

Pioneer

Service Manual

ORDER NO.
RRV2048

FILE-TYPE CD PLAYER

PD-F19

- Refer to the service manual RRV2001 for PD-F1007/KU.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	PD-F19		
KU	○	AC120V	

CONTENTS

- 1. CONTRAST OF MISCELLANEOUS PARTS 2
- 2. SCHEMATIC DIAGRAM 6
- 3. PCB CONNECTION DIAGRAM 12

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES : ● Parts marked by “ NSP ” are generally unavailable because they are not in our Master Spare Parts List.

● The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by $J = 5\%$, and $K = 10\%$).

$560\ \Omega \rightarrow 56 \times 10^1 \rightarrow 561$ RD1/4PU    J

$47k\ \Omega \rightarrow 47 \times 10^3 \rightarrow 473$ RD1/4PU    J

$0.5\ \Omega \rightarrow R50$ RN2H    K

$1\ \Omega \rightarrow 1R0$ RS1P    K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

$5.62k\ \Omega \rightarrow 562 \times 10^1 \rightarrow 5621$ RN1/4PC     F

■ CONTRAST TABLE

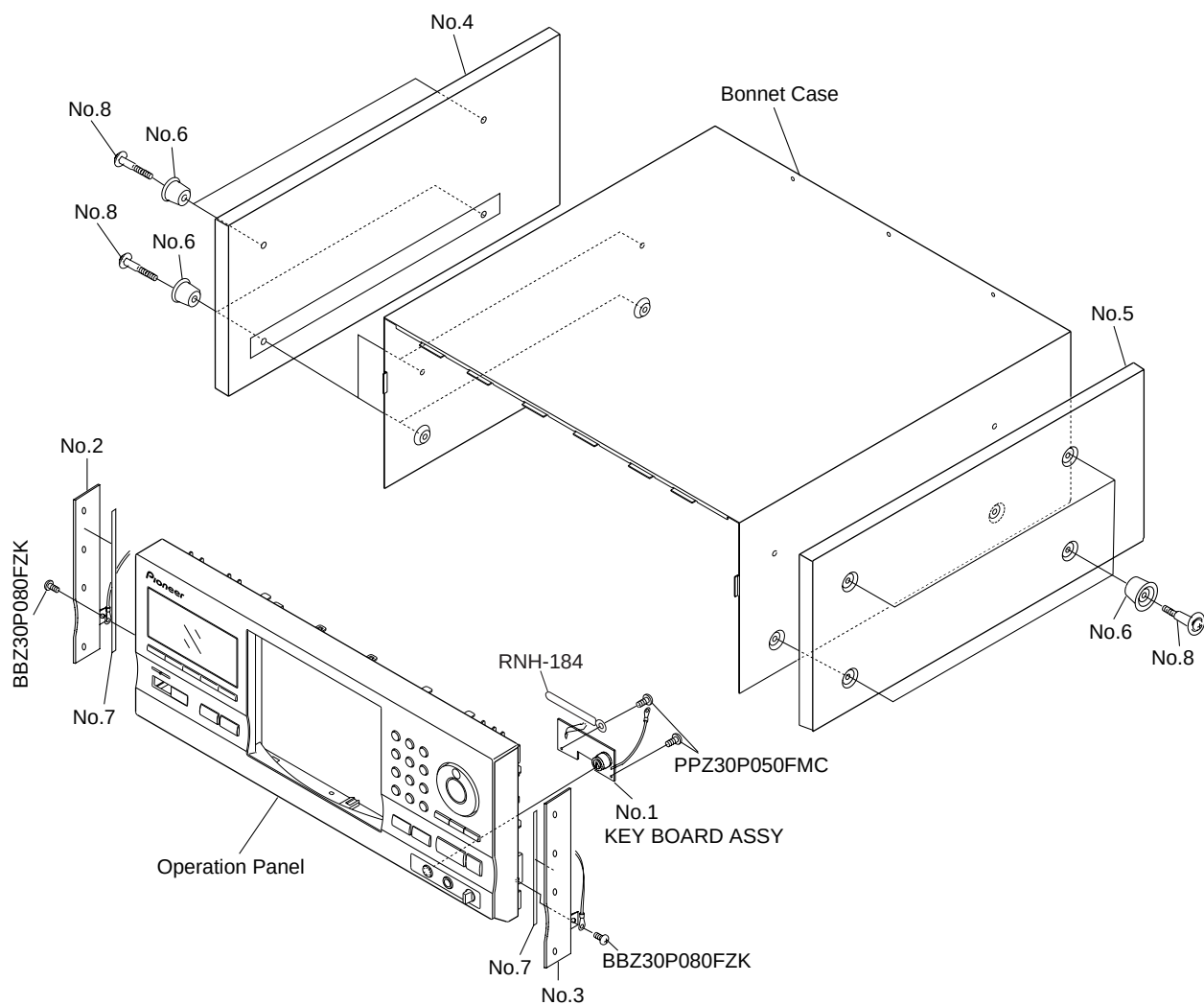
PD-F19/KU and PD-F1007/KU are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks	
			PD-F1007/KU type	PD-F19/KU type		
 P5-1	NSP	ASSEMBLIES MOTHER BOARD ASSY └ MAIN BOARD ASSY └ KEY BOARD ASSY	PWM2252 PWZ3822 Not used	PWM2256 PWZ3826 PWZ3836	No.1	
 P9-1 P5-2	NSP	SUB BOARD ASSY └ DISPLAY BOARD ASSY └ POWER BOARD ASSY	PWX1576 PWZ3839 PWZ3852	PWX1579 PWZ3840 PWZ3855		
P3-1 P3-2 P3-3 P3-6 P3-12	NSP	PACKING Styrol Protector F Styrol Protector R Packing Case Operating Instructions(English) Warranty Card	PHA1325 PHA1326 PHG2316 PRB1271 ARY7023	PHA1336 PHA1337 PHG2340 PRB1276 ARY1026		
P5-8 P5-9 P5-17		NSP	EXTERIOR Bonnet Case Rear Base Hood Side Mole L Side Mole R	PYY1255 PNA2424 PNW2793 Not used Not used	PYY1263 PNA2457 PNW2872 PNA1373 PAN1374	No.2 No.3
			Side Wood L Side Wood R Wood Collar Spacer Screw	Not used Not used Not used Not used Not used	PMM1043 PMM1044 PNW1238 PNM1331 PBA1103	No.4 No.5 No.6 No.7 No.8
P9-4 P9-9 P9-16	FRONT PANEL SECTION F·F·C /30V Connector Name Plate Operation Panel		PDD1189 PAM1776 PNW2794	PDD1188 PAN1376 PNW2818		

NOTE: ● The numbers in the remarks correspond to the numbers on the exploded diagram, Refer to "EXPLODED VIEWS".
● For ASSEMBLIES, Refer to "■ CONTRAST OF PCB ASSEMBLIES" and "2.SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

● EXTERIOR SECTION



■ CONTRAST OF PCB ASSEMBLIES

LF DISPLAY BOARD ASSY

PWZ3840 and PWZ3839 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		PWZ3839	PWZ3840	
	CN701 CN702 R708, R709	HLEM16R-1 Not used Not used	HLEM18R-1 52151-0410 RD1/4PU471J	

Note : Refer to 2. SCHEMATIC DIAGRAM.

OF POWER BOARD ASSY

PWZ3855 and PWZ3852 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		PWZ3852	PWZ3855	
	IC71 D71 , D72 C71 C72 R71 R72 J11 J71 3P CABLE HOLDER HEAT SINK	Not used Not used Not used Not used Not used Not used D20PDY0925B Not used Not used Not used	PQ05RA1 S5688G CEAT332M16 CEAT101M10 RD1/4PU103J RD1/4PU471J D20PDY0925G D20PDY0315E 51048-0300 RNE1011	
NSP				

Note : Refer to 2. SCHEMATIC DIAGRAM.

■ PCB PARTS LIST

Mark	No.	Description	Part No.
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Q KEY BOARD ASSY

SEMICONDUCTORS

D801, D802	DA204K
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CAPACITORS

C805	CEAL101M6R3
C801- C804, C806	CKSQYF104Z50

RESISTORS

R801- R803	RS1/10S0R0J
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OTHERS

J801	4P WIRE 2mmP	D20PWY0455E
NSP J802	LEAD WIRE UNIT	PDF1012
JA801	MIN DIN 6P SOCKET	RKN1038

Mark	No.	Description	Part No.
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KF MAIN BOARD ASSY (PWZ3826)

SEMICONDUCTORS

IC151	CXA1782CQ
IC301	CXD2529Q
△ IC35, IC36	ICP-N10
△ IC203	LA6517
△ IC201, IC202	LA6520

IC302	LC89170M
IC406	M5218AFP
IC352	M5M51008BFP-70LL
IC405, IC407, IC408	NJM4558MD
△ IC23	NJM79M05FA

IC351	PD4996C
IC341	PD0236AM
△ IC21	PQ05RR12
IC401	PE8001A
IC25	S-806E

Mark	No.	Description	Part No.
	IC951		TC74HC157AF
	IC331		TC74HCU04AF
	Q151		2SA854S
	Q391		2SC1740S
	Q362, Q381		2SC2412K
	Q351, Q403, Q404, Q413, Q414		2SD2144S
	Q423, Q424		2SD2144S
	Q152, Q363, Q382, Q406, Q416		DTA124EK
	Q426		DTA124EK
	Q405, Q415, Q425, Q451		DTC124EK
	D351, D352, D391–D397, D958		1SS254
	D401–D404, D951, D953, D956		DA204K
	D957, D959		DA204K
	D54		MTZJ24B
⚠	D11–D14, D52		S5688G
	D218		UDZS6.2B

COILS AND FILTERS

L351	LAU100J
L391, L395, L396	LAU1R0J
L334 (COIL)	PTL1003

CAPACITORS

C449, C450	CCCSL101J50
C181	CCSQCH100D50
C361, C386, C405–C407	CCSQCH101J50
C315	CCSQCH221J50
C403	CCSQCH240J50
C404	CCSQCH300J50
C332	CCSQCH390J50
C171, C175, C27, C29	CEAT101M10
C301, C302, C311–C314, C316	CEAT101M10
C322, C351, C365, C413, C414	CEAT101M10
C51	CEAT101M35
C52	CEAT101M50
C427–C428, C433–C434, C439–C440	CEAT220M25
C131–C133, C211, C212	CEAT330M16
C169, C170, C415, C416	CEAT4R7M50
C335	CEAT470M25
C22	CEATR22M50
C309	CEATR47M50
C954	CFTLA104J50
C441, C442	CKCYB102K50
C1429, C1430, C1435–C1438	CKCYB152K50
C317	CKCYF103Z50
C359, C398, C951, C952	CKCYF473Z50
C163	CKSQYB102K50
C156, C161, C164, C168, C218	CKSQYB103K50
C153–C155, C158, C230, C250	CKSQYB104K25
C176, C306	CKSQYB152K50
C305	CKSQYB222K50
C162	CKSQYB332K50
C160	CKSQYB333K25
C167	CKSQYB472K50
C152, C307	CKSQYB473K25

Mark	No.	Description	Part No.
	C151		CKSQYB682K50
	C157		CKSQYB823K25
	C159, C185, C191, C205, C210		CKSQYF103Z50
	C215, C219, C303, C308, C318		CKSQYF103Z50
	C331, C334, C343, C344, C352		CKSQYF103Z50
	C353, C362, C363, C381, C382		CKSQYF103Z50
	C401, C402, C408, C409, C461		CKSQYF103Z50
	C953		CKSQYF103Z50
	C321, C336, C339, C411, C412		CKSQYF104Z50
	C1431, C1432		CKSQYF104Z50
	C354	(0.1F/5.5V)	PCH1133
	C25, C26	(4700μF/16V)	PCH1135

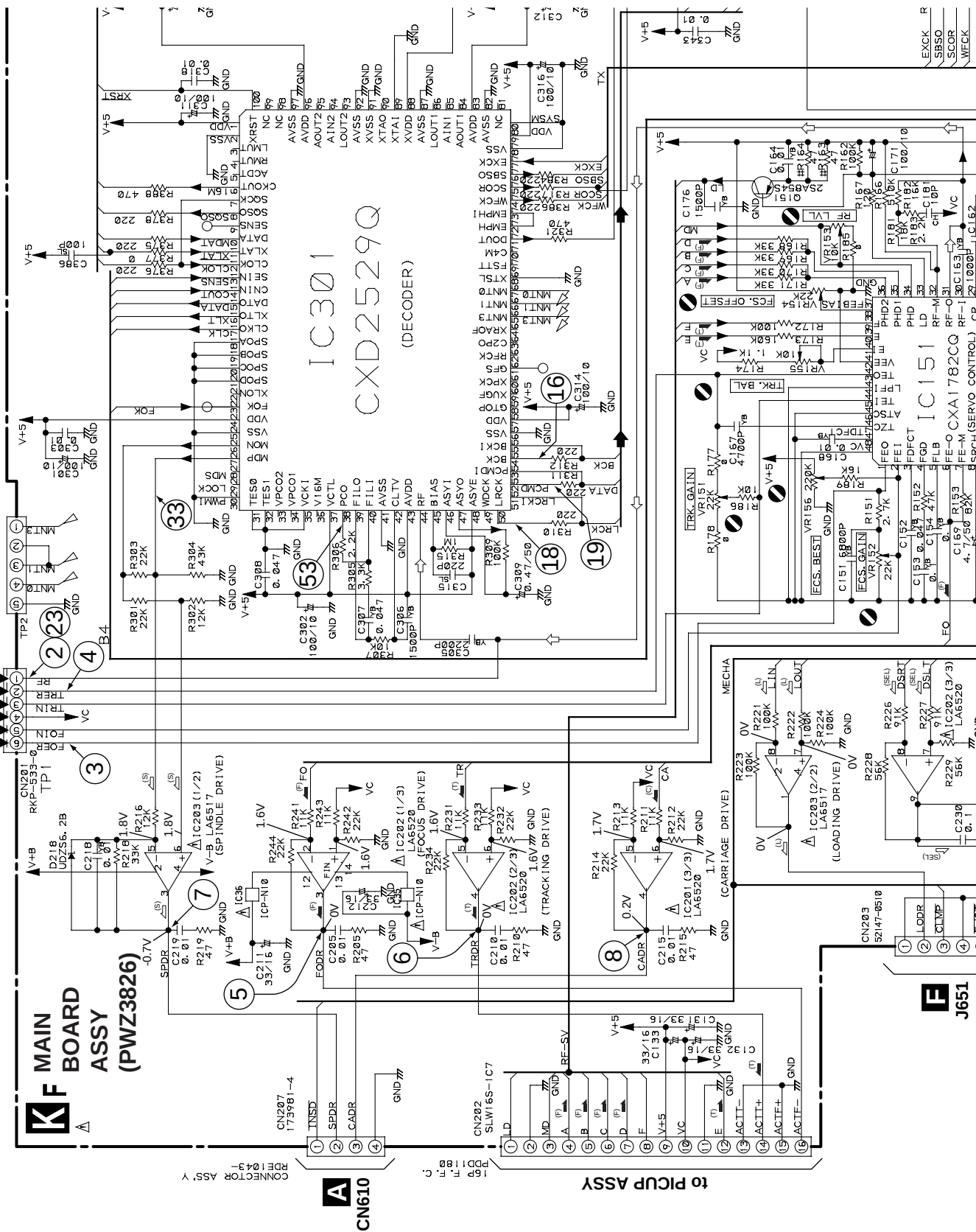
RESISTORS

R56–R59		RD1/4PU241J
R52–R54		RD1/4PU272J
R496, R499, R973, R974		RD1/4PU332J
R977, R978		RD1/4PU332J
R163, R164, R470, R471		RD1/4PU470J
R441, R442, R489, R490		RN1/10SE1002D
R437, R438		RN1/10SE1801D
R459, R460, R463, R464		RN1/10SE2202D
R451–R456		RN1/10SE4702D
VR153, VR155	(10kΩ)	VCP1156
VR151, VR152, VR154	(22kΩ)	VCP1158
VR156	(220kΩ)	VCP1164
Other Resistors		RS1/10S □□□J

OTHERS

CN207	MT 4P CONNECTOR	173981-4
CN12	3P JUMPER CONNECTOR	52147-0310
CN208, CN401	3P JUMPER CONNECTOR	52147-0310
CN205	4P JUMPER CONNECTOR	52147-0410
CN203	5P JUMPER CONNECTOR	52147-0510
CN11, CN204	9P JUMPER CONNECTOR	52147-0910
JA401, JA402	JACK	DKB1031
JA321	OPTICAL LINK OUT	GP1F32T
CN351	CONNECTOR	HLEM18S-1
JA331	1P JACK	PKB1028
JA393	JACK	PKN1005
J391–J392, J951–J952	REMOTE JACK	RKN1004
CN201	6P CONNECTOR	RKP-533
CN202	CONNECTOR	SLW16S-1C7
X401	XTAL. RES. (16.9344MHz)	PSS1008
X351	CERAMIC RESONATOR	VSS1028
	PCB BINDER	VEF1040
	SCREW PLATE	VNE1948

2.1 MAIN BOARD ASSY



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY
ROHM CO., FOR IC35 AND IC36.

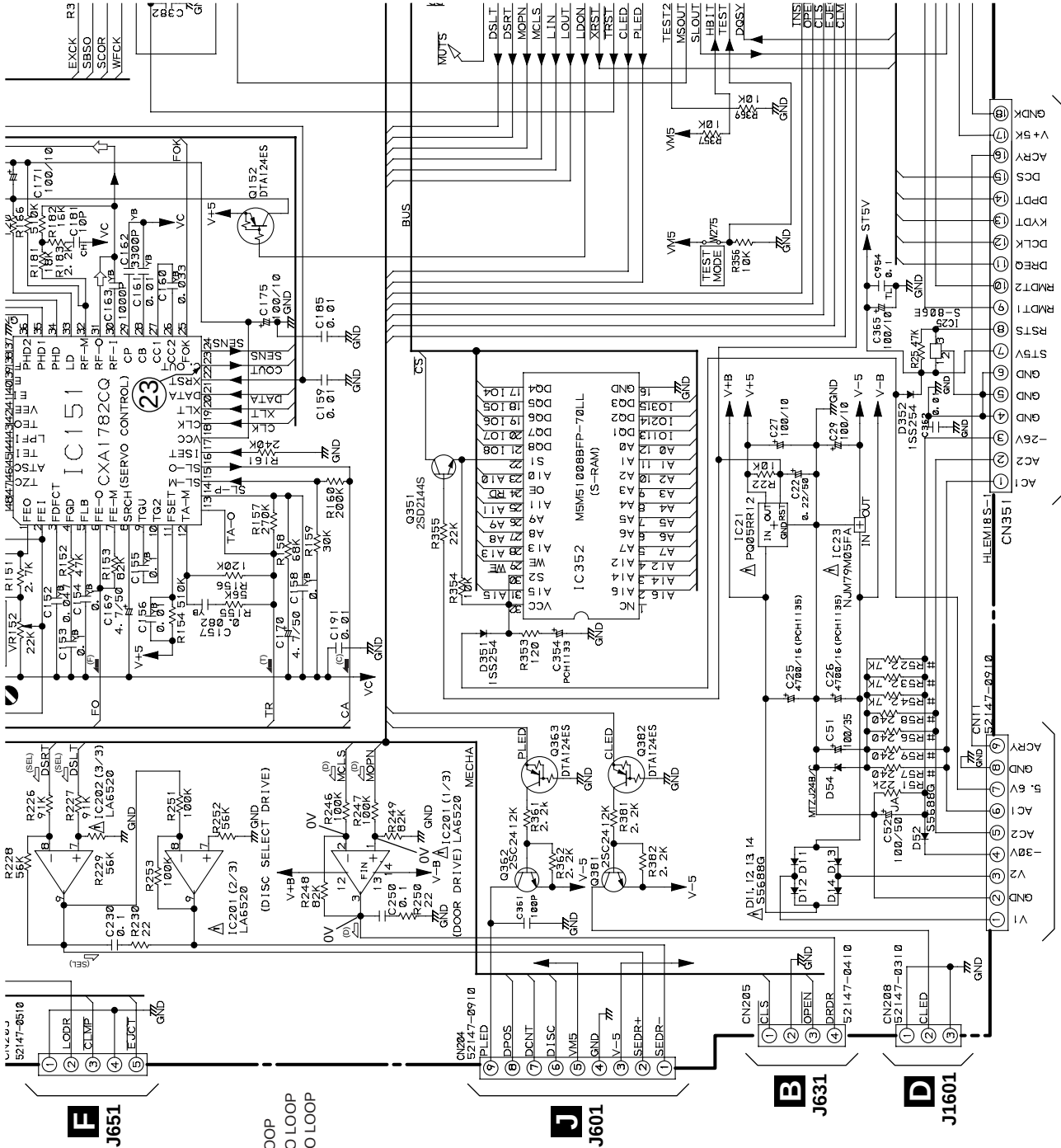
K_F MAIN BOARD ASSY (PWZ381)

to PICUP ASSY

J651

NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

K-a K-b

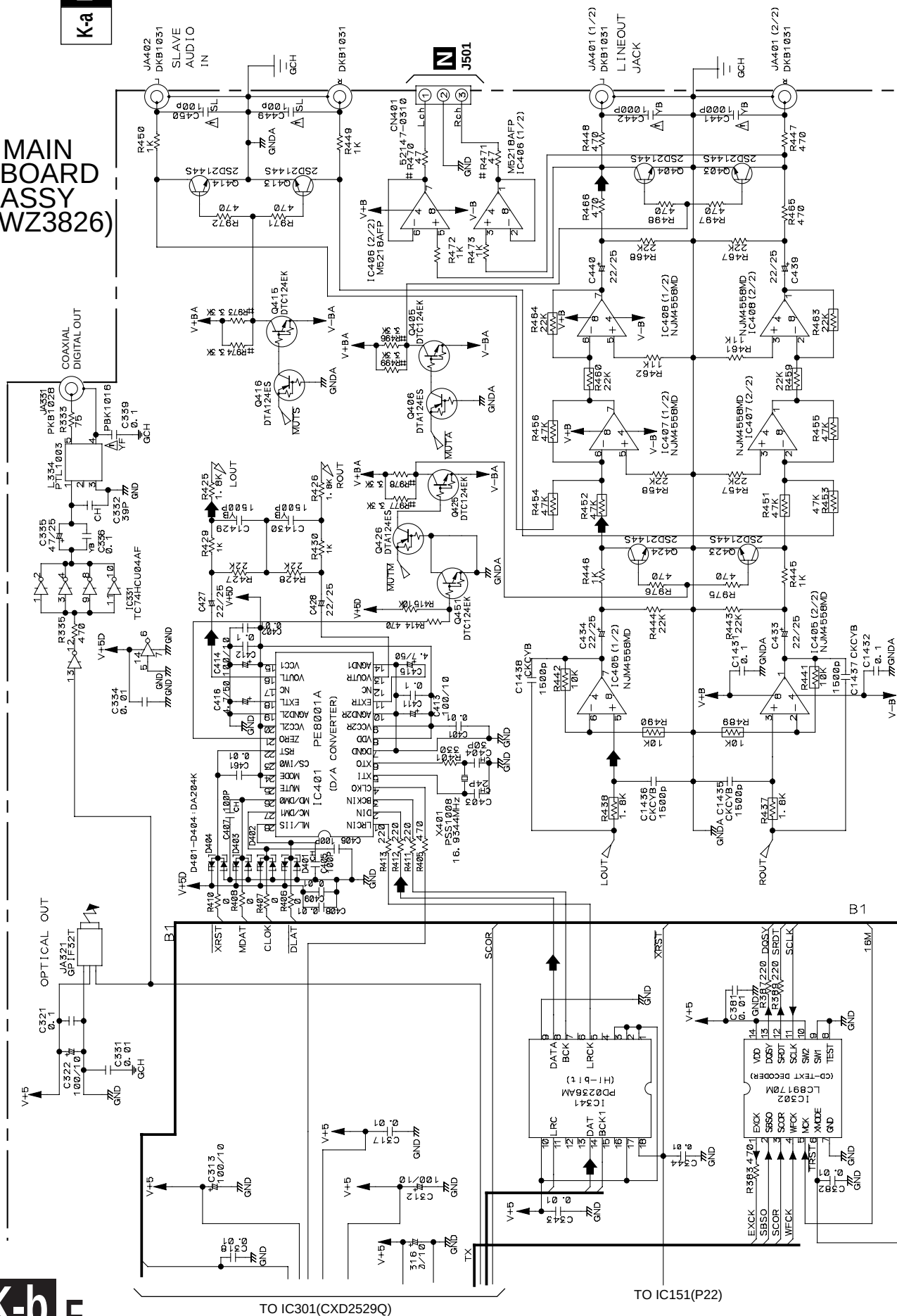
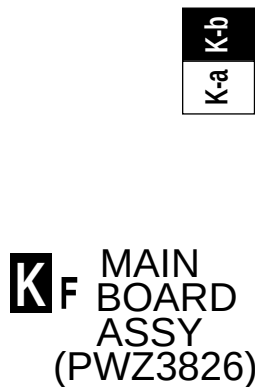


F J701

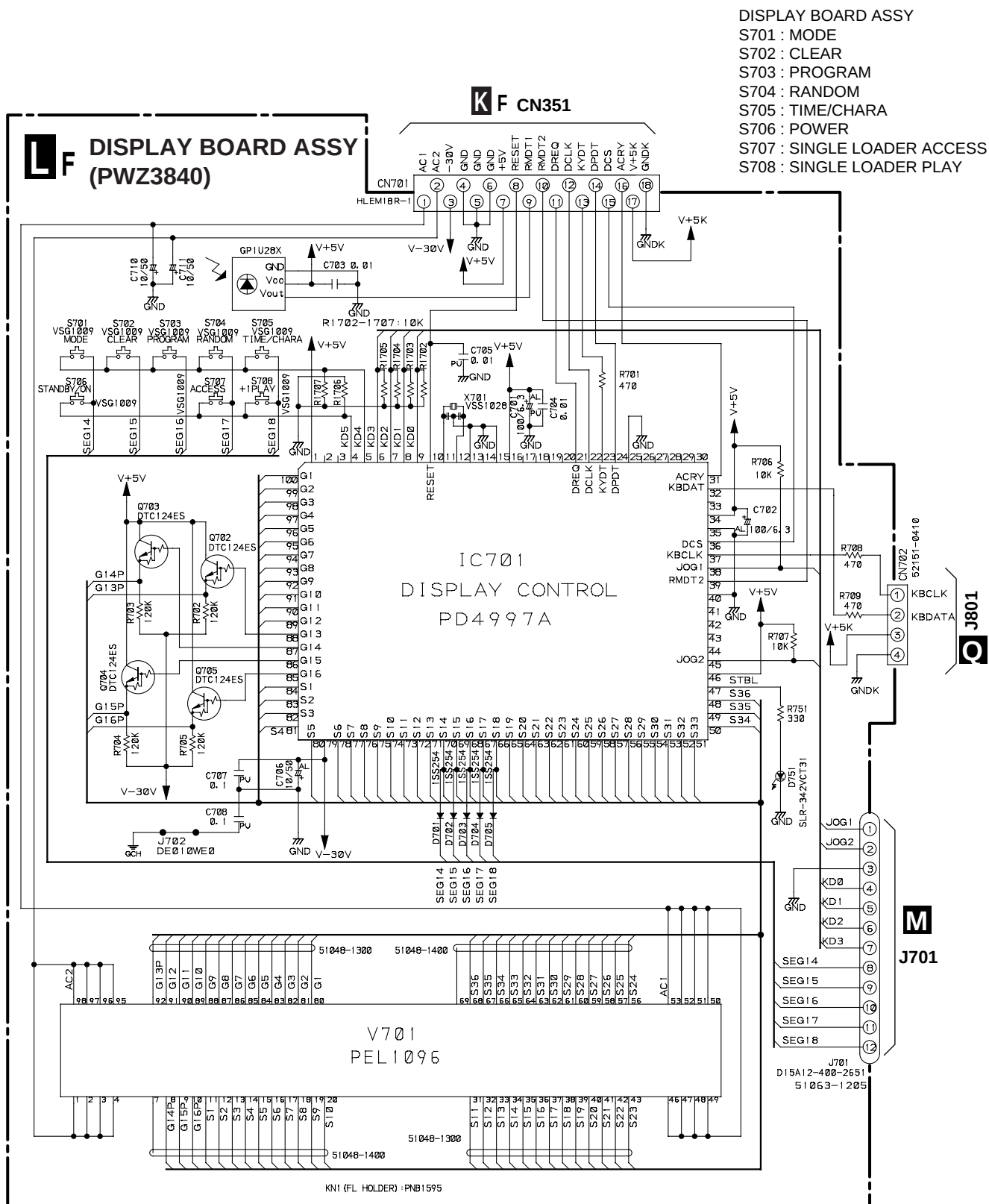
F J11

SIGNAL ROUTE
➡ : AUDIO SIGNAL
⇨ : EFM SIGNAL
⇩ : TRACKING SERVO LOOP
⇧ : CARRIAGE SERVO LOOP
⇨ : SPINDLE DRIVE
⇩ : LOADING DRIVE
⇧ : DOOR DRIVE
⇨ : SELECT DRIVE

K-a F 7



2.2 DISPLAY BOARD ASSY, POWER BOARD ASSY and KEY BOARD ASSY



DISPLAY BOARD ASSY

S701 : MODE

S702 : CLEAR

S703 : PROGRAM

S704 : RANDOM

S705 : TIME/CHARA

S706 : POWER

S707 : SINGLE LOADER ACCESS

S708 : SINGLE LOADER PLAY



3. PCB CONNECTION DIAGRAM

A

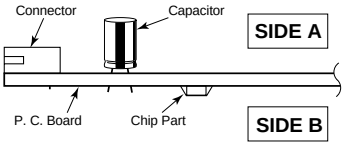
NOTE FOR PCB DIAGRAMS:

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

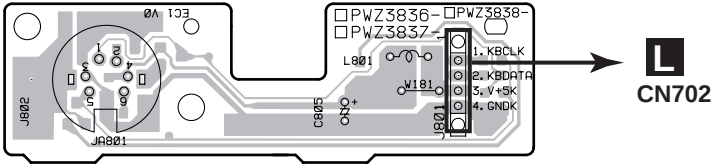
4. Viewpoint of PCB diagrams



B

Q KEY BOARD ASSY

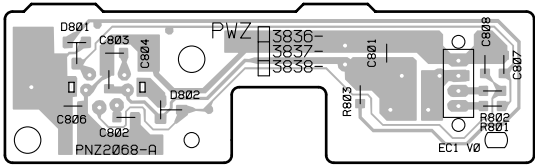
SIDE A



C

Q KEY BOARD ASSY

SIDE B



(PNP1450-A)

D