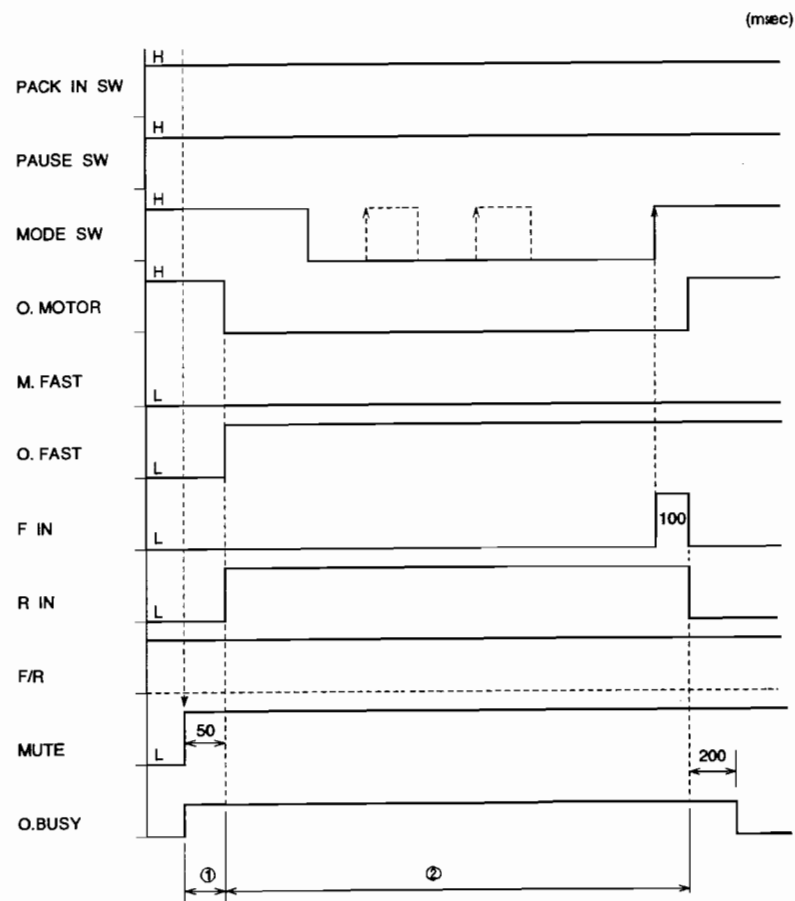


- ① Tape wind stop: Main motor stops.
 - ② Mode lever shift: Sub motor rotates, mode lever moves to a specified position and stops.
 - ③ Removal of tape slack: Both reel rotate in winding direction and eliminate tape slack.
 - ④ Reel stop: Main motor stops when run det pulse reaches a specified value.
- ① TAPE巻取り停止：MAIN MOTOR停止
- ② MODE LEVER移動：SUB MOTORを回し、MODE LEVERを目的の位置まで移動させ停止させる。
- ③ TAPE弛み取り：両リールを巻取方向へ回転させ、TAPEの弛みを無くす。
- ④ リール停止：RUNDET PULSが設定値に達したらMAIN MOTORを停止させる。



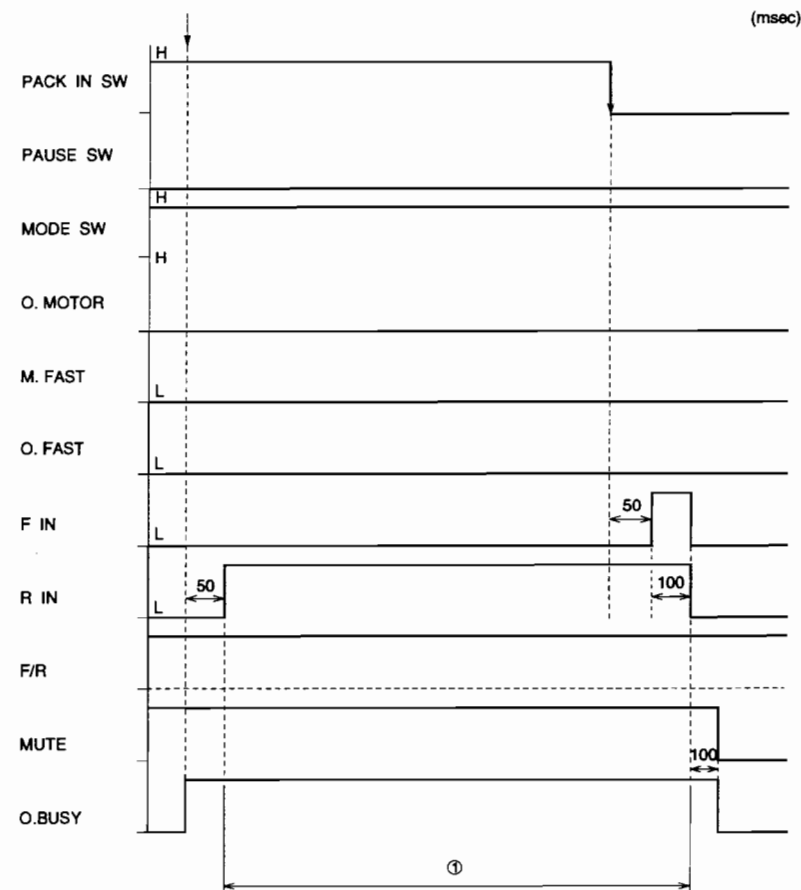
- ① Tape wind stop: Main motor stops.
 - ② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.
- ① TAPE巻取り停止：MAIN MOTOR停止
- ② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE PLAY → FF
移行モード PLAY → FF



- ① Tape wind stop: Main motor stops.
 ② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.
- ① TAPE巻取り停止：MAIN MOTOR停止
 ② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE PAUSE → EJECT
移行モード PAUSE → EJECT



- ① Cassette pack eject: Rotates sub motor and lifts up the cassette holder. Rotates the sub motor further to move slider forward and ejects the pack.
- ① カセットパック排出：SUB MOTORを回しCASSETTE HOLDERをリフトさせる。さらにSUB MOTORを回しスライダを手前に移動させPACKを排出させる。

Disassembly, Assembly and Replacement of Functional Parts

機能部品の分解・組立及び交換方法

1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove three screws ① as shown in Figure 1.
- (3) Lift the bottom cover slowly from the position A-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (4) Set the mechanism to pack down status and place the mode lever to the position shown in Figure 2-1.
- (5) Press the metal switch lever in direction shown by the arrow (refer to Figure 2-2), insert the pinion sub motor shaft to the pinion sub motor hook hole, and insert the chassis engagement claws into the chassis engagement holes. (Check to see the sub motor wire is placed in the normal guide position of B sector.)
- (6) Rotate the pinion sub motor counterclockwise after insertion of the bottom cover, and check to see the end place of A section in Figure 2 is closely touched. (refer to Figure 3)
- (7) Fix the screws that have been removed.

NOTE : ① When fixing the bottom cover, be careful to avoid damage by the belt.
② Fasten the three screws with a fastening torque of 6 kg.cm.

1. ボトムカバーの分解方法及び組立方法

- (1) メカを裏返しにします。(図1参照)
- (2) 3本のネジ①を外します。(図1参照)
- (3) A-1部からボトムカバーをゆっくりと浮かし、切り起こしの嵌合部を外し、分解します。(図1参照)
- (4) 組立時は、メカをバックDOWN状態にして、モードレバーの位置を図2-1の位置に合わせます。
- (5) メタルSWレバーを矢印方向(図2-2参照)に押し、SUB MOTOR嵌合軸をSUB MOTOR軸嵌合穴に挿入し、シャシー嵌合ツメをシャシー嵌合穴に挿入します。←ボトムカバー仮装着完了。
(この時、サブモーターワイヤーがB部正規ガイド位置にあること)
- (6) ボトムカバー仮装着後SUB MOTORを左回りに回し、図2A部端面がシャシーと密着したことを確認します。(図3参照)
- (7) 分解時に外したネジを止めます。

[注意] ① 組立時、ベルトに傷を付けない様に注意して下さい。
② 3本のネジは6kgcmのトルクで締め付けて下さい。

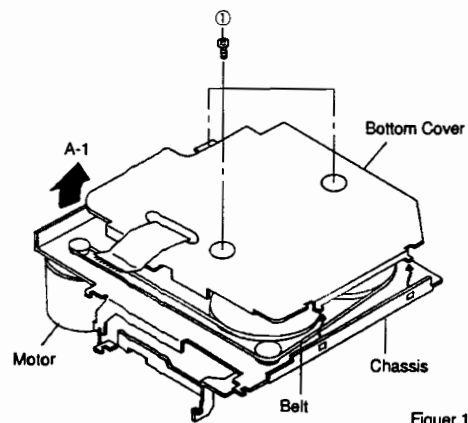


Figure 1

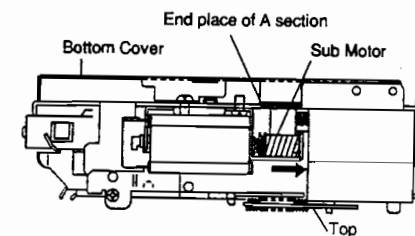
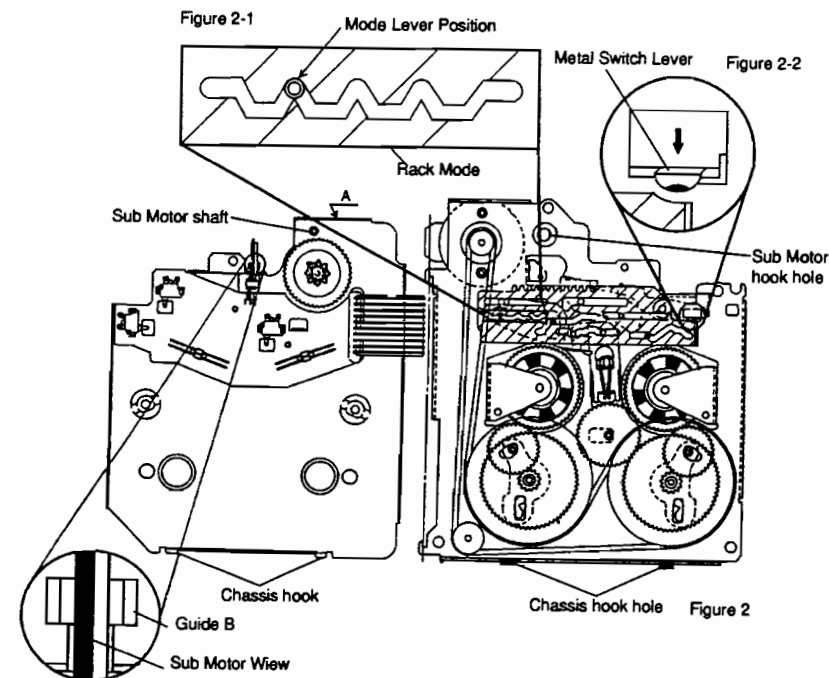


Figure 3

2. Replacement of the bottom cover mounting parts

2. ボトムカバーの取付部品の交換方法

a. Replacement of the inner gear/planet gear/sun gear

- (1) Remove M1.2 lock washer ② as shown in Figure 4.
- (2) Pull the eject pinion out of the inner gear and remove the inner gear, eject base pinion and sun gear as shown in Figure 4.
- (3) Turn the eject base pinion, remove the three planet gear as shown in Figure 4.
- (4) Apply the grease (PG-671) to the section B-1, and mount the inner gear/planet gear/sun gear following the removal steps in the reverse order. After replacement is smoothly. (Refer to Figure 6.)

NOTE : ① Do not reuse the used lock washer for remounting.
 ② Take care to avoid damage by piercing and tearing.
 ③ Do not forget insertion of planet gears. Check number of the gears also.

a. インナーギア/プラネットギア/サンギアの交換方法

- (1) ロックワッシャー② (M1.2) を外します。(図4参照)
- (2) イジェクトピニオンをインナーギアより引き抜き、インナーギア/イジェクトベースピニオン/サンギアの順に外します。(図4参照)
- (3) イジェクトベースピニオンを裏返しにしてプラネットギア (3個) を外します。(図4参照)
- (4) B-1部分にグリス (PG-671) を塗布し、取り外しの逆の手順で組み立てて下さい。尚交換後、ギアの回転がスムーズであるか確認して下さい。(図6参照)

[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
 ② 口開き、めくれのない様に注意して下さい。
 ③ プラネットギアの挿入忘れ、不足のないこと。

b. Replacement of the photo sensor

- (1) Remove eight solders 21 as shown in Figure 5.
- (2) Remove the photo sensor from the photo P.C.Board as shown in Figure 5.
- (3) Solder the legs so that the photo sensor is set as indicated by [] in Figure 5.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to $270^{\circ} \pm 20^{\circ}\text{C}$ and the soldering time to less than 3 seconds.
 ② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

b. フォトセンサーの交換方法

- (1) 8ヶ所の半田21を外し、フォトセンサーをフォト基板より外します。(図5参照)
- (2) 良品のフォトセンサーを図中の[]と同じ方向になる様に半田付けします。(図5参照)

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度 $270^{\circ} \pm 20^{\circ}\text{C}$ 、半田付け時間3秒以下とする。
 ② ルーズ半田、ショート等のないこと。又、皮膜破れに注意すること。

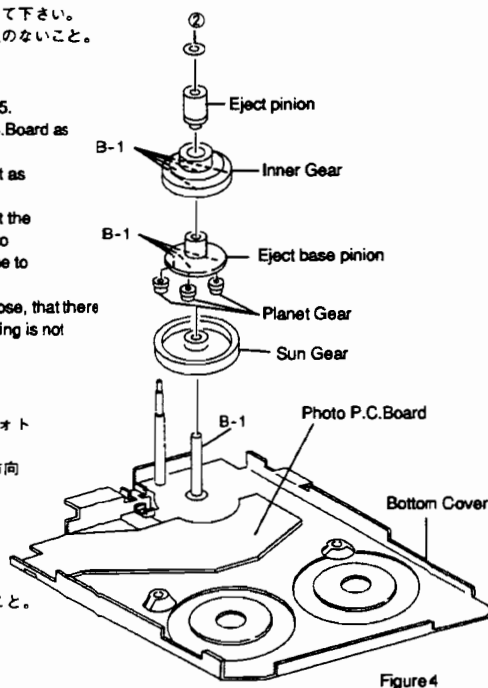


Figure 4

c. Replacement of the detector switch (Pause/Metal/Mode)

- (1) Remove six solders 22 with which the switch is fixed as shown in Figure 5.
- (2) Prepare the terminals of the switch of the new one as shown in Figure 6.
- (3) After that, insert the switch into the photo P.C.Board, and solder the terminals.

NOTE : ① When using the soldering iron, refer to item 2-b to make sure that the temperature of the soldering iron and the soldering time are proper.
 ② Take care that the switch guide is properly fixed and straight.

c. 検出スイッチ (ポーズ・メタル・モード) の交換方法

- (1) スイッチを止めている6ヶ所の半田22をそれぞれ外します。(図5参照)
- (2) 良品のスイッチの端子を水平に直します。(図6参照)
- (3) フォト基板に差し込み、端子を半田付けします。

[注意] ① 項目2-bと同様に半田ゴテのコテ先温度、半田付け時間に注意すること。
 ② スイッチの浮き及び傾きがない様にすること。

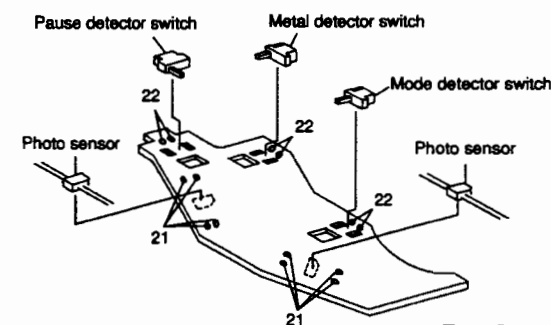


Figure 5

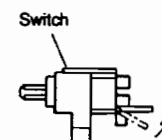


Figure 6

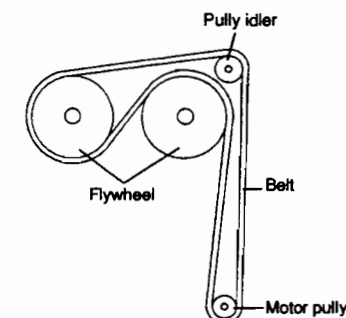


Figure 7

3. Replacement of the mounting parts on the rear of the main chassis

3. メインシャーシー裏側取付部品の交換方法

a. Replacement of the belt

- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 7.

NOTE : ① When fixing the belt, make sure that is not twisted or dirty.
 ② When removing the belt, do not turn up the front of chassis.

a. ベルトの交換方法

- (1) ボトムカバーを外した後、ベルトを取り外します。
- (2) 良品のベルトを無水アルコールでクリーニングしてから掛けます。(7図参照)

[注意] ① 取り付け時、ねじれ及び汚れがない様にすること。
 ② ベルトを取り外した時、シャーシーを裏側にしないこと。

b. Replacement of the main motor

(1) After removing the belt, remove solder ⑫-1, and remove the wire flat (2P) from the control P.C.Board as shown in Figure 10.

(2) Remove two screws ⑦, and remove the main motor as shown in Figure 8.

(3) Mount the new motor following the removal steps in the reverse order.

NOTE: ① When using the soldering iron, set the temperature of the soldering iron to $320^{\circ} \pm 20^{\circ}\text{C}$ and the soldering time to less than 3 seconds.

② Since the wire flat is very easily damaged, handle it with care.

③ Fasten the two screws with a fastening torque of 2kg.cm.

b. メインモーターの交換方法

(1) ベルトを外した後、半田⑫-1を外し、ワイヤーフラット(2P)をコントロール基板より外します。(図10参照)

(2) 2本のネジ⑦を外し、メインモーターを外します。(図8参照)

(3) 食品のメインモーターを取り外し方法の逆の手順で組み立てます。

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度 $320^{\circ} \pm 30^{\circ}\text{C}$ 、半田付け時間3秒以下とする。

② ワイヤーフラットは損傷し易いので取扱いには十分注意すること。

③ 2本のネジは2kgcmのトルクで締め付けること。

c. Replacement of the flywheel

(1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ⑤ located between the flywheel and the chassis.

(Refer to Figure 8)

(2) Fix the polyslider washer to the new flywheel and mount the flywheel to chassis.

c. フライホイールの交換方法

(1) ベルトを外した後、2個のフライホイールを引き抜きます。この時フライホイールとシャシーの間にそれぞれ1個のポリスライダワッシャー⑤がありますので紛失しない様に注意して下さい。(図8参照)

(2) 食品のフライホイールにポリスライダワッシャーを取り付け、シャシーに取り付けます。

d. Replacement of the rack mode

(1) Remove M1.7 lock washer ③, and remove the rack mode as shown in Figure 8.

(2) Apply the molykote G paste to the section D-3, and mount the rack mode following the removal steps in the reverse order. (Refer to Figure 8)

NOTE: ① Check to see the rack mode can move left to right in its full stroke.

② Do not reuse the used lock washer for remounting.

③ Take care to avoid damage by piercing and tearing.

d. ラックモードの交換方法

(1) 2個のロックワッシャー③(M1.7)を外し、シャシーより引き抜き、ラックモードを外します。(図8参照)

(2) 食品のラックモードのD-3部分にモリコートGペーストを塗布し、取り外しの手順で取り付けます。

[注意] ① ラックモードは左右に全ストローク動作することを確認する。

② 一度使用したロックワッシャーは組立時には使用しないで下さい。

③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

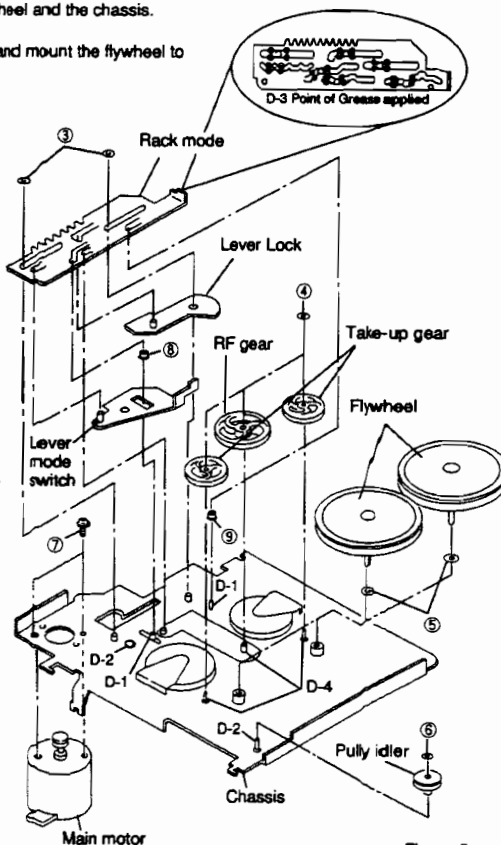


Figure 8

e. Replacement of the lever lock/lever mode switch/roller mode

(1) After removing the rack mode, remove the lever lock and lever mode switch. (Refer to Figure 8)

(2) Pull it up from the stud and remove the two roller mode ⑧, ⑨ as shown in Figure 8.

(3) Apply the molykote G paste to the section D-1, the grease (PG-671) to the section D-2 and mount the roller mode/lever mode switch/lever lock following the removal steps in the reverse order.

NOTE: ① Check to see the roller mode is inserted without fail.

e. レバーロック/レバーモードスイッチ/ローラーモードの交換方法

(1) ラックモードを外した後、レバーロック、レバーモードスイッチの順に引き抜きます。(図8参照)

(2) 2個のローラーモード⑧、⑨をスタートより引き抜きます。(図8参照)

(3) D-1部分にモリコートGペースト、D-2部分にグリス(PG-671)を塗布し、取り外し方の逆の手順で取り付けます。

[注意] ① ローラーモードの挿入忘れがないこと。

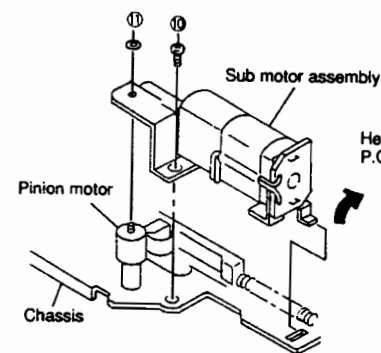


Figure 9

f. Replacement of gears

f-1 Replacement of the RF gear

(1) Remove M1.2 lock washer ④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

f-1 RFギアの交換方法

(1) ロックワッシャー④(M1.2)を外し、スタートより引き抜きギアを外します。(図8参照)

(2) 取り外し方の逆の手順で取り付けます。

f-2 Replacement of the take-up gear

(1) Remove M1.2 lock washer ④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

NOTES on f-1 and f-2:

① Do not reuse the used lock washer for remounting.

② Take care to avoid damage by piercing and tearing.

f-2 テイクアップギアの交換方法

(1) 2個のロックワッシャー④(M1.2)を外し、スタートより引き抜きギアを外します。(図8参照)

(2) 取り外し方の逆の手順で取り付けます。

[f1, f2の注意]

① 一度使用したロックワッシャーは組立時には使用しないで下さい。

② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

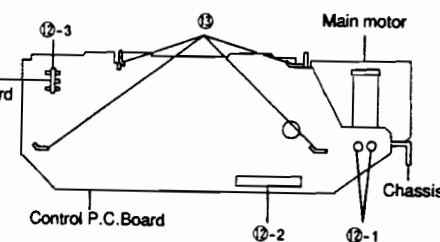


Figure 10

4. Replacement of the parts mounted on the front of the main chassis

4. メインシャーシ前面部品の交換方法

a. Replacement of the control P.C.Board

- (1) Remove four solders ⑫ and remove the head P.C.Board and the two wire flat as shown in Figure 10.
- (2) Remove four claws ⑬ and remove the P.C.Board as shown in Figure 10.
- (3) After replacing the old P.C.Board with a new one, mount it following the removal steps in the reverse order.

NOTE: ① Since the wire flat is very easily damaged, handle it with care.

- ② When using the soldering iron, set the temperature of the soldering iron to $320^{\circ} \pm 30^{\circ}\text{C}$ and the soldering time to less than 3 seconds, but solder point ⑫-3 to less than 1 second.
- ③ Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

a. コントロール基板の交換方法

- (1) 4ヶ所の半田⑫を外し、ヘッド基板と2本のワイヤーフラット (2P)、(10P) をそれぞれ外します。(図10参照)
- (2) 4ヶ所のツメ⑬を外し、コントロール基板を外します。(図10参照)
- (3) 良品のコントロール基板と交換後、取り外し方の逆の手順で基板を取り付けます。

[注意] ① ワイヤーフラットは損傷し易いので取扱いには十分注意すること。

- ② 半田ゴテを使用する際、半田ゴテ先温度 $320^{\circ} \pm 30^{\circ}\text{C}$ 、半田付け時間3秒以下とする。但し、⑫-3は1秒以下とする。
- ③ ルーズ半田、ショート等のないこと。

b. Replacement of the sub motor assembly

- (1) Remove M1.2 lock washer ⑪ and one screw ⑩ as shown in Figure 9.
- (2) Remove the sub motor assembly by pulling it up in the direction of the arrow as shown in Figure 9.
- (3) Mount it, following the removal steps in the reverse order.

NOTE: ① Do not reuse the used lock washer for remounting.

- ② Take care to avoid damage by piercing and tearing.
- ③ Fasten the one screw with a fastening torque of 6kg.cm.

b. サブモーター組立の交換方法

- (1) ロックワッシャー⑪ (M1.2) と1本のネジ⑩を外します。(図9参照)
- (2) 図中の矢印の方向へ持ち上げながらサブモーター組立を外します。(図9参照)
- (3) 取り外し方の逆の手順で取り付けます。

[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。
③ ネジは6kgcmのトルクで締め付けること。

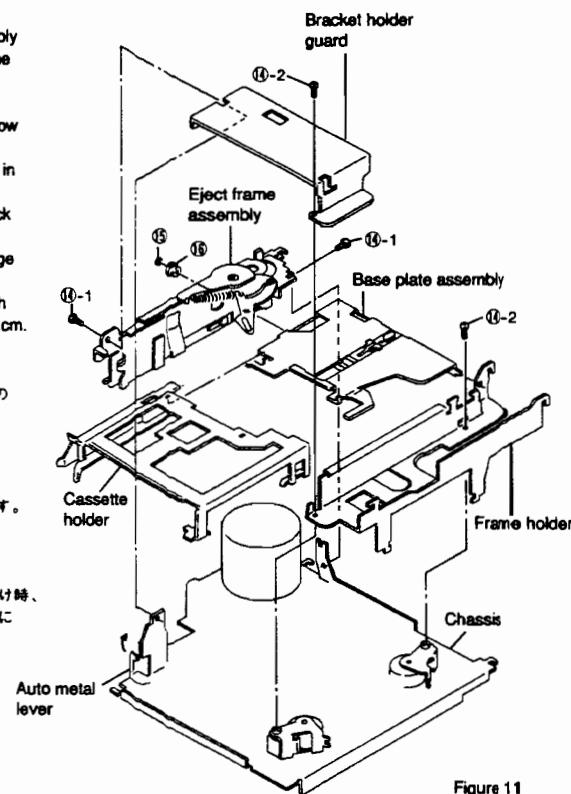


Figure 11

c. Disassembly and assembly of the cassette holder

- (1) Remove four screws ⑭ and remove the eject frame assembly and the frame holder as shown in Figure 11.
- (2) Remove M1.2 lock washer ⑮ and plate base roller ⑯ and remove the cassette holder and the base plate assembly as shown in Figure 11.
- (3) Remount them following the removal steps in the reverse order.

NOTE: ① When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 12)

- ② When mounting the eject frame assembly, push the auto metal lever in the direction indicated by the arrow in the Figure 11.
- ③ When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
- ④ Do not reuse the used washers. Take care to avoid damage by piercing and tearing.
- ⑤ Fasten the two screws ⑭-1 with a fastening torque of 6kg.cm. and the two screws ⑭-2 with a fastening torque of 1.5kg.cm.

c. カセットホルダーの分解方法及び組立方法

- (1) 4本のネジ⑭を外し、イジェクトフレーム組立及びフレームホルダーを外します。(図11参照)
- (2) ロックワッシャー⑮ (M1.2) とプレートベースローラー⑯を外し、カセットホルダーとベースプレート組立を外します。(図11参照)
- (3) 分解方法と逆の手順で取り付けます。

[注意] ① カセットホルダーとベースプレート組立を組み立てる際、スライダーのシャフトをイジェクトアームに挿入し、図の様に矢印方向に回しながら取り付けます。この時カセットホルダーとベースプレートはカセットインの状態で行うこと。(図12参照)
② イジェクトフレーム組立をシャーシに取り付ける際、オートメタルレバーを図の様に矢印方向に押して下さい。(図11参照)
③ ベースプレート組立とイジェクトフレーム組立を取り付ける際、又、シャーシとイジェクトフレーム組立を取り付ける際は、必要以上の力を加えないで下さい。(イジェクトアーム、フレームの変形防止の為)
④ 一度使用したワッシャーは、使用しないこと。又、口開き、めくれのないこと。
⑤ ネジ⑭-1は6kgcm、⑭-2は1.5kgcmのトルクで締め付けること。

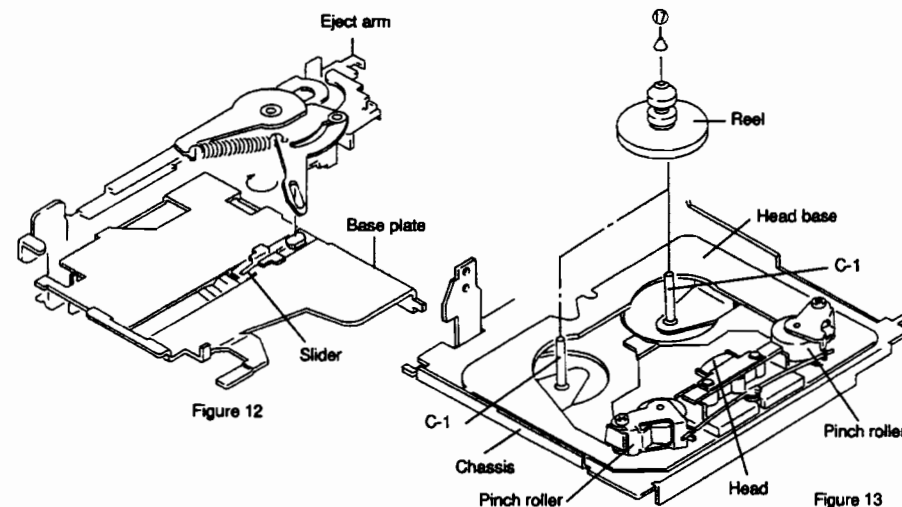


Figure 12

Figure 13

d. Replacement of the reels

- (1) Remove two reel cap ⑪ as shown in Figure 13.
 - (2) After replacement, apply the grease (PG-671) to the section C-1, and mount the new reels following the removal steps in the reverse order.
 - (3) After mounting, check the tape speed and the wow & flutter with test tape MTT-111N.
- NOTE: ① Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear.

d. リールの交換方法

- (1) 2個のリールキャップ⑪をそれぞれ外します。(図13参照)
 - (2) 良品のリールと交換後C-1部分にグリス (PG-671) を塗布し、取り外し方の逆の手順で取り付けます。
 - (3) 取り付け後、必ずテストテープ (MTT-111N) でテープスピード・ワウフラッターの確認をすること。
- [注意] ① リールの取り外し、取り付けの際、キャップをつかむと外れ易いので必ずギア部をつかんで行って下さい。

e. Replacement of the pinch rollers

- (1) Remove pinch roller spring ⑬ as shown in Figure 14.
 - (2) Remove M3.1 two lock washers ⑭ and remove the pinch roller and guide pack as shown in Figure 14.
 - (3) Mount the pinch rollers following the removal steps in the reverse order. Apply the molykote G paste to the section C-2 as shown in Figure 14.
- NOTE: ① Make sure that the pinch rollers are thoroughly fixed and that they are not deformed.
② Do not reuse the used lock washers for remounting.
③ Take care to avoid damage by piercing and tearing.

e. ピンチローラーの交換方法

- (1) ピンチローラー・スプリング⑬を外します。(図14参照)
 - (2) 2個のロックワッシャー⑭ (M3.1) をそれぞれ外し、ガイドバックと一緒にピンチローラーを外します。(図14参照)
 - (3) C-2部分にモリコートGペーストを塗布し、取り外し方の逆の手順で取り付けます。
- [注意] ① ピンチローラーの半掛け、変形のないこと。
② 一度使用したロックワッシャーは組立時には使用しないで下さい。
③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

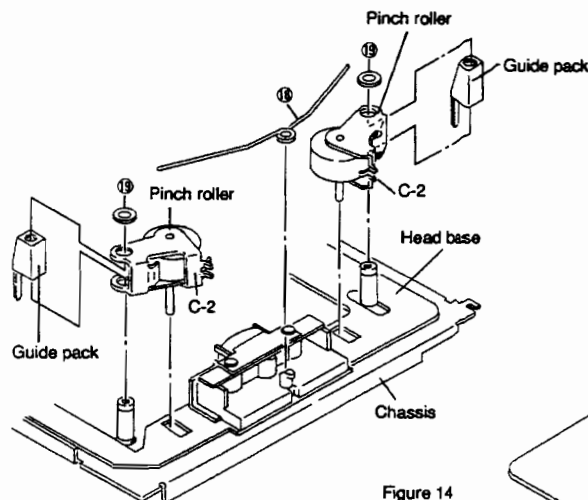


Figure 14

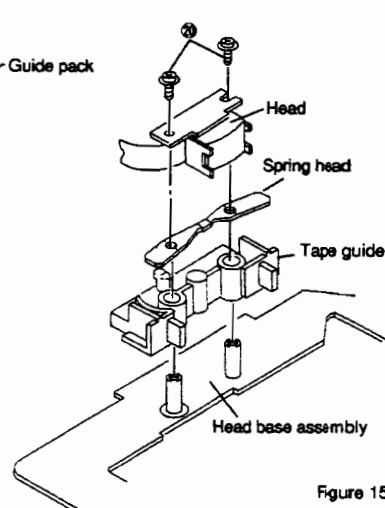


Figure 15

f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws ⑯ as shown in Figure 15.
 - (2) Remove solder 23 and remove the head from the head P.C.Board as shown in Figure 16.
 - (3) After replacement, mount the new head following the removal steps in the reverse order.
- NOTE: ① When using the soldering iron, set the temperature of the soldering iron to $270^{\circ} \pm 20^{\circ} \text{C}$ and the soldering time to less than 1 second.
② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.
③ Do not bring the soldering iron near the head P.C.Board. Make sure that the head P.C.Board is not lifted.
④ Fasten the two screws with a fastening torque 1kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.
- (4) Adjust the height of the head as shown in Figure 17, 18 and 19.
- (4) -1 Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
 - (4) -2 When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t0.1mm or polyslider washer t0.13mm). If necessary, remove the spacer.
- NOTE: ① If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.
- (5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-114NB. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

f. ヘッドの交換方法

- (1) ピンチローラー・スプリングを外した後、2本のネジ⑯を外します。(図15参照)
 - (2) 半田23を外し、ヘッド基板からヘッドを取り外します。(図16参照)
 - (3) 良品のヘッドと交換後、取り外し方の逆の手順で取り付けます。
- [注意] ① 半田ゴテを使用する際、半田ゴテ先温度 $270^{\circ} \pm 20^{\circ} \text{C}$ 、半田付け時間1秒以下とする。
② ルーズ半田、ショート等のないこと。
③ ヘッド基板には、コテ先を当てないこと。又、ヘッド基板に浮きがない様に注意すること。
④ 2本のネジは1kgcmのトルクで締め付けること。但し、ネジを締め過ぎるとヘッドパネがヘタリ、バネ性がなくなるので注意すること。
- (4) ヘッド高さ調整を行います。(図17、18、19参照)
- (4) -1 高さゲージ (AI-500) をヘッドベースにのせ、チェック・バーがテープヘッドガイドにスムーズに入る高さに合わせます。
 - (4) -2 テープガイドの上 (又は下) にチェック・バーが当たる時は、スペーサー (t0.1mm又はポリスライダワッシャーt0.13mm) を一枚入れます。又は、スペーサーを外すことによって当りをなくす様にします。
- [注意] ① (4) -1の様に高さゲージがない場合は、テープを通常走行させ、テープカーリングが生じなくなる様に高さ (ヘッド及びテープヘッドガイド) を調整します。
- (5) 最終的な1台のメカと言う状態に組み上げた後、テストテープ (MTT-114NB) でヘッドの角度を調整します。(ヘッド角度調整方法の項目を参照して下さい。) 調整後、ネジロックを塗布し、ネジを固定します。

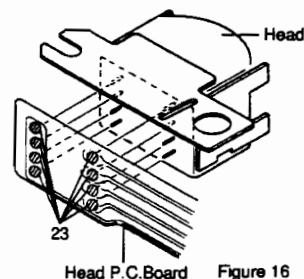


Figure 16

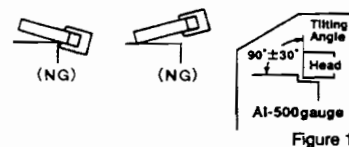


Figure 17

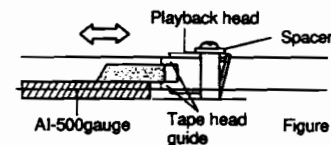


Figure 18

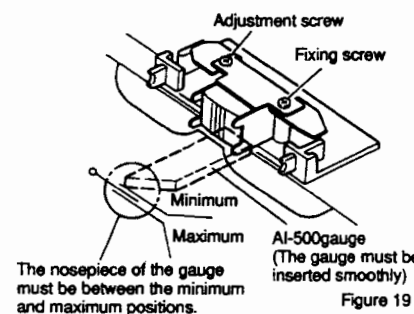
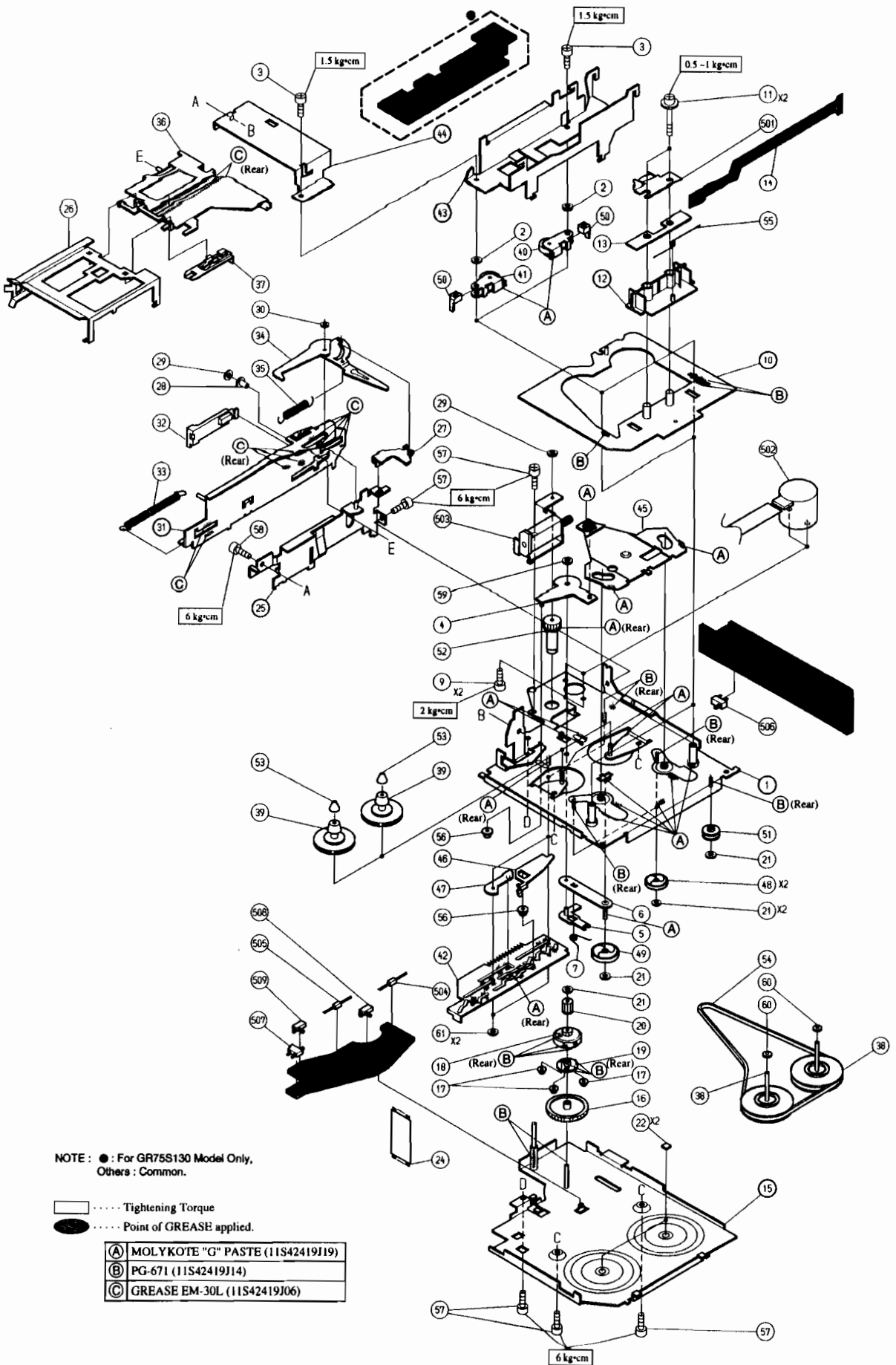


Figure 19

Exploded View (Cassette Deck Mechanism)

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SERIES



Cassette Deck Mechanism Assembly Parts List

NOTE: No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
2		04B41345P02	Washer, Lock (M3.1)
3		03S43997P63	Screw, Pan (M1.7 x4)
4	3-D	01A71716W01	Assy., Riv. Select Swing
5	2-F	01A71714W01	Assy., Riv. RF Lever A
6	2-E	01A71715W01	Assy., Riv. RF Lever B
7	2-F	41A71781W01	Spring, RF
9	3-D	03C42723U12	Screw, Cup (M2 x2.5)
11		03A80452W01	Screw, F Locks (M2 x10.7)
13	2-B	41A31756W01	Spring, Head
14	2-B	84T45462W01	Head P.C.Board
14	2-B	84T25151W01	Head P.C.Board
16	2-G	44A71747W01	Gear, Sun
17		44A71748W01	Gear, Planet
18	3-F	44A71749W01	Gear, Inner
19	2-F	44A71751W01	Pinion, Eject Base
20	2-F	44A71752W01	Pinion, Eject
21		04B41345P11	Washer, Lock (M1.2)
22	2-G	43A41656W01	Spacer, UHMW-PE
24	3-G	30T85174W07	Wire, Flat 10P
26	5-B	07B71778W01	Holder, Cassette
27	3-C	45A71736W01	Lever, Pack In Switch
28	5-C	43A71775W01	Roller, Plate Base
29		04B41345P01	Washer, Lock (M1.2)
30	4-B	04B41345P15	Washer, Lock (M1.2)
32	5-C	44A71753W01	Rack, GR-S
33	5-C	41A80634W01	Spring, Rack
34	4-C	01A71720W01	Assy., Riv. Eject Arm A
35	4-C	41B63283F11	Spring
36	4-A	01A71712W01	Assy., Riv. Plate Base
37	3-B	45B71750W01	Slider
38		01A71783W01	Flywheel
39		01A71784W01	Reel
40	3-B	01B81372W01	Assy., Pinch Roller
41	3-B	01B81372W02	Assy., Pinch Roller
42	3-F	44B71726W01	Rack, Mode
45	2-C	45B71729W01	Lever, Select
46	3-E	45A71737W01	Lever, Mode Switch
47	3-E	45A71733W01	Lever, Lock
48	2-E	44A71741W01	Gear, Take Up
49	2-F	44A71742W01	Gear, RF
50		43A71743W01	Guide, Pack
51	2-E	49A71744W01	Pulley, Idler
52	3-D	44A71746W01	Pinion, Motor
53		49A71003W01	Reel, Cap
54	2-F	42A71780W01	Belt

Symbol No.	Index	Part No.	Description
55	2-B	41A10387W01	Spring, Pinch Roller
56		43A71774W01	Roller, Mode
57		03S44205G30	Screw, Pan (M2.6 x4)
58	4-D	03A80629W01	Screw, Special (M2.6 x6)
59	3-D	04B41345P02	Washer, Lock (M1.7)
60	2-F	04S40075G05	Washer, Polyslider (M2.1)
or	2-F	04T55449W01	Washer, Teflon
61	3-F	04B41345P13	Washer, Lock (M1.7)

Miscellaneous

Symbol No.	Index	Part No.	Description
501	2-A	88T75612W01	Head
502	2-C	01V74500W18	Assy., Main Motor (13.2V-55mA)
502	2-C	01V84200W63	Assy., Main Motor (1V-90mA)
503	3-D	01V74500W23	Assy., Sub Motor (7V-370mA)
504	3-F	51T63433F03	Sensor, Photo ON2170-R2
505	4-F	51T63433F03	Sensor, Photo ON2170-R2
506	2-D	40T15222W01	Switch, Detector (PACK IN)
507	4-F	40T15382W02	Switch, Detector (PAUSE)
508	4-F	40T15382W02	Switch, Detector (MODE)
509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE: No parts number on parts list are not supplied.

Miscellaneous

501	2-A	88T75612W01	Head
502	2-C	01V74500W16	Assy., Main Motor (13.2V-55mA)
502	2-C	01V84200W63	Assy., Main Motor (1V-60mA)
503	3-D	01V74500W23	Assy., Sub Motor (7V-370mA)
504	3-F	51T63433F03	Sensor, Photo ON2170-R2
505	4-F	51T63433F03	Sensor, Photo ON2170-R2
506	2-D	40T15222W01	Switch, Detector (PACK IN)
507	4-F	40T15382W02	Switch, Detector (PAUSE)
508	4-F	40T15382W02	Switch, Detector (MODE)
509	4-F	40T15382W02	Switch, Detector (METAL)

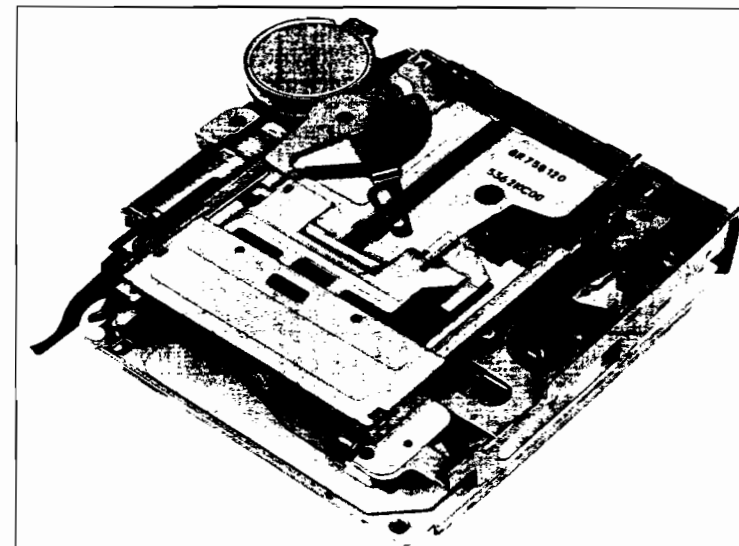
NOTE: ○: For GR75S120 Model Only, ●: For GR75S130 Model Only, Others: Common.

ALPINE® SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED

- This manual is described on GR75S310 only. The GR75S310 is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual * GR-S SERIES (68E23241S01).
- 当マニュアルはGR75S310についてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



GR-S SERIES

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Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual - GR-S SERIES
(Part No. 68E23241S01).

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE: The parts is not mentioned, refer to the Service Manual - DR-S SERIES (Part No.68E23241S01).

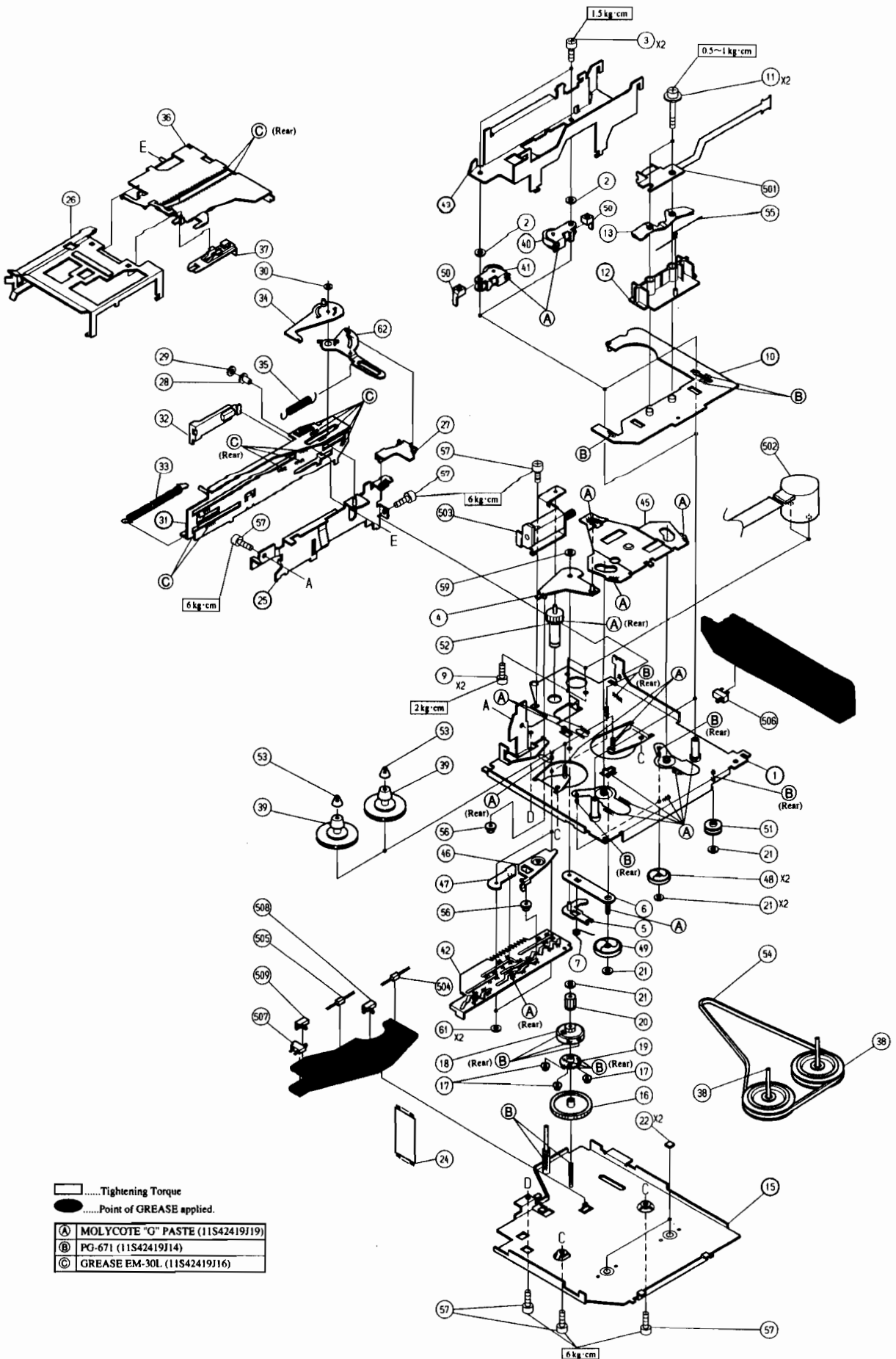
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
4	3-D	01A90342W01	Assy., Riv. Select Swing	45	2-C	45B90320W01	Lever, Select
5	2-F	01A90340W01	Assy., Riv. RF Lever A	46	3-E	45A71737W02	Lever, Mode Switch
6	2-F	01A90341W01	Assy., Riv. RF Lever B	47	3-E	45A71733W02	Lever, Lock
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	53		49A81855W01	Reel, Cap
13	2-B	41A31756W02	Spring, Head	54	2-F	42A71780W02	Belt
26	5-B	07B40012W02	Holder, Cassette	55	2-B	41A10387W02	Spring, Pinch Roller
27	3-C	45A71736W02	Lever, Pack In Switch	62	3-B	45A90322W01	Lever, Eject Arm A
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)	Miscellaneous			
36	4-A	01A90338W01	Assy., Riv. Plate Base	501	2-B	08T95215W02	Head
38		01A90350W01	Assy., Flywheel	503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)
40	3-B	01B30863W01	Assy., Pinch Roller				
41	3-B	01B30863W02	Assy., Pinch Roller				
42	3-F	44B90318W01	Rack, Mode				

カセットデッキメカニズム関係部品表

* 記載されていない部品については、サービスマニュアル・GR-S SERIES (68E23241S01) を参照願います。

記号	索引	部品番号	部品名	標準卸価格	記号	索引	部品番号	部品名	標準卸価格
4	3-D	01A90342W01	Assy., Riv. Select Swing	—	45	2-C	45B90320W01	Lever, Select	—
5	2-F	01A90340W01	Assy., Riv. RF Lever A	—	46	3-E	45A71737W02	Lever, Mode Switch	—
6	2-F	01A90341W01	Assy., Riv. RF Lever B	—	47	3-E	45A71733W02	Lever, Lock	—
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45	53		49A81855W01	Reel, Cap	45
13	2-B	41A31756W02	Spring, Head	60	54	2-F	42A71780W02	Belt	—
26	5-B	07B40012W02	Holder, Cassette	260	55	2-B	41A10387W02	Spring, Pinch Roller	—
27	3-C	45A71736W02	Lever, Pack In Switch	—	62	3-B	45A90322W01	Lever, Eject Arm A	—
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)	—	その他の電気部品				
36	4-A	01A90338W01	Assy., Riv. Plate Base	—	501	2-B	08T95215W02	Head	1,210
38		01A90350W01	Assy., Flywheel	—	503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)	1,440
40	3-B	01B30863W01	Assy., Pinch Roller	240					
41	3-B	01B30863W02	Assy., Pinch Roller	240					
42	3-F	44B90318W01	Rack, Mode	—					

Exploded View (Cassette Deck Mechanism)



5

4

3

2

1

A

B -3-

C

D

E

F -4-

G

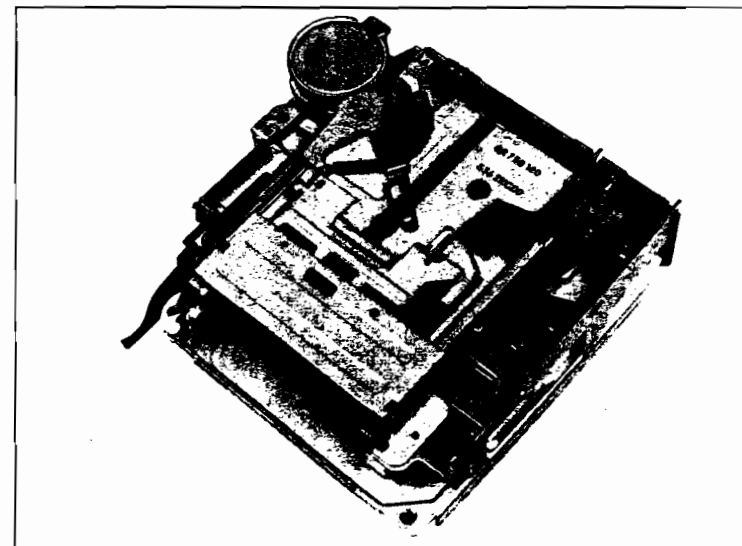
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////ALPINE SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (II)

- This manual is described on GR75S410/42Y only. The GR75S410/42Y is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E23241S01).
- 当マニュアルはGR75S410/42Yについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



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Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual ·
GR-S SERIES
(Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

Symbol Index Part No. Description				Symbol Index Part No. Description			
2		04B41345P32	Washer, Lock (M3.1)	57		03S44205G30	Screw, Pan (M2.6X4)
3		03S43997P63	Screw, Pan (M1.7X4)	58	4-D	03A80629W01	Screw, Special (M2.6X6)
4	3-D	01A90342W02	Assy., Riv. Select Swng	59	3-D	04B41345P02	Washer, Lock (M1.7)
5	2-F	01A71714W01	Assy., Riv. RF Lever A	60	2-F	04S40075G05	Washer, Polyslider (M2.1)
6	2-E	01A90341W02	Assy., Riv. RF Lever B	or	2-F	04T55449W01	Washer, Polyslider (M2.1)
7	2-F	41A71781W01	Spring, RF	61	3-F	04B41345P23	Washer, Lock (M1.7)
9	3-D	03C42723U12	Screw, Cup (M2X2.5)	62	3-B	45A90322W02	Lever, Eject Arm A
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	Miscellaneous			
13	2-B	41A31756W01	Spring, Head	501	2-B	88T95215W02	Head
16	2-F	44A71747W01	Gear, Sun	501	2-B	88T75612W03	Head
17		44A71748W01	Gear, Planet	502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
18	3-F	44A71749W01	Gear, Inner	502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)
19	2-F	44A71751W01	Pinion, Eject Base	503	3-C	01V74500W23	Assy., Sub Motor (7V-370mA)
20	2-F	44A71752W01	Pinion, Eject	504	3-F	51T83433F03	Sensor, Photo ON2170-R2
21		04B41345P11	Washer, Lock (M1.2)	505	4-F	51T83433F03	Sensor, Photo ON2170-R2
22	2-G	43A41656W01	Spacer, UHMW-PE	506	2-D	40T15222W01	Switch, Detector (PACK IN)
24	3-G	30T85174W07	Wire, Flat 10P	507	4-F	40T15382W02	Switch, Detector (PAUSE)
26	5-B	07B71778W01	Holder, Cassette	508	4-E	40T15382W02	Switch, Detector (MODE)
27	3-C	45A71736W03	Lever, Pack In Switch	508	4-F	40T15382W02	Switch, Detector (METAL)
28	4-C	43A71775W01	Roller, Plate Base				
29	4-C	04B41345P01	Washer, Lock (M1.2)				
30	4-B	04B41345P15	Washer, Lock (M1.2)				
32	4-C	44A71753W01	Rack, GR-S				
33	4-C	41A80634W01	Spring, Rack				
34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)				
35	4-C	41B63283F11	Spring				
36	4-A	01A71712W01	Assy., Riv. Plate Base				
37	4-B	45B71750W01	Slider				
38		01A90350W01	Assy., Flywheel				
38		01A71783W10	Assy., Flywheel				
39		01A71784W01	Reel				
40	3-B	01B30863W01	Assy., Pinch Roller				
41	3-B	01B30863W02	Assy., Pinch Roller				
42	3-F	44B71726W01	Rack, Mode				
45	2-C	45B90320W02	Lever, Select				
46	3-E	45A71737W03	Lever, Mode Switch				
47	3-E	45A71733W03	Lever, Lock				
48	2-E	44A71741W01	Gear, Take Up				
49	2-F	44A71742W01	Gear, RF				
50		43A71743W01	Guide, Pack				
51	2-E	49A71744W01	Pulley, Idler				
52	3-D	44A71746W01	Pinion, Motor				
53		49A81855W01	Reel, Cap				
54	2-F	42A71780W02	Belt				
55	2-B	41A10387W02	Spring, Pinch Roller				
56	3-E	43A71774W01	Roller, Mode				

NOTE: ○: For GR75S410 Model Only, ●: For GR75S42Y Model Only, Others: Common.

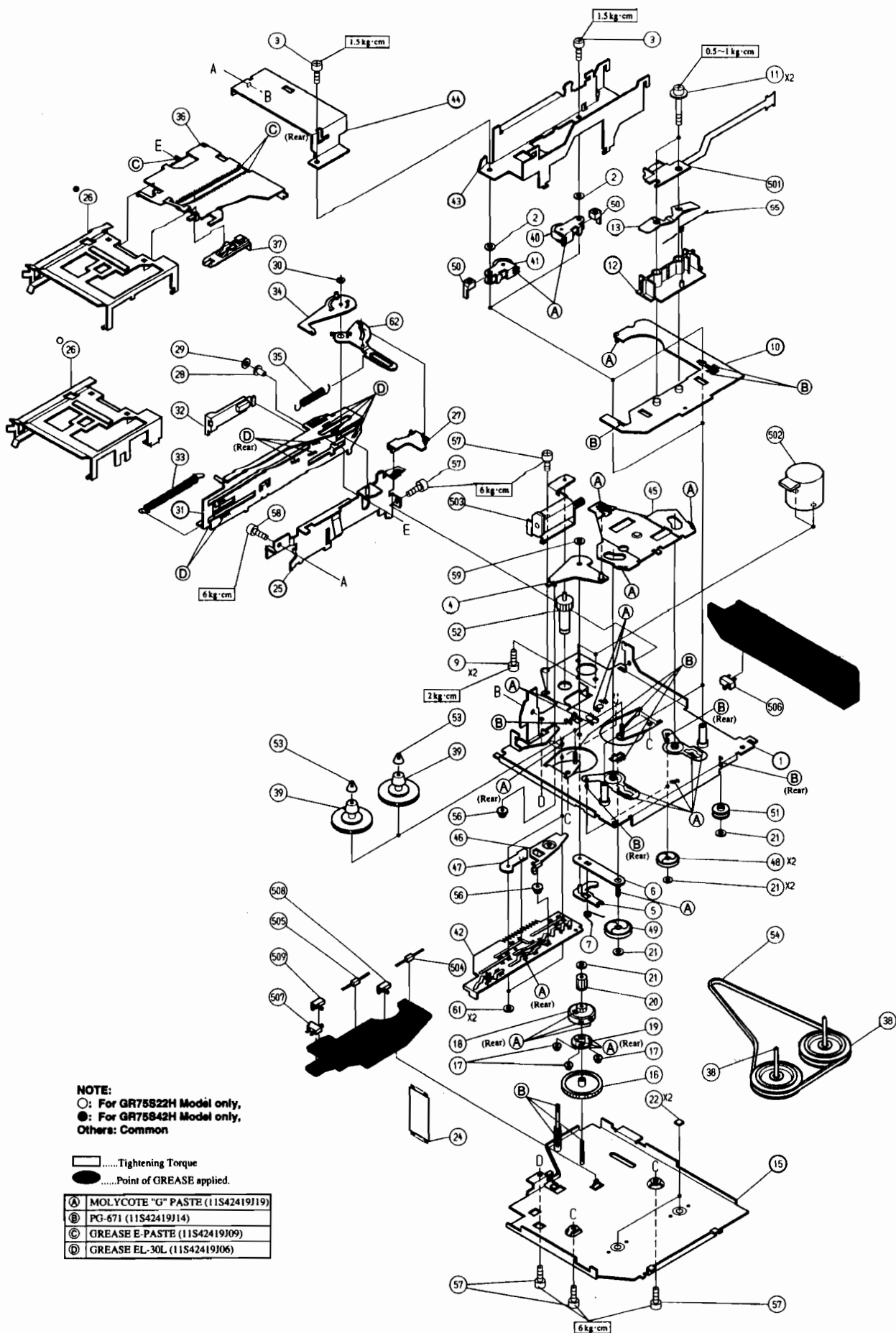
カセットデッキメカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

記号	部品番号	部品名	標準 卸価格	記号	部品番号	部品名	標準 卸価格
2	04B41345P32	Washer, Lock (M3.1)	45	56	43A71774W01	Roller, Mode	50
3	03S43997P63	Screw, Pan (M1.7X4)	45	57	03S44205G30	Screw, Pan (M2.6X4)	45
4	01A90342W02	Assy., Riv. Select Swing	—	58	03A80629W01	Screw, Special (M2.6X6)	50
5	01A71714W01	Assy., Riv. RF Lever A	120	59	04B41345P02	Washer, Lock (M1.7)	45
6	01A90341W02	Assy., Riv. RF Lever B	—	60	04S40075G05	Washer, Polyslider (M2.1)	45
7	41A71781W01	Spring, RF	45	or	04T55449W01	Washer, Polyslider (M2.1)	45
9	03C42723U12	Screw, Cup (M2X2.5)	45	61	04B41345P23	Washer, Lock (M1.7)	45
11	03A80452W02	Screw, F Locks (M2X10.7)	45	62	45A90322W02	Lever, Eject Arm A	—
13	41A31756W01	Spring, Head	60	その他の電気部品			
16	44A71747W01	Gear, Sun	50				
17	44A71748W01	Gear, Planet	45	○ 501	2-B 88T95215W02	Head	1,210
18	44A71749W01	Gear, Inner	—	● 501	2-B 88T75612W03	Head	1,240
19	44A71751W01	Pinion, Eject Base	100	○ 502	2-C 01V94900W74	Assy., Main Motor (13.2V-95mA)	1,460
20	44A71752W01	Pinion, Eject	90	● 502	2-C 01V74500W16	Assy., Main Motor (13.2V-95mA)	1,480
21	04B41345P11	Washer, Lock (M1.2)	45	503	3-C 01V74500W23	Assy., Sub Motor (7V-370mA)	1,500
22	43A41656W01	Spacer, URMW-PE	45	504	3-F 51T63433F03	Sensor, Photo ON2170-R2	310
24	30T65174W07	Wire, Flat 10P	160	505	4-F 51T63433F03	Sensor, Photo ON2170-R2	310
26	07B71778W01	Holder, Cassette	240	506	2-D 40T15222W01	Switch, Detector (PACK IN)	130
27	45A71736W03	Lever, Pack In Switch	—	507	4-F 40T15382W02	Switch, Detector (PAUSE)	130
28	43A71775W01	Roller, Plate Base	50	508	4-E 40T15382W02	Switch, Detector (MODE)	130
29	04B41345P01	Washer, Lock (M1.2)	45	509	4-F 40T15382W02	Switch, Detector (METAL)	130
30	04B41345P15	Washer, Lock (M1.2)	45				
32	44A71753W01	Rack, GR-S	130				
33	41A80634W01	Spring, Rack	80				
34	01A90346W02	Assy., Riv. Eject Arm (B)	—				
35	41B63283F11	Spring	45				
36	01A71712W01	Assy., Riv. Plate Base	260				
37	45B71750W01	Slider	45				
○ 38	01A90350W01	Assy., Flywheel	380				
● 38	01A71783W10	Assy., Flywheel	450				
39	01A71784W01	Reel	370				
40	01B30863W01	Assy., Pinch Roller	240				
41	01B30863W02	Assy., Pinch Roller	240				
42	44B71726W01	Rack, Mode	120				
45	45B90320W02	Lever, Select	—				
46	45A71737W03	Lever, Mode Switch	—				
47	45A71733W03	Lever, Lock	—				
48	44A71741W01	Gear, Take Up	45				
49	44A71742W01	Gear, RF	45				
50	43A71743W01	Guide, Pack	45				
51	49A71744W01	Pulley, Idler	45				
52	44A71746W01	Pinion, Motor	60				
53	49A81855W01	Reel, Cap	45				
54	42A71780W02	Belt	140				
55	41A10387W02	Spring, Pinch Roller	45				

注記：○：GR75S410 モデル専用，●：GR75S42Y モデル専用，その他：共通

Exploded View (Cassette Deck Mechanism)



NOTE:
○: For GR75822H Model only,
●: For GR75842H Model only,
Others: Common

..... Tightening Torque
●..... Point of GREASE applied.

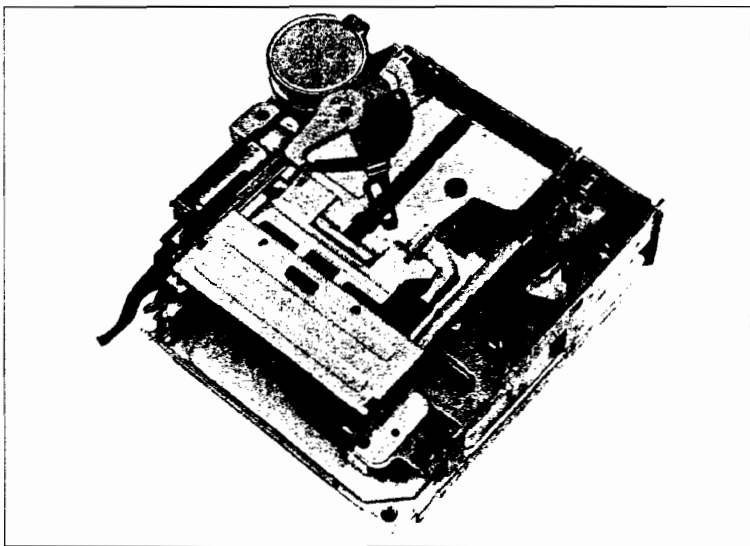
(A)	MOLYCOTE "G" PASTE (11S42419J19)
(B)	PG-671 (11S42419J14)
(C)	GREASE E-PASTE (11S42419J09)
(D)	GREASE EL-30L (11S42419J06)

////ALPINE[®] **SERVICE MANUAL**

Cassette Deck Mechanism

ADDENDUM & REVISED (III)

- This manual is described on GR75S22H/42H only. The GR75S22H/42H is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E26177S01).
- 当マニュアルはGR75S22H/42Hについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E26177S01) を参照願います。



GR-S SERIES

Contents

Cassette Deck Mechanism Assembly Parts List	3 to 4
Exploded View (Cassette Deck Mechanism)	5 to 6

Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual -
GR-S SERIES
(Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE: No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
2		04B41345P32	Washer, Lock (M3.1)	47	3-E	45A71733W03	Lever, Lock
3		03S43997P63	Screw, Pan (M1.7X4)	48	2-E	44A71741W01	Gear, Take Up
4	3-D	01A90342W01	Assy., Riv. Select Swing	49	2-F	44A71742W01	Gear, RF
4	3-D	01A90342W02	Assy., Riv. Select Swing	50		43A71743W01	Guide, Pack
5	2-F	01A90340W01	Assy., Riv. RF Lever A	51	2-E	49A71744W01	Pulley, Idler
5	2-F	01A71714W01	Assy., Riv. RF Lever A	52	3-D	44A71746W01	Pinion, Motor
6	2-E	01A90341W01	Assy., Riv. RF Lever B	53		49A81855W01	Reel, Cap
6	2-E	01A90341W02	Assy., Riv. RF Lever B	54	2-F	42A71780W02	Belt
7	2-F	41A71781W01	Spring, RF	55	2-B	41A10387W02	Spring, Pinch Roller
9	3-D	03C42723U12	Screw, Cup (M2X2.5)	56		43A71774W01	Roller, Mode
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	57		03S44205G30	Screw, Pan (M2.6X4)
13	2-B	41A31758W01	Spring, Head	58	4-D	03A80629W01	Screw, Special (M2.6X6)
16	2-F	44A71747W01	Gear, Sun	59	3-D	04B41345P02	Washer, Lock (M1.7)
17		44A71748W01	Gear, Planet	61	3-F	04B41345P23	Washer, Lock (M1.7)
18	3-F	44A71749W01	Gear, Inner	62	3-B	45A90322W01	Lever, Eject Arm A
19	2-F	44A71751W01	Pinion, Eject Base	62	3-B	45A90322W02	Lever, Eject Arm A
20	2-F	44A71752W01	Pinion, Eject	Miscellaneous			
21		04B41345P11	Washer, Lock (M1.2)	501	2-B	68T75612W03	Head
22	2-G	43A41856W01	Spacer, UHMW-PE	502	2-C	01V74500W18	Assy., Main Motor (13.2V-95mA)
24	3-G	30T65174W07	Wire, Flat 10P	502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
26	5-C	07B40012W01	Holder, Cassette	503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)
26	5-B	07B71778W01	Holder, Cassette	503	3-C	01V11700Y92	Assy., Sub Motor (7V-370mA)
27	3-C	45A71736W02	Lever, Pack In Switch	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
27	3-C	45A71736W03	Lever, Pack In Switch	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
28	4-C	43A71775W01	Roller, Plate Base	506	2-D	40T15222W01	Switch, Detector (PACK IN)
29	4-C	04B41345P01	Washer, Lock (M1.2)	507	4-F	40T15382W02	Switch, Detector (PAUSE)
30	4-B	04B41345P15	Washer, Lock (M1.2)	508	4-E	40T15382W02	Switch, Detector (MODE)
32	4-C	44A71753W01	Rack, GR-S	509	4-F	40T15382W02	Switch, Detector (METAL)
33	4-C	41A80634W01	Spring, Rack				
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)				
34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)				
35	4-C	41B63283F11	Spring				
36	4-A	01A40024W03	Assy., Riv. Plate Base				
36	4-A	01A71712W01	Assy., Riv. Plate Base				
37	4-B	45B71750W01	Slider				
38		01A90350W01	Assy., Flywheel				
39		01A71784W01	Reel				
40	3-B	01B30863W01	Assy., Pinch Roller				
41	3-B	01B30863W02	Assy., Pinch Roller				
42	3-F	44B90318W01	Rack, Mode B				
42	3-F	44B71726W01	Rack, Mode				
45	2-C	45B90320W01	Lever, Select				
45	2-C	45B90320W02	Lever, Select				
46	3-E	45A71737W02	Lever, Mode Switch				
46	3-E	45A71737W03	Lever, Mode Switch				
47	3-E	45A71733W02	Lever, Lock				

NOTE: ○: For GR75S22H Model Only, ●: For GR75S42H Model Only, Others: Common.

カセット・デッキ・メカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

記号	引	部品番号	部品名	標準 卸価格	記号	引	部品番号	部品名	標準 卸価格
2		04B41345P32	Washer, Lock (M3.1)	45	● 47	3-E	45A71733W03	Lever, Lock	—
3		03S43997P63	Screw, Pan (M1.7X4)	45	48	2-E	44A71741W01	Gear, Take Up	45
○ 4	3-D	01A90342W01	Assy., Riv. Select Swing	—	49	2-F	44A71742W01	Gear, RF	45
● 4	3-D	01A90342W02	Assy., Riv. Select Swing	—	50		43A71743W01	Guide, Pack	45
○ 5	2-F	01A90340W01	Assy., Riv. RF Lever A	160	51	2-E	49A71744W01	Pulley, Idler	45
● 5	2-F	01A71714W01	Assy., Riv. RF Lever A	120	52	3-D	44A71746W01	Pinion, Motor	60
○ 6	2-E	01A90341W01	Assy., Riv. RF Lever B	—	53		49A81855W01	Reel, Cap	45
● 6	2-E	01A90341W02	Assy., Riv. RF Lever B	—	54	2-F	42A71780W02	Belt	140
7	2-F	41A71781W01	Spring, RF	45	55	2-B	41A10387W02	Spring, Pinch Roller	45
9	3-D	03C42723U12	Screw, Cup (M2X2.5)	45	56		43A71774W01	Roller, Mode	50
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45	57		03S44205G30	Screw, Pan (M2.6X4)	45
13	2-B	41A31756W01	Spring, Head	60	58	4-D	03A80629W01	Screw, Special (M2.6X5)	50
16	2-F	44A71747W01	Gear, Sun	50	59	3-D	04B41345P02	Washer, Lock (M1.7)	45
17		44A71748W01	Gear, Planet	45	61	3-F	04B41345P23	Washer, Lock (M1.7)	45
18	3-F	44A71749W01	Gear, Inner	—	○ 62	3-B	45A90322W01	Lever, Eject Arm A	—
19	2-F	44A71751W01	Pinion, Eject Base	100	● 62	3-B	45A90322W02	Lever, Eject Arm A	—
20	2-F	44A71752W01	Pinion, Eject	90	その他の電気部品				
21		04B41345P11	Washer, Lock (M1.2)	45	501	2-B	88T75612W03	Head	1,240
22	2-G	43A41656W01	Spacer, UHMW-PE	45	○ 502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)	1,460
24	3-G	30T65174W07	Wire, Flat 10P	160	● 502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)	1,480
○ 26	5-C	07B40012W01	Holder, Cassette	280	○ 503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)	1,440
● 26	5-B	07B71778W01	Holder, Cassette	240	● 503	3-C	01V11700Y82	Assy., Sub Motor (7V-370mA)	1,460
○ 27	3-C	45A71736W02	Lever, Pack In Switch	—	504	3-F	51T63433F03	Sensor, Photo ON2170-R2	310
● 27	3-C	45A71736W03	Lever, Pack In Switch	—	505	4-F	51T63433F03	Sensor, Photo ON2170-R2	310
28	4-C	43A71775W01	Roller, Plate Base	50	506	2-D	40T15222W01	Switch, Detector (PACK IN)	130
29	4-C	04B41345P01	Washer, Lock (M1.2)	45	507	4-F	40T15382W02	Switch, Detector (PAUSE)	130
30	4-B	04B41345P15	Washer, Lock (M1.2)	45	508	4-E	40T15382W02	Switch, Detector (MODE)	130
32	4-C	44A71753W01	Rack, GR-S	130	509	4-F	40T15382W02	Switch, Detector (METAL)	130
33	4-C	41A80634W01	Spring, Rack	80					
○ 34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)	—					
● 34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)	—					
35	4-C	41B63283F11	Spring	45					
○ 36	4-A	01A40024W03	Assy., Riv. Plate Base	240					
● 36	4-A	01A71712W01	Assy., Riv. Plate Base	260					
37	4-B	45B71750W01	Slider	45					
38		01A90350W01	Assy., Flywheel	380					
39		01A71784W01	Reel	370					
40	3-B	01B30863W01	Assy., Pinch Roller	240					
41	3-B	01B30863W02	Assy., Pinch Roller	240					
○ 42	3-F	44B90318W01	Rack, Mode B	160					
● 42	3-F	44B71728W01	Rack, Mode	120					
○ 45	2-C	45B90320W01	Lever, Select	—					
● 45	2-C	45B90320W02	Lever, Select	—					
○ 46	3-E	45A71737W02	Lever, Mode Switch	—					
● 46	3-E	45A71737W03	Lever, Mode Switch	—					
○ 47	3-E	45A71733W02	Lever, Lock	—					

注記：○：GR75S22Hモデル専用， ●：GR75S42Hモデル専用， その他：共通

Exploded View (Cassette Deck Mechanism)

