

CDX-3177

SERVICE MANUAL

E Model



Model Name Using Similar Mechanism	CDX-2180
CD Drive Mechanism Type	MG-363X-121
Optical Pick-up Name	KSS-521A

SPECIFICATIONS

CD player section

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

Tuner section

FM

Tuning range	87.5 - 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	13 dBf
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)

Harmonic distortion at 1 kHz

1.0% (stereo),
0.5% (mono)

Separation	33 dB at 1 kHz
Frequency response	30 - 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 - 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	32 μ V

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 - 8 ohms
Maximum power output	35 W $\times$ 4 (at 4 ohms)

General

Outputs	Line outputs (2) Power antenna relay control/Power amplifier control lead
Tone controls	Bass $\pm$ 10 dB at 100 Hz Treble $\pm$ 10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 $\times$ 58 $\times$ 180 mm (w/h/d)
Mounting dimensions	Approx. 183 $\times$ 53 $\times$ 163 mm (w/h/d)
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

FM/AM COMPACT DISC PLAYER



SONY®

SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts

Example :

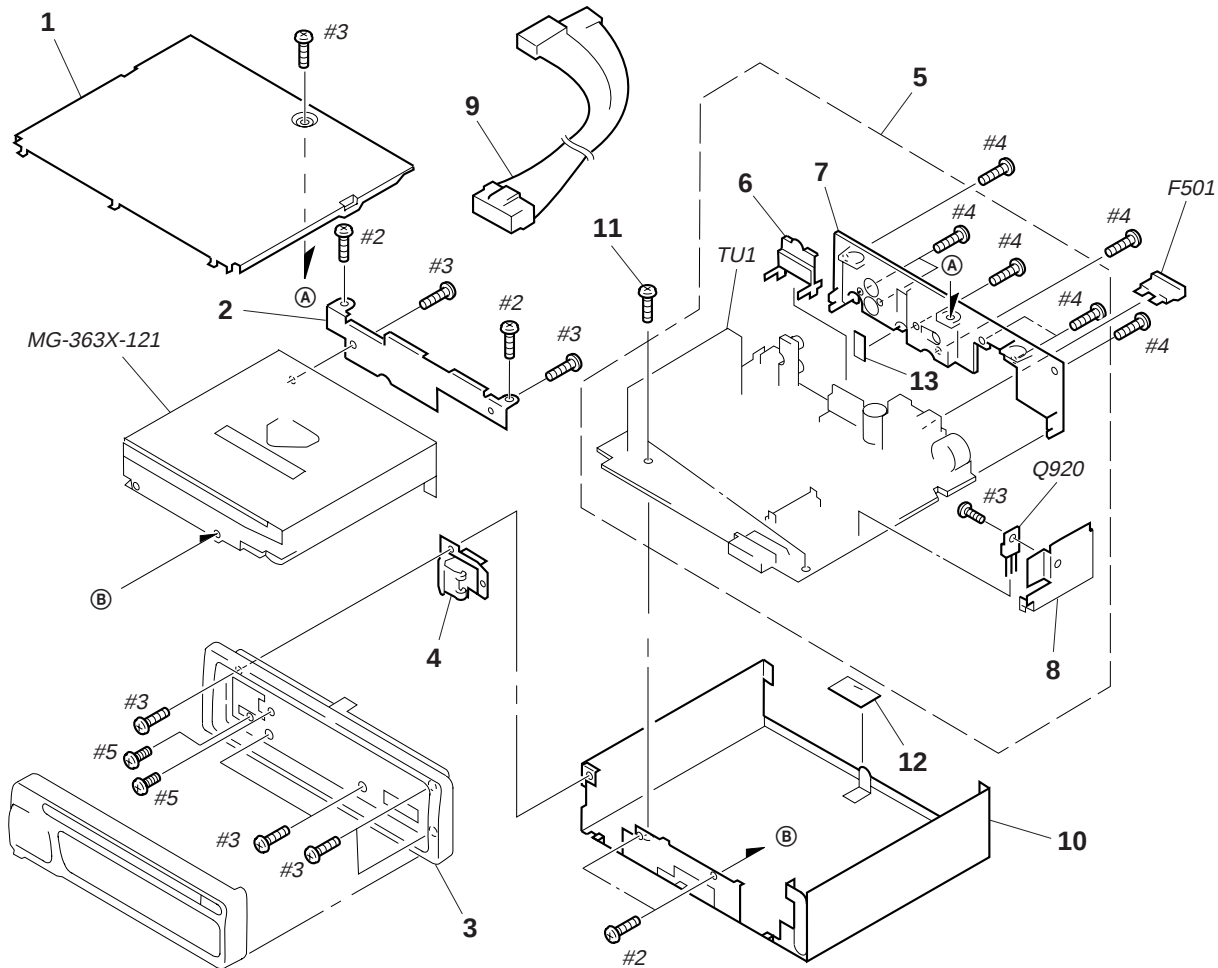
KNOB, BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

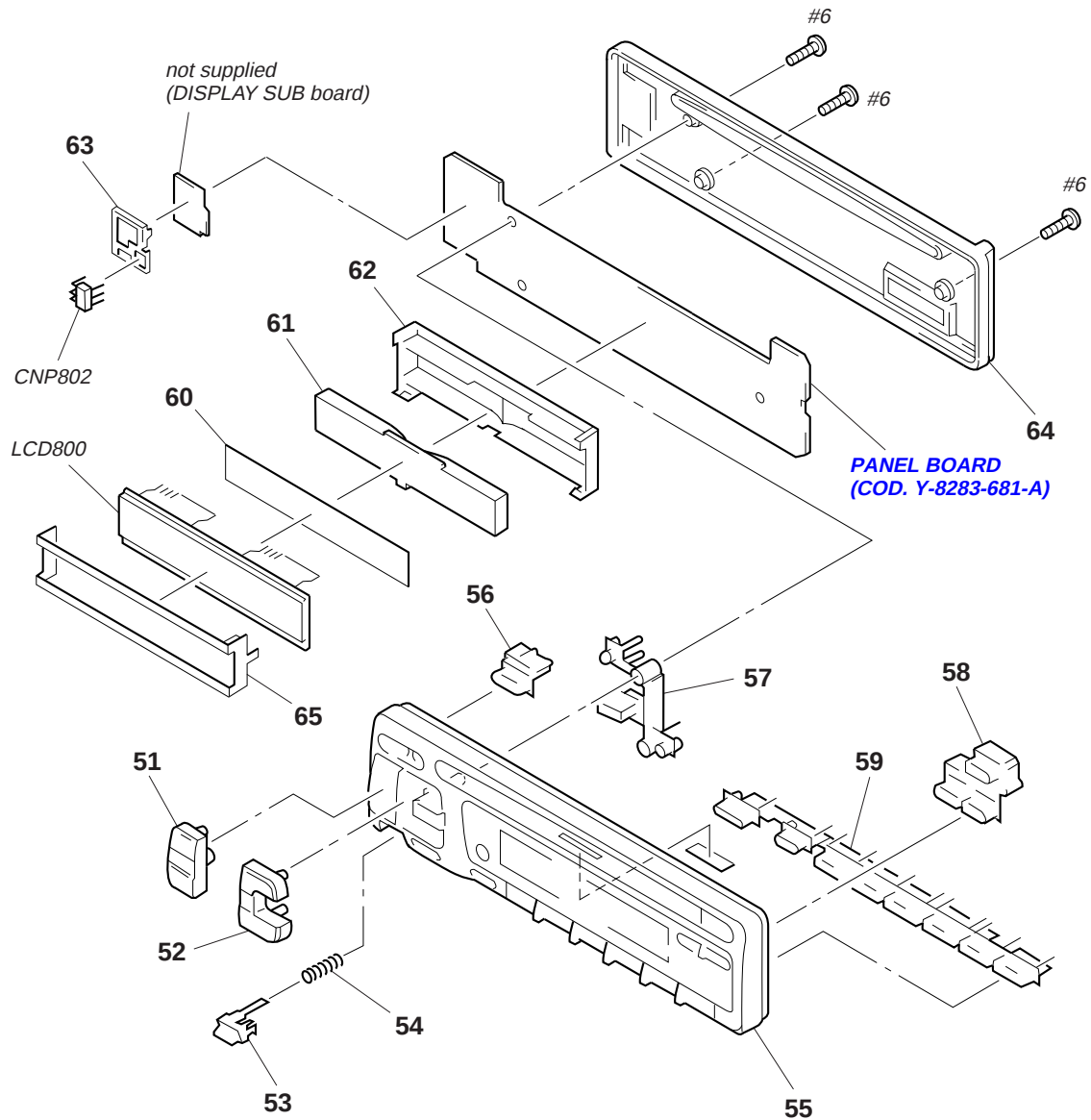
The components identified by mark Δ or dotted line with mark. Δ are critical for safety. Replace only with part number specified.

5-1. CHASSIS SECTION



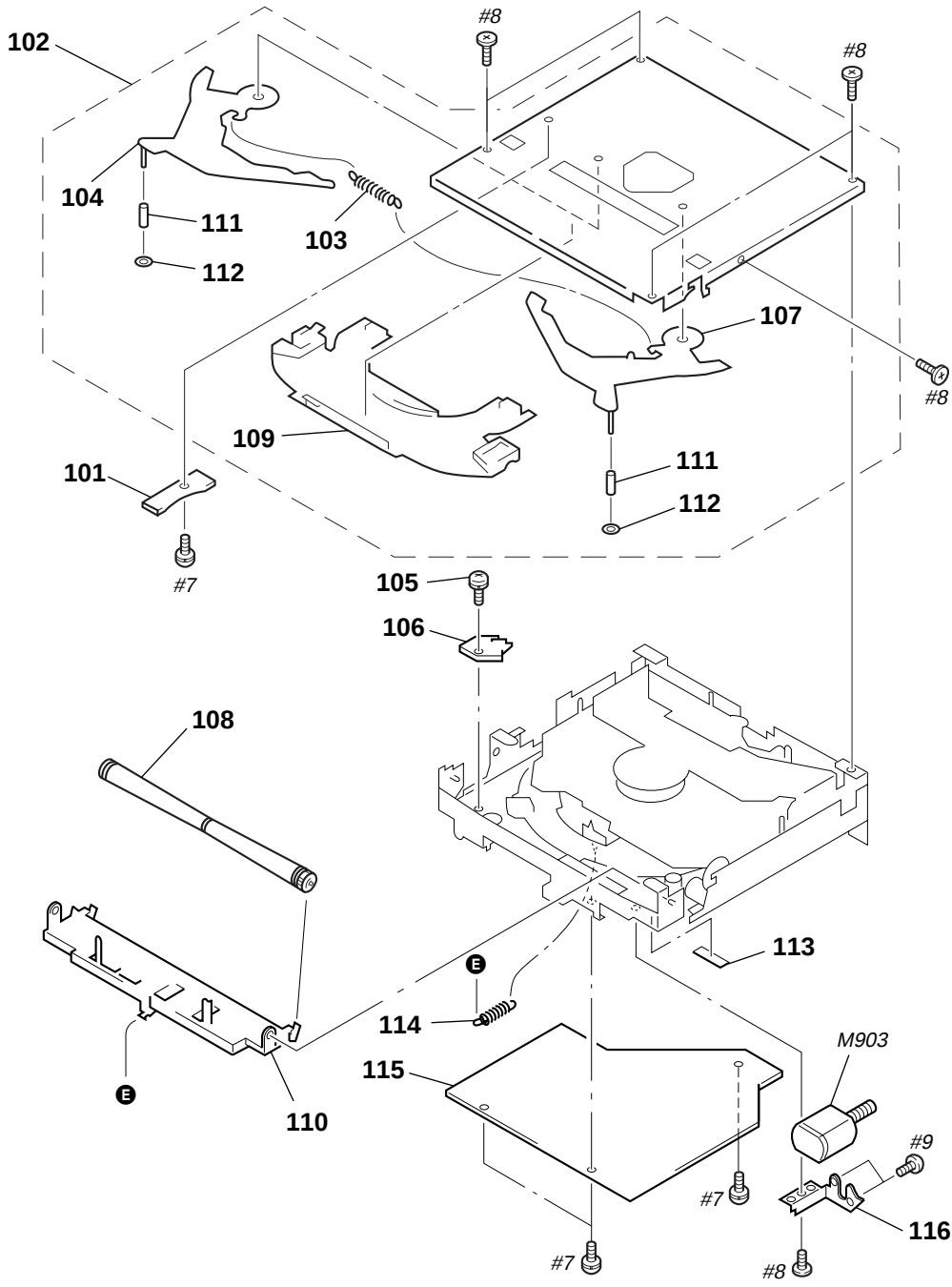
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	X-3379-133-1	COVER ASSY		9	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER)	
* 2	3-009-349-01	BRACKET (M/D)		* 10	3-009-348-01	CHASSIS (MAIN)	
3	X-3373-956-2	PANEL (1) ASSY, SUB		11	3-915-923-01	SCREW, GROUND POINT	
4	X-3368-104-2	LOCK ASSY		* 12	3-013-861-01	SHEET (INSULATING.A)	
				* 13	3-014-040-01	SHEET (HS)	
* 5	Y-8283-355-A	MAIN BOARD, COMPLETE		F501	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
* 6	3-931-260-01	BRACKET (IC)		Q920	8-729-019-00	TRANSISTOR 2SD2394-G	
* 7	3-009-353-11	HEAT SINK		TU1	A-3282-059-A	TUNER UNIT	
* 8	3-920-529-01	BRACKET (REG) (IC)			A-3220-584-A	MECANISMO MG-363X-121/Q1	

5-2. FRONT PANEL SECTION



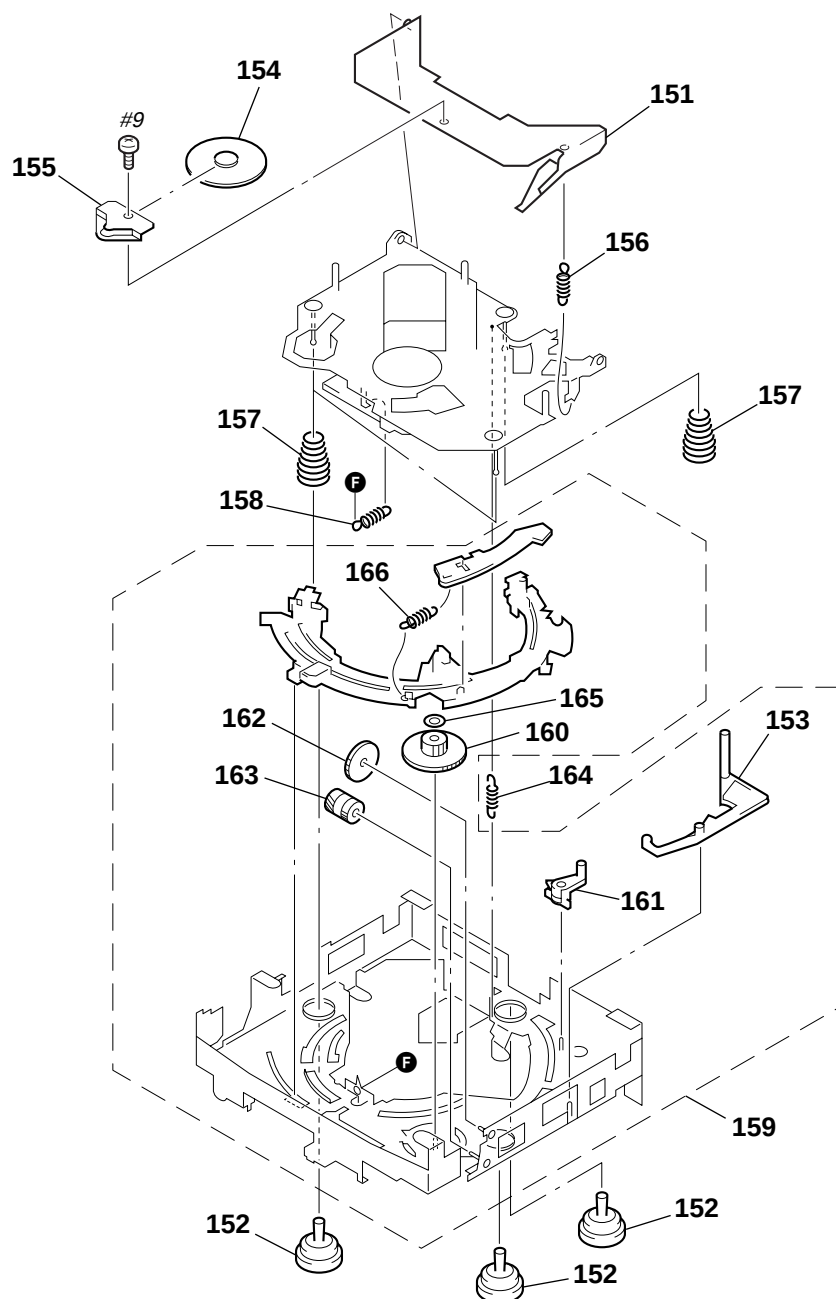
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-009-376-11	BUTTON (SEEK/AMS)		* 60	3-009-341-01	SHEET (LCD)	
52	3-009-332-11	BUTTON (+/-)		* 61	3-009-335-01	PLATE (LCD), LIGHT GUIDE	
53	3-009-329-11	BUTTON (RELEASE)		* 62	3-009-337-01	HOLDER (LCD)	
54	3-013-634-01	SPRING (RELEASE)		* 63	3-009-371-01	BRACKET (PCB)	
55	3-009-928-31	PANEL (S) ASSY, FRONT		64	3-009-355-02	PANEL, FRONT BACK	
56	3-009-334-01	BUTTON (SOURCE)		* 65	3-014-202-03	BRACKET (LCD)	
57	3-009-333-21	BUTTON (DSPL)		CNP802	1-779-129-11	PIN, CONNECTOR 3P	
58	3-009-331-02	BUTTON (EJECT)		LCD800	1-803-140-11	DISPLAY PANEL, LIQUID CRYSTAL	
59	3-009-330-21	BUTTON (1-6)					

5-3. CD MECHANISM SECTION (1) (MG-363X-121)



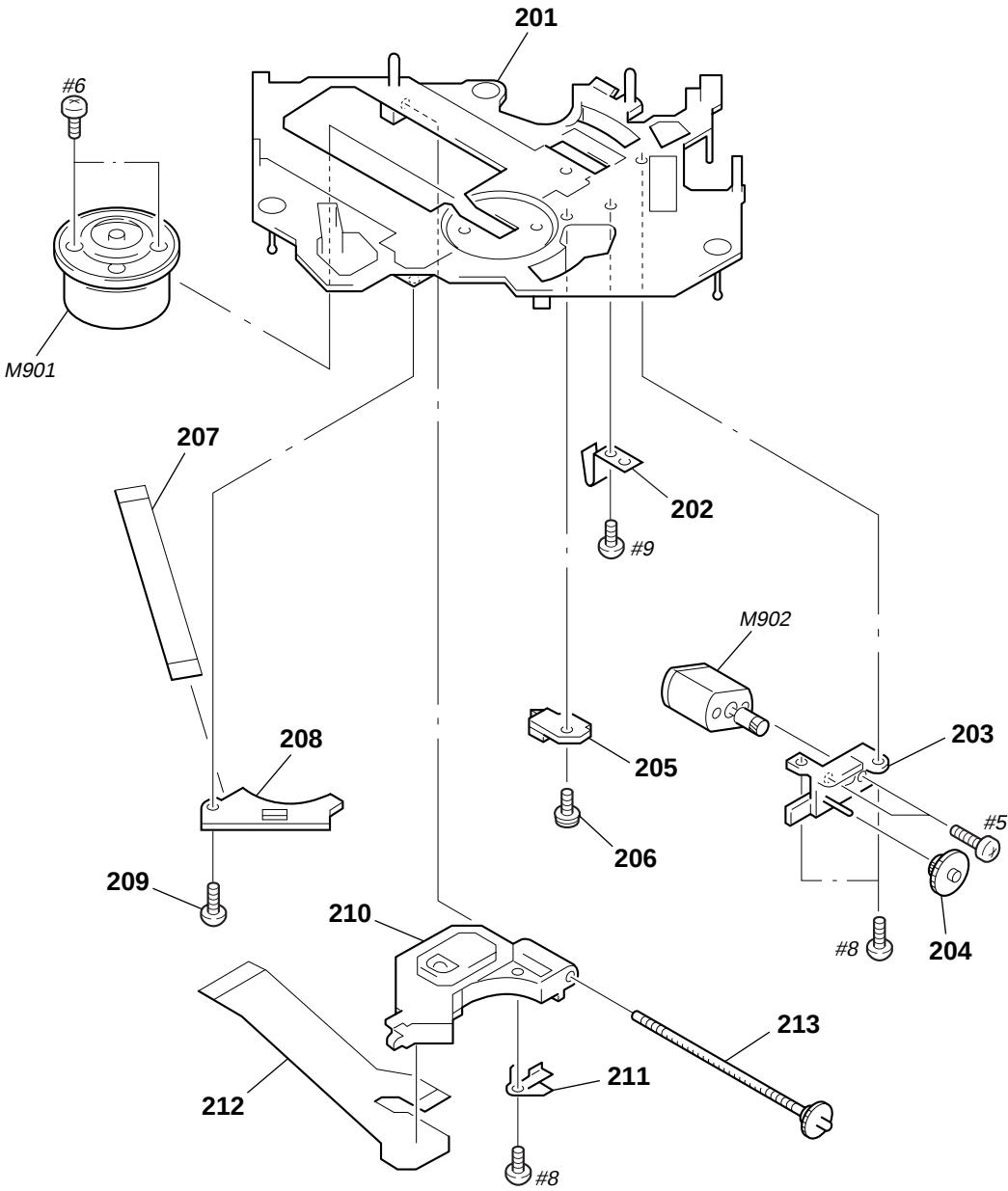
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
* 101	1-659-836-11	DISCIN BOARD		110	3-931-902-04	ARM (ROLLER)	
* 102	A-3291-816-B	CHASSIS (T) SUB ASSY		111	3-936-756-01	ROLLER (D)	
103	3-931-909-01	SPRING (LR), TENSION		112	3-321-393-01	WASHER, STOPPER	
104	X-3371-501-1	LEVER (L) ASSY		* 113	3-939-139-01	SPACER	
105	3-338-737-01	SCREW (2X3), + PS		114	3-931-916-01	SPRING (RA), TENSION	
* 106	1-659-837-11	LOAD BOARD		* 115	A-3309-227-A	SERVO BOARD, COMPLETE	
107	X-3371-502-1	LEVER (R) ASSY		* 116	3-007-530-01	BRACKET (MOTOR)	
108	A-3301-203-A	ROLLER ASSY		M903	A-3291-676-A	MOTOR SUB ASSY, LOADING	
109	3-931-908-01	GUIDE (DISC)					

5-4. CD MECHANISM SECTION (2) (MG-363X-121)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-931-893-01	ARM, CHUCKING		160	3-014-727-01	WHEEL (LW), WORM	
152	3-931-897-01	DAMPER (T)		161	3-931-881-01	LEVER (LOCK)	
153	3-931-879-02	LEVER (D)		162	3-931-882-02	GEAR (MDL)	
* 154	3-913-404-11	RETAINER (DISC)		163	3-007-537-11	WHEEL (U), WORM	
155	3-931-894-01	BRACKET (CP)		164	3-032-484-01	SPRING (KR1), TENSION	
156	3-931-895-01	SPRING (CH), TENSION		165	3-018-272-01	WASHER	
157	3-931-898-01	SPRING (FL), COMPRESSION		166	3-931-883-01	SPRING (TR), TENSION	
158	3-032-483-02	SPRING (KF1), TENSION					
* 159	A-3277-802-C	CHASSIS (M) COMPLETE ASSY					

5-5. CD MECHANISM SECTION (3) (MG-363X-121)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 201	X-3374-022-1	CHASSIS (OP) (O/S) ASSY		209	3-909-607-01	SCREW	
202	3-931-829-01	SPRING (SL), PLATE		$\triangle$ 210	8-820-010-06	PICK-UP, OPTICAL KSS-521A/K1RP	
203	X-3371-504-1	BASE (DRIVING) ASSY		211	3-931-834-01	SPRING (FEED), PLATE	
204	3-931-832-01	GEAR (SL MIDWAY)		212	1-659-881-11	PICK-UP FLEXIBLE BOARD	
* 205	1-659-835-12	LIMIT BOARD		213	A-3291-669-A	SHAFT (FEED) ASSY	
206	3-338-737-01	SCREW (2X3), + PS		M901	X-3371-664-2	MOTOR ASSY (SPINDLE)	
207	1-659-880-11	MOTOR FLEXIBLE BOARD		M902	A-3291-674-A	MOTOR ASSY, SLED	
* 208	1-659-834-11	SUB BOARD					

SECTION 6 ELECTRICAL PARTS LIST

DISC IN SW

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-659-836-11	DISC IN SW BOARD *****		D859	8-719-064-19	LED SLR-342PG (5) (GREEN)	
		< SWITCH >		D860	8-719-052-61	LED SLR-342PGT31 (SEL) (GREEN)	
SW1	1-572-288-11	SWITCH, PUSH (DISC IN)		D861	8-719-052-61	LED SLR-342PGT31 (MODE) (GREEN)	
SW2	1-572-288-11	SWITCH, PUSH (SELF)		D862	8-719-052-61	LED SLR-342PGT31 (SOURCE) (GREEN)	
*****				D863	8-719-052-61	LED SLR-342PGT31 (+) (GREEN)	
	Y-8283-681-A	DISPLAY BOARD *****		D864	8-719-052-61	LED SLR-342PGT31 (MUTE) (GREEN)	
*	3-009-335-01	PLATE (LCD), LIGHT GUIDE		D865	8-719-052-61	LED SLR-342PGT31 (-) (GREEN)	
*	3-009-337-01	HOLDER (LCD)		D865	8-719-052-61	LED SLR-342PGT31 (GREEN)	
*	3-009-341-01	SHEET (LCD)		D867	8-719-052-61	LED SLR-342PGT31 (GREEN)	
*	3-009-371-01	BRACKET (PCB)		D868	8-719-052-61	LED SLR-342PGT31 (DSPL) (GREEN)	
*	3-014-202-03	BRACKET (LCD)		D869	8-719-052-61	LED SLR-342PGT31 (OFF) (GREEN)	
		< CAPACITOR >		D870	8-719-052-61	LED SLR-342PGT31 (1/INTRO) (GREEN)	
C851	1-163-137-00	CERAMIC CHIP 680PF 5% 50V		D872	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C852	1-163-038-91	CERAMIC CHIP 0.1uF 25V		D873	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C853	1-163-117-00	CERAMIC CHIP 100PF 5% 50V		D874	8-719-056-82	DIODE UDZ-TE-17-6.2B	
		< CONNECTOR >		D875	8-719-056-82	DIODE UDZ-TE-17-6.2B	
CNP801	1-764-423-11	PIN, CONNECTOR 12P				< IC >	
* CNP802	1-779-129-11	PIN, CONNECTOR 3P		IC801	8-759-369-90	IC LC75822ED	
		< DIODE >				< JUMPER RESISTOR >	
D851	8-719-056-80	DIODE UDZ-TE-17-5.1B		JR802	1-216-295-00	CONDUCTOR, CHIP (2012)	
D852	8-719-052-61	LED SLR-342PGT31 (SENS) (GREEN)		JR804	1-216-296-00	CONDUCTOR, CHIP (3216)	
D853	8-719-052-61	LED SLR-342PGT31 (Δ) (GREEN)		JR805	1-216-296-00	CONDUCTOR, CHIP (3216)	
D854	8-719-052-61	LED SLR-342PGT31 (A.MEM) (GREEN)		JR806	1-216-296-00	CONDUCTOR, CHIP (3216)	
D855	8-719-052-61	LED SLR-342PGT31 (6) (GREEN)		JR807	1-216-296-00	CONDUCTOR, CHIP (3216)	
D856	8-719-052-61	LED SLR-342PGT31 (2/REPEAT) (GREEN)		JR808	1-216-296-00	CONDUCTOR, CHIP (3216)	
D857	8-719-052-61	LED SLR-342PGT31 (3/SHUF) (GREEN)		JR809	1-216-296-00	CONDUCTOR, CHIP (3216)	
D858	8-719-052-61	LED SLR-342PGT31 (4) (GREEN)		JR810	1-216-296-00	CONDUCTOR, CHIP (3216)	
				JR811	1-216-296-00	CONDUCTOR, CHIP (3216)	
				JR812	1-216-296-00	CONDUCTOR, CHIP (3216)	

DISPLAY

DISPLAY SUB

LIMIT SW

LOAD SW

Ref. No.	Part No.	Description	Remark
JR816	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR817	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR818	1-216-295-00	CONDUCTOR, CHIP (2012)	
< LIQUID CRYSTAL DISPLAY >			
LCD800 1-801-674-11 DISPLAY PANEL, LIQUID CRYSTAL			
< PILOT LAMP >			
PL801	1-517-677-11	LAMP, PILOT	
PL802	1-517-677-11	LAMP, PILOT	
< RESISTOR >			
R841	1-216-193-11	METAL GLAZE 620 5% 1/8W	
R842	1-216-193-11	METAL GLAZE 620 5% 1/8W	
R851	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R852	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R854	1-247-808-11	CARBON 110 5% 1/4W	
R855	1-247-808-11	CARBON 110 5% 1/4W	
R856	1-247-818-11	CARBON 300 5% 1/4W	
R857	1-247-818-11	CARBON 300 5% 1/4W	
R859	1-247-818-11	CARBON 300 5% 1/4W	
R860	1-247-822-11	CARBON 430 5% 1/4W	
R861	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R862	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R863	1-247-843-11	CARBON 3.3K 5% 1/4W	
R864	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R865	1-249-429-11	CARBON 10K 5% 1/4W	
R871	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R872	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R873	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R874	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R875	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R876	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R877	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R878	1-247-843-11	CARBON 3.3K 5% 1/4W	
R879	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R880	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R881	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R882	1-247-808-11	CARBON 110 5% 1/4W	
< SWITCH >			
S801	1-572-704-31	SWITCH, KEY BOARD (▲)	
S802	1-572-704-31	SWITCH, KEY BOARD (A.MEM)	
S803	1-572-704-31	SWITCH, KEY BOARD (SENS)	
S804	1-572-704-31	SWITCH, KEY BOARD (4)	
S805	1-572-704-31	SWITCH, KEY BOARD (5)	
S806	1-572-704-31	SWITCH, KEY BOARD (6)	
S808	1-572-704-31	SWITCH, KEY BOARD (SOURCE)	

Ref. No.	Part No.	Description	Remark
S809	1-572-704-31	SWITCH, KEY BOARD (MODE)	
S811	1-572-704-31	SWITCH, KEY BOARD (- I◀◀ ◀◀ (SEEK/AMS))	
S812	1-572-704-31	SWITCH, KEY BOARD (SEL)	
S813	1-572-704-31	SWITCH, KEY BOARD (+)	
S815	1-572-704-31	SWITCH, KEY BOARD (OFF)	
S816	1-572-704-31	SWITCH, KEY BOARD (MUTE)	
S817	1-572-704-31	SWITCH, KEY BOARD (-)	
S818	1-572-704-31	SWITCH, KEY BOARD (DSPL)	
S819	1-572-704-31	SWITCH, KEY BOARD (1/INTRO)	
S820	1-572-704-31	SWITCH, KEY BOARD (2/REPEAT)	
S821	1-572-704-31	SWITCH, KEY BOARD (3/SHUF)	
S810	1-572-704-31	SWITCH, KEY BOARD	

DISPLAY SUB BOARD			

< DIODE >			
D866	8-719-052-61	LED SLR-342PGT31 (- I◀◀ ◀◀ (SEEK/AMS))	(GREEN)
D866	8-719-059-92	LED SLR-342YYT31 (- I◀◀ ◀◀ (SEEK/AMS))	(AMBER)
D867	8-719-052-61	LED SLR-342PGT31 (+ ▶▶▶ ▶▶ (SEEK/AMS))	(GREEN)
D867	8-719-059-92	LED SLR-342YYT31 (+ ▶▶▶ ▶▶ (SEEK/AMS))	(AMBER)
< SWITCH >			
S810	1-572-704-31	SWITCH, KEY BOARD (+ ▶▶▶ ▶▶ (SEEK/AMS))	

*	1-659-835-12	LIMIT SW BOARD	

< SWITCH >			
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	

*	1-659-837-11	LOAD SW BOARD	

< SWITCH >			
SW4	1-572-288-11	SWITCH, PUSH (DOWN)	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
*	Y-8283-355-A	MAIN BOARD, COMPLETE					C224	1-124-234-00	ELECT	22uF	20%	16V	
							C225	1-124-234-00	ELECT	22uF	20%	16V	
		*****					C226	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
							C227	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
							C228	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
*	3-009-353-11	HEAT SINK					C401	1-126-768-91	ELECT	2200uF	20%	16V	
*	3-014-040-01	SHEET (HS)					C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
*	3-920-529-01	BRACKET (REG) (IC)					C404	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
*	3-931-260-01	BRACKET (IC)					C405	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
	7-685-792-09	SCREW +PTT 2.6X6 (S)					C406	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
	7-685-793-09	SCREW +PTT 2.6X8 (S)					C407	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
		< CAPACITOR >					C408	1-124-242-00	ELECT	33uF	20%	25V	
C101	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V		C409	1-124-255-61	ELECT	1.0uF	20%	50V	
C102	1-164-346-11	CERAMIC CHIP	1uF		16V		C416	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C103	1-164-346-11	CERAMIC CHIP	1uF		16V		C418	1-126-162-11	ELECT	3.3uF	20%	50V	
C104	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V								
C105	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		C419	1-126-176-61	ELECT	220uF	20%	10V	
							C420	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C106	1-126-157-11	ELECT	10uF	20%	16V		C434	1-164-346-11	CERAMIC CHIP	1uF		16V	
C107	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V		C435	1-126-572-61	ELECT	4.7uF	20%	35V	
C108	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		C601	1-163-037-91	CERAMIC CHIP	0.022uF	10%	25V	
C109	1-126-157-11	ELECT	10uF	20%	16V		C616	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C110	1-126-157-11	ELECT	10uF	20%	16V		C617	1-124-455-00	ELECT	100uF	20%	16V	
							C619	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C111	1-126-157-11	ELECT	10uF	20%	16V		C620	1-124-257-00	ELECT	2.2uF	20%	50V	
C112	1-126-157-11	ELECT	10uF	20%	16V		C621	1-163-013-91	CERAMIC CHIP	0.0022uF	10%	25V	
C113	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		C622	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V								
C115	1-164-005-11	CERAMIC CHIP	0.47uF		25V		C624	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
							C626	1-126-233-11	ELECT	22uF	20%	50V	
C122	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		C627	1-104-664-11	ELECT	47uF	20%	16V	
C124	1-124-234-00	ELECT	22uF	20%	16V		C628	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C125	1-124-234-00	ELECT	22uF	20%	16V		C629	1-104-664-11	ELECT	47uF	20%	16V	
C126	1-163-235-11	CERAMIC CHIP	22PF	5%	50V								
C127	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V		C636	1-163-023-91	CERAMIC CHIP	0.015uF	10%	50V	
							C637	1-163-023-91	CERAMIC CHIP	0.015uF	10%	50V	
C133	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V								
C201	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V		C700	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C202	1-164-346-11	CERAMIC CHIP	1uF		16V								
C203	1-164-346-11	CERAMIC CHIP	1uF		16V		C701	1-124-584-00	ELECT	100uF	20%	10V	
C204	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		C704	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
							C705	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C205	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V		C706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C206	1-126-157-11	ELECT	10uF	20%	16V		C707	1-128-057-11	ELECT	330uF	20%	6.3V	
C207	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V								
C208	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		C710	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C209	1-126-157-11	ELECT	10uF	20%	16V		C711	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
							C712	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C210	1-126-157-11	ELECT	10uF	20%	16V		C713	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C211	1-126-157-11	ELECT	10uF	20%	16V		C714	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C212	1-126-157-11	ELECT	10uF	20%	16V								
C213/233	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		C715	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C214	1-164-005-11	CERAMIC CHIP	0.47uF		25V		C716	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
							C720	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C215	1-164-005-11	CERAMIC CHIP	0.47uF		25V		C721	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C222	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V								

MAIN

Ref. No.	Part No.	Description	Remark
C722	1-163-001-11	CERAMIC CHIP 220PF 10% 50V	
C723	1-164-232-11	CERAMIC CHIP 0.01uF 10% 100V	
C725	1-162-004-91	CERAMIC CHIP 0.1uF 10% 25V	
C725	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C727	1-164-232-11	CERAMIC CHIP 0.01uF 10% 100V	
C801	1-162-282-31	CERAMIC 100PF 10% 50V	
C802	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C803	1-162-282-31	CERAMIC 100PF 10% 50V	
C804	1-163-234-11	CERAMIC CHIP 20PF 5% 50V	
C805	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C806	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C807	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C808	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C818	1-162-286-21	CERAMIC 220PF 10% 50V	
C821	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C903	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C907	1-110-654-12	DOUBLE LAYERS 0.047F 5.5V	
C912	1-126-233-11	ELECT 22uF 20% 50V	
C913	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C914	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C916	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C917	1-124-465-00	ELECT 0.47uF 20% 50V	
C918	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C922	1-126-162-11	ELECT 3.3uF 20% 50V	
C923	1-124-257-00	ELECT 2.2uF 20% 50V	
C924	1-216-233-11	ELECT 22uF 20% 50V	
< JACK >			
CNJ600	1-779-005-11	JACK (ANTENNA)	
< CONNECTOR >			
CNP501	1-774-701-11	PIN, CONNECTOR 16P	
CNP700	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P	
CNP800	1-764-422-11	PLUG, CONNECTOR 12P	
< DISCHARGE GAP >			
CP601	1-519-504-11	GAP, DISCHARGE	
< DIODE >			
D400	8-719-983-15	DIODE MTZJ-T-77--3.9A	
D401	8-719-986-74	DIODE RB411QT-77	
D411	8-719-991-33	DIODE 1SS133T-77	
D638	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	
D804	8-719-991-33	DIODE 1SS133T-77	

Ref. No.	Part No.	Description	Remark
D805	8-719-991-33	DIODE 1SS133T-77	
D810	8-719-991-33	DIODE 1SS133T-77	
D811	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D812	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D813	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D814	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D815	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D816	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D817	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D818	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D901	8-719-923-92	DIODE MTZJ-T-77-16B	
D903	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D905	8-719-923-93	DIODE MTZJ-T-77-16C	
D908	8-719-991-33	DIODE 1SS133T-77	
D909	8-719-048-54	DIODE MTZ-T-77-10A	
D911	8-719-923-38	DIODE MTZJ-T-77-5.6B	
D912	8-719-923-42	DIODE MTZJ-T-77-6.2B	
D913	8-719-049-38	DIODE 1N5404TU	
D914	8-719-991-33	DIODE 1SS133T-77	
D915	8-719-923-45	DIODE MTZJ-T-77-6.8A	
D918	8-719-923-67	DIODE MTZJ-T-77-9.1B	
D919	8-719-210-03	DIODE 11ES2-TA1B	
< FUSE >			
F501	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
< IC >			
IC501	8-759-578-83	IC HA13158A	
IC400	8-752-075-48	IC CXA1946AQ-T6	
IC700	8-759-364-35	IC SM5877AM-E2	
IC800	8-759-454-66	IC uPD17017GF-B28-3B9	
IC900	8-759-095-61	IC S-81250PG-Z	
< JUMPER RESISTOR >			
JR2	1-216-296-00	CONDUCTOR, CHIP	
JR11	1-216-295-00	CONDUCTOR, CHIP	
JR140	1-216-295-00	CONDUCTOR, CHIP	
JR141	1-216-295-00	CONDUCTOR, CHIP	
JR143	1-216-295-00	CONDUCTOR, CHIP	
JR17	1-216-295-00	CONDUCTOR, CHIP	
JR144	1-216-295-00	CONDUCTOR, CHIP	
< COIL >			
L400	1-410-513-11	INDUCTOR 22uH	
L600	1-410-513-11	INDUCTOR 22uH	
L601	1-410-521-11	INDUCTOR 100uH	
L700	1-410-521-11	INDUCTOR 100uH	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L800	1-410-513-11	INDUCTOR 22uH		R113	1-247-857-91	CARBON	12K 5% 1/4W
L801	1-410-513-11	INDUCTOR 22uH		R119	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
L901	1-411-823-21	COIL, CHOKE (TROIDAL)		R120	1-216-077-00	METAL CHIP	15K 5% 1/10W
		< JACK >		R121	1-216-053-91	METAL CHIP	1.5K 5% 1/10W
				R122	1-216-073-00	METAL CHIP	10K 5% 1/10W
PJ400	1-764-697-11	JACK, PIN 4P (LINE OUT REAR)		R123	1-216-079-00	METAL CHIP	18K 5% 1/10W
		< TRANSISTOR >		R124	1-216-085-00	METAL CHIP	33K 5% 1/10W
				R131	1-216-061-91	METAL CHIP	3.3K 5% 1/10W
				R201	1-216-049-11	METAL GLAZE	1K 5% 1/10W
Q404	8-729-027-31	TRANSISTOR DTA124EKA-T146		R202	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q405	8-729-027-52	TRANSISTOR DTC124EKA-T146		R203	1-249-425-11	CARBON	4.7K 5% 1/4W
Q604	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R204	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
Q605	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R205	1-249-425-11	CARBON	4.7K 5% 1/4W
				R206	1-216-041-00	METAL CHIP	470 5% 1/10W
Q607	8-729-902-03	TRANSISTOR 2SA1036K-T-146-R		R207	1-216-041-00	METAL CHIP	470 5% 1/10W
Q608	8-729-027-43	TRANSISTOR DTC114EKA-T146		R208	1-216-075-00	METAL CHIP	12K 5% 1/10W
Q609	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R209	1-216-075-00	METAL CHIP	12K 5% 1/10W
Q804	8-729-027-31	TRANSISTOR DTA124EKA-T146		R210	1-216-129-00	METAL CHIP	2.2M 5% 1/10W
Q901	8-729-822-85	TRANSISTOR 2SB1202FAST-TL		R211	1-216-129-00	METAL CHIP	2.2M 5% 1/10W
Q903	8-729-027-43	TRANSISTOR DTC114EKA-T146		R212	1-247-857-91	CARBON	12K 5% 1/4W
Q904	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R213	1-247-857-91	CARBON	12K 5% 1/4W
Q905	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R219	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
Q907	8-729-027-31	TRANSISTOR DTA124EKA-T146		R220	1-216-077-00	METAL CHIP	15K 5% 1/10W
Q911	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R221	1-216-053-91	METAL CHIP	1.5K 5% 1/10W
Q912	8-729-140-73	TRANSISTOR 2SB798-T1		R222	1-216-073-00	METAL CHIP	10K 5% 1/10W
Q913	8-729-027-43	TRANSISTOR DTC114EKA-T146		R223	1-216-079-00	METAL CHIP	18K 5% 1/10W
Q914	8-729-027-43	TRANSISTOR DTC114EKA-T146		R224	1-216-085-00	METAL CHIP	33K 5% 1/10W
Q915	8-729-015-11	TRANSISTOR 2SD1802FAST-TL		R231	1-216-061-91	METAL CHIP	3.3K 5% 1/10W
Q920	8-729-019-00	TRANSISTOR 2SD2394-G		R232	1-216-085-00	METAL CHIP	33K 5% 1/10W
Q922	8-729-027-52	TRANSISTOR DTC124EKA-T146		R401	1-247-895-00	CARBON	470K 5% 1/4W
Q929	8-729-015-11	TRANSISTOR 2SD1802FAST-TL		R411	1-216-049-11	METAL GLAZE	1K 5% 1/10W
		< RESISTOR >		R416	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R101	1-216-049-11	METAL GLAZE	1K 5% 1/10W	R601	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R102	1-216-073-00	METAL CHIP	10K 5% 1/10W	R603	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R103	1-249-425-11	CARBON	4.7K 5% 1/4W	R620	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R104	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R626	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R105	1-247-847-11	METAL CHIP	4.7K 5% 1/10W	R627	1-216-049-11	METAL GLAZE	1K 5% 1/10W
R106	1-216-041-00	METAL CHIP	470 5% 1/10W	R628	1-216-073-00	METAL CHIP	10K 5% 1/10W
R107	1-216-041-00	METAL CHIP	470 5% 1/10W	R629	1-216-049-11	METAL GLAZE	1K 5% 1/10W
R108	1-216-075-00	METAL CHIP	12K 5% 1/10W	R630	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R109	1-216-075-00	METAL CHIP	12K 5% 1/10W	R631	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R110	1-216-129-00	METAL CHIP	2.2M 5% 1/10W	R633	1-216-081-00	METAL CHIP	22K 5% 1/10W
R111	1-216-129-00	METAL CHIP	2.2M 5% 1/10W	R634	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W
R112	1-247-857-91	CARBON	12K 5% 1/4W	R643	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R646	1-216-091-91	METAL CHIP	56K 5% 1/10W
				R640	1-216-069-00	METAL CHIP	6.8K 5% 1/10W

MAIN

SERVO

Ref. No.	Part No.	Description	Remark		
R641	1-216-073-00	METAL CHIP	10K	5%	1/10W
R642	1-216-047-00	METAL GLAZE	820	5%	1/10W
R700	1-216-001-00	METAL CHIP	10	5%	1/10W
R704	1-247-807-11	CARBON	100	5%	1/4W
R705	1-249-401-11	CARBON	47	5%	1/4W
R706	1-216-037-00	METAL CHIP	330	5%	1/10W
R708	1-216-027-00	METAL CHIP	120	5%	1/10W
R711	1-247-807-11	CARBON	100	5%	1/4W
R712	1-247-807-11	CARBON	100	5%	1/4W
R713	1-249-409-11	CARBON	220	5%	1/4W
R802	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R804	1-249-429-11	CARBON	10K	5%	1/4W
R807	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-216-073-00	METAL CHIP	10K	5%	1/10W
R810	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R812	1-216-073-00	METAL CHIP	10K	5%	1/10W
R813	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-216-073-00	METAL CHIP	10K	5%	1/10W
R818	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R819	1-249-418-11	CARBON	1.2K	5%	1/4W
R820	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R821	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R822	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R823	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R824	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R825	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R826	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R827	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R829	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R830	1-216-075-00	METAL CHIP	12K	5%	1/10W
R833	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R836	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R837	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R838	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R839	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R840	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP,UK)
R902	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R903/R904	1-249-421-11	CARBON	2.2K	5%	1/4W
R905	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R909	1-216-079-00	METAL CHIP	18K	5%	1/10W
R910	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R911	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R912	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R921	1-247-887-00	CARBON	220K	5%	1/4W
R922	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R923	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R924	1-216-073-00	METAL CHIP	10K	5%	1/10W
R925	1-249-413-11	CARBON	470	5%	1/4W
R927	1-247-827-91	CARBON	680	5%	1/4W
R928	1-247-827-91	CARBON	680	5%	1/4W
R929	1-216-033-00	METAL CHIP	220	5%	1/10W
R930	1-249-435-11	CARBON	33K	5%	1/4W
R931	1-247-790-11	CARBON	20	5%	1/4W
R932	1-216-073-00	METAL CHIP	10K	5%	1/10W
R933	1-216-025-00	METAL GLAZE	100	5%	1/10W
R934	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R938	1-216-073-00	METAL CHIP	10K	5%	1/10W
R950	1-247-813-91	CARBON	180	5%	1/4W
R951	1-247-813-91	CARBON	180	5%	1/4W
< SWITCH >					
S900	1-762-638-131	SWITCH, TACTILE (RESET)			
< THERMISTOR >					
TH900	1-809-842-21	THERMISTOR PTH			
< TUNER >					
TU1	1-693-373-11	TUNER UNIT			
< VIBRATOR >					
X700	1-767-453-21	VIBRATOR, CRYSTAL (16.934MHz)			
X800	1-760-223-11	VIBRATOR, CRYSTAL (4.5MHz)			

*	A-3309-227-A	SERVO BOARD, COMPLETE			

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C18	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR15	1-216-296-00	CONDUCTOR, CHIP	(3216)
C19	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V	JR16	1-216-296-00	CONDUCTOR, CHIP	(3216)
C20	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V	JR17	1-216-296-00	CONDUCTOR, CHIP	(3216)
C21	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	JR18	1-216-296-00	CONDUCTOR, CHIP	(3216)
C22	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	JR19	1-216-296-00	CONDUCTOR, CHIP	(3216)
C23	1-135-259-11	TANTAL. CHIP	10uF 20% 6.3V	JR20	1-216-296-00	CONDUCTOR, CHIP	(3216)
C24	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	JR21	1-216-296-00	CONDUCTOR, CHIP	(3216)
C25	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V	JR22	1-216-296-00	CONDUCTOR, CHIP	(3216)
C26	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR23	1-216-296-00	CONDUCTOR, CHIP	(3216)
C27	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR24	1-216-296-00	CONDUCTOR, CHIP	(3216)
C28	1-163-023-00	CERAMIC CHIP	0.015uF 5% 50V	JR25	1-216-296-00	CONDUCTOR, CHIP	(3216)
C29	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR26	1-216-296-00	CONDUCTOR, CHIP	(3216)
C30	1-126-603-11	ELECT CHIP	4.7uF 20% 35V	JR27	1-216-296-00	CONDUCTOR, CHIP	(3216)
C31	1-164-232-11	CERAMIC CHIP	0.01uF 50V	JR28	1-216-296-00	CONDUCTOR, CHIP	(3216)
C32	1-163-023-00	CERAMIC CHIP	0.015uF 5% 50V	JR29	1-216-296-00	CONDUCTOR, CHIP	(3216)
C33	1-124-779-00	ELECT CHIP	10uF 20% 16V	JR30	1-216-296-00	CONDUCTOR, CHIP	(3216)
C34	1-109-982-11	CERAMIC CHIP	1uF 10% 10V	JR31	1-216-296-00	CONDUCTOR, CHIP	(3216)
C35	1-164-232-11	CERAMIC CHIP	0.01uF 50V	JR32	1-216-296-00	CONDUCTOR, CHIP	(3216)
C36	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR33	1-216-296-00	CONDUCTOR, CHIP	(3216)
C37	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR34	1-216-296-00	CONDUCTOR, CHIP	(3216)
C38	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR35	1-216-296-00	CONDUCTOR, CHIP	(3216)
C39	1-126-204-11	ELECT CHIP	47uF 20% 16V	JR36	1-216-296-00	CONDUCTOR, CHIP	(3216)
C40	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR37	1-216-296-00	CONDUCTOR, CHIP	(3216)
< CONNECTOR >				JR38	1-216-296-00	CONDUCTOR, CHIP	(3216)
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P		JR39	1-216-296-00	CONDUCTOR, CHIP	(3216)
CN2	1-565-728-11	CONNECTOR, FPC 17P		JR40	1-216-296-00	CONDUCTOR, CHIP	(3216)
CN3	1-770-347-21	CONNECTOR, FPC 6P		JR41	1-216-296-00	CONDUCTOR, CHIP	(3216)
< IC >				JR43	1-216-296-00	CONDUCTOR, CHIP	(3216)
IC1	8-752-372-94	IC CXD2507AQ		JR44	1-216-296-00	CONDUCTOR, CHIP	(3216)
IC2	8-752-069-56	IC CXA1782BQ		JR45	1-216-296-00	CONDUCTOR, CHIP	(3216)
IC3	8-759-354-16	IC BA6796FP-T1		JR46	1-216-296-00	CONDUCTOR, CHIP	(3216)
< JUMPER RESISTOR >				< COIL >			
JR1	1-216-296-00	CONDUCTOR, CHIP	(3216)	L1	1-412-058-11	INDUCTOR CHIP 10uH	
JR2	1-216-296-00	CONDUCTOR, CHIP	(3216)	L2	1-412-058-11	INDUCTOR CHIP 10uH	
JR3	1-216-296-00	CONDUCTOR, CHIP	(3216)	L3	1-412-058-11	INDUCTOR CHIP 10uH	
JR4	1-216-296-00	CONDUCTOR, CHIP	(3216)	< TRANSISTOR >			
JR5	1-216-296-00	CONDUCTOR, CHIP	(3216)	Q1	8-729-904-60	TRANSISTOR DTB113ZK	
JR6	1-216-296-00	CONDUCTOR, CHIP	(3216)	Q2	8-729-904-86	TRANSISTOR 2SB1197K-Q	
JR7	1-216-296-00	CONDUCTOR, CHIP	(3216)	< RESISTOR >			
JR8	1-216-296-00	CONDUCTOR, CHIP	(3216)	R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
JR9	1-216-296-00	CONDUCTOR, CHIP	(3216)	R2	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
JR10	1-216-296-00	CONDUCTOR, CHIP	(3216)	R3	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
JR11	1-216-296-00	CONDUCTOR, CHIP	(3216)	R4	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
JR12	1-216-296-00	CONDUCTOR, CHIP	(3216)	R5	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
JR13	1-216-296-00	CONDUCTOR, CHIP	(3216)	R6	1-216-073-00	METAL CHIP 10K 5% 1/10W	
JR14	1-216-296-00	CONDUCTOR, CHIP	(3216)				

SERVO

SUB

Ref. No.	Part No.	Description	Remark
R7	1-216-009-00	METAL CHIP	22 5% 1/10W
R8	1-216-119-00	METAL CHIP	820K 5% 1/10W
R9	1-216-119-00	METAL CHIP	820K 5% 1/10W
R10	1-216-073-00	METAL CHIP	10K 5% 1/10W
R11	1-216-073-00	METAL CHIP	10K 5% 1/10W
R14	1-216-085-00	METAL CHIP	33K 5% 1/10W
R15	1-216-085-00	METAL CHIP	33K 5% 1/10W
R16	1-216-077-00	METAL CHIP	15K 5% 1/10W
R17	1-216-081-00	METAL CHIP	22K 5% 1/10W
R19	1-216-079-00	METAL CHIP	18K 5% 1/10W
R20	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R21	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R22	1-216-085-00	METAL CHIP	33K 5% 1/10W
R23	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R24	1-216-073-00	METAL CHIP	10K 5% 1/10W
R27	1-216-295-00	CONDUCTOR, CHIP	(2012)
R28	1-216-101-00	METAL CHIP	150K 5% 1/10W
R29	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R30	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R31	1-216-081-00	METAL CHIP	22K 5% 1/10W
R32	1-216-109-00	METAL CHIP	330K 5% 1/10W
R33	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R34	1-216-009-00	METAL CHIP	22 5% 1/10W
R35	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R36	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R37	1-216-117-00	METAL CHIP	680K 5% 1/10W
R38	1-216-109-00	METAL CHIP	330K 5% 1/10W
R39	1-216-101-00	METAL CHIP	150K 5% 1/10W
R40	1-216-114-00	METAL GLAZE	510K 5% 1/10W
R41	1-216-093-00	METAL CHIP	68K 5% 1/10W
R42	1-216-107-00	METAL CHIP	270K 5% 1/10W
R43	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R44	1-216-085-00	METAL CHIP	33K 5% 1/10W
R45	1-216-081-00	METAL CHIP	22K 5% 1/10W
R46	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R47	1-216-105-11	METAL GLAZE	220K 5% 1/10W
R48	1-216-073-00	METAL CHIP	10K 5% 1/10W
R49	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R50	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R51	1-216-295-00	CONDUCTOR, CHIP	(2012)
< VARIABLE RESISTOR >			
RV1	1-238-091-11	RES, ADJ, CERMET 22K	
RV4	1-238-091-11	RES, ADJ, CERMET 22K	

Ref. No.	Part No.	Description	Remark
*	1-659-834-11	SUB BOARD	*****
< CONNECTOR >			
CN1	1-770-347-21	CONNECTOR, FPC 6P	*****
MISCELLANEOUS			

9	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER)	
△ 210	8-848-402-02	PICK-UP, OPTICAL KSS-520A/J2NP	
F501	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M901	X-3371-664-2	MOTOR ASSY (SPINDLE)	
M902	A-3291-674-A	MOTOR ASSY, SLED	
M903	A-3291-676-A	MOTOR SUB ASSY, LOADING	*****
ACCESSORIES & PACKING MATERIALS			

4-H00-065-01 MANUAL, INSTRUCTION			
4-H00-066-02 MANUAL, INSTRUCTION, INSTALL			
3-937-057-21 CASE (PANEL) ASSY			

HARDWARE LIST			

#1	7-627-000-00	SCREW, PRECISION +P1.7X2.2 TYPE3	
#2	7-685-791-09	SCREW +PTT 2.6X5 (S)	
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#5	7-621-772-10	SCREW +B 2X4	
#6	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#7	7-628-253-00	SCREW +PS 2X4	
#8	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#9	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#10	7-627-850-28	SCREW, PRECISION +P 1.4X3	*****

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

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS			

251	3-014-370-21	FRAME ASSY	
252	3-386-828-01	SCREW, FITTING	
253	3-349-410-01	BUSHING	
254	3-388-078-01	KEY	
255	X-3370-077-2	SCREW ASSY, FITTING	
256	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER)	
257	1-465-459-21	ADAPTOR, ANTENNA	

