

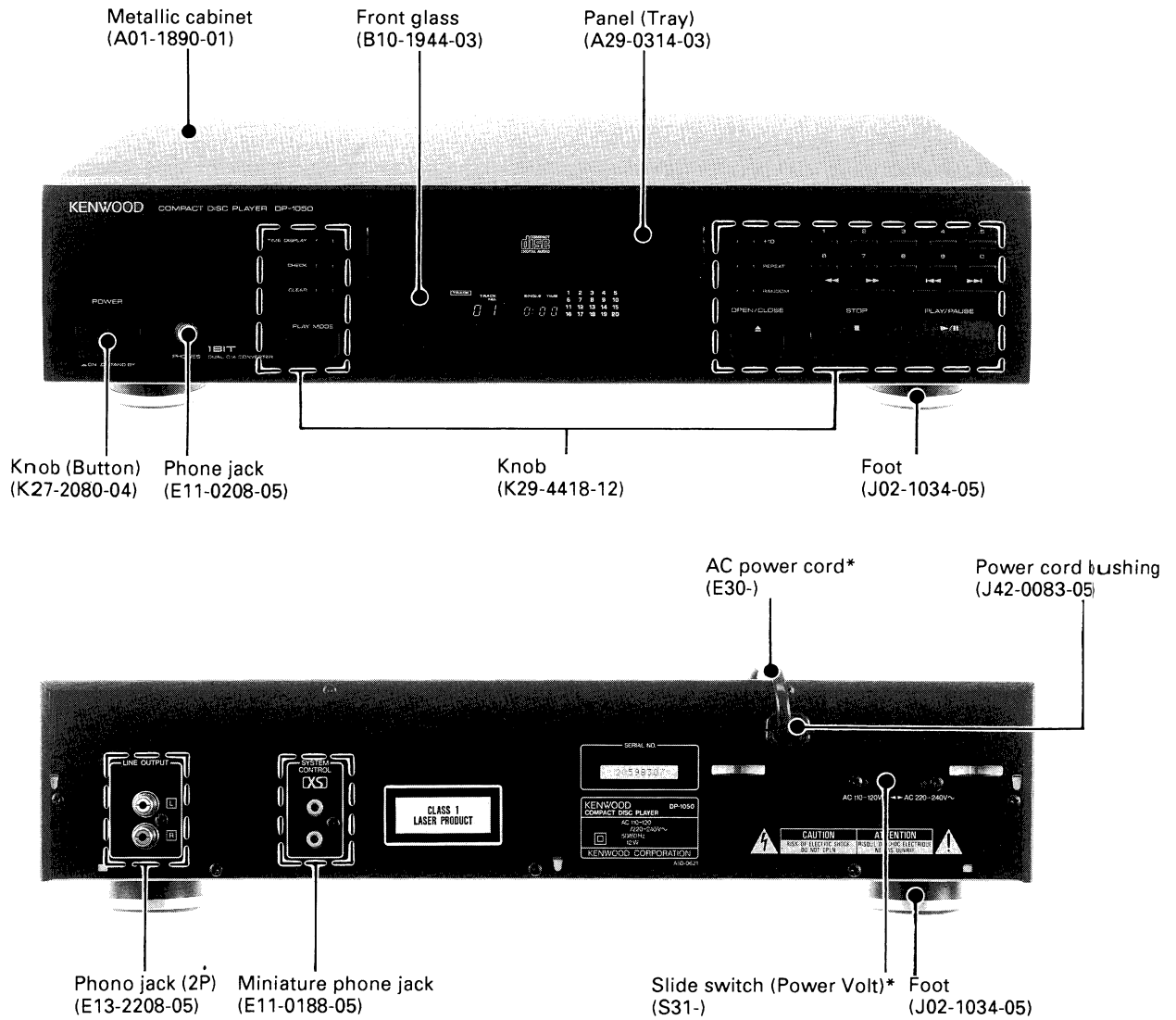
COMPACT DISC PLAYER

DP-1050/2050

SERVICE MANUAL

KENWOOD

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B51-4647-00 (O) 4094



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.

Photo is DP-1050.
*** Refer to parts list on page 34.**

DP-1050/2050

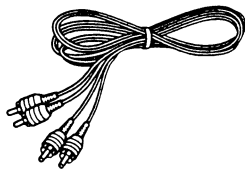
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CONTENTS

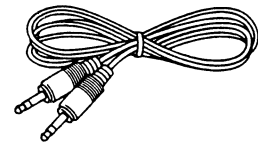
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ACCESSORIES

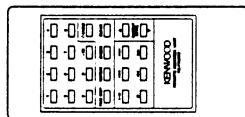
- Audio cord 1
(E30-0505-05)



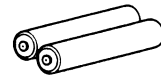
- System control cord 1
(E30-1392-05)



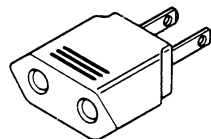
- Remote control unit (DP-2050 only) 1
(A70-0529-05 : P,Y,M,X,T,E type)
(A70-0532-05 : K type)



- Batteries (DP-2050 only) 2
(-)



- AC plug adaptor 1
(E03-0115-05 : M type only)
(Except for some areas)



For the unit with a European AC
plug in areas other than Europe.

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EXTERNAL VIEW

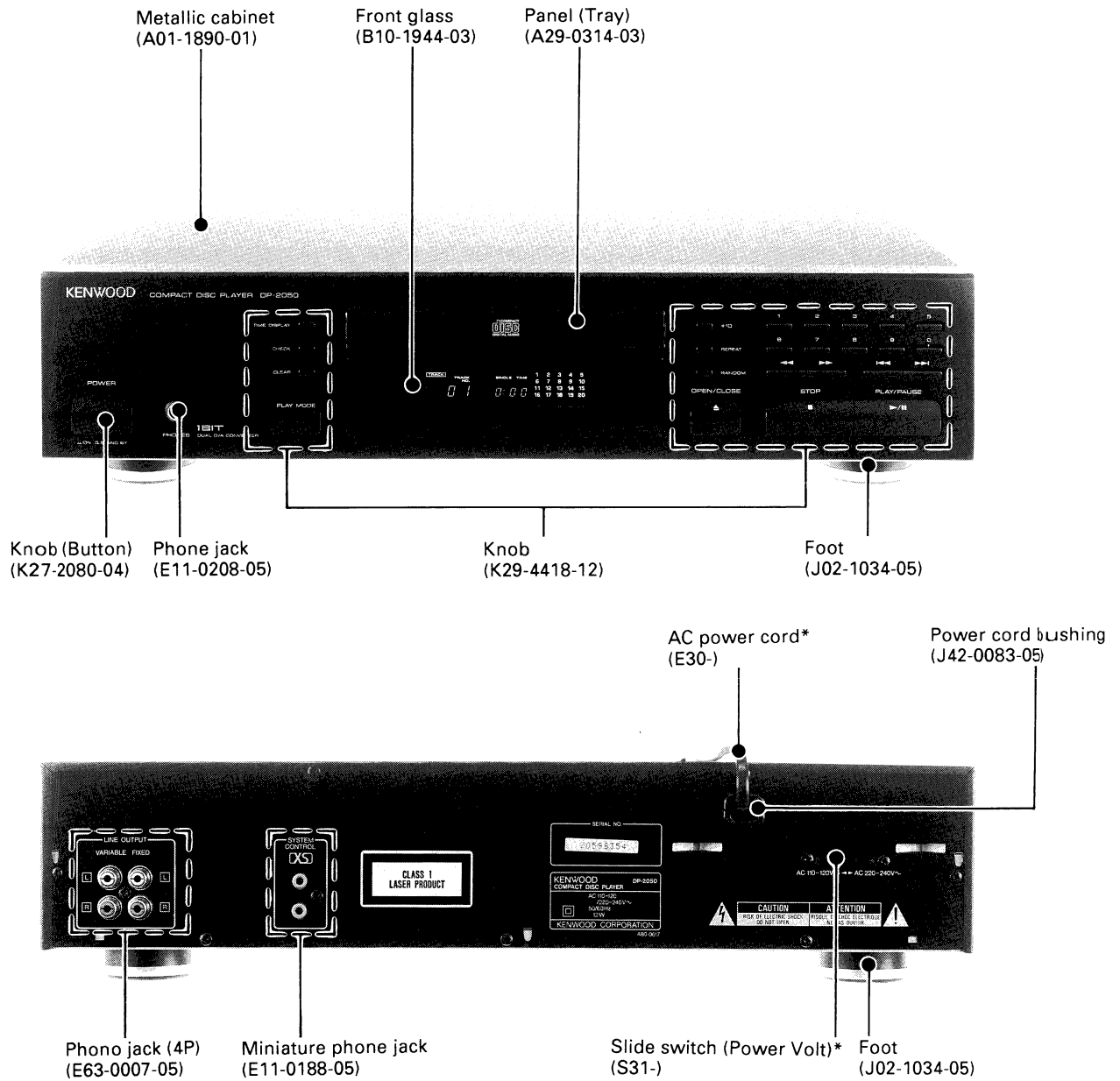
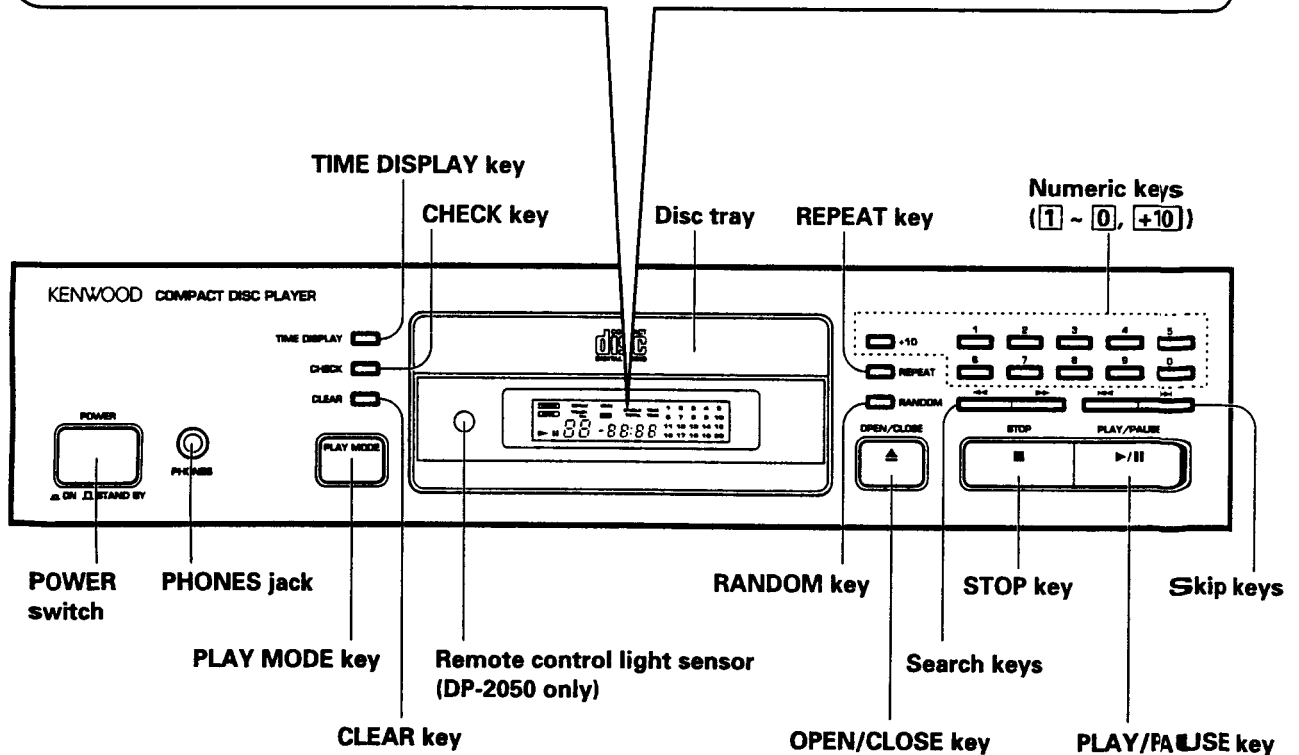
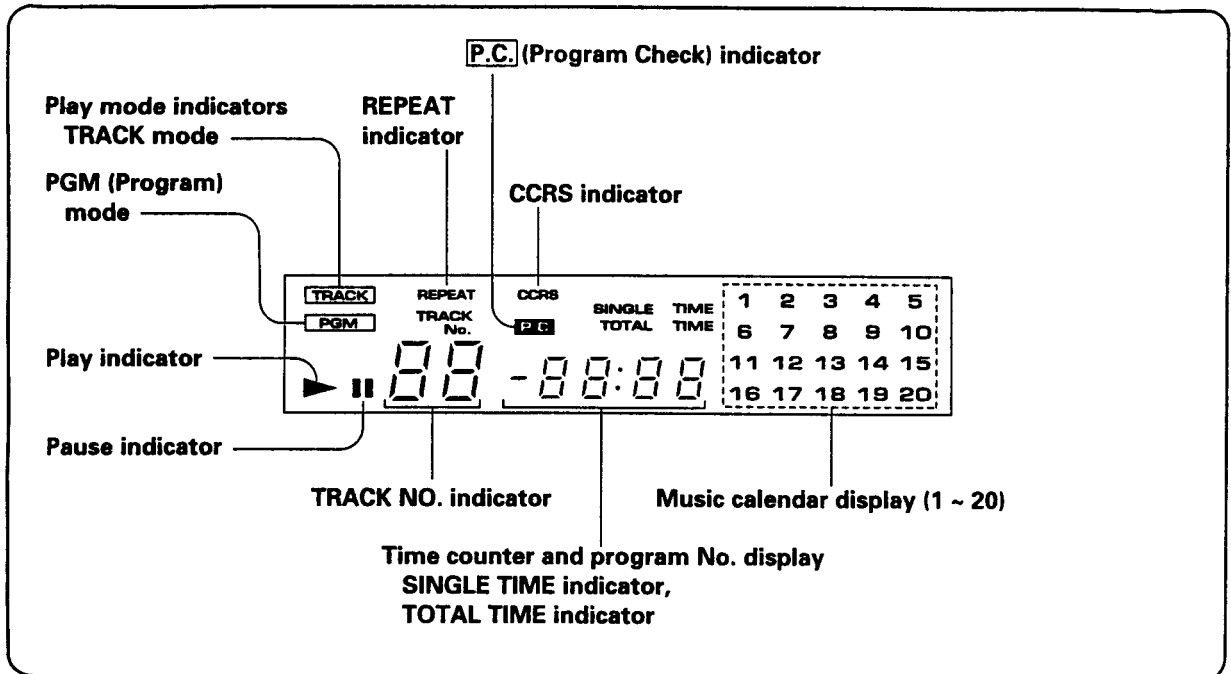


Photo is DP-2050.

* Refer to parts list on page 34.

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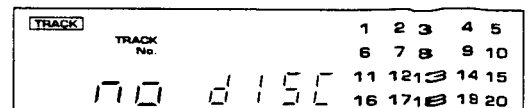
CONTROLS AND INDICATORS



Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

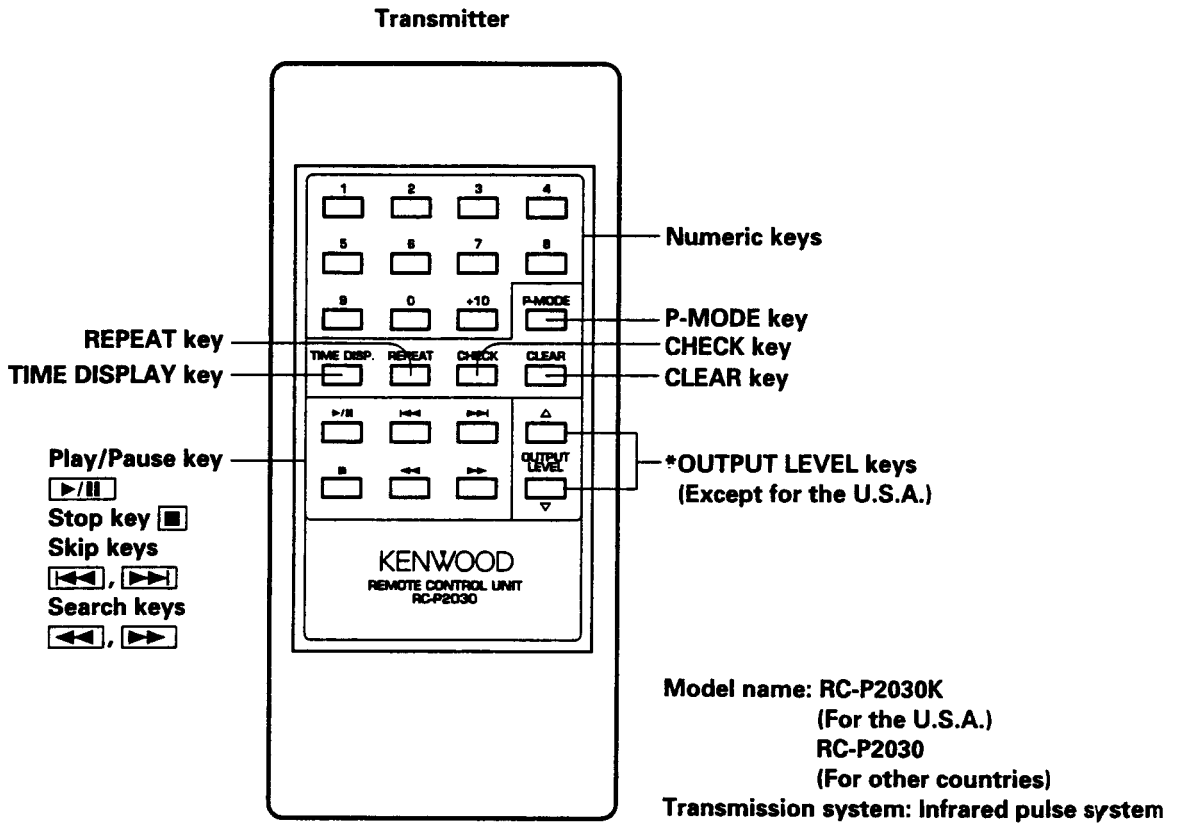
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



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REMOTE CONTROL/CAUTION

The keys marked * are provided only on the remote control unit.



CAUTION

This instruction manual is used for two models.
Model availability and features (functions) may differ depending on the country and sales area.

| Points of difference | | Model | DP-2050 | | DP-1050 |
|----------------------|------------------------|------------------------------|----------------|---------------------|--------------|
| | | | For the U.S.A. | For other countries | |
| Accessories | Remote control unit | RC-P2030K | ○ | Not equipped | Not equipped |
| | | RC-P2030 (OUTPUT LEVEL keys) | Not equipped | ○ | Not equipped |
| | Batteries | R6/AA | ○ | ○ | Not equipped |
| Rear panel | LINE OUTPUT (FIXED) | ○ | ○ | ○ | |
| | LINE OUTPUT (VARIABLE) | Not equipped | ○ | Not equipped | |

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DISASSEMBLY FOR REPAIR

1. How to Disassemble

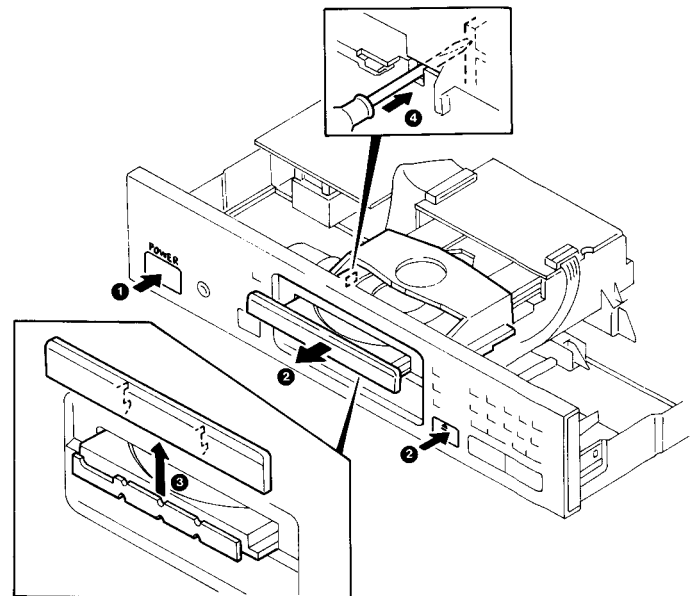
* Remove the metallic cabinet before disassembling.

1. Push power switch to ON (1).

2. Push OPEN key (2)

3. Remove the tray panel (3).

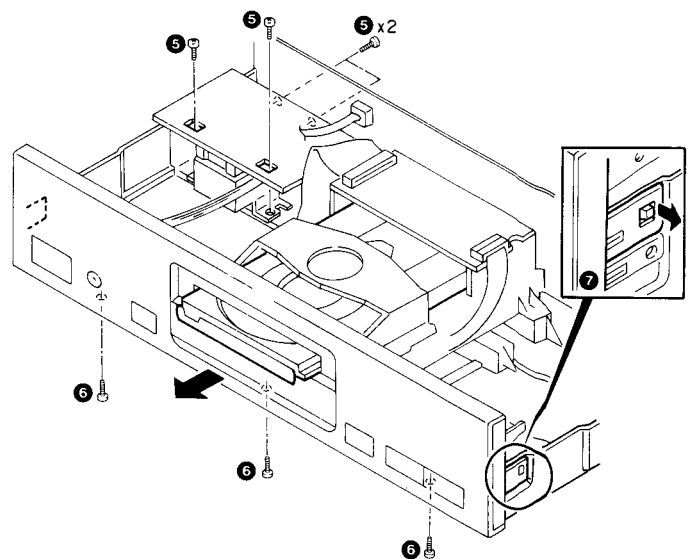
Note : When tray doesn't come out in tray-out mode, insert the screw driver to left-side hole of mechanism and push the slider to right-wards. (4)



4. Remove 4 screws (5).

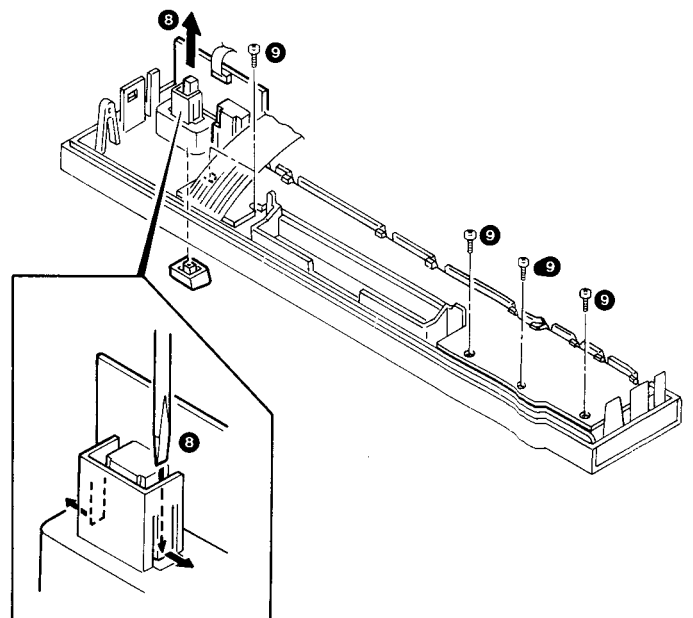
5. Remove 3 screws (6).

6. Remove panel-catchers from chassis (7).



7. Push knob-hooker (8).

8. Remove 5 screws and pc board (9).



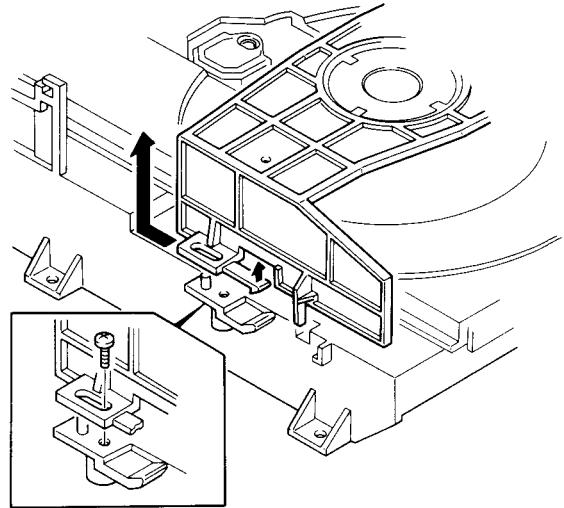
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DISASSEMBLY FOR REPAIR

2. How to Remove Clamper

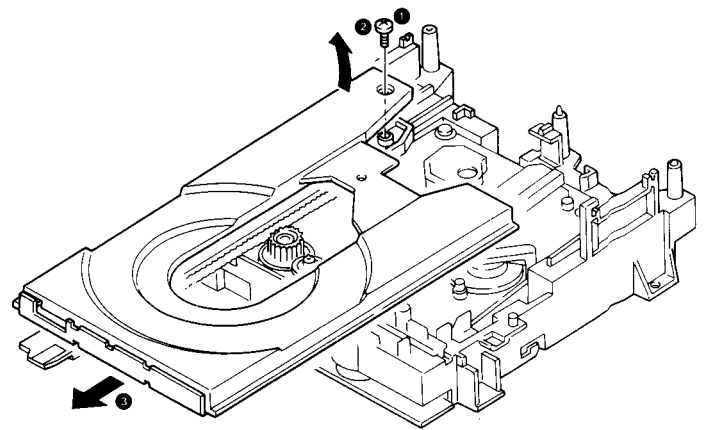
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it back-wards.
3. Lift the clamper ass'y.

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



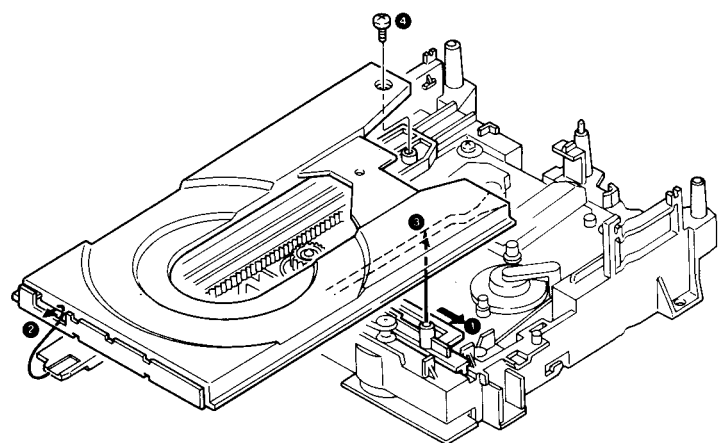
3. How to Remove Tray

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).



4. 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).

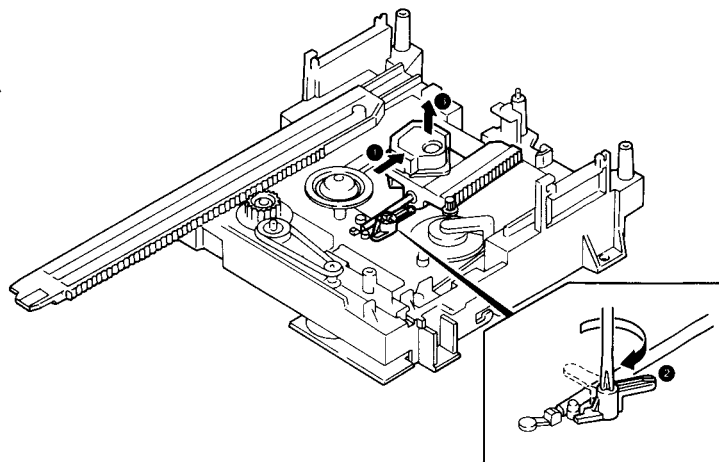


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DISASSEMBLY FOR REPAIR

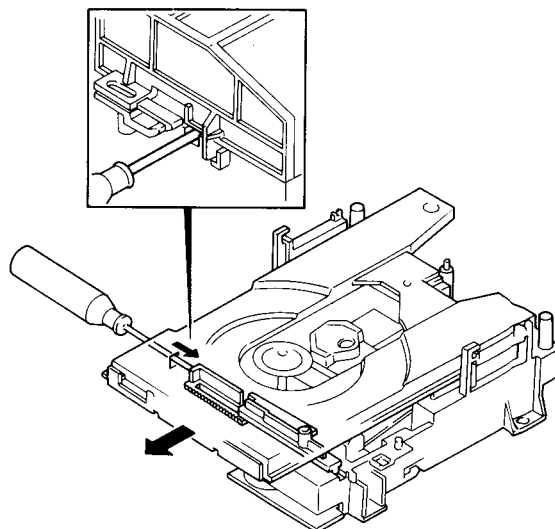
5. How to Replace Pickup

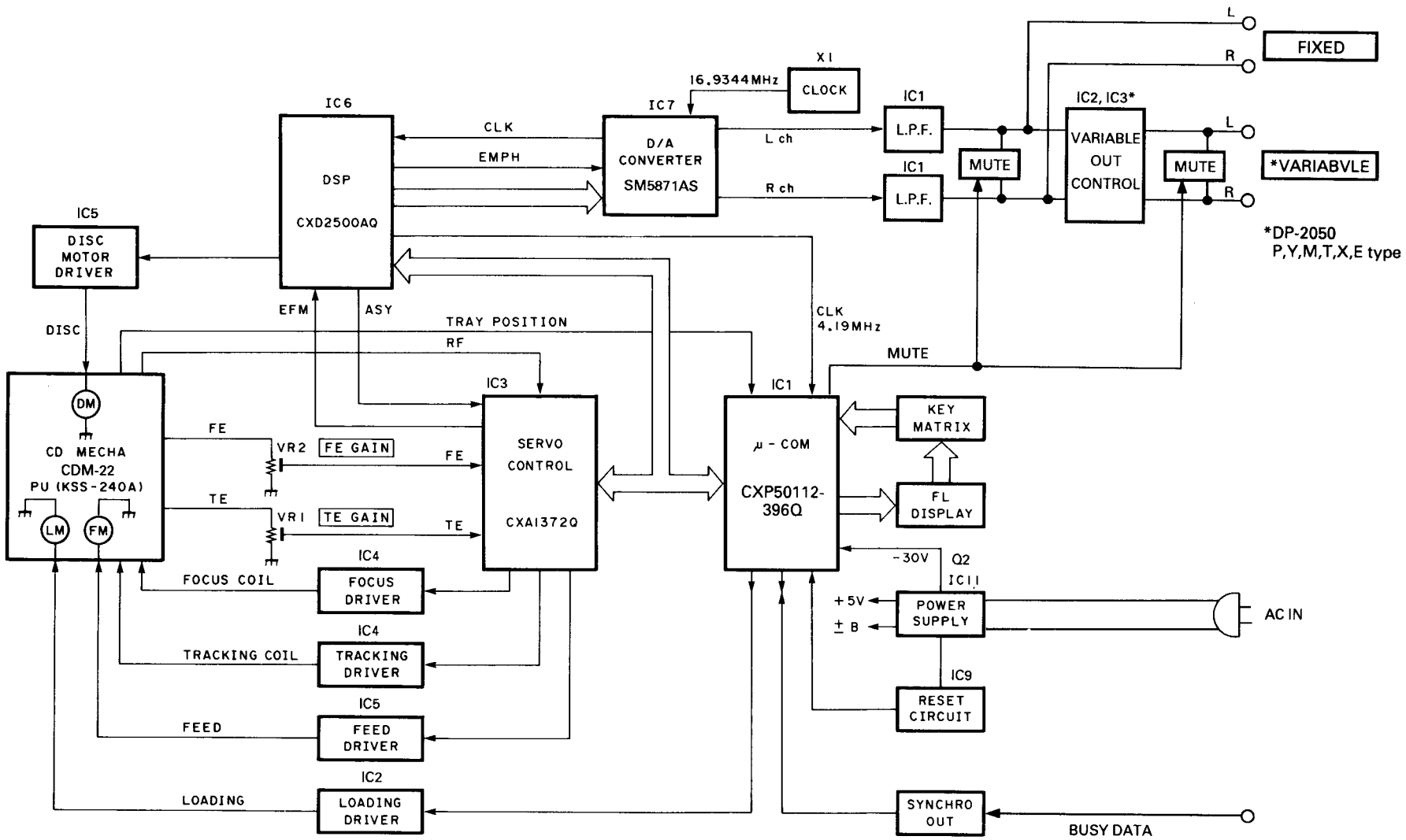
1. Remove clumper ass'y and set tray-open.
2. Move pickup at center position of its all travel (①).
3. Turn rod stopper (②) and lift pickup ass'y (③).



6. 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.





BLOCK DIAGRAM

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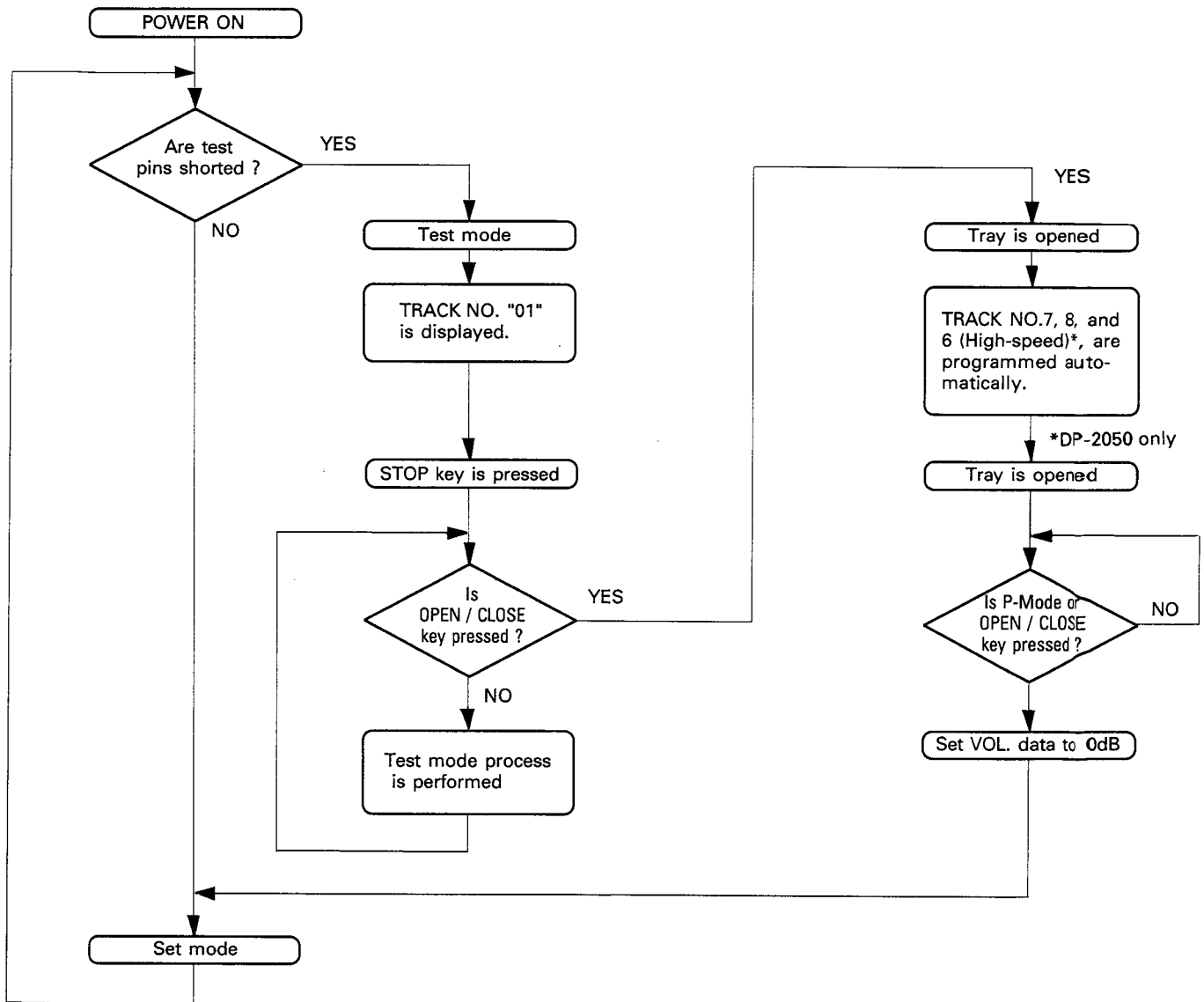
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CIRCUIT DESCRIPTION

1. Test mode

1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE by just short-circuiting the test pins (CN 7 1pin and 2 pin).



CIRCUIT DESCRIPTION

1-2. Key and functions valid test mode

| No. | Input key | Function | Track No. display |
|-----|--------------|---|--|
| 1 | PLAY | (1) Focusing servo ON (2) Tracking servo ON (3) Feed servo ON (4) Mute OFF | TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. and Single time are displayed. |
| 2 | CHECK | (1) Focusing servo ON (2) Tracking servo ON (3) Feed servo OFF (4) Mute ON | TRACK NO. 03 |
| 3 | STOP | (1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF | TRACK NO. 01 |
| 4 | UP ▶▶ | Turns all FL display lamps ON. | TRACK NO. 88 |
| 5 | DOWN ◀◀ | Turns all FL display lamps OFF. "TRACK NO." is lighted. | TRACK NO. 88 |
| 6 | TIME DISPLAY | The contents of the time display can be selected between 2 functions. → Single time ↓ ← Total time | - |
| 7 | RANDOM* | Set playback mode to Normal or High-speed. Normal speed : EDIT goes OFF High-speed : EDIT lights | - |
| 8 | P. MODE | Track No. 7,8, and 6 (High-speed)* are programmed and playback from Track No.7. The test mode is canceled. | - |
| 9 | OPEN/CLOSE | When the tray is opened then closed. Track No. 7, 8, and 6, (High-speed)* are programmed and set is in STOP mode. The test mode is canceled. | TRACK NO. 00 |

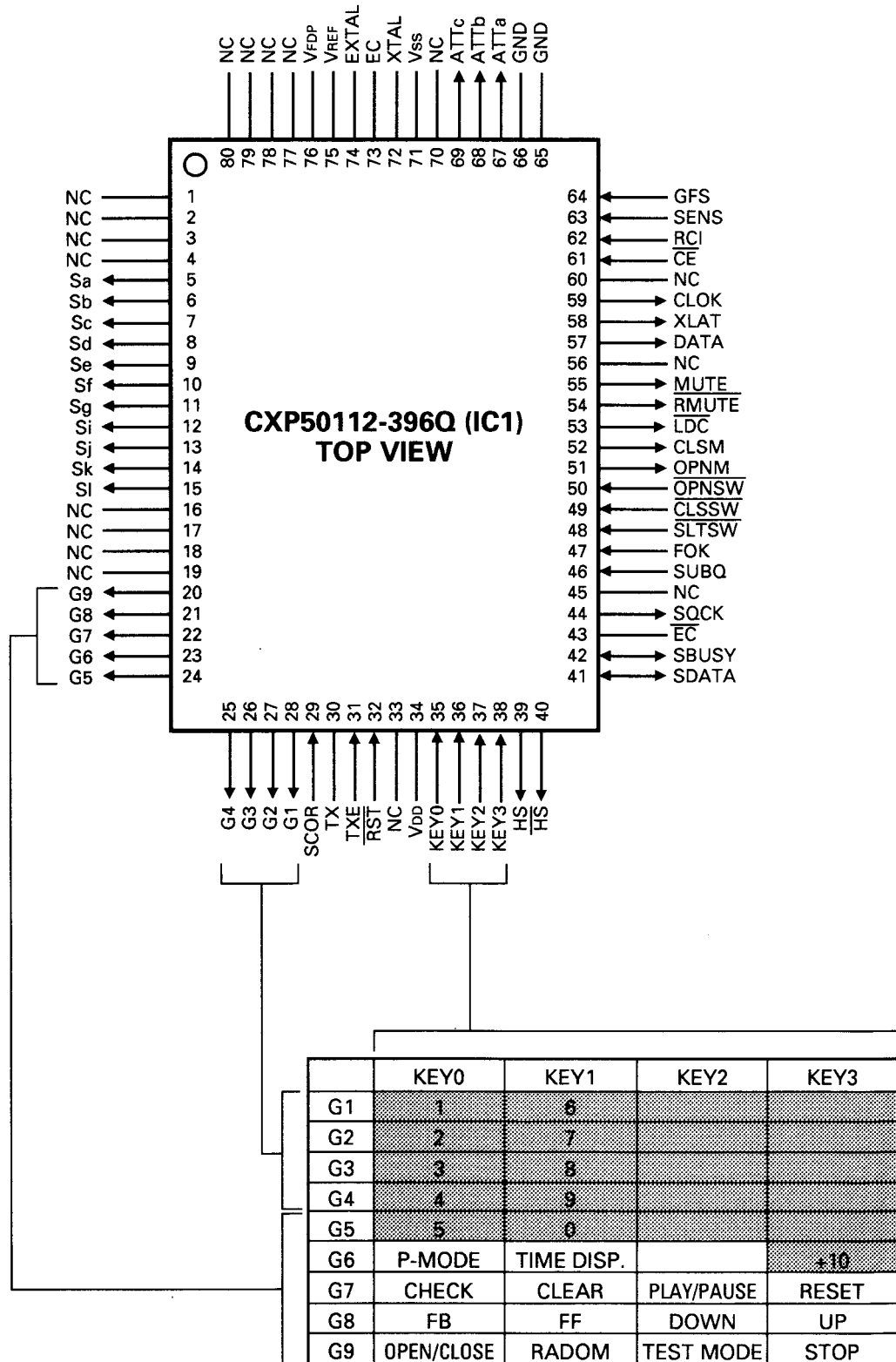
*DP-2050 only

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CIRCUIT DESCRIPTION

2. Microprocessor : CXP50112-396Q (X32- IC1)

2-1. Terminal connection diagram



* DP-2050 only

CIRCUIT DESCRIPTION

2-2. Pin functions

| Pin NO. | Pin name | I/O | Function |
|---------|----------|-----|--|
| 1 | NC | - | - |
| 2 | NC | - | - |
| 3 | NC | - | - |
| 4 | NC | - | - |
| 5 | Sa | O | Display segments a |
| 6 | Sb | O | Display segments b |
| 7 | Sc | O | Display segments c |
| 8 | Sd | O | Display segments d |
| 9 | Se | O | Display segments e |
| 10 | Sf | O | Display segments f |
| 11 | Sg | O | Display segments g |
| 12 | Si | O | Display segments i |
| 13 | Sj | O | Display segments j |
| 14 | Sk | O | Display segments k |
| 15 | Sl | O | Display segments l |
| 16 | NC | - | - |
| 17 | NC | - | - |
| 18 | NC | - | - |
| 19 | NC | - | - |
| 20 | G9 | O | Display grids and key scan 9 |
| 21 | G8 | O | Display grids and key scan 8 |
| 22 | G7 | O | Display grids and key scan 7 |
| 23 | G6 | O | Display grids and key scan 6 |
| 24 | G5 | O | Display grids and key scan 5 |
| 25 | G4 | O | Display grids and key scan 4 |
| 26 | G3 | O | Display grids and key scan 3 |
| 27 | G2 | O | Display grids and key scan 2 |
| 28 | G1 | O | Display grids and key scan 1 |
| 29 | SCOR | I | SCOR signal from CXD2500AQ |
| 30 | TX | - | - |
| 31 | TXE | I | GND |
| 32 | RST | I | Reset (Active L) |
| 33 | NC | - | - |
| 34 | VDD | - | Power supply (+5V) |
| 35 | KEY0 | O | Key return 0 |
| 36 | KEY1 | O | Key return 1 |
| 37 | KEY2 | O | Key return 2 |
| 38 | KEY3 | O | Key return 3 |
| 39 | HS | O | Normal or double speed selector (H = Double, L = Normal) |
| 40 | HS | O | Normal or double speed selector (H = Normal, L = Double) |
| 41 | SDATA | I/O | DATA signal of serial system control |
| 42 | SBUSY | I/O | BUSY signal of serial system control |
| 43 | EC | - | - |
| 44 | SOCK | O | Reading clock for Q data |
| 45 | NC | - | - |
| 46 | SUBQ | I | Q data signal |
| 47 | FOK | O | FOK signal from RF amp (CXA1372Q) |
| 48 | SLTSW | I | Start limit switch (H = OFF, L = ON) |
| 49 | CLSSW | I | Tray close switch (H = OFF, L = ON) |
| 50 | OPNSW | I | Tray open switch (H = OFF, L = ON) |

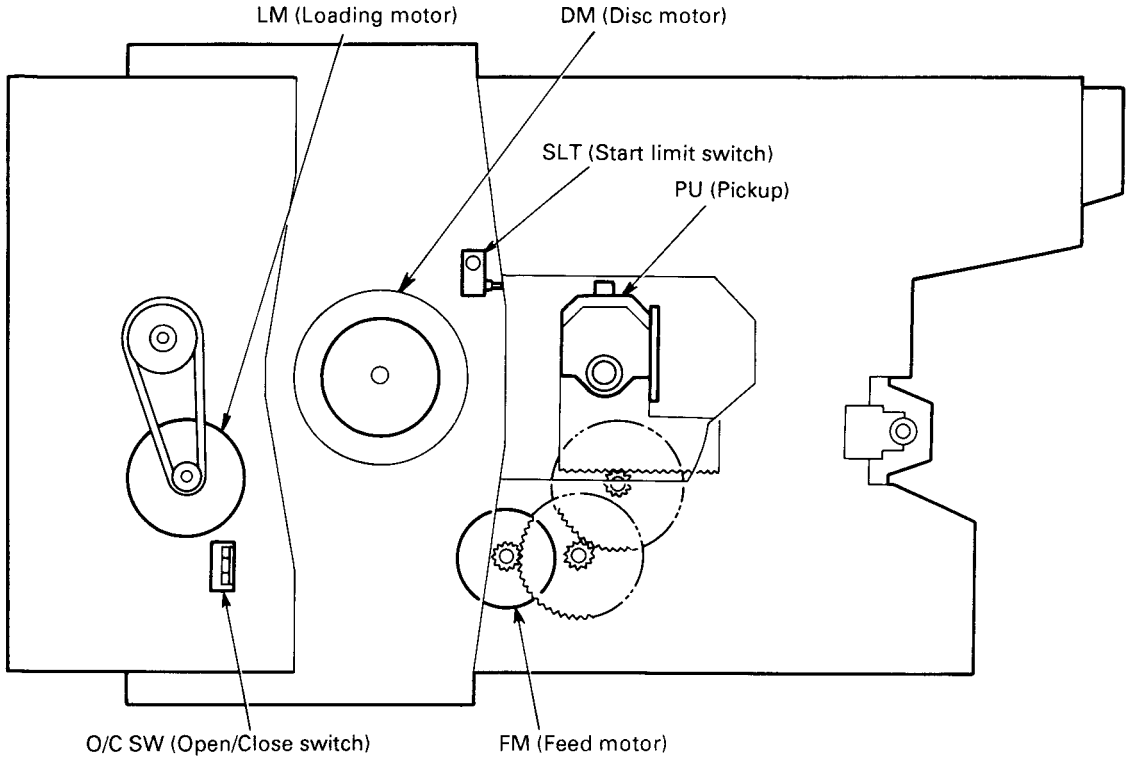
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CIRCUIT DESCRIPTION

| Pin NO. | Pin name | I/O | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---------------------------|-----|---|-----|---|----|----|----|---|----|----|----|------|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|
| 51 | OPNM | O | Tray open / close motor control (Open mode : OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | CLSM | O | Tray open / close motor control (Open mode: OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | $\overline{\text{LDC}}$ | O | Laser ON signal (H = OFF, L = ON) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | $\overline{\text{RMUTE}}$ | O | Relay mute (H = OFF, L = ON) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | MUTE | O | Mute signal output to CXD2500AQ (H = ON, L = OFF) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | DATA | O | Data control signal to signal and servo processors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | XLAT | O | Latch control signal to signal and servo processors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | CLOK | O | Clock control signal to signal and servo processors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | $\overline{\text{CE}}$ | O | Electricity failure detecting signal (H to L) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | RCI | I | Input of remote control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | SENS | I | Sense control signal from signal and servo processor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | GFS | I | Frame synchro signal from CXD2500AQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | GND | - | Ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | GND | - | Ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Variable output table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th>-dB</th> <th>0</th> <th>2</th> <th>4</th> <th>6</th> <th>8</th> <th>10</th> <th>12</th> <th>14</th> </tr> </thead> <tbody> <tr> <td>ATTa</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> </tr> <tr> <td>ATTb</td> <td>L</td> <td>L</td> <td>H</td> <td>H</td> <td>L</td> <td>L</td> <td>H</td> <td>H</td> </tr> <tr> <td>ATTc</td> <td>L</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>H</td> <td>H</td> <td>H</td> </tr> </tbody> </table> | -dB | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | ATTa | L | H | L | H | L | H | L | H | ATTb | L | L | H | H | L | L | H | H | ATTc | L | L | L | L | H | H | H | H |
| -dB | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATTa | L | H | L | H | L | H | L | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATTb | L | L | H | H | L | L | H | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATTc | L | L | L | L | H | H | H | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | ATTa | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | ATTb | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | ATTc | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | Vss | - | Ground | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | XTAL | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73 | EC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | EXTAL | - | 4.19MHz Ceralock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | VREF | - | Power supply (+5V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | VFDP | - | Power supply (-30V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | NC | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

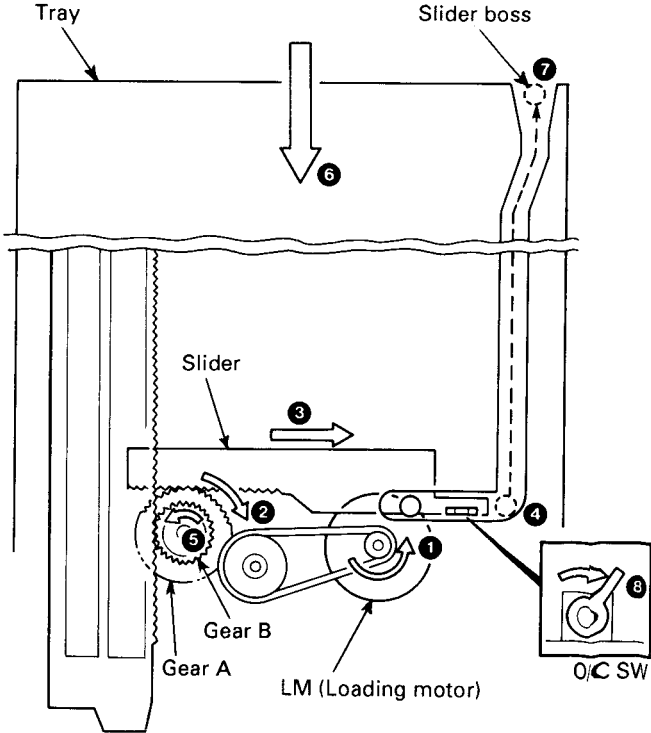
DP-1050/2050

MECHANISM OPERATION DESCRIPTION



1. TRAY OPEN

The loading motor turns to the arrow direction (1) when pushing open key. The gear (A or B), which is not locked, starts to turn. In this case, the gear A turns to arrow direction (2) because the tray is locked by slider boss. The slider starts to move to arrow direction (3) by the gear A. The Slider boss moves rightwards along the groove of the tray-back. The gear A and the slider stop (pickup mechanism is down) when slider boss at the groove-end of the right side (4). At this time, the tray-lock function is free because slider boss is in front and backwards. The gear B starts to turn to arrow direction (5). The tray-open function (6) starts when the gear of the tray-back moves. The slider boss moves rightwards slightly (7). This movement changes switch to arrow direction (8) and tray-open function is finished perfectly.



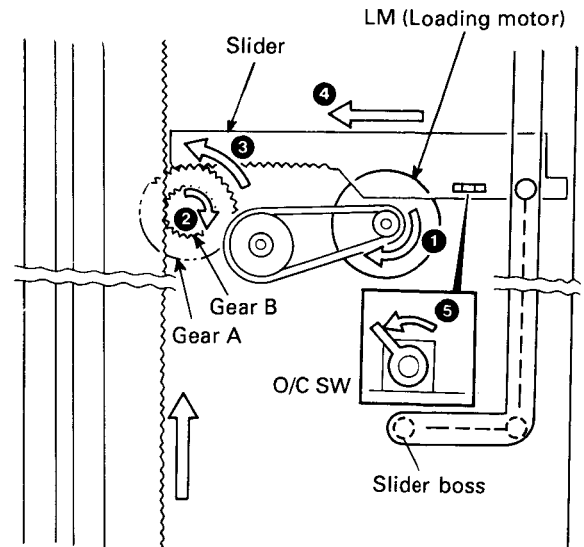
DP-1050/2050

MECHANISM OPERATION DESCRIPTION

2. TRAY CLOSE

The loading motor turns to the arrow direction (1) when pushing close key. Gear B starts to turn to arrow direction (4). The tray-close function (2) starts by the gear of the tray-back. The gear B stops to turn when slider boss moves at the point from front and backwards to right and leftwards.

The slider moves to arrow direction (4) when the gear A starts to turn (3). The lever changes switch to arrow direction (5), and the tray-close function is finished perfectly.



ADJUSTMENT

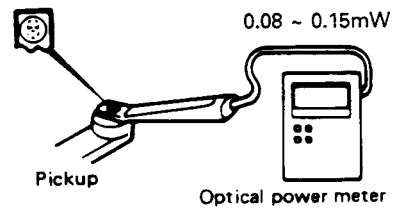
REGLAGE/ABGLEICH

| No. | ITEM | INPUT SETTING | OUTPUT SETTING | PLAYER SETTING | ALIGNMENT POINT | ALIGN FOR | FIG. |
|-----|---------------|---|--|--|-------------------|--|------|
| 1 | LASER POWER | - | Apply the sensor section of the optical power meter on the pickup lens. | Short-circuit pins TEST and enter the test mode. Press the MANUAL S. (▶▶) to move the pickup outwards. Press the "0" key to check that the LD emits light. Then, confirm that the display is "03". | - | On the power from 0.08 to 0.15mW, when the diffraction grating is correctly aligned with the RF level of 1.5Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable. | (a) |
| 2 | FOCUS GAIN | Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 2 and 3. | Connect a LPF to CN4 pin 2-3, to which connect an oscilloscope or two AC voltmeters. | Press the PLAY key. Confirm that the display is "05". | FOCUS GAIN VR2 | Two VTVMs should read the same value. | (b) |
| 3 | TRACKING GAIN | Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 5 and 6. | Connect a LPF to CN4 pin 5-6, to which connect an oscilloscope or two AC voltmeters. | Press the PLAY key. Confirm that the display is "05". | TRACKING GAIN VR1 | Two VTVMs should read the should value. | (c) |

(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.
LPF: around 47kohms+390pF or so.

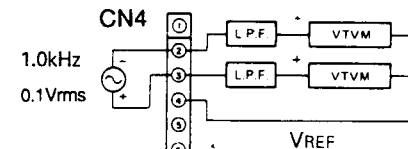
DP-1050/2050

(a) Laser Power

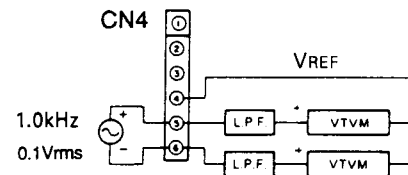


(b) Focus Gain, (c) Tracking Gain

Focus gain :

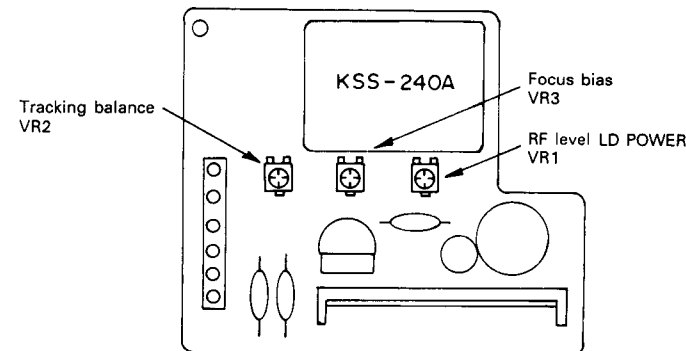


Tracking gain :



CAUTION

Pickup (KSS-240A) is adjustment free in repairing, please don't disassemble and adjust it.



| N° | ARTICLE | ENTREE | SORTIE | MISE EN FONCTIONNEMENT DU LECTEUR | POINT DE CONTROLE | CRITERE D'APPRECIATION | FIG. |
|----|----------------------|--|---|---|--------------------------|---|------|
| 1 | PUISSANCE DU LASER | - | Appliquer la partie sensible de l'indicateur de puissance optique sur la lentille de lecture | Court-circuiter les broches "TEST" et sélectionner le mode d'essai. Appuyer sur la touche "MANUAL S. (▶▶)" pour déplacer la tête de lecture vers l'extérieur. Appuyer sur la touche "0" pour vérifier que le disque laser émet une lumière. S'assurer ensuite que l'écran affiche "03". | - | Lorsqu'en cas de puissance de 0,08 à 0,15mW, le réseau de diffraction est correctement aligné sur un niveau de haute fréquence de 1,5 Vc-c ou plus et un niveau d'erreur de piste (servomécanisme ouvert) de 1,5 Vc-c ou plus, la tête de lecture est admissible. | (a) |
| 2 | GAIN DE FOCALISATION | Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. sur les broches 2 et 3 du CN4. | Brancher un filtre passe-bas aux broches 2-3 du CN4 et y connecter un oscilloscope ou deux voltmètres à CA. | Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05". | GAIN DE FOCALISATION VR2 | Deux voltmètres doivent indiquer la même valeur. | (b) |
| 3 | GAIN D'ALIGNEMENT | Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. aux broches 5 et 6 du CN4. | Brancher un filtre passe-bas aux broches 5-6 du CN4 et y connecter un oscilloscope ou deux voltmètres à CA. | Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05". | GAIN D'ALIGNEMENT VR1 | Deux voltmètres doivent indiquer la même valeur. | (c) |

(NOTE) Disque de type 4 : DISQUE D'ESSAI SONY YEDS-18 ou équivalent

Filtre passe-bas : autour de 47kohms+390pF environ

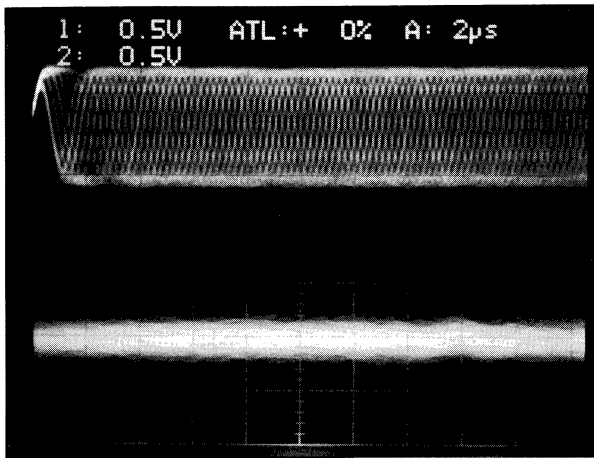
| Nr. | Gegenstand | Eingang | Ausgang | Player | Abgleich | Abgleichen für | Abb |
|-----|-----------------------|--|--|---|-----------------------------------|--|-----|
| 1 | LASER-SPANNUNG | - | Sensorteil des optischen Leistungsmesser auf die Pickup-Linse setzen. | TEST-Kontakte kurzschließen und auf Testbetrieb schalten. MANUAL S. (▶▶) drücken, um den Pickup nach oben zu bewegen. Taste "0" drücken, um zu prüfen, ob der LD Licht ausstrahlt. Sicherstellen, daß im Display "03" angezeigt wird. | - | Bei Eingangsleistung von 0,08 bis 0,15 mW ist der Pickup in Ordnung, wenn das optische Gitter korrekt auf den RF-Pegel von mindestens 1,5 Vss ausgerichtet ist und der TE-Pegel. | (a) |
| 2 | FOKUS-VERSTÄRKUNG | Test-Disc Typ 4. Den Kontakten 2 und 3 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten. | Ein Tiefpaßfilter an die Kontakte 2 und 3 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen. | Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird. | FOCUS GAIN VR2 (Potentiometer) | Zwei VTVM müssen den gleichen Wert zeigen. | (b) |
| 3 | SPURHALTE-VERSTÄRKUNG | Test-Disc Typ 4. Den Kontakten 5 und 6 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten. | Ein Tiefpaßfilter an die Kontakte 5 und 6 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen. | Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird. | TRACKING GAIN VR1 (Potentiometer) | Zwei VTVM müssen den gleichen Wert zeigen. | (c) |

(Zur Beachtung) Test-Disc Typ 4 : Sony YEDS-18 Test-Disc oder gleichwertig.

Tiefpaßfilter : ca. 47kOhm+390pF

DP-1050/2050

ADJUSTMENT



↑
16µs

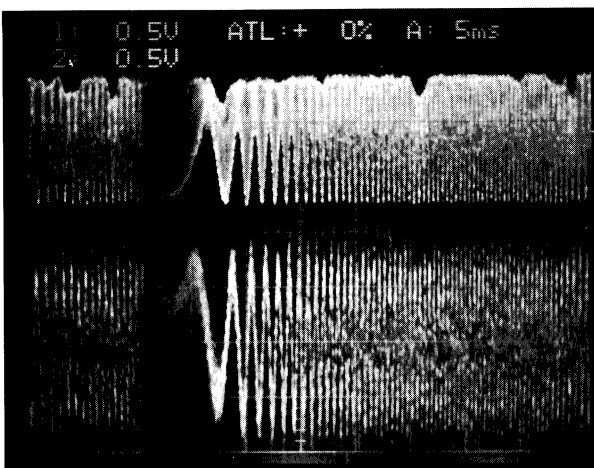
CH1
RF signal

← 0(V)

← VREF

CH2
TE signal

- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 16µs after RF signal, in the form of a projection.



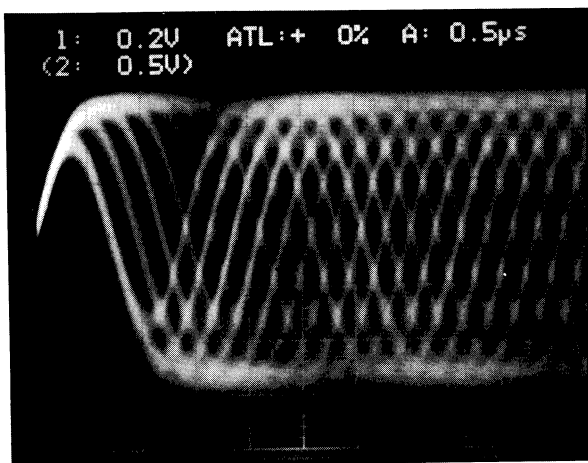
CH1
RF signal

← 0(V)

← VREF

CH2
TE signal

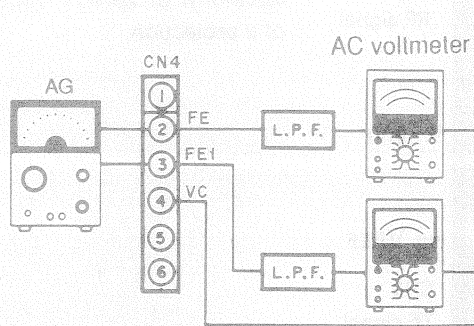
- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)



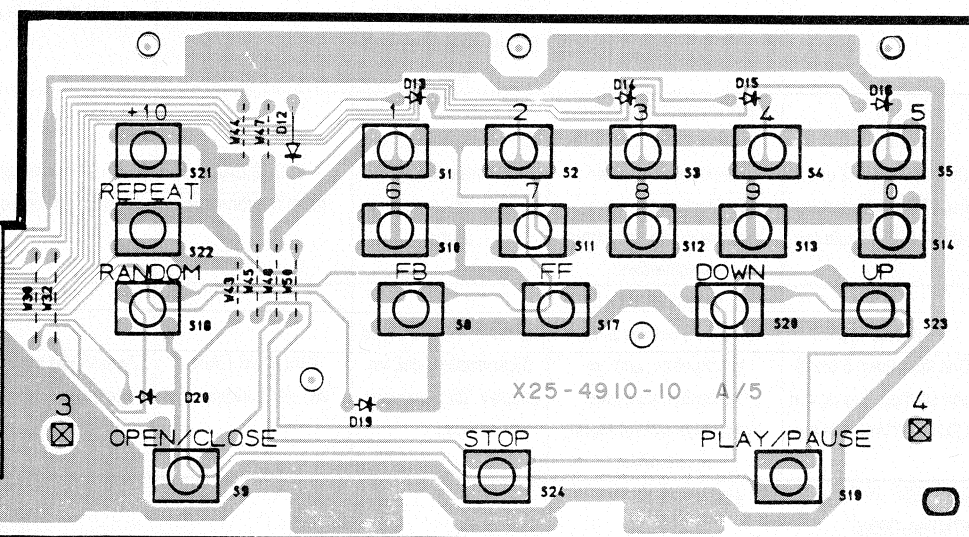
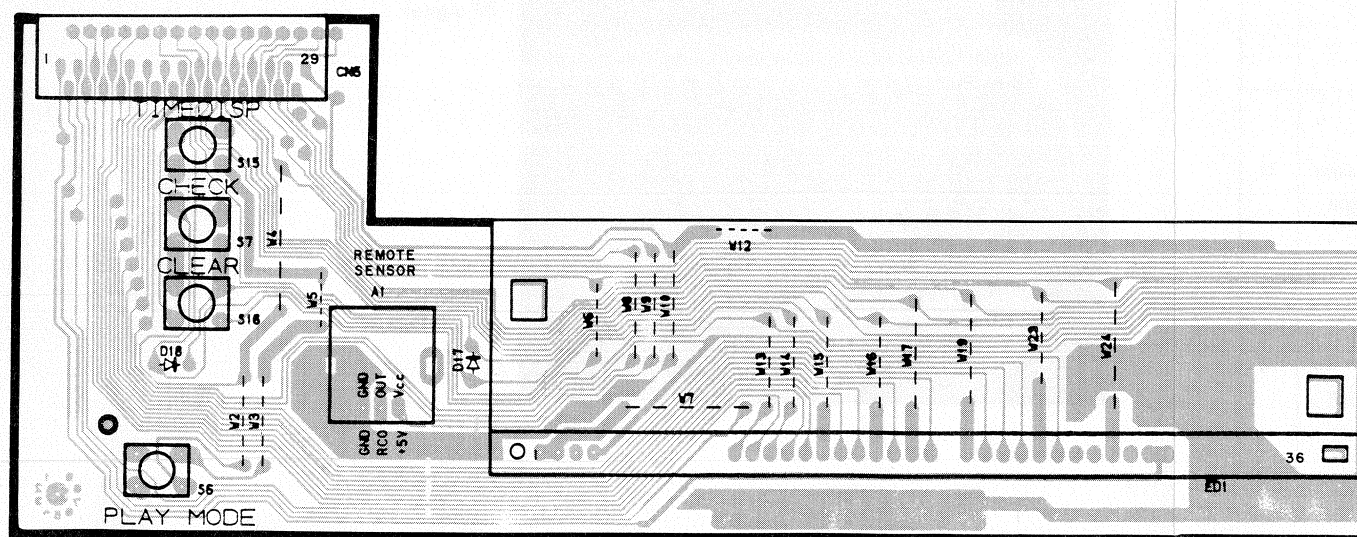
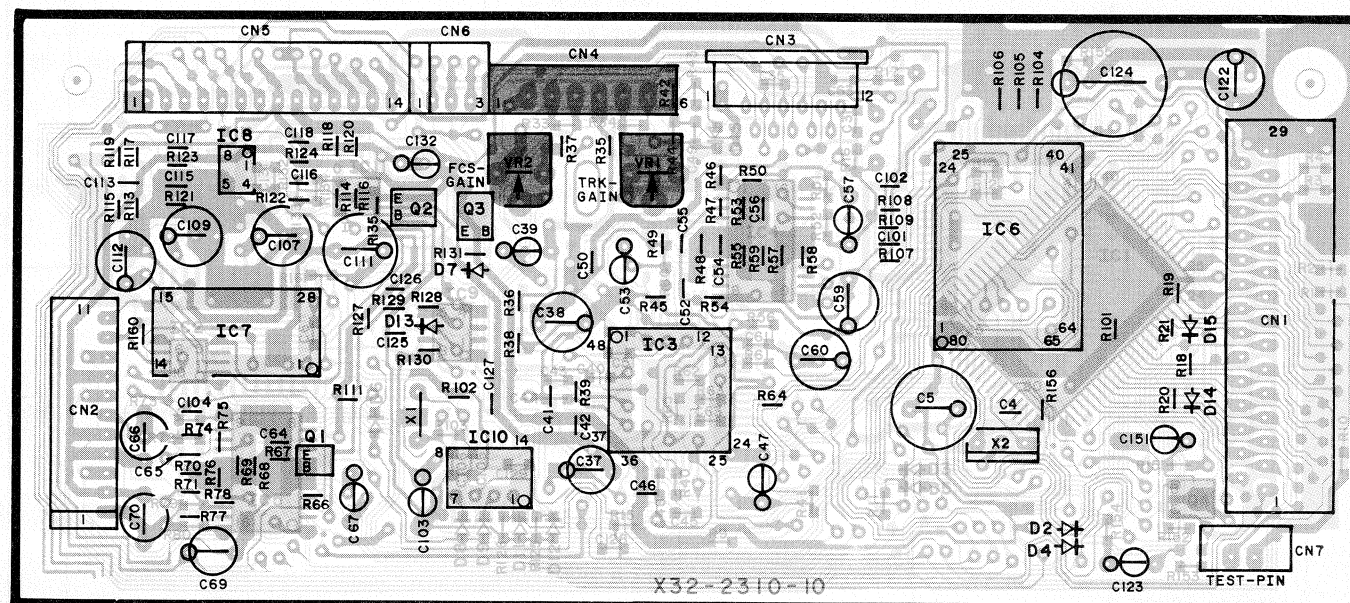
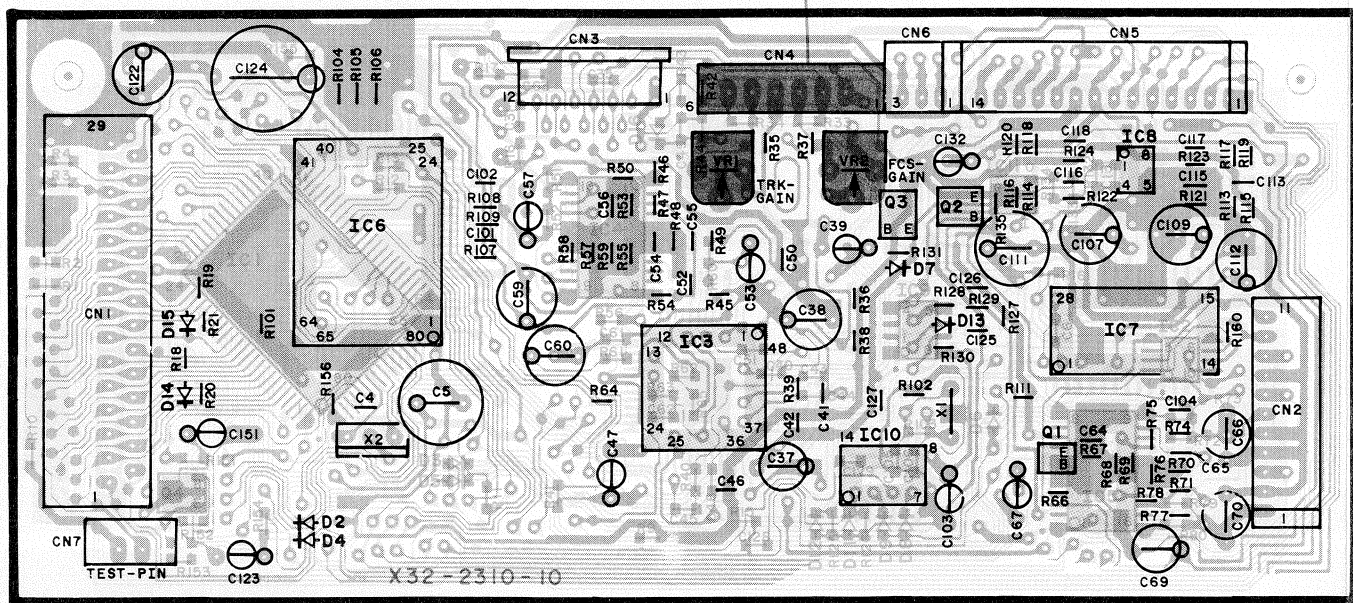
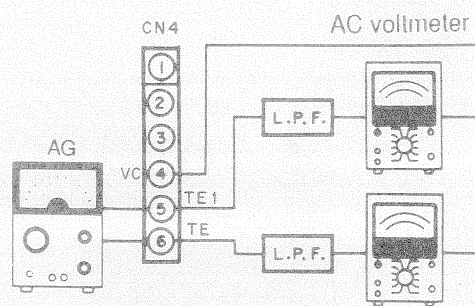
RF signal

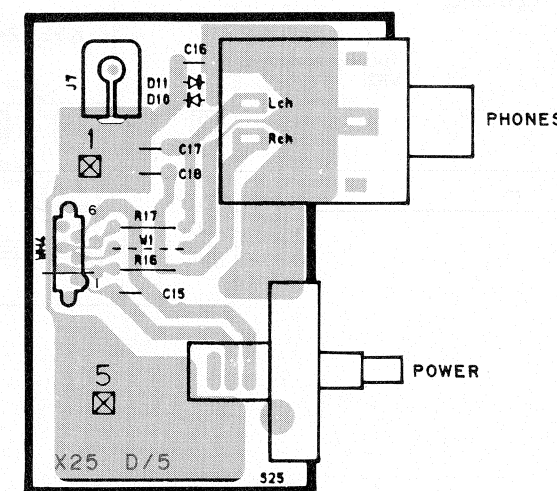
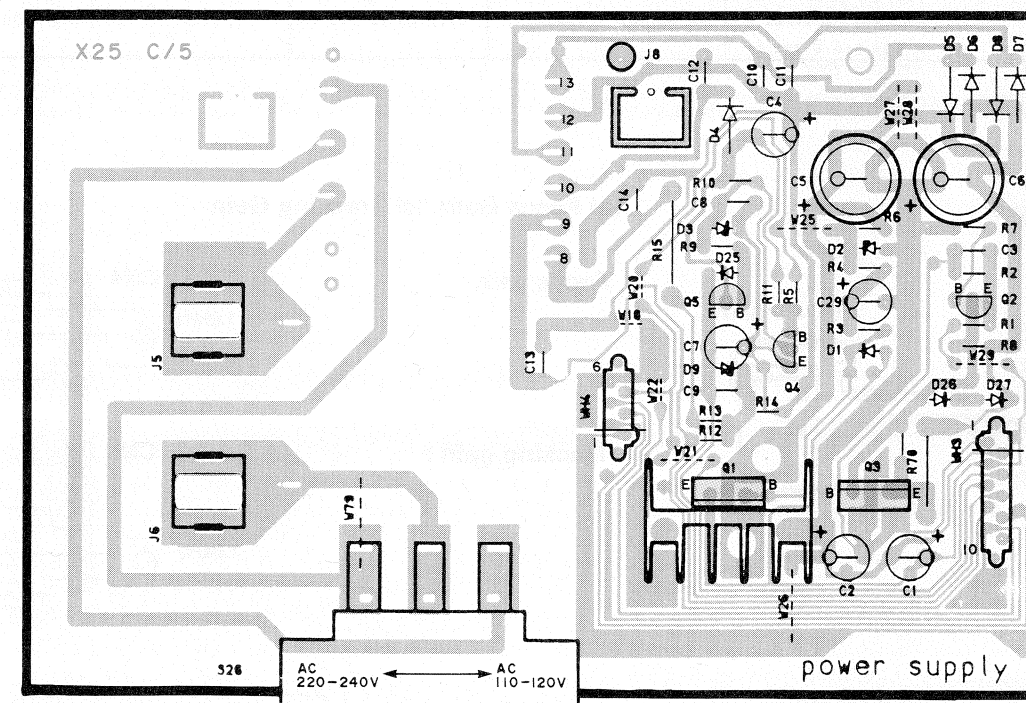
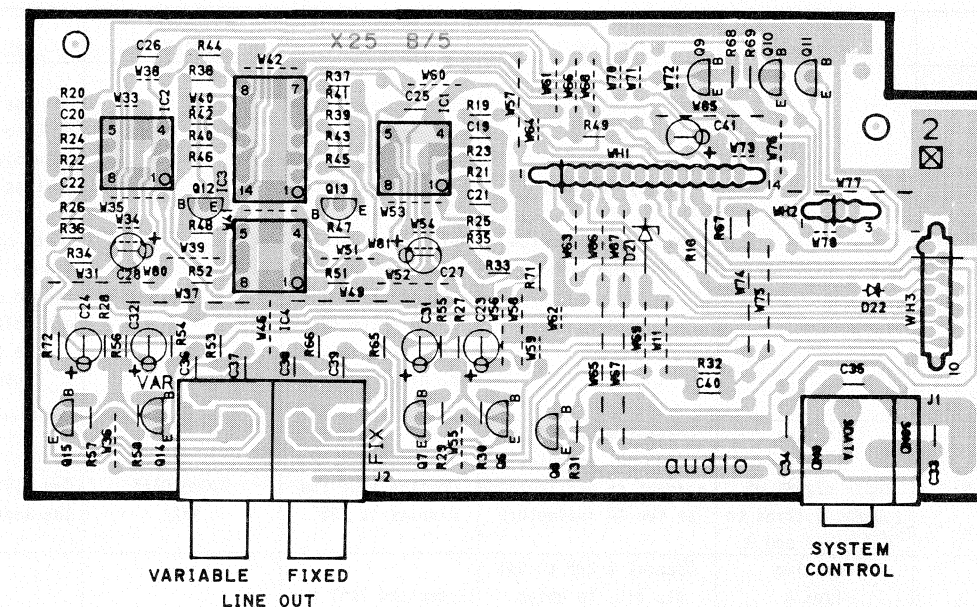
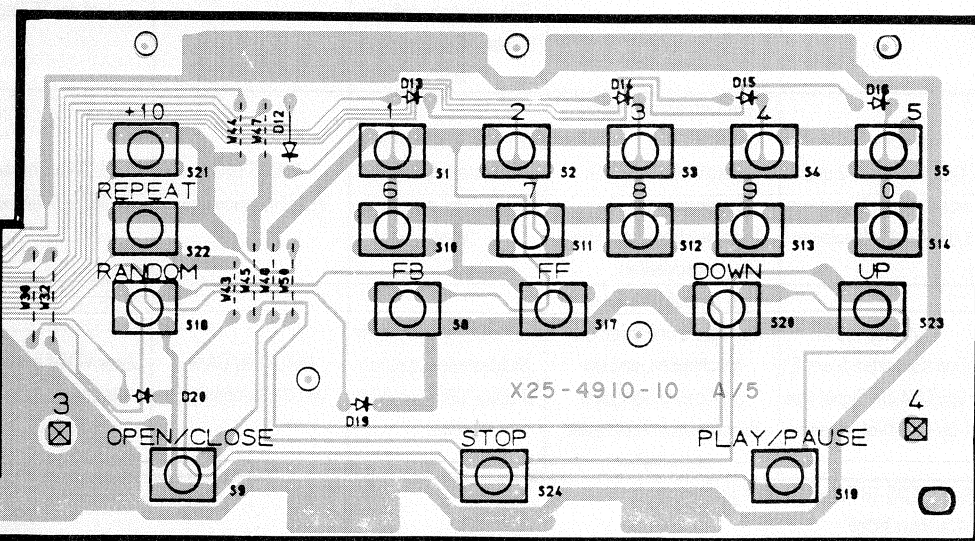
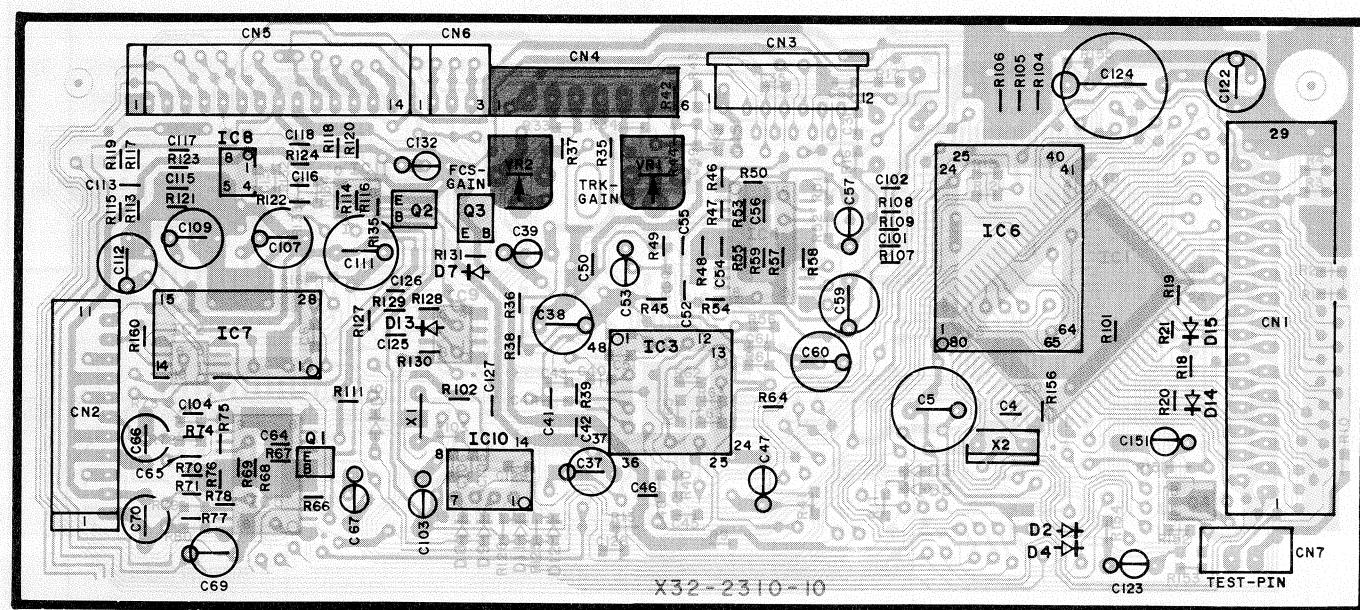
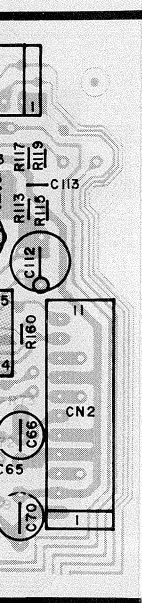
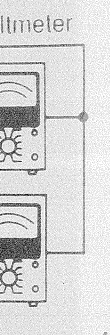
- RF signal in test mode (PLAY).

(b) Focus gain
: Two VTVMs should read the same value.

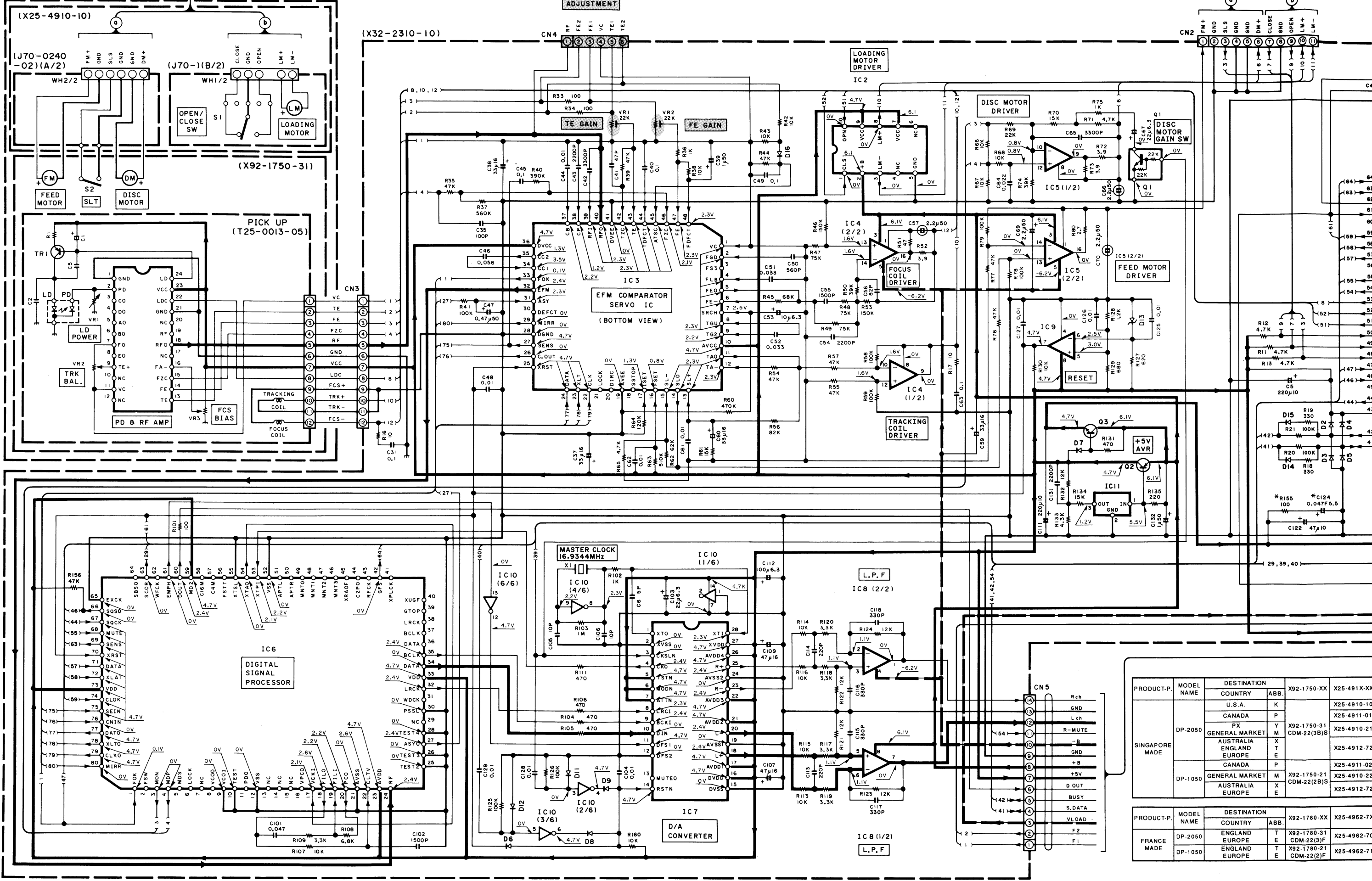


(c) Tracking gain
: Two VTVMs should read the same value.



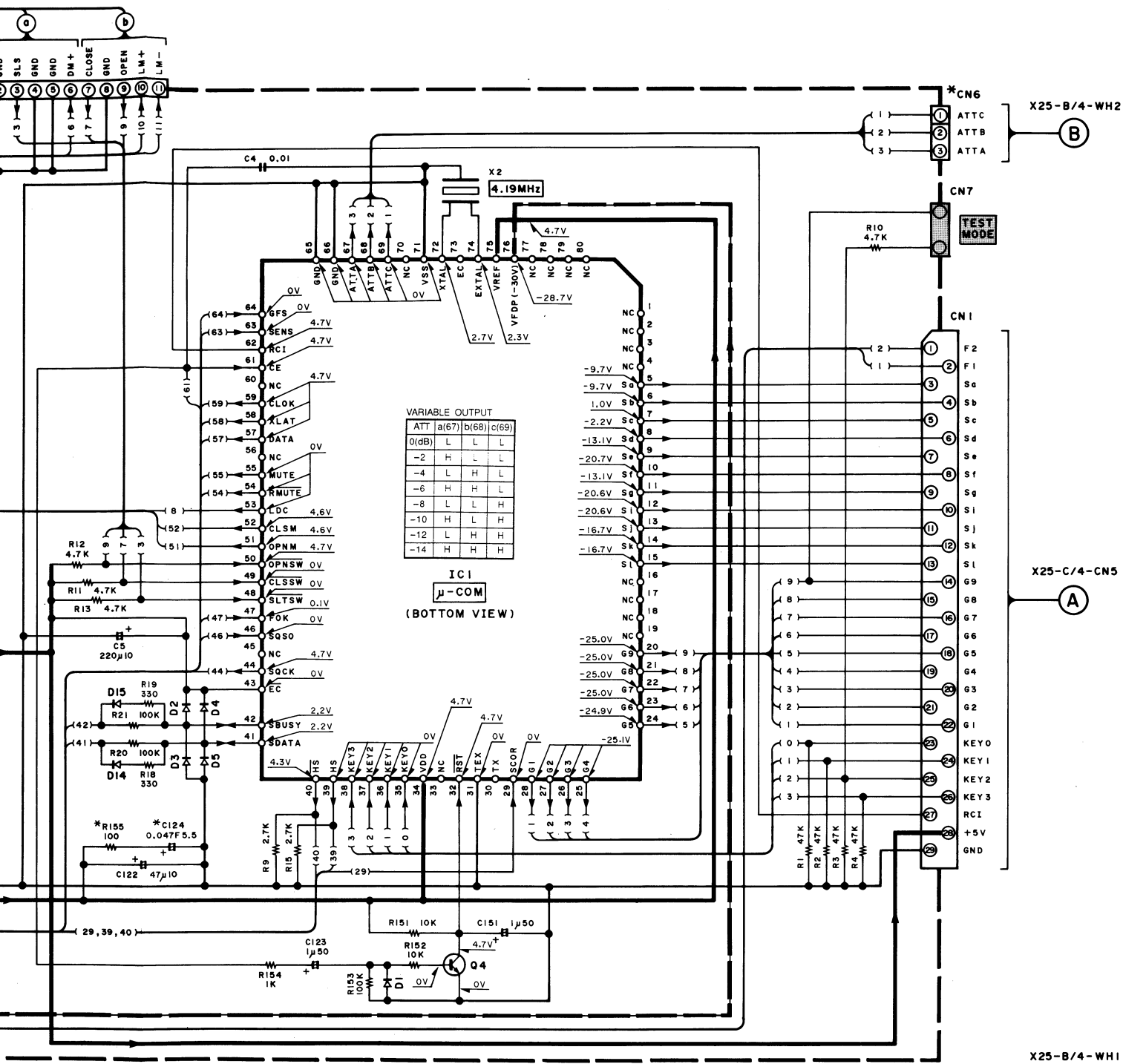


MECHA. ASS'Y (CDM-22(3B)S)



| PRODUCT-P. | MODEL NAME | DESTINATION | | X92-1750-XX | X25-491X-XX |
|----------------|------------|-------------------|------|-------------------------|-------------|
| | | COUNTRY | ABB. | | |
| SINGAPORE MADE | DP-2050 | U.S.A. | K | X25-4910-10 | |
| | | CANADA | P | X25-4911-01 | |
| | | PX GENERAL MARKET | Y | X92-1750-31 CDM-22(3B)S | X25-4910-21 |
| | DP-1050 | AUSTRALIA | X | X25-4912-72 | |
| | | ENGLAND | T | X25-4911-02 | |
| | | EUROPE | E | X25-4910-22 | |

| PRODUCT-P. | MODEL NAME | DESTINATION | | X92-1780-XX | X25-4962-7X |
|-------------|------------|-------------|------|------------------------|-------------|
| | | COUNTRY | ABB. | | |
| FRANCE MADE | DP-2050 | ENGLAND | T | X92-1780-31 CDM-22(3)F | X25-4962-70 |
| | | EUROPE | E | X25-4962-71 | |
| | DP-1050 | ENGLAND | T | X92-1780-21 CDM-22(2)F | X25-4962-71 |



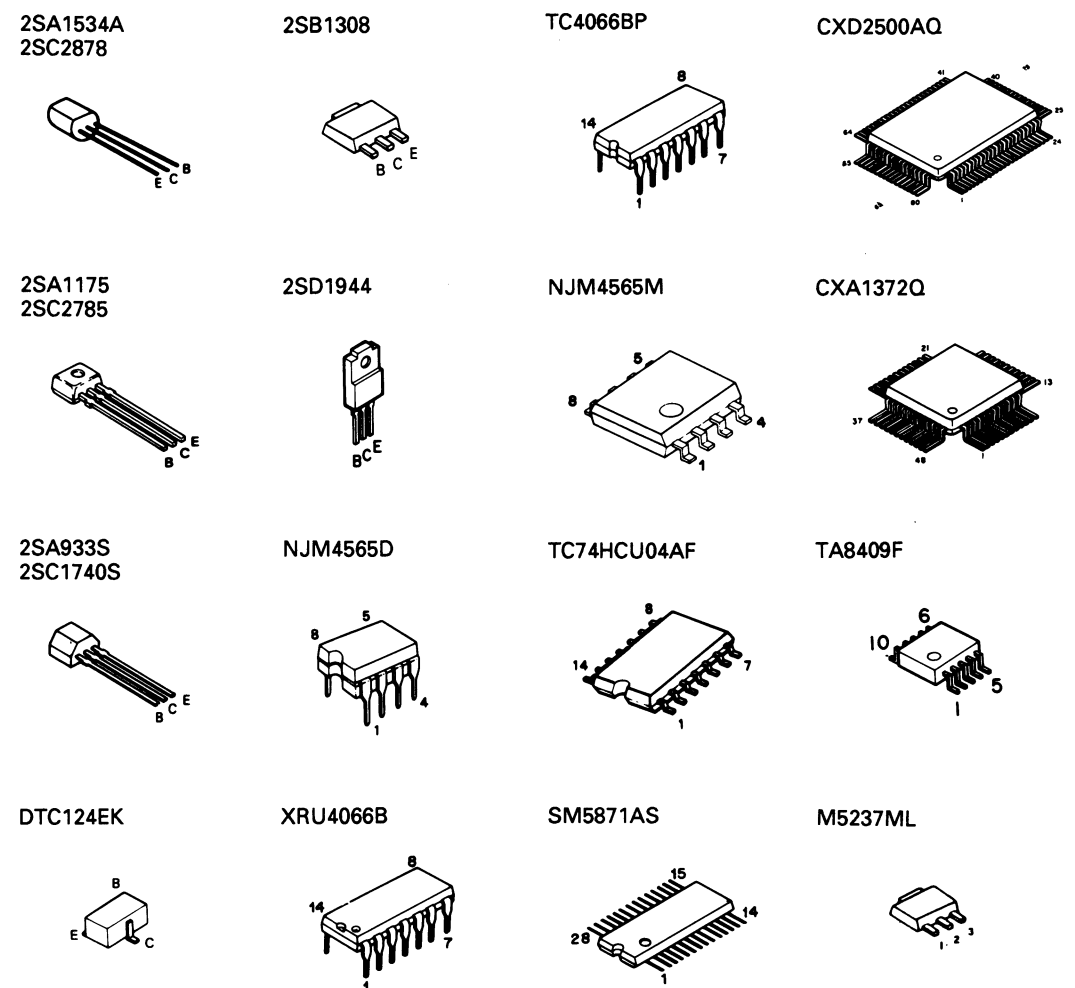
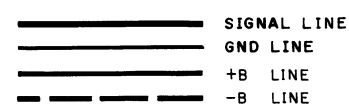
VARIABLE OUTPUT

| ATT | a(67) | b(68) | c(69) |
|-------|-------|-------|-------|
| 0(dB) | L | L | L |
| -2 | H | L | L |
| -4 | L | H | L |
| -6 | H | H | L |
| -8 | L | L | H |
| -10 | H | L | H |
| -12 | L | H | H |
| -14 | H | H | H |

| DESTINATION | COUNTRY | ABB. | X92-1750-XX | X25-491X-XX | X32-2310-XX | C124 | R155 | CN6 |
|----------------|---------|------|-------------|-------------|-------------|------|------|-----|
| U.S.A. | K | | | X25-4910-10 | | | | NO |
| CANADA | P | | | X25-4911-01 | | | | YES |
| PX | Y | | X92-1750-31 | X25-4910-21 | X32-2310-10 | YES | YES | YES |
| GENERAL MARKET | M | | CDM-22(3B)S | | | | | |
| AUSTRALIA | X | | | X25-4912-72 | | | | YES |
| ENGLAND | T | | | | | | | |
| EUROPE | E | | | | | | | |
| CANADA | P | | | X25-4911-02 | | | | |
| GENERAL MARKET | M | | X92-1750-21 | X25-4910-22 | X32-2310-11 | NO | NO | NO |
| AUSTRALIA | X | | CDM-22(2B)S | | | | | |
| EUROPE | E | | | X25-4912-72 | | | | |

| DESTINATION | COUNTRY | ABB. | X92-1780-XX | X25-4962-7X | X32-2360-XX | C124 | R155 | CN6 |
|-------------|---------|------|-------------|-------------|-------------|------|------|-----|
| ENGLAND | T | | X92-1780-31 | X25-4962-70 | X32-2310-10 | YES | YES | YES |
| EUROPE | E | | CDM-22(3)F | | | | | |
| ENGLAND | T | | X92-1780-21 | X25-4962-71 | X32-2360-11 | NO | NO | NO |
| EUROPE | E | | CDM-22(2)F | | | | | |

- IC1 : CXP50112-396Q
- IC2 : TA8409F
- IC3 : CXA1372Q
- IC4,5 : TA8406F
- IC6 : CXD2500AQ
- IC7 : SM5871AS
- IC8 : NJM4565M
- IC9 : XRA10393F
- IC10 : TC74HCU04AF
- IC11 : M5237ML
- Q1 : DTC124EK
- Q2 : 2SB1308(Q,R)
- Q3,4 : 2SD1963Q(R,S)
- D1-9,11,12,14-16 : MA110
- D13 : DTZ2.7(B) or MA8027-H



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

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.

DP-1050/2050
KENWOOD

Y22-2930-10

X32-CN1

(A)

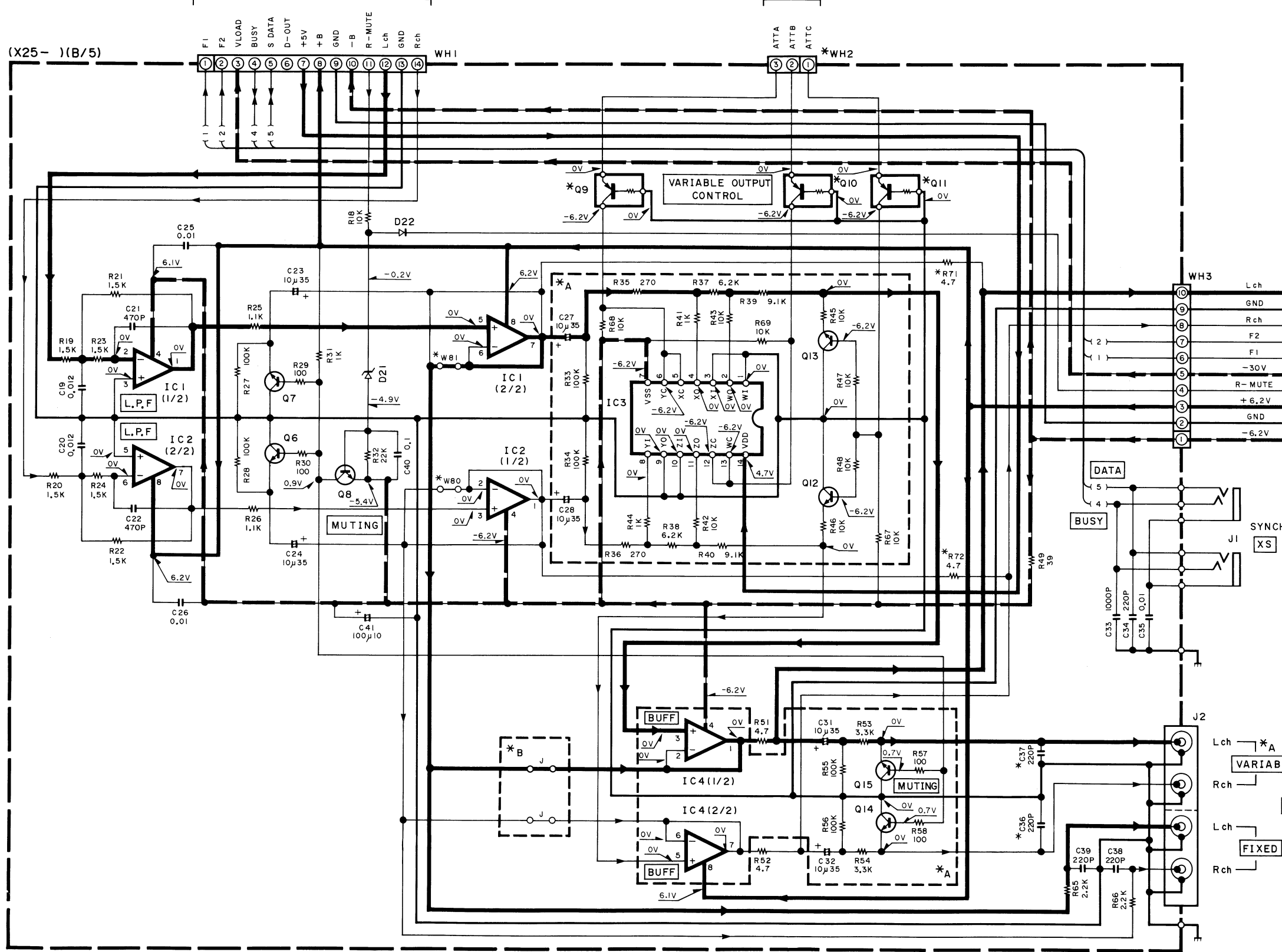
X32-CN6

(B)

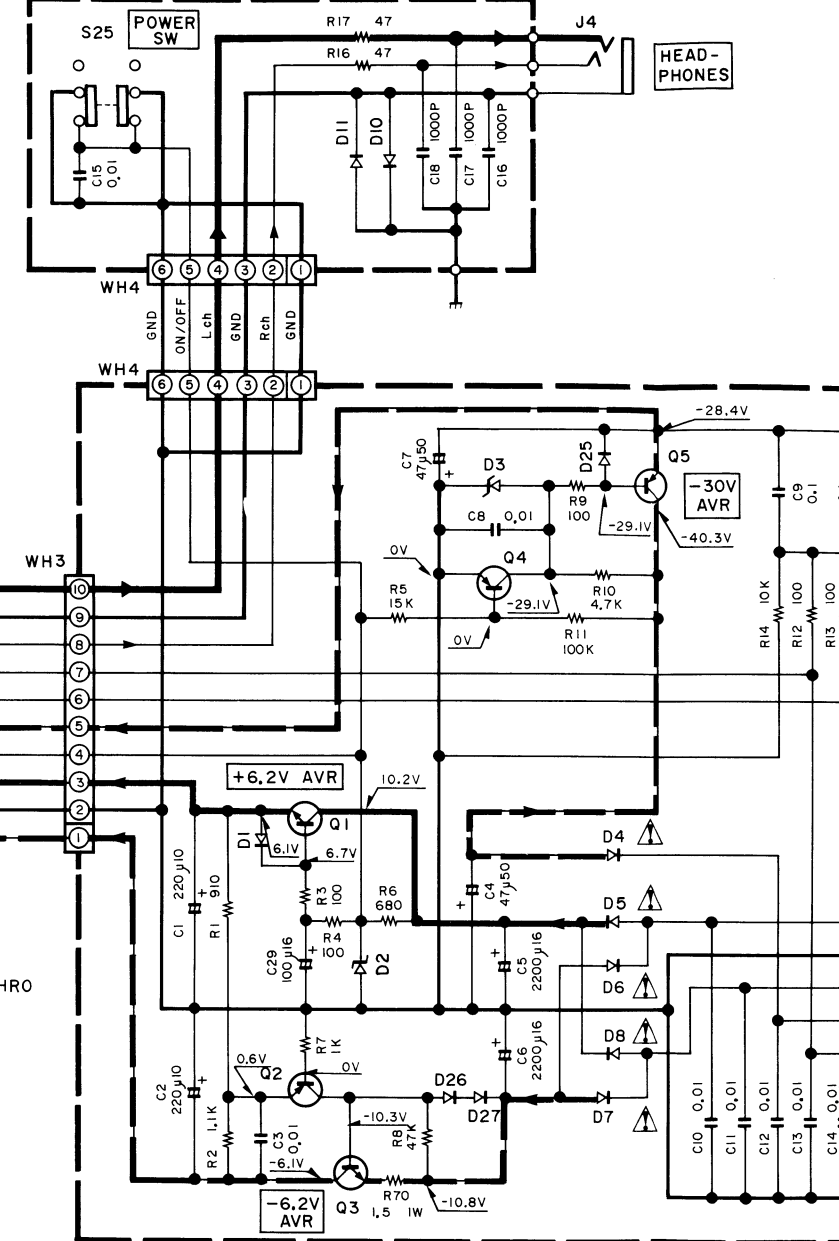
X32-CN5

(C)

(X25-)(B/5)

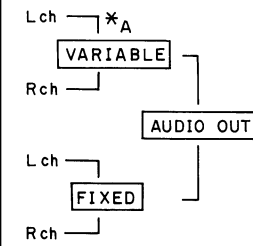


(X25-)(D/5)

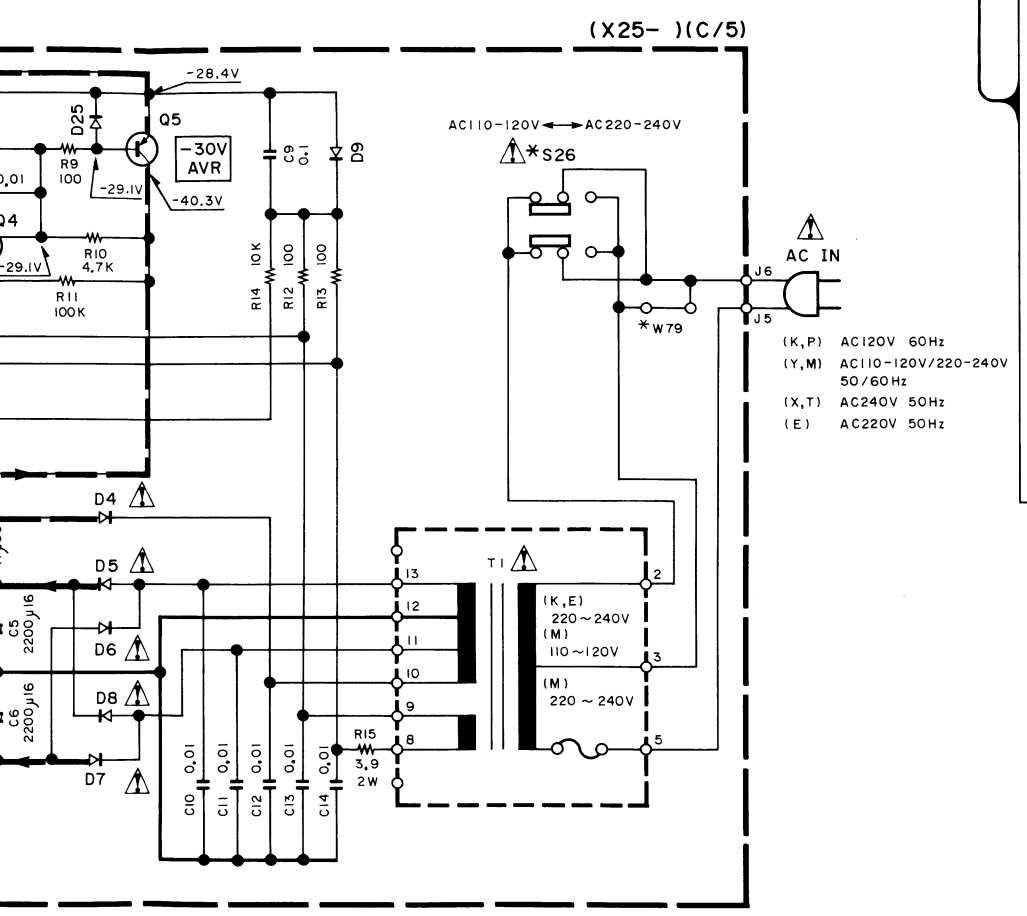
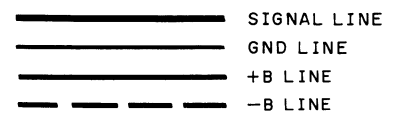


| PRODUCT-P. | MODEL NAME | DESTINATION | | X25-491X-XX | A | B |
|----------------|------------|----------------|-------|-------------|-----|-----|
| | | COUNTRY | ABB. | | | |
| SINGAPORE MADE | DP-2050 | U.S.A | K | X25-4910-10 | NO | YES |
| | | CANADA | P | X25-4911-01 | YES | NO |
| | | GENERAL MARKET | Y M | X25-4910-21 | YES | NO |
| | DP-1050 | AUSTRALIA | X T E | X25-4912-71 | YES | NO |
| | | GENERAL MARKET | M | X25-4910-22 | NO | YES |
| FRANCE MADE | DP-1050 | AUSTRALIA | X E | X25-4912-72 | NO | YES |

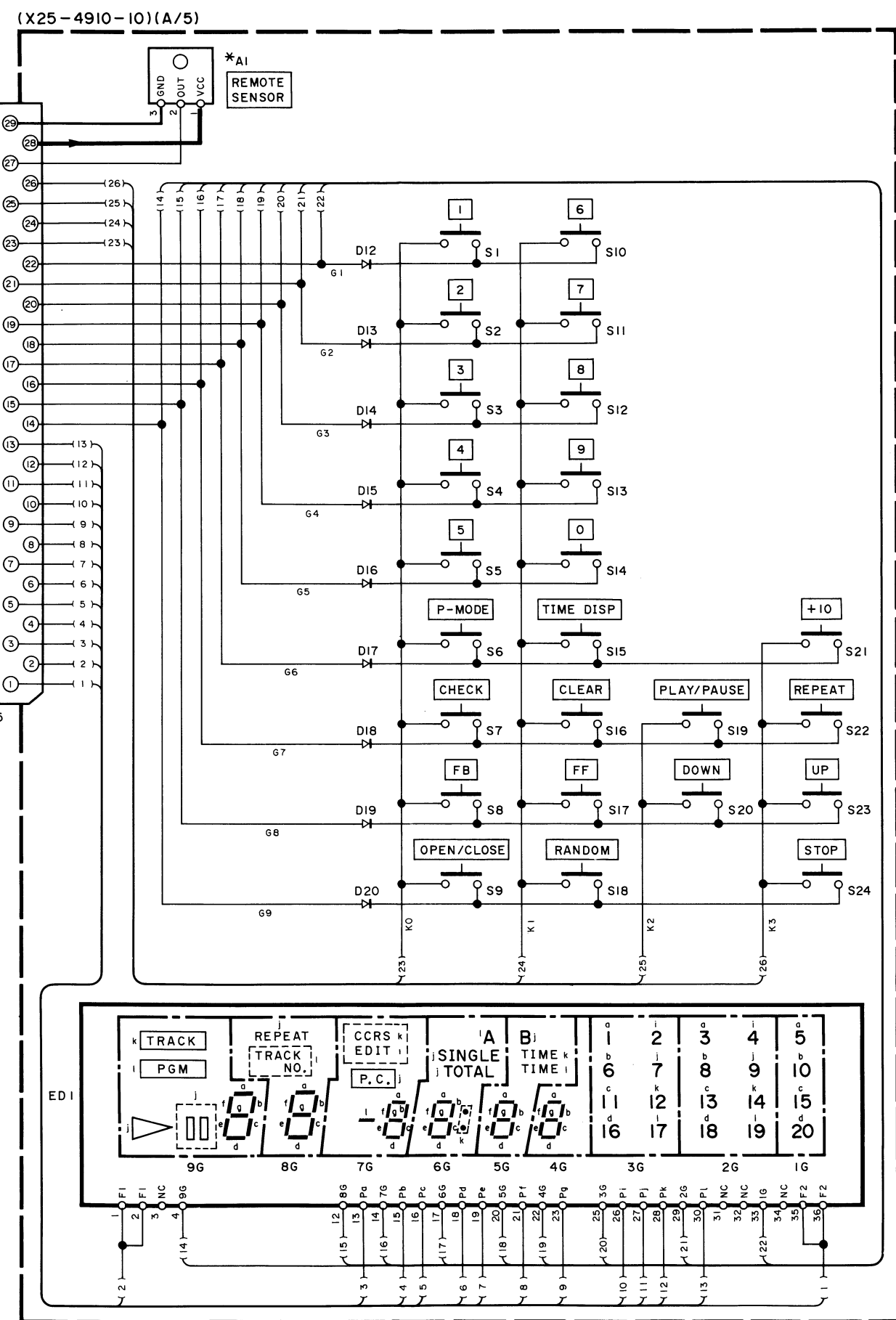
| PRODUCT-P. | MODEL NAME | DESTINATION | | X25-4962-7X | A | B |
|-------------|------------|-------------|------|-------------|-----|-----|
| | | COUNTRY | ABB. | | | |
| FRANCE MADE | DP-2050 | ENGLAND | T E | X25-4962-70 | YES | NO |
| | | ENGLAND | T E | X25-4962-71 | NO | YES |



- IC1,2,4 : NJM4565D
- IC3 : XRU4066B or TC4066BP
- Q1,3 : 2SD1944
- Q2,4 : 2SA1175(F,E) or 2SA933S(Q,R)
- Q5 : 2SA1534A(R,S)
- Q6,7,12-15 : 2SC2878(B)
- Q8 : 2SC2785(F,E) or 2SC1740S(Q,R)
- Q9-11 : DTA113ZS or UN4119
- D1,10-20,22,25-27 : HSS104 or 1SS133
- D2,9 : HZS6.8N(B2) or RD6.8ES(B2)
- D3 : HZS30N(B2) or RD30EN(B2)
- D4-8 : 1SR139-100 or S5688B
- D21 : HZS5.6N(B2) or RD5.6ES(B2)



- (K,P) AC120V 60Hz
- (Y,M) AC110-120V/220-240V 50/60Hz
- (X,T) AC240V 50Hz
- (E) AC220V 50Hz



| DESTINATION | COUNTRY | ABB. | X25-491X-XX | A | B | Q9-11 | R71-72 | WH2 | C36-37 | S26 | A1 | W79 | W80-81 |
|----------------|---------|-------------|-------------|-----|-----|-------|--------|-----|--------|-----|-----|-----|--------|
| U.S.A | K | X25-4910-10 | NO | YES | NO | NO | YES | NO | NO | NO | YES | YES | YES |
| CANADA | P | X25-4911-01 | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO |
| GENERAL MARKET | Y | X25-4910-21 | YES | NO | YES | NO | YES | YES | YES | YES | YES | NO | NO |
| AUSTRALIA | X | X25-4912-71 | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO |
| ENGLAND | T | | | | | | | | | | | | |
| EUROPE | E | | | | | | | | | | | | |
| CANADA | P | X25-4911-02 | NO | YES | NO | YES | NO | NO | NO | NO | NO | YES | YES |
| GENERAL MARKET | M | X25-4910-22 | NO | YES | NO | YES | NO | NO | YES | NO | NO | NO | YES |
| AUSTRALIA | X | X25-4912-72 | NO | YES | NO | YES | NO | NO | NO | NO | NO | YES | YES |
| EUROPE | E | | | | | | | | | | | | |

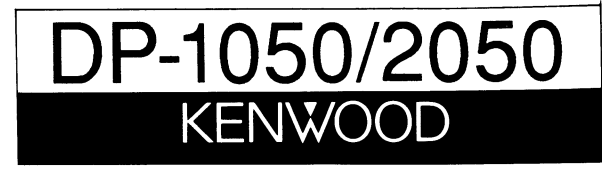
| DESTINATION | COUNTRY | ABB. | X25-4962-7X | A | B | Q9-11 | R71-72 | WH2 | C36-37 | S26 | A1 | W79 | W80-81 |
|-------------|---------|-------------|-------------|-----|-----|-------|--------|-----|--------|-----|-----|-----|--------|
| ENGLAND | T | X25-4962-70 | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO |
| EUROPE | E | | | | | | | | | | | | |
| ENGLAND | T | X25-4962-71 | NO | YES | NO | YES | NO | NO | NO | NO | NO | YES | YES |
| EUROPE | E | | | | | | | | | | | | |

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

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.

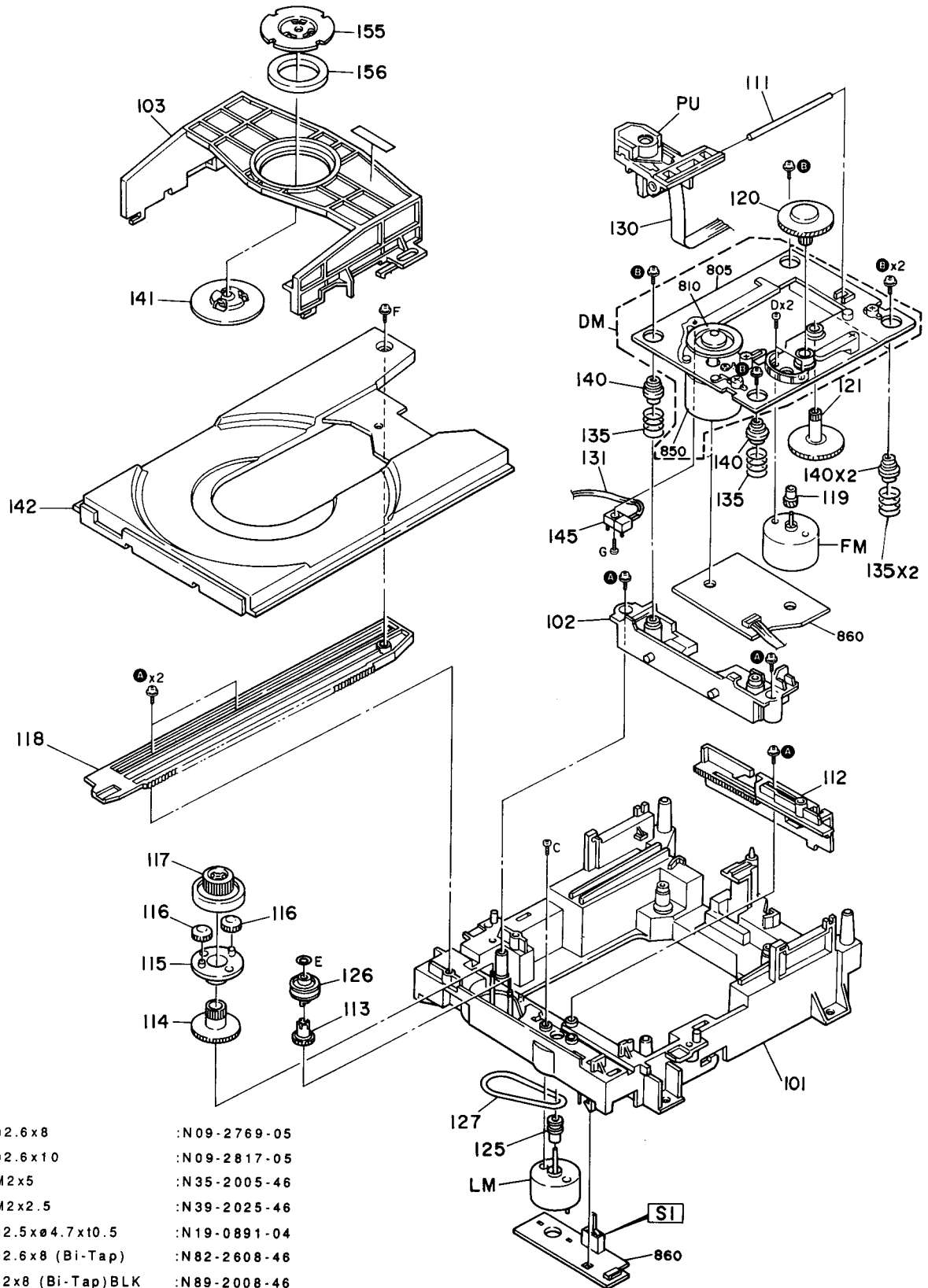
DP-2050(K) / DP-1050(E) (2/2)

Y22-2930-10



DP-1050/2050

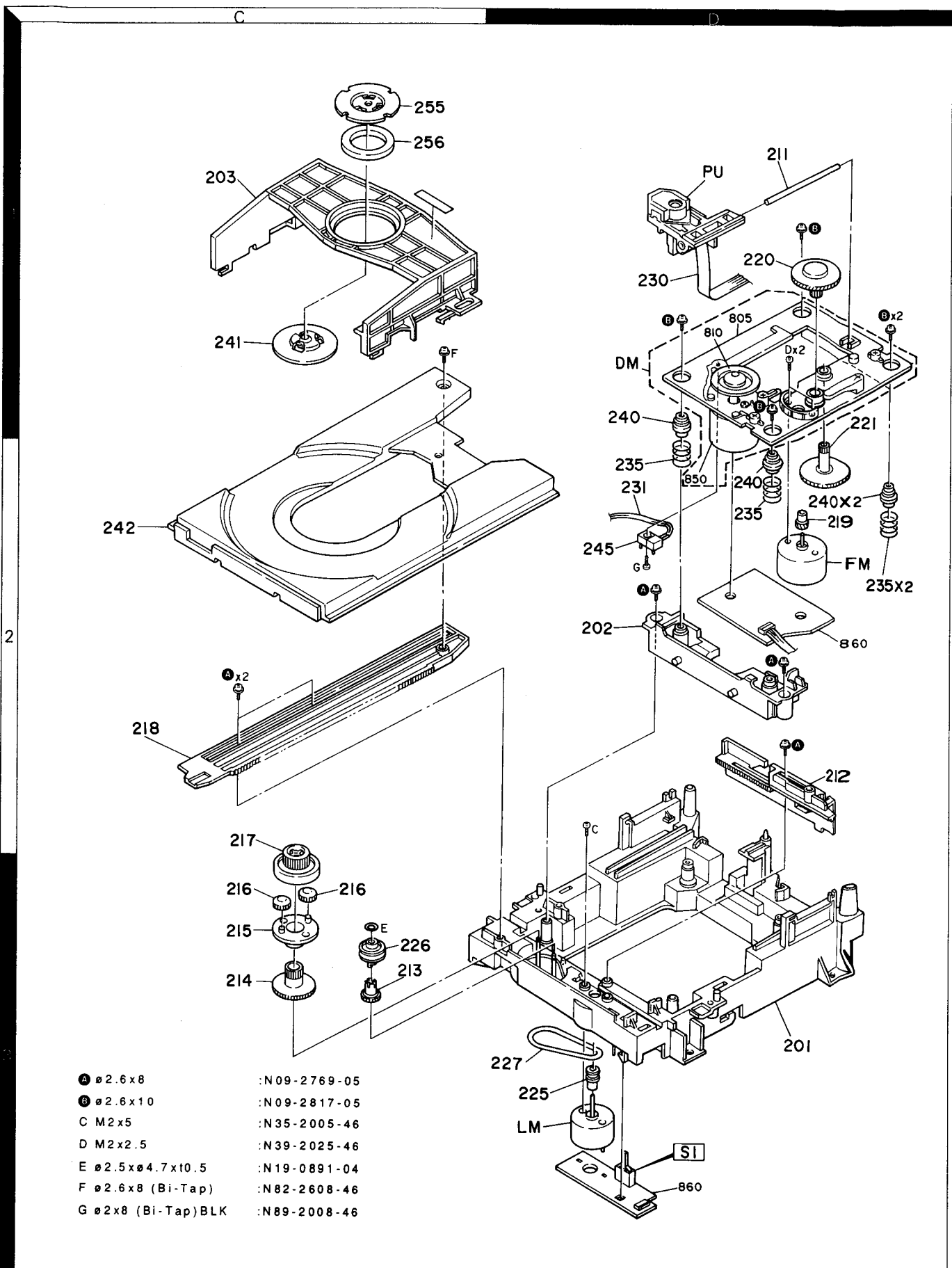
EXPLODED VIEW (MECHANISM) : SINGAPORE MADE



Parts with the exploded numbers larger than 700 are not supplied.

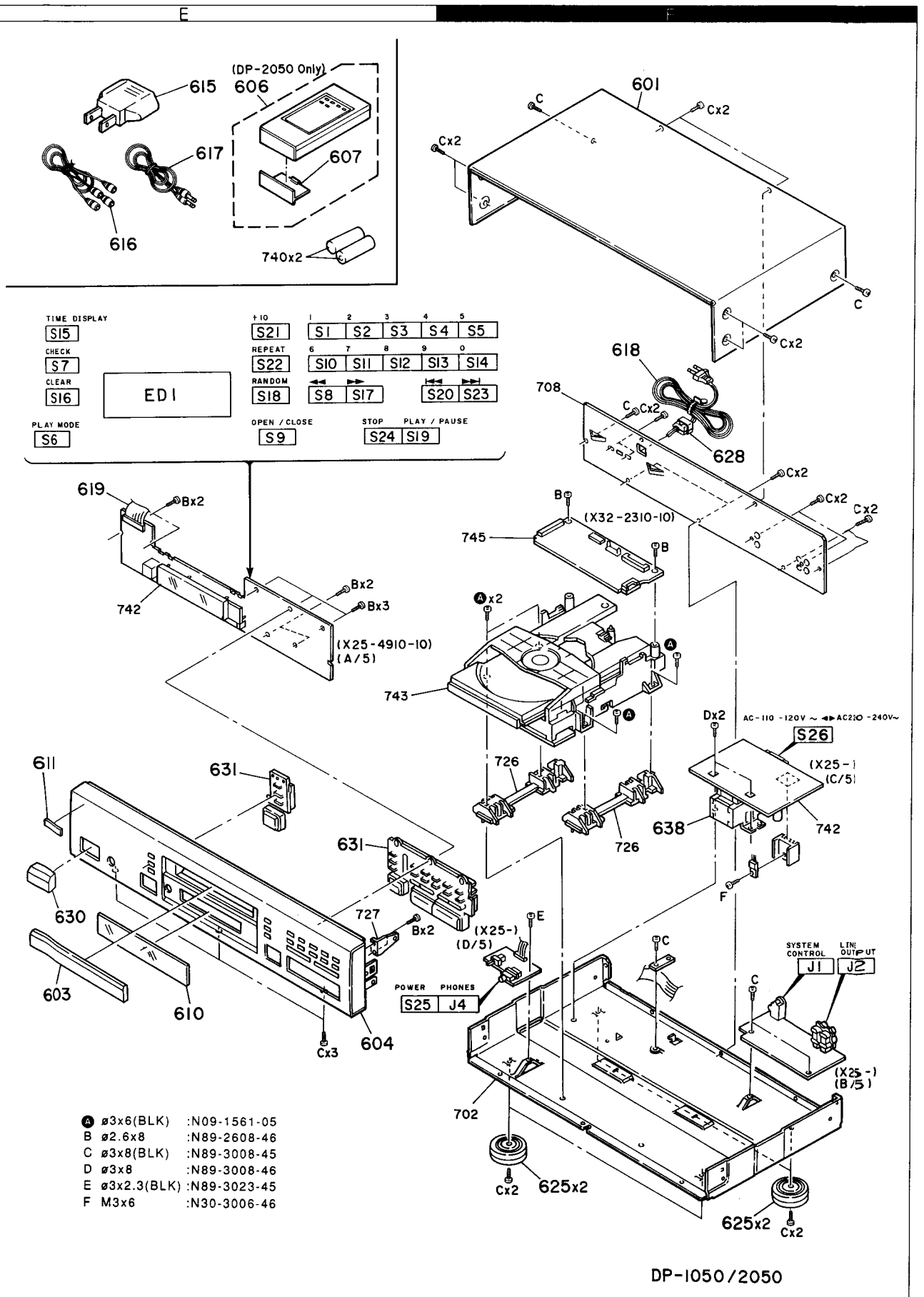
DP-1050/2050

EXPLODED VIEW (MECHANISM) : FRANCE MADE



DP-1050/2050

EXPLODED VIEW (UNIT)



- A \varnothing 3x6 (BLK) : N09-1561-05
- B \varnothing 2.6x8 : N89-2608-46
- C \varnothing 3x8 (BLK) : N89-3008-45
- D \varnothing 3x8 : N89-3008-46
- E \varnothing 3x2.3 (BLK) : N89-3023-45
- F M3x6 : N30-3006-46

Parts with the exploded numbers larger than 700 are not supplied.

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PARTS LIST

× 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.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|-------------------|-------------------|-------------------------------|------------------------|--------------------|
| DP-1050 | | | | | | |
| 601 | 1F | | A01-1890-01 | METALLIC CABINET | | |
| 603 | 3E | | A29-0314-03 | PANEL (TRAY) | | |
| 604 | 3E | * | A60-0289-01 | PANEL | | |
| 610 | 3E | | B10-1944-03 | FRONT GLASS | | |
| 611 | 2E | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0096-33 | WARRANTY CARD | X | |
| - | | | B46-0121-13 | WARRANTY CARD | P | |
| - | | | B46-0122-23 | WARRANTY CARD | E | |
| - | | | B46-0184-13 | WARRANTY CARD | T | F |
| - | | | B60-0887-00 | INSTRUCTION MANUAL(ENGLISH) | | |
| - | | | B60-0888-00 | INSTRUCTION MANUAL(FRENCH) | PE | |
| - | | | B60-0889-00 | INSTRUCTION MANUAL(CHINESE) | M | |
| - | | | B60-0890-00 | INSTRUCTION MANUAL(G/D/I) | E | |
| - | | | B60-0891-00 | INSTRUCTION MANUAL(SPANISH) | ME | |
| △ 615 | 1E | | E03-0115-05 | AC PLUG ADAPTER | M | |
| 616 | 1E | | E30-0505-05 | AUDIO CORD | | |
| 617 | 1E | | E30-1392-05 | CORD WITH PLUG | | |
| △ 618 | 1F | | E30-2274-15 | AC POWER CORD | P | |
| △ 618 | 1F | | E30-2275-15 | AC POWER CORD | X | |
| 618 | 1F | | E30-2276-15 | AC POWER CORD | T | F |
| △ 618 | 1F | | E30-2277-15 | AC POWER CORD | ME | |
| 619 | 2E | | E35-0384-05 | FLAT CABLE | | |
| - | | * | H10-5316-12 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H10-5317-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | * | H10-5344-12 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | | H10-5345-02 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | | H20-0554-04 | PROTECTION COVER | M | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | | H25-0330-04 | PROTECTION BAG | PXE | |
| - | | | H25-0651-04 | PROTECTION BAG (235X350X0.03) | T | F |
| - | | | H25-0658-04 | PROTECTION BAG | T | F |
| - | | * | H50-0386-04 | ITEM CARTON CASE | | F |
| - | | * | H50-0453-04 | ITEM CARTON CASE | PXE | |
| - | | * | H50-0454-04 | ITEM CARTON CASE | M | |
| △ 625 | 3F | | J02-1034-05 | FOOT | | |
| △ 628 | 2F | | J42-0083-05 | POWER CORD BUSHING | | |
| 630 | 3E | | K27-2080-04 | KNOB (BUTTON) | | |
| 631 | 2E | | K29-4418-12 | KNOB | | |
| △ 638 | 2F | | L07-0586-05 | POWER TRANSFORMER | P | |
| △ 638 | 2F | | L07-0587-05 | POWER TRANSFORMER | M | |
| △ 638 | 2F | | L07-0588-05 | POWER TRANSFORMER | XE | |
| DP-2050 | | | | | | |
| 601 | 1F | | A01-1890-01 | METALLIC CABINET | | |
| 603 | 3E | * | A29-0314-03 | PANEL (TRAY) | | |
| 604 | 3E | * | A60-0241-01 | PANEL | | |
| 606 | 1E | | A70-0529-05 | REMOTE CONTROLLER ASSY | PYM | |
| 606 | 1E | | A70-0532-05 | REMOTE CONTROLLER ASSY | XTE | |
| 607 | 1E | | A09-0110-08 | BATTERY COVER | | |
| 610 | 3E | * | B10-1944-03 | FRONT GLASS | | |

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|------------------------------------|---------------|-------------------|-------------------|-------------------------------|------------------------|--------------------|
| 611 | 2E | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0092-13 | WARRANTY CARD | K | |
| - | | | B46-0094-03 | WARRANTY CARD | Y | |
| - | | | B46-0095-03 | WARRANTY CARD | Y | |
| - | | | B46-0096-33 | WARRANTY CARD | X | |
| - | | | B46-0121-13 | WARRANTY CARD | P | |
| - | | | B46-0122-23 | WARRANTY CARD | E | |
| - | | | B46-0143-13 | WARRANTY CARD | T | |
| - | | | B46-0197-00 | QUESTIONAIRE CARD | K | |
| - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | |
| - | | * | B60-0887-00 | INSTRUCTION MANUAL (ENGLISH) | PE | |
| - | | * | B60-0888-00 | INSTRUCTION MANUAL (FRENCH) | M | |
| - | | * | B60-0889-00 | INSTRUCTION MANUAL (CHINESE) | E | |
| - | | * | B60-0890-00 | INSTRUCTION MANUAL (G/D/I) | ME | |
| - | | * | B60-0891-00 | INSTRUCTION MANUAL (SPANISH) | ME | |
| △ 615 | 1E | | E03-0115-05 | AC PLUG ADAPTER | M | |
| 616 | 1E | | E30-0505-05 | AUDIO CORD | | |
| 617 | 1E | | E30-1392-05 | CORD WITH PLUG | | |
| △ 618 | 1F | | E30-2274-15 | AC POWER CORD | KP | |
| △ 618 | 1F | | E30-2275-15 | AC POWER CORD | X | |
| △ 618 | 1F | | E30-2276-15 | AC POWER CORD | T | |
| △ 618 | 1F | | E30-2277-15 | AC POWER CORD | ME | |
| △ 618 | 1F | | E30-2284-15 | AC POWER CORD | Y | |
| 619 | 2E | | E35-0384-05 | FLAT CABLE | | |
| - | | * | H10-5316-12 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | * | H10-5317-02 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | * | H10-5344-12 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | * | H10-5345-02 | POLYSTYRENE FOAMED FIXTURE | | F |
| - | | | H20-0554-04 | PROTECTION COVER | M | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | KPYMXE | |
| - | | | H25-0330-04 | PROTECTION BAG | KPYXE | |
| - | | | H25-0651-04 | PROTECTION BAG | T | |
| - | | | H25-0658-04 | PROTECTION BAG | T | |
| - | | * | H50-0350-04 | ITEM CARTON CASE | KPYXTE | |
| - | | * | H50-0351-04 | ITEM CARTON CASE | M | |
| - | | * | H50-0385-04 | ITEM CARTON CASE | | F |
| △ 625 | 3F | | J02-1034-05 | FOOT | | |
| △ 628 | 2F | | J42-0083-05 | POWER CORD BUSHING | | |
| 630 | 3E | * | K27-2080-04 | KNOB (BUTTON) | | |
| 631 | 2E | * | K29-4418-12 | KNOB | | |
| △ 638 | 2F | * | L07-0586-05 | POWER TRANSFORMER | KP | |
| △ 638 | 2F | * | L07-0587-05 | POWER TRANSFORMER | YM | |
| △ 638 | 2F | * | L07-0588-05 | POWER TRANSFORMER | XTE | |
| MECHANISM PCB (X25-4840-21) | | | | | | |
| S1 | | | S33-2062-05 | LEVER SWITCH | | |
| OPERATION UNIT (X25-4910) | | | | | | |
| C1 | ,2 | | CE04LW1A221MCC | ELECTRO 220UF 10WV | | |
| C3 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C4 | | | CE04LW1H470MCC | ELECTRO 47UF 50WV | | |
| C5 | ,6 | | CE04LW1C222MCC | ELECTRO 2200UF 16WV | | |
| C7 | | | CE04LW1H470MCC | ELECTRO 47UF 50WV | | |
| C8 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |

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|------------------|---------------|-------------------|-------------------|---------------------------|------------------------|--------------------|
| C9 | | | CF92FV1H104J | MF 0.10UF J | | |
| C10 -15 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C16 -18 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C19 ,20 | | | CF92FV1H123J | MF 0.012UF J | | |
| C21 ,22 | | | CF92FV1H471J | MF 470PF J | | |
| C23 ,24 | | | CE04LW1V100MCC | ELECTRO 10UF 35WV | | |
| C25 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | K | |
| C25 ,26 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | PYMXTE | |
| C27 ,28 | | | CE04LW1V100MCC | ELECTRO 10UF 35WV | PYMXTE | |
| C29 | | | CE04LW1C101MCC | ELECTRO 100UF 16WV | | |
| C30 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C31 ,32 | | | CE04LW1V100MCC | ELECTRO 10UF 35WV | PYMXTE | |
| C33 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C34 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C35 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C36 -39 | | | CC45FSL1H221J | CERAMIC 220PF J | PYMXTE | |
| C38 ,39 | | | CC45FSL1H221J | CERAMIC 220PF J | K | |
| C40 | | | CF92FV1H104J | MF 0.10UF J | | |
| C41 | | | CE04LW1A101MCC | ELECTRO 100UF 10WV | | |
| J1 | 3F | | E11-0188-05 | MINIATURE PHONE JACK | | |
| J2 | 3F | | E13-2208-05 | PHONE JACK (2P) | K | 1 |
| J2 | 3F | | E63-0007-05 | PHONE JACK (4P) | PYMXTE | 2 |
| J4 | 3F | | E11-0208-05 | PHONE JACK | | |
| - | | | F01-1889-05 | HEAT SINK | | |
| - | | | J11-0098-05 | WIRE CLAMPER | | |
| - | | | J19-3392-04 | HOLDER | | |
| - | | | J21-5159-04 | MOUNTING HARDWARE | YMXT | |
| R15 | | | RS14KB3D3R9J | FL-PROOF RS 3.9 J 2W | | |
| R70 | | | RS14KB3A1R5J | FL-PROOF RS 1.5 J 1W | | |
| S1 -24 | | | S40-1064-05 | PUSH SWITCH | | |
| S25 | 3E | | S40-2370-05 | PUSH SWITCH (POWER) | | |
| △ S26 | 2F | | S31-2131-05 | SLIDE SWITCH (POWER VOLT) | YM | |
| D1 | | | HSS104 | DIODE | | |
| D1 | | | 1SS133 | DIODE | | |
| D2 | | | HZS6.8N(B2) | ZENER DIODE | | |
| D2 | | | RD6.8ES(B2) | ZENER DIODE | | |
| D3 | | | HZS30N(B2) | ZENER DIODE | | |
| △ D3 | | | RD30ES(B2) | ZENER DIODE | | |
| △ D4 -8 | | | S5688B | DIODE | | |
| △ D4 -8 | | | 1SR139-100 | DIODE | | |
| D9 | | | HZS6.8N(B2) | ZENER DIODE | | |
| D9 | | | RD6.8ES(B2) | ZENER DIODE | | |
| D10 -20 | | | HSS104 | DIODE | | |
| D10 -20 | | | 1SS133 | DIODE | | |
| D21 | | | HZS5.6N(B2) | ZENER DIODE | | |
| D21 | | | RD5.6ES(B2) | ZENER DIODE | | |
| D22 | | | HSS104 | DIODE | | |
| D22 | | | 1SS133 | DIODE | | |
| D25 -27 | | | HSS104 | DIODE | | |
| D25 -27 | | | 1SS133 | DIODE | | |
| ED1 | | | FIP9KM5 | INDICATOR TUBE | | |
| IC1 ,2 | | | NJM4565D | IC(OP AMP X2) | | |

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|--|---------------|-------------------|-------------------|-------------------------|-------------------------|--------------------|
| IC3 | | | TC4066BP | IC(ANALOG/ DIGITAL SW) | PYMXTE | 2 |
| IC3 | | | XRU4066B | IC(ANALOG SWITCH) | PYMXTE | 2 |
| IC4 | | | NJM4565D | IC(OP AMP X2) | PYMXTE | 2 |
| Q1 | | | 2SD1944 | TRANSISTOR | | |
| Q2 | | | 2SA1175(F,E) | TRANSISTOR | | |
| Q2 | | | 2SA933S(Q,R) | TRANSISTOR | | |
| Q3 | | | 2SD1944 | TRANSISTOR | | |
| Q4 | | | 2SA1175(F,E) | TRANSISTOR | | |
| Q4 | | | 2SA933S(Q,R) | TRANSISTOR | | |
| Q5 | | | 2SA1534A(R,S) | TRANSISTOR | | |
| Q6 ,7 | | | 2SC2878(B) | TRANSISTOR | | |
| Q8 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q8 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q9 -11 | | | DTA113ZS | DIGITAL TRANSISTOR | PYMXTE | 2 |
| Q9 -11 | | | UN4119 | TRANSISTOR | PYMXTE | 2 |
| Q12 -15 | | | 2SC2878(B) | TRANSISTOR | PYMXTE | 2 |
| A1 | | | W02-1046-05 | ELECTRIC CIRCUIT MODULE | | 2 |
| PROCESSOR UNIT (X32-2310-10, X32-2360-10) | | | | | | |
| C4 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C5 | | | C90-3223-05 | ELECTRO 220UF 10WV | | |
| C6 | | | CC73FSL1H050J | CHIP C 5.0PF J | | |
| C31 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C35 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C37 ,38 | | | C90-3227-05 | ELECTRO 33UF 16WV | | |
| C39 | | | C90-3253-05 | ELECTRO 1UF 50WV | | |
| C40 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C41 | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C42 | | | CK73FB1H332K | CHIP C 3300PF K | | |
| C43 | | | CK73FB1H222K | CHIP C 2200PF K | | |
| C44 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C45 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C46 | | | CK73FB1E563K | CHIP C 0.056UF K | | |
| C47 | | | C90-3251-05 | ELECTRO 0.47UF 50WV | | |
| C48 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C49 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C50 | | | CK73FB1H561K | CHIP C 560PF K | | |
| C51 ,52 | | | CK73FB1H333K | CHIP C 0.033UF K | | |
| C53 | | | C90-3209-05 | ELECTRO 10UF 6.3WV | | |
| C54 | | | CK73FB1H222K | CHIP C 2200PF K | | |
| C55 | | | CK73FB1H152K | CHIP C 1500PF K | | |
| C56 | | | CC73FSL1H820J | CHIP C 82PF J | | |
| C57 | | | C90-3254-05 | ELECTRO 2.2UF 50WV | | |
| C59 ,60 | | | C90-3227-05 | ELECTRO 33UF 16WV | | |
| C61 ,62 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C63 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C64 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C65 | | | CK73FB1H332K | CHIP C 3300PF K | | |
| C66 | | * | C90-3472-05 | ELECTRO 2.2UF 50WV | | |
| C67 | | | C90-3210-05 | ELECTRO 22UF 6.3WV | | |
| C69 | | | C90-3254-05 | ELECTRO 2.2UF 50WV | | |
| C70 | | * | C90-3472-05 | ELECTRO 2.2UF 50WV | | |
| C101 | | | CK73FB1H473K | CHIP C 0.047UF K | | |
| C102 | | | CK73FB1H152K | CHIP C 1500PF K | | |

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|--|---------------|-------------------|-------------------|--------------------------------|------------------------|--------------------|
| C103 | | | C90-3210-05 | ELECTRO 22UF 6.3WV | | |
| C104 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C105, 106 | | | CC73FSL1H100J | CHIP C 10PF J | | |
| C107-109 | | | C90-3228-05 | ELECTRO 47UF 16WV | | |
| C111 | | | C90-3223-05 | ELECTRO 220UF 10WV | | |
| C112 | | | C90-3214-05 | ELECTRO 100UF 6.3WV | | |
| C113, 114 | | | CK73FB1H221K | CHIP C 220PF K | | |
| C115-118 | | | CC73FCH1H331J | CHIP C 330PF J | | |
| C122 | | | C90-3220-05 | ELECTRO 47UF 10WV | | |
| C123 | | | C90-3253-05 | ELECTRO 1UF 50WV | | |
| C124 | | | C90-1827-05 | BACKUP 0.047F 5.5WV | | |
| C125-127 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C128, 129 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C131 | | | CK73FB1H222K | CHIP C 2200PF K | | |
| C132 | | | C90-3253-05 | ELECTRO 1UF 50WV | | |
| C151 | | | C90-3253-05 | ELECTRO 1UF 50WV | | |
| CN1 | | | E40-4209-05 | FLAT CABLE CONNCTOR | | |
| CN3 | | | E40-4631-05 | FLAT CABLE CONNCTOR | | |
| X1 | | | L77-2109-05 | CRYSTAL RESONATOR (16.9344MHZ) | | |
| X2 | | | L78-0267-05 | RESONATOR (4.19MHZ) | | |
| VR1 , 2 | | | R12-3686-05 | TRIMMING POT.(22K) | | |
| D1 -9 | | | MA110 | DIODE | | |
| D11 , 12 | | | MA110 | DIODE | | |
| D13 | | | DTZ2.7(B) | ZENER DIODE | | |
| D13 | | * | MA8027-H | ZENER DIODE | | |
| D14 -16 | | | MA110 | DIODE | | |
| IC1 | | * | CXP50112-396Q | IC | | |
| IC2 | | | TA8409F | IC(MOTOR DRIVER) | | |
| IC3 | | | CXA1372Q | IC(CD RF SERVØ) | | |
| IC4 , 5 | | | TA8406F | IC | | |
| IC6 | | | CXD2500AQ | IC(SIGNAL PROCESSOR) | | |
| IC7 | | | SM5871AS | IC(D/A CONVERTER) | | |
| IC8 | | | NJM4565M | IC(OP AMP) | | |
| IC9 | | | XRA10393F | IC | | |
| IC10 | | | TC74HCU04AF | IC(HEX INVERTER SMD) | | |
| IC11 | | | M5237ML | IC(VOLTAGE REGULATOR) | | |
| Q1 | | | DTC124EK | DIGITAL TRANSISTOR | | |
| Q2 | | | 2SB1308(Q, R) | TRANSISTOR | | |
| Q3 , 4 | | | 2SD1963Q(R, S) | TRANSISTOR | | |
| MECHANISM ASSY : SINGAPORE MADE (X92-1750-XX) | | | | | | |
| 101 | 3B | * | A10-2974-01 | CHASSIS (MAIN) | | |
| 102 | 2B | | A11-0756-03 | SUB CHASSIS (FRAME) | | |
| 103 | 1A | | A11-0757-02 | SUB CHASSIS (CLAMPER) | | |
| 111 | 1B | | D10-2490-04 | ROD | | |
| 112 | 2B | | D10-3253-03 | SLIDER | | |
| 113 | 3A | | D13-0975-04 | GEAR (INTERMEDIATE) | | |
| 114 | 3A | | D13-0976-03 | GEAR (CENTER) | | |
| 115 | 3A | | D13-0977-03 | GEAR (CARRIER) | | |
| 116 | 3A | | D13-0978-03 | GEAR (IDLER) | | |
| 117 | 2A | | D13-0979-03 | GEAR | | |
| 118 | 2A | | D13-0980-02 | LACK (GEAR) | | |
| 119 | 2B | | D13-0894-05 | GEAR (MOTOR) | | |

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| 120 | 1B | | D13-0895-05 | GEAR (INTERMEDIATE) | | |
| 121 | 1B | | D13-0896-05 | GEAR (FEED) | | |
| 125 | 3B | | D15-0328-04 | MOTOR PULLEY | | |
| 126 | 3A | | D15-0329-03 | PULLEY | | |
| 127 | 3B | * | D16-0333-03 | BELT | | |
| 130 | 1B | | E35-0296-05 | FLAT CABLE | | |
| 131 | 2B | | E35-0420-05 | LEAD WIRE | | |
| 135 | 2B | | G01-3326-14 | COMPRESSION SPRING | | |
| 140 | 1B, 2B | | J02-1058-15 | INSULATOR | | |
| 141 | 1A | | J11-0180-03 | CLAMPER | | |
| 142 | 2A | * | J99-0514-01 | TRAY | | |
| 145 | | | S33-1022-05 | LEVER SWITCH | | |
| 155 | 1A | | T50-1058-04 | YÖKE | | |
| 156 | 1A | | T99-0503-15 | MAGNET | | |
| DM | 1D | | A11-0733-05 | SUB CHASSIS ASSY (DISK MOTOR) | | |
| FM | 2D | | T42-0532-05 | DC MOTOR (FEED MOTOR) | | |
| LM | 3D | | T42-0609-05 | DC MOTOR (LOADING MOTOR) | | |
| PU | 1D | | T25-0022-05 | OPTICAL PICKUP HEAD | | |
| MECHANISM ASSY : FRANCE MADE (X92-1780-XX) | | | | | | |
| 201 | 3D | * | A10-2978-01 | CHASSIS (MAIN) | | |
| 202 | 2D | * | A11-0758-03 | SUB CHASSIS (FRAME) | | |
| 203 | 1C | * | A11-0760-02 | SUB CHASSIS (CLAMPER) | | |
| 211 | 1D | | D10-2490-04 | ROD | | |
| 212 | 2D | | D10-3253-03 | SLIDER | | |
| 213 | 3C | | D13-0975-04 | GEAR (INTERMEDIATE) | | |
| 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 | | E35-0296-05 | FLAT CABLE | | |
| 231 | 2D | | E35-0420-05 | LEAD WIRE | | |
| 235 | 2D | * | G01-3465-04 | COMPRESSION SPRING | | |
| 240 | 1D, 2D | | J02-1058-15 | INSULATOR | | |
| 241 | 1C | | J11-0180-03 | CLAMPER | | |
| 242 | 2C | * | J99-0515-01 | TRAY | | |
| 245 | | | S33-1022-05 | LEVER SWITCH | | |
| 255 | 1C | | T50-1058-04 | YÖKE | | |
| 256 | 1C | | T99-0503-15 | MAGNET | | |
| DM | 1D | | A11-0733-05 | SUB CHASSIS ASSY (DISK MOTOR) | | |
| FM | 2D | | T42-0532-05 | DC MOTOR (FEED) | | |
| LM | 3D | | T42-0609-05 | DC MOTOR (LOADING) | | |
| PU | 1D | * | T25-0024-05 | OPTICAL PICKUP HEAD | | |

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)


T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

 indicates safety critical components.

