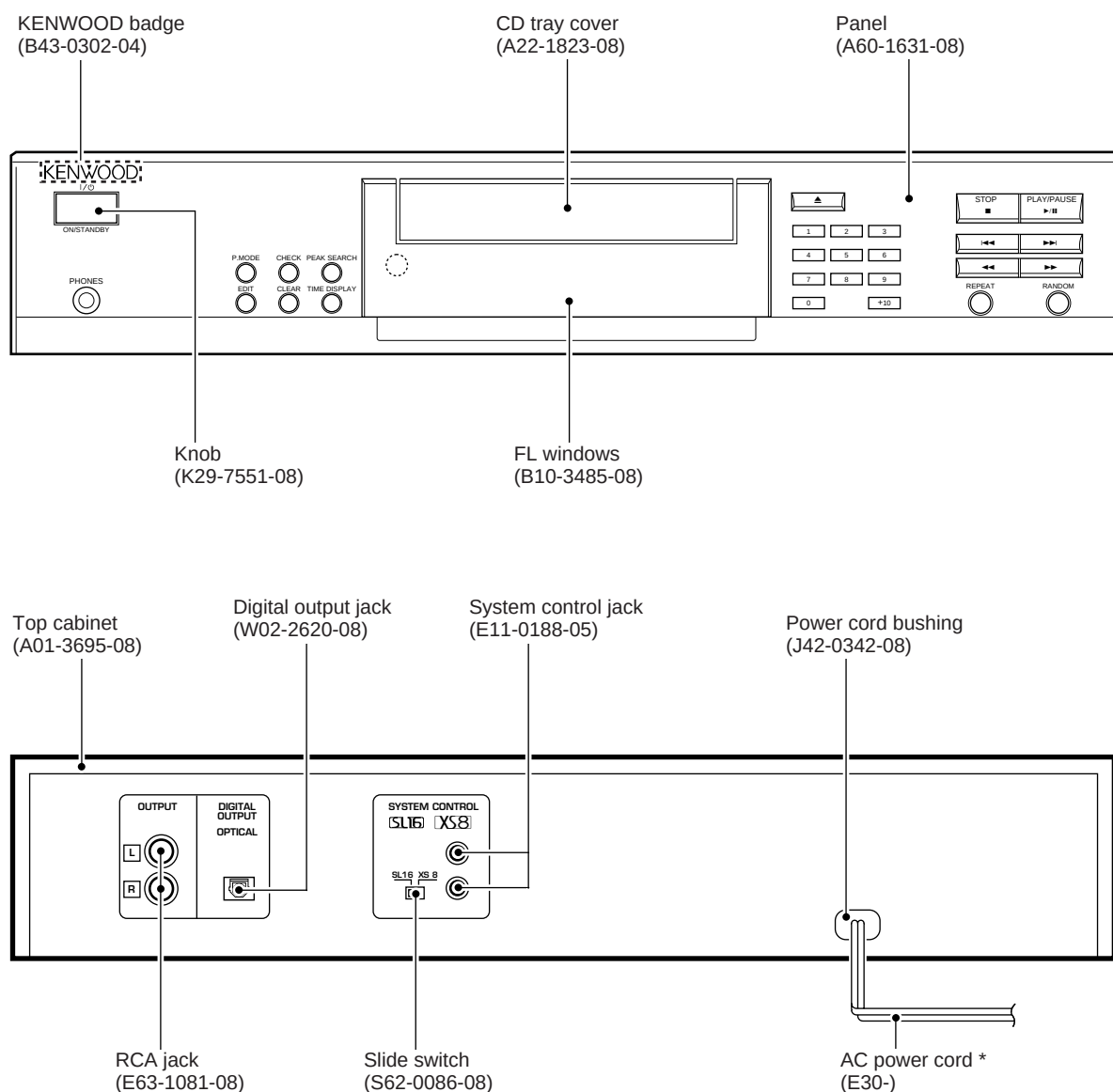


DPF-1010/1010E/ 2010/2010E

SERVICE MANUAL

This manual is available for repairing the unit serial number from 80900001.

Please use the original service manual(B51-5428-00) if the serial number is before 80900000.



Illust is DPF-2010.

* Refer to parts list on page 16.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Refer to DP-3080MKII/3090 Service manual (B51-5349-00), if you require disassembly for repair.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.**

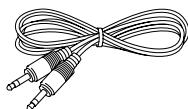
ACCESSORIES / CAUTIONS

Accessories

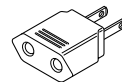
Audio cord (1)
(E30-2913-08)



System control cord (1)
(E30-2912-08)

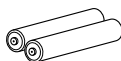


AC plug adaptor (1)
(E03-0115-05)



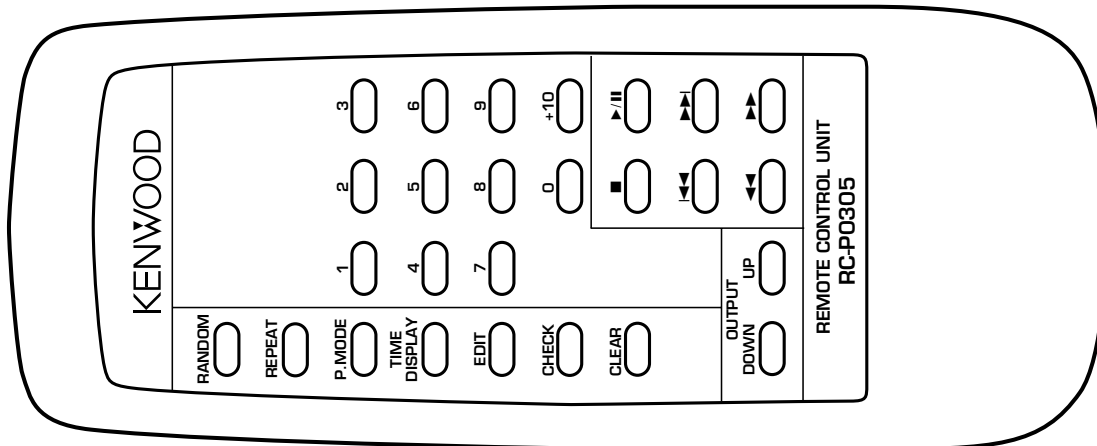
Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

Batteries (R6/AA) (2)



Remote control unit (1)
(A70-1181-08) : RC-P0305

Battery cover : (A09-0356-08)

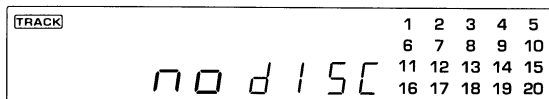


Cautions

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Verify that the display shown appears.



3. Wait a few seconds and set the unit to STANDBY mode.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the connection cords are unplugged while unit is ON or due to an external factor. In this case, execute the following method to reset the microcomputer and return it to normal condition.

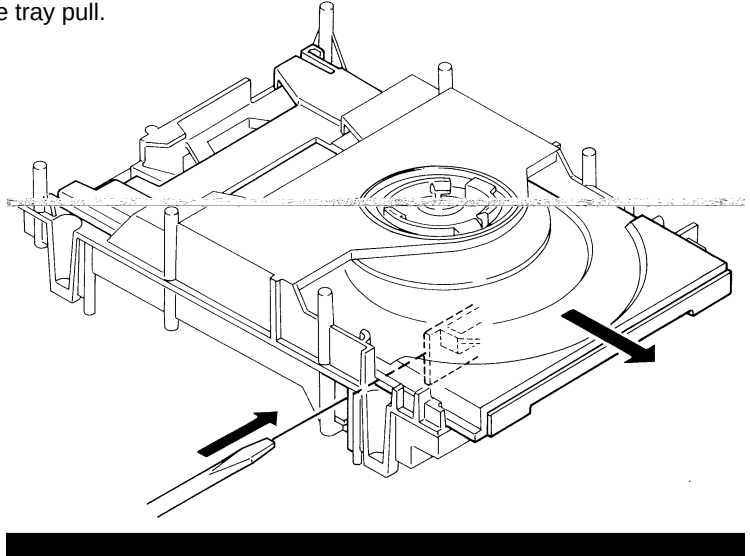
Set the unit to STANDBY mode by pressing the ON/STANDBY (I / ⏻) key, and after a few seconds, turn the unit ON by pressing the ON/STANDBY (I / ⏻) key again.

- Please be aware that resetting the CD player will erase all stored information and return it to the factory settings.

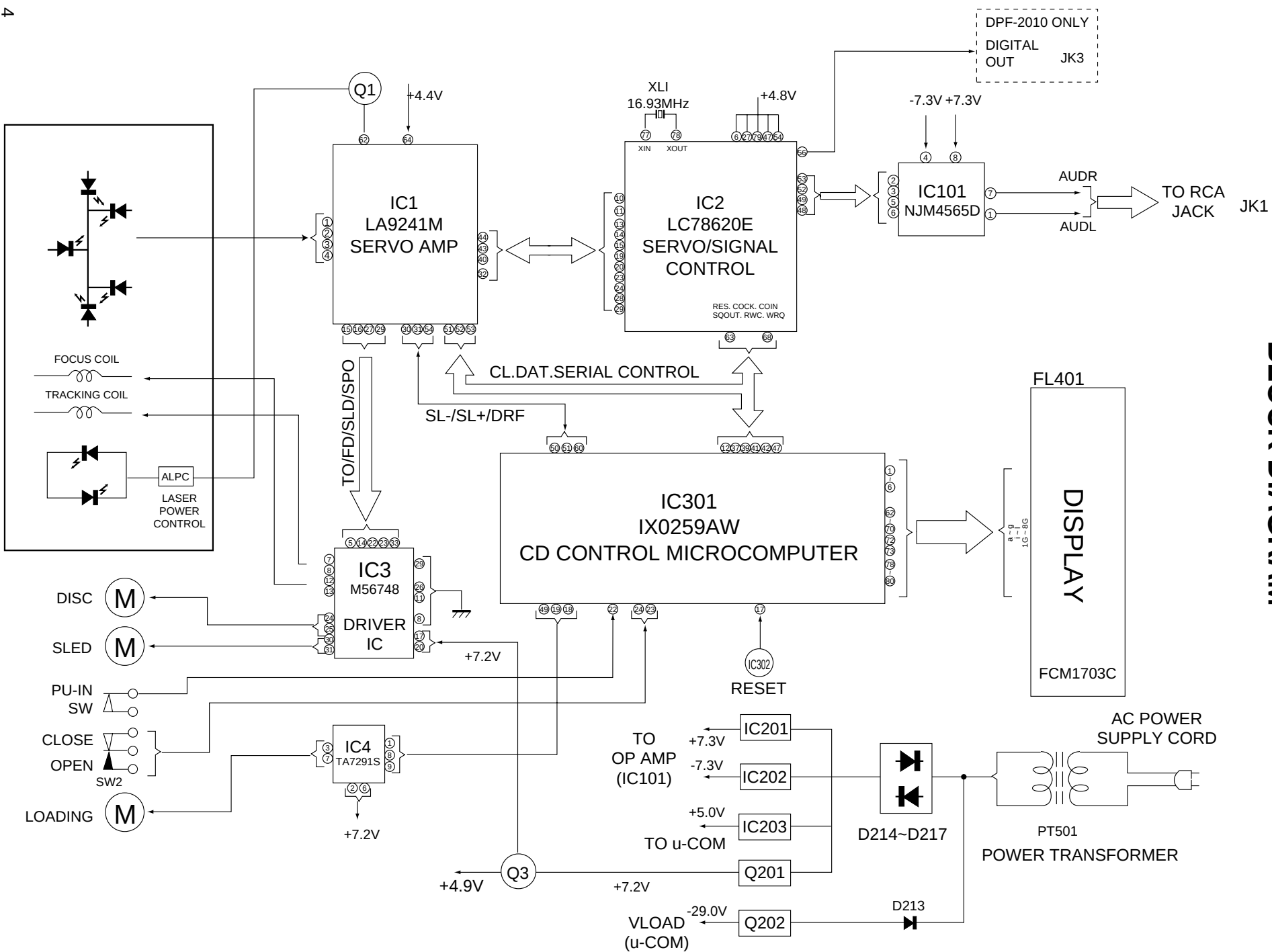
DISASSEMBLY FOR REPAIR

1. How to open tray when tray not come out.

1. Insert the screw driver to left side hole of mechanism ass'y.
2. While pushing the rack gear fully right wards, then the tray pull.



BLOCK DIAGRAM



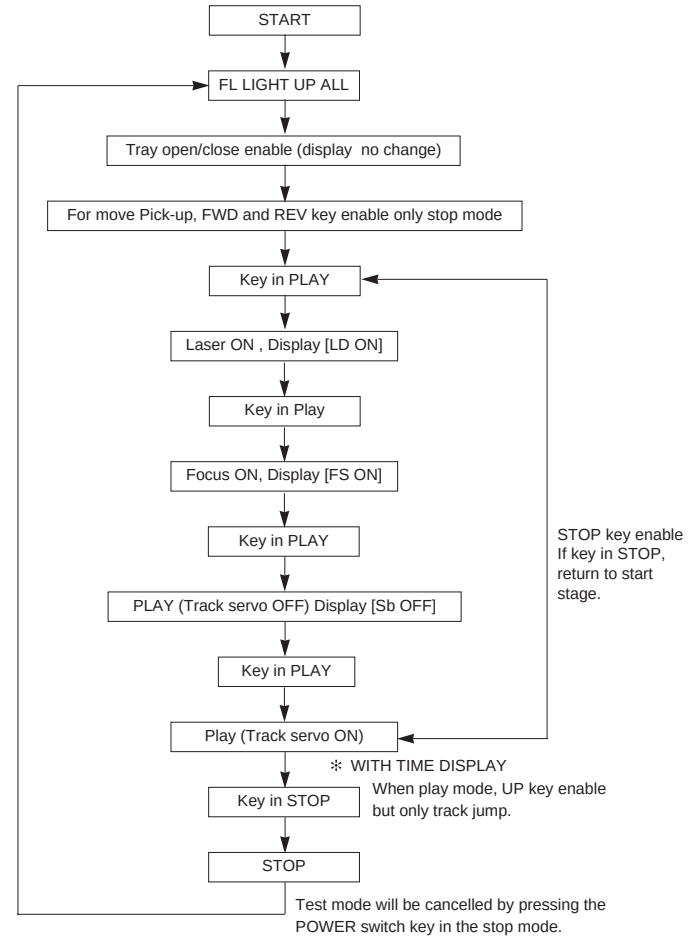
1. Pin description

Pin No.	Name	I/O	Description
1-6	6G-1G	O	Display grid driver(6G-1G)
7	NC	O	Open
8	VDD	–	VDD +5V
9	S GATE	I	Open
10	SCK	I	Open
11	S DATA	I	Open
12	C-RESET	O	DSP Reset L:Reset
13	S-MUTE	O	System mute L:ON
14	NC	I	Open
15	TEXT	I	Text copy detection
16	NC	I	Open
17	RESET	I	Hardware reset L:Reset
18	LD CLOSE	O	Tray motor control H:close
19	LD OPEN	O	Tray motor control H:open
20	AVSS	–	GND
21	NC	I	Open
22	PU IN	I	Pickup location L:inside
23	OPEN	I	Tray open L:open
24	CLOSE	I	Tray close L:close
25-28	KEY0-3	I	Key input
29	AVDD	–	AVDD +5V
30	AVREF	–	AVREF +5V
31,32	XT1,2	–	Open or GND
33	VSS	–	GND
34,35	X0,1	–	X' tal 4.19MHz
36	WRQ	I	Write request
37	COIN	O	Command data to CD DSP
38	16/8BIT	I	16/8 bit switch H:16
39	HF	I	Open
40	NC	O	Open
41	CQCK	O	Clock to CD DSP
42	SQOUT	I	SQ data from CD DSP
43	RWC	O	Read/write control
44	NC	I	Open
45	SBUSY	I/O	System control data
46	SDATA	I/O	System control status
47	REMOCON	I	Remote control signal input L:input
48	GND	–	GND
49	TRY L/H	O	Tray motor speed control L:high
50	SL-	O	Sled motor reverse
51	SL+	O	Sled motor forward
52	VDD	–	VDD +5V
53-58	NC	O	Open
59	EMPH	O	De-emphasis monitor output
60	DRF	I	CD focus OK signal H:OK
61	NC	O	Open
62-70	a-j	O	Display segments driver(a-j)
71	VLOAD	–	Vload 32V
72,73	k,l	O	Display segments driver(k,l)
74-77	NC	O	Open
78-80	9G-7G	O	Display grids driver(9G-7G)

2. Test mode

Setting the test mode

: While pressing the STOP key, press the POWER switch.



3. Key function in test mode

No.	INPUT KEY	FUNCTION	DISPLAY
1	PLAY(1ST)	LASER ON	LD ON
2	PLAY(2ND)	FOCUSING SERVO ON	FS ON
3	PLAY(3RD)	PLAY(TRACKING SERVO OFF)	Sb off
4	PLAY(4TH)	PLAY(TRACKING SERVO ON)	TN0. And Time
5	UP	In the stop mode. Moves the pickup slightly toward the outer position disc. When tracking servo is ON, set the track number up.	–
6	DOWN	In the stop mode. Moves the pickup slightly toward the inner position disc. When tracking servo is ON, set the track number up.	–
7	STOP	Laser off, focusing servo off, tracking servo off.	All segments
8	OPEN/CLOSE	In the stop mode, Tray is opened or closed.	All segments

ADJUSTMENT

CD section

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

•Automatic adjustment item

1. Focus offset(Fig.1)
2. Tracking offset(Fig.2)
3. E/F balance (Tracking error balance) (Fig.3)
4. RF level AGC function (HF level : constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings

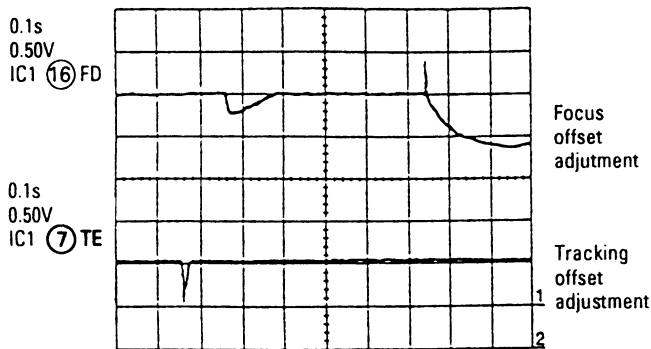


Fig.1

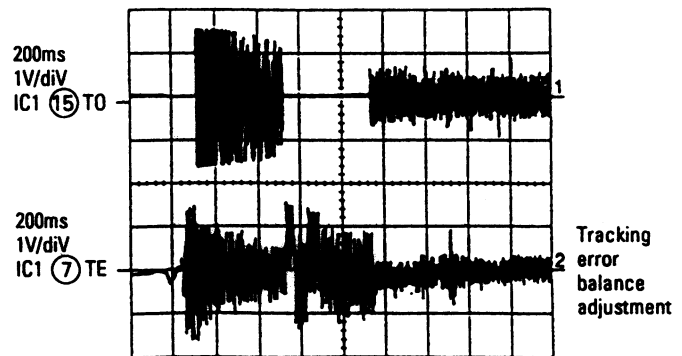


Fig.3

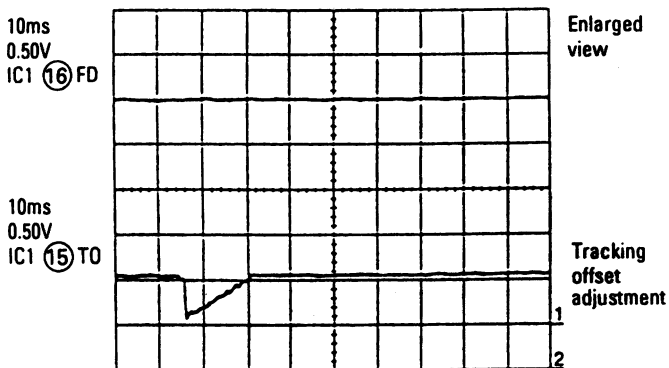


Fig.2

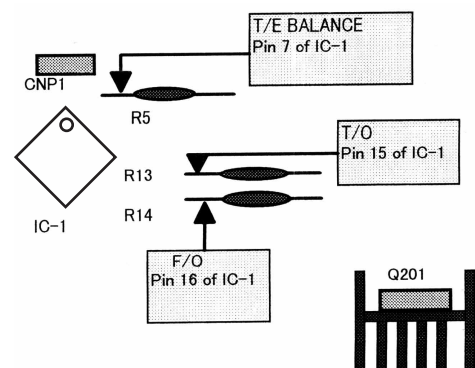
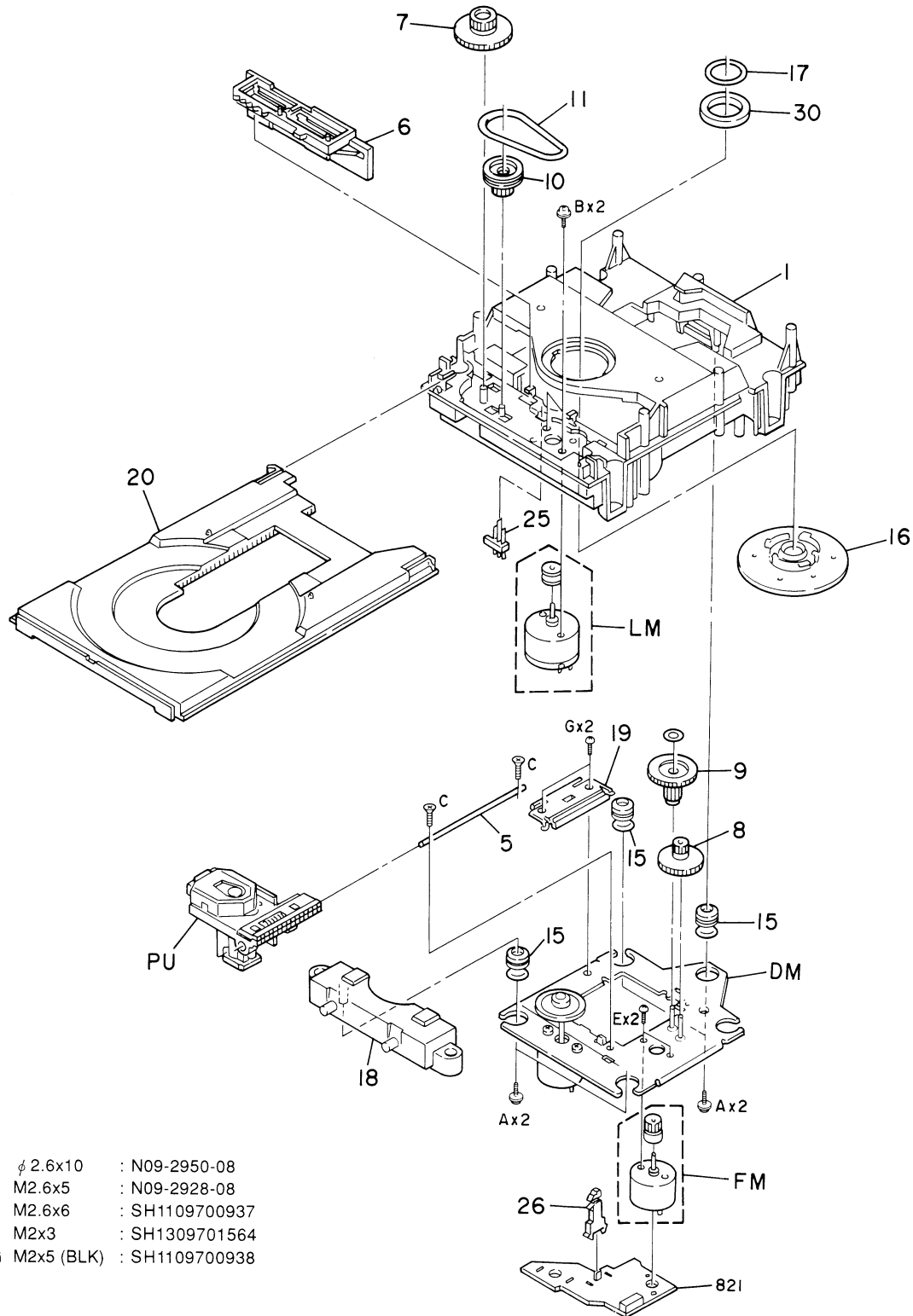


Fig.4 Checking points

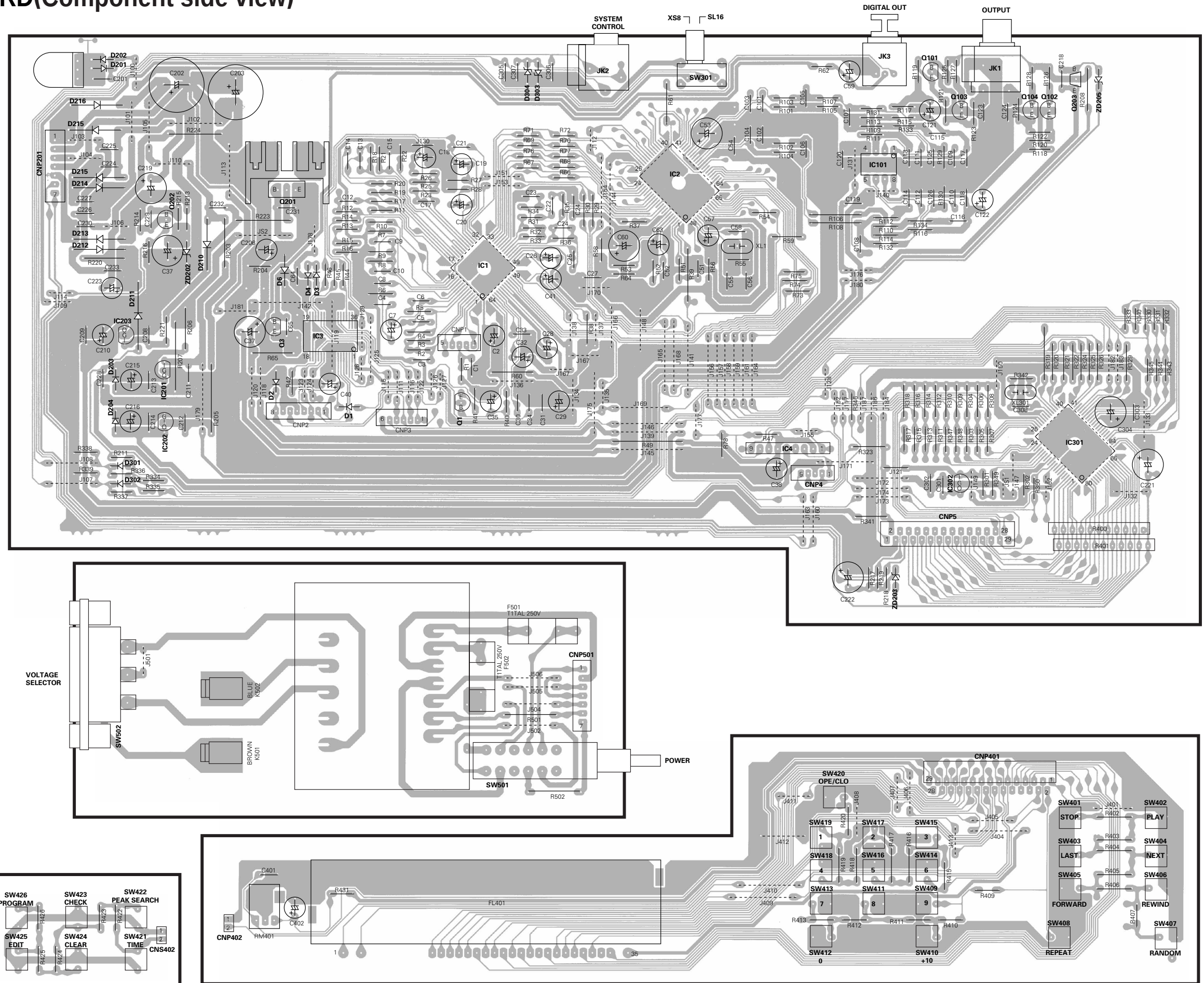
DPF-1010/1010E/2010/2010E

EXPLODED VIEW (MECHANISM)

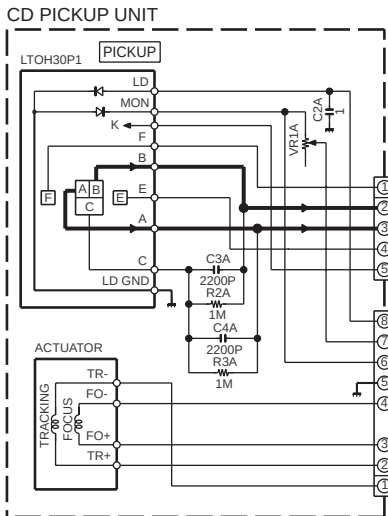


A	φ 2.6x10	: N09-2950-08
B	M2.6x5	: N09-2928-08
C	M2.6x6	: SH1109700937
E	M2x3	: SH1309701564
G	M2x5 (BLK)	: SH1109700938

PC BOARD(Component side view)



Refer to the schematic diagram for the value of resistors and capacitors.



DPF-1010

DESTINATION	COUNTRY	ABB.	R302	JUMPER	SW502	J501
GENERAL MARKET	M				YES	NO
AUSTRALIA	X					
U.K.	T					
EUROPE	E					
EAST EUROPE	E2					

DPF-2010

DESTINATION	COUNTRY	ABB.	R302	JUMPER	SW502	J501
GENERAL MARKET	M				YES	NO
AUSTRALIA	X					
U.K.	T					
EUROPE	E					
EAST EUROPE	E2					

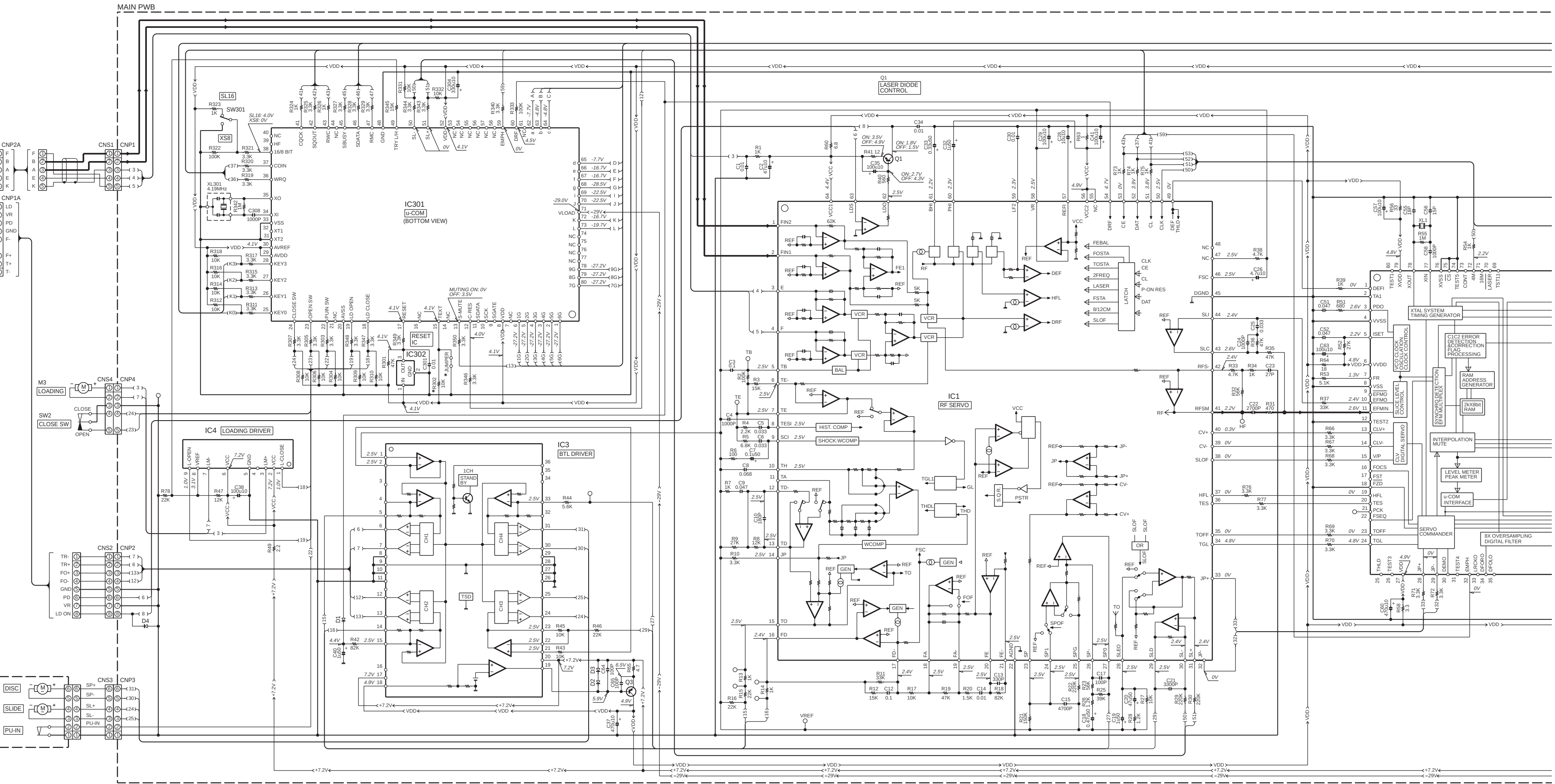
IC1 : LA9241M
IC2 : LC78620E
IC3 : M56748FP
IC4 : TA7291S
IC101 : NJM455DD
IC201 : KIA78S08P
IC202 : NJM79L08A
IC203 : KIA78S05P
IC301 : IX0259
IC302 : KIA7036AP

Q1,202 : KTA1266GR
Q3 : KTA1271Y
Q101-104 : 2SC2878B
Q201 : 2SD2012Y
Q203 : KRC102M

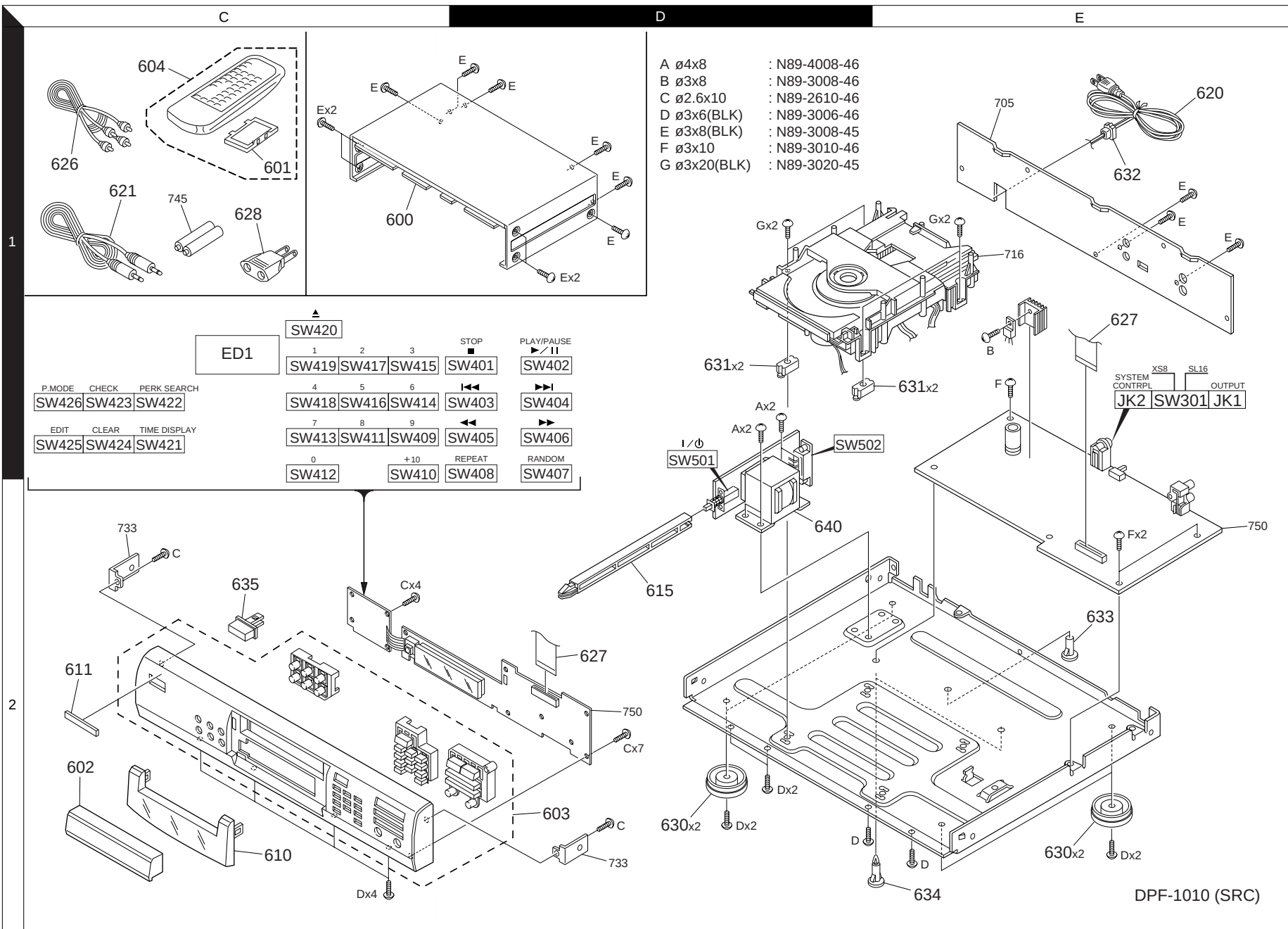
D1-4,201-204,211,301-304 : 1S5133
D210,212-217 : RL104AT

ZD202 : MTZ330B
ZD203 : MTZ35.6B
ZD205 : MTZ38.2B

--- DIGITAL LINE
--- SIGNAL LINE
--- GND LINE
--- +B LINE
--- -B LINE



EXPLODED VIEW (UNIT)



DPF-1010 (SRC)

* New Parts

Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
DPF-1010/2010						
600	1C	*	A01-3695-08	TOP CABINET		
601	1C		A09-0356-08	BATTERY COVER		
602	2C	*	A22-1823-08	CD TRAY COVER		
603	2D	*	A60-1630-08	FRONT CAB ASSY		1
603	2D	*	A60-1631-08	FRONT CAB ASSY		2
604	1C		A70-1181-08	REMOTE CONTROL		
610	2C	*	B10-3485-08	FL WINDOW		2
611	2C		B43-0302-04	KENWOOD BADGE		
615	2D	*	D21-1934-08	POWER SWITCH LEVER		
620	1E		E30-2750-08	AC CORD	X	
620	1E	*	E30-2911-08	AC CORD	EE2	
620	1E	*	E30-2915-08	AC CORD	T	
620	1E	*	E30-2914-08	AC CORD	M	
621	1C	*	E30-2912-08	SYSTEM CONT CORD		
626	1C	*	E30-2913-08	RCA CORD		
627	2D, 1E	*	E35-2315-08	FFC CABLE CNP5-CNP401		
628	1C	*	E03-0115-05	AC PLUG ADAPTER	M	
630	2D, 2E	*	J02-1441-08	DECORATION LEG		
631	1D, 1E	*	J32-0341-08	CD MECHA SPACER X4		
632	1E	*	J42-0342-08	AC CORD BUSH		
633	2E	*	J19-5972-08	PWB SUPPORT		
634	2E	*	J19-5974-08	STUD		
635	2C	*	K29-7551-08	POWER KNOB		
640	2D	*	L07-2717-08	POWER TRANSFORMER(PT501)	EXTE2	
640	2D	*	L07-2718-08	POWER TRANSFORMER(PT501)	M	
-		*	B60-3730-08	INST BOOK(ENG)	MXTE2	
-		*	B60-3731-08	INST BOOK(IT/FR)	E	
-		*	B60-3732-08	INST BOOK(GER/DTH)	E	
-		*	B60-3733-08	INST BOOK(SPAIN)	EM	
-		*	B60-3734-08	INST BOOK(TWN)	E2	
-		*	B60-3977-08	INST BOOK(RU)	E2	
-		*	B60-3978-08	INST BOOK(HG)	E2	
-		*	B60-3979-08	INST BOOK(CZ)	E2	
-		*	B60-3980-08	INST BOOK(PLN)	E2	
-		*	H10-7559-08	P-ADD		
-		*	H25-1650-08	SET POLY BAG		
-		*	H50-3188-08	P-CASE	EXT	2
-		*	H50-3189-08	P-CASE	M	2
-		*	H50-3190-08	P-CASE	E2	1
-		*	H50-3191-08	P-CASE	EXT	
-		*	H50-3192-08	P-CASE	M	1
-		*	H50-3193-08	P-CASE	E2	1
ELECTRONICS PARTS						
FL401		*	CM1703C	FL DISPLAY,CM1703C		
C1			CK45FB1H103Z	CERAMIC	0.010UF	Z
C2			CE04KW1A470M	ELECTRO	47UF	10WV
C3			CQ92FM1H104K	MYLAR	0.10UF	K
C4			CQ92FM1H102K	MYLAR	1000PF	K
C5, 6			CQ92FM1H333K	MYLAR	0.033UF	K
C7			CE04KW1HR10M	ELECTRO	0.10UF	50WV
C8			CQ92FM1H683K	MYLAR	0.068UF	K
C9			CQ92FM1H473K	MYLAR	0.047UF	K

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Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas A indicates safety critical components.

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2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C10			CC45FSL1H181J	CERAMIC	180PF	J
C12			CQ92FM1H104K	MYLAR	0.10UF	K
C13			CC45FSL1H331J	CERAMIC	330PF	J
C14			CQ92FM1H103K	MYLAR	0.010UF	K
C15			CQ92FM1H472K	MYLAR	4700PF	K
C17			CC45FSL1H101J	CERAMIC	100PF	J
C18			CE04KW1HR47M	ELECTRO	0.47UF	50WV
C19			CE04KW1H010M	ELECTRO	1.0UF	50WV
C20			CE04KW1H470M	ELECTRO	47UF	50WV
C21			CQ93FM1H332K	MYLAR	3300PF	K
C22			CQ93FM1H272K	MYLAR	2700PF	K
C23			CC45FSL1H270J	CERAMIC	27PF	J
C24			CQ92FM1H102K	MYLAR	1000PF	K
C25			CQ92FM1H333K	MYLAR	0.033UF	K
C26			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C28			CE04KW1A100M	ELECTRO	10UF	10WV
C29			CE04KW1A101M	ELECTRO	100UF	10WV
C30			CQ92FM1H103K	MYLAR	0.010UF	K
C32			CE04KW1H010M	ELECTRO	1.0UF	50WV
C33			CE04KW1HR33M	ELECTRO	0.33UF	50WV
C34			CK45FB1H103Z	CERAMIC	0.010UF	Z
C35			CE04KW1A101M	ELECTRO	100UF	10WV
C37			CE04KW1A471M	ELECTRO	470UF	10WV
C38			CE04KW1A101M	ELECTRO	100UF	10WV
C40			CE04KW1H010M	ELECTRO	1.0UF	50WV
C41			CE04KW1A101M	ELECTRO	100UF	10WV
C51, 52			CQ92FM1H473K	MYLAR	0.047UF	K
C53			CE04KW1A471M	ELECTRO	470UF	10WV
C55			CC45FSL1H180J	CERAMIC	18PF	J
C56			CC45FSL1H150J	CERAMIC	15PF	J
C57			CE04KW1A101M	ELECTRO	100UF	10WV
C58			CQ92FM1H102K	MYLAR	1000PF	K
C59			CE04KW1A101M	ELECTRO	100UF	10WV
C60			CE04KW1A471M	ELECTRO	470UF	10WV
C63			CE04KW1A101M	ELECTRO	100UF	10WV
C64, 65			CC45FSL1H101J	CERAMIC	100PF	J
C101, 102			CC45FSL1H680J	CERAMIC	68PF	J
C103, 104			CC45FSL1H100J	CERAMIC	10PF	J
C105, 106			CC45FSL1H101J	CERAMIC	100PF	J
C107, 108			CC45FSL1H471J	CERAMIC	470PF	J
C109, 110			CC45FSL1H121J	CERAMIC	120PF	J
C111, 112			CC45FSL1H330J	CERAMIC	33PF	J
C113, 114			CC45FSL1H181J	CERAMIC	180PF	J
C115, 116			CC45FSL1H151J	CERAMIC	150PF	J
C117, 118			CC45FSL1H561J	CERAMIC	560PF	J
C119			CK45FB1H103Z	CERAMIC	0.010UF	Z
C120			CC45FSL1H101J	CERAMIC	100PF	J
C121, 122			CE04KW1E220M	ELECTRO	22UF	25WV
C123, 124			CQ92FM1H102K	MYLAR	1000PF	K
C125, 126			CC45FSL1H121J	CERAMIC	120PF	J
C201			CK45FB1H103Z	CERAMIC	0.010UF	Z
C202			CE04KW1E472M	ELECTRO	4700UF	25WV
C203			CE04KW1E222M	ELECTRO	2200UF	25WV
C206			CE04KW1C100M	ELECTRO	10UF	16WV
C208			CQ92FM1H104K	MYLAR	0.10UF	K

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PARTS LIST

DPF-1010/1010E/2010/2010E

* New Parts

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③

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C210 C211, 212 C215, 216 C218 C219			CE04KW1A101M CK45FB1H102K CE04KW1A101M CQ92FM1H103K CE04KW1H101M	ELECTRO 100UF 10WV CERAMIC 1000PF K ELECTRO 100UF 10WV MYLAR 0.010UF K ELECTRO 100UF 50WV		
C220 C221, 222 C223 C224~227 C231			CE04KW1H470M CE04KW1H101M CE04KW1H100M CK45FB1H103Z CC45FSL1H101J	ELECTRO 47UF 50WV ELECTRO 100UF 50WV ELECTRO 10UF 50WV CERAMIC 0.010UF Z CERAMIC 100PF J		
C301 C304 C305, 306 C307 C308			CK45FB1H103Z CE04KW1A331M CC45FSL1H221J CK45FB1H103Z CQ92FM1H102K	CERAMIC 0.010UF Z ELECTRO 330UF 10WV CERAMIC 220PF J CERAMIC 0.010UF Z MYLAR 1000PF K		
C401 C402			CQ92FM1H102K CE04KW1A101M	MYLAR 1000PF K ELECTRO 100UF 10WV		2 2
CNP1 CNP2 CNP3 CNP4 CNP5	*	*	E40-8382-08 E35-2316-08 E40-8381-08 E40-8382-08 E40-8377-08	CONNECTOR CONNECTOR CONNECTOR CONNECTOR FFC CONE SIDE ENTRY		
CNP201 CNP401 CNP402, 403 CNP501 JK1	*	*	E40-8379-08 E40-8378-08 J19-5973-08 E40-8379-08 E63-1081-08	CONNECTOR WIRE FFC CONE TOP ENTRY 2P CABLE HOLDER CONNECTOR RCA JACK (2P)		
JK2 JK3 K501, 502			E11-0188-05 W02-2620-08 E35-1953-08	SYSTEM CONTROL JACK DIGITAL OUTPUT JACK LUG1746A POWER SUPPLY		2
Δ F501, 502			F05-1022-05	FUSE 1A		
XL1 XL301	*	*	L77-2231-08 L78-0692-08	CRYSTAL CRYSTAL 4.19MHZ		
R220 Δ R223			RD14BB2H332J RD14BB2H1R0J	RD 3.3K J 1/2W RD 1 J 1/2W		
SW301 SW401~426 SW501 Δ SW502	*	*	S62-0086-08 S70-0071-08 S68-0115-08 S62-0087-08	SWITCH SWITCH SWITCH SLIDE SWITCH	M	
D1~4 D201~204 D210 D211 D212~217			1SS133 1SS133 RL104 1SS133 RL104	DIODE DIODE DIODE DIODE DIODE		
D301~304 IC1 IC2 IC3 IC4			1SS133 LA9241M LC78620E M56748FP TA7291S	DIODE IC IC(CD SERVO DSP) IC IC(BRIDGE DRIVER)		
Δ IC101 Δ IC201 Δ IC202			NJM4565DD KIA78S08P NJM79L08A	IC OP AMP IC IC(VOLTAGE REGULATOR/ -8V)		

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

1 : DPF-1010

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

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④

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Δ IC203 IC301 IC302 Q1 Q3			KIA78S05P IX0259 KIA7036AP KTA1266GR KTA1271Y	IC IC SYSTEM U-CON IC TRANSISTOR TRANSISTOR		
Q101~104 Δ Q201 Δ Q202 Q203 ZD202			2SC2878B 2SD2012Y KTA1266GR KRC102M MTZJ30B	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR ZENER DIODE		
ZD203 ZD205			MTZJ5.6B MTZJ8.2B	ZENER DIODE ZENER DIODE		
RMC401			W02-2689-08	REMOTE CONTROL RECEIVE MODULE		
MECHANISM PARTS						
1 5 6 7 8	1B 2B 1A 1A 2B	*	A10-3468-08 D10-3619-08 D13-1726-08 D13-1727-08 D13-1728-08	LOADING CHASSIS GUIDE SFT RACK GEAR TRAY GEAR MIDDLE GEAR		
9 10 11 15 16	2B 1B 1B 2B,3B 2B		D13-1729-08 D15-0388-08 D16-0396-08 J02-1146-08 J11-0811-08	DRIVING GEAR DRIVE PULLEY DRIVE BELT CUSHION STABILIZER		
17 18 19 20 25	1B 3A 2B 2A 2B	*	J11-0812-08 J19-5661-08 J19-5662-08 J99-0809-08 S74-0080-08	CD MAGNET SHORT RING MEC HOLDER GUIDE RAIL DISC HOLDER LEAF SWITCH		
26 30 CNS1 CNS2 CNS3	3B 1B *	*	S74-0054-08 T99-0609-08 E35-2319-08 E35-2320-08 E35-2321-08	LEAF SWITCH MAGNET CONNECTOR WIRE (PICKUP) CD PICKUP B WIRE MOTOR WIRE		
CNS4 DM FM LM Δ PU	3B 3B 2B 2A	*	E35-2322-08 T42-0825-08 T42-0824-08 T42-0823-08 T25-0033-15	LOADING (5P) MOTOR ASSY DISC MOTOR ASSY FEED MOTOR ASSY TRAY PICKUP ASSY HPC1MASY		

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

1 : DPF-1010

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

G : Germany

V : China(Shanghai)

2 : DPF-2010

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

Δ indicates safety critical components.

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
DPF-1010	1	X	-	-	T	E	-	-	-
DPF-1010E	1	-	-	-	-	E2	-	-	-
DPF-2010	2	X	-	-	T	E	-	-	-
DPF-2010E	2	-	-	-	-	E2	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	-
DPF-1010	1	-	-	-	-	-	-	M	-
DPF-1010E	1	-	-	-	-	-	-	-	-
DPF-2010	2	-	-	-	-	-	-	M	-
DPF-2010E	2	-	-	-	-	-	-	-	-

PARTS LIST

DPF-1010/1010E/2010/2010E

