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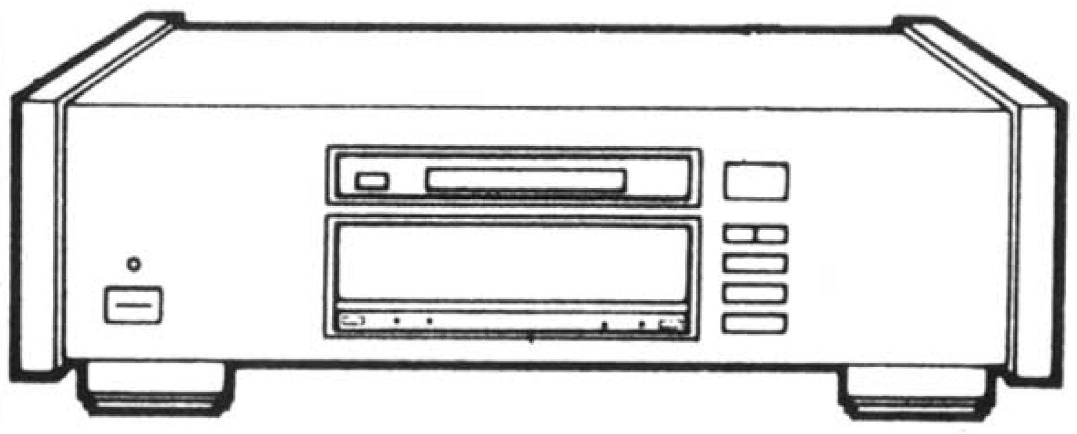
# Service Manual



ORDER NO.
ARZ2068

## COMPACT DISC PLAYER

# PD-73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## Parts list of Mechanism unit

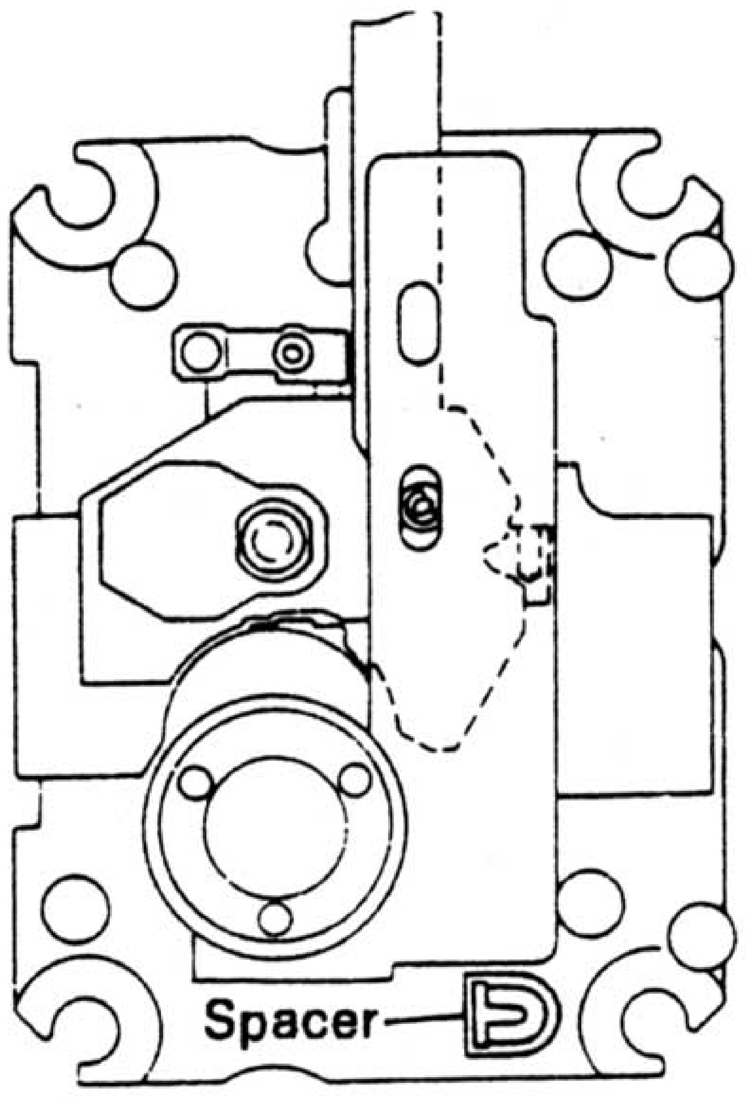
| Mark | No. | Parts No. | Description |
|---|---|---|---|
| | 1 | PBH1013 | Spring |
| | 2 | PBP−001 | Steel ball $\phi$4 |
| | 3 | PNW1084 | Clamp holder |
| | 4 | PNW1085 | Clamp retainer |
| | 5 | PNM1010 | Disc cushion |
| | 6 | PYY1084 | Clamper assembly |
| | 7 | PYY1025 | Motor assembly (LOADING) |
| | 8 | PBA1031 | Screw |
| | 9 | PNW1627 | Tray |
| | 10 | PNW1330 | Plate lever (F) |
| | 11 | PNW1331 | Plate lever (R) |
| | 12 | PNW1332 | Rack |
| | 13 | PBH1012 | Clamp spring |
| | 14 | PEB1013 | Belt (LOADING) |
| | 15 | ............ | ............ |
| | 16 | PNW1083 | Clamp lever |
| | 17 | PNW1171 | Gear pully |
| | 18 | VSK−015 | Leaf switch (CLAMP : S102) |
| | 19 | PEB1032 | Stopper rubber |
| | 20 | PBH1045 | Plate spring |
| | 21 | PNW1626 | Disc plate |
| | 22 | PNW1064 | Disc table |
| | 23 | PEA1086 | Motor assembly |
| | 24 | PLA1061 | Guide bar |
| | 25 | PWY1011 | Pick−up assembly |
| | 26 | PNW1408 | Roller |
| | 27 | PNW1407 | Adjustment shaft |
| | 28 | PBA1026 | Adjustment screw |
| | 29 | PBH1029 | Shaft spring |
| | 30 | PBH1068 | Earth spring |
| | 31 | PBK1045 | Plate spring (T) |
| | 32 | PBK1046 | Plate spring (R) |
| | 33 | PNW1405 | Carriage |
| | 34 | PNW1406 | Mechanism chassis |
| | 35 | PXP1003 | Drive unit |
| | 36 | PXP1004 | Detector unit |
| | 37 | BPZ20P080FZK | Screw |
| | 38 | IPZ30P050FZK | Screw |
| | 39 | PPZ30P080FMC | Screw |
| | 40 | BPZ30P250FMC | Screw |
| | 41 | IBZ30P180FMC | Screw |
| | 42 | IPZ30P080FMC | Screw |
| | 43 | PMZ20P030FMC | Screw |
| | 44 | PMZ26P040FMC | Screw |
| | 45 | PPZ26P080FMC | Screw |
| | 46 | WT25D047D025 | Washer |
| | 47 | PBA1027 | Screw |
| | 48 | PEB1031 | Float rubber |
| | 49 | WA32F100M050 | Washer |
| | 50 | PBA1025 | Screw |

| Mark | No. | Parts No. | Description |
|---|---|---|---|
| | 51 | PXM1002 | Motor (LOADING) |
| | 52 | CKDYF103Z50 | Ceramic capacitor |
| | 53 | PNM1082 | Spacer |
| | 54 | PEB1125 | Belt |
| | 55 | PNW1594 | Pully |
| | 56 | PEB1097 | Rubber ring |
| | 57 | PNB1232 | Weight |
| | 58 | PDZ30P050FMC | Screw |
| | 59 | WT26D047D050 | Washer |
| | 101 | | Tray assembly |
| | 102 | | Loading base assembly |
| | 103 | | Magnet |
| | 104 | | Clamper |
| | 105 | | Slide base |
| | 106 | | Gear shaft |
| | 107 | | Motor pully |
| | 108 | | Basė plate |
| | 109 | | Yoke unit |
| | 110 | | Absorber felt |
| | 111 | | PU guide bar |
| | 112 | | Pully angle |
| | 113 | | ............... |
| | 114 | | Loading base |

## MOUNTING EACH COMPONENT

### Mounting the disc table

To set the disc table, make sure to put the stopper below bottom of the spindle motor and apply pressure (about 9 kg) to the disc table.
The spacer (which is separated from the mechanical chassis) must also be inserted between the base plates as shown in figure 1.



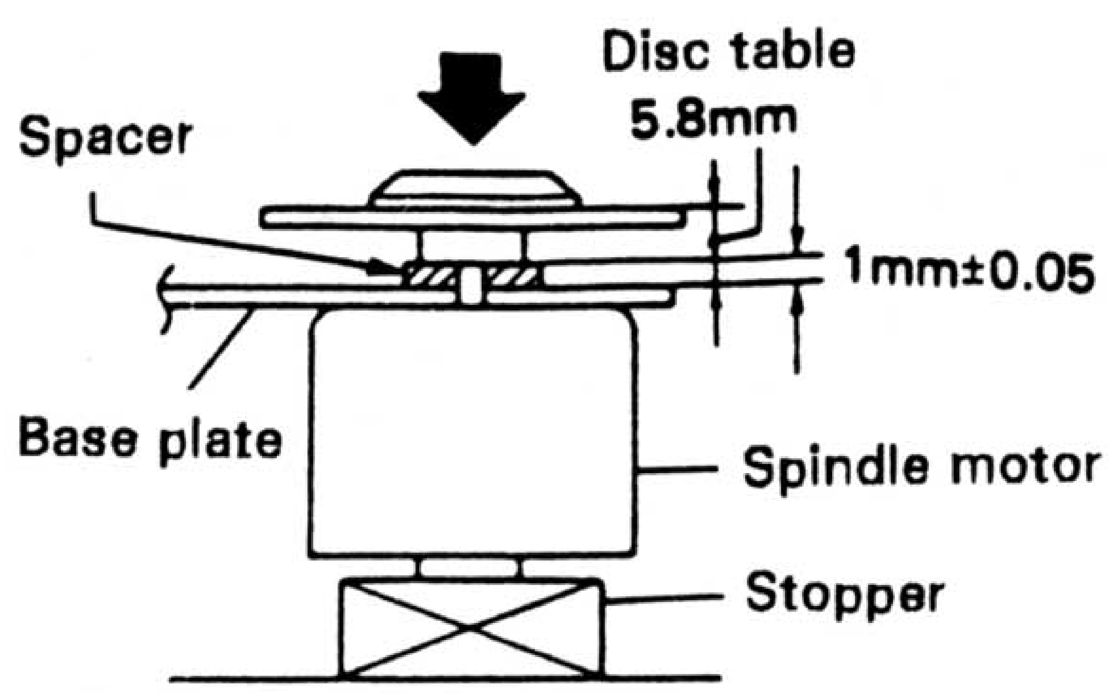




Figure 1

### Precautions for mounting the pick−up assembly

1. Connect the lead wire from the linear motor as shown in figure 2.
2. When mounting the pick−up assembly, secure the tangential screw carefully as shown in figure 3, so that the adjustment shaft does not break.
3. Mount the P.U. guide driver carefully so that the spring does not jump out.

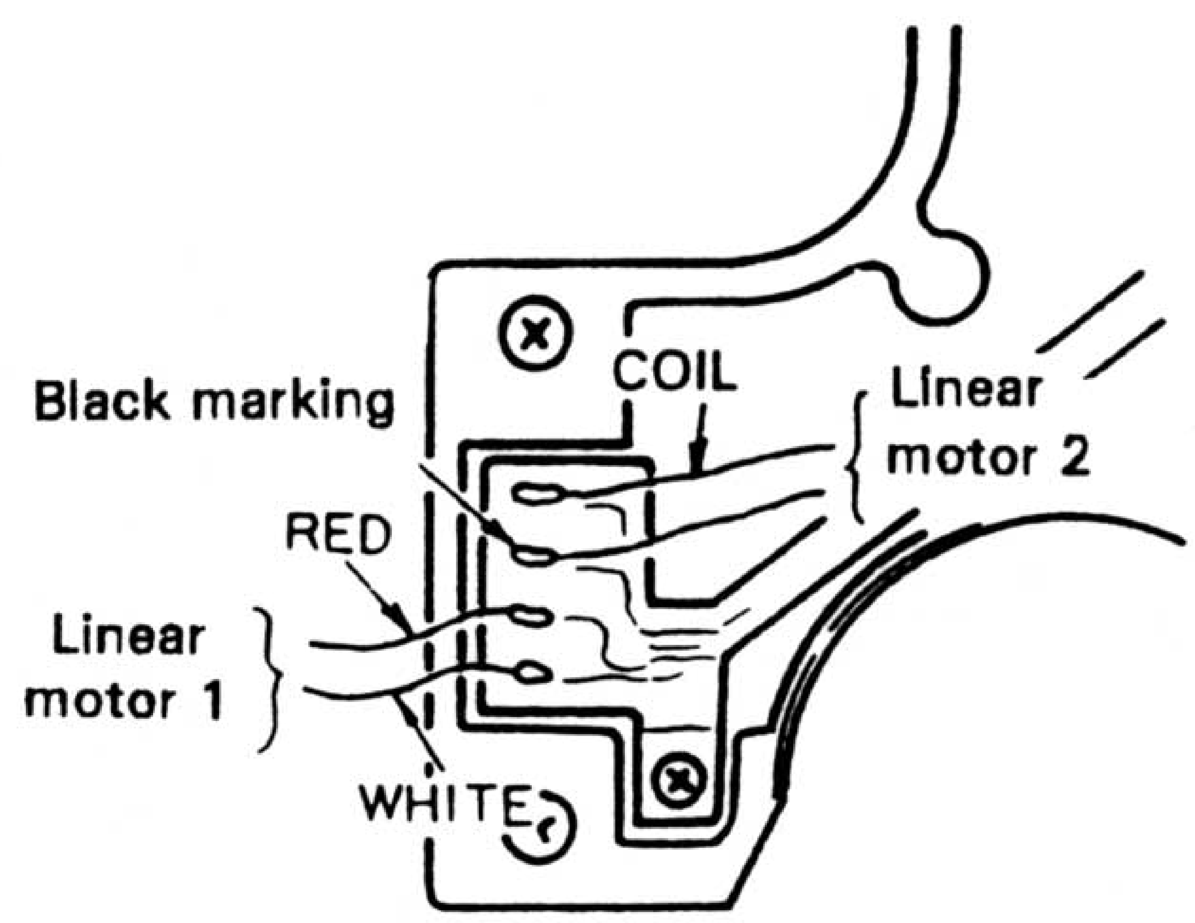



Figure 2

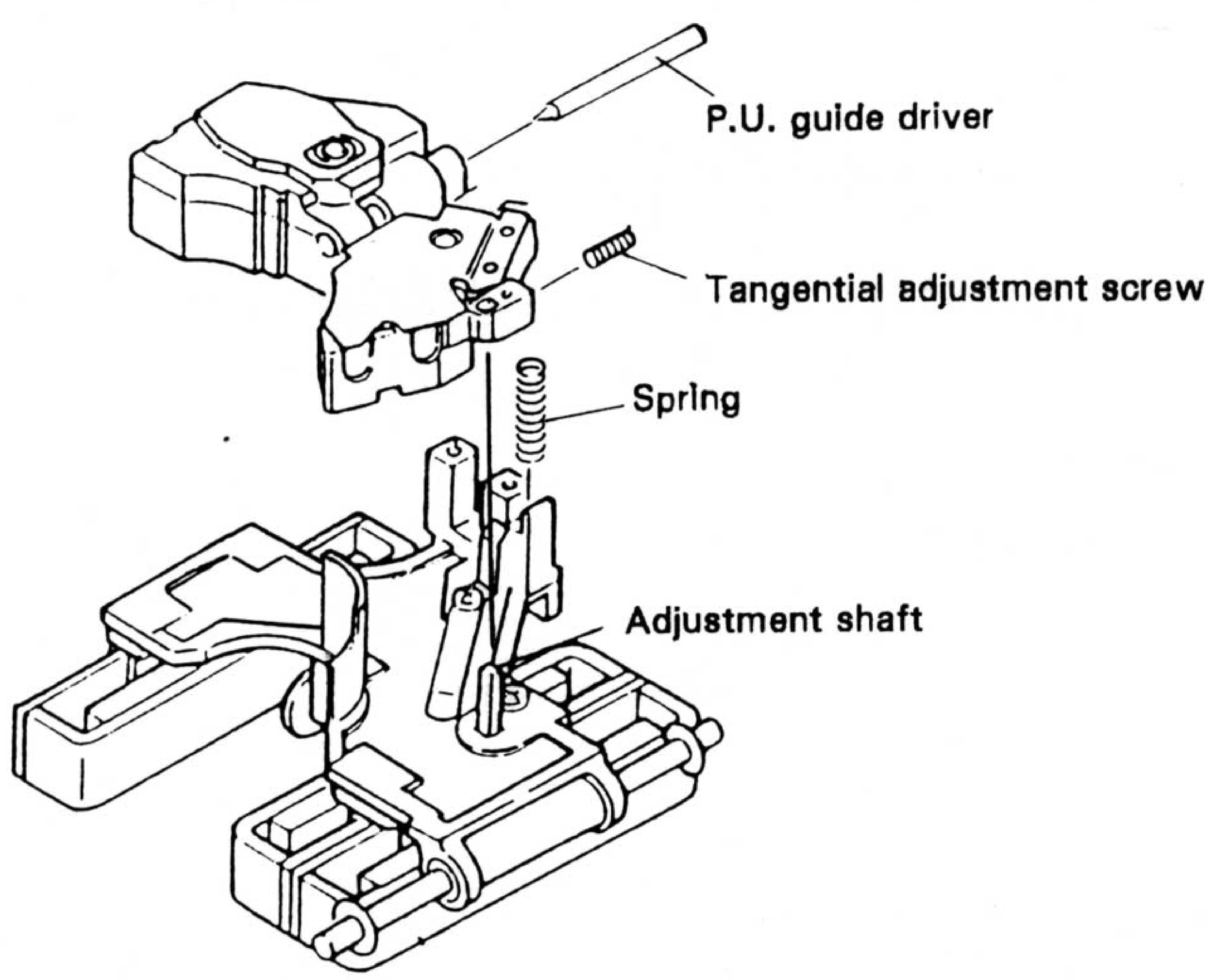
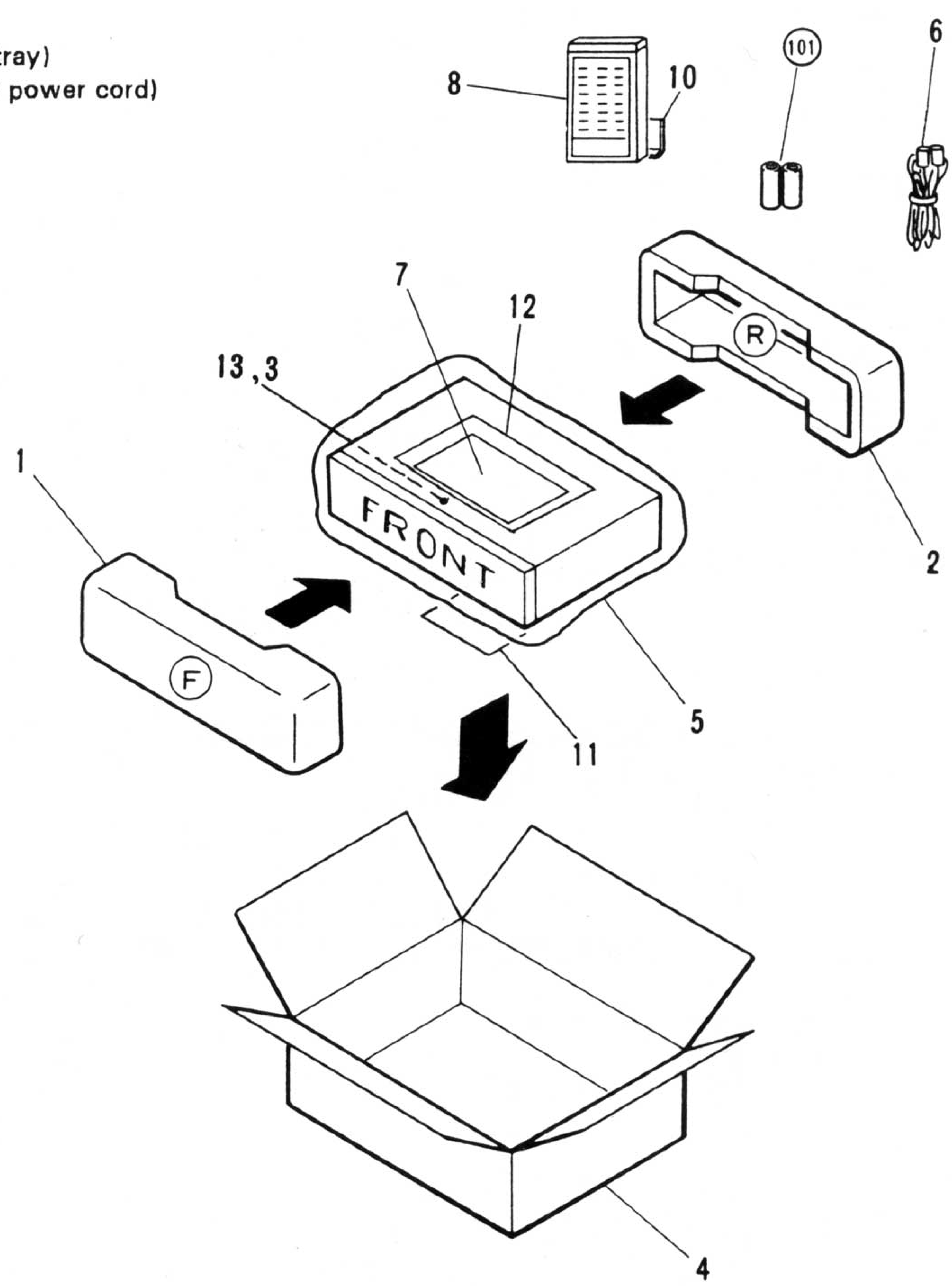



Figure 3

# 3. PACKING

## Parts list of Packing

| Mark | No. | Parts No. | Description |
|---|---|---|---|
| | 1 | PHA1095 | Protector (F) |
| | 2 | PHA1096 | Protector (R) |
| | 3 | PHC1030 | Spacer(In the tray) |
| | 4 | PHG1503 | Packing case (KU/CA type) |
| | 4 | PHG1502 | Packing case (HEM type) |
| | 5 | VHL−037 | Sheet |
| | 6 | PDE1003 | Connection cord with pin plug |
| | 7 | PRB1129 | Operating Instructions (English)(KU/CA type) |
| | 7 | PRE1129 | Operating instructions (English,French,German,Italian, Dutch,Swedish,Spanish, Portguese)(HEM type) |
| | 8 | PWW1037 | Remote control unit |
| | 9 | ............ | ............... |
| | 10 | PNW1153 | Battery cover |
| | 11 | PRM1016 | Caution card |
| | 12 | Z21−038 | Sheet |
| | 13 | PHC1022 | Sheet (In the tray) |
| | 14 | Z21−013 | Sheet (For AC power cord) |
| | 101 | | Battry |



# 4. SCHEMATIC DIAGRAM

FOCUS SERVO LOOP LINE

SIGNAL ROUTE

TRACKING SERVO LOOP LINE

CARRIAGE SERVO LINE

LOADING MOTOR LINE

SPINDLE SERVO ROUTE

1. RESISTORS:
Indicated in Ω, ¼W, ⅛W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10% (M); ±20% tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
: DC voltage (V) at no input signal

4. OTHERS:
: Signal route.
⊘ : Adjusting point.
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.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES:

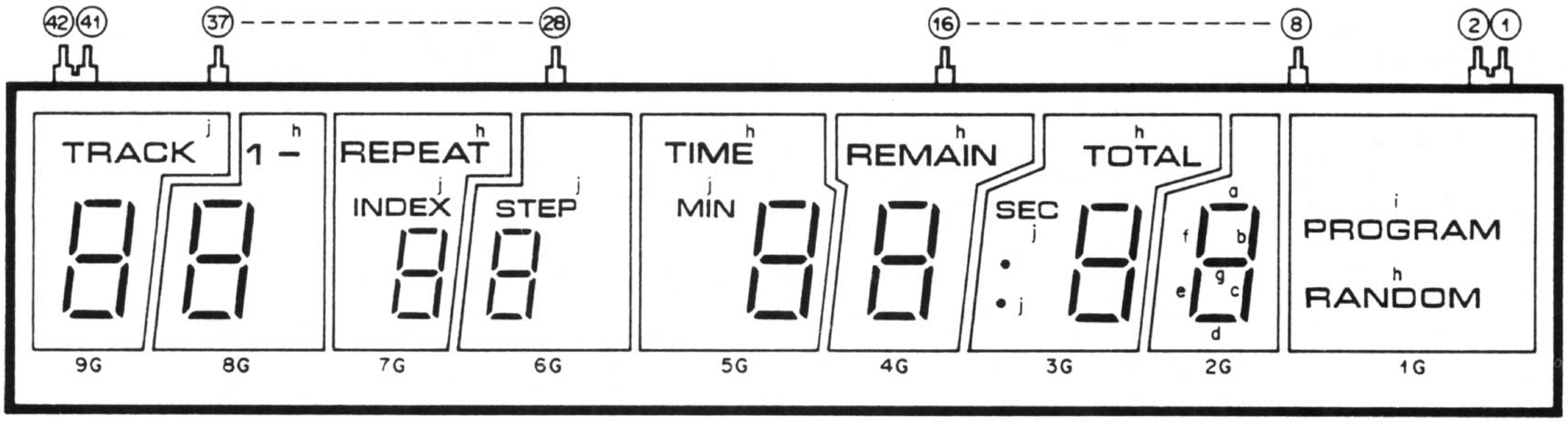
**MAIN BOARD ASSEMBLY**
S1 TACT SW

**PRIMARY BOARD ASSEMBLY**
S301 POWER SW ON – OFF

**FUNCTION BOARD ASSEMBLY**
S213,214 TACT SW
S233–236 TACT SW

▶ ADJUSTMENT POINT

## FL TUBE (PEL1025)




PIN CONNECTION

| PIN NO. | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | F2 | F2 | NP | NP | NP | d | c | e | h | g | f | b | a | j | i | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | NP | NP | NP | NP | NP | F1 | F1 |

## LINE VOLTAGE SELECTION

Line voltage can be changed with the following steps.

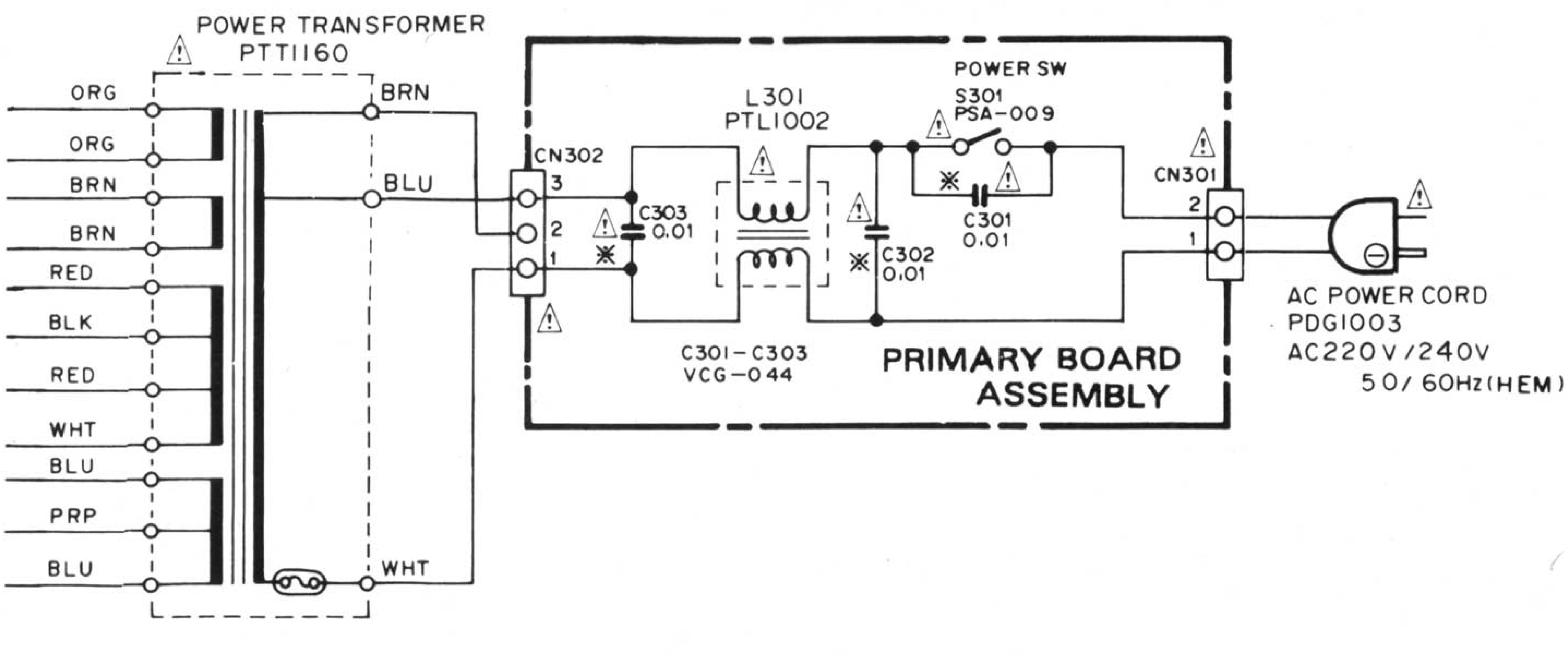
1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the transformer wire of terminal CN302–② and CN302–③ as follows.

| Voltage | Terminal No.CN302–② | Terminal No.CN302–③ |
|---|---|---|
| 220V | PURPLE | BLUE |
| 240V | BLUE | PURPLE |

4. Stick the line voltage label on the rear panel.

| Part No. | Description |
|---|---|
| AAX–193 | 220V label |
| AAX–192 | 240V label |

## FOR HEM TYPE



# 5. P.C.BOARD CONNECTION DIAGRAM

| P.C.B. pattern diagram indication | Corresponding part symbol | Part name |
|---|---|---|
| | or | Transistor |
| D S G | D S G or D S G | FET |
| | | Diode |
| | | Zenner diode |
| | | LED |
| | | Varactor |
| | | Tact switch |
| | | Inductor |
| | | Coil |
| 4 3 2 1 6 | | Transformer |
| 8 1 | | Filter |

| P.C.B. pattern diagram indication | Corresponding part symbol | Part name |
|---|---|---|
| | | Ceramic capacitor |
| | | Mylar capacitor |
| SA | | Styrol capacitor |
| NP | | Electrolytic capacitor (Non polarized) |
| NL | | Electrolytic capacitor (Noiseless) |
| | + | Electrolytic capacitor (Polarized) |
| | | Electrolytic capacitor (Polarized) |
| | | Power capacitor |
| | | Semi-fixed resistor |
| | | Resistor array |
| | | Resistor |
| | | Resonator |
| | | Thermistor |

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the above Table.
3. The capacitor terminal marked with ▭ shows negative terminal.
4. The diode marked with O shows cathode side.
5. The transistor terminal marked with ▭ shows emitter.


MAIN BOARD assembly
(PWZ1768)
SERVO POWER SUPPLY
BOARD assembly
PIC-UP ASSEMBLY
DRIVER
FEED BACK
TRACKING
COIL
FOCUS
COIL
UP
MD
LD
SPINDLE MOTOR
S102 CLAMP SW
CLAMP
OPEN
MOTOR ASSEMBLY
LED BOARD
assembly
FUNCTION BOARD assembly
SUB FUNCTION BO
AUDIO BOARD assembly (PWZ1769)
CAUTION
REPLACE WITH SAME TYPE
NO. ICP-N10 MFD. BY ROHM
CO., LTD. FOR IC22 AND IC23
TEST
IC11 IC9
IC26
IC12 Q27
Q10
IC10
IC22-IC24
Q8
Q9
IC3
VR8
IC2
IC17
VR3
VR4
VR6
Q4
Q25
Q20
IC1
VR5
VR2
VR7
Q1
IC5
Q5
Q6
Q16 Q15
Q14 IC4
Q13 Q12
Q3
Q4
IC506 Q516 Q514 Q520 Q52
Q512 IC500 IC502 Q500 Q502
IC508
IC504


FUNCTION BOARD assembly
SUB FUNCTION BOARD assembly (PWZ1499)
POWER SUPPLY BOARD assembly
AUDIO BOARD assembly (PWZ1769)
PRIMARY BOARD assembly
POWER TRANSFORMER
AC POWER CORD
AC120V/60Hz
PWZ1800
PWZ1799
PWZ1757
PWZ1499
IC506 Q516 Q514 Q520 Q522
Q512 IC500 IC502 Q500 Q502
IC508
IC504
IC505
Q521 Q515 Q517 IC507
Q501 Q503 IC501 IC503 Q513
IC509

This P.C.B. connection diagram is viewed from the foil side.

FUNCTION BOARD assembly
LED BOARD assembly
SUB FUNCTION B
MAIN BOARD assembly
(PWZ1768)
SERVO POWER SUPPLY
BOARD assembly
AUDIO BOARD assembly (PWZ1769
FEED BACK
DRIVER
TRACKING
COIL
FOCUS
COIL
PIC-UP ASSEMBLY
SPINDLE MOTOR
S102 CLAMP SW
CLAMP
OPEN
MOTOR ASSEMBLY
TEST