

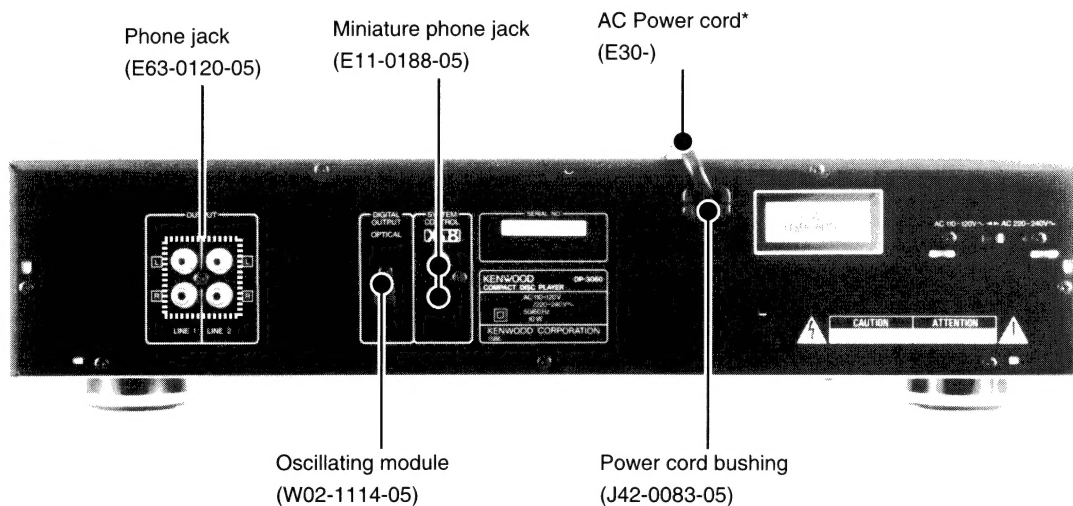
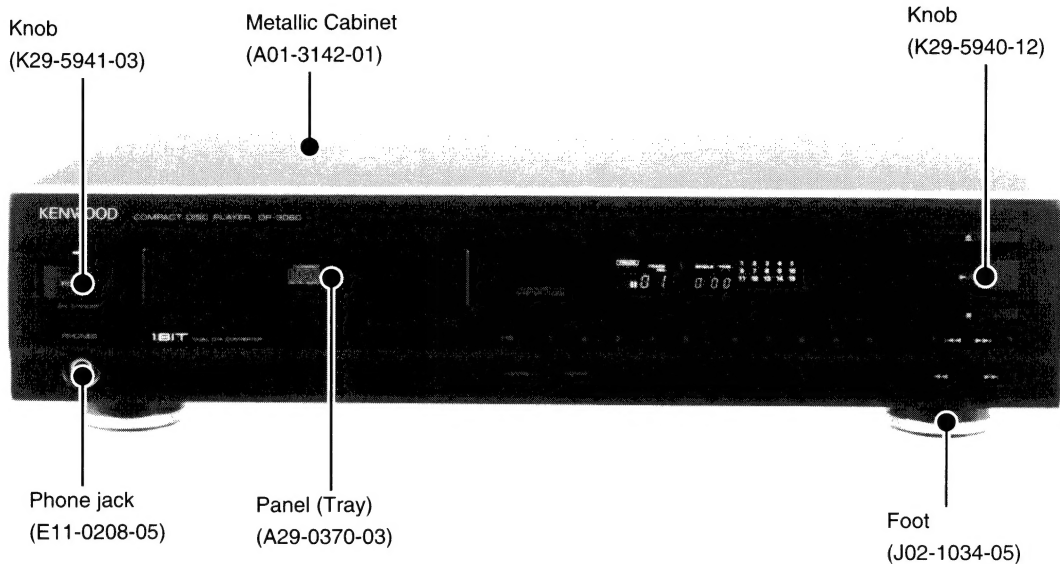
COMPACT DISC PLAYER

DP-3060

SERVICE MANUAL

KENWOOD

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B51-4947-00 (K) 2454



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

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

*Refer to parts list on page 20

DP-3060

CONTENTS/ACCESSORIES/CAUTION

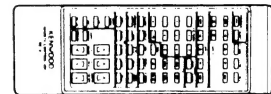
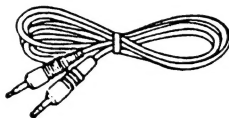
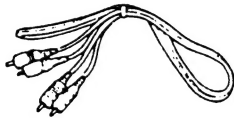
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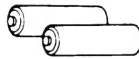
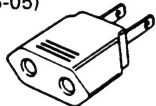
*Note : Refer to DP-7060 service manual (B51-4938-00) if you want to know more information of Semiconductor description.

ACCESSORIES

- Audio cord 1
(E30-0505-05)
- Cord with plug (System) 1
(E30-2733-05)
- Remote controller assy 1
(A70-0980-05)
- Battery cover
(A09-0170-08)



- AC plug adaptor 1
(E03-0115-05)
- Battery ("A" or "R06") 2
(-)



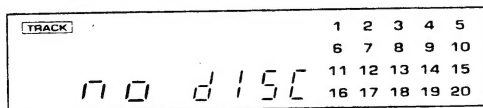
(Except for some areas.)
For the unit with a European AC
plug in areas other than Europe.

CAUTION

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. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



Beware of condensation

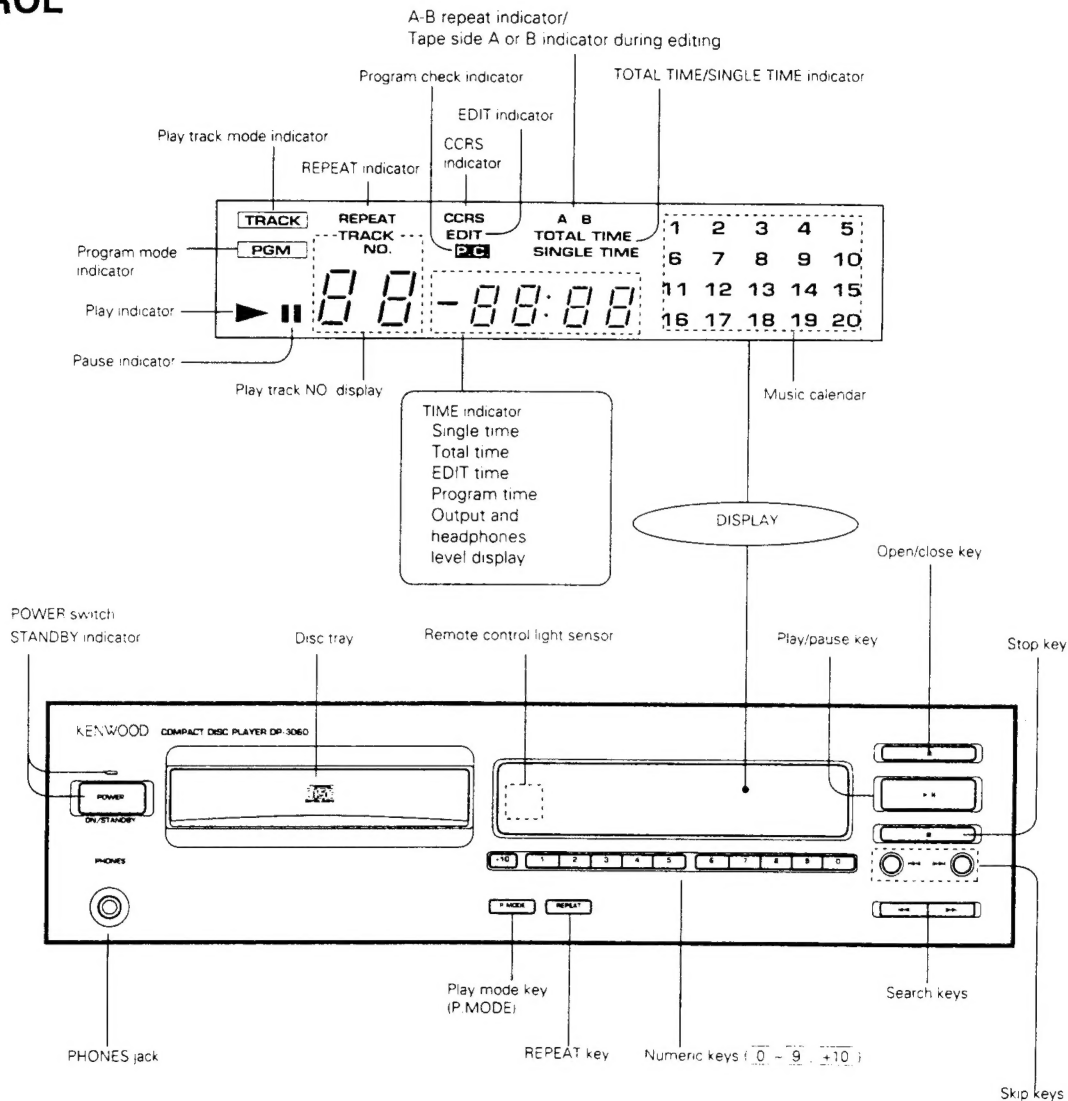
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

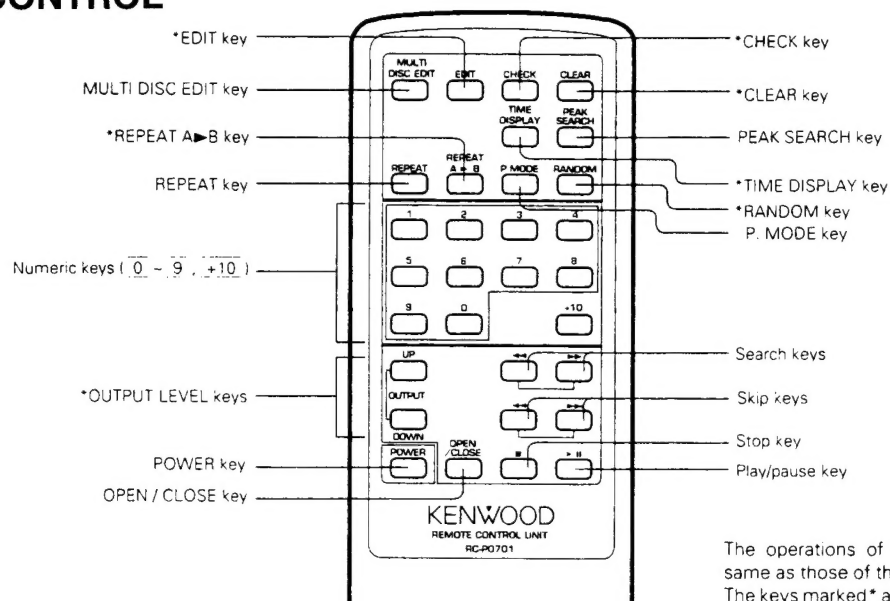
- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air - conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature or in conditions where condensation occurs easily.

CONTROL/REMOTE CONTROL OPERATION

CONTROL



REMOTE CONTROL



The operations of each key are the same as those of the keys on the unit. The keys marked * are provided only on the remote control unit.

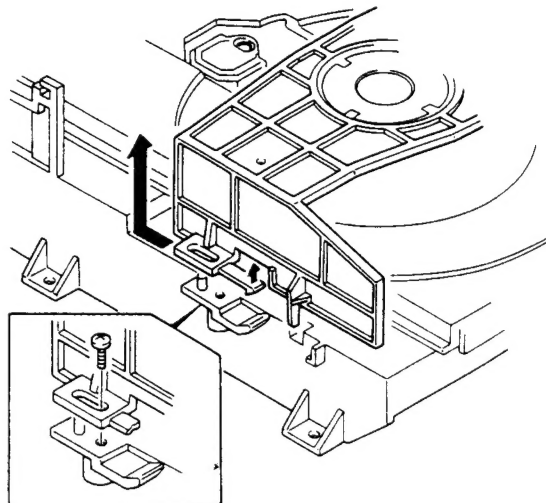
DP-3060

DISASSEMBLY FOR REPAIR

1. How to Remove Clamper

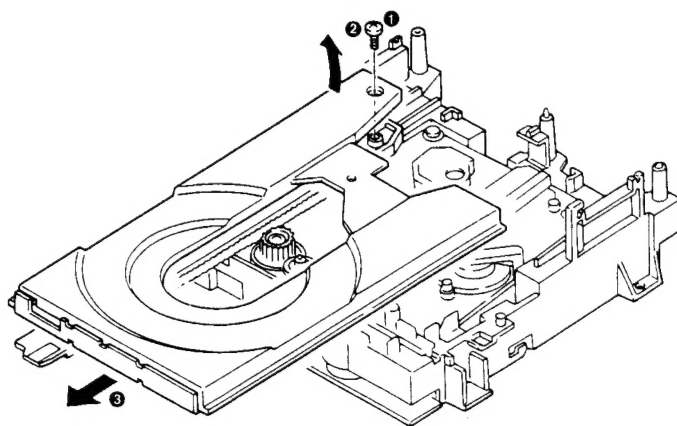
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it back-wards.
3. Lift the clamper ass'y.

Note : If broken catcher, use screw (2.6x8:N89-2608-46) to fix it.



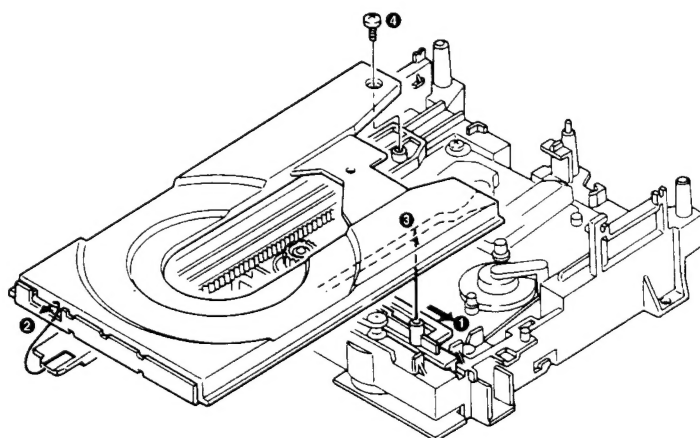
2. How to Remove Tray

1. Turn power switch off after tray is open.
2. Remove screw (1).
3. Lift the tray (2).
4. Slide the tray front-wards and remove it (3).



3. How to Mount Tray

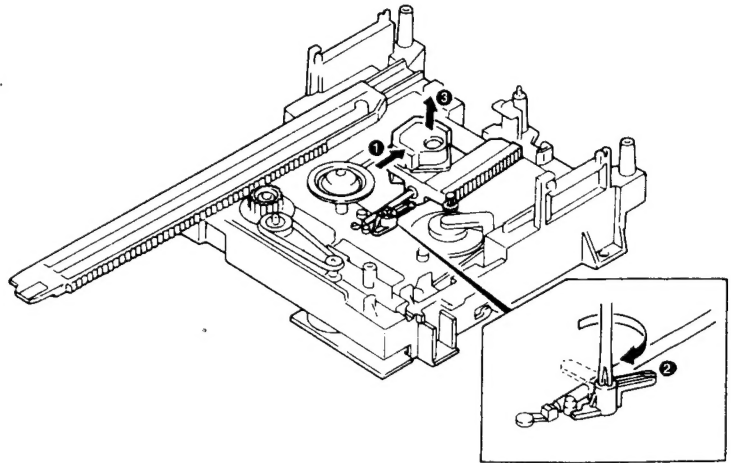
1. Slide slider fully right-wards and pull out tray gear front-wards (1).
2. Insert tray gear in slit of tray (2).
3. Set tray-back-groove to boss of slider (3).
4. Fix tray with screw (4).



DISASSEMBLY FOR REPAIR

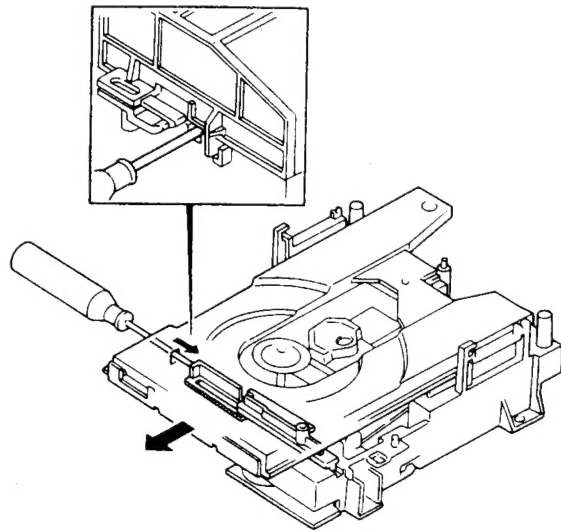
4. How to Replace Pickup

1. Remove clamber ass'y and set tray-open.
2. Move pickup at center position of its all travel(①).
3. Turn rod stopper (②) and lift pickup ass'y (③).



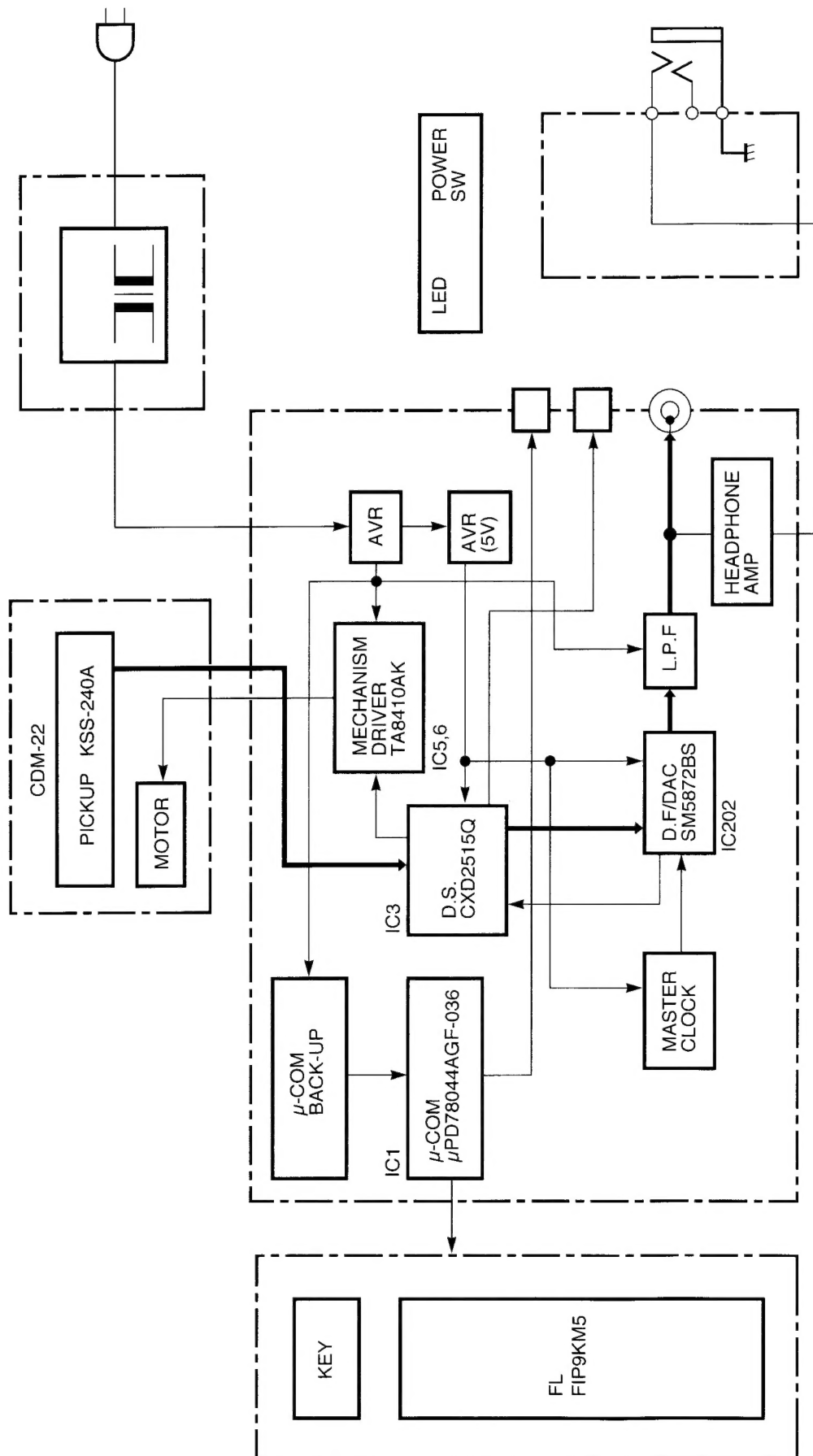
5. How to Open Tray when Tray Not Come Out

1. Insert screw driver to left-side hole of mechanism ass'y.
2. Push slider right-wards.



DP-3060

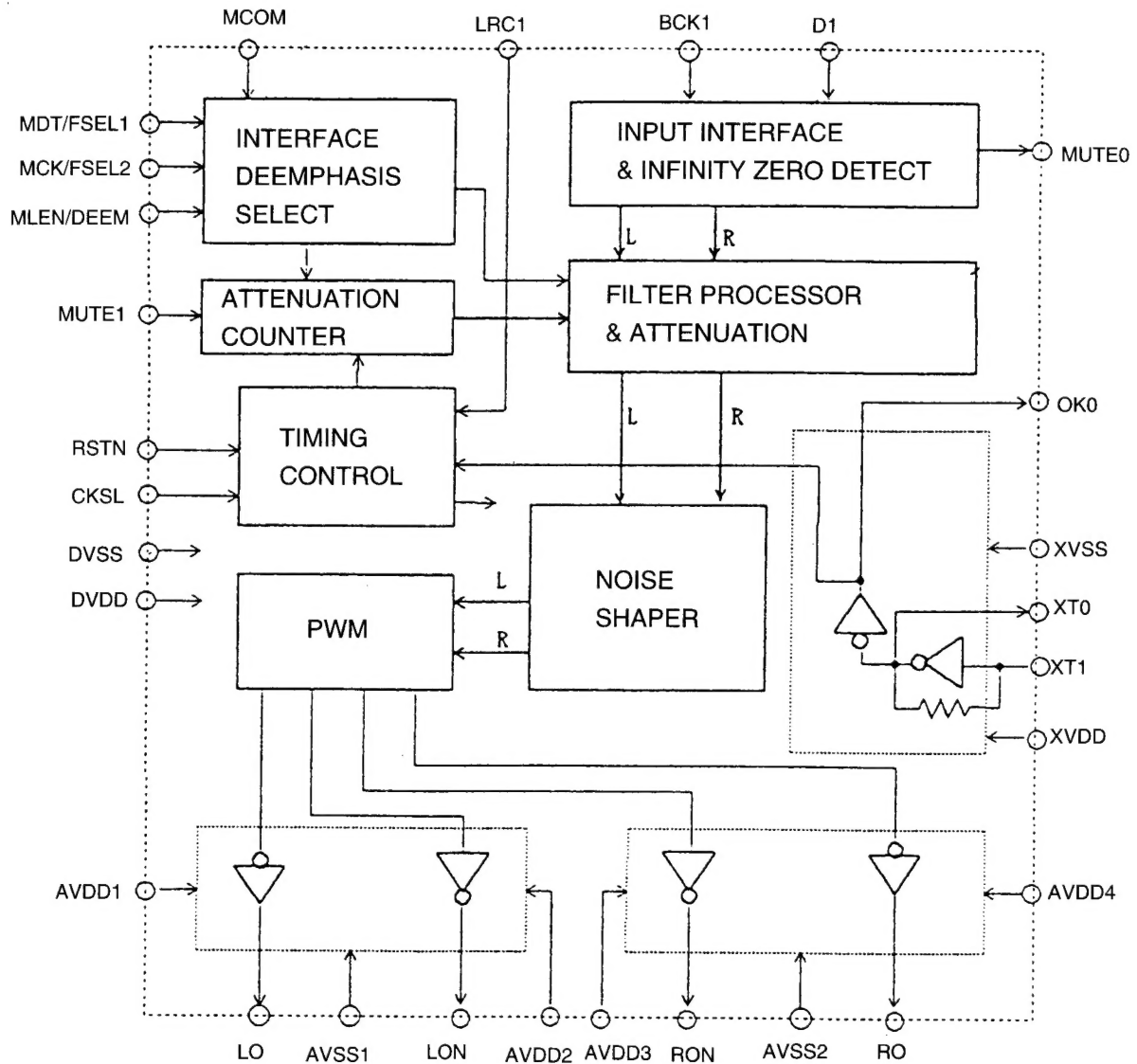
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. 8 TIMES OVER SAMPLING 16 BITS DIGITAL DAC : SM 5872BS(IC 202)

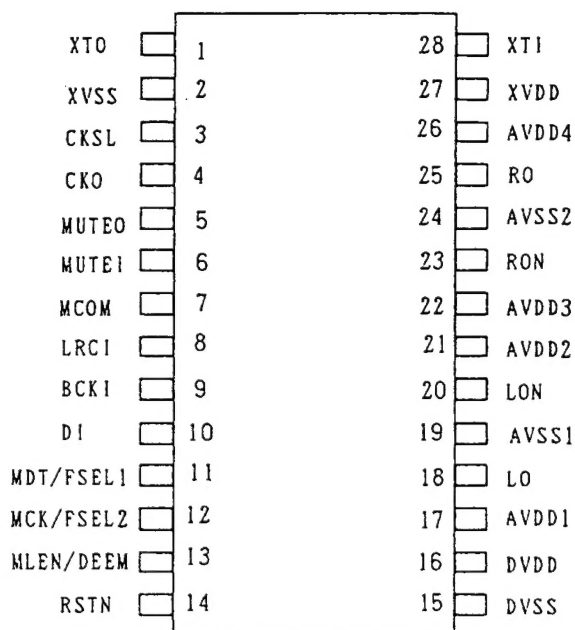
1-1. Block Diagram



DP-3060

CIRCUIT DESCRIPTION

1-2. Pin Connection



1-3 Pin function

Pin NO.	Pin name	I/O	Function												
1	XTO	O	O Oscillation output												
2	XVss	-	Crystal GND												
3	CKSL	IP	Connect H level												
4	CKO	O	Oscillation output												
5	MUTEO	O	Infinity zero detection												
6	MUTEI	IP	Mute input H=on/L=off												
7	MCOM	IP	Interface select, H=control MDT, MCK, MLEN/L=FSEL1, FSEL2, DEEM												
8	LRCI	IP	Input data sample rate(fs) clock. H=L-ch/L=R-ch												
9	BCKI	IP	Input data bit clock												
10	DI	IP	Input data												
11	MDT/FSEL1	IP	MCOM=H : MDT												
12	MCK/FSEL2	IP	MCOM=H : MCK MCOM=L <table border="1" style="margin-left: 20px;"> <thead> <tr><th colspan="3">FSEL2</th></tr> <tr><th>FSEL1</th><th>L</th><th>H</th></tr> </thead> <tbody> <tr><td>L</td><td>44.1kHz</td><td>48.0kHz</td></tr> <tr><td>H</td><td>(44.1kHz)</td><td>32.0kHz</td></tr> </tbody> </table>	FSEL2			FSEL1	L	H	L	44.1kHz	48.0kHz	H	(44.1kHz)	32.0kHz
FSEL2															
FSEL1	L	H													
L	44.1kHz	48.0kHz													
H	(44.1kHz)	32.0kHz													
13	MLEN	IP	MCOM=H : MLEN (microprocessor interface latch enable) MCOM=L : DEEM (deemphasis control (DEEM=H/L;emphasis=on/off))												
14	RSTN	-	System reset (H=normal/L=reset)												
15	DVss	-	Digital GND												
16	Vdd	-	Digital Vdd (5V)												
17	AVdd1	-	Analog Vdd (5V)												
18	LO	O	L-ch PWM output(+)												
19	AVss1	-	Analog GND												
20	LON	O	L-ch PWM output(-)												
21	AVdd2	-	Analog Vdd (5V)												
22	AVdd3	-	Analog Vdd (5V)												
23	RON	O	R-ch PWM output												
24	AVss2	-	Analog GND												
25	RO	O	R-ch PWM output												
26	AVdd4	-	Analog Vdd (5V)												
27	XVdd	-	Oscillation Vdd (5V)												
28	XTI	I	Oscillation input (384fs)												

ADJUSTMENT

Test Mode

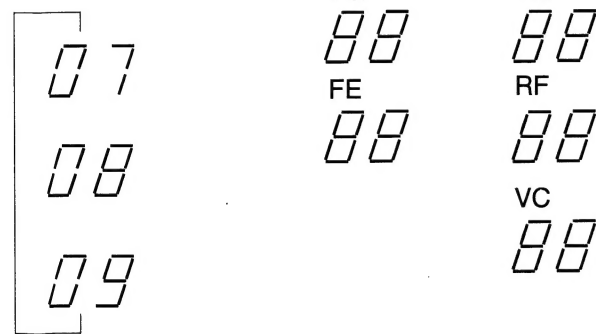
Setting the test mode

This microprocessor built this unit can be put to TEST MODE by just short-circuiting the test pins (#3 and #4) of main unit.

Key and functions valid in test mode

NO.	Input key	Function	Track No. display
1	PLAY/PAUSE (▶/)	(1) Focusing servoON (2) Tracking servoON (3) Feed servoON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Time. (Play mark), and Disc Track No. are displayed.
2	STOP (■)	(1) Focusing servoOFF (2) Tracking servoOFF (3) Feed servoOFF	*See blow
3	UP (▶▶)	Turns all FL display lamps ON.	TRACK NO. 88
4	DOWN (◀◀)	Turns all FL display lamps OFF.	TRACK NO. 88 TRACK NO. is lighted.

* TRACK NO.



ADJUSTMENT-FREE

This device has AVERAGE and AUTO GAIN CONTROL circuitry in its as DP-3060 is adjustment-free.

Please confirm the self-check value on display as follows and dc voltage in schematic diagram before replacing pickup.

SELF-CHECK VALUE TABLE

	DISPLAY VALUE
FOCUS GAIN (FG)	18<FG<57
TRACKING GAIN (TG)	19<TG<68
CENTER VOLTAGE (VC)	25<VC<75
FOCUS ERROR BALANCE (FE)	25<FE<75
RATIO FREQUENCY (RF)	57<RF<66

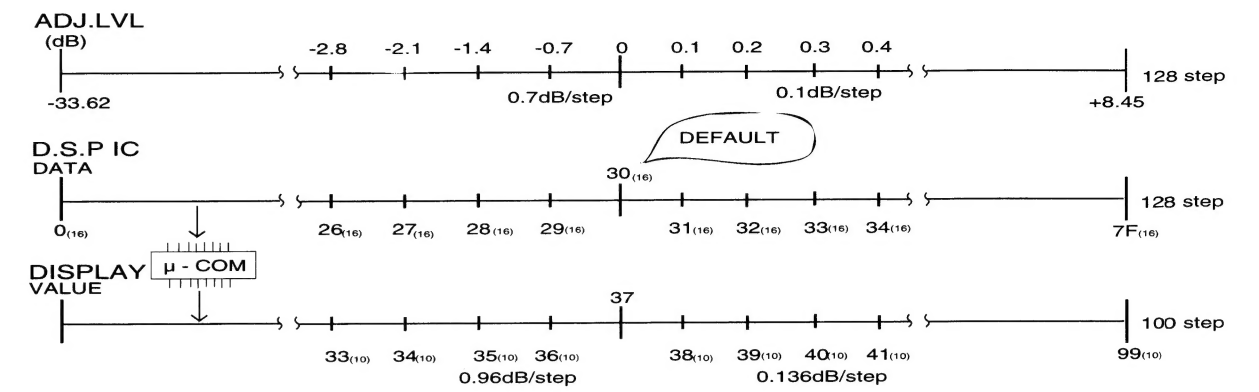
These value is by test disk KTD-02, YEDS-18, and TCD781.

PGM in the display is blink if not adjust. Please check circuit.

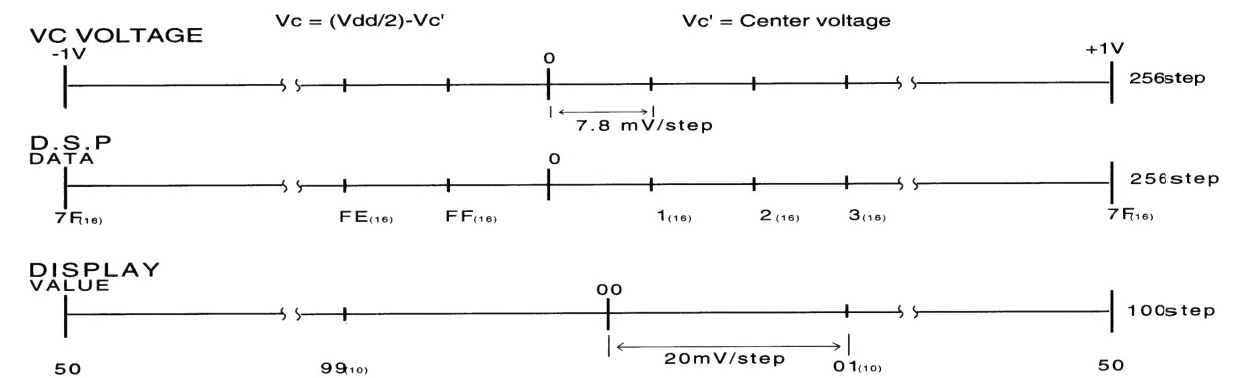
ADJUSTMENT

SELF-CHECK VALUE DISPLAY PROCESS

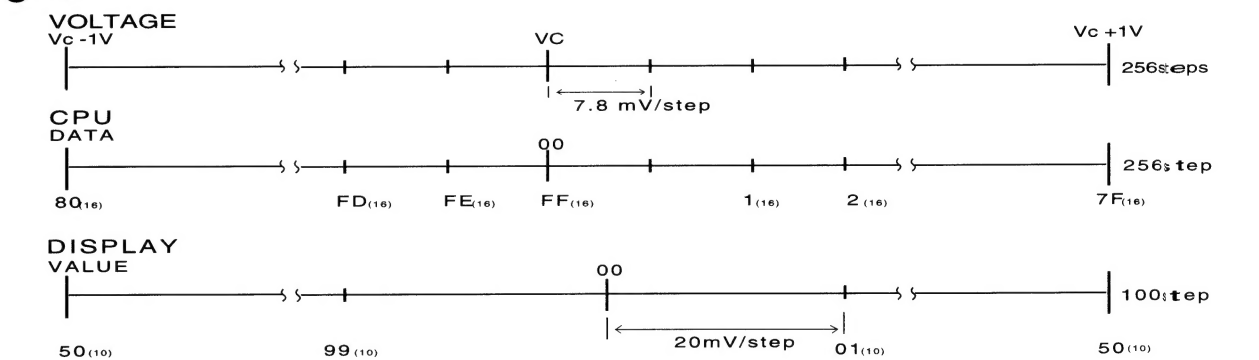
① FG/TG



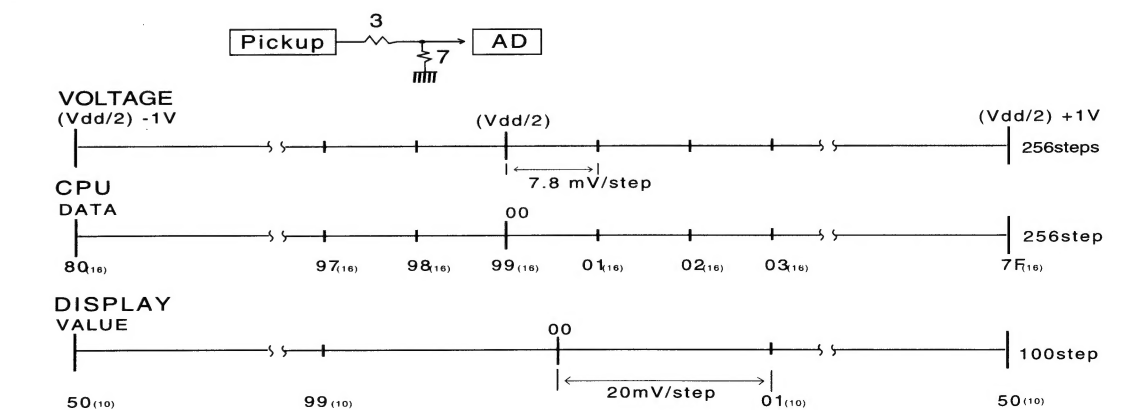
② VC



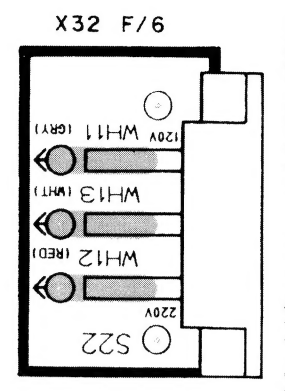
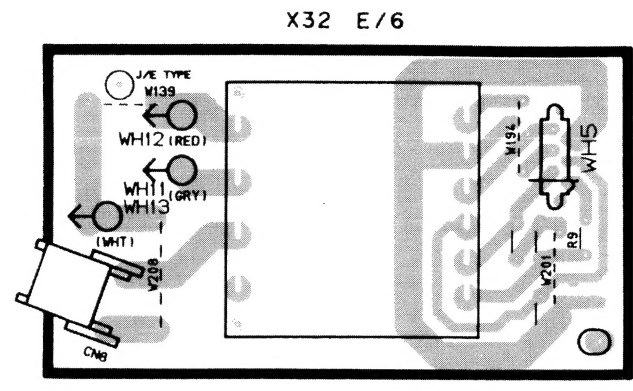
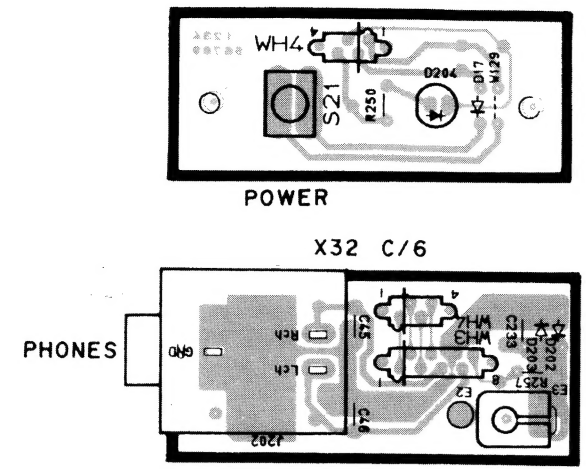
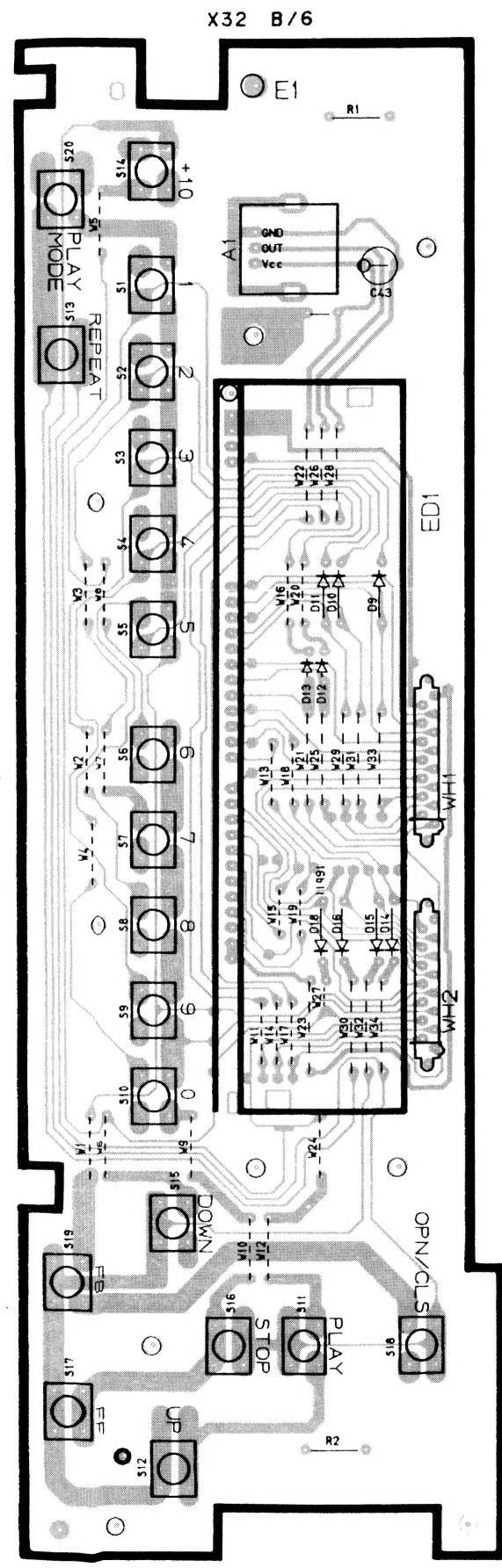
③ FE



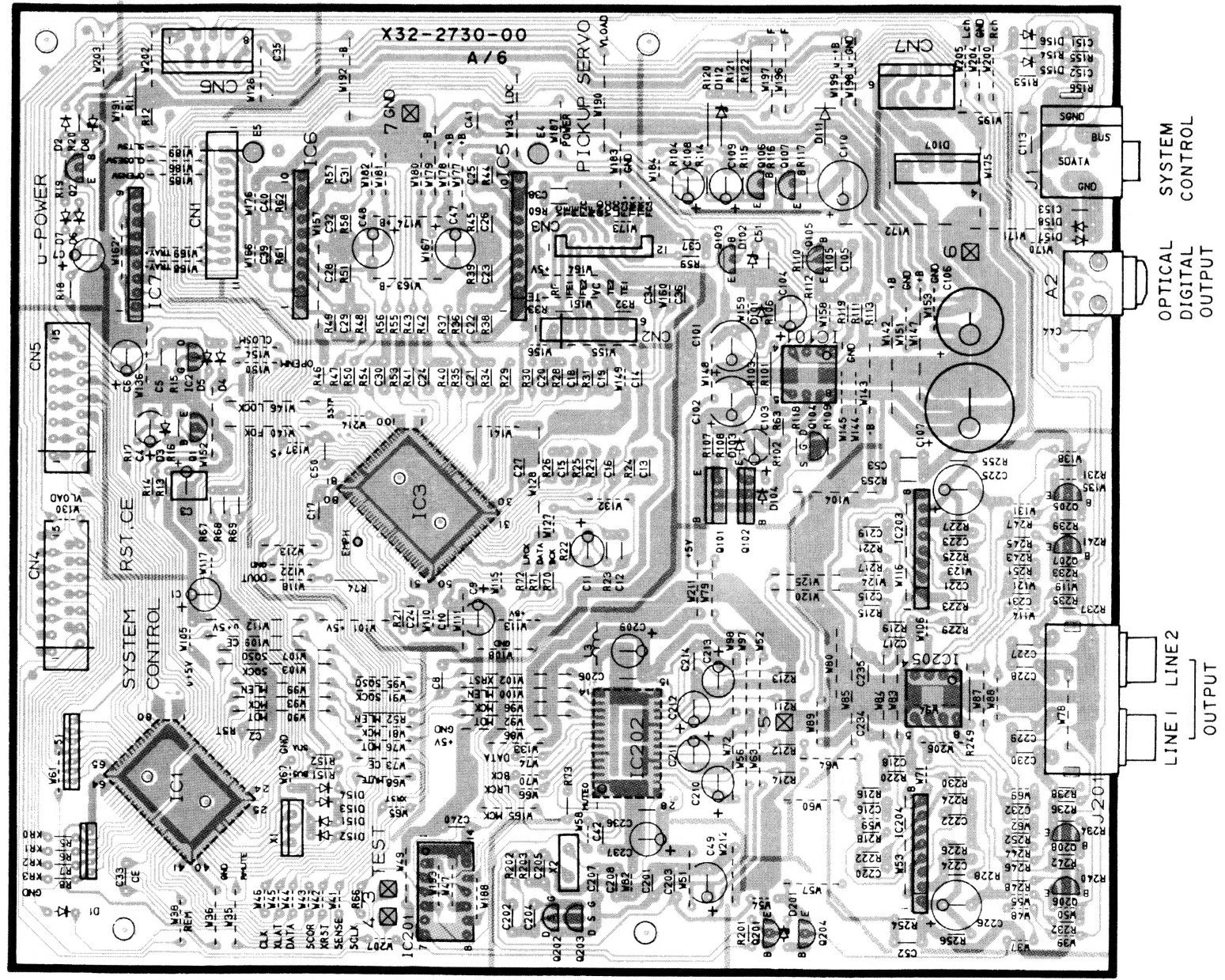
④ RF



PC BOARD (COMPONENT SIDE VIEW)



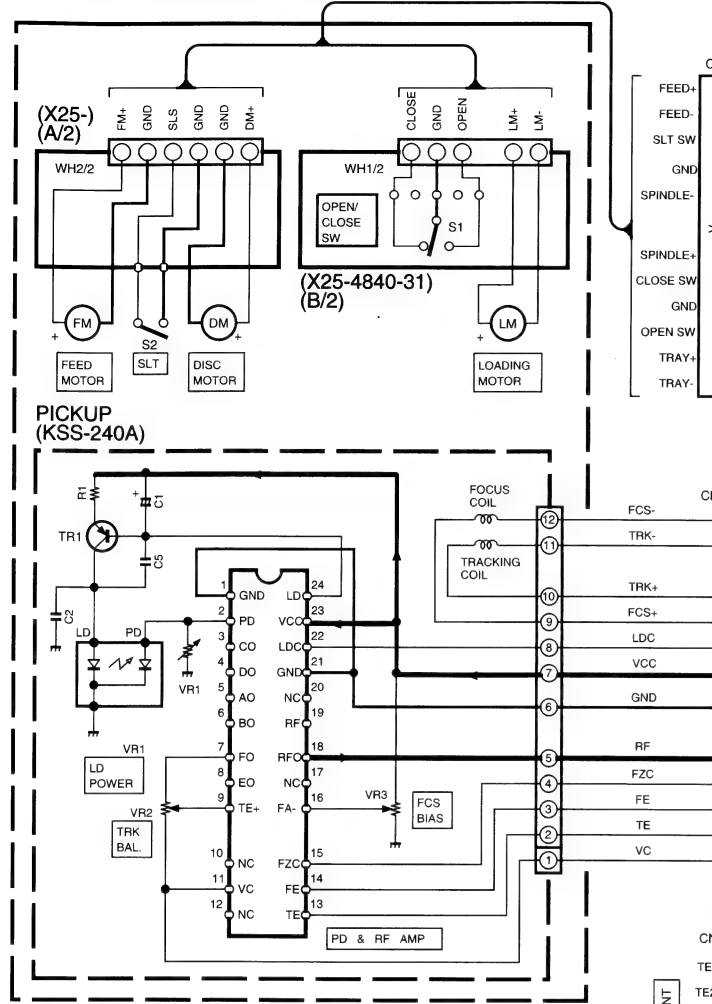
AC220-240V ~ → AC110-120V ~



SYSTEM CONTROL
OPTICAL DIGITAL OUTPUT
LINE 1 LINE 2 OUTPUT

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

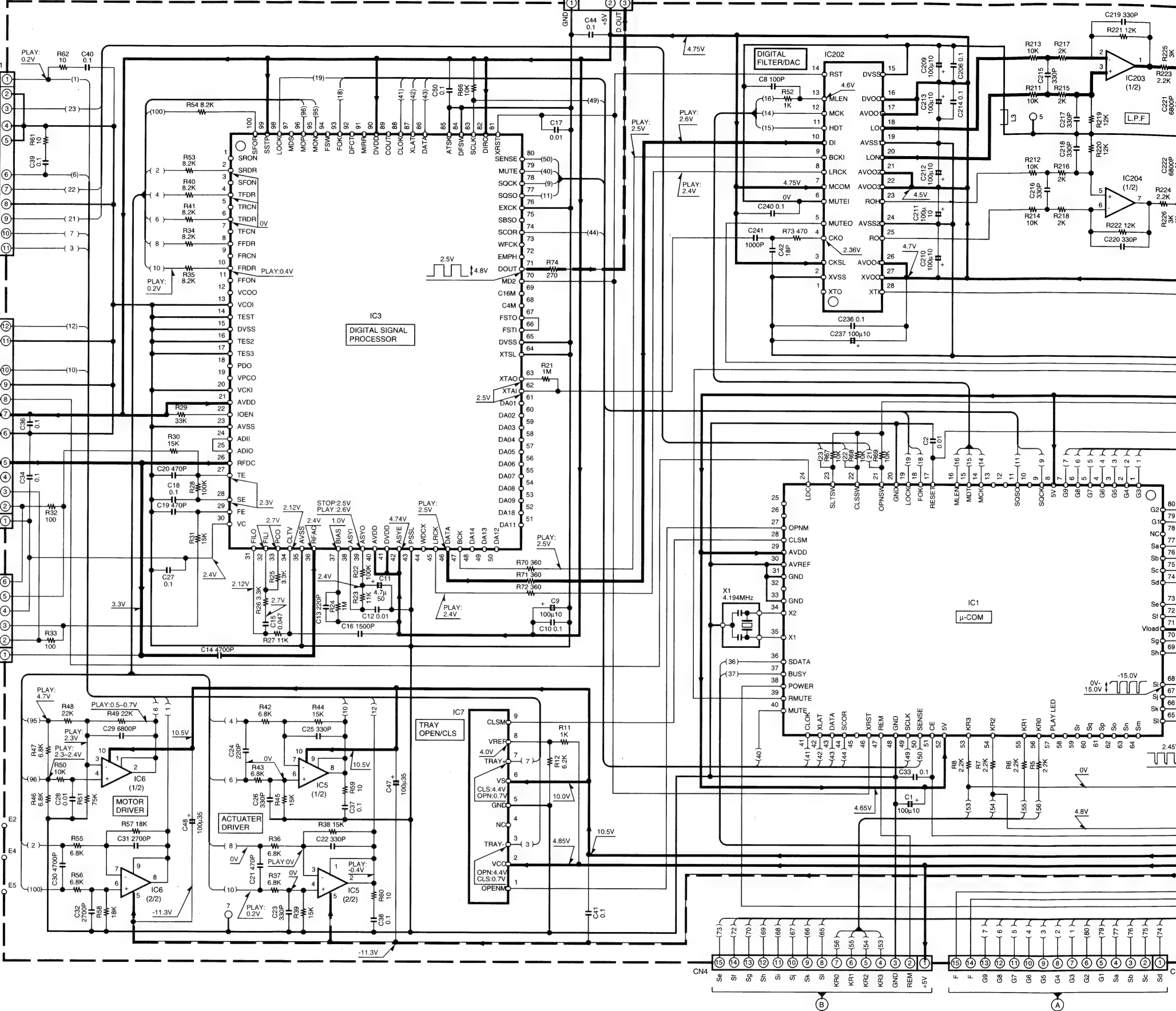
MECHA. ASSY
 (X92-1759-81) CDM-22(8)GS :SINGAPORE MADE
 (X92-1780-81) CDM-22(8)F :FRANCE MADE



PRODUCT. P.	MECHANISM ASSY	ELECTRIC UNIT
SINGAPORE MADE	X92-1759-81 CDM-22(8)GS	
FRANCE MADE	X92-1780-81 CDM-22(8)F	X25-4840-31

- D1-7,9-17,101,103,104,151-158,202,203
 D8 :1SS133 or HSS104
 D102 :MTZJ6.2(B) or RD6.2ES(B2)
 D107 :RD5.1J5(B2) or HZS5.1S(B2)
 D111 :1B4B41
 D112,201 :S5688B or 1SR139-100
 D204 :MTZJ5.6(B) or RD5.6ES(B2)
 :B30-1288-05
- Q1 :2SC2785(F,E) or 2SC1740S(Q,R)
 Q2,107 :2SC3940A
 Q101,102 :2SD2012
 Q103 :2SA1534A
 Q104 :2SK163(L,M)
 Q105,205-208 :2SC2878(B)
 Q106 :2SA1175(F,E) or 2SA933S(Q,R)
 Q201,204 :DTC124ES or UN4212
 Q202,203 :2SK161(GR)
- IC1 :μPD78044AGF-036
 IC2 :MN1381-R(TA)
 IC3 :CXD2515Q
 IC5,6 :TA8410AK
 IC7 :TA8409S
 IC101 :NJM4558D
 IC202 :SM5872BS
 IC203,204 :NJM4565L
 IC205 :NJM4580D
- ED1 :FIP9KM5

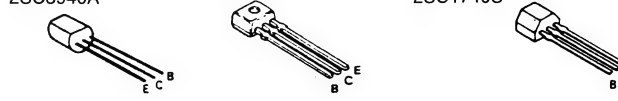
(X32-2730-21)(A/6)

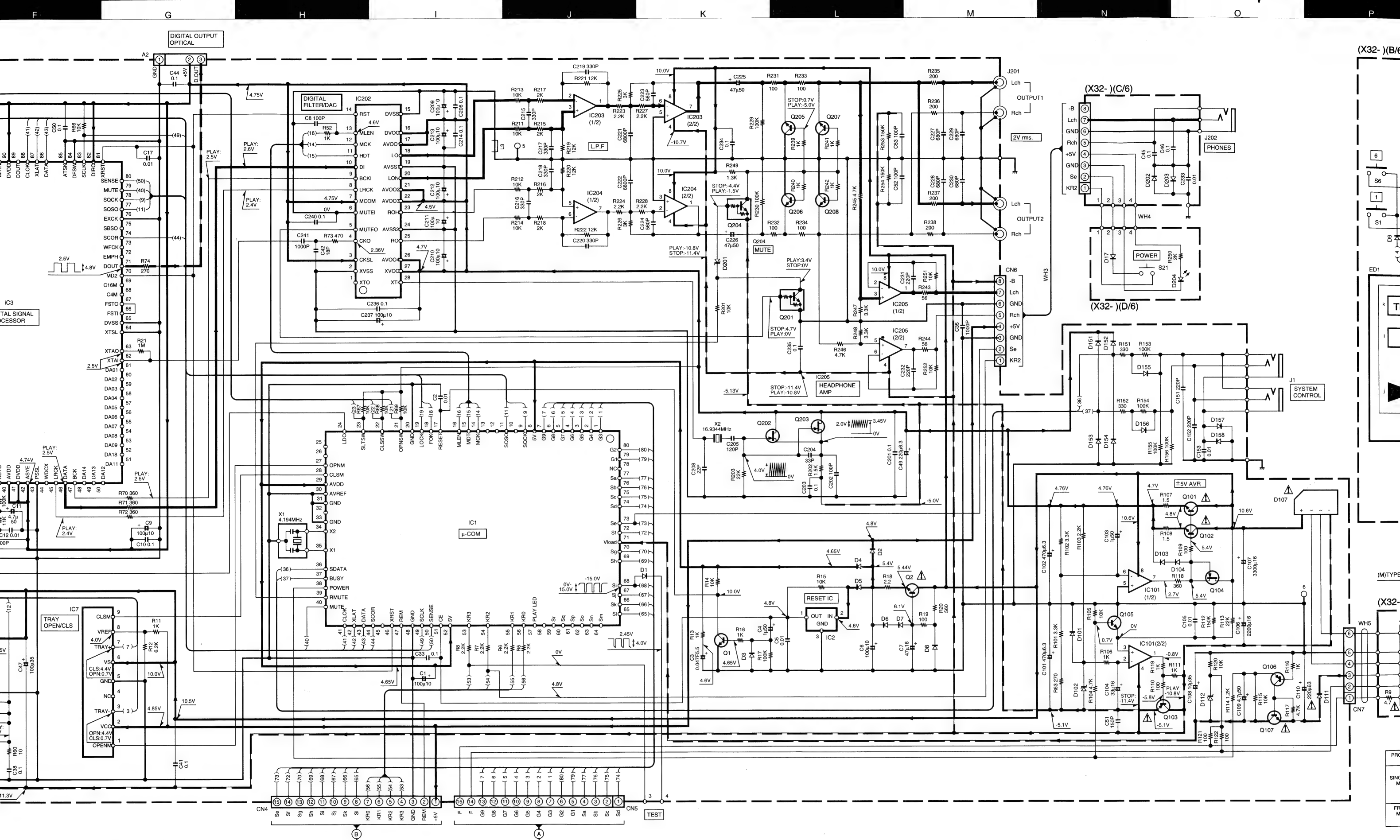


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

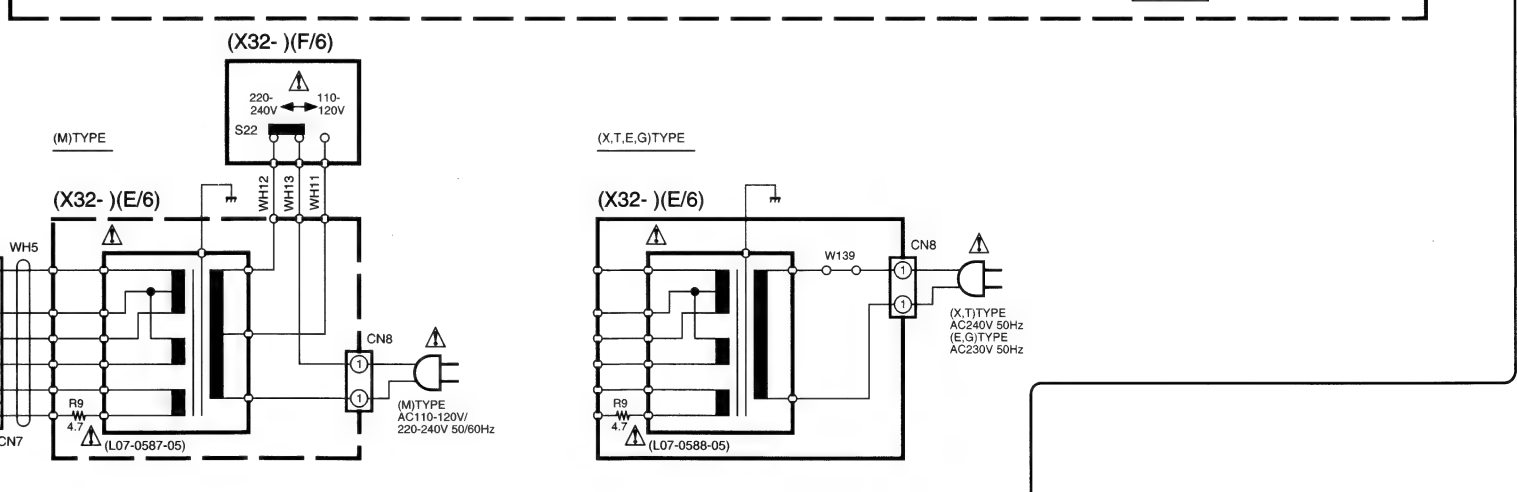
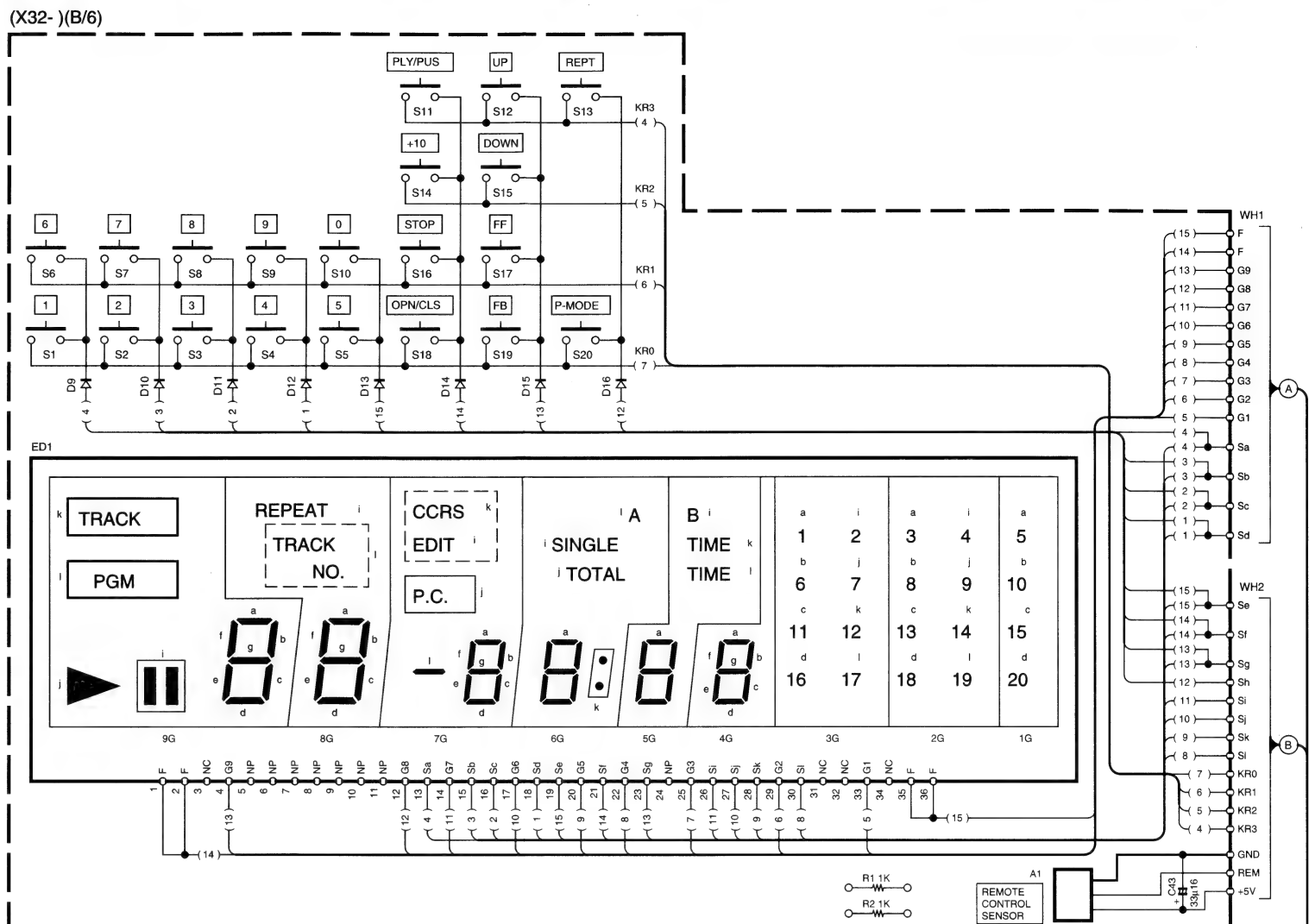
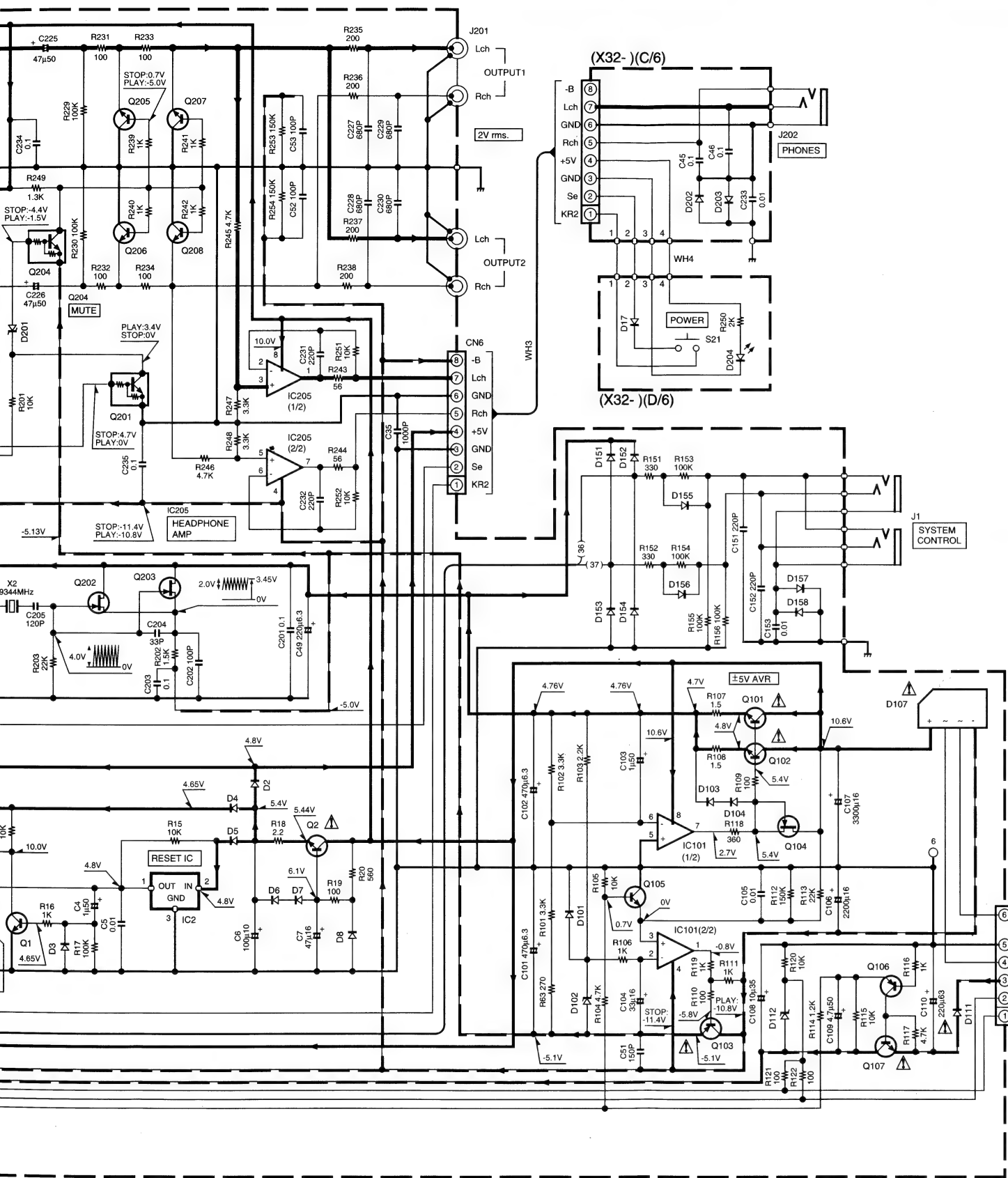
- 2SA1534A
 2SC2878
 2SC3940A
- 2SA1175
 2SC2785
- DTC124ES
 2SA933S
 2SC1740S



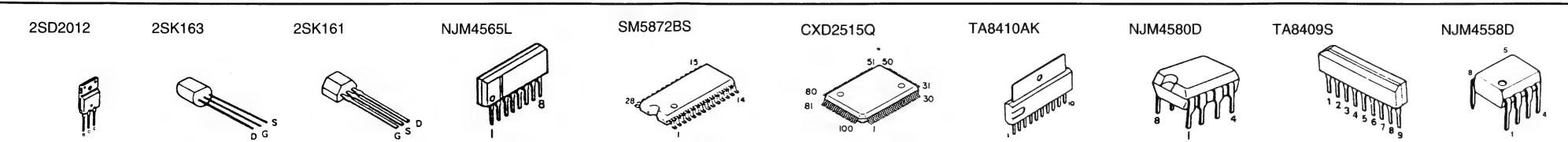
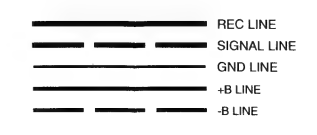


measured with a high impedance voltmeter. Values may vary between individual instruments or/and units.

- | | | | | | | | | | | | |
|----------|---------|----------|--------|---------|--------|--------|----------|----------|----------|----------|----------|
| 2SA1534A | 2SA1175 | DTC124ES | UN4212 | 2SD2012 | 2SK163 | 2SK161 | NJM4565L | SM5872BS | CXD2515Q | TA8410AK | NJM4565L |
| 2SC2878 | 2SC2785 | 2SA933S | | | | | | | | | |
| 2SC3940A | | 2SC1740S | | | | | | | | | |
-



PRODUCT P.	DESTINATION COUNTRY	ABB.	CD PLAYER UNIT
SINGAPORE MADE	GENERAL MARKET	M	X32-2730-21
	AUSTRALIA	X	
	U.K.	T	X32-2730-00
	EUROPE	E	
FRANCE MADE	GERMANY	G	
	U.K.	T	X32-2852-70
	EUROPE	E	
	GERMANY	G	

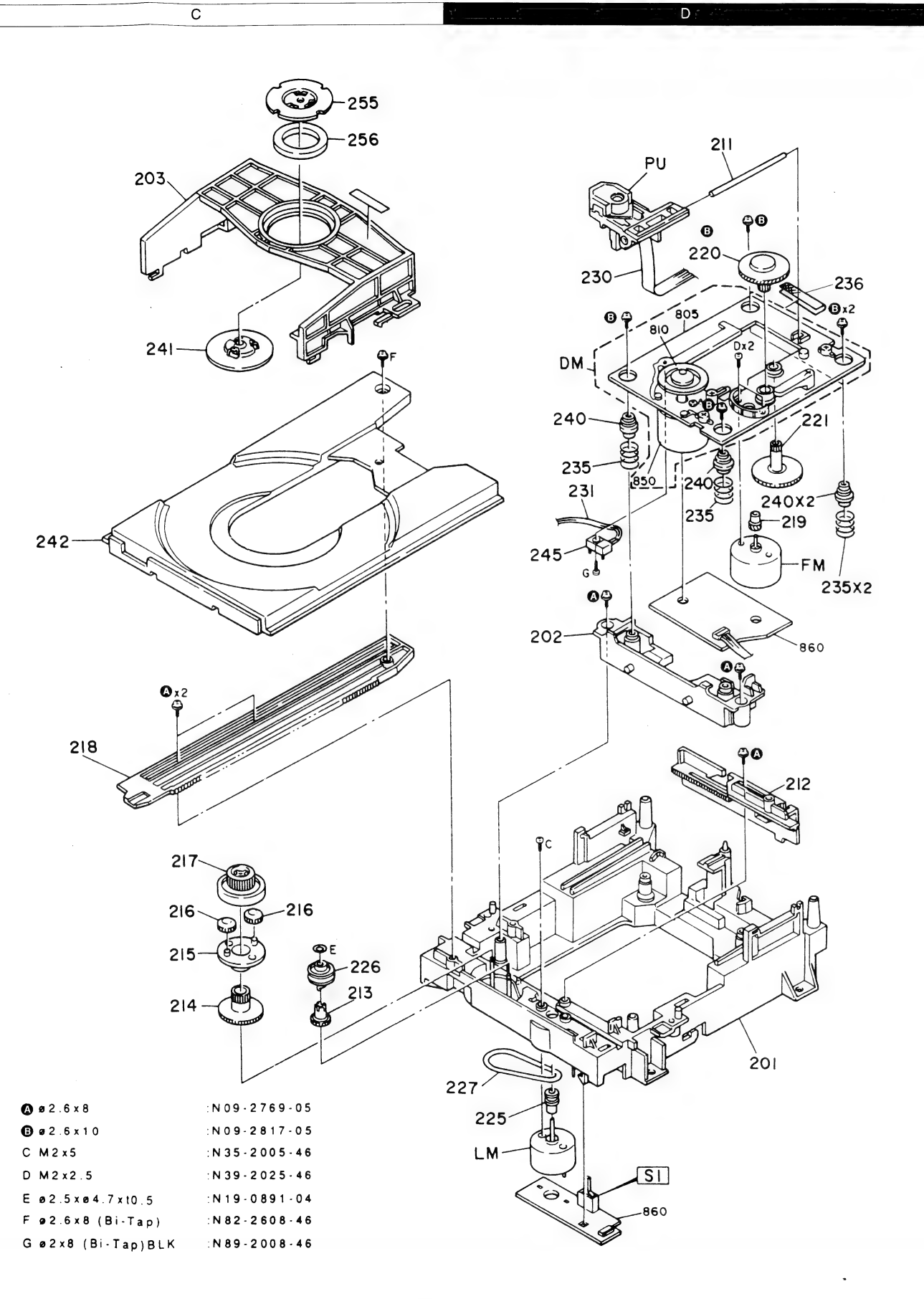


Y22-3750-21

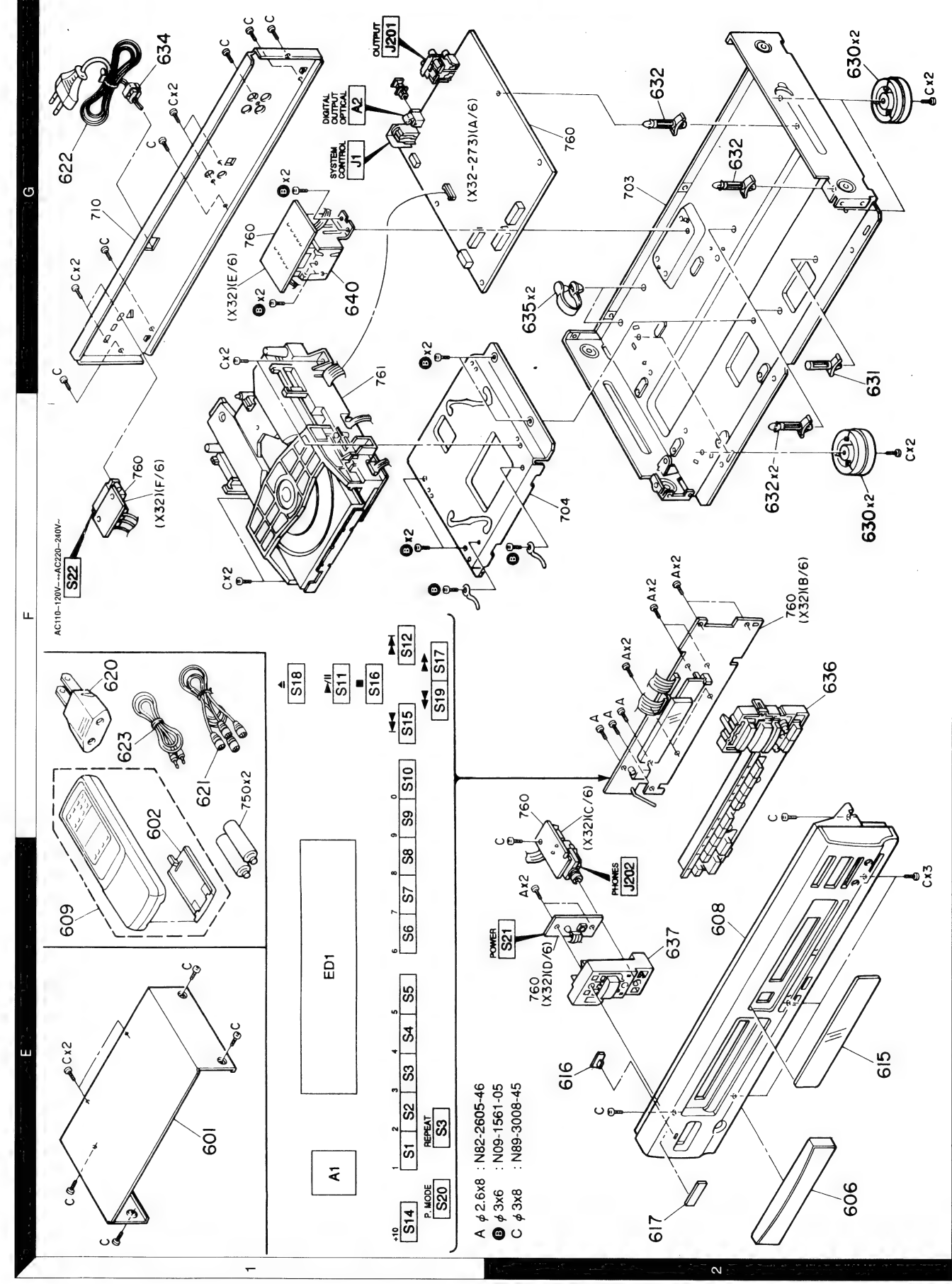
DP-3060
KENWOOD

EXPLODED VIEW (MECHANISM) FRANCE MADE

EXPLODED VIEW(UNIT)



Parts with the exploded numbers larger than 700 are not supplied



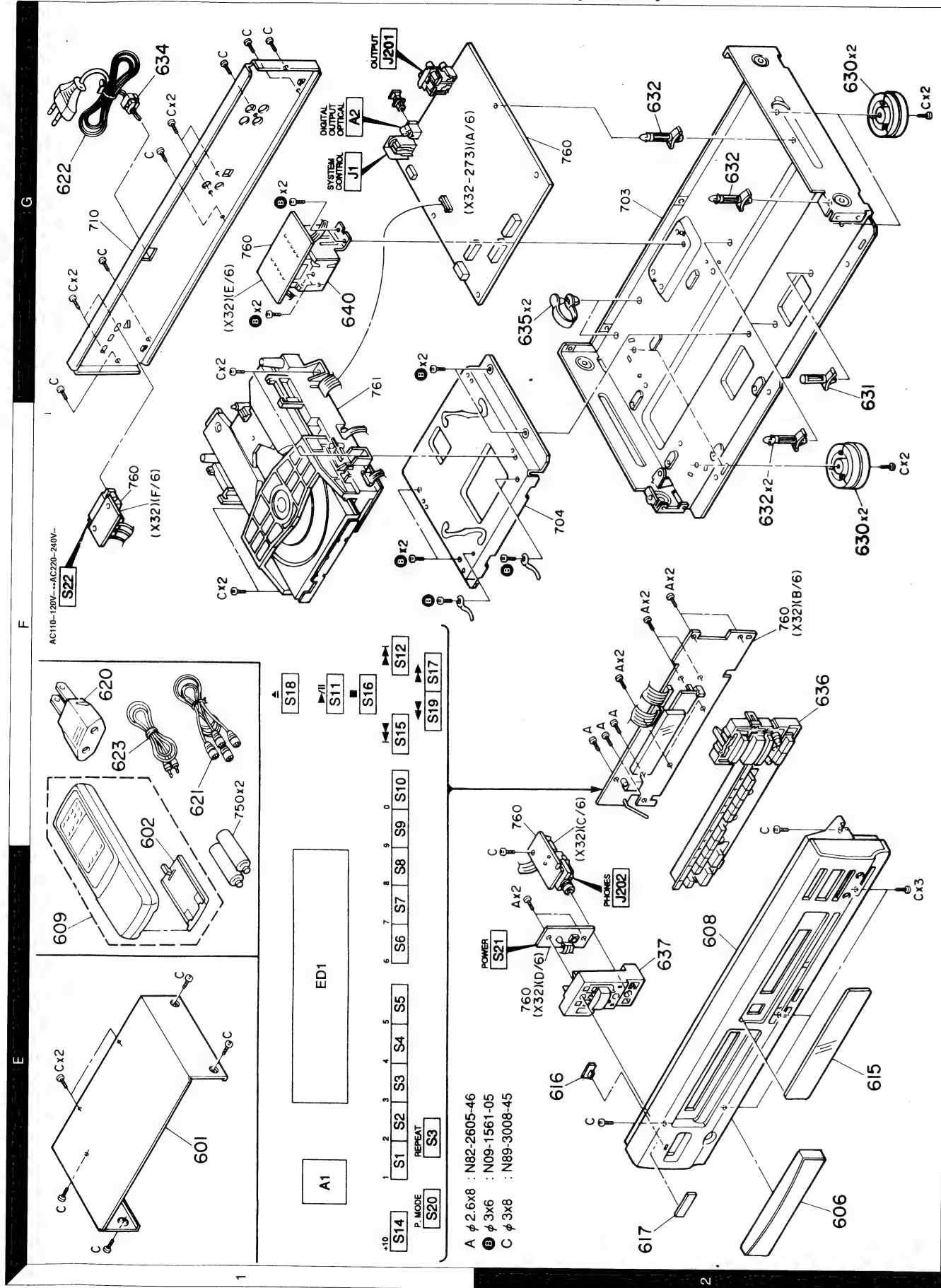
19

Parts with the exploded numbers larger than 700 are not supplied

20

DP-3060 DP-3060

EXPLODED VIEW(UNIT)



PARTS LIST

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

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
DP-3060 SINGAPORE MADE						
601	1E	*	A01-3142-01	METALLIC CABINET		
602	1F		A09-0170-08	BATTERY COVER		
606	2E	*	A29-0370-03	PANEL (TRAY)		
608	2E	*	A60-0591-01	PANEL		
609	1E		A70-0980-05	REMOCON ASSY(RC-P0701)		
615	2E		B03-2896-04	DRESSING PLATE		
616	2E		B12-0240-04	INDICATOR		
617	2E		B43-0287-04	KENWOOD BADGE		
-	-		B46-0096-43	WARRANTY CARD	X	
-	-		B46-0310-03	WARRANTY CARD	TEG	
-	-		B58-0945-03	CAUTION CARD	T	
-	-	*	B58-0965-13	CAUTION CARD	XT	
-	-	*	B58-0966-13	CAUTION CARD	ME	
-	-	*	B58-0970-13	CAUTION CARD	G	
-	-		B60-1639-00	INSTRUCTION MANUAL(ENGLISH)	MXTE	
-	-	*	B60-1640-00	INSTRUCTION MANUAL(GERMAN)	EG	
-	-	*	B60-1641-00	INSTRUCTION MANUAL(FRA,DUT,ITA)	E	
-	-		B60-1642-00	INSTRUCTION MANUAL(SPANISH)	ME	
-	-		B60-1643-00	INSTRUCTION MANUAL(CHINESE)	M	
-	-	*	B60-1781-00	INSTRUCTION MANUAL(TAIWAN)	M	
△ 620	1F		E03-0115-05	AC PLUG ADAPTER	M	
621	1F		E30-0505-05	AUDIO CORD		
△ 622	1G		E30-2592-15	AC POWER CORD	MEG	
△ 622	1G		E30-2717-05	AC POWER CORD	X	
△ 622	1G		E30-2721-05	AC POWER CORD	T	
623	1F		E30-2733-05	CORD WITH PLUG		
-	2G	*	H10-5786-02	POLYSTYRENE FOAMED FIXTURE(L)		
-	-	*	H10-5787-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	*	H12-2201-04	PACKING FIXTURE	T	
-	-	*	H13-0170-04	CARTON BOARD	X	
-	-		H20-0554-04	PROTECTION COVER	M	
-	-		H25-0232-04	PROTECTION BAG (235X350X0.03)	MXEG	
-	-		H25-0330-04	PROTECTION BAG	XEG	
-	-		H25-0651-04	PROTECTION BAG	T	
-	-		H25-0658-04	PROTECTION BAG	T	
-	-	*	H50-1106-04	ITEM CARTON CASE	XEG	
-	-	*	H50-1107-04	ITEM CARTON CASE	M	
-	-	*	H50-1108-04	ITEM CARTON CASE	T	
630	2F, 2G		J02-1034-05	FOOT		
631	2G		J19-3056-05	UNIT HOLDER		
632	2F, 2G		J19-3329-05	UNIT HOLDER		
△ 634	1G		J42-0083-05	POWER CORD BUSHING		
635	2G		J19-0306-05	LEAD HOLDER		
-	-		J11-0163-05	WIRE CLAMPER	M	
-	-		J61-0307-05	WIRE BAND		
636	2F	*	K29-5940-12	KNØB (R)		
637	2E	*	K29-5941-03	KNØB (L)		
△ 640	1G		L07-0587-05	POWER TRANSFORMER(115-230V)	M	
△ 640	1G		L07-0588-05	POWER TRANSFORMER(230V)	XTEG	

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DP-3060 FRANCE MADE						
601	1E	*	A01-3142-01	METALLIC CABINET		
602	1F	*	A09-0170-08	BATTERY COVER		
606	2E	*	A29-0370-03	PANEL		
608	2E	*	A60-0591-01	PANEL		
609	1E		A70-0980-05	REMOCON ASSY(RC-P0701)		
615	2E	*	B03-2896-04	DRESSING PLATE		
616	2E		B12-0240-04	INDICATOR		
617	2E		B43-0287-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD		T
-		*	B58-0965-13	CAUTION CARD		T
-		*	B58-0966-13	CAUTION CARD		E
-		*	B58-0970-13	CAUTION CARD		G
-			B60-1639-00	INSTRUCTION MANUAL(ENGLISH)		ET
-		*	B60-1640-00	INSTRUCTION MANUAL(DERMAN)		EG
-		*	B60-1641-00	INSTRUCTION MANUAL(FRA,DUT,ITA)		E
-			B60-1642-00	INSTRUCTION MANUAL(SPANISH)		E
△ 621	1F		E30-0505-05	AUDIO CORD		
△ 622	1G		E30-2592-15	AC POWER CORD		EG
△ 622	1G		E30-2721-05	AC POWER CORD		T
△ 623	1F		E30-2733-05	CORD WITH PLUG		
-		*	H10-5788-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5789-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H11-0050-04	POLYSTYRENE FOAMED BOARD		T
-			H13-0133-04	CARTON BOARD		T
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		EG
-			H25-0330-04	PROTECTION BAG		EG
-			H25-0651-04	PROTECTION BAG		T
-			H25-0658-04	PROTECTION BAG		T
-		*	H50-1264-04	ITEM CARTON CASE		EG
-		*	H50-1265-04	ITEM CARTON CASE		T
630	2F		J02-1034-05	FOOT		
631	2G		J19-3056-05	UNIT HOLDER		
632	2F, 2G		J19-3329-05	UNIT HOLDER		
△ 634	1G		J42-0083-05	POWER CORD BUSHING		
635	2G		J19-0306-05	LEAD HOLDER		
-			J61-0307-05	WIRE BAND		
636	2F	*	K29-5940-12	KNØB		
637	2E	*	K29-5941-03	KNØB		
△ 640	1G		L07-0588-05	POWER TRANSFORMER		
MECHANISM PCB(X25-4840-21)						
S1	3D		S33-2062-05	LEVER SWITCH		
CONTROL(X32-2730-21)						
D204			B30-1288-05	LED		
C1			CE04LW1A101MCC	ELECTRO	100UF	10WV
C2			CF92FV1H103J	MF	0.010UF	J
C3			C90-1826-05	BACKUP	0.047F	5.5WV
C4			CE04LW1H010MCC	ELECTRO	1.0UF	50WV
C5			CF92FV1H103J	MF	0.010UF	J

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C6			CE04LW1A101MCC	ELECTRO 100UF 10WV		
C7			CE04LW1C470MCC	ELECTRO 47UF 16WV		
C8			CF92FV1H101K	MF 100PF K		
C9			CE04LW1A101MCC	ELECTRO 100UF 10WV		
C10			CF92FV1H104J	MF 0.10UF J		
C11			CE04LW1H4R7MCC	ELECTRO 4.7UF 50WV		
C12			CF92FV1H103J	MF 0.010UF J		
C13			CF92FV1H221K	MF 220PF K		
C14			CF92FV1H472J	MF 4700PF J		
C15			CF92FV1H473J	MF 0.047UF J		
C16			CF92FV1H152J	MF 1500PF J		
C17			CF92FV1H103J	MF 0.010UF J		
C18			CF92FV1H104J	MF 0.10UF J		
C19 -21			CF92FV1H471J	MF 470PF J		
C22 ,23			CF92FV1H331K	MF 330PF K		
C24			CF92FV1H221K	MF 220PF K		
C25 ,26			CF92FV1H331K	MF 330PF K		
C27			CF92FV1H104J	MF 0.10UF J		
C28			CF92FV1H103J	MF 0.010UF J		
C29			CF92FV1H682J	MF 6800PF J		
C30			CF92FV1H472J	MF 4700PF J		
C31 ,32			CF92FV1H272J	MF 2700PF J		
C33 ,34			CF92FV1H104J	MF 0.10UF J		
C35			CF92FV1H102J	MF 1000PF J		
C36 -41			CF92FV1H104J	MF 0.10UF J		
C42			CC45FSL1H180J	CERAMIC 18PF J		
C43			CE04LW1C330MCC	ELECTRO 33UF 16WV		
C44 -46			CF92FV1H104J	MF 0.10UF J		
C47 ,48			CE04LW1V101MCC	ELECTRO 100UF 35WV		
C49			CE04LW0J221MCC	ELECTRO 220UF 6.3WV		
C50			CF92FV1H104J	MF 0.10UF J		
C51			CF92FV1H151K	MF 150PF K		
C52 ,53			C91-1474-05	FILM 100PF J		
C101, 102			CE04LW0J471MCC	ELECTRO 470UF 6.3WV		
C103			CE04LW1H010MCC	ELECTRO 1.0UF 50WV		
C104			CE04LW1C330MCC	ELECTRO 33UF 16WV		
C105			CF92FV1H103J	MF 0.010UF J		
C106			CE04LW1C222MCC	ELECTRO 2200UF 16WV		
C107			CE04LW1C332MCC	ELECTRO 3300UF 16WV		
C108			CE04LW1V100MCC	ELECTRO 10UF 35WV		
C109			CE04LW1H4R7MCC	ELECTRO 4.7UF 50WV		
C110			CE04LW1J221MCC	ELECTRO 220UF 63WV		
C151, 152			CF92FV1H221K	MF 220PF K		
C153			CF92FV1H103J	MF 0.010UF J		
C201			CF92FV1H104J	MF 0.10UF J		
C202			CF92FV1H101K	MF 100PF K		
C203			CF92FV1H104J	MF 0.10UF J		
C204			CC45FSL1H330J	CERAMIC 33PF J		
C205			CF92FV1H121K	MF 120PF K		
C206			CF92FV1H104J	MF 0.10UF J		
C208			CC45FSL1H220J	CERAMIC 22PF J		
C209-213			CE04LW1A101MCC	ELECTRO 100UF 10WV		
C214			CF92FV1H104J	MF 0.10UF J		
C215-220			CF92FV1H331K	MF 330PF K		
C221, 222			CF92FV1H682J	MF 6800PF J		

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C223,224			CF92FV1H561J	MF 560PF J		
C225,226			CE04LW1H470MCC	ELECTRO 47UF 50WV		
C227-230			CF92FV1H681J	MF 680PF J		
C231,232			CF92FV1H221K	MF 220PF K		
C233			CF92FV1H103J	MF 0.010UF J		
C234-236			CF92FV1H104J	MF 0.10UF J		
C237			CE04LW1A101MCC	ELECTRO 100UF 10WV		
C240			CF92FV1H333J	MF 0.033UF J		
C241			CF92FV1H102J	MF 1000PF J		
J1	1G		E11-0188-05	MINIATURE PHONE JACK(SYS/CON)		
J201	1G		E63-0120-05	PHONE JACK		
J202	2E		E11-0208-05	PHONE JACK (PHONES)		
-			J11-0098-05	WIRE CLAMPER		
L3			L92-0018-05	FERRITE CORE		
X1			L78-0267-05	RESONATOR (4.194MHZ)		
X2			L77-2133-05	CRYSTAL RESONATOR(16.9344MHZ-1)		
R101,102			RN14BK2C3301F	RN 3.30K F 1/6W		
S1 -21	1E,1F		S40-1064-05	PUSH SWITCH		
S22	1F		S62-0001-05	SLIDE SWITCH	M	
D1 -7			HSS104	DIODE		
D1 -7			1SS133	DIODE		
D8			MTZJ6.2(B)	ZENER DIODE		
D8			RD6.2ES(B2)	ZENER DIODE		
D9 -17			HSS104	DIODE		
D9 -17			1SS133	DIODE		
D101			HSS104	DIODE		
D101			1SS133	DIODE		
D102			HZS5.1S(B2)	ZENER DIODE		
D102			RD5.1JS(B2)	ZENER DIODE		
D103,104			HSS104	DIODE		
D103,104			1SS133	DIODE		
D107			1B4B41	DIODE		
D111			S5688B	DIODE		
D111			1SR139-100	DIODE		
D112			MTZJ5.6(B)	ZENER DIODE		
D112			RD5.6ES(B2)	ZENER DIODE		
D151-158			HSS104	DIODE		
D151-158			1SS133	DIODE		
D201			MTZJ5.6(B)	ZENER DIODE		
D201			RD5.6ES(B2)	ZENER DIODE		
D202,203			HSS104	DIODE		
D202,203			1SS133	DIODE		
ED1	1E		FIP9KM5	INDICATOR TUBE		
IC1			UPD78044AGF-036	MI-COM IC		
IC2			MN1381-R(TA)	IC(VOLTAGE DETECT)		
IC3			CXD2515Q	IC		
IC5 ,6			TA8410AK	IC(POWER OP AMP)		
IC7			TA8409S	IC(MOTOR CONTROL)		
IC101			NJM4558D	IC(OP AMP X2)		
IC202			SM5872BS	MOS-IC		
IC203,204			NJM4565L	IC(OP AMP X2)		
IC205			NJM4580D	IC(OP AMP X2)		

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Q1 Q1 Q2 Q101, 102 Q103			2SC1740S(Q, R) 2SC2785(F, E) 2SC3940A 2SD2012 2SA1534A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q104 Q105 Q106 Q106 Q107			2SK163(L, M) 2SC2878(B) 2SA1175(F, E) 2SA933S(Q, R) 2SC3940A	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q201 Q201 Q202, 203 Q204 Q204			DTC124ES UN4212 2SK161(GR) DTC124ES UN4212	DIGITAL TRANSISTOR TRANSISTOR FET DIGITAL TRANSISTOR TRANSISTOR		
Q205-208			2SC2878(B)	TRANSISTOR		
A1 A2	1E 1G		W02-1174-05 W02-1114-05	ELECTRIC CIRCUIT MODULE OSCILLATING MODULE		
101 102 103	3B 2B 1A	*	A10-2974-11 A11-0756-03 A11-0757-02	CHASSIS (MAIN) SUB CHASSIS (FRAME) SUB CHASSIS (CLAMPER)		
111 112 113 114 115	1B 2B 3A 3A 3A		D10-2490-04 D10-3253-03 D13-0975-04 D13-0976-03 D13-0977-03	ROD SLIDER GEAR (INTERMEDIATE) GEAR (CENTER) GEAR (CARRIER)		
116 117 118 119 120	3A 3B 3B		D13-0978-03 D13-0979-03 D13-0980-02 D13-0894-05 D13-0895-05	GEAR (IDLER) GEAR LACK (GEAR) GEAR (MOTOR) GEAR (INTERMEDIATE)		
121 125 126 127	3B		D13-0896-05 D15-0328-04 D15-0329-03 D16-0333-03	GEAR (FEED) MOTOR PULLEY PULLEY BELT		
135 136			G01-3326-14 G10-0146-04	COMPRESSION SPRING NON-WOVEN FABRIC		
140 141 142	1B, 2B 1A 2A		J02-1058-15 J11-0180-03 J99-0514-01	INSULATOR CLAMPER TRAY		
S1 S2	3B 2B		S33-2062-05 S33-1022-05	LEVER SWITCH LEVER SWITCH		
155 156 DM FM LM	1A 1A 1B 2B 3B		T50-1058-04 T99-0503-15 A11-0733-05 T42-0532-05 T42-0609-05	Yoke MAGNET SUB CHASSIS ASSY(DISC MOTOR) DC MOTOR (FEED MOTOR) DC MOTOR (LOADING MOTOR)		
PU	1B		T25-0022-05	OPTICAL PICKUP HEAD		
MECHANISM(X92-1760-81)						
201	3D	*	A10-2978-11	CHASSIS (MAIN)		

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202	2D		A11-0758-03	SUB CHASSIS (FRAME)		
203	1C	*	A11-0760-02	SUB CHASSIS (CLAMPER)		
211	1D		D10-2490-04	ROD		
212	1D		D10-3253-03	SLIDER		
213	3C		D13-0975-04	GEAR (INTER MEDIATE)		
214	3C		D13-0976-03	GEAR (CENTER)		
215	3C		D13-0977-03	GEAR (CARRIER)		
216	3C		D13-0978-03	GEAR (IDLER)		
217	2C		D13-0979-03	GEAR		
218	2C		D13-0980-02	LACK (GEAR)		
219	2D		D13-0894-05	GEAR (MOTOR)		
220	1D		D13-0895-05	GEAR (INTERMEDIATE)		
221	1D		D13-0896-05	GEAR (FEED)		
225	3D		D15-0328-04	MOTOR PULLEY		
226	3C		D15-0329-03	PULLEY		
227	3D		D16-0333-03	BELT		
230	1D	*	E35-0903-15	FLAT CABLE		
231	2D		E35-0420-05	LEAD WIRE		
235	2D		G01-3465-04	COMPRESSION SPRING		
236	1D		G10-0146-04	NON-WOVEN FABRIC		
240	1D, 2D		J02-1058-15	INSULATOR		
241	1C		J11-0180-03	CLAMPER		
242	2C		J99-0515-01	TRAY		
245	2D		S33-1022-05	LEVER SWITCH		
255	1C		T50-1058-04	YOKE		
256	1C		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY(DISC MOTOR)		
FM	3D		T42-0532-05	DC MOTOR (FEED)		
LM	3D		T42-0609-05	DC MOTOR (LOADING)		
PU	1D		T25-0024-05	OPTICAL PICKUP HEAD(KSS-240A)		

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