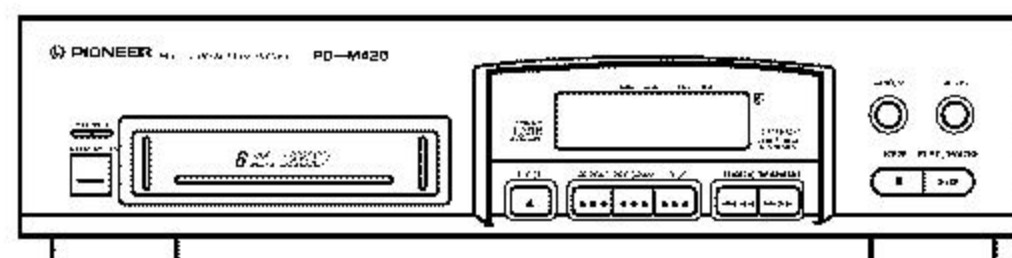


Service Manual

PIONEER®
The Art of Entertainment



ORDER NO.
RRV1868

MULTI COMPACT DISC PLAYER **PD-M426**

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

Type	Model	Power Requirement	The voltage can be converted by the following method.
	PD-M426		
KUXJ/2	○	AC120V	_____
KCXJ/2	○	AC120V	_____
WYXJ/2	○	AC220-240V	_____
WPWXJ/2	○	AC220-240V	_____
RDXJ/2	○	AC110-127V/220-240V	With the voltage selector

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T-DZR OCT. 1997 Printed in Belgium

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

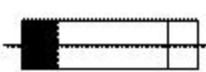
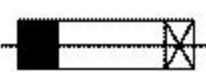
WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

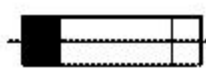
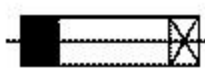
NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

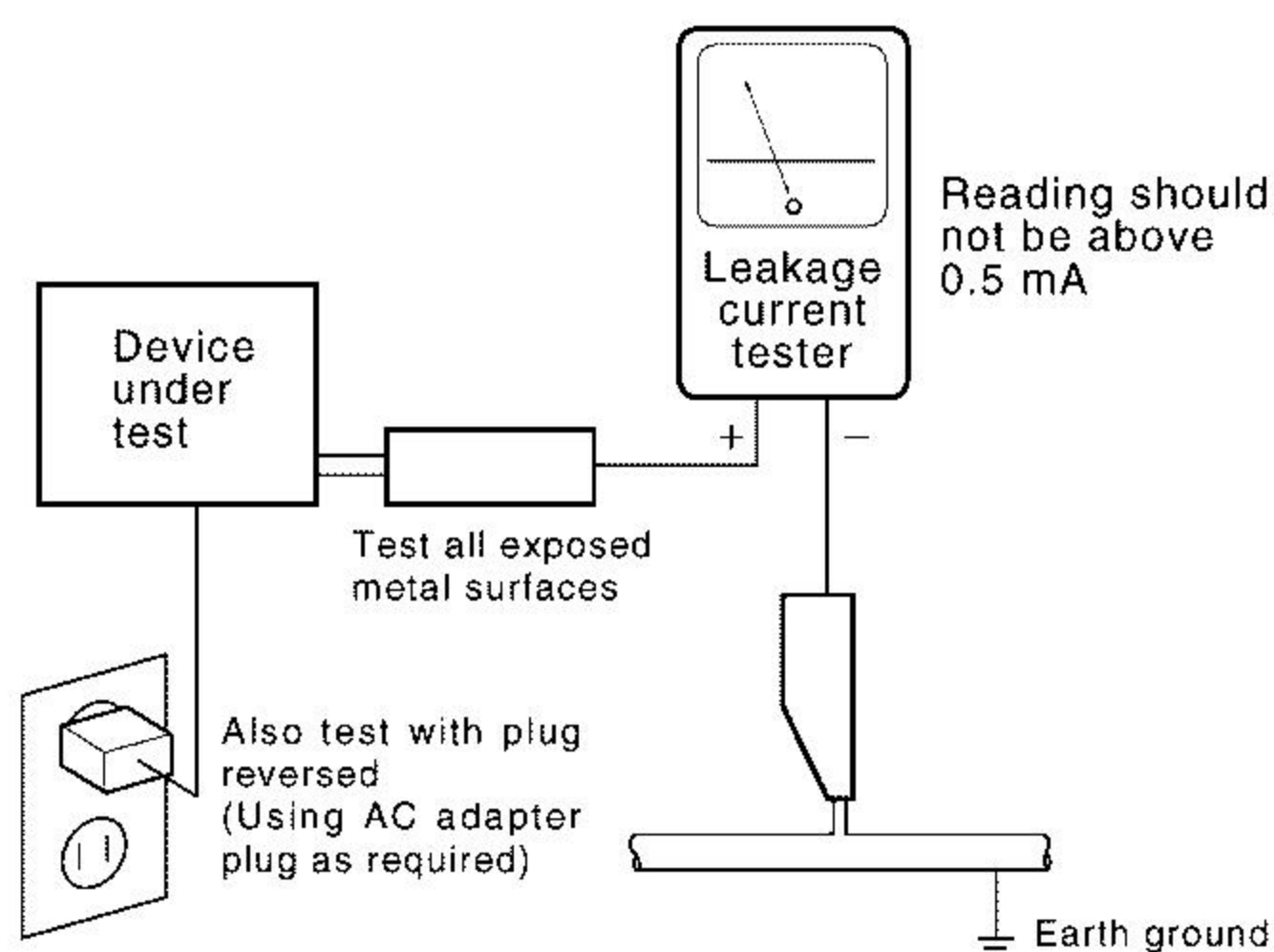
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

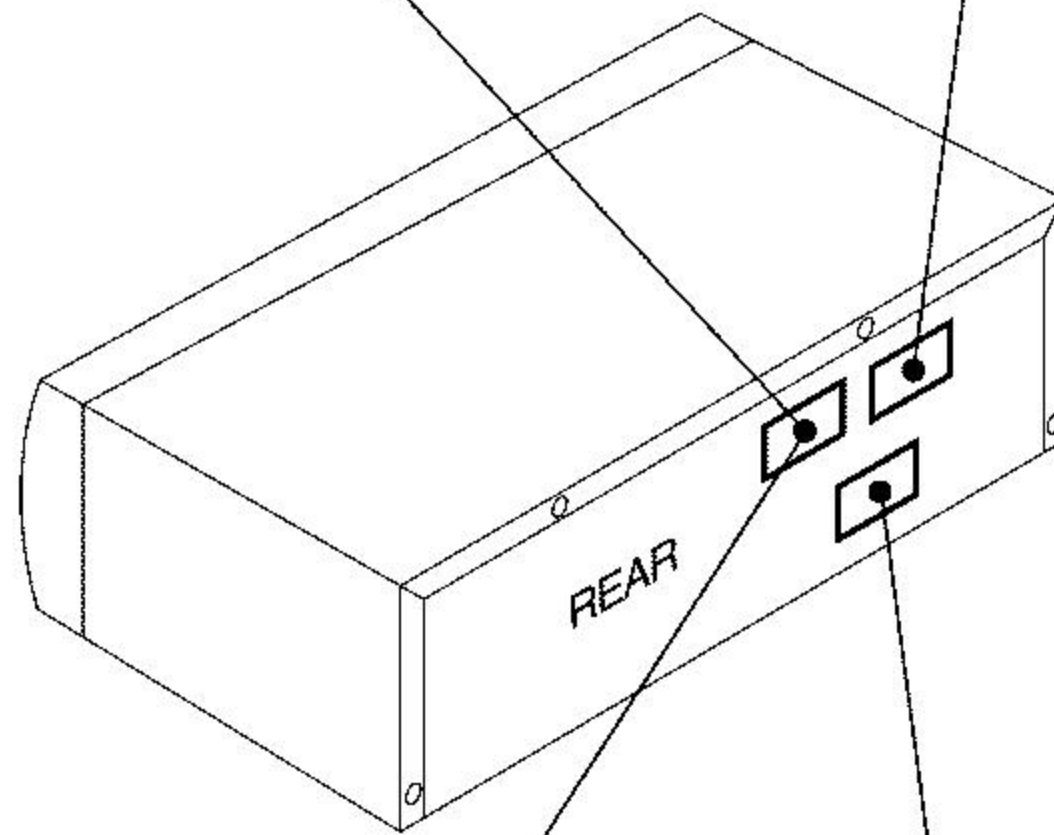
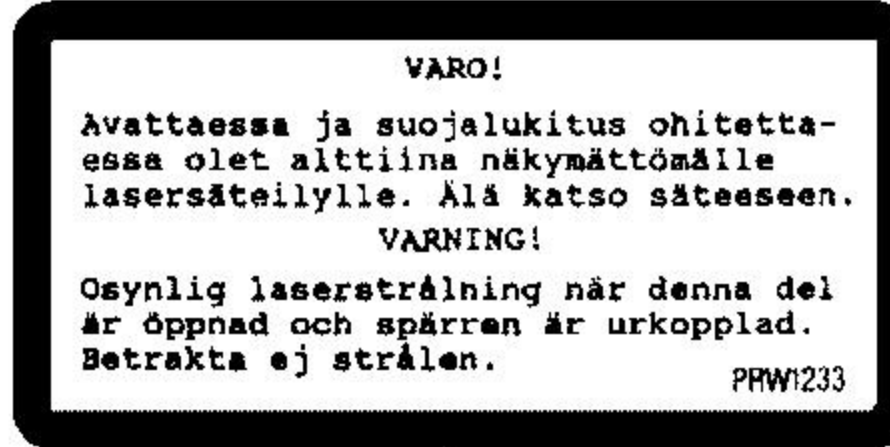
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

LABEL CHECK

WYXJ/2 type



WYXJ/2 type only



WPWXJ/2 type



WPWXJ/2 type only

Additional Laser Caution

1. Laser Interlock Mechanism

The ON/OFF (ON: low level, OFF: high level) status of S601 (LPS1) and S602 (LPS2) switches for detecting the loading state is detected by the system microprocessor, and the design prevents laser diode oscillation except when both switches S601 and S602 are ON (low level or clamped state). Thus, interlock will no longer function if switches S601 (LPS1) and S602 (LPS2) are deliberately shorted (low level). The interlock also does not function in the test mode*.

Laser diode oscillation will continue, if pin 33 of CXA1782CQ (IC151) on the MOTHER BOARD ASSY is connected to GND, or pin 50 of IC351 (LDON) is connected to low level (ON), or else the terminals of Q151 are shorted to each other (fault condition).

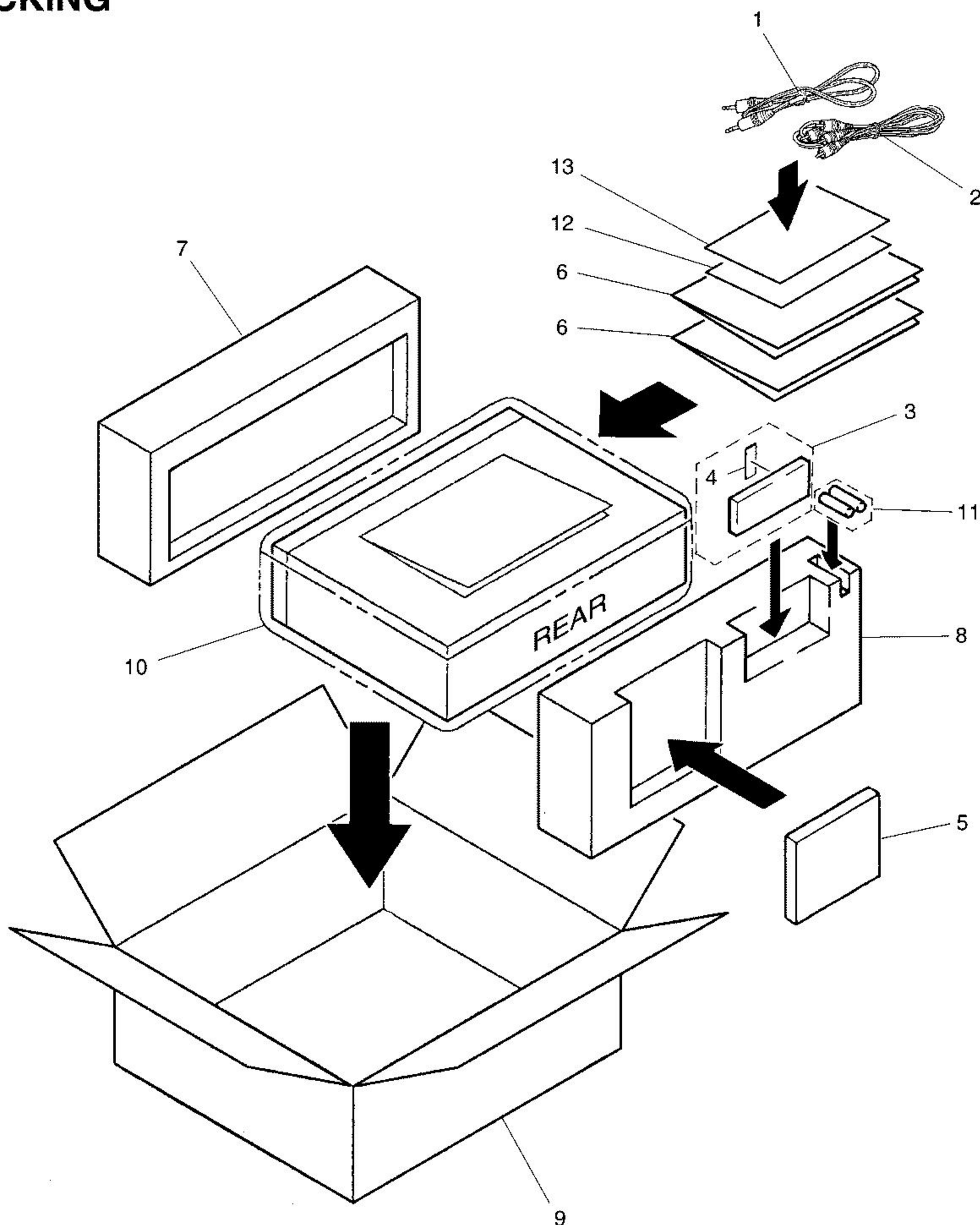
2. When the cover is opened with the servo mechanism block removed to be turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* Refer to page 22.

2. EXPLODED VIEWS AND PARTS LIST

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.
 ● Screw adjacent to ▼ mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

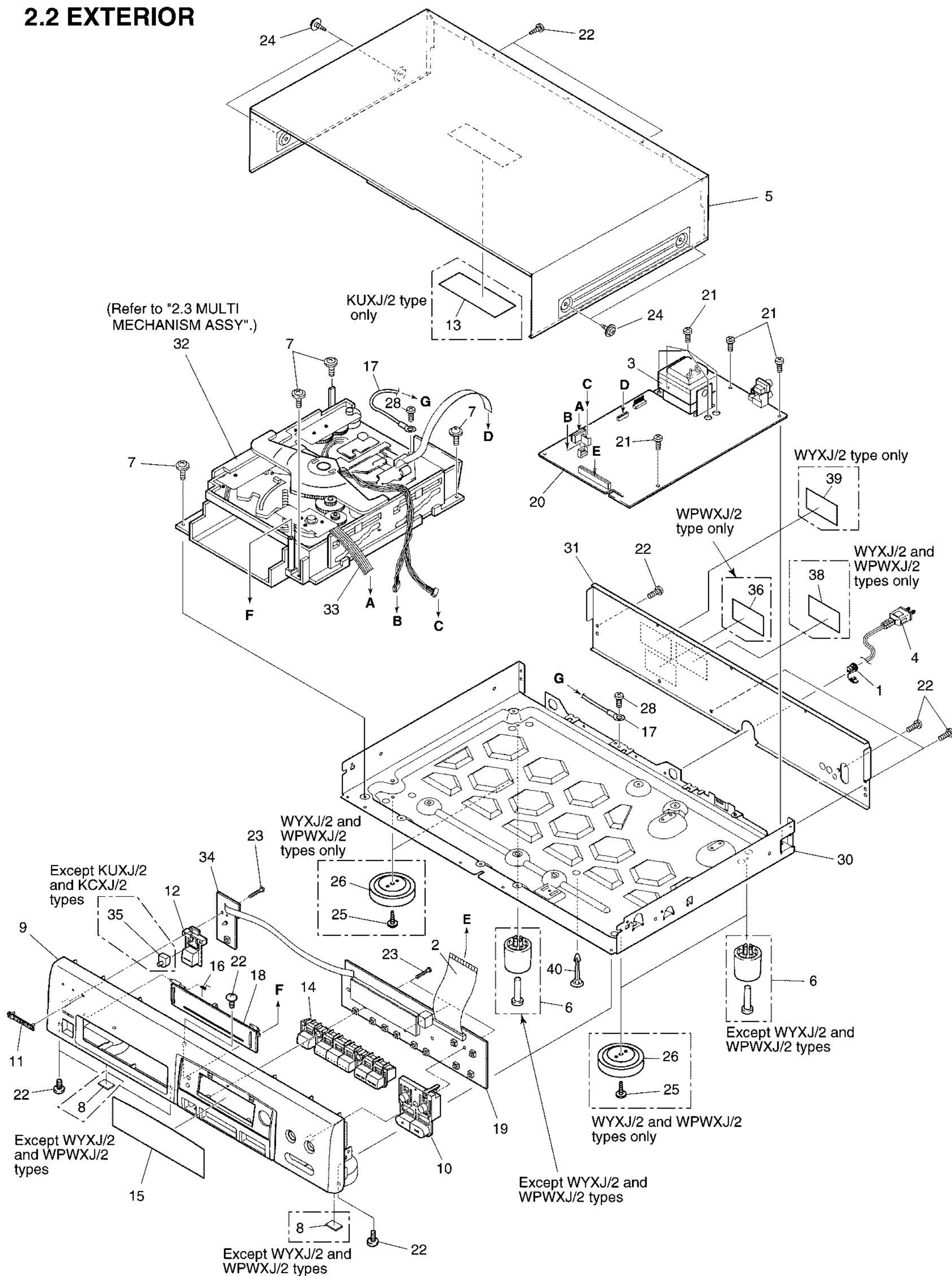
Mark	No.	Description	Parts No.
	1	Control Cable (for SR) (L=1 m)	See Contrast table (2)
	2	Output Cable (L=1 m) (for AUDIO)	PDE1248
	3	Remote Control Unit (CU-PD068)	PWW1107
	4	Battery Cover	PZN1010
	5	6-Compact Disc Magazine	PXA1575
	6	Operating Instructions	See Contrast table (2)
	7	Styrol Protector (F)	PHA1276
	8	Styrol Protector (R)	PHA1277
	9	CD Packing Case	See Contrast table (2)
	10	Mirror Mat Sheet	Z23-007
NSP	11	Dry Cell Battery (AAA/R03)	VEM-022
NSP	12	Warranty Card	See Contrast table (2)
	13	Caution 220V Label	See Contrast table (2)

(2) CONTRAST TABLE

PD-M426/KUXJ/2, KCXJ/2, WYXJ/2, WPWXJ/2 and RDXJ/2 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.					Remarks
			KUXJ/2	KCXJ/2	WYXJ/2	WPWXJ/2	RDXJ/2	
	1	Control Cable (for SR) (L=1 m)	PDE1247	PDE1247	Not used	Not used	PDE1247	
	6	Operating Instructions (English)	PRB1255	Not used	Not used	PRB1255	Not used	
	6	Operating Instructions (English/French)	Not used	PRE1257	PRE1257	Not used	Not used	
	6	Operating Instructions (German/Italian/Dutch/Swedish/ Spanish/Portuguese)	Not used	Not used	RRD1018	Not used	Not used	
	6	Operating Instructions (English/Spanish/Chinese)	Not used	Not used	Not used	Not used	PRE1255	
	9	CD Packing Case	PHG2287	PHG2289	PHG2309	PHG2243	PHG2243	
NSP	12	Warranty Card	ARY1051	ARY1075	ARY7009	PRY1003	Not used	
	13	Caution 220V Label	Not used	Not used	Not used	Not used	ARR1003	

2.2 EXTERIOR



(1) EXTERIOR PARTS LIST

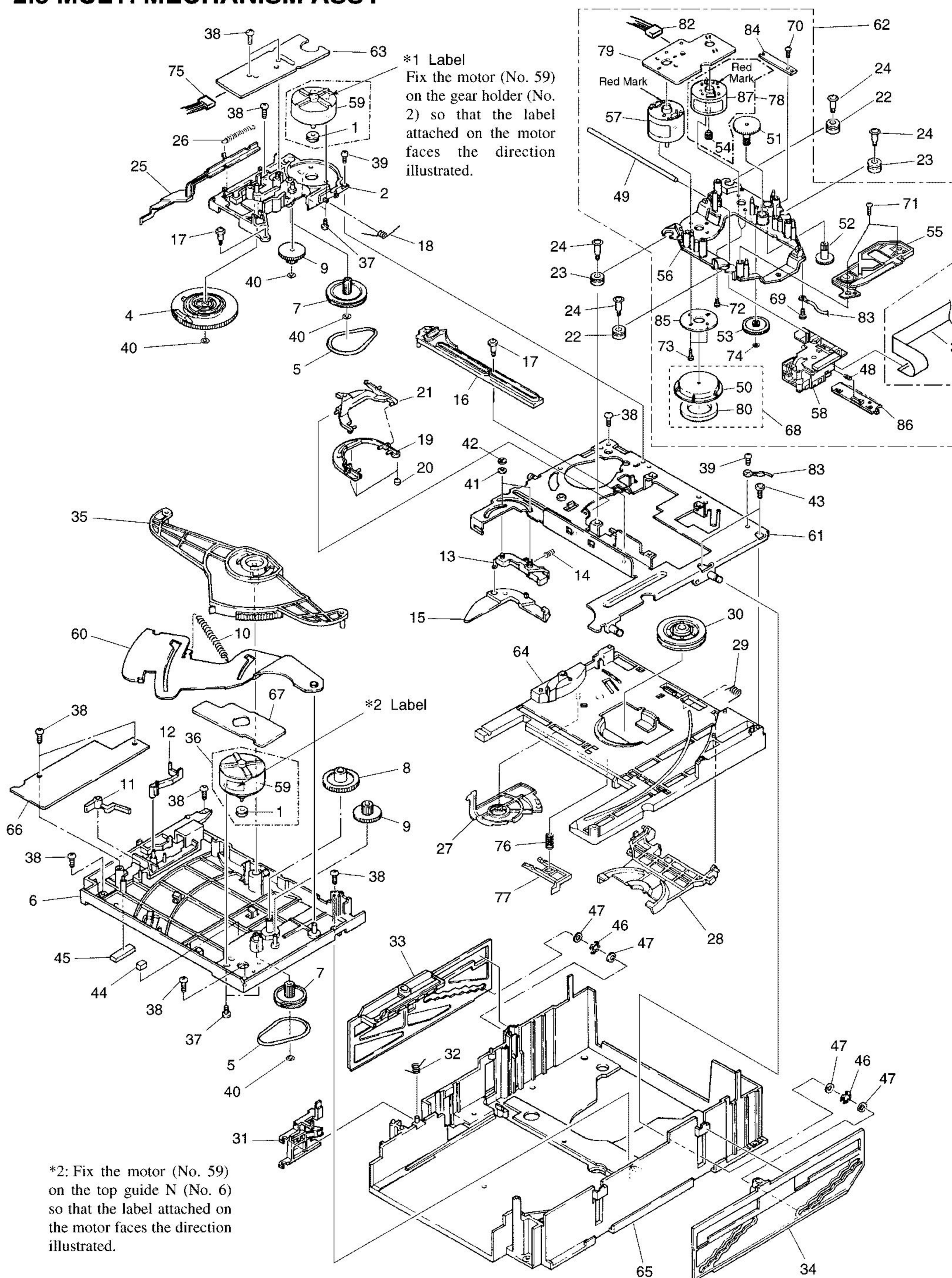
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
⚠	1	Strain Relief	See Contrast table (2)		26	Insulator	See Contrast table (2)
	2	32P F.F.C/30V	PDD1041		27		
⚠	3	Power Transformer	See Contrast table (2)		28	Screw	PDZ30P050FMC
⚠	4	AC Power Cord	See Contrast table (2)		29		
	5	Bonnet	PYY1149	NSP	30	Under Base	PNA1751
	6	Foot Assy	See Contrast table (2)		31	Rear Base	See Contrast table (2)
	7	Screw	IBZ30P080FCC	NSP	32	Multi Mechanism Assy	PXA1592
	8	Rubber Sheet	See Contrast table (2)		33	Flat Cable (6P)	D20PYY0615E
	9	Function Panel	See Contrast table (2)	NSP	34	SW BOARD Assy	See Contrast table (2)
	10	Play Button	PAC1766		35	LED Lens	See Contrast table (2)
	11	Name Plate	PAM1608	NSP	36	Caution Label (F)	See Contrast table (2)
	12	Power Button	PAC1719		37		
	13	65 Label	See Contrast table (2)		38	Caution Label	See Contrast table (2)
	14	Track Button	PAC1765		39	Caution Label (HE)	See Contrast table (2)
	15	Display Window	See Contrast table (2)	NSP	40	Locking Card Spacer	PEC1036
NSP	16	Spring (Door)	PBH1022				
	17	Earth Lead Unit	DE007VF0				
	18	Door	PNW2598				
	19	FUNCTION BOARD Assy	PWZ2769				
⚠	20	MOTHER BOARD Assy	See Contrast table (2)				
	21	Screw	BBZ30P060FMC				
	22	Screw	BBZ30P080FZK				
	23	Screw	PPZ30P120FMC				
	24	Screw	FBT40P080FZK				
	25	Screw	IBZ30P100FCC				

(2) CONTRAST TABLE

PD-M426/KUXJ/2, KCXJ/2, WYXJ/2, WPWXJ/2 and RDXJ/2 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.					Remarks
			KUXJ/2	KCXJ/2	WYXJ/2	WPWXJ/2	RDXJ/2	
⚠	1	Strain Relief	CM-22C	CM-22C	CM-22B	CM-22B	CM-22B	
⚠	3	Power Transformer	PTT1237	PTT1237	PTT1236	PTT1236	PTT1238	
⚠	4	AC Power Cord	PDG1015	PDG1015	PDG1003	ADG1123	PDG1013	
	6	Foot Assy	AEC1531	AEC1531	Not used	Not used	AEC1531	
	8	Rubber Sheet	AEB1111	AEB1111	Not used	Not used	AEB1111	
	9	Function Panel	PNW2725	PNW2725	PNW2726	PNW2726	PNW2727	
	13	65 Label	ORW1069	Not used	Not used	Not used	Not used	
	15	Display Window	PAM1731	PAM1731	PAM1671	PAM1635	PAM1731	
⚠	20	MOTHER BOARD Assy	PWM2154	PWM2154	PWM2156	PWM2156	PWM2155	
	26	Insulator	Not used	Not used	PNW1912	PNW1912	Not used	
	31	Rear Base	PNA2394	PNA2394	PNA2413	PNA2412	PNA2411	
NSP	34	SW BOARD Assy	PWZ2804	PWZ2804	PWZ2805	PWZ2805	PWZ2805	
	35	LED Lens	Not used	Not used	PNW2019	PNW2019	PNW2019	
NSP	36	Caution Label (F)	Not used	Not used	Not used	VRW-328	Not used	
	38	Caution Label	Not used	Not used	VRW1094	PRW1018	Not used	
	39	Caution Label (HE)	Not used	Not used	PRW1233	Not used	Not used	

2.3 MULTI MECHANISM ASSY

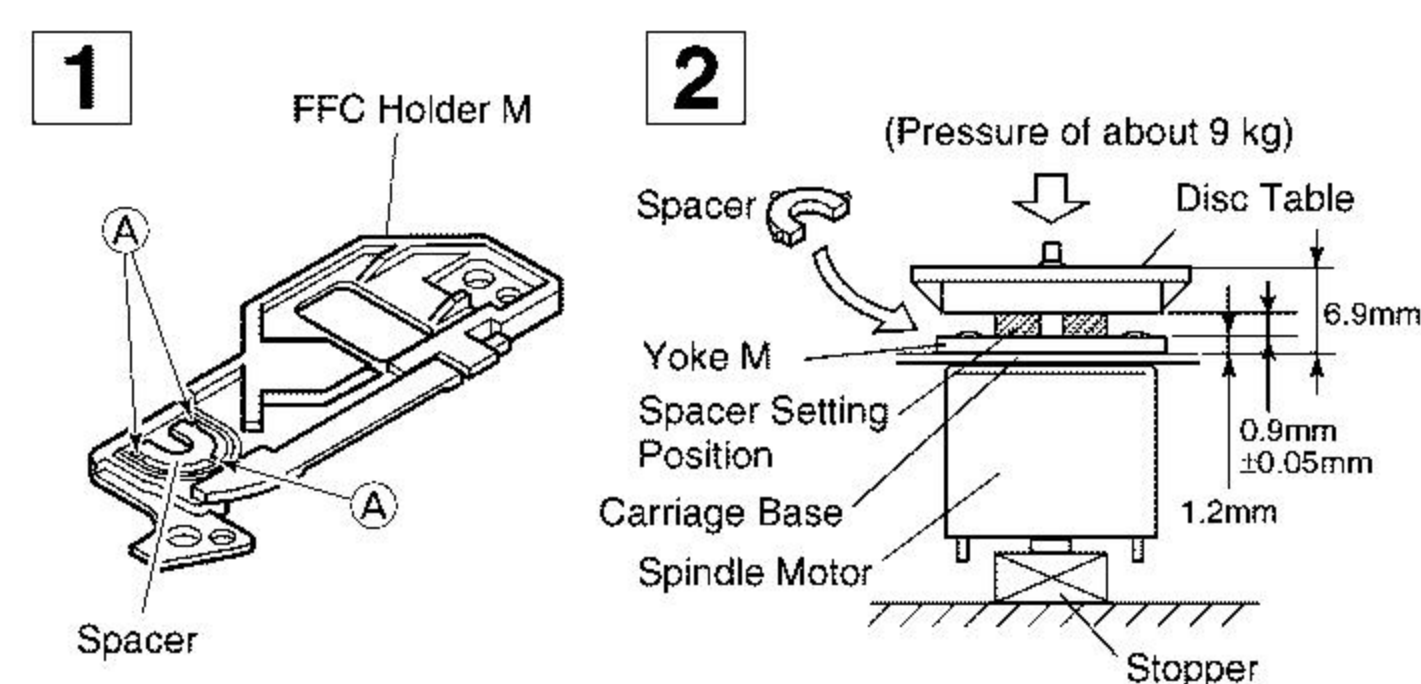


MULTI MECHANISM ASSY PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	Motor Pulley	PNW1634		56	Carriage Base	PNW2699
	2	Gear Holder	PNW1929		57	D.C. Motor Assy (Spindle with oil)	PEA1235
	3	PU PWB (POLYIMDE)	PNP1442		58	Pickup Assy	PEA1335
	4	Cam Gear	PNW1923		59	Carriage Motor	VXM1033
	5	Belt	PEB1138		60	Eject Lever	PNB1306
	6	Top Guide N	PNW2441		61	Upper Chassis	PNB1267
	7	Gear Pulley	PNW1918	NSP	62	Servo Mechanism Assy M	PXA1595
	8	Gear S	PNW1919	NSP	63	LOADING BOARD Assy	PWZ2038
	9	Gear L	PNW1920		64	Sub Chassis N	PNW2440
	10	Eject Spring	PBH1107		65	Main Chassis	PNW2074
	11	SW Lever	PNW1927	NSP	66	SELECT BOARD Assy	PWZ2533
	12	Seven Bar	PNW1931	NSP	67	MOTOR BOARD Assy	PWZ2040
	13	Sub Revolving Lever	PNW1933		68	Disc Table Assy	PEA1035
	14	Sub Revolving Lever Spring	PBH1111		69	Screw	BBZ26P060FMC
	15	Revolving Lever	PNW1932		70	Screw	BPZ20P060FMC
	16	Drive Plate	PNW1930		71	Screw	BPZ26P100FMC
	17	Motor Screw	PBA-112		72	Screw	JFZ17P025FZK
	18	Holder Lever Spring	PBH1110		73	Screw	JFZ20P040FMC
	19	Disc Holder	PNW1924		74	Washer	WT12D032D025
	20	Cushion A	PED1001		75	Connector Assy	PDE1241
	21	Holder Lever	PNW1925		76	Stopper Spring	PBH1131
	22	Float Rubber	PEB1014		77	Stopper	PNW2069
	23	Float Rubber	PEB1132		78	D.C. Motor Assy (CARRIAGE)	PEA1246
	24	Float Screw	PBA1073	NSP	79	MECHANISM BOARD Assy	PWX1192
	25	Release Lever	PNW1934		80	Clamp Magnet	PMF1014
	26	Release Spring	PBH1106		81		
	27	Clamper Cam	PNW1922		82	Connector Assy	PDE1240
	28	Clamper Holder	PNW1921	NSP	83	Earth Lead Unit	PDF1118
	29	Centering Spring	PBH1109		84	Gear Stopper	PNB1303
	30	Clamper	PNW2777		85	Yoke M	PNB1312
	31	Lock Lever	PNW1917		86	Rack Holder	PNW2056
	32	Lock Spring	PBH1108		87	Carriage DC Motor	PXM1027
	33	Stair NL	PNW2443				
	34	Stair NR	PNW2444				
	35	Synchronize Lever	PNW1926				
	36	Motor Assy (LOADING, DISC SELECT)	PEA1130				
	37	Screw	PMZ26P040FMC				
	38	Screw	PPZ30P080FMC				
	39	Screw	BBZ30P060FMC				
	40	Washer	WT26D047D025				
	41	Washer	WA31D054D025				
	42	E Ring	Z39-010				
	43	Screw	IPZ30P080FMC				
	44	Spacer (Rubber)	PEB1238				
	45	Spacer (Rubber)	PEB1179				
	46	Silent Ring	PBK1093				
	47	Washer	WA62D130D025				
	48	Rack Spring	PBH1128				
	49	Guide Bar	PLA1094				
	50	Disc Table	PNW1067				
	51	Gear 1	PNW2052				
	52	Gear 2	PNW2053				
	53	Gear 3	PNW2054				
	54	Pinion Gear	PNW2055				
	55	FFC Holder M	PNW2746				

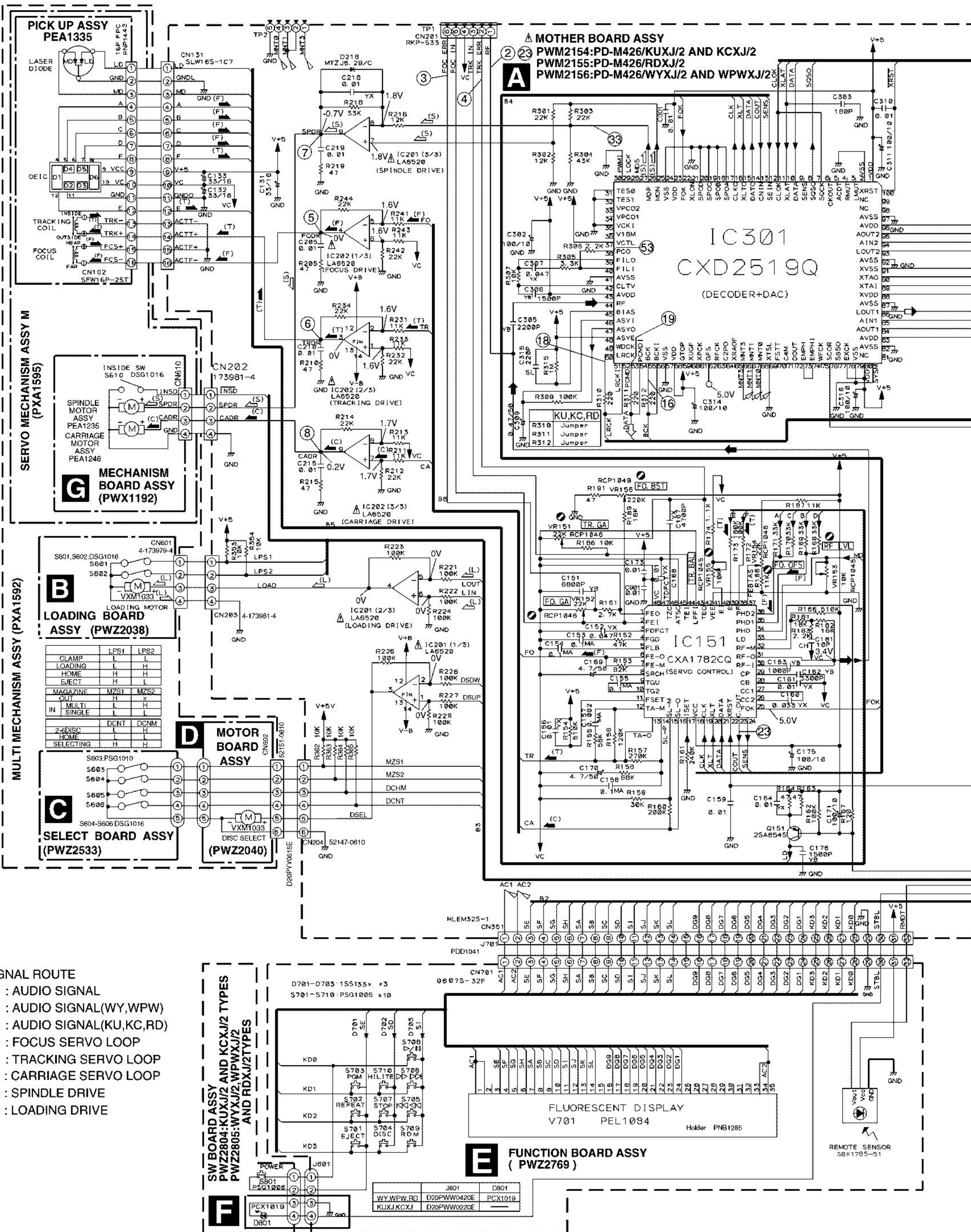
● How to Install the Disc Table

- 1 Use nipper or other tool to cut the three sections marked (A) in figure 1. Then remove the spacer
- 2 While supporting the spindle motor shaft with the stopper, put spacer on top of the yoke M, and stick the disc table on top (takes about 9kg pressure). Detach the spacer.



3. SCHEMATIC DIAGRAM

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

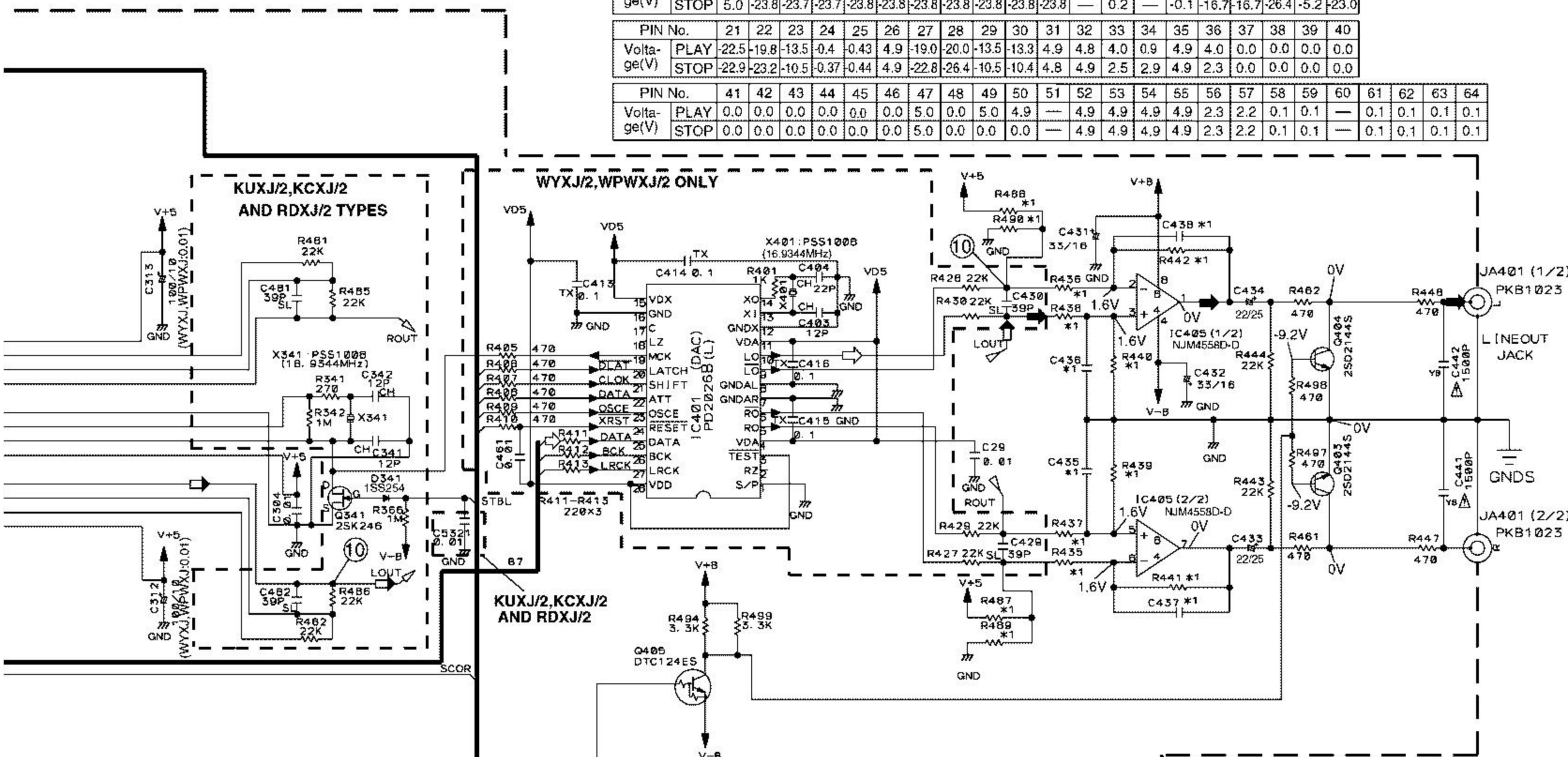


IC351(PD4836A) PLAY:1DISC PLAY.

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Volta-ge(V)	PLAY	5.0	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-	4.9	-	-0.1	-16.8	-17.0	-25.9	-5.2	-22.2
	STOP	5.0	-23.8	-23.7	-23.7	-23.8	-23.8	-23.8	-23.8	-23.8	-23.8	-	0.2	-	-0.1	-16.7	-16.7	-26.4	-5.2	-23.0

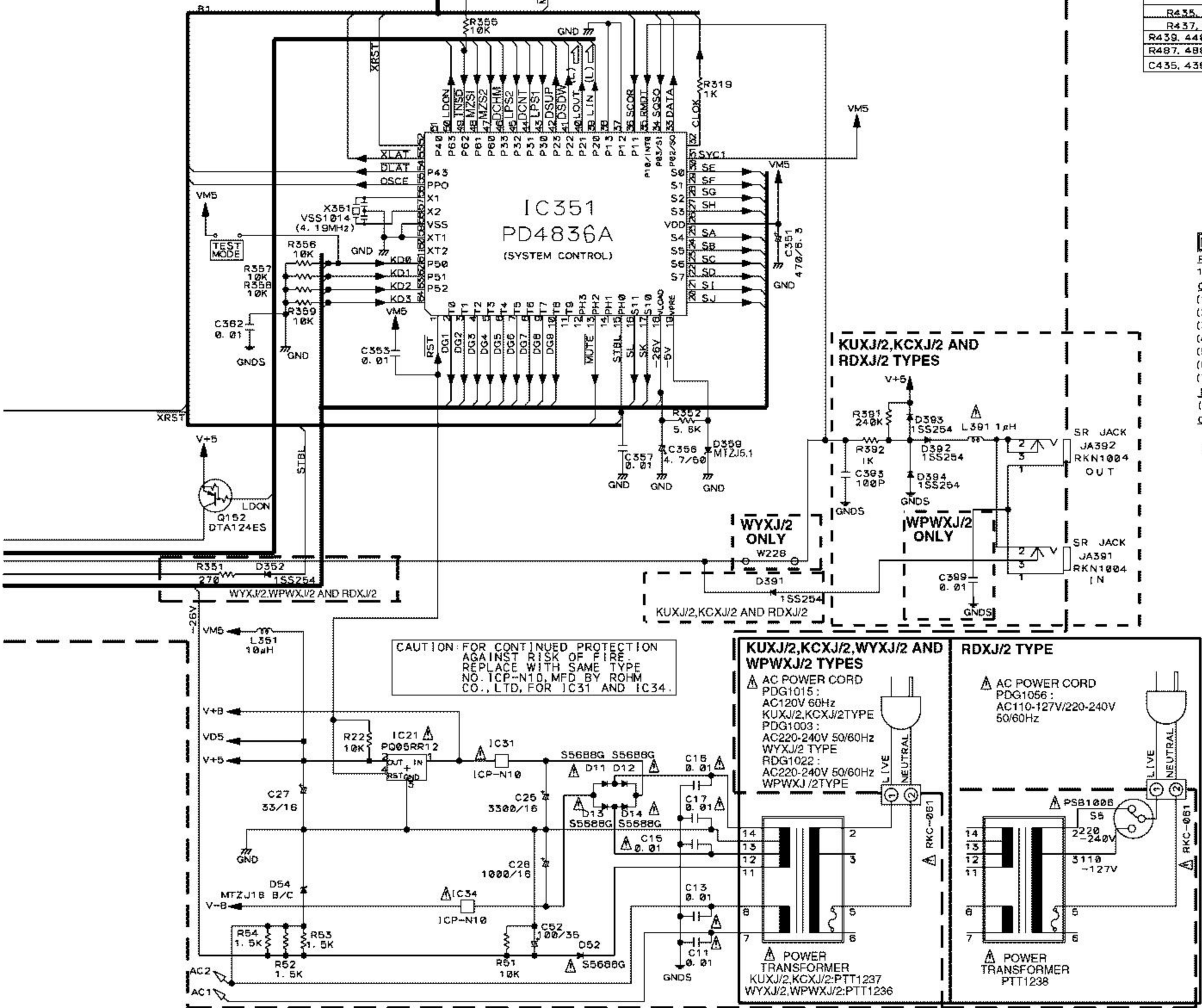
PIN No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Volta-ge(V)	PLAY	22.5	-19.8	-13.5	-0.4	0.43	4.9	-19.0	20.0	-13.5	13.3	4.9	4.8	4.0	0.9	4.9	4.0	0.0	0.0	0.0
	STOP	22.9	-23.2	-10.5	-0.37	0.44	4.9	-22.8	26.4	-10.5	10.4	4.8	4.9	2.5	2.9	4.9	2.3	0.0	0.0	0.0

PIN No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Volta-ge(V)	PLAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	-	4.9	4.9	4.9	2.3	2.2	0.1	0.1	-	0.1	0.1	0.1
	STOP	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	-	4.9	4.9	4.9	2.3	2.2	0.1	0.1	-	0.1	0.1	0.1	0.1



*1	WY,WPW	KU,KC,RD
R435, 436	16K	Jumper
R437, 438	16K	47K
R439, 440, 441, 442	43K	82K
R487, 488, 489, 490	-----	180K
C435, 436, 437, 438	39P	-----

NOTE
RESISTORS
1/4W Type
CAPACITORS
(1)M:MYLAR CGMA or CFTYA or Film
(2)YB: Ceramic CKCYB
(3)CH: Ceramic CCCCH
(4)VX: Ceramic CGCYX
(5)SL: Ceramic CCCSL
(6)Unmarked type CKCYF
(7)TX: FILM CFTXA
INDUCTORS
(1)Unmarked type Axial: type LAU
OTHERS
↓: CHASSIS GROUND
ABC: LOW ACTIVE SIGNAL



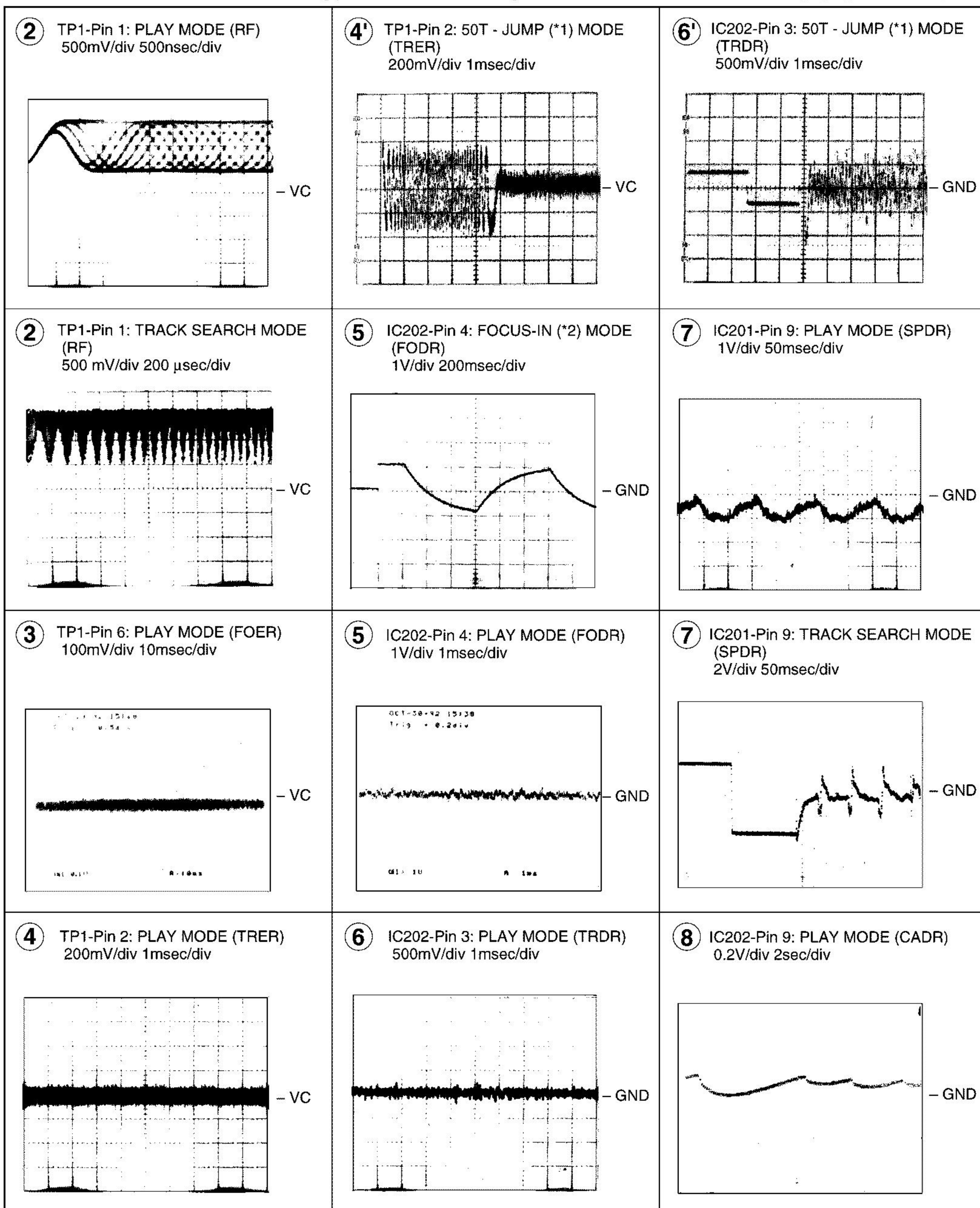
- FUNCTION BOARD ASSY
S701: EJECT
S702: REPEAT
S703: PGM
S704: DISC
S705: TRACK
S706: MANUAL SEARCH REV
S707: STOP
S708: RANDOM
S710: HI-LITESCAN
SW BOARD ASSY
S801: POWER STANDBY/ON

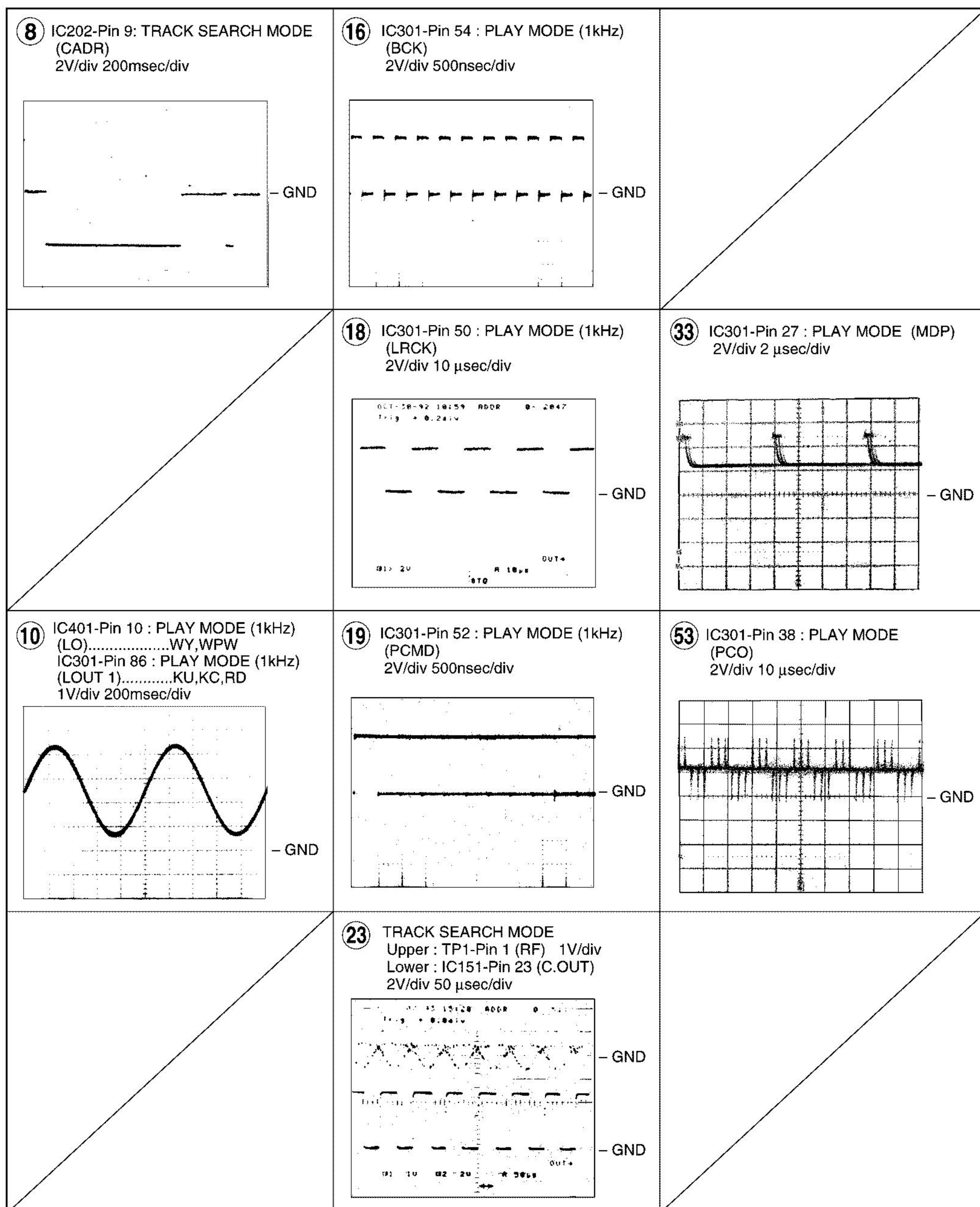
Waveforms

Note: The encircled numbers denote measuring point in the schematic diagram.

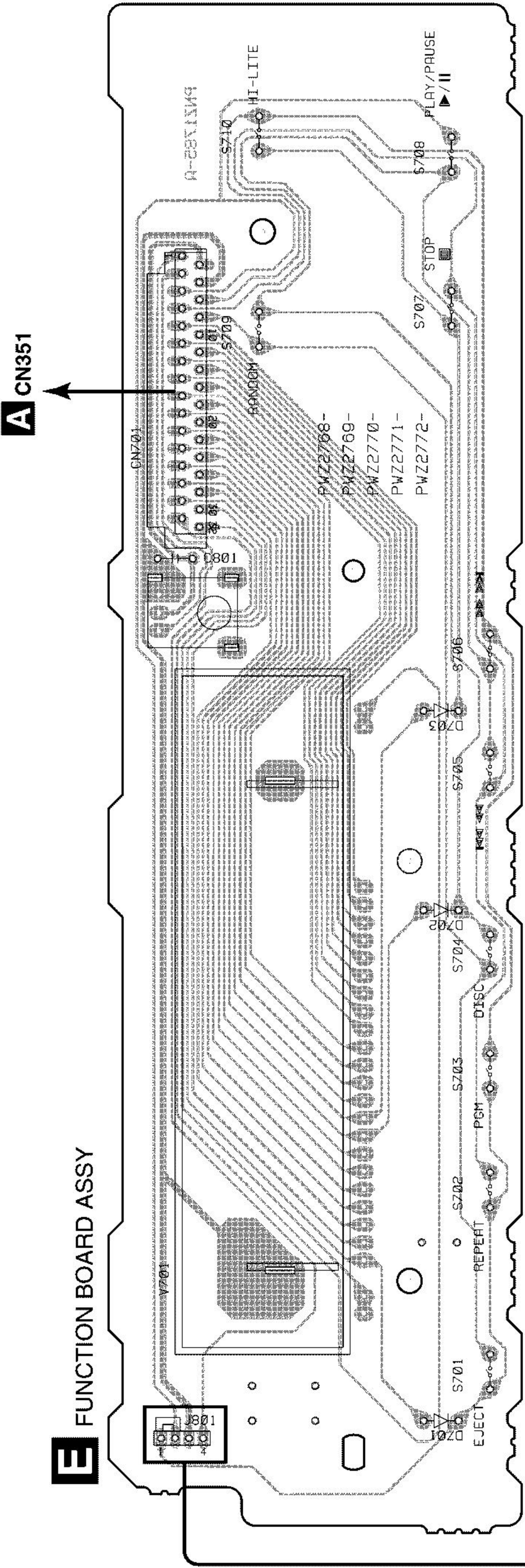
*1 50T-JUMP: After switching to the pause mode, press the manual search key.

*2 FOCUS-IN: Press the play key without loading a disc.



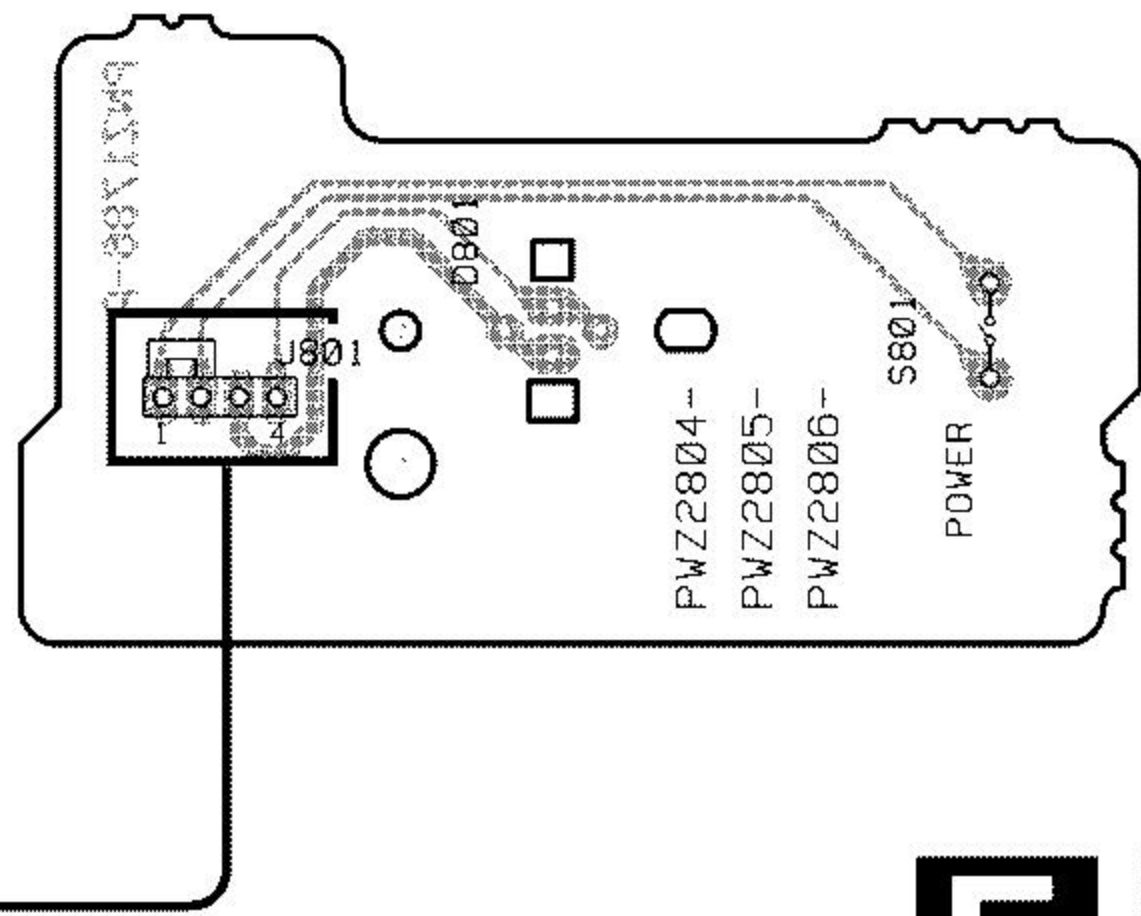


4.2 FUNCTION BOARD ASSY AND SW BOARD ASSY



PNP1366-A

F SW BOARD ASSY



NOTE FOR PCB DIAGRAMS:

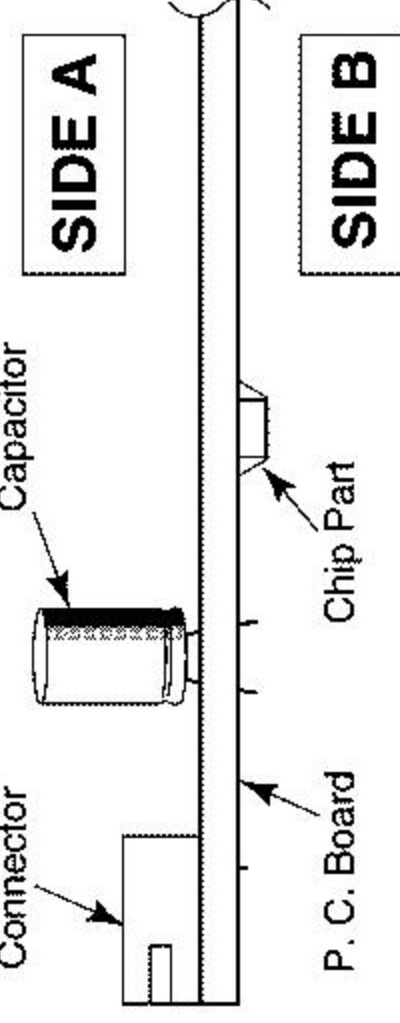
- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Resistor array
		3-terminal regulator

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

4. Viewpoint of PCB diagrams



SIDE A

4.3 MOTHER BOARD ASSY

SIDE A

A MOTHER BOARD ASSY

AC POWER CORD

PRIMARY

NEUTRAL LIVE

VOLTAGE
SELECTOR

To PICKUP ASSY

CN610

CN602

CN601

CN701

PNP1424-B

Q391
Q452
Q454
Q404
Q403
Q453
Q451

Q405
IC406

IC405

IC31

VR151
VR152

IC401

IC34

IC202
IC21
Q321

VR155

VR156

Q341

VR153
VR154

Q151

Q152

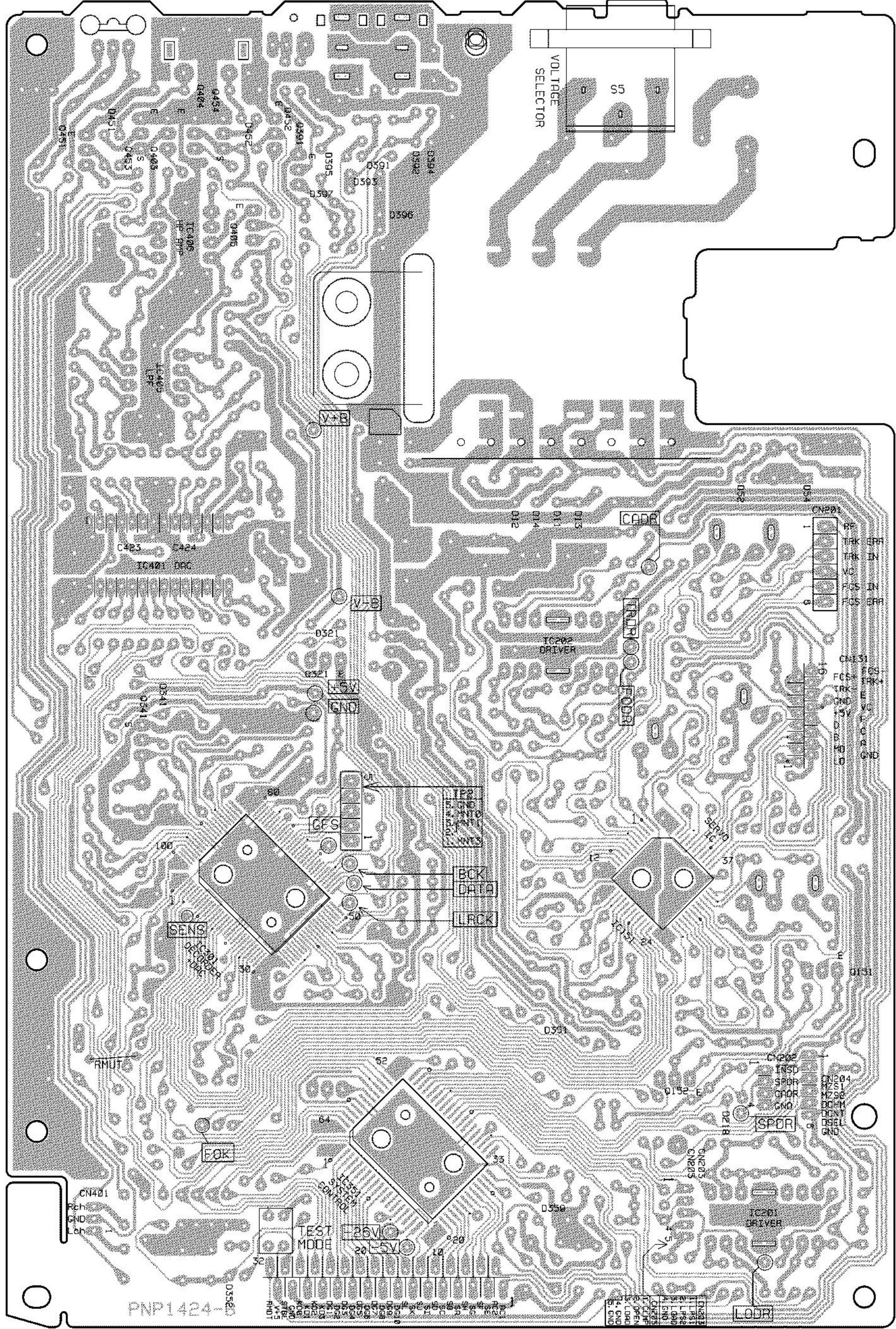
Q201

SIDE B

A MOTHER BOARD ASSY

IC301
IC151

IC351



PNP1424-B

A

5. PCB PARTS LIST

- NOTES :**
- Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
 - The $\triangle$ 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.
 - 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 $\begin{matrix} 5 & 6 & 1 \end{matrix} J$
 47k $\Omega \rightarrow 47 \times 10^3 \rightarrow 473$ RD1/4PU $\begin{matrix} 4 & 7 & 3 \end{matrix} J$
 0.5 $\Omega \rightarrow R50$ RN2H $\begin{matrix} R & 5 & 0 \end{matrix} K$
 1 $\Omega \rightarrow 1R0$ RS1P $\begin{matrix} 1 & R & 0 \end{matrix} K$
- 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 $\begin{matrix} 5 & 6 & 2 & 1 \end{matrix} F$

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.					Remarks
		KUXJ/2	KCXJ/2	WYXJ/2	WPWXJ/2	RDXJ/2	
$\triangle$	MOTHER BOARD Assy	PWM2154	PWM2154	PWM2156	PWM2156	PWM2155	
NSP	SUB BOARD Assy	PWX1336	PWX1336	PWX1337	PWX1337	PWX1337	
	└ FUNCTION BOARD Assy	PWZ2769	PWZ2769	PWZ2769	PWZ2769	PWZ2769	
NSP	└ SW BOARD Assy	PWZ2804	PWZ2804	PWZ2805	PWZ2805	PWZ2805	
NSP	MULTI MECHANISM Assy	PXA1592	PXA1592	PXA1592	PXA1592	PXA1592	
NSP	└ MECHA BOARD Assy	PWX1279	PWX1279	PWX1279	PWX1279	PWX1279	
NSP	└ LOADING BOARD Assy	PWZ2038	PWZ2038	PWZ2038	PWZ2038	PWZ2038	
NSP	└ MOTOR BOARD Assy	PWZ2040	PWZ2040	PWZ2040	PWZ2040	PWZ2040	
NSP	└ SELECT BOARD Assy	PWZ2533	PWZ2533	PWZ2533	PWZ2533	PWZ2533	
NSP	└ SERVO MECHANISM Assy M	PXA1595	PXA1595	PXA1595	PXA1595	PXA1595	
NSP	└ MECHANISM BOARD Assy	PWX1192	PWX1192	PWX1192	PWX1192	PWX1192	

■ CONTRAST OF PCB ASSEMBLIES

SW BOARD Assy

PWZ2804 and PWZ2805 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		PWZ2804	PWZ2805	
NSP	D801 J801	Not used D20PWW0220E	PCX1019 D20PWW0420E	

MOTHER BOARD Assy

PWM2154, PWM2155 and PWM2156 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		PWM2154	PWM2155	PWM2156	
$\triangle$	IC401 Q341 D341, D391–D394 D352 L391 S5	Not used 2SK246 1SS254 Not used LAU1R0J Not used	Not used 2SK246 1SS254 1SS254 LAU1R0J PSB1006	PD2026B (L) Not used Not used 1SS254 Not used Not used	

MOTHER BOARD Assy

Mark	Symbol and Description	Part No.			Remarks
		PWM2154	PWM2155	PWM2156	
	C29, C461 C312, C313 C341, C342 C393 C403	Not used CEAS101M10 CCCCCH120J50 CCCSL101J50 Not used	Not used CEAS101M10 CCCCCH120J50 CCCSL101J50 Not used	CKCYF103Z50 CKCYF103Z50 Not used Not used CCCCCH120J50	
	C404 C413–C416 C429, C430, C435–C438 C431, C432 C481, C482	Not used Not used Not used Not used CCCSL390J50	Not used Not used Not used Not used CCCSL390J50	CCCCCH220J50 CFTXA104J50 CCCSL390J50 CEAT330M16 Not used	
	R310–R312 R341 R342, R366 R351 R391	Not used RD1/4PU271J RD1/4PU105J Not used PD1/4PU244J	Not used RD1/4PU271J RD1/4PU105J RD1/4PU271J PD1/4PU244J	RD1/4PU221J Not used Not used RD1/4PU271J Not used	
	R392 R401 R405–R410 R411–R413 R427–R430	RD1/4PU102J Not used Not used Not used Not used	RD1/4PU102J Not used Not used Not used Not used	Not used RD1/4PU102J RD1/4PU471J RD1/4PU221J RD1/4PU223J	
	R435, R436 R437, R438 R439–R442 R481, R482, R485, R486 R487–R490	Not used RD1/4PU473J RD1/4PU823J RD1/4PU223J RD1/4PU104J	Not used RD1/4PU473J RD1/4PU823J RD1/4PU223J RD1/4PU104J	RD1/4PU163J RD1/4PU163J RD1/4PU433J Not used Not used	
	JA391, JA392 X341 X401	RKN1004 PSS1008 Not used	RKN1004 PSS1008 Not used	Not used Not used PSS1008	

■ PARTS LIST FOR PD-M426/KUXJ/2

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
A MOTHER BOARD ASSY							
SEMICONDUCTORS							
	IC151	CXA1782CQ			D341, D391–D394		1SS254
	IC301	CXD2519Q			D54		MTZJ18B
⚠	IC31, IC34	ICP–N10			D359		MTZJ5.1B
⚠	IC201, IC202	LA6520					
	IC405	NJM4558D–D					
	IC351	PD4836A			D218		MTZJ6.2B
⚠	IC21	PQ05RR12		⚠	D11–D14, D52		S5688G
	Q151	2SA854S		COILS AND FILTERS			
	Q403, Q404	2SD2144S		L351	AXIAL INDUCTOR		LAU100J
	Q341	2SK246		L391	AXIAL INDUCTOR		LAU1R0J
	Q152	DTA124ES		CAPACITORS			
	Q405	DTC124ES					
					C181		CCCCCH100D50
					C341, C342		CCCCCH120J50
					C393		CCCSL101J50
					C383		CCCSL181J50
					C315		CCCSL221J50

PD-M426

Mark	No.	Description	Parts No.
	C481, C482 C171, C175, C302, C311–C314 C316 C52 C26	CCCSL390J50 CEAS101M10 CEAS101M10 CEAS101M35 CEAS102M16	
	C433, C434 C131–C133, C27 C25 C351 C169, C170, C356	CEAS220M25 CEAS330M16 CEAS332M16 CEAS471M6R3 CEAS4R7M50	
	C309 C156, C161, C164, C168, C218 C160 C167 C152, C307	CEASR47M50 CGCYX103K25 CGCYX333K25 CGCYX472K25 CGCYX473K25	
	C157 C163 C176, C306, C441, C442 C305 C162	CGCYX823K25 CKCYB102K50 CKCYB152K50 CKCYB222K50 CKCYB332K50	
	C151 C11, C13, C15, C159 C16, C17, C205, C210, C215 C219, C301, C304, C310, C353 C357	CKCYB682K50 CKCYF103Z50 CKCYF103Z50 CKCYF103Z50 CKCYF103Z50	
	C153–C155, C158	CQMA104J50	

RESISTORS

VR153, VR155 (10k Ω)	RCP1045
VR151, VR152, VR154 (22k Ω)	RCP1046
VR156 (220k Ω)	RCP1049
Other Resistors	RD1/4PU□□□J

OTHERS

CN202	MT 4P CONNECTOR	173981–4
CN203	CONNECTOR 4P	4–173981–4
CN204	6P JUMPER CONNECTOR	52147–0610
CN351	32P FFC CONNECTOR	HLEM32S–1
JA401	2P PIN JACK	PKB1023
X341	(16.9344 MHz) TERMINAL	PSS1008
JA391, JA392	SR JACK	RKC–061
CN201	CONNECTOR 6P	RKN1004
CN131	FFC CONNECTOR	RKP–533
X351	(4.19 MHz)	SLW16S–1C7
		VSS1014

F FUNCTION BOARD ASSY

SEMICONDUCTORS

D701–D703	1SS133X
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SWITCHES AND RELAYS

S701–S710	PSG1006
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OTHERS

CN701	FFC CONNECTOR	9607S–32F
V701	FL INDICATOR TUBE	PEL1084
	REMOTE SENSOR	SBX1785–51

Mark	No.	Description	Parts No.
F		SW BOARD ASSY	
		SWITCHES AND RELAYS	
	S801		PSG1006

OTHERS

NSP	J801	2P	D20PWW0220E
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B LOADING BOARD ASSY

SWITCHES AND RELAYS

S601, S602	DSG1016
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OTHERS

CN601	CONNECTOR 4P	4–173979–4
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D MOTOR BOARD ASSY

OTHERS

CN602	6PJUMPER CONNECTOR	52151–0610
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C SELECT BOARD ASSY

SWITCHES AND RELAYS

S604–S606	DSG1016
S603	PSG1010

G MECHANISM BOARD ASSY

SWITCHES AND RELAYS

S610	DSG1016
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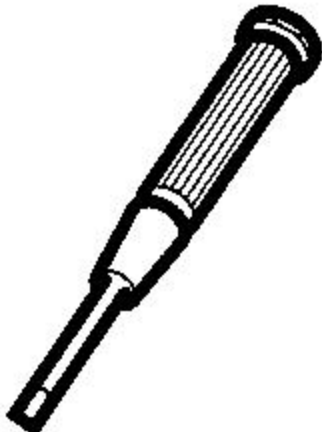
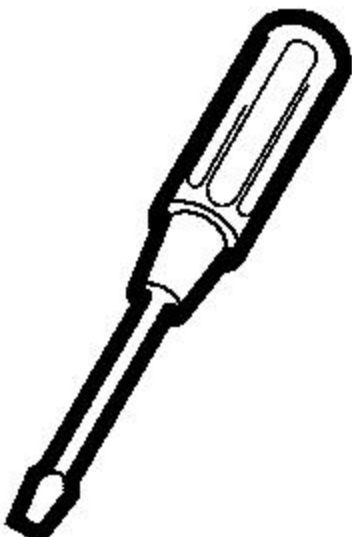
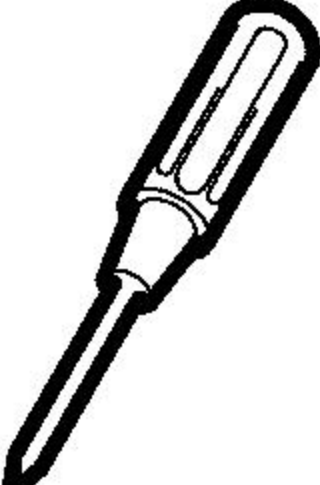
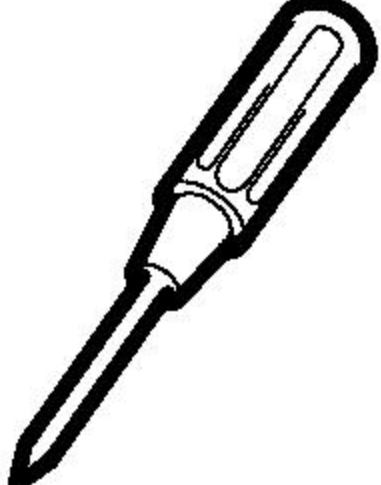
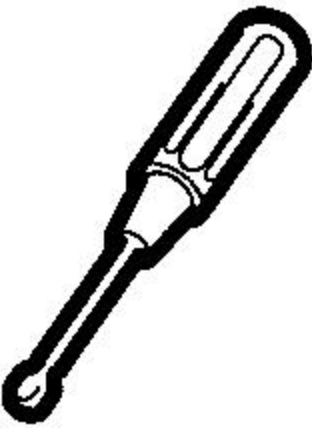
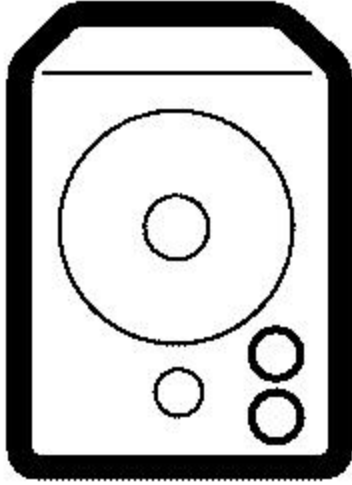
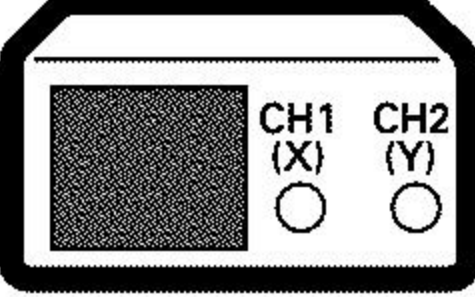
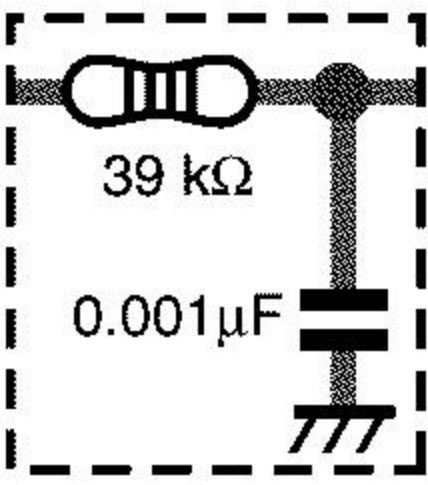
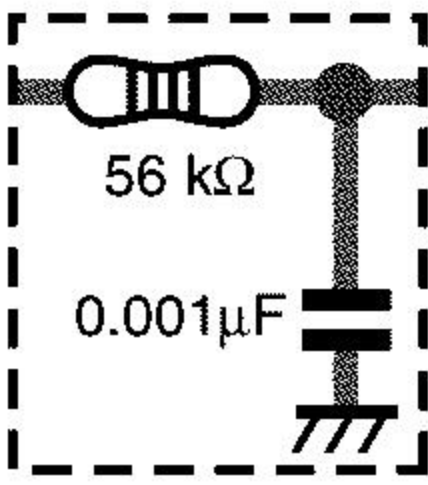
OTHERS

CN610	MT 4P CONNECTOR	173979–4
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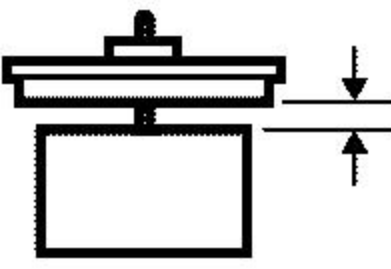
6. ADJUSTMENT

6.1 PREPARATIONS

6.1.1 Jigs and Measuring Instruments

 CD TEST DISC (YEDS-7)	 ⊖ Precise screwdriver	 ⊖ screwdriver (small)	 ⊕ screwdriver (medium)	 ⊕ screwdriver (large)
 Ball point hexagon wrench (size: 1.5mm) GGK1002	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter ① (39 kΩ + 0.001μF)	 Low pass filter ② (56 kΩ + 0.001μF)

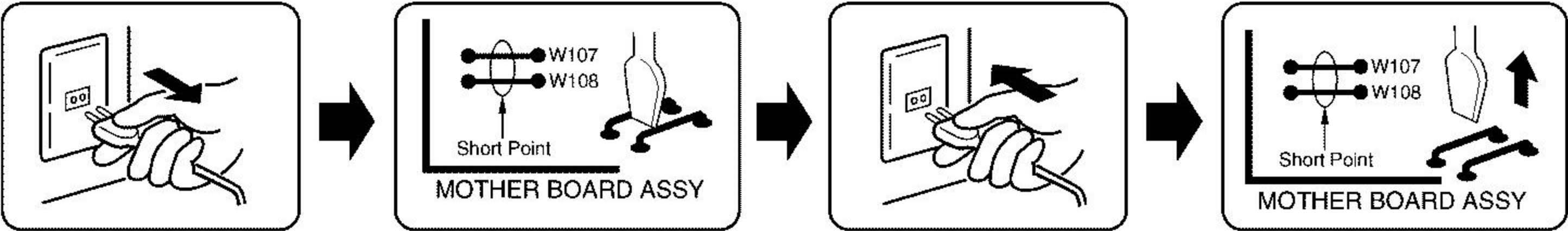
6.1.2 Necessary Adjustment Points

When	Adjustment points
Exchange PICKUP	1.2.3.4.5.6.7. 8.9.10.11.12 → Page 23~28
Exchange MAIN BOARD ASSY	1.3.5.6.7.8. 9.10.11.12 → Page 23~28
Exchange SERVO MECH ASSY	1.2.3.4.5.6.7. 8.9.10.11.12 → Page 23~28
Exchange SPINDLE MOTOR	 ADJ → Page 9

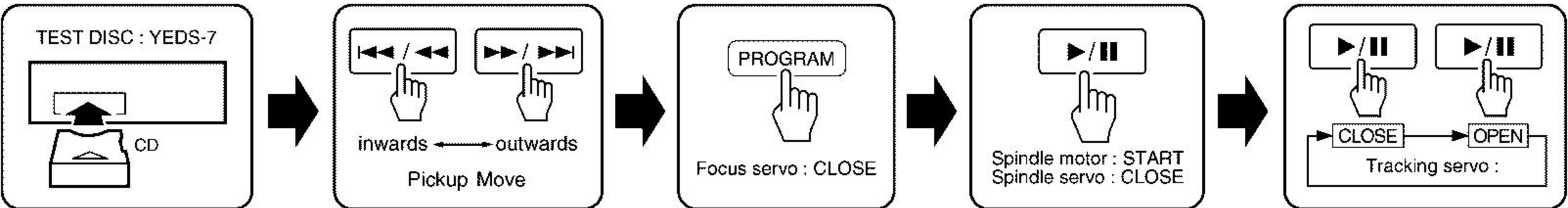
6.2 ADJUSTMENT

6.2.1 How to Start/Cancel Test Mode

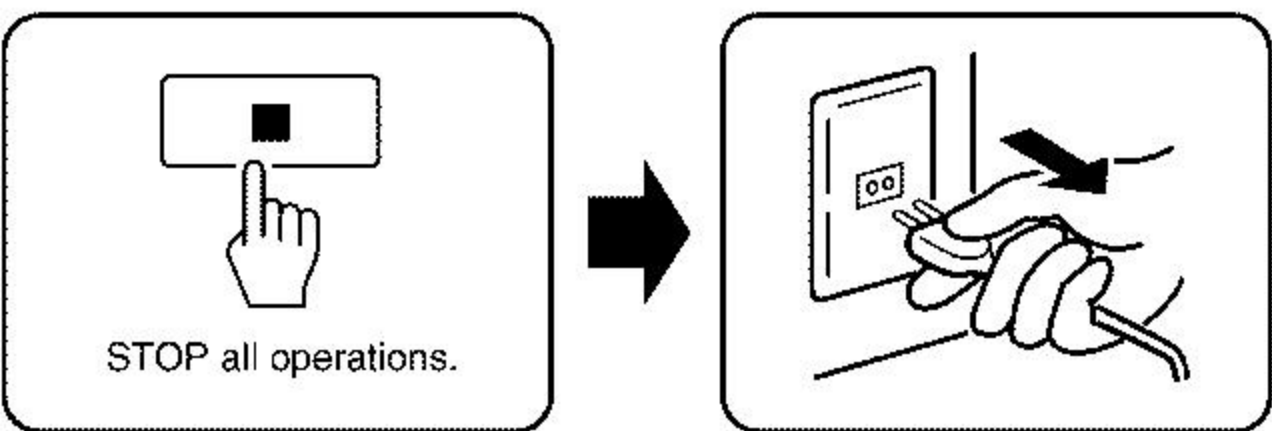
TEST MODE : ON



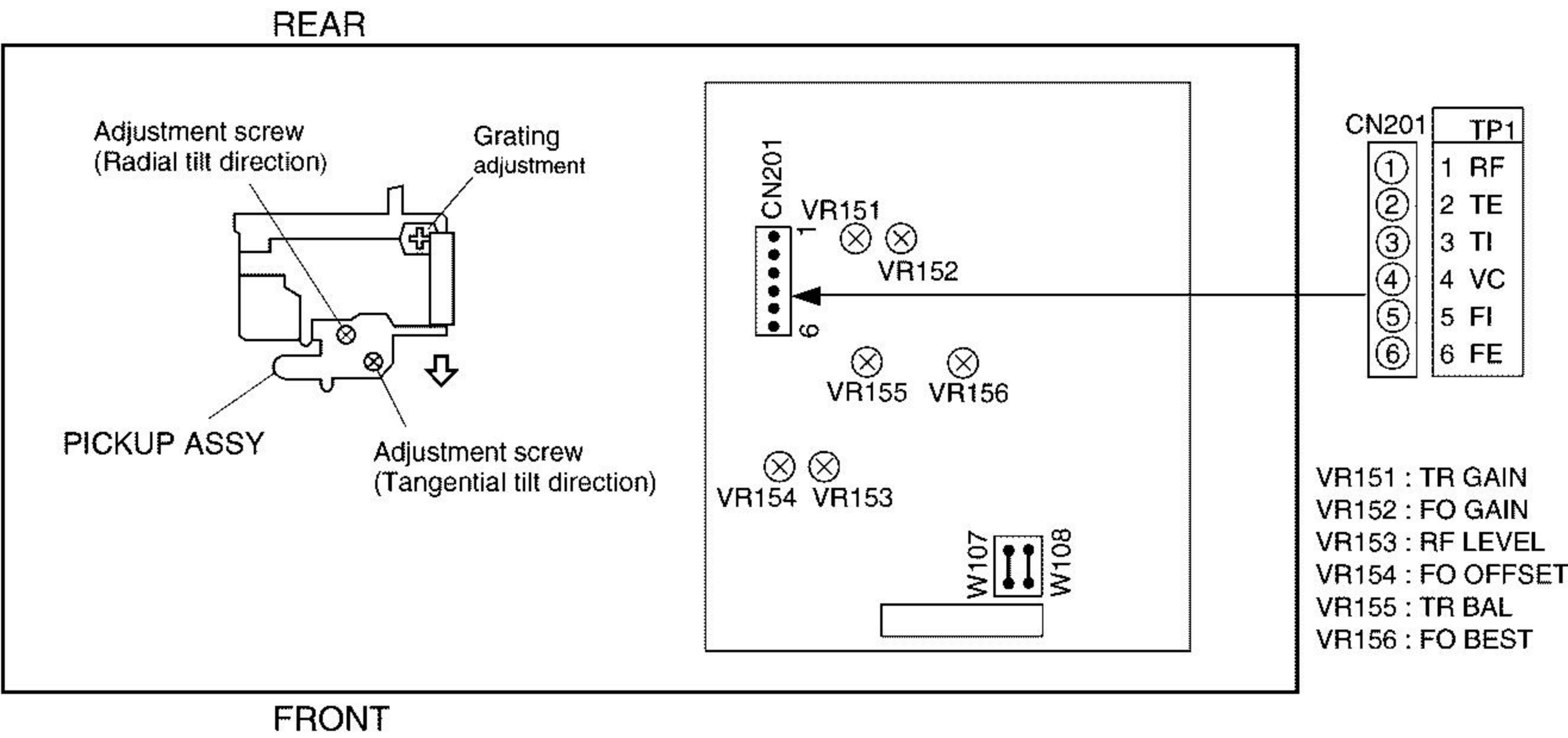
TEST MODE : PLAY



TEST MODE : STOP → CANCEL

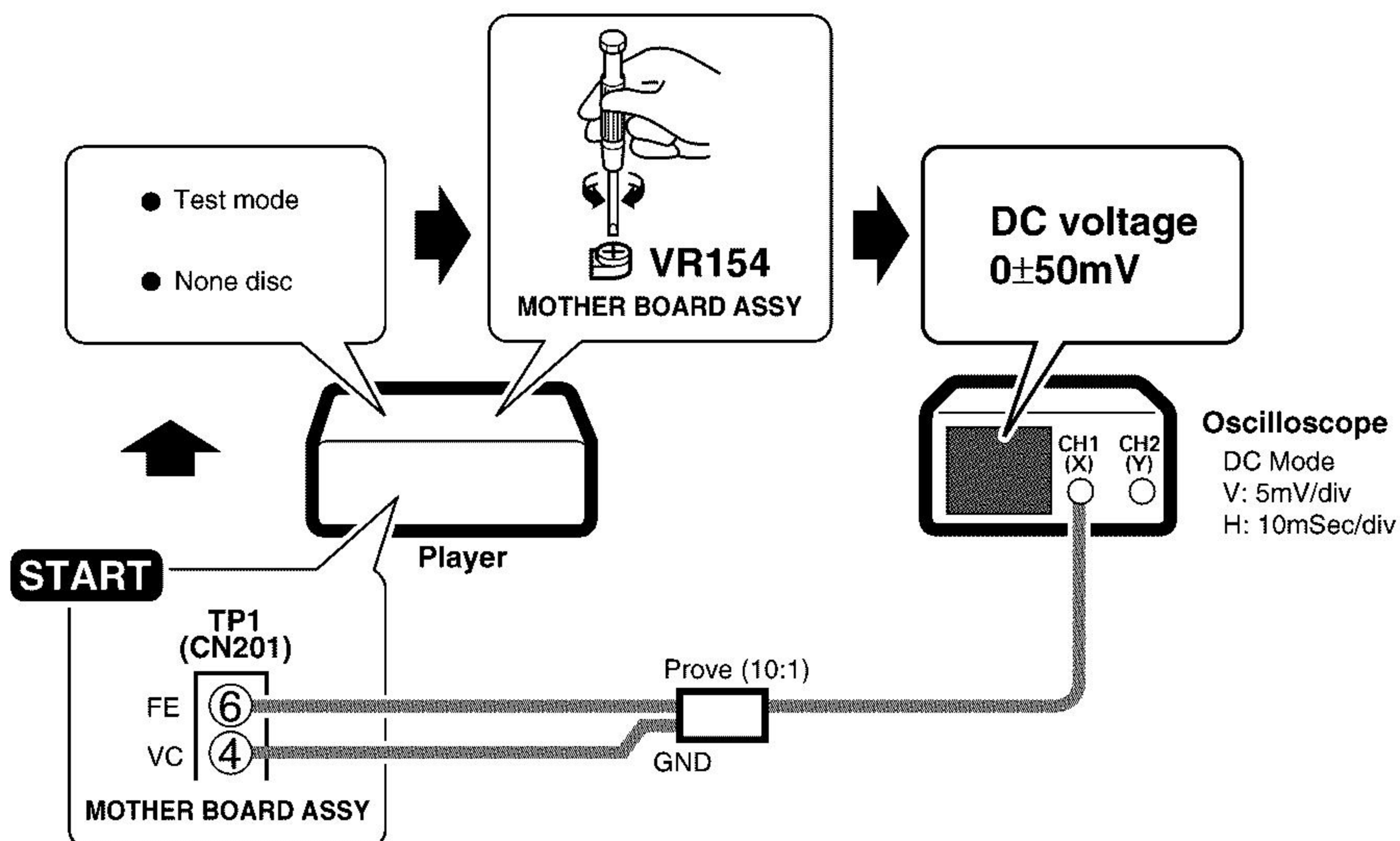


6.2.2 Adjustment Location

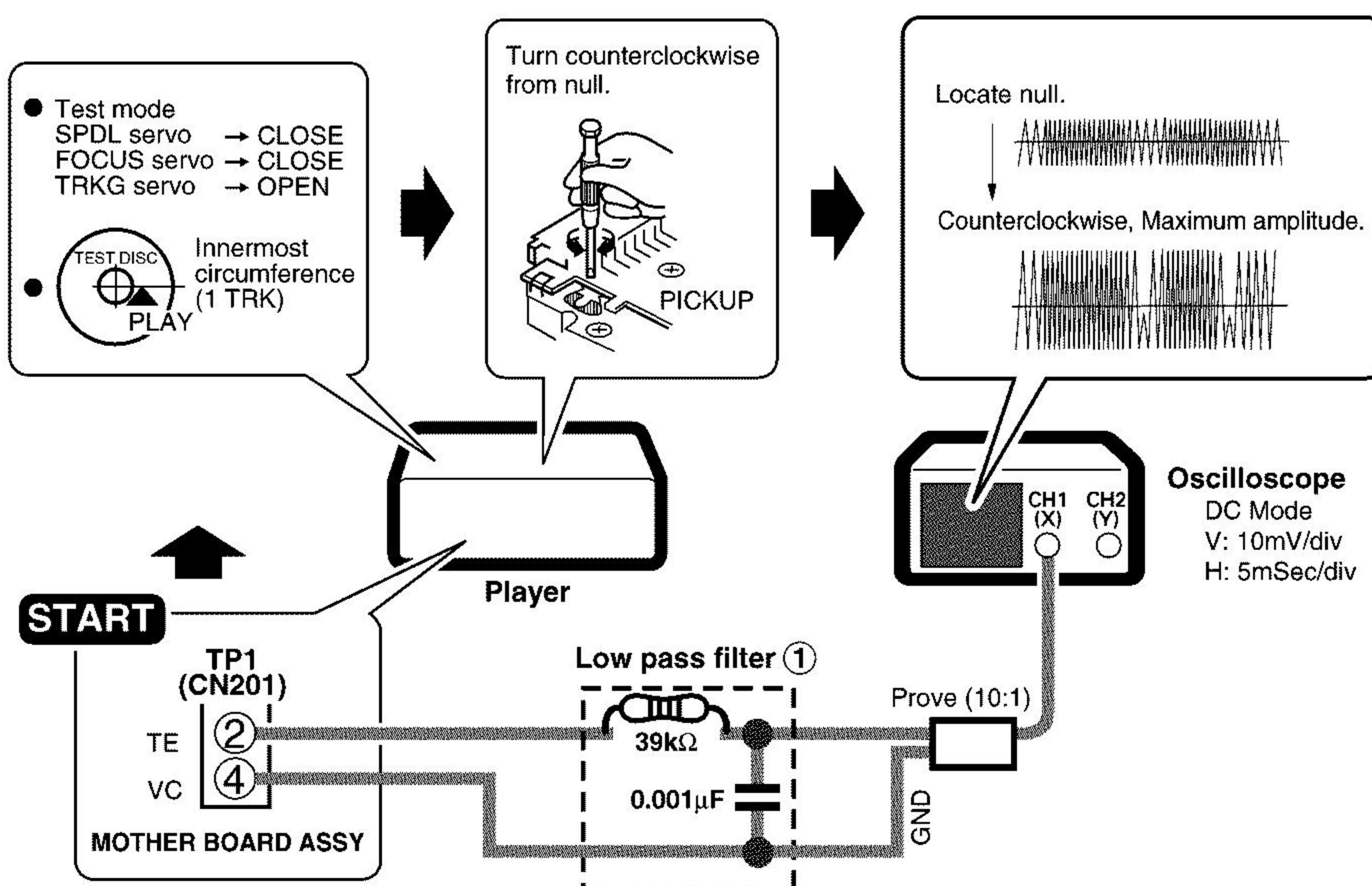


6.2.3 Check and Adjustment

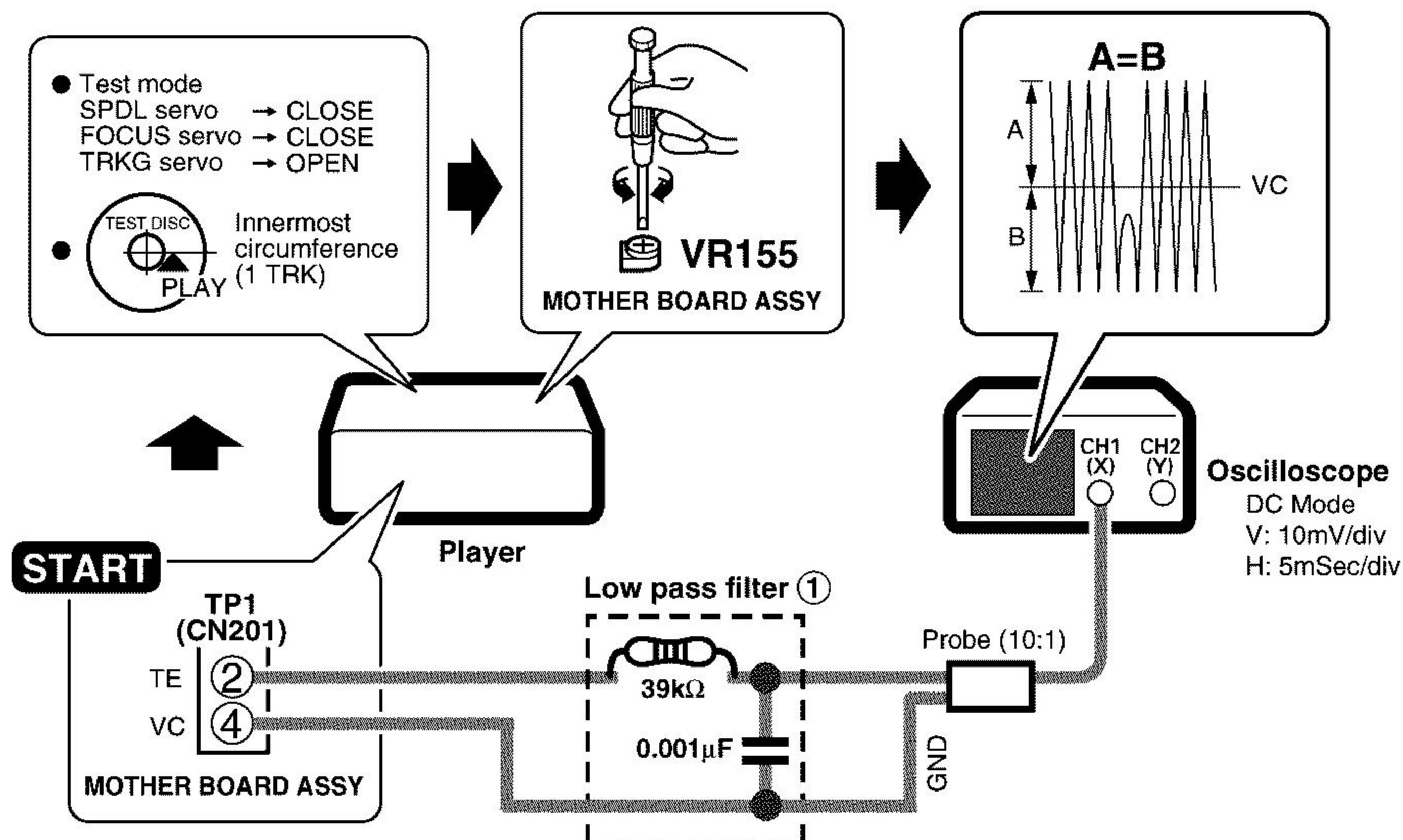
1. Focus Offset Adjustment



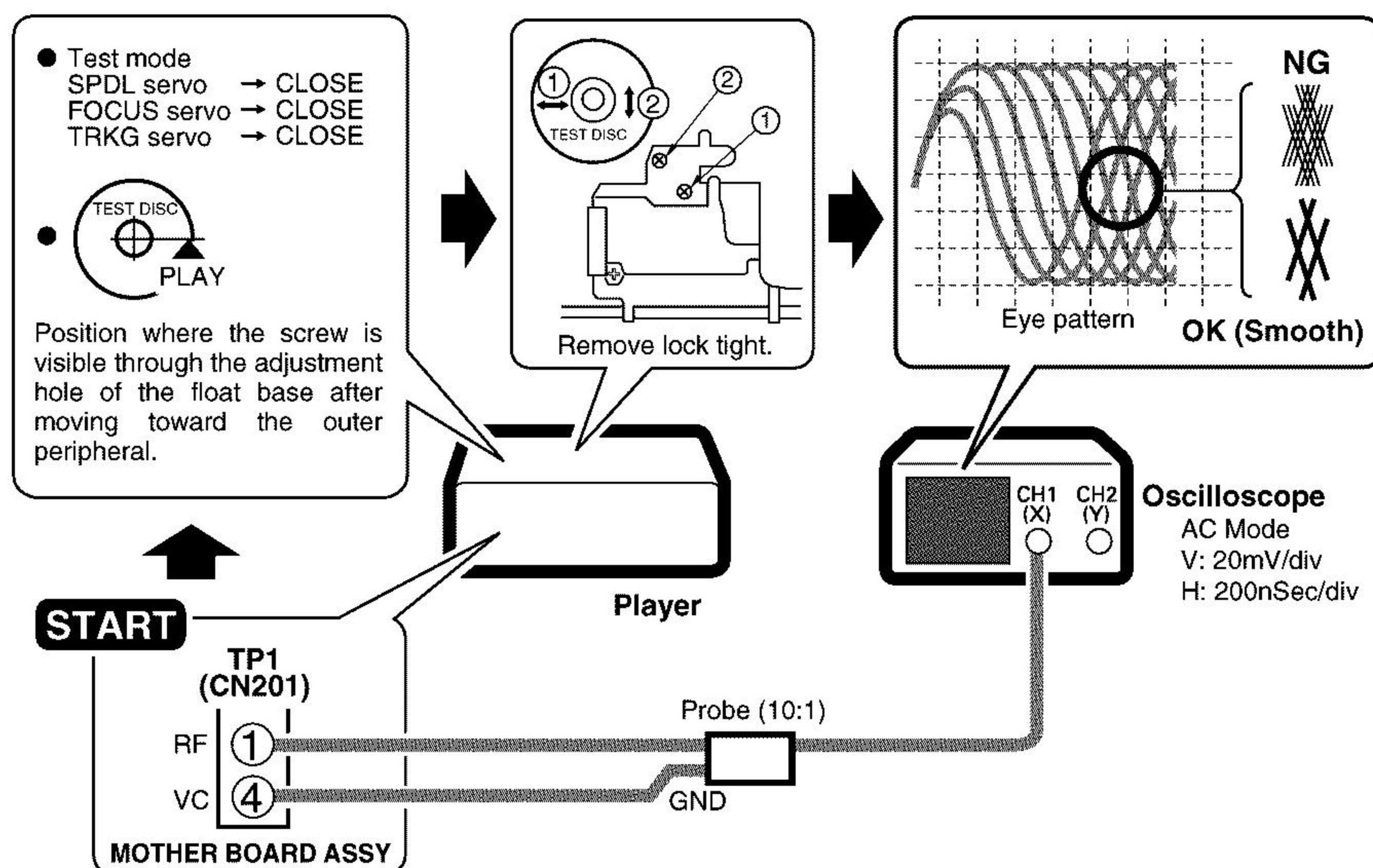
2. Grating Adjustment



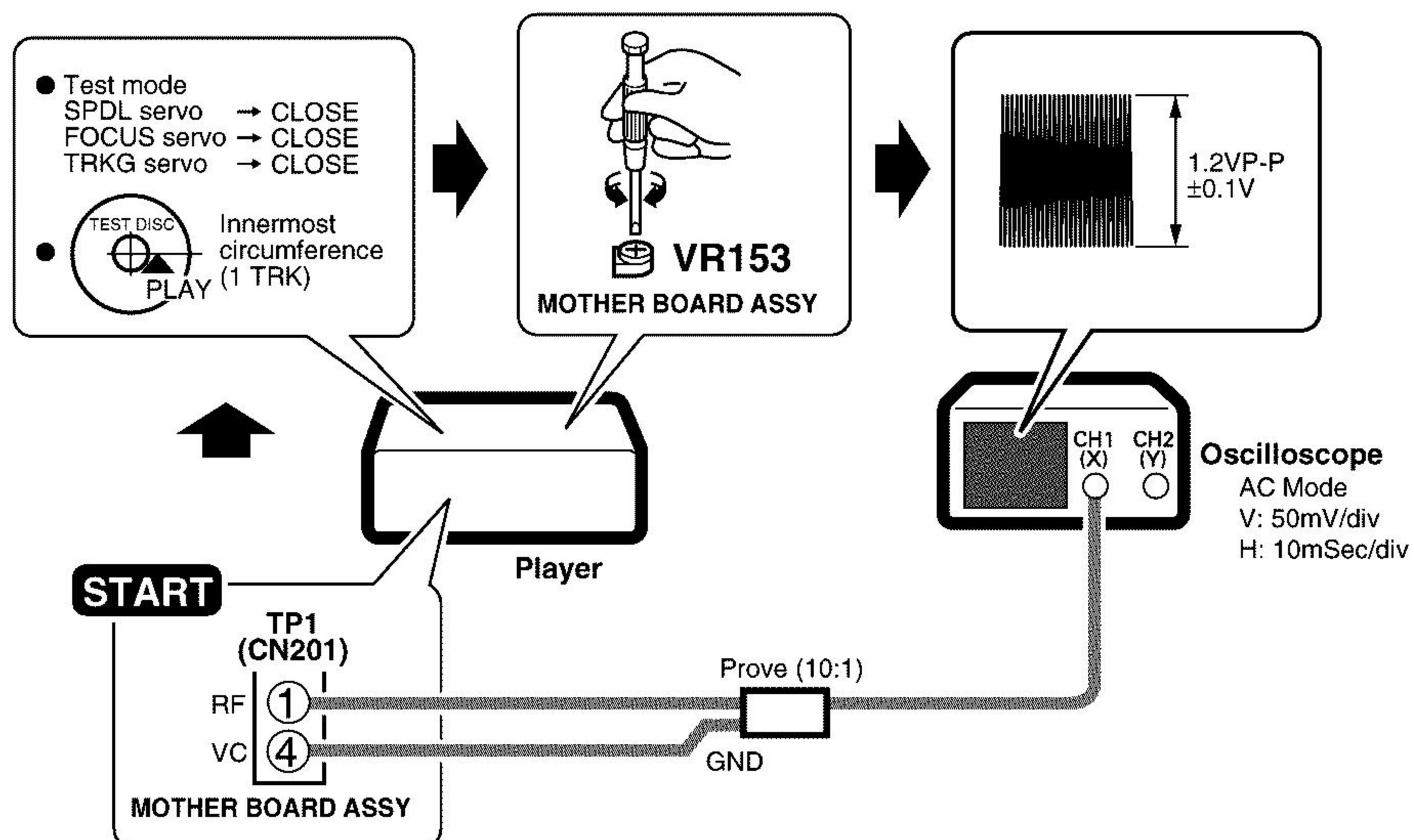
3. Tracking Error Barance Adjustment



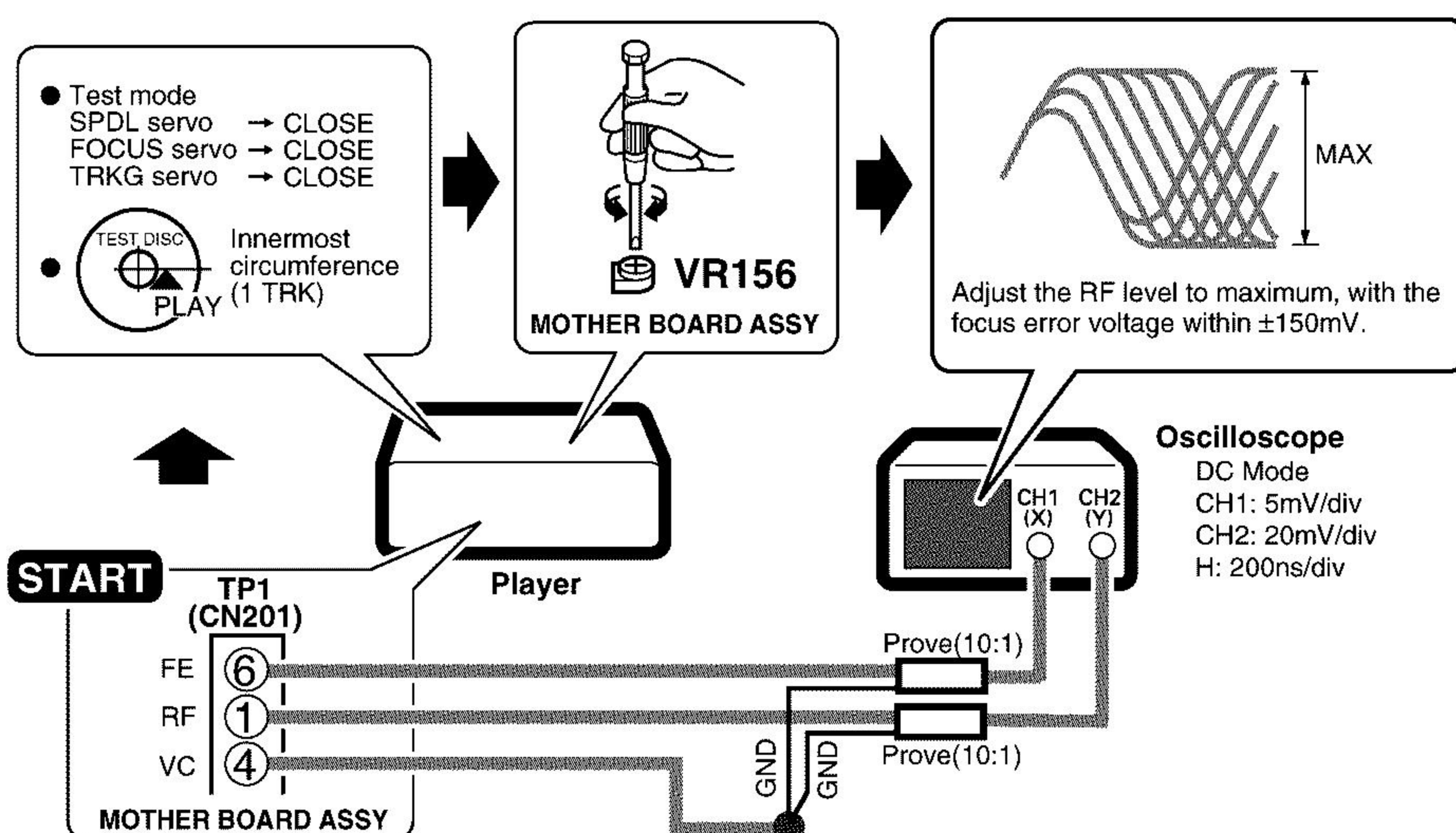
4. Pickup ①Radial/ ②Tangential Direction Tilt Adjustment



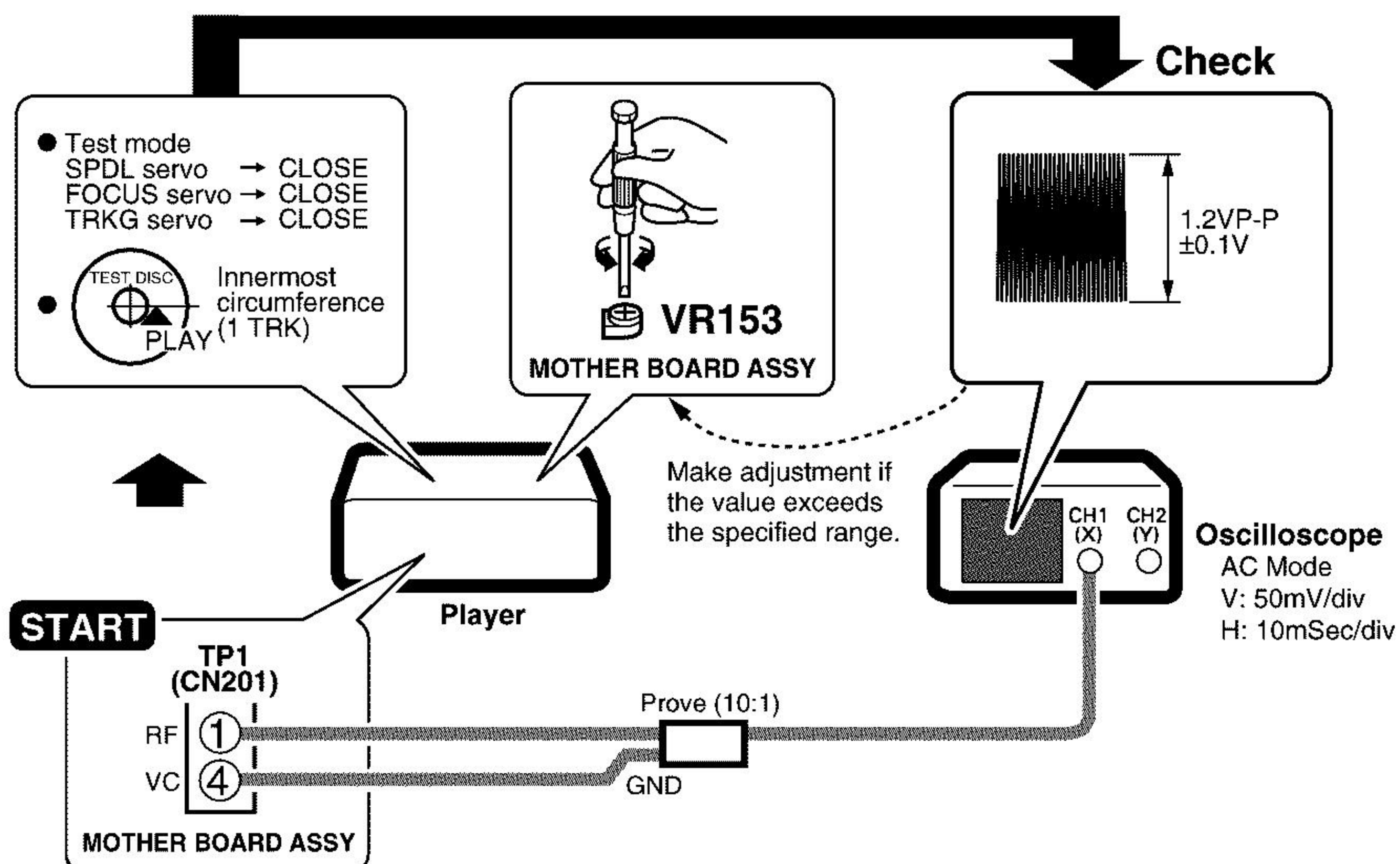
5. RF Level Adjustment I



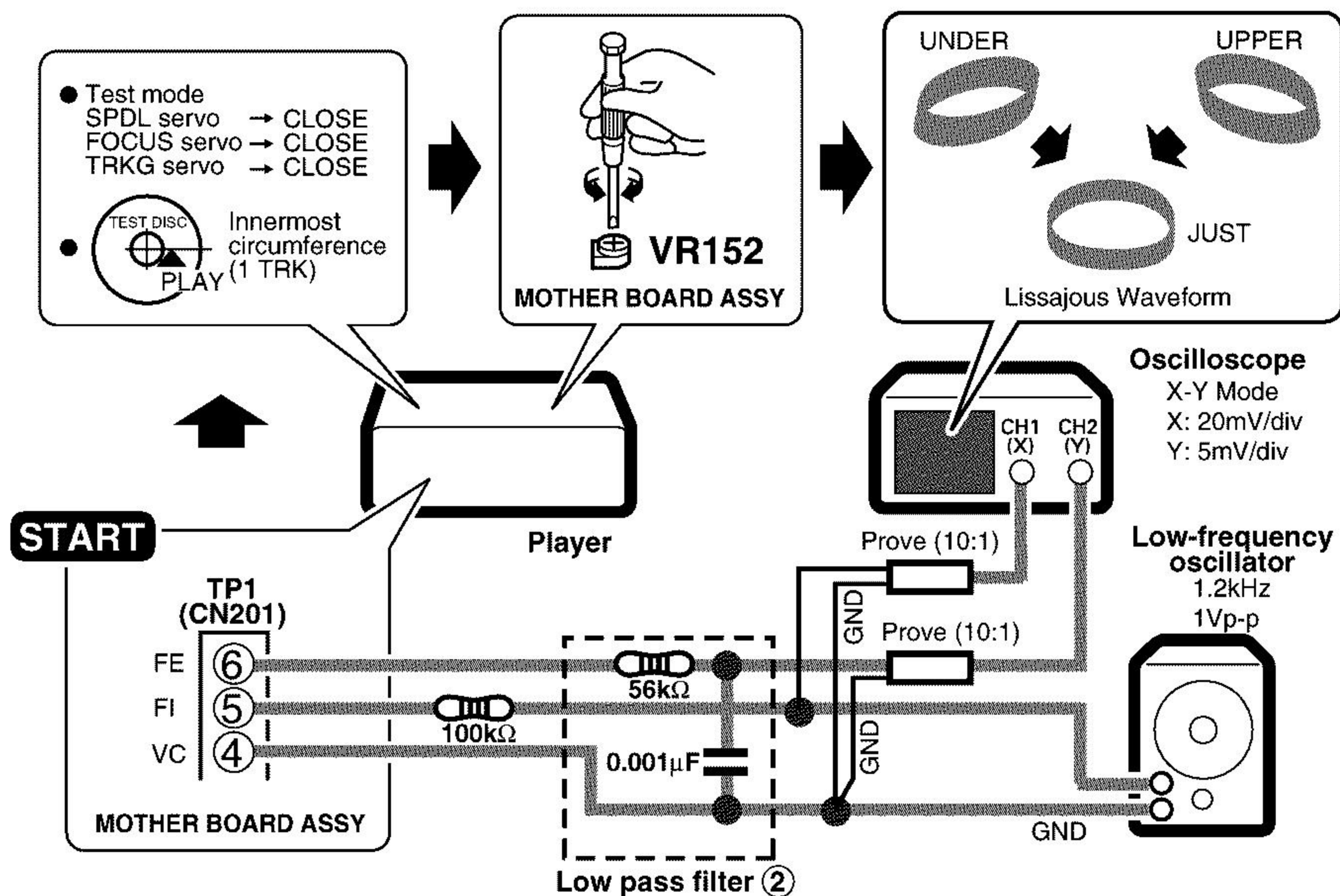
6. Focus Best Adjustment I



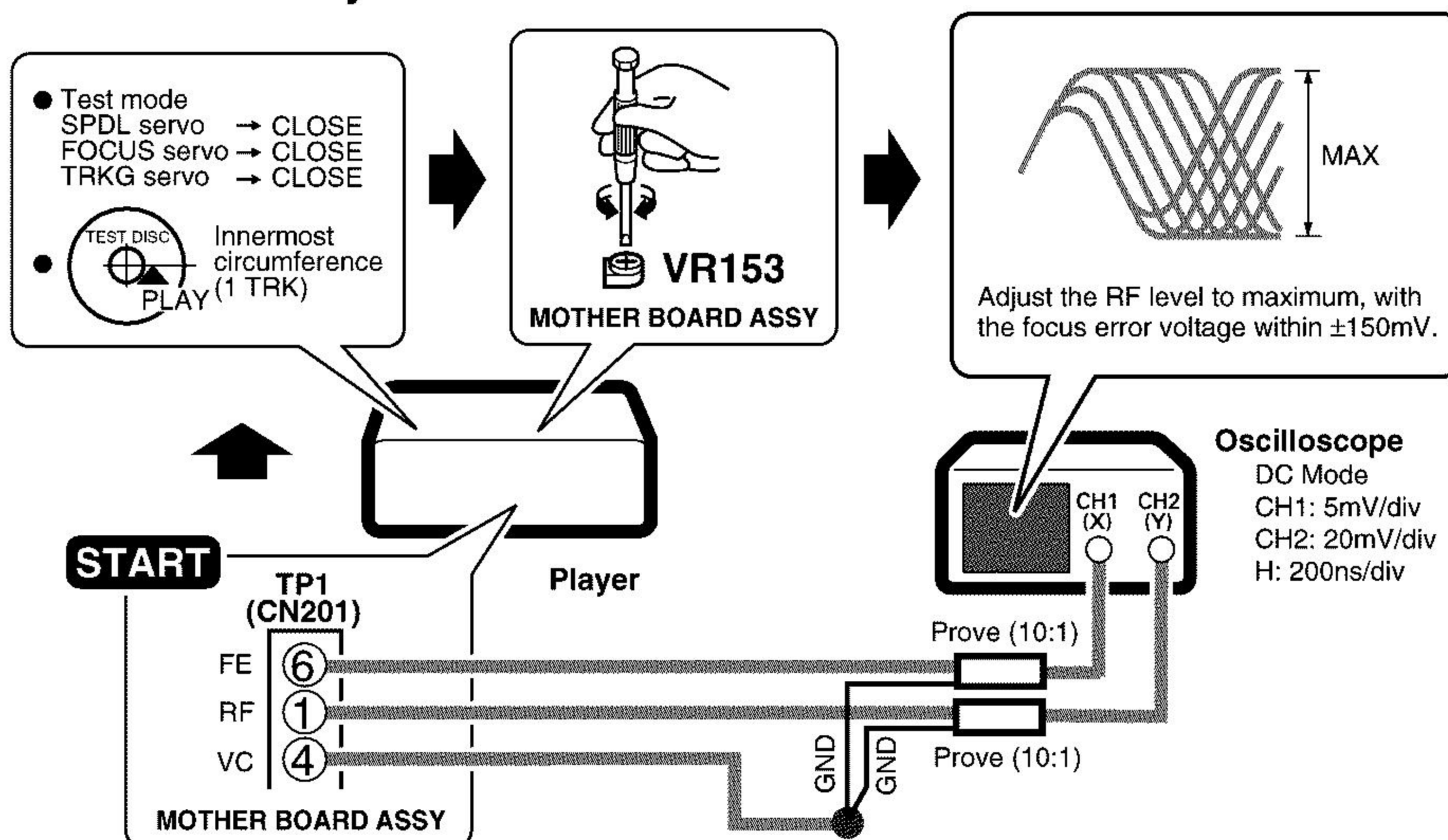
7. RF Level Adjustment II



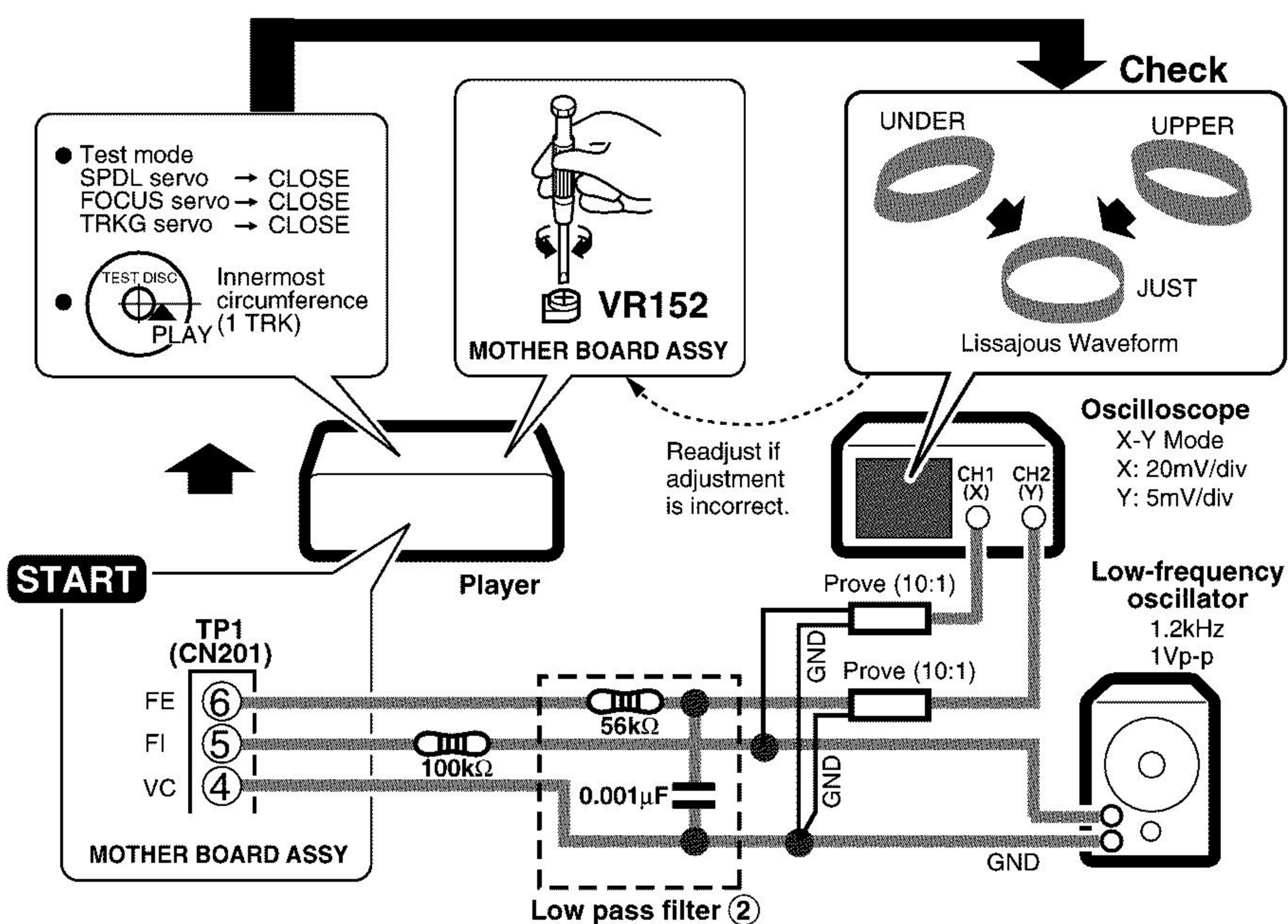
8. Focus Servo Loop Gain Adjustment I



9. Focus Best Adjustment II

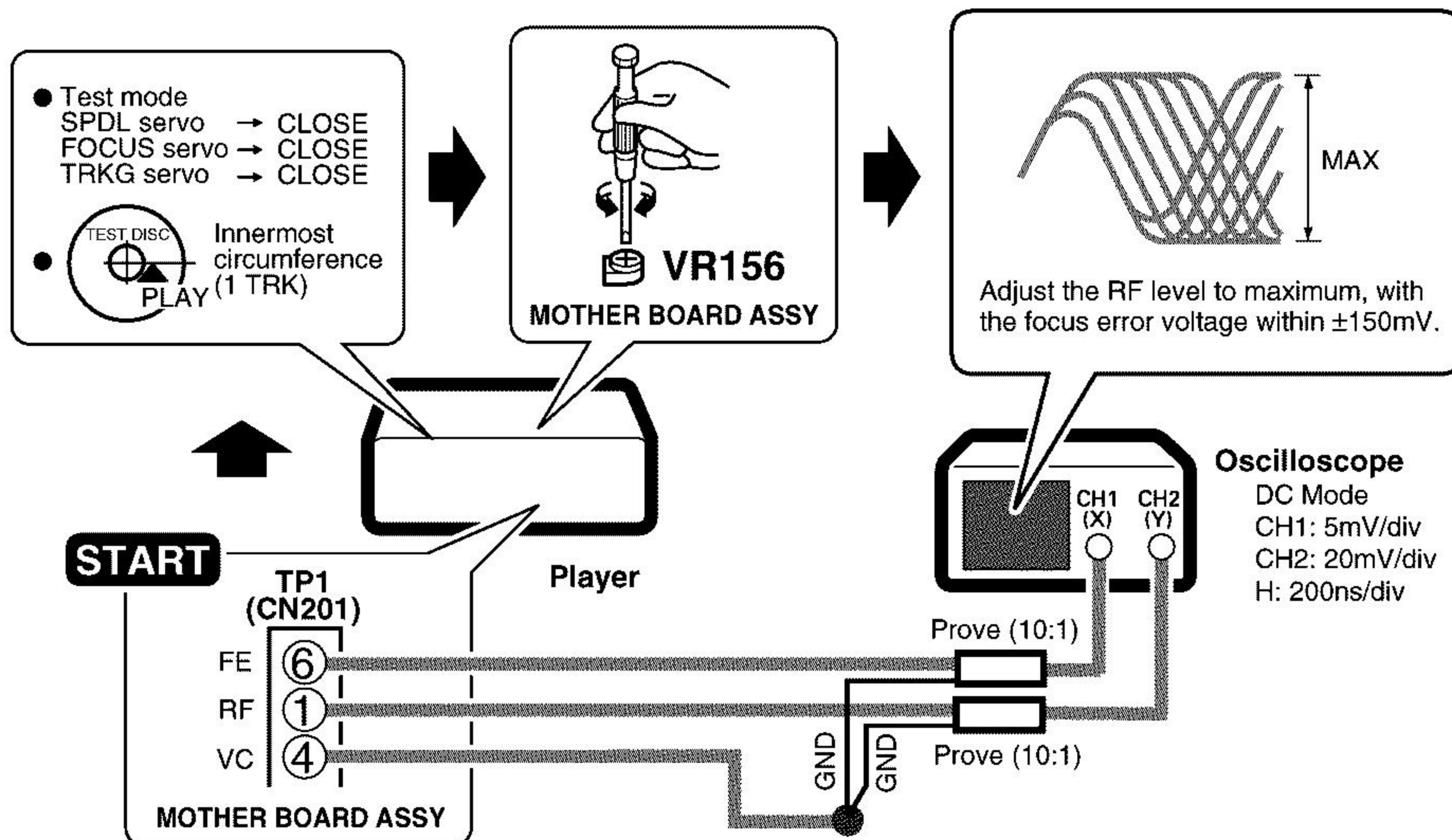


10. Focus Servo Loop Gain Adjustment II

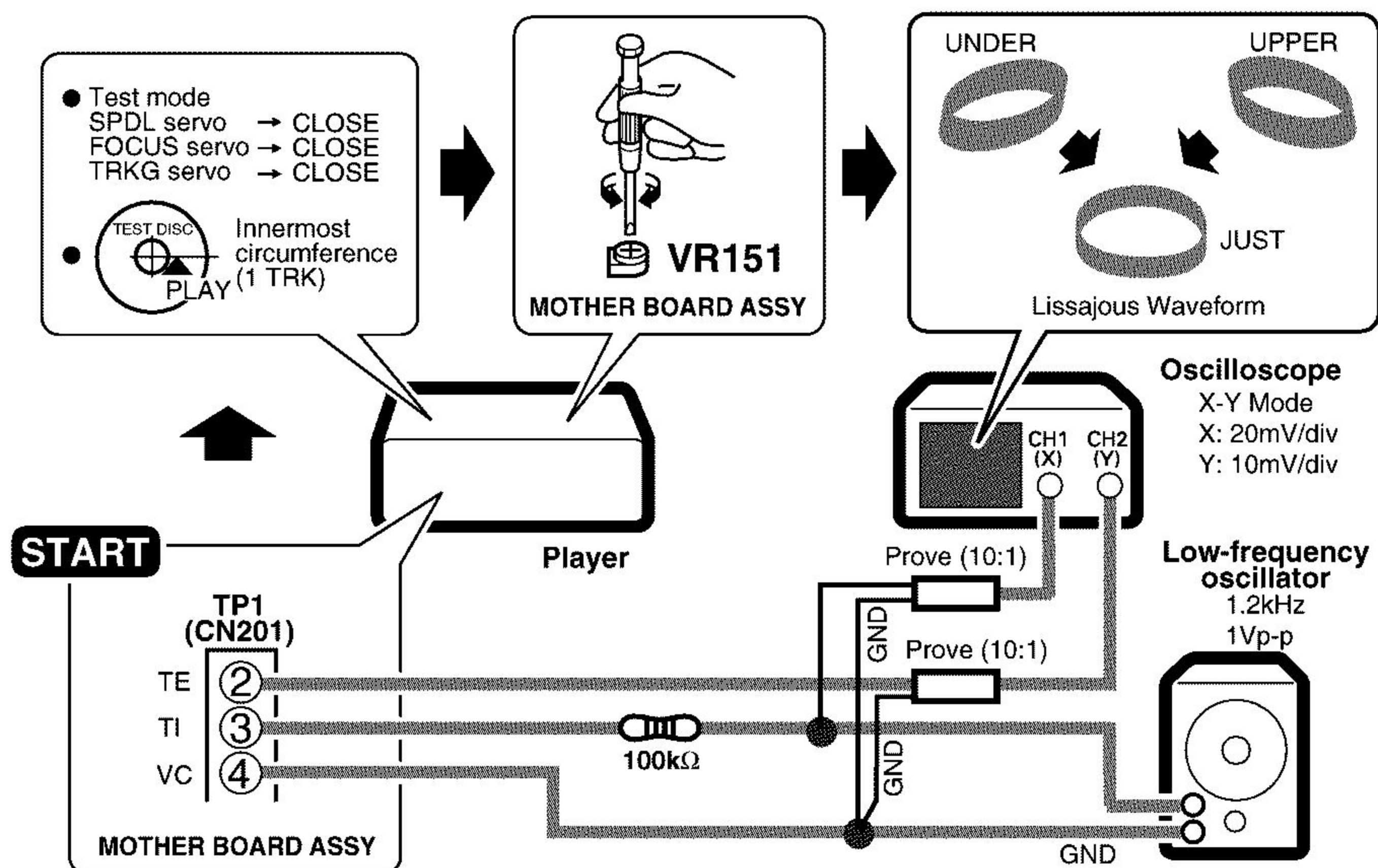


11. Focus Best Adjustment III

Adjust this point only if adjustment was made in item 10.



12. Tracking Servo Loop Gain Adjustment

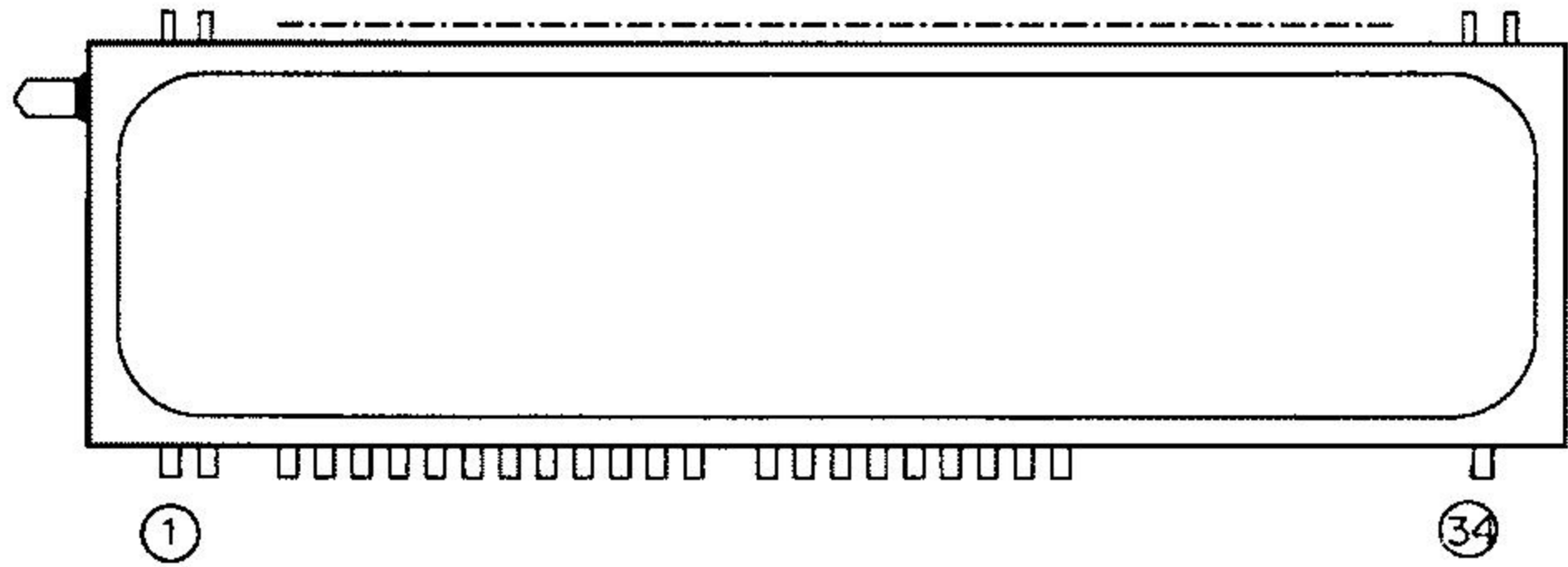


7. GENERAL INFORMATION

7.1 DISPLAY

■ PEL1084 (V701: FUNCTION BOARD ASSY)

● Pin Assignment

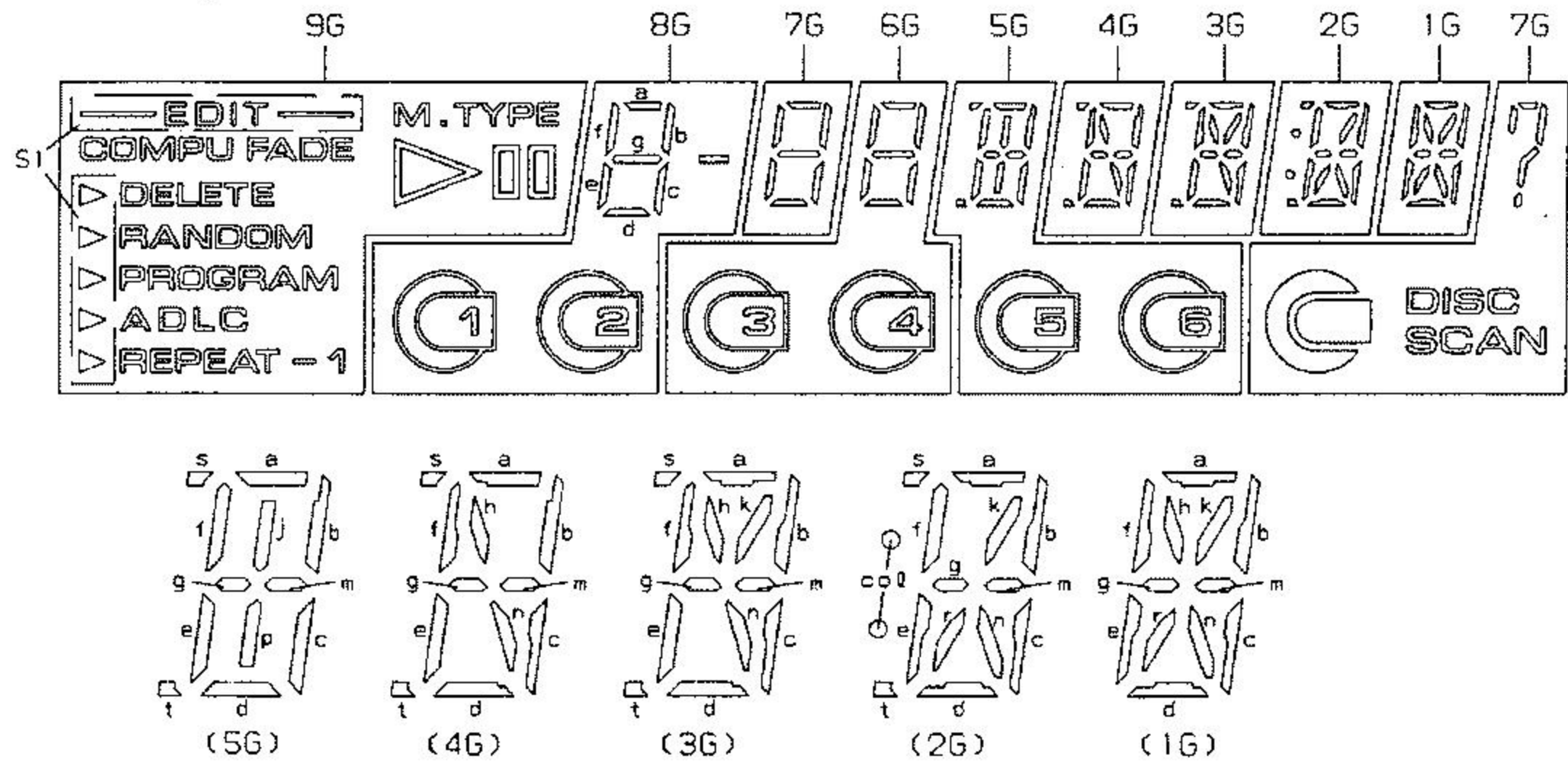


● Pin Connection

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONNECTION	F1	F2	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	N9	8G	7G	6G	5G	4G	3G	2G	1G	N	N	N	N	N	N	N	N	N	F

NOTE 1) F1, F2 --- Filament 4) 1G~9G --- Grid
2) NP ----- No pin
3) NX ----- No extend pin

● Grid Assignment

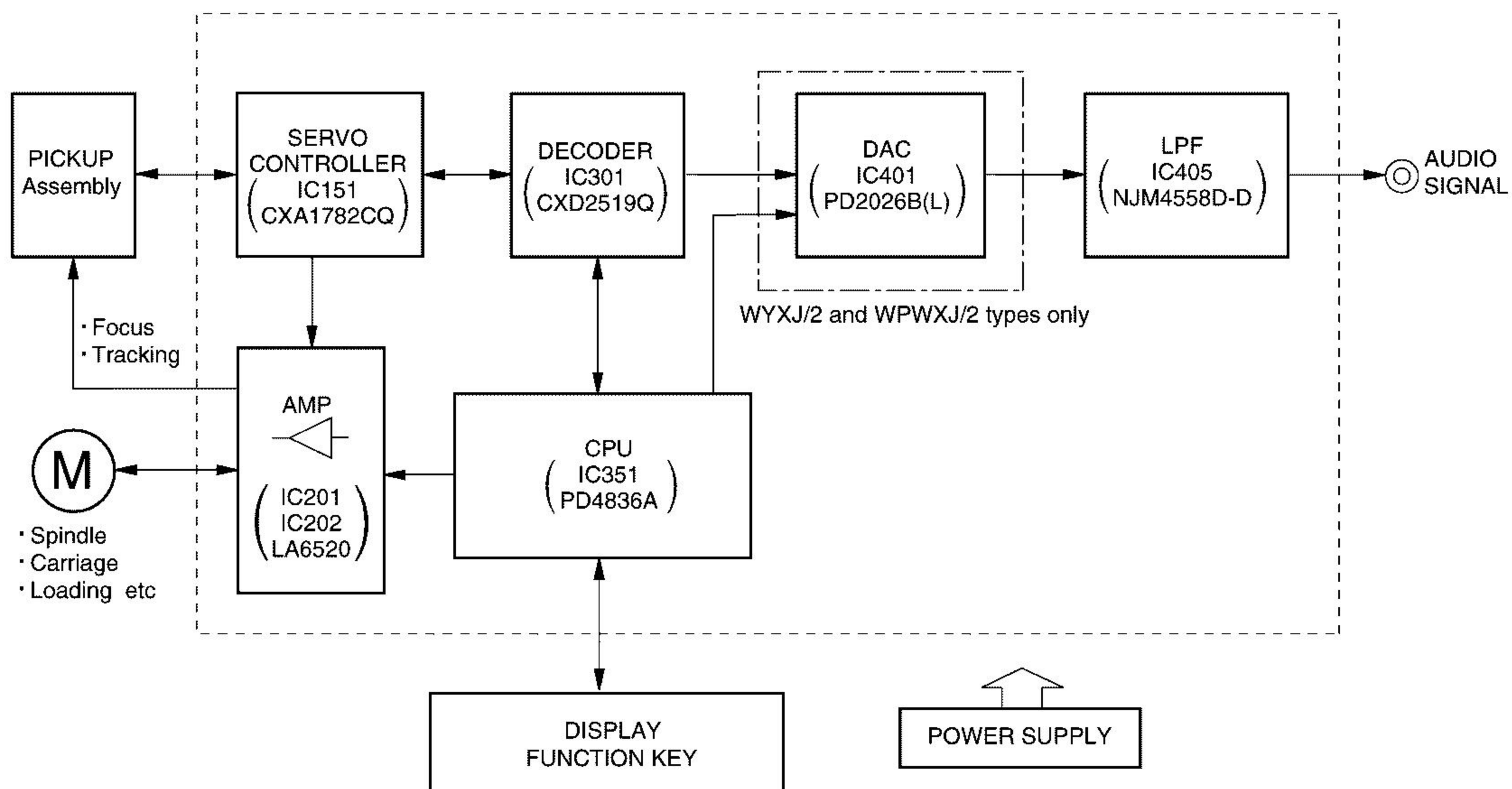


● Anode Connection

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	RANDOM	e	e	e	e	e	e	e	e
P2	FADE	f	f	f	f	f	f	f	f
P3	COMPU	g	g	g	g, m	g	g, m	g, m	g
P4	00	=	?	-	s, t	m	s, t	s, t	m
P5	M.TYPE	a	a	a	a	a	a	a	a
P6	SI	b	b	b	b	b	b	b	b

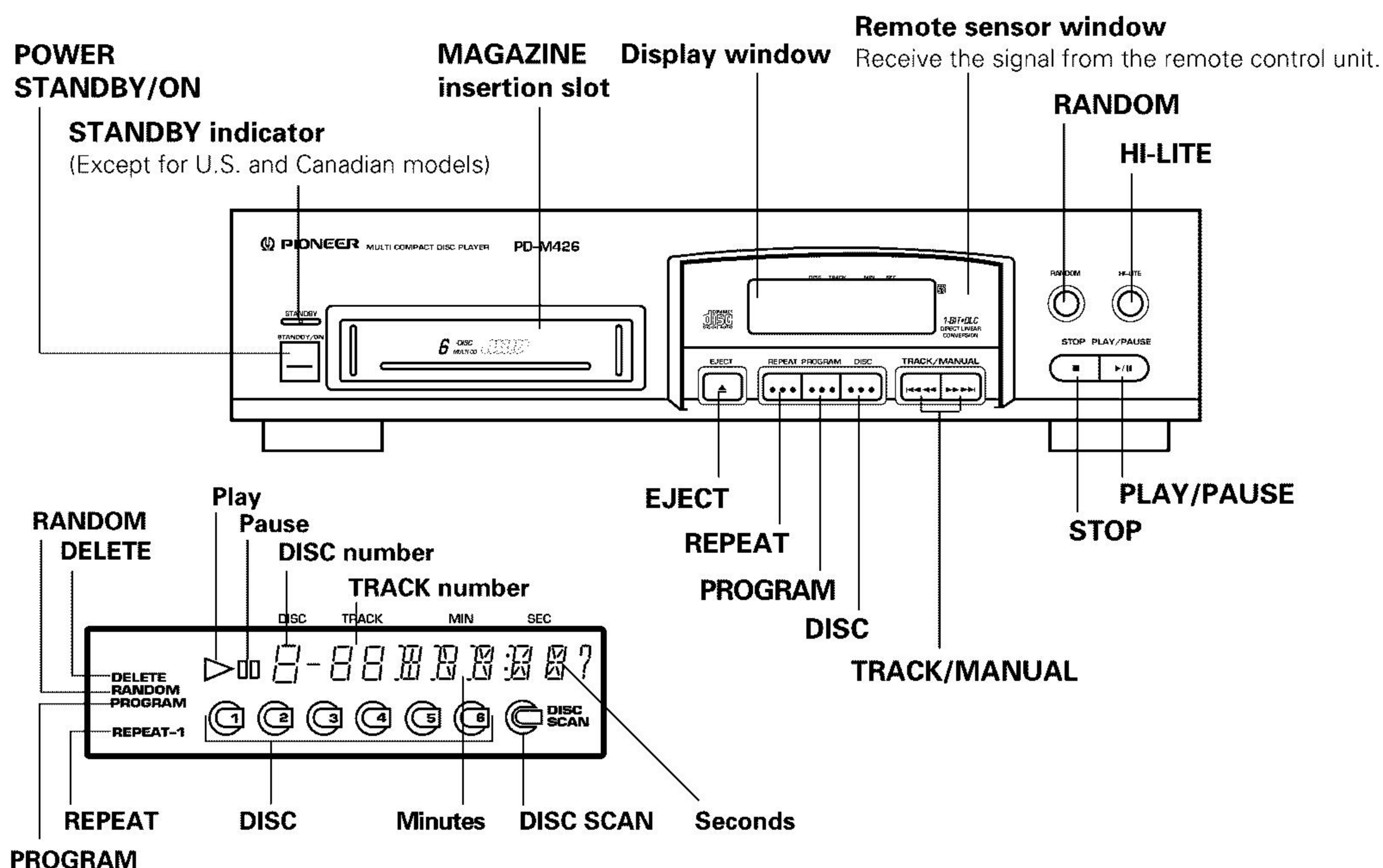
	9G	8G	7G	6G	5G	4G	3G	2G	1G
P7	DELETE	c	c	c	c	c	c	c	c
P8	PROGRAM	d	d	d	d	d	d	d	d
P9	▷	-	DISC	-	j, p	h	h	col	h
P10	ADLC	-	SCAN	-	-	s	k	k	k
P11	-1	①	②	③	④	n	n	n	n
P12	REPEAT	⑤	⑥	⑦	⑧	t	-	r	r

7.2 BLOCK DIAGRAM

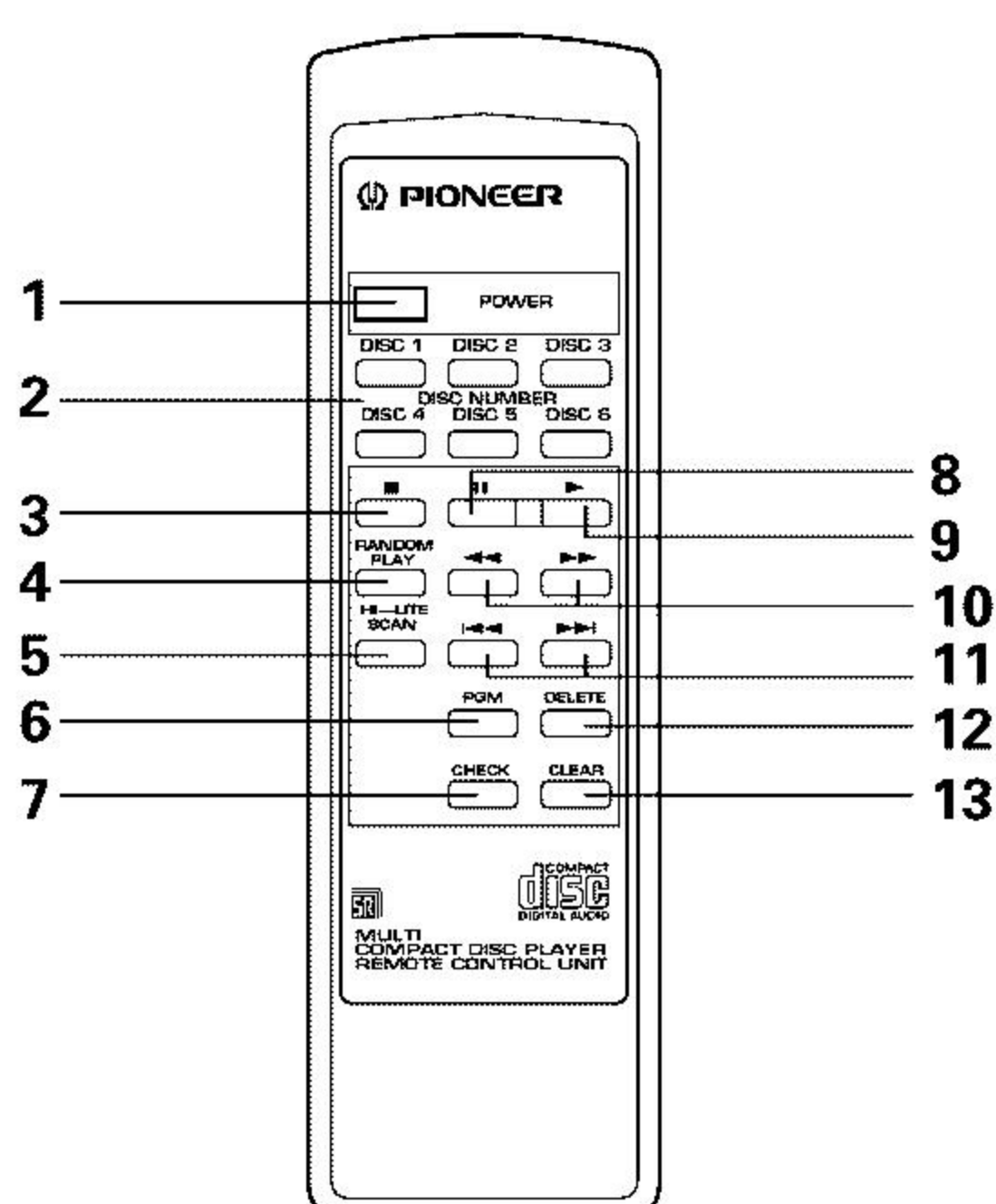


8. PANEL FACILITIES AND SPECIFICATIONS

■ PANEL FACILITIES



REMOTE CONTROL UNIT



Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- 1 **POWER** button
- 2 **DISC NUMBER** buttons (DISC 1-DISC 6)
- 3 **STOP** button (■)
- 4 **RANDOM PLAY** button
- 5 **HI-LITE SCAN** button
- 6 **PGM** (program) button
- 7 **CHECK** button
- 8 **PAUSE** button
- 9 **PLAY** button (▶)
- 10 **MANUAL** search buttons (◀◀, ▶▶)
- 11 **TRACK** search buttons (◀, ▶)
- 12 **DELETE** button
- 13 **CLEAR** button

■ SPECIFICATIONS

General

Type	Compact disc digital audio system
Power requirements	
European model	AC 220-240 V, 50/60Hz
U.S. and Canadian models	AC 120 V, 60 Hz
Australian and New Zealand models	AC 220-240 V, 50/60Hz
Power consumption	
European model	12 W
U.S. and Canadian models	10 W
Australian and New Zealand models	12 W
Operating temperature	+5°C-+35°C (+41°F- +95°F)
Weight (without package)	3.7 kg (8 lb, 3 oz.)
External dimensions	420(W) x 294 (D) x 105 (H) mm 16-9/16 (W) x 11-9/16 (D) x 4-1/8 (H) in

Audio section

Frequency response	2 Hz – 20 kHz
Output voltage	2.0 V
Wow and flutter	Limit of measurement (0.001% W.PEAK) or less (EIAJ)
Channels	2-channel (stereo)

Output terminal

Audio line output
Control input/output jacks (Except for European, Australian and New Zealand models.)

Accessories

• Remote control unit	1
• Size AAA/R03 dry cell batteries	2
• Six-compact-disc magazine	1
• Control cable (Except for European, Australian and New Zealand models.)	1
• Output cable	1
• Operating instructions	1

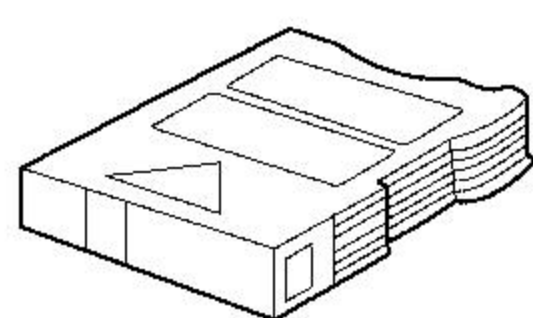
NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

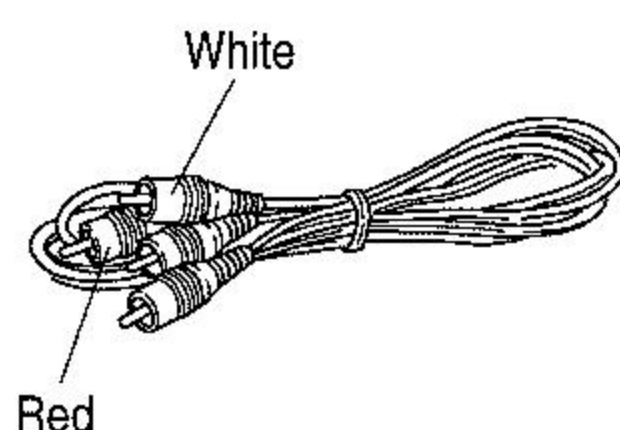
The Magazine Type Multi CD Players with  mark and the Magazines with the same mark are compatible for 5 inch (12 cm) discs.

Accessories

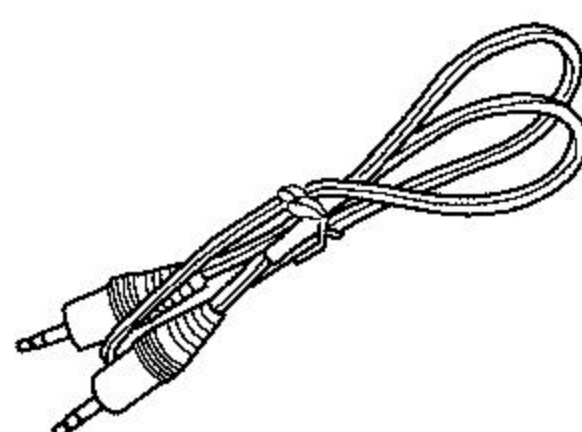
- Operating instructions



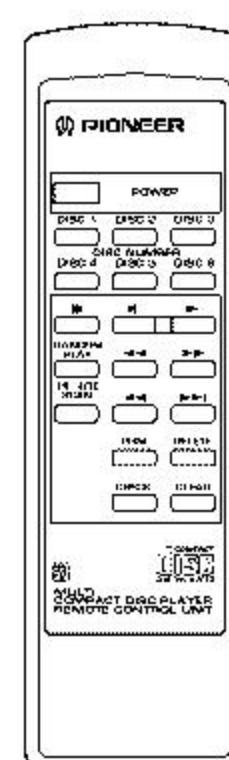
6-Compact disc magazine
(PXA1575)



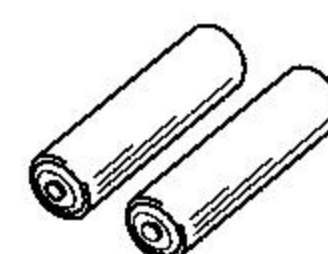
Output cable
(PDE1248)
(L= 1 m)



Control cable
(PDE1247)
(L= 1 m)



Remote control unit
(PWW1107)



Dry cell batteries
(AAA/R03)
(VEM-022)