

DPC-885

SERVICE MANUAL

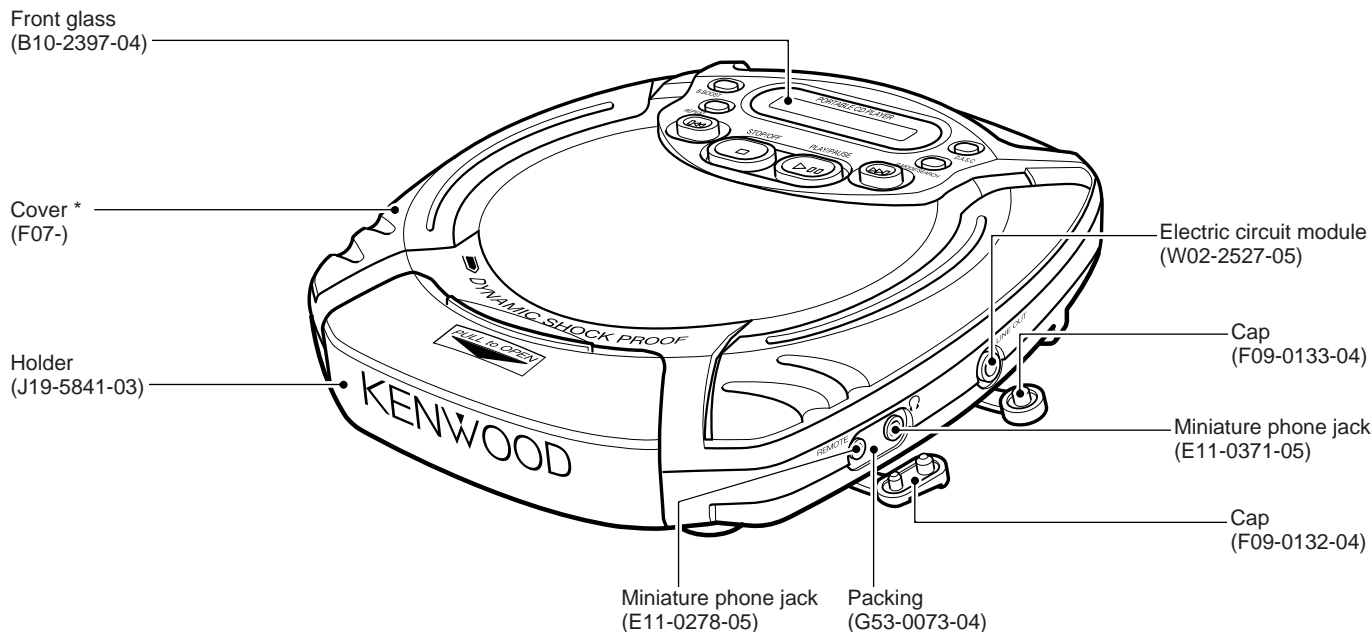


Illustration is K type.

* Refer to parts list on page 17.

SPECIFICATIONS

[Format]

System.....Compact disc digital audio system
 Laser.....Semiconductor laser

[Audio]

Frequency response.....20 Hz ~ 20 kHz, ±3 dB
 Headphone output (16 Ω, 1 kHz).....10 mW + 10 mW
 (Headphone output level / impedance).....max. 450 mV / 2.2 Ω

[For CHINA and Duty Free Shop in JAPAN]

Digital output optical.....-21 dBm ~ -15 dBm (wave length 660 nm)

[For other countries]

LINE output level/impedance.....550 mV/702 Ω

[Power supply]

External DC supply.....DC 4.5 ~ 6 V
 Rechargeable batteries (NB - 130) x 2.....DC 2.4 V
 Commercially-available alkaline batteries (LR6/AA) x 2.....DC 3 V

Battery life (continuous repeat playback)

(Figures inside parentheses are the values when D.A.S.C. is ON.)

Commercially-available alkaline batteries (LR6/AA) x 2Approx. 17.5 (15) hours
 Rechargeable batteries (NB-130) x 2.....Approx. 9.0 (8.0) hours

Dimensions (W x H x D)132mm x 32mm x 153mm (5 - 3/16" x 1 - 1/4" x 6")

Weight (net).....270 g (9.5 oz.)



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be exhibited at extremely cold locations (where water freezes.).

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

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

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

DPC-885

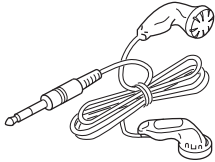
CONTENTS/ACCESSORIES

CONTENTS

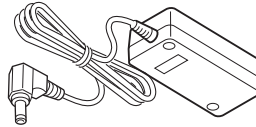
SPECIFICATIONS	Top cover	PC BOARD	7
CONTENTS/ACCESSORIES	2	SCHEMATIC DIAGRAM	9
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Accessories

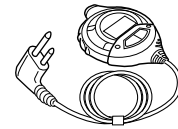
Stereo headphone.....(1)
(W01-0923-05) : M2



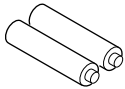
AC adapter.....(1)
(W08-0658-05) : E
(W08-0659-05) : T
(W08-0660-05) : X
(W08-0667-05) : M
(W09-1251-05) : KP



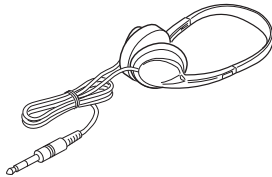
Remote control.....(1)
(A70-1163-05) : MX
(A70-1164-05) : KPET



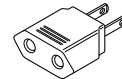
Rechargeable battery.....(2)
(W09-1237-05)



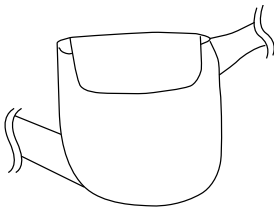
Stereo headphone.....(1)
(W01-0940-05) : KPMTEX



AC plug adapter.....(1)
(E03-0115-05) : M,M2



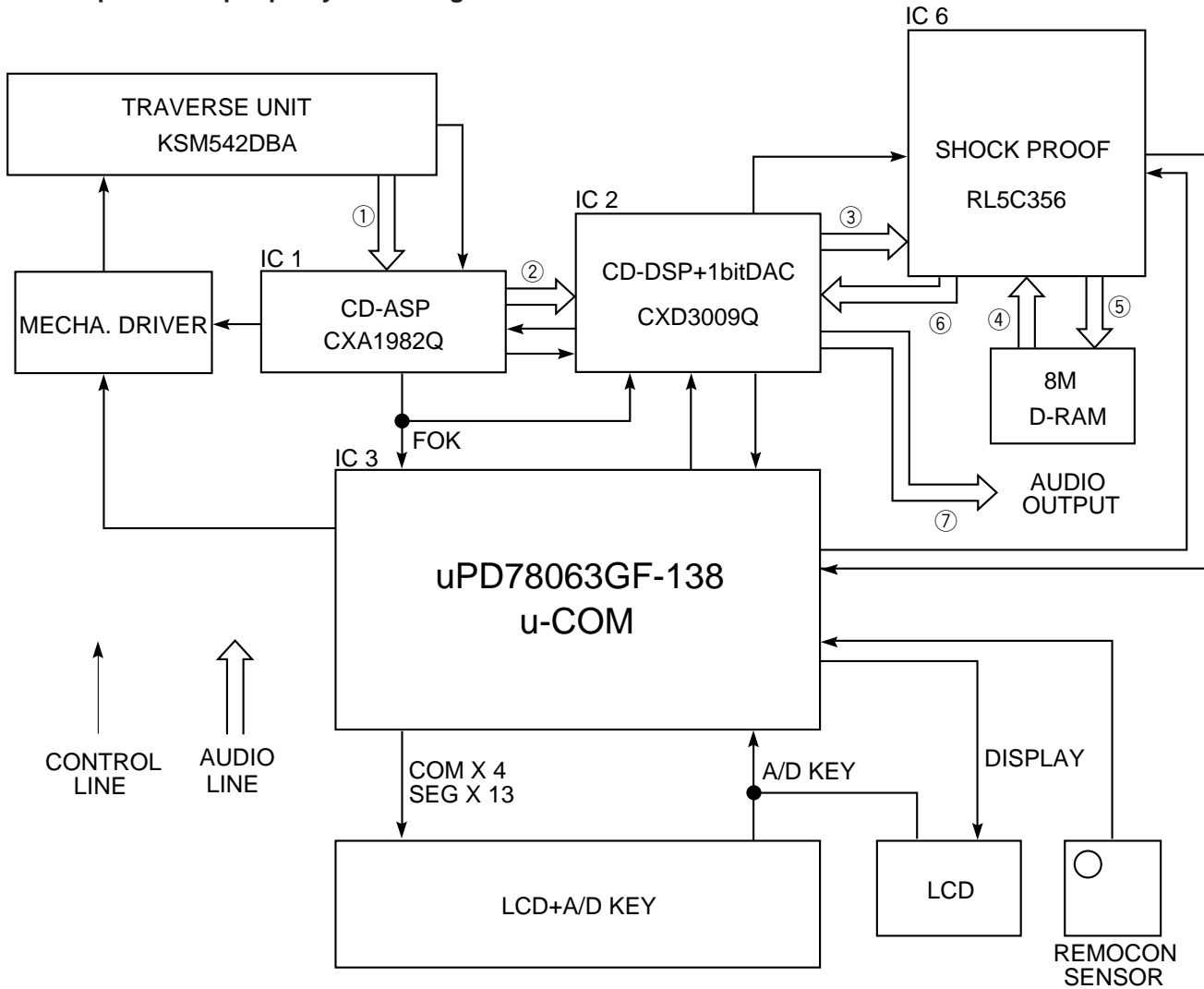
Carrying case.....(1)
(W01-0939-05)



CIRCUIT DESCRIPTION

1. Main microprocessor : μ PD78063GF-138 (X32-, IC3)

1-1 Microprocessor periphery block diagram



1-2 A/D converter

UNIT KEYS(1)

(IC3, 28Pin)

MKEY	V	
—	2.80	KEY OFF
—	1.97	DOWN
—	1.73	B.BOOST
—	1.49	UP
—	1.21	STOP
—	0.89	PLAY
—	0.60	KEY OFF
—	0.00	

UNIT KEYS(2)

(IC3, 29Pin)

MKEY	V	
—	2.80	KEY OFF
—	2.00	REPEAT
—	1.60	P.MODE
—	1.20	DASC
—	0.80	KEY OFF
—	0.00	

LCD H/P REMOCON KEYS

(IC3, 33Pin)

MKEY	V	
—	2.80	KEY OFF
—	1.97	DOWN
—	1.73	B.BOOST
—	1.49	UP
—	1.21	STOP
—	0.89	PLAY
—	0.60	KEY OFF
—	0.00	

BATTERY VOLTAGE

IC3 (31pin, 32Pin)

BATT	V	
—	2.80	
—	1.75	OK TO CHARGE
—	1.41	FLASH CHARGE INDICATOR
—	1.13	AUTO POWER-OFF
—	0.00	

CIRCUIT DESCRIPTION

1-3 Pin description microprocessor : μ PD78063GF-138 (X32-, IC3)

Pin No.	Name	I/O	Function
1	NC	I	Not used
2	SQCK	O	Clock output for Q-data input of CXD3009Q
3	SDTO	O	DATA input to RL5C356
4	SDTI	O	DATA output to RL5C356
5	SCK	O	CLOCK output to RL5C356
6	IC	-	Connected to VSS
7,8	X2,1	-	Connected to oscillator (5.00MHz)
9	VDD	-	Power supply
10	XT1	-	Connected to GND
11	XT2	-	Not used
12	RESET	I	Microprocessor reset
13	SCOR	I	Interruption of fall edge of SCOR
14	RCI	I	Remote control input
15	NC	-	Not used
16	FOK	I	Focus clock detection terminal (CXA 1982Q)
17	GFS	-	Not used
18	HDATA	O	Output terminal for LCD remocon display
19	B.B	O	For bass boost control
20	SGAIN	-	Not used
21	CHDT	I	Data comparator monitor input for RL5C356
22	XSOE	O	Serial data output permission signal for RL5C356
23,24	NC	-	Not used
25	DEFECT	O	Mirror bottom-hold-enable
26	NC	-	Not used
27	AVSS	-	Connected to GND
30	VOL	I	Volume level input of main unit
28,29	KEY1,KEY2	I	Key input from main unit or wired remote control
31,32	BATTV1,2	I	Detection of voltage level on rechargeable battery
33	HP KEY	I	HP Key input terminal for display
34	NC	-	Not used
35	ADON	O	A/D converter on/off
36	AVDD	-	Analog power supply for A/D converter
37	AVREF	-	Reference voltage input for A/D converter
38	SLTSW	I	Start limit switch of pickup
39	DCDC ON	O	DC/DC converter control (H:ON, L:OFF)
40	VSS	-	GND
41	ADPT	I	Adaptor detection (H:OFF, L:ON)
42	CHRGOK	I	Voltage level of rechargeable battery detection (H:NG, L:OK)
43	CHRG	O	Charge power supply
44	XRST	O	IC reset output terminal (CXA1982Q, CXD3009Q, RL5C356)
45	DMUTE	O	Motor drive mute output terminal
46	RMUTE	O	Analog mute output
47	TEST	I	For test mode
48	NC	-	Not used
49	PSW	O	Headphone amp control
50	HPMUTE	O	Mute output terminal for LCD remocon
51~54	COM0-3	O	Common signal output for display
55	BIAS	O	Bias input for display
56-58	VLC0-2	O	External resistor connected to power supply for dividing display
59	VSS	-	GND
60~74	S0~S14	O	Segments signal output for display
75~83	NC	-	Not used
84	LED	O	Power supply ON/OFF for optical output
85	SHOCK	O	Shock proof on/off (CXD3009Q) D.A.S.C. ON : L
86	XLAT	O	LATCH output to CXD3009Q
87	CLK	O	CLOCK output to CXD3009Q
88	DATA	O	DATA output to CXD3009Q
89	SENS	I	SENS input from CXD3009Q
90	PLUG	I	Remocon data input terminal

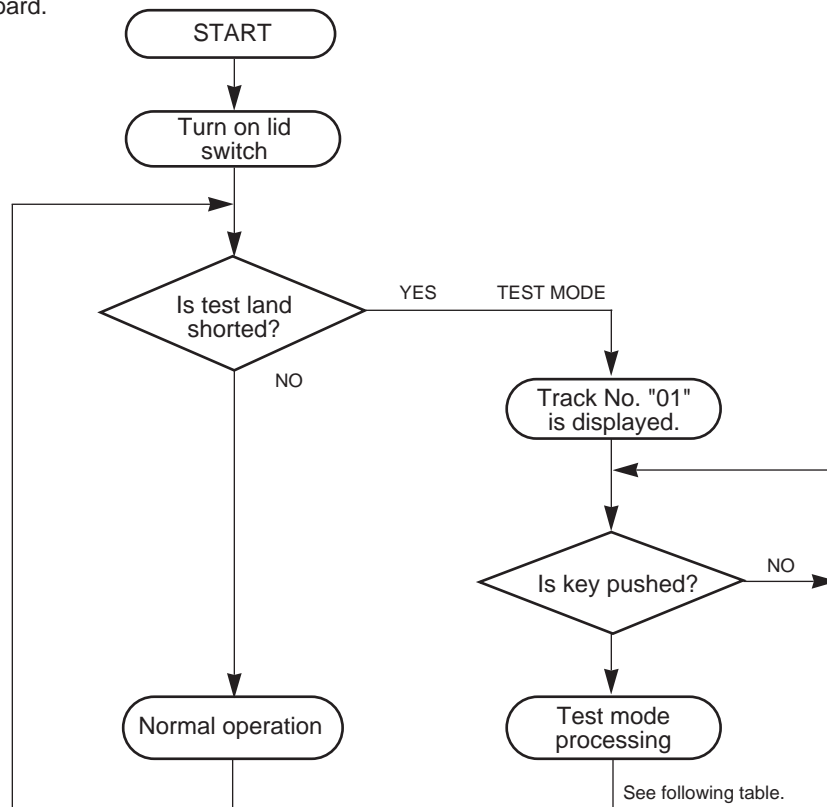
CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Function
91	LINE	I	Line out detection terminal
92	HOLD	I	HOLD switch on/off
93	LD	O	Laser diode output terminal
94	LIDSW	I	Cover open detection switch
95	XWIH	O	Write permission signal output for RL5C356
96	XEMP	I	Read prohibition signal input for RL5C356
97	XWRE	I	Write prohibition signal input for RL5C356
98	XQOK	O	CD sub code Q OK signal output for RL5C356
99	XLT	O	LATCH output to RL5C356
100	SQSO	I	CDQ code data input from CXD 3009Q

2. Test Mode

2-1 Setting the test mode

This model can be set to the test mode by shorting the test-land of the X32 board.



2-2 Key and functions avild in test mode

No.	Mode	Key Name	Function	TRACK No. display
1	05	PLAY/PAUSE (▶/)	1. Focus servo.....ON 2. Tracking servo.....ON 3. Feed servoON Absolute time at position of limit SW is displayed in time area, then play is started.	05 After 1, 2 and 3 are finished, track No. played currently and its play time are indicated.
2	03	UP (▶▶)	1. Focus servo.....ON 2. Tracking servo.....OFF 3. Feed servoOFF	03
3	01	STOP (■)	1. Focus servo.....OFF 2. Tracking servo.....OFF 3. Feed servoOFF ❖ Test mode can be can celled while pressing the STOP (■) Key in 01 mode.	01
4	While pressing the P. MODE/SEARCH Key, turn the AC ON		All LCD is turned ON for 2 seconds. ↓ All LCD is turned OFF for 2 seconds. ↓ Returned to normal mode.	—

ADJUSTMENT

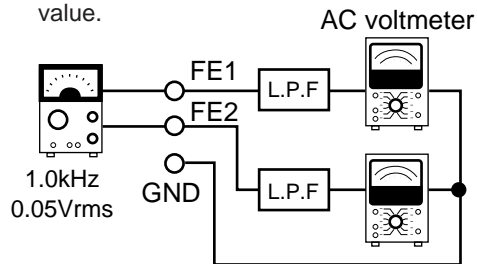
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	LASER POWER	-	Apply the sensor section of optical power meter on the pickup lens.	Short the test land. Confirm that the display is "01E5E". Press FF Key and confirm that the display is 03.	-	On the power from 0.08 to 0.15 mW, when the diffraction grating is correctly aligned with the RF level of 1.0 Vp-p or more.	-
2	FOCUS ERROR	Test disc KTD-03	Connect an oscilloscope as follows. CH1:RF (Check-land RF) CH2:TE1	Press the PLAY key . Confirm that the display is "05".	FE BALANCE VR3	Optimum eye pattern	-
3	TRACKING ERROR	Test disc KTD-03	Connect an oscilloscope as follows. CH1:RF (Check-land RF) CH2:TE1	Press the FF key. Confirm that the display is "03E5E".	TE BALANCE VR5	Symmetry between upper and lower	-
4	FOCUS GAIN	Test disc KTD-03 Apply signal of 1.0kHz, 0.05Vrms between Check-land FE1 and FE2.	Connect a LPF between Check-land FE1 and FE2 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	FOCUS GAIN VR4	Two VTVMs should read the same value.	(d)
5	TRACKING GAIN	Test disc KTD-03 Apply signal of 1.0kHz, 0.05Vrms between Check-land TE1 and TE2.	Connect a LPF between Check-land TE1 and TE2 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	TRACKING GAIN VR6	Two VTVMs should read the same value.	(e)

Note: Test DISC KTD-03, TCD-783 or equivalent
LPF : Around 47kΩ + 390 pF or so.

Step 1~5 are in Test Mode.

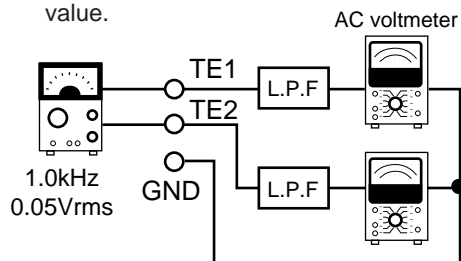
(d) Focus Gain

Two VTVMs should read the same value.

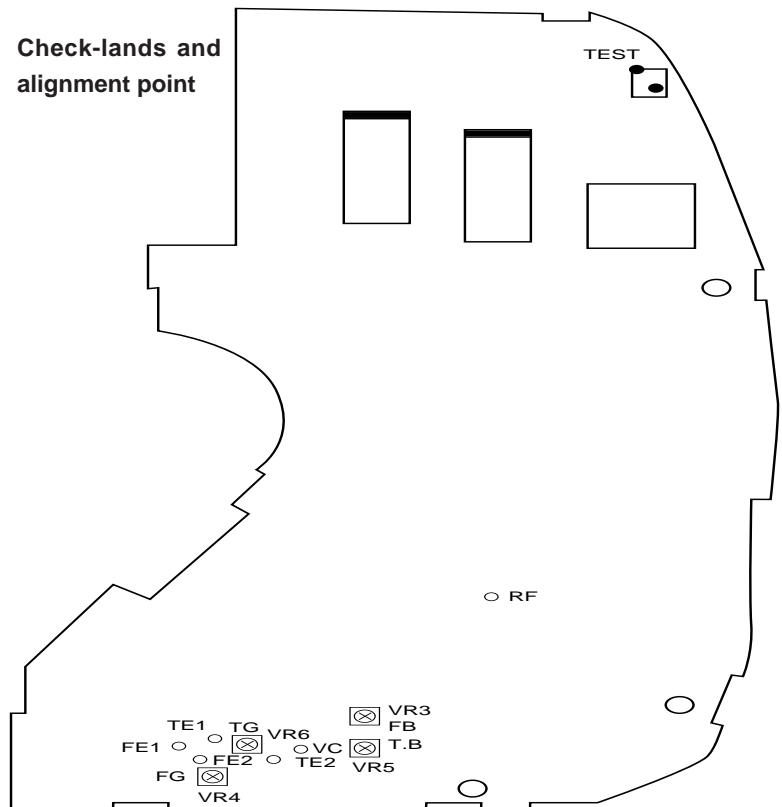


(e) Tracking Gain

Two VTVMs should read the same value.

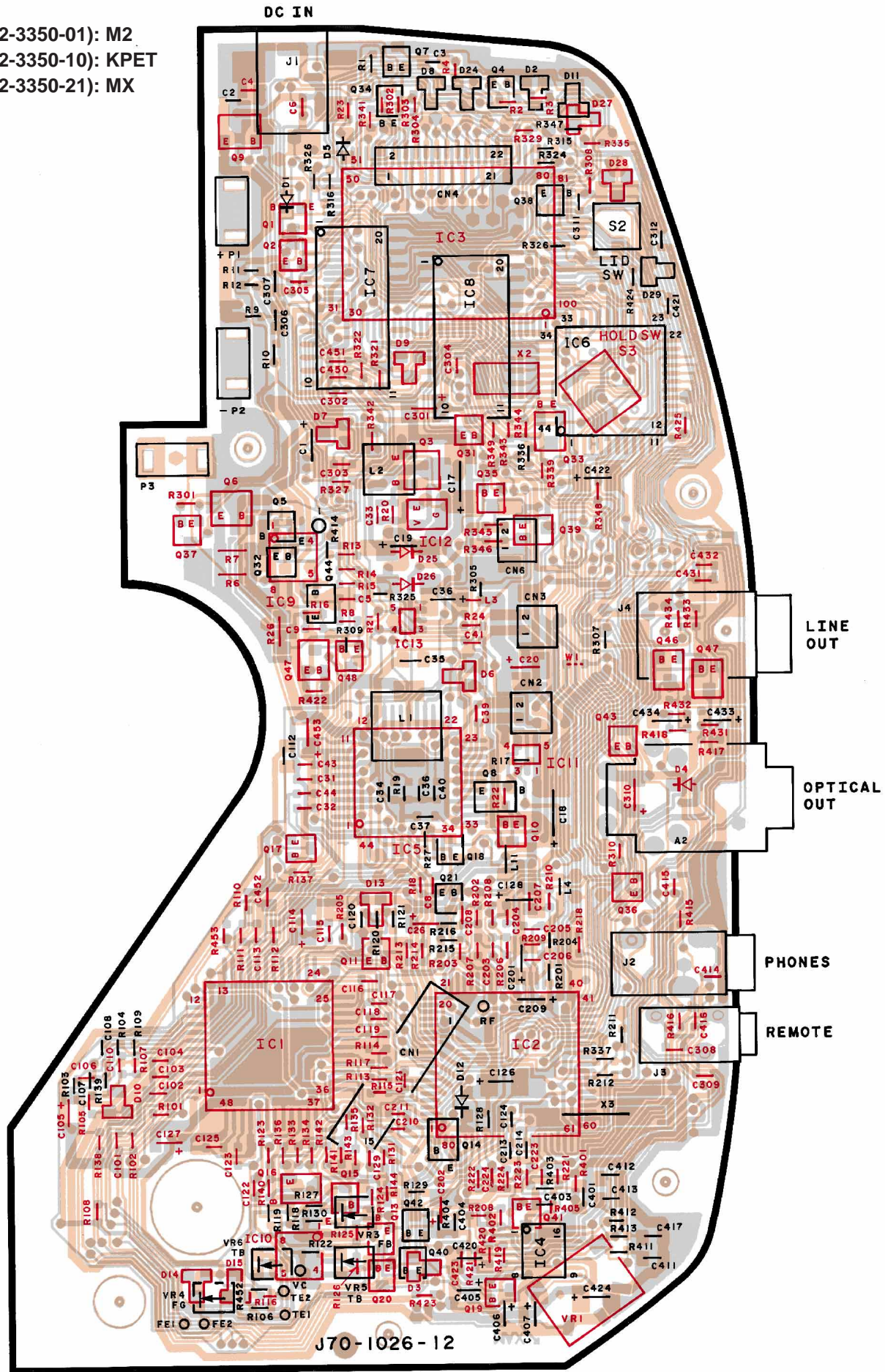


Check-lands and alignment point



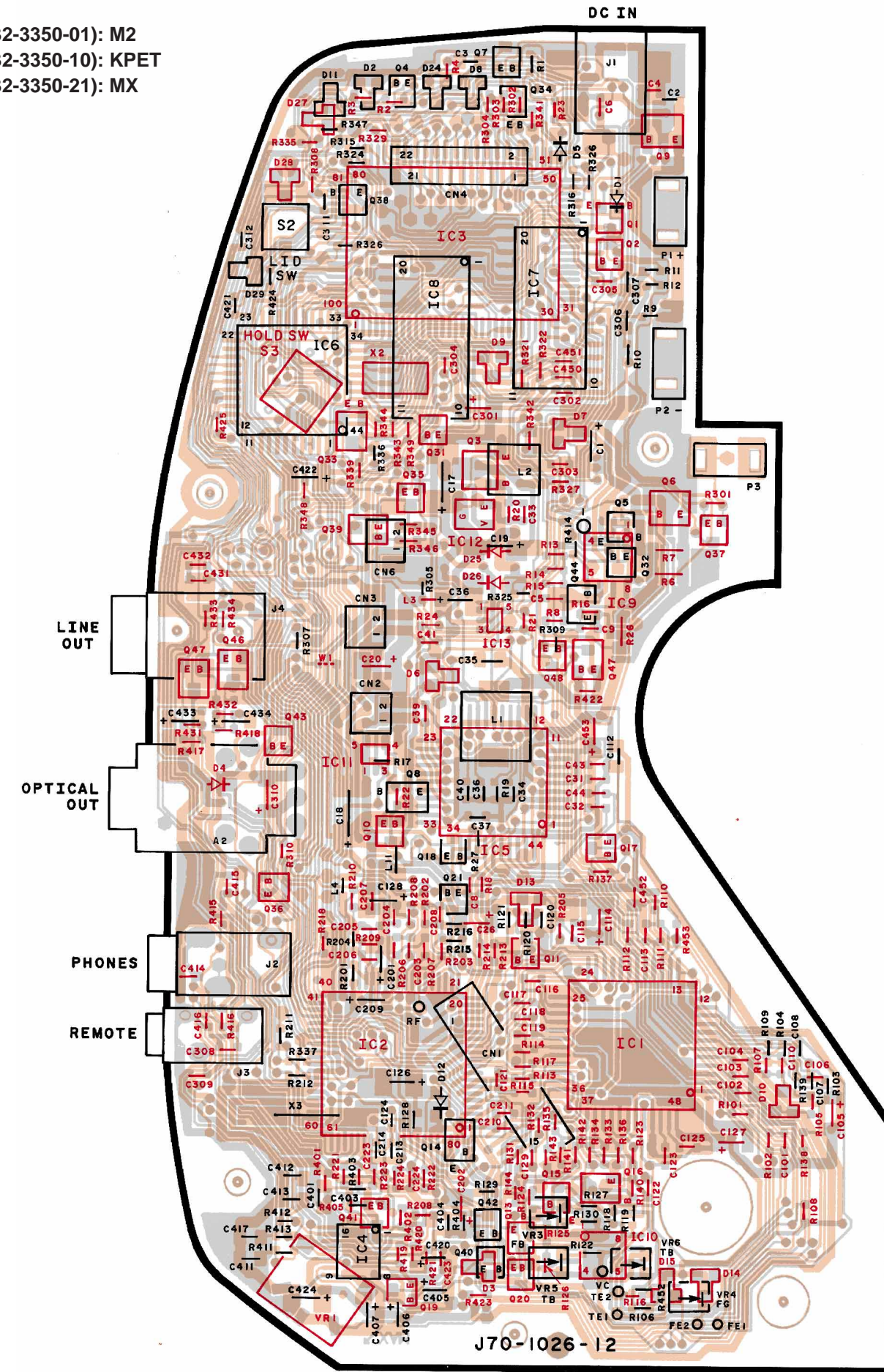
PC BOARD(Component side view)

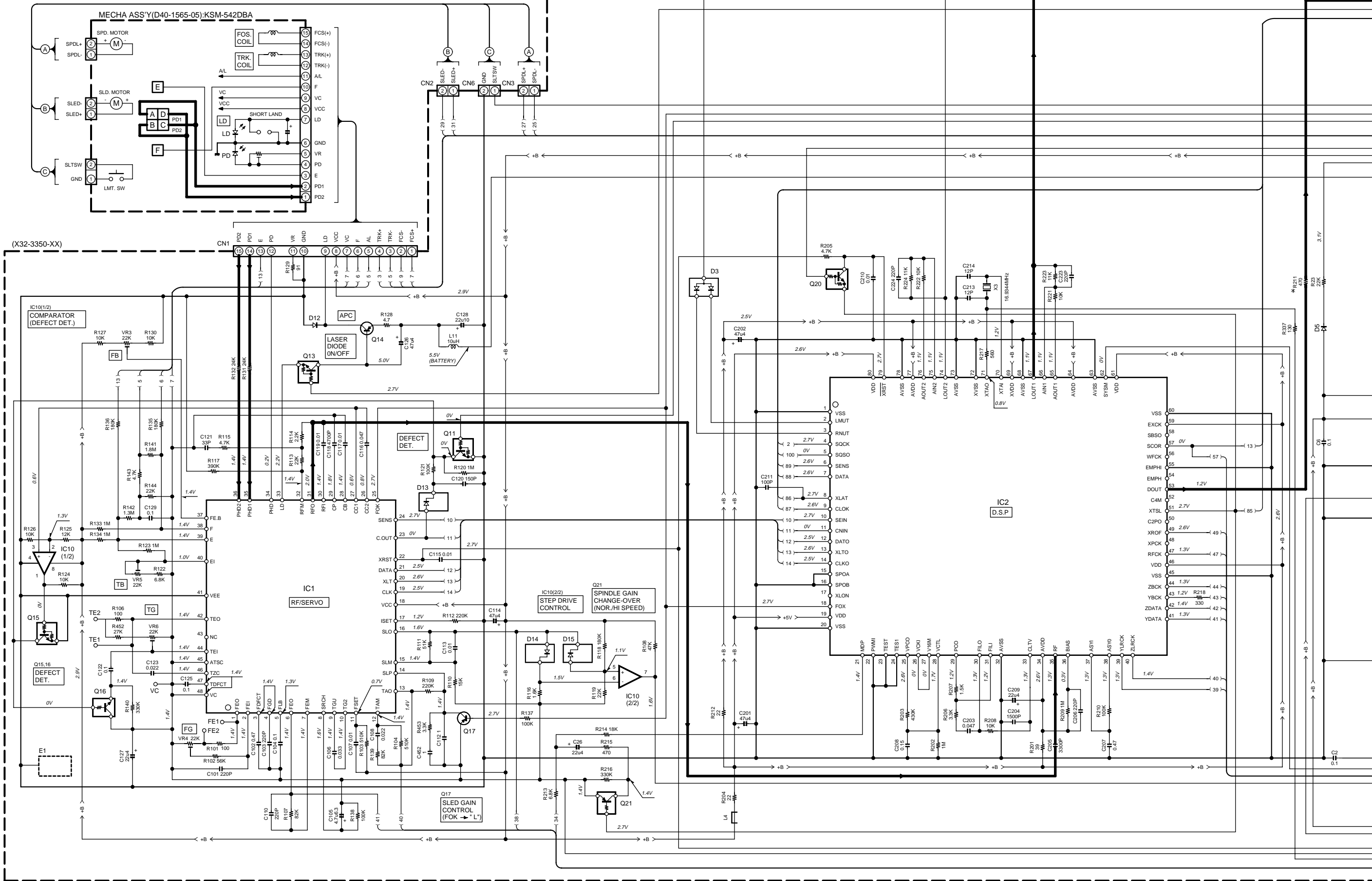
(X32-3350-01): M2
 (X32-3350-10): KPET
 (X32-3350-21): MX

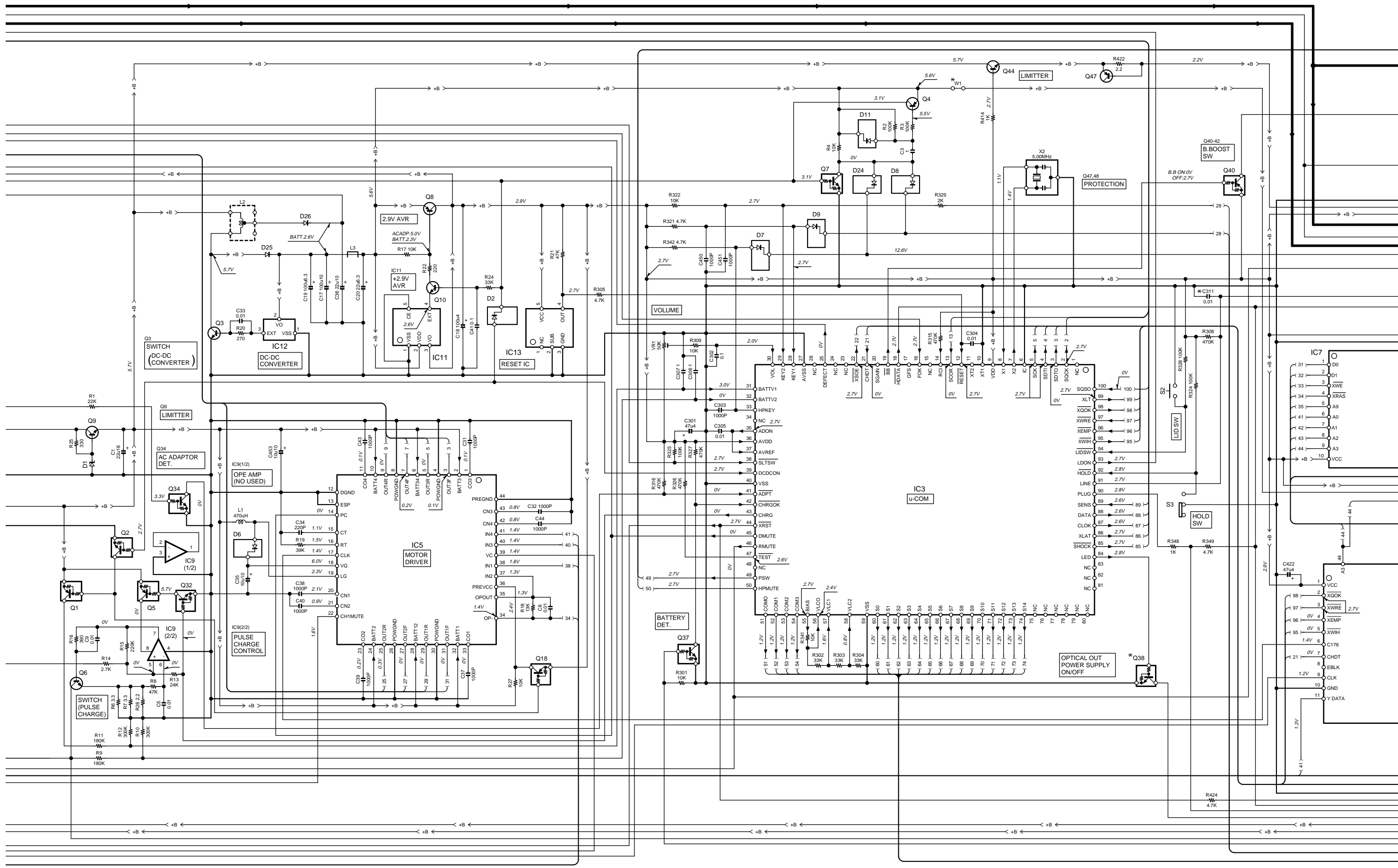


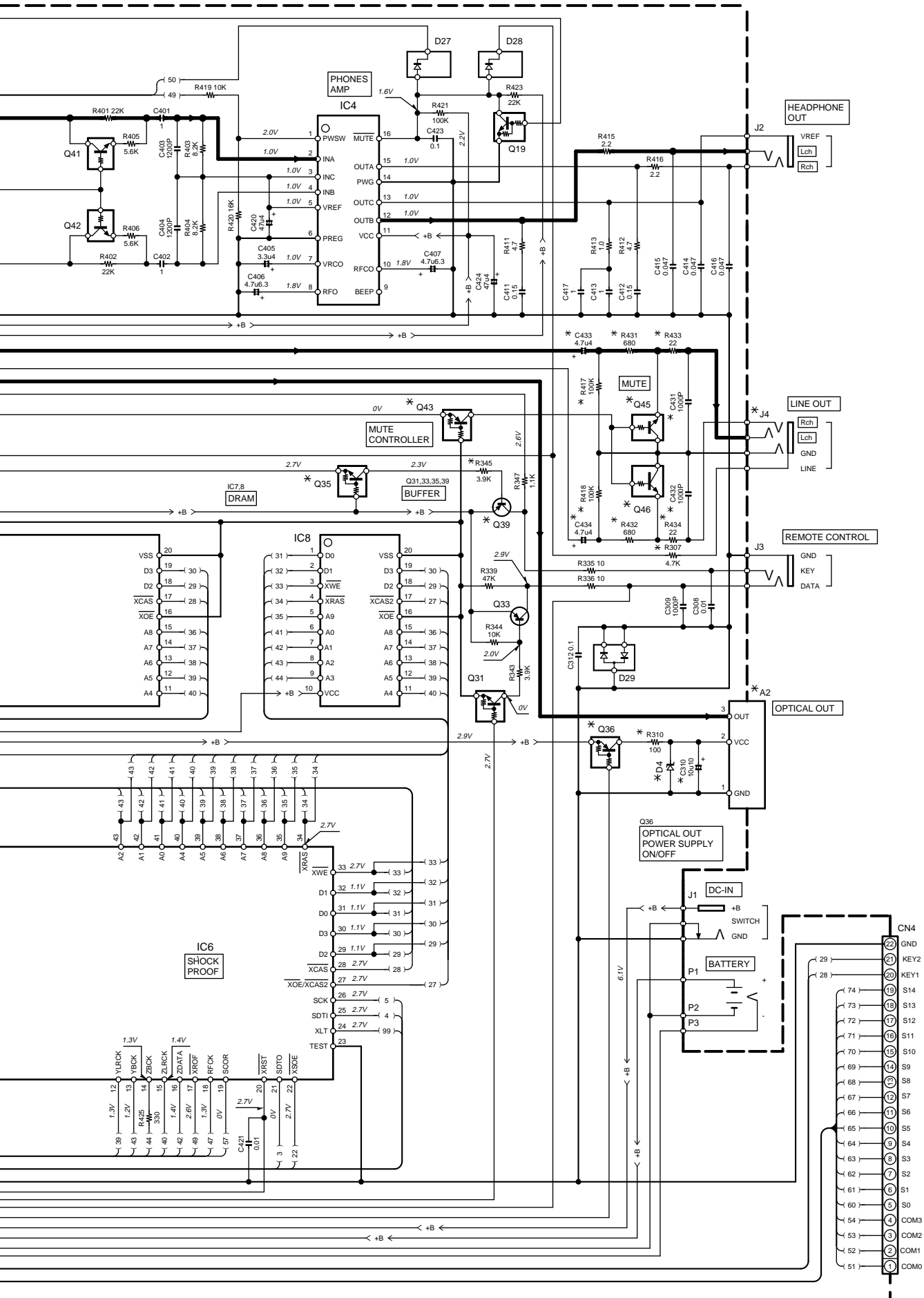
PC BOARD(Foil side view)

(X32-3350-01): M2
 (X32-3350-10): KPET
 (X32-3350-21): MX





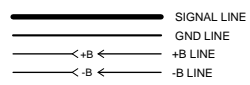




DPC-885 (X32-335X-XX)

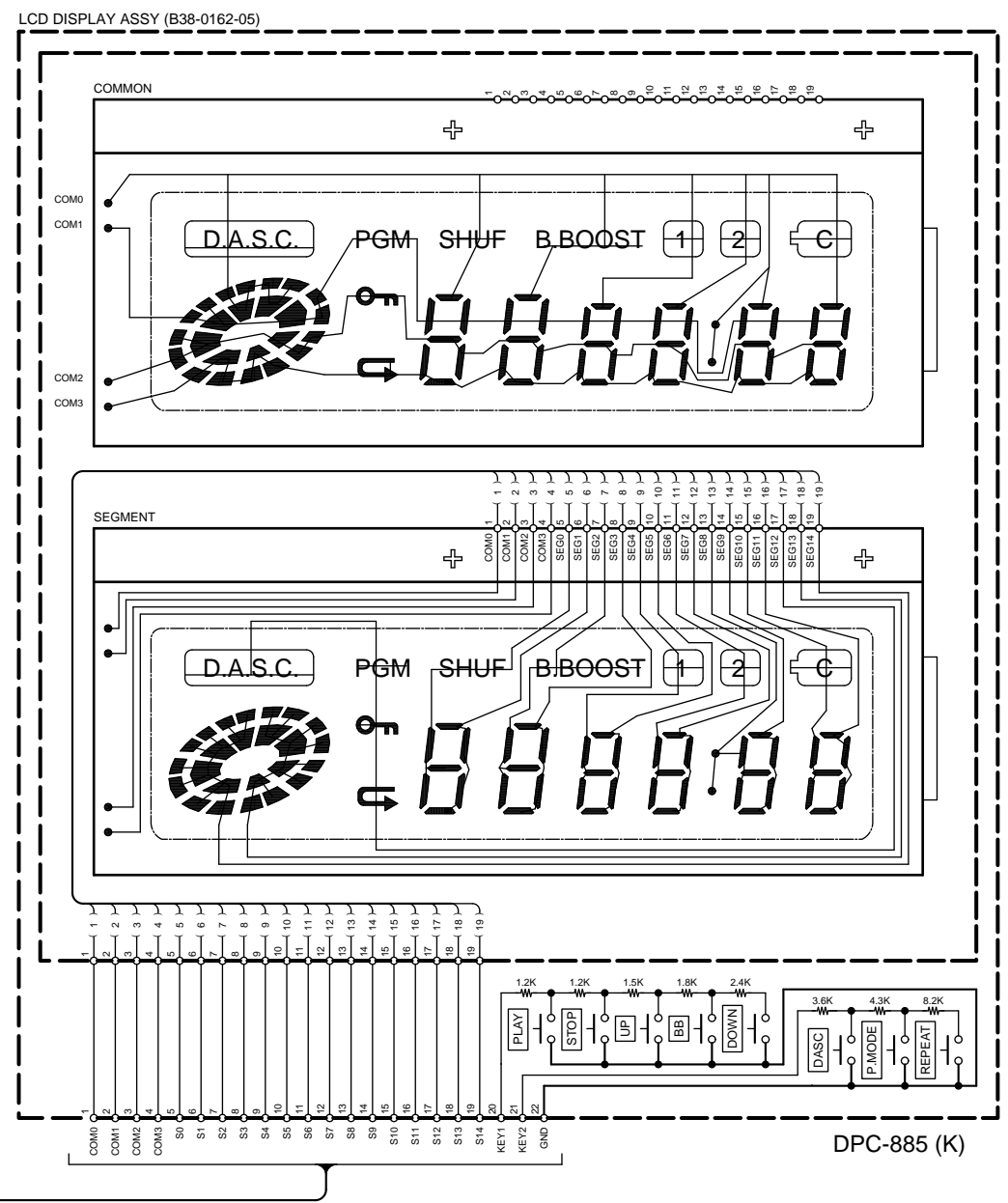
DESTINATION	ABB.	UNIT No.	A2	D4	C310	C311, 431-434	J4	Q35,39	Q36,38	Q43, 45,46	R211, 310	R345	R307,417, 418,431-434	W1
U.S.A.	K	0-10	NO	NO	NO	YES	YES	NO	NO	YES	NO	NO	YES	NO
GENERAL MARKET	M	0-21	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO
GENERAL MARKET	M	0-01	YES	YES	YES	NO	NO	YES	YES	NO	YES	YES	NO	YES

- IC1 : CXA1982Q
- IC2 : CXD3009Q
- IC3 : uPD78063GF-138
- IC4 : LA4800V
- IC5 : BH6504K
- IC6 : RLS356
- IC7,8 : MN41V4400TT-08 or MN41V4400TT-07
- IC9 : NJM2904M
- IC10 : NJM2903M
- IC11 : RN5RG29AA-TR
- IC12 : XC6383B301MR
- IC13 : PST9124NR
- Q1,5,40,43 : DTA124EUA
- Q2,7,11,15,19,20,31, 32,34,35,38,48 : DTC124EUA
- Q3 : 2SD2098(R,S)
- Q4,17,47 : 2SA1576A(R,S)
- Q6,9,44 : 2SD2153(V,W)
- Q8 : 2SB1424(Q,R)
- Q10 : 2SC4081(R,S)
- Q13,37,41,42 : DTC114TUA
- Q14,33,39 : 2SB970
- Q16,45,46 : DTC323TK
- Q18,21 : DTA114TUA
- Q36 : DTA114EUA
- D1 : UDZ5.1B
- D2,6,11,13-15,27,28 : RB451F
- D3 : DAP202U
- D4 : UDZ3.0B
- D5,12 : MA111
- D7-9,24 : RB450F
- D25 : U2FWJ44N
- D26 : MBRA130L
- D29 : DA204U

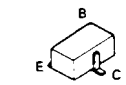


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

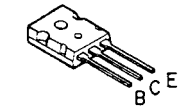
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.



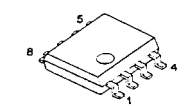
DTC323TK
2SB970
2SC4081



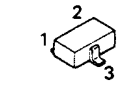
2SD2153



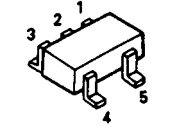
NJM2903M
NJM2904M



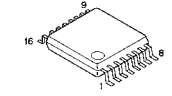
DAP202U
DA204U
RB451F



PST9124NR

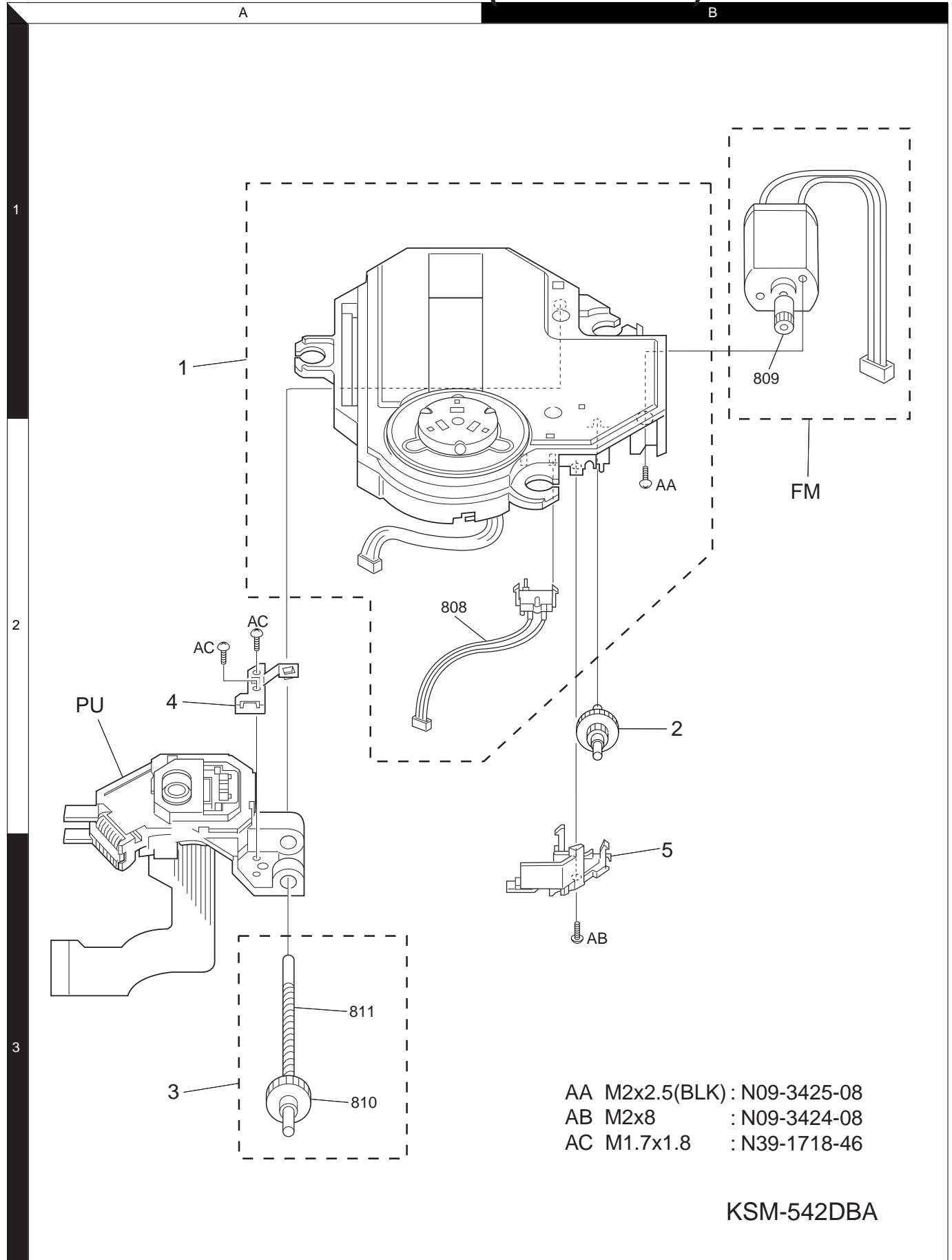


LA4800V



DPC-885 (K)

EXPLODED VIEW (MECHANISM)

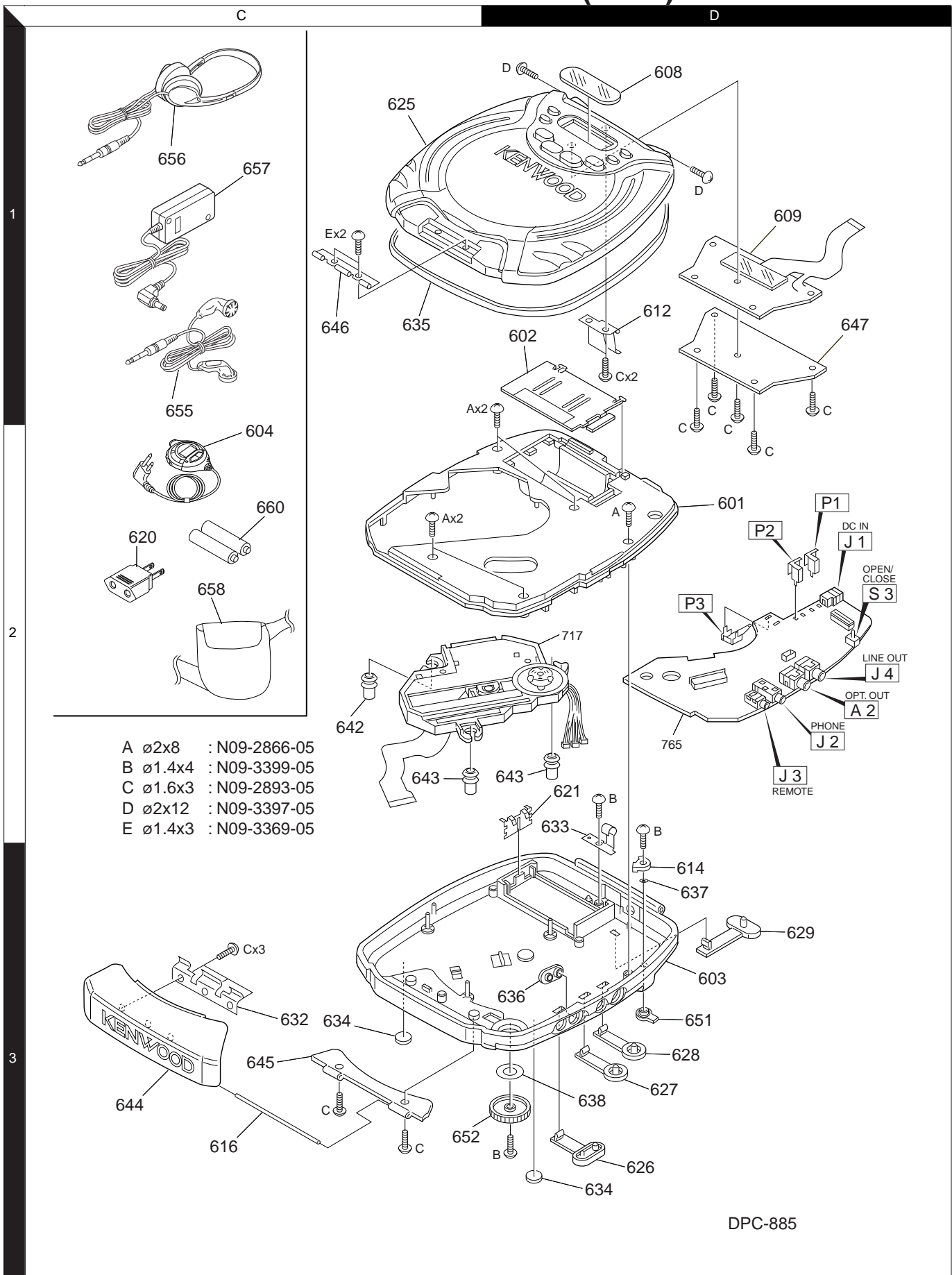


AA M2x2.5(BLK) : N09-3425-08
 AB M2x8 : N09-3424-08
 AC M1.7x1.8 : N39-1718-46

KSM-542DBA

DPC-885

EXPLODED VIEW (UNIT)



* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
DPC-885						
601	2D		A02-1361-11	PLASTIC CABINET		
602	1D		A09-0381-13	BATTERY COVER		
603	3D		A10-3380-11	CHASSIS	M2	
603	3D	*	A10-3381-11	CHASSIS	KPMTEX	
604	2C	*	A70-1163-05	REMOTE CONTROLLER ASSY	MX	
604	2C	*	A70-1164-05	REMOTE CONTROLLER ASSY	KPTE	
608	1D	*	B10-2397-04	FRONT GLASS		
609	1D	*	B38-0162-05	LCD DISPLAY ASSY		
-			B46-0100-40	WARRANTY CARD	TEX	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0328-03	WARRANTY CARD	K	
-		*	B46-0336-03	WARRANTY CARD	P	
-		*	B58-1583-00	CAUTION CARD		
-		*	B60-3387-00	INSTRUCTION MANUAL(TAIWANESE)	M2	
-		*	B60-3389-00	INSTRUCTION MANUAL(ENGLISH)	KPM2TX	
-		*	B60-3391-00	INSTRUCTION MANUAL(FRENCH)	PE	
-		*	B60-3392-00	INSTRUCTION MANUAL(GERMAN)	E	
-		*	B60-3393-00	INSTRUCTION MANUAL(DUTCH)	E	
-		*	B60-3394-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		*	B60-3395-00	INSTRUCTION MANUAL(SPANISH)	ME	
612	1D		D10-3749-04	ARM ASSY		
614	3D		D10-3752-14	LEVER		
616	3C		D21-1883-04	SHAFT		
620	1C		E03-0115-05	AC PLUG ADAPTER	M	
621	2D		E23-1746-04	TERMINAL		
625	1C	*	F07-1619-11	COVER	KP	
625	1C	*	F07-1620-11	COVER	MTEX	
626	3D		F09-0132-04	CAP		
627	3D		F09-0134-04	CAP	M2	
628	3D	*	F09-0133-04	CAP	KPMTEX	
629	3D		F09-0135-04	CAP		
632	3C		G02-1638-04	FLAT SPRING		
633	2D		G02-1647-04	FLAT SPRING		
634	3C,3D		G13-0552-04	CUSHION		
635	1D		G53-0072-14	PACKING		
636	3D		G53-0073-04	PACKING		
637	3D		G53-0074-05	O RING		
638	3D		G53-0075-05	O RING		
-			H25-0336-04	PROTECTION BAG		
-			H25-1588-04	PROTECTION BAG		
-			H50-2630-03	ITEM CARTON CASE	KP	
-		*	H50-2631-03	ITEM CARTON CASE	MX	
-		*	H50-2632-03	ITEM CARTON CASE	M2	
-		*	H50-2733-03	ITEM CARTON CASE	TE	
-		*	H60-0626-04	OUTER CARTON CASE	KPM	
-		*	H60-0626-04	OUTER CARTON CASE	TEX	
-		*	H60-0627-04	OUTER CARTON CASE	M2	
642	2C		J02-1161-05	INSULATOR		
643	2C		J02-1199-05	INSULATOR		
644	3C		J19-5841-03	HOLDER		

L : Scandinavia K : USA P : Canada R : Mexico M2 : Hongkong
Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany
Y : AAFES(Europe) X : Australia M : Other Areas

⚠ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
645	3C		J19-5842-04	HOLDER		
646	1C		J21-6511-04	MOUNTING HARDWARE		
647	1D		J21-6512-04	MOUNTING HARDWARE		
651	3D		K29-6767-04	KNOB		
652	3C		K29-6768-04	KNOB		
655	2C		W01-0923-05	STEREO HEADPHONE	M2	
656	1C		W01-0940-05	STEREO HEADPHONE	KPMTEX	
657	1C	*	W08-0658-05	AC ADAPTER	E	
657	1C	*	W08-0659-05	AC ADAPTER	T	
657	1C	*	W08-0660-05	AC ADAPTER	X	
657	1C	*	W08-0667-05	AC ADAPTER	M	
657	1C	*	W09-1251-05	AC ADAPTOR	KP	
658	2C		W01-0939-05	CARRYING CASE		
660	2C		W09-1237-05	RECHARGEABLE BATTERY		
CD PLAYER UNIT (X32-3350-01)						
C1			C92-0038-05	CHIP-ELE	22UF	16WV
C2			CK73GB1C104K	CHIP C	0.10UF	K
C3			CK73FF1C105Z	CHIP C	1.0UF	Z
C4			CK73GB1C104K	CHIP C	0.10UF	K
C5			CK73GB1E103K	CHIP C	0.010UF	K
C6			CK73GB1C104K	CHIP C	0.10UF	K
C8 ,9			CK73GB1E103K	CHIP C	0.010UF	K
C17			C92-0158-05	TANTALUM CAPACITOR		
C18			C92-0157-05	CHIP TAN	100UF	M
C19			C92-1371-05	ELECTRO	100UF	6.3WV
C20			C92-0148-05	TANTALUM CAPACITOR		
C26			C92-0623-05	CHIP TAN	22UF	4WV
C31 ,32			CK73GB1H102K	CHIP C	1000PF	K
C33			CK73GB1E103K	CHIP C	0.010UF	K
C34			CK73GB1H221K	CHIP C	220PF	K
C35			C92-0628-05	CHIP-TAN	10UF	10WV
C36			C92-0633-05	CHIP-TAN	22UF	10WV
C37 -40			CK73GB1H102K	CHIP C	1000PF	K
C41			CK73GB1C104K	CHIP C	0.10UF	K
C43 ,44			CK73GB1H102K	CHIP C	1000PF	K
C101			CK73GB1H221K	CHIP C	220PF	K
C102			CK73FF1C474Z	CHIP C	0.47UF	Z
C103			CK73GB1H221K	CHIP C	220PF	K
C104			CK73GB1C104K	CHIP C	0.10UF	K
C105			C92-0507-05	CHIP-TAN	4.7UF	6.3WV
C106			CK73GB1C333K	CHIP C	0.033UF	K
C107			CK73GB1E103K	CHIP C	0.010UF	K
C108			CK73GB1E223K	CHIP C	0.022UF	K
C110			CK73GB1H221K	CHIP C	220PF	K
C112			CK73FF1C105Z	CHIP C	1.0UF	Z
C113			CK73GB1E103K	CHIP C	0.010UF	K
C114			C92-0619-05	CHIP TAN	47UF	4WV
C115			CK73GB1E103K	CHIP C	0.010UF	K
C116			CK73GB1C473K	CHIP C	0.047UF	K
C117			CK73GB1E103K	CHIP C	0.010UF	K
C118			CK73GB1H472K	CHIP C	4700PF	K
C119			CK73GB1E103K	CHIP C	0.010UF	K
C120			CC73GCH1H151J	CHIP C	150PF	J
C121			CC73GCH1H330J	CHIP C	33PF	J

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PARTS LIST

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C122			CK73GB1C104K	CHIP C 0.10UF K		
C123			CK73GB1E223K	CHIP C 0.022UF K		
C125			CK73GB1C104K	CHIP C 0.10UF K		
C126			C92-0619-05	CHIP TAN 47UF 4WV		
C127			C92-0623-05	CHIP TAN 22UF 4WV		
C128			C92-0633-05	CHIP-TAN 22UF 10WV		
C129			CK73GB1C104K	CHIP C 0.10UF K		
C201,202			C92-0619-05	CHIP TAN 47UF 4WV		
C203			CK73GB1C473K	CHIP C 0.047UF K		
C204			CK73GB1H152K	CHIP C 1500PF K		
C205			CK73GB1H332K	CHIP C 3300PF K		
C206			CK73GB1H221K	CHIP C 220PF K		
C207			CK73FF1C474Z	CHIP C 0.47UF Z		
C208			CK73GB1C104K	CHIP C 0.10UF K		
C209			C92-0623-05	CHIP TAN 22UF 4WV		
C210			CK73GB1E103K	CHIP C 0.010UF K		
C211			CC73GCH1H101J	CHIP C 100PF J		
C213,214			CC73GCH1H120J	CHIP C 12PF J		
C223,224			CK73GB1H221K	CHIP C 220PF K		
C301			C92-0619-05	CHIP TAN 47UF 4WV		
C302			CK73GB1C104K	CHIP C 0.10UF K		
C303			CK73GB1H102K	CHIP C 1000PF K		
C304,305			CK73GB1E103K	CHIP C 0.010UF K		
C306,307			CK73FF1C105Z	CHIP C 1.0UF Z		
C308			CK73GB1E103K	CHIP C 0.010UF K		
C309			CK73GB1H102K	CHIP C 1000PF K		
C310			C92-0628-05	CHIP-TAN 10UF 10WV	M2	
C311			CK73GB1E103K	CHIP C 0.010UF K	KPMTEX	
C312			CK73GB1C104K	CHIP C 0.10UF K		
C401,402			CK73FF1C105Z	CHIP C 1.0UF Z		
C403,404			CK73GB1H122K	CHIP C 1200PF K		
C405			C92-0006-05	CHIP-TAN 3.3UF 4WV		
C406,407			C92-0507-05	CHIP-TAN 4.7UF 6.3WV		
C411,412			CK73FF1E154Z	CHIP C 0.15UF Z		
C413			CK73FF1C105Z	CHIP C 1.0UF Z		
C414-416			CK73GB1C473K	CHIP C 0.047UF K		
C417			CK73FF1C105Z	CHIP C 1.0UF Z		
C420			C92-0619-05	CHIP TAN 47UF 4WV		
C421			CK73GB1E103K	CHIP C 0.010UF K		
C422			C92-0619-05	CHIP TAN 47UF 4WV		
C423			CK73GB1C104K	CHIP C 0.10UF K		
C424			C92-0619-05	CHIP TAN 47UF 4WV		
C431,432			CK73GB1H102K	CHIP C 1000PF K	KPMTEX	
C433,434			C92-0507-05	CHIP-TAN 4.7UF 6.3WV	KPMTEX	
C450,451			CK73GB1H102K	CHIP C 1000PF K		
C452			CK73FF1C105Z	CHIP C 1.0UF Z		
C453			C92-0628-05	CHIP-TAN 10UF 10WV		
CN1			E40-9941-05	FLAT CABLE CONNECTOR		
CN2			E40-8170-05	PIN ASSY		
CN3			E40-5538-05	PIN ASSY		
CN4			E40-8138-05	FLAT CABLE CONNECTOR		
CN6			E40-5621-05	PIN ASSY		
J1			E03-0139-15	DC JACK		
J2			E11-0371-05	MINIATURE PHONE JACK(3P GREEN)		
J3			E11-0278-05	MINIATURE PHONE JACK(3P REMOTE)		

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J4			E11-0244-15	MINIATURE PHONE JACK(4P)	KPMTEX	
P1,2	2D		E23-1747-04	TERMINAL		
P3	2D		E23-1748-04	TERMINAL		
L1		*	L33-0396-05	CHOKE COIL		
L2			L33-0563-15	CHOKE COIL		
L3			L92-0075-05	CHIP FERRITE		
L4			L92-0076-05	CHIP FERRITE		
L11			L40-1001-39	SMALL FIXED INDUCTOR(10UH,K)		
X2			L78-0661-05	RESONATOR (5.00MHz)		
X3			L77-2178-05	CRYSTAL RESONATOR(16.9344MHz)		
R1			RK73GB1J223J	CHIP R 22K J 1/16W		
R2 ,3			RK73GB1J104J	CHIP R 100K J 1/16W		
R4			RK73GB1J103J	CHIP R 10K J 1/16W		
R6 ,7			RK73EB2B3R3K	CHIP R 3.3 K 1/8W		
R8			RK73GB1J474J	CHIP R 470K J 1/16W		
R9			RK73GB1J184J	CHIP R 180K J 1/16W		
R10			RK73GB1J304J	CHIP R 300K J 1/16W		
R11			RK73GB1J184J	CHIP R 180K J 1/16W		
R12			RK73GB1J304J	CHIP R 300K J 1/16W		
R13			RK73GB1J243J	CHIP R 24K J 1/16W		
R14			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R15			RK73GB1J224J	CHIP R 220K J 1/16W		
R16			RK73GB1J391J	CHIP R 390 J 1/16W		
R17			RK73GB1J103J	CHIP R 10K J 1/16W		
R18			RK73GB1J133J	CHIP R 13K J 1/16W		
R19			RK73GB1J393J	CHIP R 39K J 1/16W		
R20			RK73GB1J271J	CHIP R 270 J 1/16W		
R21			RK73GB1J473J	CHIP R 47K J 1/16W		
R22			RK73GB1J221J	CHIP R 220 J 1/16W		
R23			RK73GB1J223J	CHIP R 22K J 1/16W		
R24			RK73GB1J333J	CHIP R 33K J 1/16W		
R25			RK73GB1J331J	CHIP R 330 J 1/16W		
R26			RK73EB2B2R2K	CHIP R 2.2 K 1/8W		
R27			RK73GB1J103J	CHIP R 10K J 1/16W		
R101			RK73GB1J101J	CHIP R 100 J 1/16W		
R102			RK73GB1J563J	CHIP R 56K J 1/16W		
R103,104			RK73GB1J514J	CHIP R 510K J 1/16W		
R106			RK73GB1J101J	CHIP R 100 J 1/16W		
R107			RK73GB1J823J	CHIP R 82K J 1/16W		
R108			RK73GB1J473J	CHIP R 47K J 1/16W		
R109			RK73GB1J124J	CHIP R 120K J 1/16W		
R110			RK73GB1J153J	CHIP R 15K J 1/16W		
R111			RK73GB1J513J	CHIP R 51K J 1/16W		
R112			RK73GB1J224J	CHIP R 220K J 1/16W		
R113			RK73GB1J223J	CHIP R 22K J 1/16W		
R114			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R115			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R116			RK73GB1J162J	CHIP R 1.6K J 1/16W		
R117			RK73GB1J394J	CHIP R 390K J 1/16W		
R118			RK73GB1J184J	CHIP R 180K J 1/16W		
R119			RK73GB1J223J	CHIP R 22K J 1/16W		
R120			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R121			RK73GB1J104J	CHIP R 100K J 1/16W		
R122			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R123			RK73GB1J105J	CHIP R 1.0M J 1/16W		

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R124			RK73GB1J103J	CHIP R 10K J 1/16W		
R125			RK73GB1J123J	CHIP R 12K J 1/16W		
R126,127			RK73GB1J103J	CHIP R 10K J 1/16W		
R128			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
R129			RK73GB1J910J	CHIP R 91 J 1/16W		
R130			RK73GB1J103J	CHIP R 10K J 1/16W		
R131,132			RK73GB1J243J	CHIP R 24K J 1/16W		
R133,134			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R135,136			RK73GB1J184J	CHIP R 180K J 1/16W		
R137,138			RK73GB1J104J	CHIP R 100K J 1/16W		
R139			RK73GB1J823J	CHIP R 82K J 1/16W		
R140			RK73GB1J334J	CHIP R 330K J 1/16W		
R141	*		RK73GB1J185K	CHIP R 1.8M K 1/16W		
R142			RK73GB1J135K	CHIP R 1.3M K 1/16W		
R143			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R144			RK73GB1J223J	CHIP R 22K J 1/16W		
R201			RK73GB1J390J	CHIP R 39 J 1/16W		
R202			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R203			RK73GB1J434J	CHIP R 430K J 1/16W		
R204			RK73GB1J220J	CHIP R 22 J 1/16W		
R205			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R206			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R207			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R208			RK73GB1J103J	CHIP R 10K J 1/16W		
R209			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R210			RK73GB1J104J	CHIP R 100K J 1/16W		
R211			RK73GB1J471J	CHIP R 470 J 1/16W	M2	
R212			RK73GB1J220J	CHIP R 22 J 1/16W		
R213			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R214			RK73GB1J183J	CHIP R 18K J 1/16W		
R215			RK73GB1J471J	CHIP R 470 J 1/16W		
R216			RK73GB1J334J	CHIP R 330K J 1/16W		
R217			RK73GB1J561J	CHIP R 560 J 1/16W		
R218			RK73GB1J331J	CHIP R 330 J 1/16W		
R221,222			RK73GB1J103J	CHIP R 10K J 1/16W		
R223,224			RK73GB1J113J	CHIP R 11K J 1/16W		
R301			RK73GB1J103J	CHIP R 10K J 1/16W		
R302-304			RK73GB1J333J	CHIP R 33K J 1/16W		
R305			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R307			RK73GB1J472J	CHIP R 4.7K J 1/16W	KPMTEX	
R308			RK73GB1J474J	CHIP R 470K J 1/16W		
R309			RK73GB1J103J	CHIP R 10K J 1/16W		
R310			RK73GB1J101J	CHIP R 100 J 1/16W	M2	
R315,316			RK73GB1J474J	CHIP R 470K J 1/16W		
R321			R92-1762-05	CHIP R 4.7K F 1/10W		
R322			RK73GB1J103J	CHIP R 10K J 1/16W		
R324,325			RK73GB1J104J	CHIP R 100K J 1/16W		
R326,327			RK73GB1J474J	CHIP R 470K J 1/16W		
R328			RK73GB1J104J	CHIP R 100K J 1/16W		
R329			RK73GB1J202J	CHIP R 2.0K J 1/16W		
R335,336			RK73GB1J100J	CHIP R 10 J 1/16W		
R337			RK73GB1J131J	CHIP R 130 J 1/16W		
R339			RK73GB1J473J	CHIP R 47K J 1/16W		
R341			RK73GB1J103J	CHIP R 10K J 1/16W		
R342			R92-1762-05	CHIP R 4.7K F 1/10W		

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R343			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R344			RK73GB1J103J	CHIP R 10K J 1/16W		
R345			RK73GB1J392J	CHIP R 3.9K J 1/16W	MX	
R347			RK73GB1J112J	CHIP R 1.1K J 1/16W		
R348			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R349			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R401,402			RK73GB1J183J	CHIP R 18K J 1/16W		
R403,404			RK73GB1J822J	CHIP R 8.2K J 1/16W		
R405,406			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R411,412			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
R413			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R414			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R415,416			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R417,418			RK73GB1J104J	CHIP R 100K J 1/16W	KPMTEX	
R419			RK73GB1J103J	CHIP R 10K J 1/16W		
R420			RK73GB1J163J	CHIP R 16K J 1/16W		
R421			RK73GB1J104J	CHIP R 100K J 1/16W		
R422			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R423			RK73GB1J223J	CHIP R 22K J 1/16W		
R424			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R425			RK73GB1J331J	CHIP R 330 J 1/16W		
R431,432			RK73GB1J681J	CHIP R 680 J 1/16W	KPMTEX	
R433,434			RK73GB1J220J	CHIP R 22 J 1/16W	KPMTEX	
R452			RK73GB1J273J	CHIP R 27K J 1/16W		
R453			RK73GB1J332J	CHIP R 3.3K J 1/16W		
VR1			R31-0091-05	VARIABLE RESISTOR		
VR3 -6			R32-0018-05	SEMI FIXED VARIABLE RESISTOR		
W1			R92-1252-05	CHIP R 0 OHM	M2	
S2			S64-0032-05	LEVER SWITCH		
S3			S62-0035-05	SLIDE SWITCH		
D1			UDZ5.1B	ZENER DIODE		
D2			RB451F	DIODE		
D3			DAP202U	DIODE		
D4			UDZ3.0B	ZENER DIODE	M2	
D5			MA111	DIODE		
D6			RB451F	DIODE		
D7 -9			RB450F	DIODE		
D11			RB451F	DIODE		
D12			MA111	DIODE		
D13 -15			RB451F	DIODE		
D24			RB450F	DIODE		
D25			U2FWJ44N	DIODE		
D26			MBRA130L	DIODE		
D29			DA204U	DIODE		
IC1			CXA1982Q	ANALOGUE IC		
IC2			CXD3009Q	MOS-IC		
IC3			UPD78063GF-138	MI-COM IC		
IC4			LA4800V	ANALOGUE IC		
IC5			BH6504K	MOS-IC		
IC6			RL5C356	MOS-IC		
IC7 ,8			MN41V4400TT-07	MEMORY IC		
IC7 ,8			MN41V4400TT-08	MEMORY IC		
IC9			NJM2904M	IC(OP AMP X2)		
IC10			NJM2903M	IC(COMPARATOR X2)		

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PARTS LIST

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IC11			RN5RG29AA-TR	ANALOGUE IC		
IC12			XC6383B301MR	ANALOGUE IC		
IC13			PST9124NR	ANALOGUE IC		
Q1			DTA124EUA	DIGITAL TRANSISTOR		
Q2			DTC124EUA	DIGITAL TRANSISTOR		
Q3			2SD2098(R,S)	TRANSISTOR		
Q4			2SA1576A(R,S)	TRANSISTOR		
Q5			DTA124EUA	DIGITAL TRANSISTOR		
Q6			2SD2153(V,W)	TRANSISTOR		
Q7			DTC124EUA	DIGITAL TRANSISTOR		
Q8			2SB1424(Q,R)	TRANSISTOR		
Q9			2SD2153(V,W)	TRANSISTOR		
Q10			2SC4081(R,S)	TRANSISTOR		
Q11			DTC124EUA	DIGITAL TRANSISTOR		
Q13			DTC114TUA	DIGITAL TRANSISTOR		
Q14			2SB970	TRANSISTOR		
Q15			DTC124EUA	DIGITAL TRANSISTOR		
Q16			DTC323TK	DIGITAL TRANSISTOR		
Q17			2SA1576A(R,S)	TRANSISTOR		
Q18			DTA114TUA	DIGITAL TRANSISTOR		
Q19 ,20			DTC124EUA	DIGITAL TRANSISTOR	E	
Q21			DTA114TUA	DIGITAL TRANSISTOR		
Q31 ,32			DTC124EUA	DIGITAL TRANSISTOR		
Q33			2SB970	TRANSISTOR		
Q34			DTC124EUA	DIGITAL TRANSISTOR		
Q34 ,35			DTC124EUA	DIGITAL TRANSISTOR	KPT	
Q36			DTC124EUA	DIGITAL TRANSISTOR	MX	
Q37			DTA114EUA	DIGITAL TRANSISTOR	M2	
Q38			DTC114TUA	DIGITAL TRANSISTOR	M2	
			DTC124EUA	DIGITAL TRANSISTOR		
Q39			2SB970	TRANSISTOR		
Q40			DTA124EUA	DIGITAL TRANSISTOR		
Q41 ,42			DTC114TUA	DIGITAL TRANSISTOR		
Q43			DTA124EUA	DIGITAL TRANSISTOR		
Q44			2SD2153(V,W)	TRANSISTOR		
Q45 ,46			DTC323TK	DIGITAL TRANSISTOR	KPMTEX	
A2			W02-2527-05	ELECTRIC CIRCUIT MODULE	KPMTEX	
MECHANISM (D40-1565-05)						
1	1A		A10-3415-08	CHASSIS ASSY		
2	2B		D13-1858-08	GEAR		
3	3A		D19-0311-08	GEAR ASSY(SLED SCREW)		
4	2A		G02-1650-08	FLAT SPRING		
5	3B		J19-5898-08	HOLDER		
AA			N09-3425-08	SCREW 2X2.5		
AB			N09-3424-08	TAPPING SCREW 2X8		
AC			N39-1718-46	SCREW		
FM	2B		T42-0903-08	MOTOR ASSY		
PU	2A		T25-0072-08	OPTICAL PICKUP HEAD		

L : Scandinavia K : USA P : Canada R : Mexico M2 : Hongkong
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany
 Y : AAFES(Europe) X : Australia M : Other Areas

⚠ indicates safety critical components.

Note:
 Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6,Dogenzaka 1-ohome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Keswai Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 V Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB, United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Meachelssesteerweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sironi, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001499 074)

P.O.Box 504, 8 Ffyttee Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 37/12-37/24, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4,01 Level 4, Wisma Academy Lot 4A, Jalan 191 46300 Petaling Jaya Selangor Darul Ehsan Malaysia