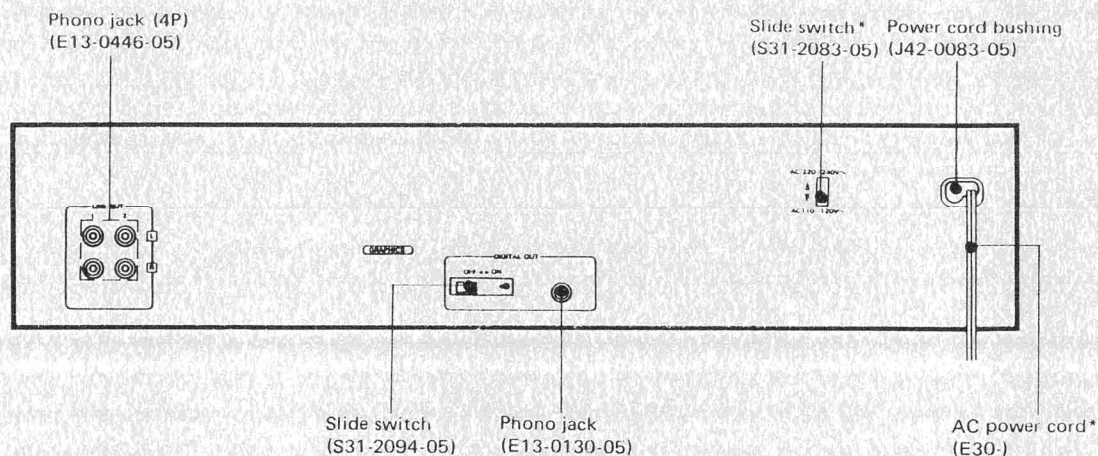
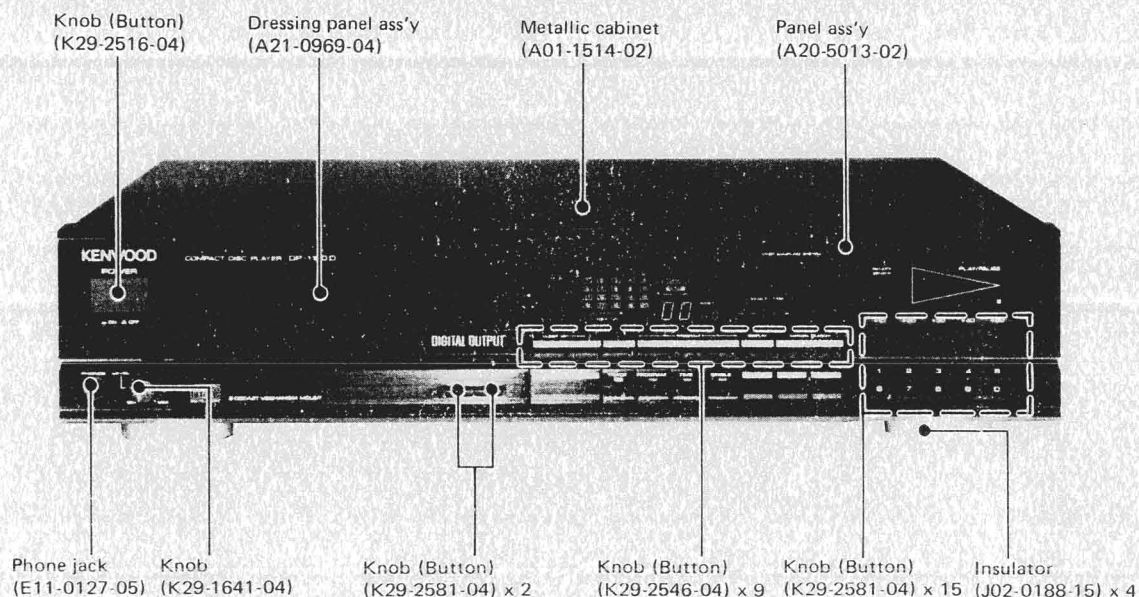


COMPACT DISC PLAYER
DP-1100D
 SERVICE MANUAL

KENWOOD

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 B51-3140-00 (O) 2347



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

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DANGER: Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.

* Refer to the parts list on page 39.

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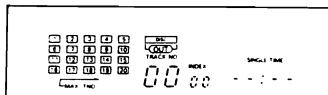
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TRANSPORTATION SCREW

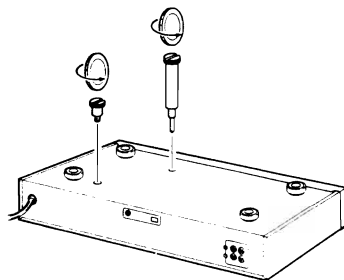
Before operation, remove the two red screws attached to the bottom of the unit used during transport from the factory. Remove both screws using a coin, etc. and, when the unit is to be transported again, be sure replace the two screws to their original position.

ATTACHING THE TRANSPORTATION SCREWS

1. Turn the power ON without loading disc.
2. Turn OFF the power after the display shows the following indication.



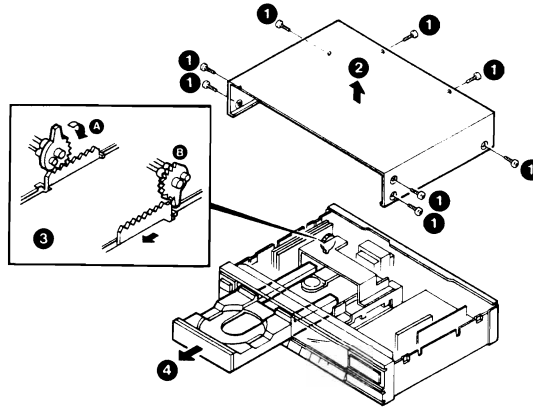
3. Install the transportation screws.



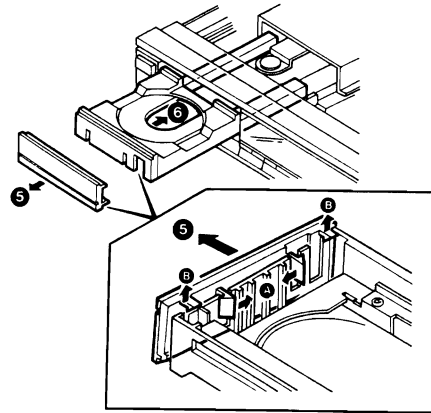
DP-1100D DP-1100D

DISASSEMBLY FOR REPAIR

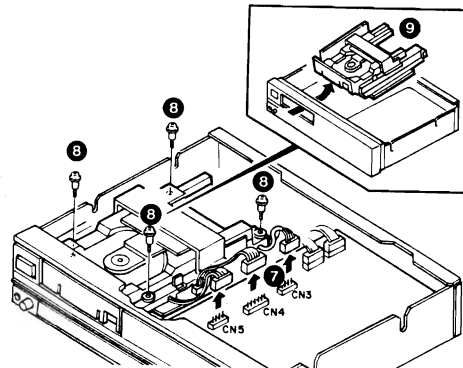
1. Remove eight screws **1** retaining the case and remove the case (**2**).
2. Move the gear on the left side of the Mechanism ass'y with your finger (**3**) and pull the tray toward the front (**4**).



3. Pull up the four claws on the tray panel in the direction of the arrows and remove the tray panel by pulling it out in the direction **5**.
4. Push the tray back (**6**).

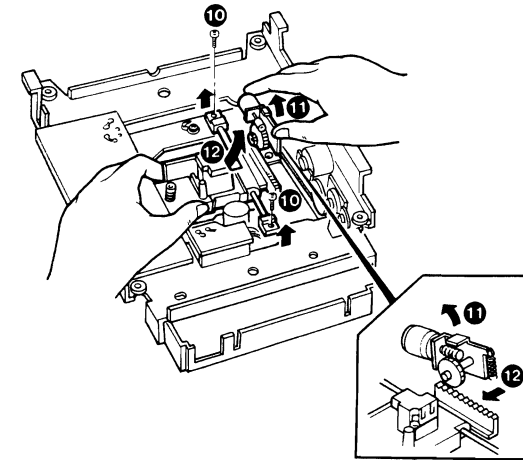


5. Disconnect three connectors (CN3, CN4, CN5) from the CD Player unit (X32-1100-11) (**7**).
6. Remove four screws **8** retaining the Mechanism ass'y and remove the Mechanism ass'y by pulling it slightly backward then upward (**9**).

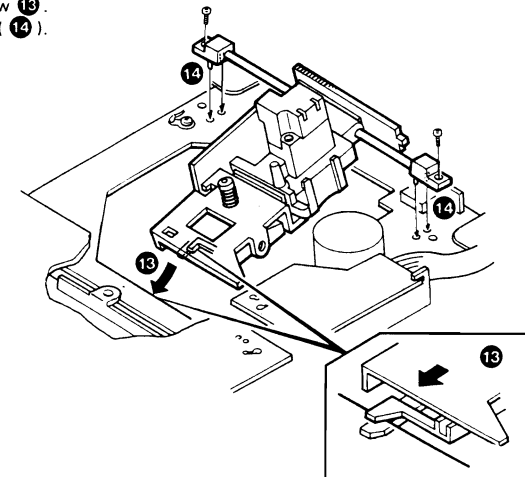


DISASSEMBLY FOR REPAIR

7. Turn the Mechanism ass'y upside down, remove two screws **10** fixing the rod and, while lifting the motor block diagonally upward (**11**), pull the pickup in the direction of the arrow (**12**).

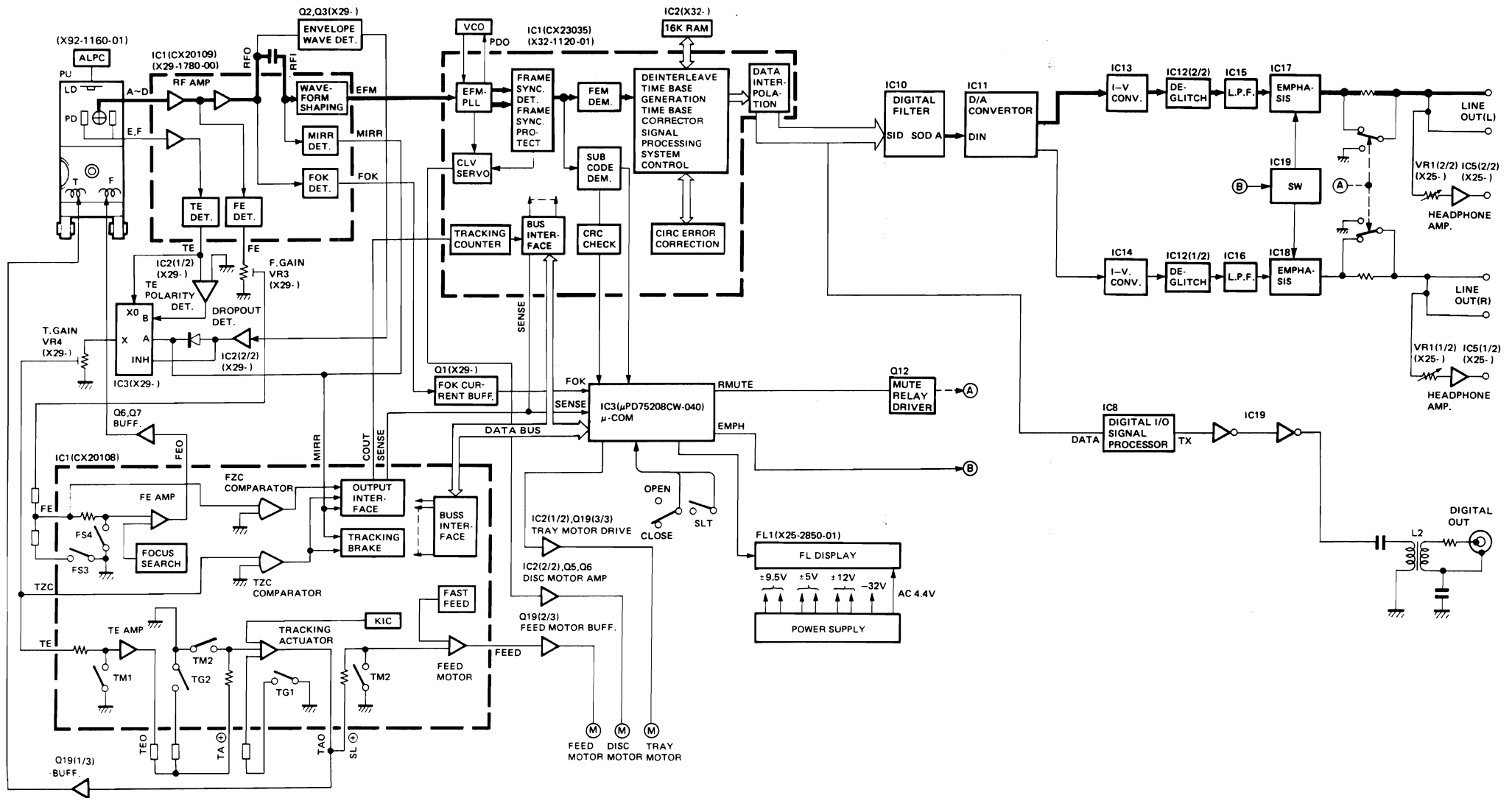


8. When assembling the pickup block, insert the chassis of the Mechanism ass'y in the direction of arrow **13**. Align the position of the screws and secure them (**14**).



DP-1100D DP-1100D

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Description of components

1-1. CONTROL CIRCUIT UNIT (X29-1780-00)

*1~*4 : For details, refer to the DP-990D Service Manual.

| Component | Use/Function | Operation/Condition/Compatibility |
|-----------|------------------|-------------------------------------|
| IC1 *1 | CX20109 | Optical pickup preamp. |
| IC2(1/2) | M5218P | Tracking error polarity detector |
| IC2(2/2) | M5218P | Flaw detector level comparator |
| IC3 | μPD4053BC | Tracking error signal select switch |
| Q1 | 2SC945(A)(Q,P) | FOK current buffer |
| Q2 | 2SC945(A)(Q,P) | RF signal enveloped detector |
| Q3 | 2SC945(A)(Q,P) | RF signal enveloped detector |
| D1,D2 | 1SS176 or 1SS131 | Switch |
| D3,D4 | 1SS176 or 1SS131 | Switch |
| D5 | 1SS176 or 1SS131 | Switch |

1-2. CD PLAYER UNIT (X32-1100-11)

| Component | Use/Function | Operation/Condition/Compatibility |
|-----------|-----------------|--------------------------------------|
| IC1 *2 | CX20108 | Servo IC (for pickup supply motor) |
| IC2 | M5218P | OP amp. |
| IC3 | μPD75208CW-040C | Microprocessor |
| IC4~IC7 | LB1294 | FL drivers |
| IC8 | CXD1075P | Digital output signal demodulator IC |
| IC9 | TC74HCU04P | Output amp. (C-MOS hex-inverter) |
| IC10 | SM5802B | Digital filter |
| IC11 *3 | CX20152 | DAC |
| IC12 | μPD4053BC | Analog switch |
| IC13,IC14 | TL072CP-T | Bi-FET input OP amp. |
| IC15~IC18 | NE5532P | OP amps. |
| IC19 | μPD4053BC | Analog switch |
| IC20 | AN7805F | 3-terminal regulator |
| IC21 | AN7905F | 3-terminal regulator |
| IC22 | AN7812F | 3-terminal regulator |
| IC23 | AN7912F | 3-terminal regulator |
| IC24 | AN7805F | 3-terminal regulator |
| IC25 | AN7905F | 3-terminal regulator |
| IC26 | M51951ASL | Reset IC |

CIRCUIT DESCRIPTION

| Component | Use/Function | Operation/Condition/Compatibility |
|-----------|-----------------|--|
| Q1 | 2SA733(A)(Q,P) | Switch ON/OFF switch for -5V for pickup laser power. |
| Q2 | 2SA1286 | Transistor Ripple filter for -5V for pickup laser power. |
| Q3 | 2SK246(Y,GR) | FET Regulated current supply for constant voltage regulated circuit for pickup laser power. |
| Q4 | 2SA1286 | Transistor CLV circuit current buffer. |
| Q5 | 2SC3246 | Transistor CLV circuit current buffer. |
| Q6 | 2SA1286 | Transistor Focusing servo circuit actuator driver. |
| Q7 | 2SD1266 | Transistor Focusing servo circuit actuator driver. |
| Q8 | 2SK246(Y,GR) | Switch Destroys the offset of disc motor drive circuit so that the voltage is not applied to the disc motor. |
| Q9 | 2SC945(A),(Q,P) | Switch When the disc motor is not rotating, stops the ASY operation by reducing the ASY sampling potential down to -B(V). |
| Q10 | 2SA733(A)(Q,P) | Switch A transistor that inverts the MON output logic to shift the level. |
| Q11 | 2SC945(A),(Q,P) | Transistor Constant-voltage transistor that supplied regulated VDD for the FL driver ICs (IC4 to IC7). |
| Q12 | 2SD1302(S,T) | Switch Relay driver for muting. |
| Q13 | 2SK245(Y) | FET Regulated current supply FET for determining Iset of DAC. |
| Q14 | 2SK170. | FET Regulated current supply for generation of the reference voltage of Iset of DAC. |
| Q15 | 2SK363(V) | FET Regulated current supply which provides bias current to the DAC. |
| Q17,Q18 | 2SK152(3,4) | FETs Switch for discharging I-V converter for DAC. |
| D1~D4 | DSM1A1 | Diodes Rectifier for DAC. |
| D5~D8 | DSM1A1 | Diodes Rectifier for servo and digital systems. |
| D9,D10 | DSM1A1 | Diodes Voltage-multiplying rectifier for FL display. |
| D11~D14 | 1SS176 | Diodes Limiter for protection against static electricity in digital output. |
| D15 | RD5.6JS(B2) | Zener diode Generation of reference voltage for laser power. |
| D16 | RD8.2JS(B) | Zener diode Voltage generator for maintaining the FL clear potential. |
| D17 | 1SS176 | Diode For key scanning in test modes. |
| D18~D20 | 1SS176 | Diodes Diodes connecting the mechanism's limit switch. (For protection against static electricity) |
| D21 | RD6.8JS(B2) | Zener diode For reference voltage which determines VDD of FL driver ICs (IC4 to IC7). |
| D22,D23 | 1SS176 | Limiter For protection against static electricity. |
| D24,D25 | RD7.5JS(B) | Zener diodes Generation of reference voltage for DAC |
| D26,D27 | 1SS176 | Limiters For protection against static electricity |
| D28 | 1SS176 | Switch For erasing the counter-electromotive voltage of relay. |
| D29 | 1SS176 | Switch For protection of variation of subcodes in digital output during searching. |
| D30 | 1SS176 | Switch Digital output ON/OFF switch. |

1-3. PROCESSOR UNIT (X32-1120-01)

| Component | Use/Function | Operation/Condition/Compatibility |
|-----------|--------------|--|
| IC1 *4 | CX23035 | Digital signal processor EFM decoding, CLV control, PLL circuit interpolation correction. |
| IC2 | CXK5816M | RAM Signal processor RAM. (16K) |
| IC3 | M5218P | (1/2) : CLV circuit compensator, (2/2) : PLL circuit compensator. |
| D1 | 1SV147 | Varicap For VCO for PLL. |

CIRCUIT DESCRIPTION

2. Digital output signal demodulator IC : CXD1075P (X32-1100-11 : IC8)

2-1. Block diagram

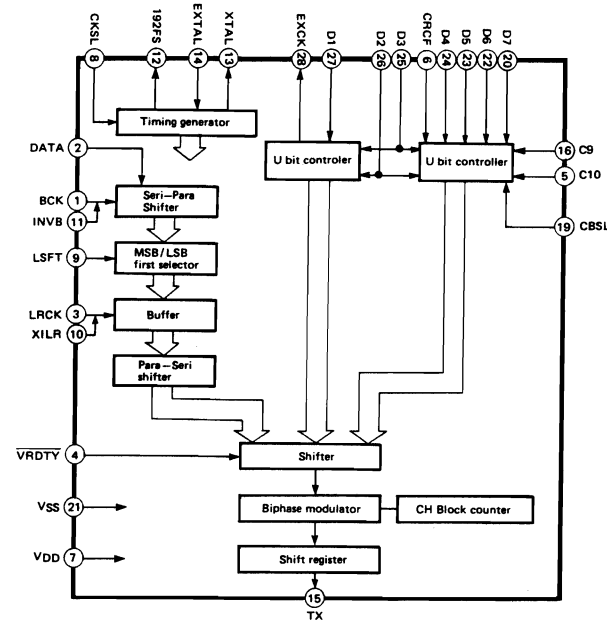


Fig. 2-1

2-2. Terminal connection diagram

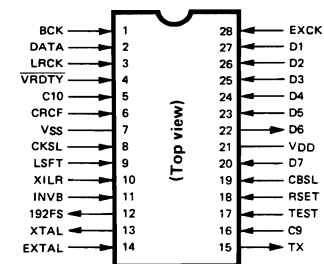


Fig. 2-2

CIRCUIT DESCRIPTION

2-3. Explanation of terminals

| Terminal No. | Symbol | I/O | Function |
|--------------|--------|-----|--|
| 1 | BCK | I | Bit clock input. Connect the clock which shifts out data in the external digital audio data output circuit. |
| 2 | DATA | I | Digital audio data input (NRZ). |
| 3 | LRCK | I | Clock input for L/R channel identification of digital audio data input. The frequency is equal to F_s (sampling frequency). |
| 4 | VRDTY | I | Validity flag input. "H" flag is used when the data is being processed by interpolation, etc. |
| 5 | C10 | I | C-bit category code C10 presetting input. |
| 6 | CRCF | I | C-bit block start sync input. When CX23035 is used, connected this terminal to the CRCF output (pin 12). In other cases, the signal is fixed at "H". |
| 7 | Vss | - | GND. |
| 8 | CKSL | I | Input for selecting if the reference clock is EXTAL or its 1/3. |
| 9 | LSFT | I | Input for selecting between LSB first and MSB first operation. |
| 10 | XILR | I | Input for selecting between LRCK "H" and "L". |
| 11 | INVB | I | Input for selecting if BCK timing used is the rise or fall. |
| 12 | 192Fs | O | Clock output for use as CD master clock when CD is connected. The frequency is 192 times the sampling frequency. |
| 13 | XTAL | O | When a X'tal oscillator is used, it is connected across this pin and EXTAL (pin 14). |
| 14 | EXTAL | I | When a X'tal oscillator is used, it is connected across this pin and XTAL (pin 13). In other cases, this pin is used for external clock input. |
| 15 | TX | O | Output of transmission data converted into the digital interface format. |
| 16 | C9 | I | C-bit category code C9 presetting input. |
| 17 | TEST | I | Test mode select input. Fixed at "L" in normal operation. |
| 18 | RSET | I | LSI operation start/stop input. "H" during operation. |
| 19 | CBSL | I | Input for selecting if the C-bit input is serial or parallel. |
| 20 | D7 | I | C4 (Emphasis information) presetting input when C-bit input is parallel. |
| 21 | VDD | - | +5V. |
| 22 | D6 | I | C3 (Copy Inhibit information) presetting input when C-bit input is parallel. |
| 23 | D5 | I | C2 (ID1) presetting input when C-bit input is parallel. |
| 24 | D4 | I | C1 (ID0) presetting input when C-bit input is parallel. When it is serial, used as SUBQ input which provides C1 to C4. |
| 25 | D3 | I | SCOR input which indicates the start of subcode block to be included in U-bit data. |
| 26 | D2 | I | WFCK input which indicates the frame of subcode to be included in U-bit data. |
| 27 | D1 | I | Serial input for subcode to be included in U-bit data. (Connected to SBSO). |
| 28 | EXCK | O | Clock output to be supplied to the external subcode output circuit in order to shift subcode out. (Connect EXCK). |

Table 2-1

CIRCUIT DESCRIPTION

2-4. Explanation of functions

• Selector pins

For increased freedom in the selection of the signal processor LSI IC, the digital output signal demodulator IC is equipped with various selectors that can select the internal functions according to the signal processor LSI IC used.
 TEST (pin 17) : Test mode setting input. Fixed at "L".
 RSET (pin 18) : When TEST is "L", the signal demodulator LSI IC operates when RSET is

"H" and stops when it is "L". When the LSI is not operating, only 192Fs is output normally while other outputs are fixed.

The following five pins are the selector pins which sets the signal processor LSI IC.

| Terminal No. | Symbol | Description |
|--------------|--------|--|
| 8 | CKSL | Fixed at "H" when EXTAL input is 384Fs, "L" when it is 128 Fs. |
| 9 | LSFT | Fixed at "H" when DATA input is MSB first, and "L" when it is LSB first. |
| 10 | XILR | Fixed at "L" when LRCK input is L-ch and "H", "H" when it is "L". |
| 11 | INVB | Fixed at "L" when DATA is shifted at the falling edge of BCK, "H" when it is shifted at the rising edge. |
| 19 | CBSL | Fixed at "L" when C-bit input is serial, "H" when it is parallel. |

Table 2-2

The modes of the signal processor LSI IC are set by the above methods.

• Input signal description (ex. CX23035)

1) Digital audio data

This LSI uses 16-bit serial digital audio data, and the data bits are arranged from backward with respect to LRCK. As the period of clock BCK is equal to the data bit rate, more than 16 clocks are required for each word.

For example, when the signal processor LSI connected is CX23035, which is a CD signal processor, LRCK is "H" during the L-ch audio data and "L" during the R-ch audio data, and the audio data is shifted in MSB-first mode at the fall of BCK. These factors can be set by the above-mentioned selector pins.

2) Master clock

When a 1-sample/48-clock one-chip CD IC (CX23035) is used, a X'tal oscillator of $3 \times 128Fs = 16.9344\text{MHz}$ shall be connected across XTAL (pin 13) and EXTAL (pin 14). The internal circuitry of this LSI IC uses the 1/3 clock, which is 5.6MHz, as the master clock, while the CD uses the output from 192Fs (pin 12) as the master clock ($3 \times 128Fs/2 = 8.4672\text{MHz}$).

It is also possible to connect a 128Fs (5.6448MHz) X'tal oscillator across XTAL and EXTAL and to use it as the common master clock with the signal processor LSI.

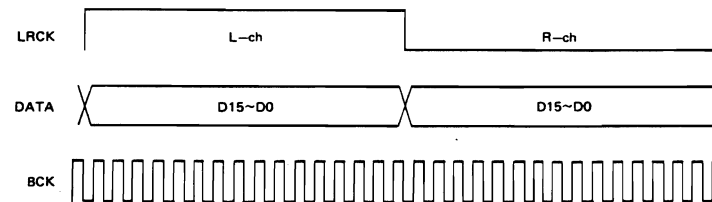


Fig. 2-3

CIRCUIT DESCRIPTION

3) Channel status data

By connecting D2 (pin 26) with the write frame clock output terminal (WFCK) of the CD LSI, D3 (pin 25) with the subcode sync S0 + S1 output terminal (SCOR), D4 (pin 24) with the subcode Q output terminal (SUBQ) and CRCK (pin 6) with the subcode Q error flag terminal (CRCF), it becomes possible to read respectively the ID0, ID1, COPY INHIBIT and EMPHASIS information from SUBQ and to set them on the specified positions of the C-bit data. However, when there is no terminal corresponding to CRCF, it shall be fixed at "H".

The category code (subcode bits 9 and 10) is input in DC via C9 (pin 16) and C10 (pin 5). With the CD, the category code is (C9, C10) = (1, 0) so the bits are fixed at C9 = "H" and C10 = "L".

Note : D4 (SUBQ) is read at the rise of D2 (WFCK), latched and, when CRCF = "H", loaded as the C-bit data at the fall of D3 (SCOR). If CRCF = "L", the previous value is held.

With this LSI, it is also possible to input the channel status data in parallel. In this case, ID0, ID1, COPY, EMPHASIS and category code are input respectively to D4, D5, D6, D7 and C9 and C10 by direct DC inputs.

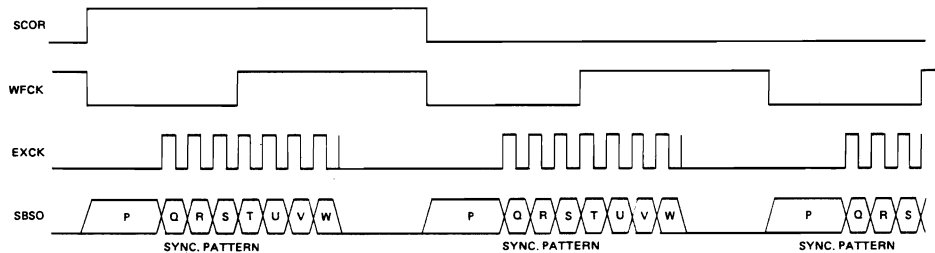


Fig. 2-4

4) User-definable data

The U-bit data is reserved for including the CD sub-code. Similarly to C-bit data, the CD subcode can be superimposed by supplying the CD LSI output directly to the signal demodulator LSI.

When WFCK is input to D2 (pin 26) and SCOR to D3 (pin 25), EXCK (pin 28) is output. When EXCK is input to CD LSI, it outputs SBSO (subcode data), which is input to D1 (pin 27).

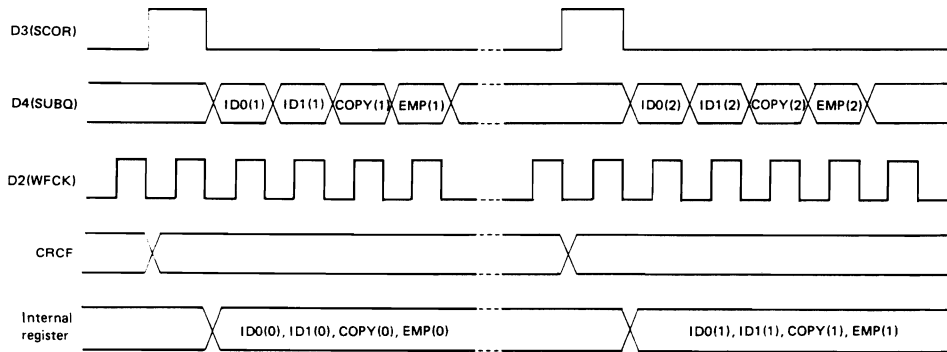


Fig. 2-5

CIRCUIT DESCRIPTION

5) Validity flag

For validity flag, apply the flag synchronized with LRCK to VRDITY (pin 4) as shown in Fig. 2-6.

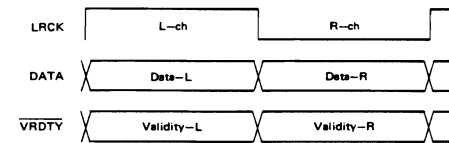


Fig. 2-6

3. Dual D Flip-Flop IC : TC74HC74F (X25-2850-01 : IC1)

3-1. Block diagram

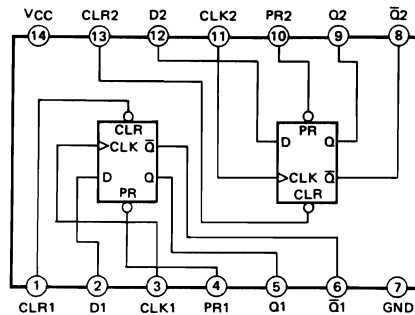


Fig. 3-1

3-2. Truth table

| Inputs | | | Outputs | | |
|--------|-----|-----|---------|----------------|-----------------|
| PR | CLR | CLK | D | Q | Q̄ |
| L | H | X | X | H | L |
| H | L | X | X | L | H |
| L | L | X | X | H* | H* |
| H | H | ↑ | H | H | L |
| H | H | ↑ | L | L | H |
| H | H | L | X | Q ₀ | Q̄ ₀ |

Q0 : Condition before input
* : Unstable

Table 3-1

4. Hex D Flip-Flop IC : TC74HC174F (X25-2850-01 : IC3)

4-1. Terminal connection diagram

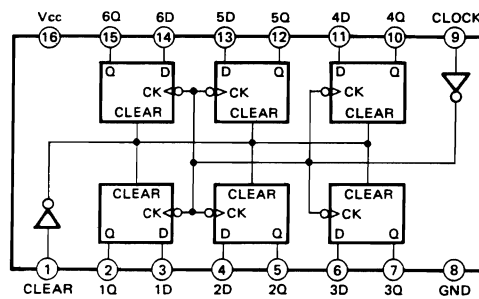


Fig. 4-1

4-2. Truth table

| Inputs | | | Outputs |
|--------|-------|---|----------------|
| Clear | Clock | D | Q |
| L | X | X | L |
| H | ↑ | H | H |
| H | ↑ | L | L |
| H | L | X | Q ₀ |

Table 4-1

ADJUSTMENT

1. Adjustment

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | PLAYER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|--|--|---|--|---|---|------|
| 1 | VCO ADJUSTMENT | - | Connect a frequency counter across TP1 (GND) and TP2 (PLCK) of X32-1120-01. | Tray open, or stop mode | Rotate the core of C1 of X29-1780-00. | 4.32MHz | (a) |
| 2 | LASER POWER CHECK (when PL seems to be defective) | - | Place an optical power meter on the pickup. | With tray open, connect TP7 of X32-1100-11(A/4) to GND. | - | Acceptable if between 100 μ W and 200 μ W. | (b) |
| 3 | RF OFFSET CHECK | - | Connect an oscilloscope to pin 2 (RF) of CN4 of X29-1780-00. Connect the oscilloscope's GND to TP1 (GND). | Tray open, or stop mode. | - | Acceptable if around -0.70 (V) | (c) |
| 4 | TEST MODE SETTING | Place test disc Type 3 on the tray, and complete loading. | Short-circuit between TP8 and TP9 of X32-1100-11(A/4). | Turn POWER SW OFF then ON again. | - | Check that the display is 01 ∞ . | (d) |
| 5 | TANGENTIAL SETTING | Place test disc Type 3 on the tray, and complete loading. | Connect an oscilloscope to pin 2 (RF) of CN4 of X29-1780-00. | Press CHECK key. The laser will be focused. (Test mode) | Hex recessed screw below mechanism | The display shall be 03 ∞ , and the amplitude maximum. | (e) |
| 6 | FOCUSING OFFSET COARSE ADJUSTMENT | Place test disc Type 3 on the tray, and complete loading. | Connect an oscilloscope to pin 2 (RF) of CN4 of X29-1780-00. | Press CHECK key. The laser will be focused. (Test mode) | Rotate VR2 of X29-1780-00. | Maximum amplitude. | (e) |
| 7 | T. ERROR BALANCE COARSE ADJUSTMENT | Place test disc Type 3 on the tray, and complete loading. | Connect oscilloscope CH1 to pin 2 (RF) of CN4 of X29-1780-00, and connect CH2 to pin 3 (TE). | Press CHECK key. The laser will be focused. (Test mode) | Rotate VR1 of X29-1780-00. | Adjust so that T. ERROR amplitude is symmetrical above and below 0 (V). (Photo 5) | (f) |
| 8 | TANGENTIAL AND FOCUSING OFFSET FINE ADJUSTMENTS | Place test disc Type 3 on the tray, and complete loading. | Connect an oscilloscope to pin 2 (RF) of CN4 of X29-1780-00. | Press PLAY key. (Tracing will start.) (Test mode) | VR2 of X29-1780-00. Hex recessed screw below mechanism. | Rotate VR2 and hex recessed screw alternately to obtain optimum waveform. | (e) |
| 9 | T. ERROR BALANCE FINE ADJUSTMENT | Place test disc Type 3 on the tray, and complete loading. | Connect oscilloscope CH1 to pin 2 (RF) of CN4 of X29-1780-00, and connect CH2 to pin 3 (TE). | Press CHECK key. (Focusing servo only mode) (Test mode) | Rotate VR1 of X29-1780-00. | Adjust so that T. ERROR amplitude is symmetrical above and below 0 (V). (Photo 5) | (f) |
| 10 | FOCUS GAIN ADJUSTMENT | Place a test disc that is as flawless as possible, and complete loading. | Connect the servo adjusting jig to CN2 of X29-1780-00. (f = 700Hz. V OUT = 40Vrms) | Turn POWER SW OFF then ON again. Then press PLAY key to start normal play. | Rotate VR3 of X29-1780-00. | Adjust so that the millivoltmeter connected to the jig (SGA-1) reads 40mVrms. | (g) |
| 11 | TRACKING GAIN ADJUSTMENT | Place a test disc that is as flawless as possible, and complete loading. | Connect the servo adjusting jig to CN2 of X29-1780-00. (f = 900Hz. V OUT = 40Vrms) | Normal play | Rotate VR4 of X29-1780-00. | Adjust so that the millivoltmeter connected to the jig (SGA-1) reads 40mVrms. | (g) |
| 12 | DAC ADJUSTMENT | Test disc YDS-7 Type 3 | Connect a millivoltmeter to the output terminal. | Play 1 kHz. 0 dB signal. | Rotate VR1 of X32-1100-11 (A.4). | Adjust so that the output is between 1.9 and 2.0 Vrms. | (h) |

ADJUSTMENT

ADJUSTMENT

2. Effective keys in the Test mode and their functions






| No. | Input key | Function | T. No. display |
|-----|------------|--|--|
| 1 | PLAY | (1) Focus servo ON. (2) Tracking servo ON. (3) Feed servo ON. When the key is pressed in the Stop mode, the servoes are switched ON automatically in the order from (1) to (3). |  Displayed for a few seconds after (1) to (3). Disc's Track No. is displayed. |
| 2 | CHECK | (1) Focus servo ON. (2) Tracking servo OFF. (3) Feed servo OFF. |  |
| 3 | CLEAR | (1) Focus servo ON. (2) Tracking servo ON. (3) Feed servo OFF. |  |
| 4 | STOP | (1) Focus servo OFF. (2) Tracking servo OFF. (3) Feed servo OFF. |  |
| 5 | REPEAT | (1) Tray : Open. (2) Laser ON. |  |
| 6 | FF (▶▶) | In Stop mode : Moves the PU slightly to the outer tracks. With feed servo ON : Switches the tracking gain to "H". | |
| 7 | FR (◀◀) | In Stop mode : Moves the PU slightly to the inner tracks. With feed servo ON : Switches the tracking gain to "L". | |
| 8 | OPEN/CLOSE | Release the Test mode and opens the tray. | |

Table 1

Note : How to enter the test mode

Short-circuit between TP8 and TP9 of the CD Player UNIT (X32-1100-11) (A/4), turn Power switch OFF, then turn Power switch ON again.

Focus gain adjustment

If a servo-adjusting jig (SGA-01) is not prepared, apply a 700Hz, 0.4V signal to pin 2 of CN2 and connect L.P.F. to pin 1 of CN2 of X29-1780-00.

Tracking gain adjustment

If a servo-adjusting jig (SGA-01) is not prepared, apply a 900Hz, 0.4V signal to pin 4 of CN2 and connect L.P.F. to pin 1 of CN2 of X29-1780-00.

3. Diffraction grating

While adjusting the refraction grid, be sure that the grids are completely misaligned.

- While in the test mode*¹, press CHECK key*² to set only the focusing servo ON.

*¹ Test mode :

To enter this mode, short-circuit between TP8 and TP9 of the CD Player unit (X32-1100-11) (A/4), and turn Power switch OFF then ON again.

*² CHECK key :

For details, refer to Table 1.

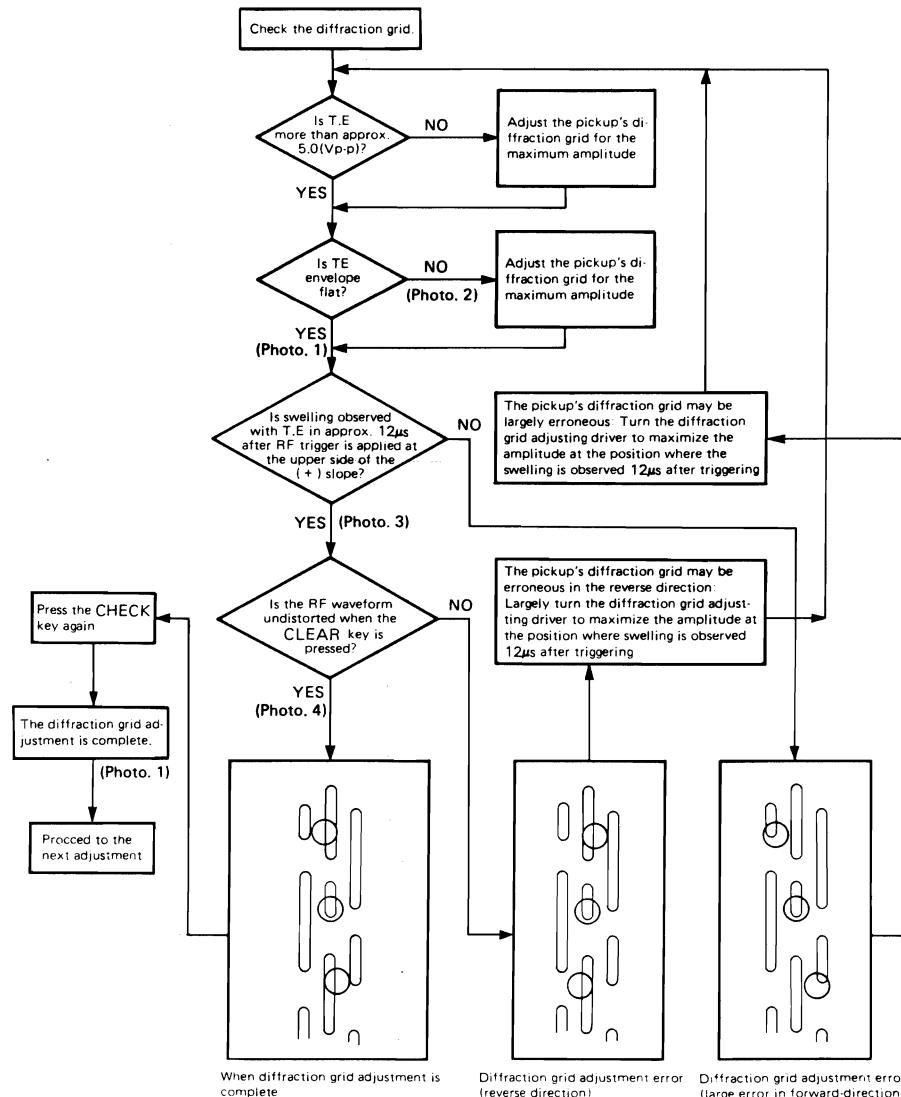


Fig. 1

REGLAGE

REGLAGE

1. Réglage

| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE SORTIE | REGLAGE DE LA LECTURE | POINT D'ALIGNEMENT | ALIGNER POUR | FIG. |
|----|---|--|---|--|---|--|------|
| 1 | AJUSTEMENT VCO | - | Raccorder un compteur de fréquence entre TP1 (GND) et TP2 (PLCK) de X32-1120-01. | Tiroir ouvert ou mode d'arrêt | Faire tourner le noyau de L1 de X32-1120-01. | 4.32MHz | (a) |
| 2 | VERIFICATION DE PUISSANCE DU LASER (quand PU semble défectueux) | - | Placer un compteur de puissance optique sur le capteur. | Le tiroir ouvert, connecter TP7 de X32-1100-11(A/4) à GND. | - | Acceptable si entre 100 µW et 200 µW. | (b) |
| 3 | VERIFICATION D'OFFSET RF | - | Raccorder un oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00. Raccorder GND de l'oscilloscope à TP1 (GND). | Tiroir ouvert ou mode d'arrêt | - | Acceptable si aux environs de -0.70 (V). | (c) |
| 4 | REGLAGE DE MODE DE TEST | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Court-circuiter entre TP8 et TP9 de X32-1100-11(A/4). | Mettre POWER SW sur OFF puis à nouveau sur ON. | - | Vérifier que l'affichage est 01 00. | (d) |
| 5 | REGLAGE TANGENTIEL | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Raccorder un oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00. | Presser la touche CHECK. Le laser sera mis au point. (Mode de test) | Vis hexagonale sous le mécanisme | L'affichage doit être 03 00 et l'amplitude maximum. | (e) |
| 6 | AJUSTEMENT APPROXIMATIF DE L'OFFSET DE MISE AU POINT | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Raccorder un oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00. | Presser la touche CHECK. Le laser sera mis au point. (Mode de test) | Faire tourner VR2 de X29-1780-00. | Amplitude maximum | (e) |
| 7 | AJUSTEMENT APPROXIMATIF DE BALANCE T.ERROR | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Connecter le canal 1 de l'oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00 et raccorder le canal 2 à sa broche 3 (TE). | Presser la touche CHECK. Le laser sera mis au point. (Mode de test) | Faire tourner YR1 de X29-1780-00. | Ajuster pour que l'amplitude T.ERROR soit symétrique en-dessus et au-dessous de 0 (V). (Photo 5) | (f) |
| 8 | AJUSTEMENTS PRECIS DE L'OFFSET TANGENTIEL ET DE MISE AU POINT. | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Raccorder un oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00. | Presser la touche PLAY. (Le tracé commencera.) (Mode de test) | VR2 de X29-1780-00. Vis hexagonale sous le mécanisme. | Faire tourner alternativement VR2 et la vis hexagonale pour obtenir une forme d'onde optimale. | (e) |
| 9 | AJUSTEMENT PRECIS DE BALANCE T.ERROR | Placer un disque test de type 3 sur le tiroir et effectuer le chargement. | Connecter le canal 1 de l'oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00 et raccorder le canal 2 à sa broche 3 (TE). | Presser la touche CHECK. (Mode d'asservissement de mise au point seulement) (Mode de test) | Faire tourner YR1 de X29-1780-00. | Ajuster pour que l'amplitude T.ERROR soit symétrique en-dessus et au-dessous de 0 (V). (Photo 5) | (f) |
| 10 | AJUSTEMENT DE GAIN DE MISE AU POINT (FOCUS GAIN) | Placer un disque test ayant le moins de défauts possible et effectuer le chargement. | Raccorder le gabarit de réglage d'asservissement à CN2 de X29-1780-00 (f = 700 Hz. V OUT = 40mVrms) | Mettre POWER SW sur OFF puis à nouveau sur ON. Presser ensuite la touche PLAY pour commencer la lecture normale. | Faire tourner VR3 de X29-1780-00. | Ajuster pour que le millivoltmètre raccordé au gabarit (SGA-1) indique 40mVrms. | (g) |

| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE SORTIE | REGLAGE DE LA LECTURE | POINT D'ALIGNEMENT | ALIGNER POUR | FIG. |
|----|---|--|---|-----------------------------|---------------------------------------|---|------|
| 11 | AJUSTEMENT DU GAIN D'ALIGNEMENT (TRACKING GAIN) | Placer un disque test ayant le moins de défauts possible et effectuer le chargement. | Raccorder le gabarit d'ajustement d'asservissement à CV2 de X29-1780-00 (f = 900 Hz. V OUT = 40mVrms) | Lecture normale | Faire tourner VR4 de X29-1780-00 | Ajuster pour que le millivoltmètre raccordé au gabarit (SGA-1) indique 40mVrms. | (g) |
| 12 | AJUSTEMENT DAC | Disque test YDS-7 Type 3 | Raccorder un millivoltmètre à la borne de sortie. | Lire un signal 1 kHz, 0 dB. | Faire tourner YR1 de X32-1100-11(A/4) | Ajuster pour que la sortie soit entre 1.9 et 2.0 Vrms. | (h) |

2. Touches fonctionnant en mode de test et leurs fonctions






| N° | Touche d'entrée | Fonction | Affichage T. No. |
|----|-----------------|--|--|
| 1 | PLAY | (1) Asservissement de mist au point ON. (2) Asservissement d'alignement ON. (3) Asservissement d'alimentation ON. Quand la touche est pressé en mode d'arrêt, les asservissements sont automatiquement commutés sur ON dans l'ordre de (1) à (3). |  Affiché pendant quelques secondes après (1) à (3). Le numéro de piste du disque est affiché. |
| 2 | CHECK | (1) Asservissement de mise au point ON. (2) Asservissement d'alignement OFF. (3) Asservissement d'alimentation OFF. |  |
| 3 | CLEAR | (1) Asservissement de mise au point ON. (2) Asservissement d'alignement ON. (3) Asservissement d'alimentation OFF. |  |
| 4 | STOP | (1) Asservissement de mise au point OFF. (2) Asservissement d'alignement OFF. (3) Asservissement d'alimentation OFF. |  |
| 5 | REPEAT | (1) Tiroir : Ouvert. (2) Laser ON. |  |
| 6 | FF (▶▶) | En mode d'arrêt : Déplace légèrement le capteur vers les pistes externes. Avec l'asservissement d'alimentation sur ON : Commute le gain d'alignement sur "H". | |
| 7 | FR (◀◀) | En mode d'arrêt : Déplace légèrement le capteur vers les pistes internes. Avec l'asservissement d'alimentation sur ON : Commute le gain d'alignement sur "L". | |
| 8 | OPEN/CLOSE | Relâche le mode de test et ouvre le tiroir. | |

Tableau 1

Remarque : Pour entrer en mode de test

Court-circuiter entre TP8 et TP9 du lecteur CD (X32-1100-11)(A/4), mettre l'interrupteur d'alimentation sur OFF puis mettre l'interrupteur d'alimentation à nouveau sur ON.

Ajustement de gain de mise au point (Focus gain)

Si un gabarit d'ajustement d'asservissement (SGA-01) n'est pas préparé, appliquer un signal 700Hz, 0.4V à la broche 2 de CN2 et connecter L.P.F. à la broche 1 de CN2 de X29-1780-00.

Ajustement de gain d'alignement (Tracking gain)

Si un gabarit d'ajustement d'asservissement (SGA-01) n'est pas préparé, appliquer un signal 900Hz, 0.4V à la broche 4 de CN2 et connecter L.P.F. à la broche 5 de CN2 de X29-1780-00.

REGLAGE

ABGLEICH

3. Réseau de diffraction

Tout en ajustant le réseau de réfraction, s'assurer que les grilles, sont complètement désalignées.

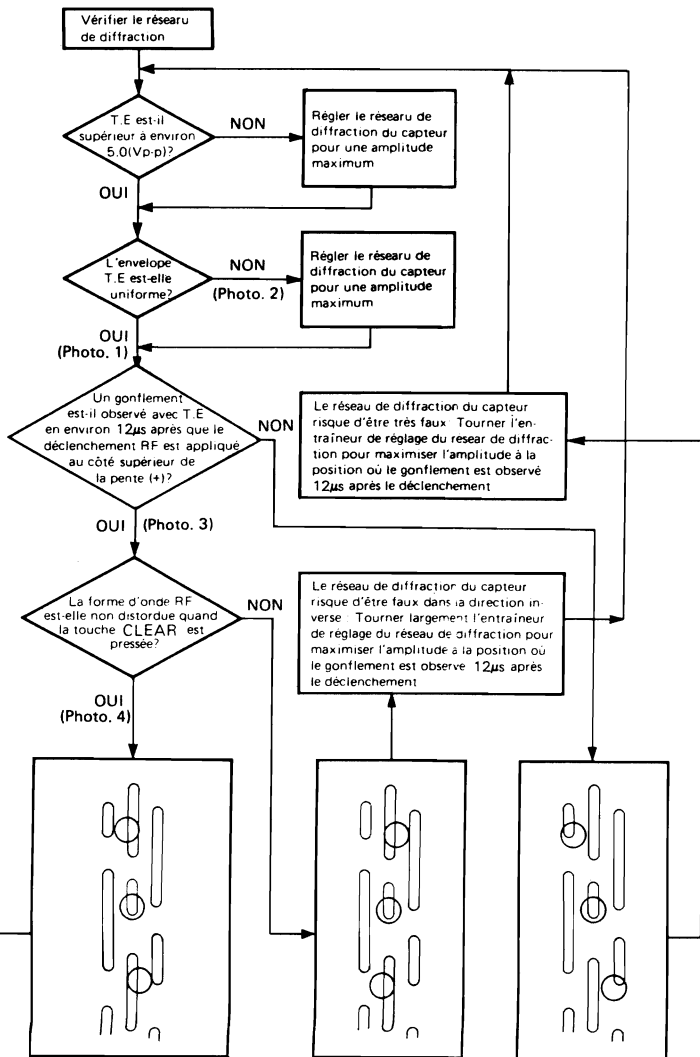
- En mode de test*1, presser la touche CHECK*2 pour mettre uniquement l'asservissement de mist au point sur ON.

*1 Mode de test :

Pour entrer ce mode, court-circuiter entre TP8 et TP9 du lecteur CD (X32-1100-11)(A/4) et mettre l'interrupteur d'alimentation sur OFF puis à nouveau sur ON.

*2 Touche CHECK :

Pour plus de détails, se référer au Tableau 1.



Quand le réglage du réseau de diffraction est terminé

Erreur de réglage du réseau de diffraction (Direction inverse)

Erreur de réglage du réseau de diffraction (Grande erreur en direction avant)

Fig. 1

1. Abgleich

| NR. | GEGENSTAND | EINGANGS-EINSTELLUNG | AUSGANGS-EINSTELLUNG | SPIELER-EINSTELLUNG | ABGLEICH-PUNKTE | ABGLEICHEN FÜR | ABB. |
|-----|--|--|--|--|---|--|------|
| 1 | VCO-EINSTELLUNG | - | Einen Frequenzzähler zwischen TP1 (GND) und TP2 (PLCK) von X32-1120-01 anschließen. | Träger geöffnet oder Stop-Betriebsart | Den Kern von L1 von X32-1120-01 drehen. | 4.32MHz | (a) |
| 2 | ÜBERPRÜFUNG DER LASERLEISTUNG (Wenn PU defekt zu sein scheint) | - | Einen Optikleistungsmesser auf den abnehmer setzen. | Bei geöffnetem Träger TP7 von X32-1100-11(A/4) an GND anschließen. | - | Akzeptabel, wenn zwischen 100 µW und 200 µW. | (b) |
| 3 | RF-VERSATZ-PRÜFUNG | - | Ein Oszilloskop an Stift 2 (RF) von CN4 von X29-1780-00 anschließen. GND des Oszilloskop an TP1 (GND) anschließen. | Träger geöffnet oder Stop-Betriebsart | - | Akzeptable, wenn etwa -0.70 (V). | (c) |
| 4 | TESTMODUS-EINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Zwischen TP8 und TP9 von X32-1100-11(A/4) Kurzschließen. | POWER-Schalter aus- und wieder einschalten. | - | Auf dem Display muß 01 ∞ angezeigt werden. | (d) |
| 5 | TANGENTIAL-EINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Ein Oszilloskop an Stift 2 (RF) von CN4 von X29-1780-00 anschließen. | Die CHECK-Taste drücken. Der Laser fokussiert. (Testmodus) | Innensechskantschraube unter Mechanismus | Das Display muß 03 ∞ anzeigen und die Amplitude maximal sein. | (e) |
| 6 | FOKUSVERSATZ-GROBEINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Ein Oszilloskop an Stift 2 (RF) von CN4 von X29-1780-00 anschließen. | Die CHECK-Taste drücken. Der Laser fokussiert. (Testmodus) | VR2 von X29-1780-00 drehen. | Maximale Amplitude | (e) |
| 7 | T.ERROR-BALANCE-GROBEINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Kanal 1 des Oszilloskops an Stift 2 (RF) und Kanal 2 an Stift 3 (TE) von CN4 von X29-1780-00 anschließen. | Die CHECK-Taste drücken. Der Laser fokussiert. (Testmodus) | VR1 von X29-1780-00 drehen. | So einstellen, daß die T.ERROR-Amplitude unter und über 0 (V) symmetrisch ist. (Foto 5) | (f) |
| 8 | TANGENTIAL- UND FOKUSVERSATZ-FEINEINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Ein Oszilloskop an Stift 2 (RF) von CN4 von X29-1780-00 anschließen. | Die PLAY-Taste drücken. (Die Spurhaltung startet.) (Testmodus) | VR2 von X29-1780-00, Innensechskantschraube unter Mechanismus | VR2 und die Innensechskantschraube abwechselnd drehen, um die optimale wellenform zu erhalten. | (e) |
| 9 | T.ERROR-BALANCE-FEINEINSTELLUNG | Testdisc Type 3 auf Träger legen und Laden durchführen. | Kanal 1 des Oszilloskops an Stift 2 (RF) und Kanal 2 an Stift 3 (TE) von CN4 von X29-1780-00 anschließen. | Die CHECK-Taste drücken. (nur Fokusservo-Modus) (Testmodus) | VR1 von X29-1780-00 drehen. | So einstellen, daß die T.ERROR-Amplitude unter und über 0 (V) symmetrisch ist. (Foto 5) | (f) |
| 10 | FOCUS GAIN-EINSTELLUNG | Eine möglichst einwandfreie Testdisc auflegen und Laden durchführen. | Die Servo-Einstellehre an CN2 von X29-1780-00 anschließen. (f = 700 Hz, V OUT = 40mVrms) | Den POWER-Schalter aus- und wieder einschalten. Dann die PLAY-Taste drücken, um die normale Wiedergabe zu starten. | VR3 von X29-1780-00 drehen. | So einstellen, daß das an' die Lehre (SGA-1) angeschlossene Millivoltmeter 40mVrms anzeigt. | (g) |

ABGLEICH

| NR. | GEGENSTAND | EINGANGS-EINSTELLUNG | AUSGANGS-EINSTELLUNG | SPIELER-EINSTELLUNG | ABGLEICH-PUNKTE | ABGLEICHEN FÜR | ABB. |
|-----|---------------------------|--|--|-------------------------------------|----------------------------------|--|------|
| 11 | TRACKING GAIN-EINSTELLUNG | Eine möglichst einwandfreie Testdisc auflegen und Laden durchführen. | Die Servo-Einstellehre an CY2 von X29-1780-00 anschließen. (f = 900 Hz, V _{OUT} = 40mVrms) | Normale Wiedergabe | VR4 von X29-1780-00 drehen. | So einstellen, daß das an die Lehre (SGA-1) angeschlossene Millivoltmeter 40mVrms anzeigt. | (g) |
| 12 | DAC EINSTELLUNG | Testdisc YDS-7 Typ 3 | Ein Millivoltmeter an den Ausgangsanschluß anschließen. | Ein 1 kHz, 0 dB Signal wiedergeben. | VR1 von X32-1100-11(A/4) drehen. | So einstellen, daß der Ausgang zwischen 1.9 und 2.0 Vrms liegt. | (h) |

2. Wirksame Tasten im Testmodus und ihre Funktionen






| No. | Eingabetaste | Funktion | T. No. Anzeige |
|-----|--------------|---|--|
| 1 | PLAY | (1) Fokusservo ON. (2) Spurhalteservo ON. (3) Vorschubservo ON. Wenn die Taste in der Stop-Betriebsart gedrückt wird, werden die Servos automatisch in der Reihen-folge von (1) bis (3) eingeschaltet. |  Anzeige für einige Sekunden nach (1) bis (3). ↓ Anzeige der Titel-Nr. der Disc. |
| 2 | CHECK | (1) Fokusservo ON. (2) Spurhalteservo OFF. (3) Vorschubservo OFF. |  |
| 3 | CLEAR | (1) Fokusservo ON. (2) Spurhalteservo ON. (3) Vorschubservo OFF. |  |
| 4 | STOP | (1) Fokusservo OFF. (2) Spurhalteservo OFF. (3) Vorschubservo OFF. |  |
| 5 | REPEAT | (1) Träger : Offen (2) Laser ON. |  |
| 6 | FF (▶▶) | In der Stop-Betriebsart : Bewegt den Tonabnehmer geringfügig zu den äußeren Spuren hin. Bei Vorschubservo ON : Schaltet die Spurhalte-Verstärkung auf "H". | |
| 7 | FR (◀◀) | In der Stop-Betriebsart : Bewegt den Tonabnehmer geringfügig zu den inneren Spuren hin. Bei Vorschubservo ON : Schaltet die Spurhalte-Verstärkung auf "L". | |
| 8 | OPEN/CLOSE | Den Testmodus ausschalten, der Träger wird geöffnet. | |

Tabelle 1

Hinweis : Aktivieren des Testmodus

Zwischen TP8 und TP9 der CD-Spieler-Einheit (X32-1100-11)(A/4) kurzschließen, dann den Netzschalter aus- und wieder einschalten.

Focus gain einstellung

Wenn ein Servo-Einstell-Lehre (SGA-01) nicht vorhanden ist, ein Signal von 700Hz, 0.4V an stift 2 von CN2 anlegen, und ein L.P.F. an stift 1 von CN2 von X29-1780-00 anschließen.

Tracking gain einstellung

Wenn ein Servo-Einstell-Lehre (SGA-01) nicht vorhanden ist, ein Signal von 900Hz, 0.4V an stift 4 von CN2 anlegen, und ein L.P.F. an stift 5 von CN2 von X29-1780-00 anschließen.

ABGLEICH

3. Diffraktionsgitter

Beit der Einstellung des Brechungsgitters darauf achten, daß die Gitter vollkommen nichtfluchtend sind.

- Im Testmodus*¹ die CHECK-Taste*² drücken, um nur den Fokusservo einzuschalten.

*¹ Testmodus :

Zum Aktivieren dieses Modus zwischen TP8 und TP9 der CD-Spieler-Einheit (X32-1100-11)(A/4) kurzschließen, dann den Netzschalter ausund wieder einschalten.

*² CHECK-Taste :

Für Einzelheiten siehe Tabelle 1.

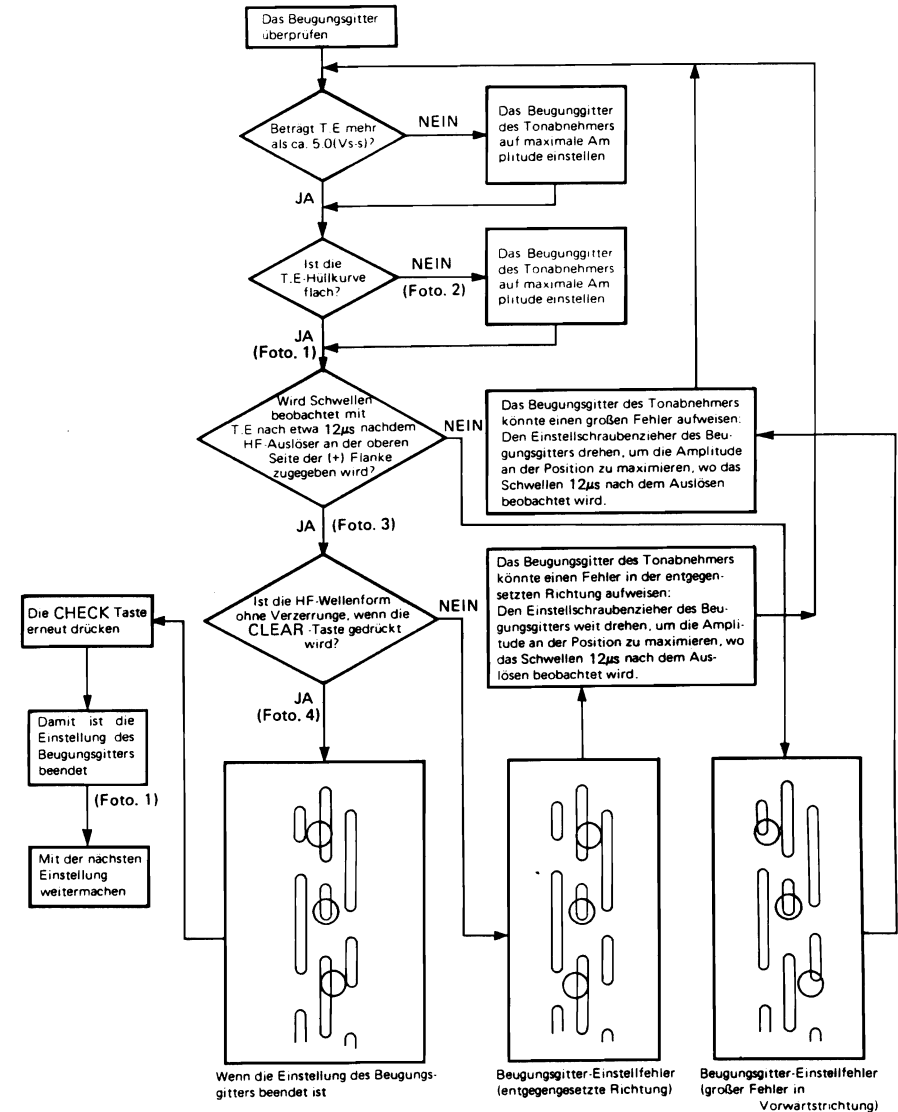


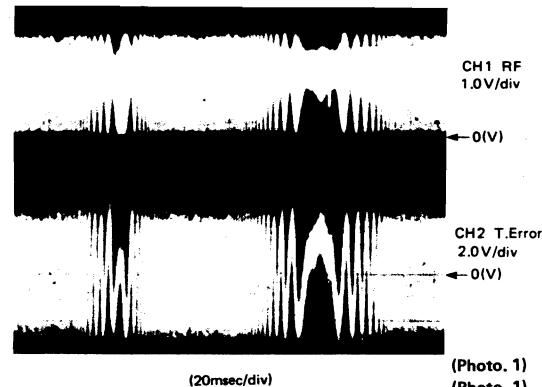
Abb. 1

DP-1100D DP-1100D

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT/REGLAGE/ABGLEICH

4. Description of Signal Waveforms, Connection of Measuring Instruments/Description des formes d'onde des signaux, connexion des instruments de mesure/Beschreibung der Signal-Wellenformen, Anschluß der Meßinstrumente



- RF signal and T.Error signal after diffraction grating adjustment.
- Signal RF et signal T.Error après ajustement de réseau de diffraction.
- RF-Signal und T.Error-Signal nach Diffraktionsgitter-Einstellung.

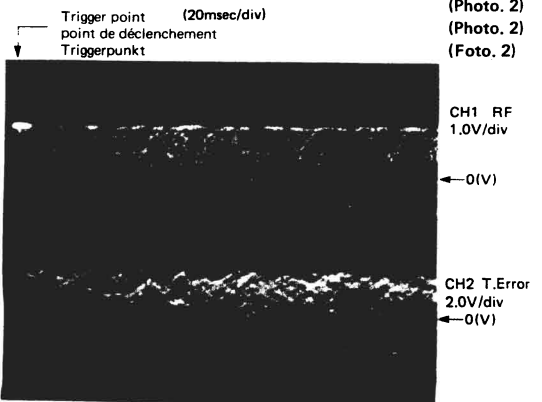
(Photo. 1)
(Photo. 1)
(Foto. 1)



- RF signal and T.Error signal when there is small diffraction grating position error.
- The T.Error signal level is small, and the envelope is as shown in the diagram below.
- Signal RF et signal T.Error quand il y a une petite erreur de position du réseau de diffraction.
- Le niveau de signal T.Error est petit et l'enveloppe est telle qu'indiquée dans le diagramme ci-dessous.
- RF-Signal und T.Error-Signal bei kleinem Diffraktionsgitter-Positionierungsfehler.
- Der T.Error-Signalpegel ist klein, und die Hüllkurve ist wie in der Abbildung unten.

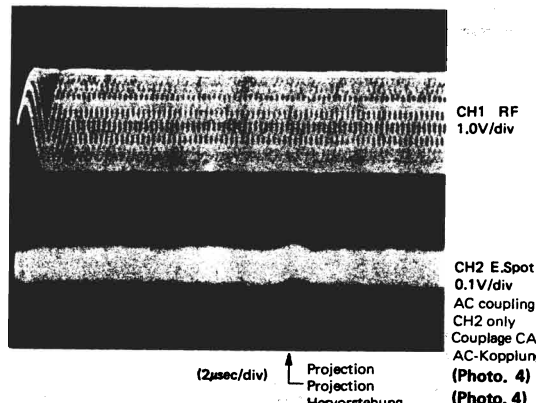


(Photo. 2)
(Photo. 2)
(Foto. 2)



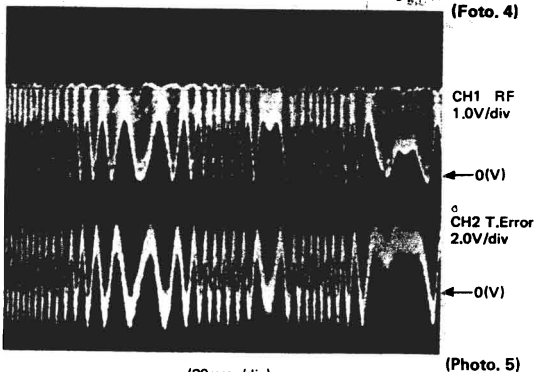
- RF signal and T.Error signal in test mode (with focusing ON).
- When the sub-beam traces the same bit series as the main beam during diffraction grating adjustment, bringing the RF trigger point to the position shown in the Photo causes a "projection" to be observed in the T.Error waveform.
- Le signal RF et le signal T.Error en mode de test (avec la mise au point sur ON).
- Quand un faisceau auxiliaire trace la même série de bits que le faisceau principal pendant l'ajustement de réseau de diffraction, l'apport du point de déclenchement RF à la position indiquée dans la photo provoque une "projection" qui s'observe dans la forme d'onde de T.Error.
- RF-Signal und T.Error-Signal im Testmodus (bei eingeschalteter Fokussierung).
- Wenn der Nebenstrahl die gleiche Bitreihe wie der Hauptstrahl während der Diffraktionsgitter-Einstellung verfolgt und den RF-Triggerpunkt auf die im Foto gezeigte Position bringt, wird eine "Hervorstehung" verursacht, die in der T.Error-Wellenform beobachtet werden kann.

(Photo. 3)
(Photo. 3)
(Foto. 3)



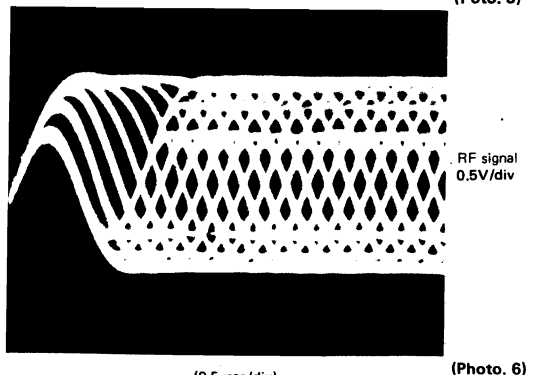
- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 12µs after RF signal, in the form of a projection.
- Signal RF et signal E.Spot en mode de test (PLAY).
- Si le réseau de diffraction a été ajusté correctement, l'influence du déclenchement s'observe sur la forme d'onde E.Spot d'environ 12µs après le signal RF, sous la forme d'une projection.
- RF-Signal und E.Spot-Signal im Testmodus (PLAY).
- Wenn das Diffraktionsgitter richtig eingestellt wurde, wird der Einfluß des Triggers in der E.Spot-Wellenform etwa 12µs nach dem RF-Signal in der Form einer Hervorstehung beobachtet.

(Photo. 4)
(Photo. 4)
(Foto. 4)



- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 3)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR1 of X29-1780-00)
- Signal RF et signal T.Error; en mode test (mise au point ON). (Disque de type 3)
- Ajuster T.Error pour que la forme d'onde soit symétrique en-dessus et au-dessous de 0V. (VR1 de X29-1780-00)
- RF-Signal und T.Error-Signal; im Testmodus (Fokussierung eingeschaltet). (Disc-Typ 3)
- T.Error so einstellen, daß die Wellenform über und unter 0V symmetrisch ist. (VR1 von X29-1780-00)

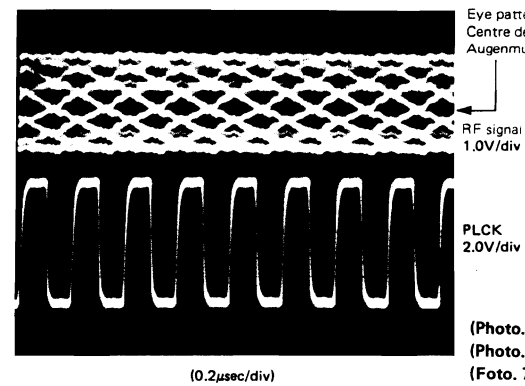
(Photo. 5)
(Photo. 5)
(Foto. 5)



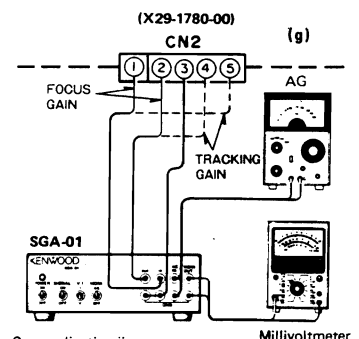
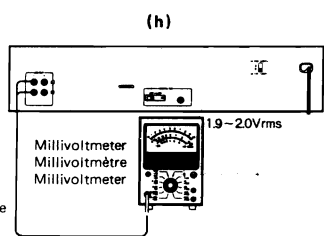
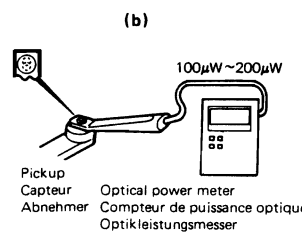
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.
- Signal RF en mode de test (PLAY).
- Effectuer les ajustements d'offset tangentiel et de mise au point pour que chacun des points de croisement central soit mis au point sur un point de l'affichage. Les points de croisement au-dessus et en-dessous du centre doivent aussi être affichés clairement.
- RF-Signal im Testmodus (PLAY).
- Die Tangential- und Fokusversatz-Einstellungen so durchführen, daß jeder der mittleren Kreuzungspunkte in einem Punkt auf dem Display fokussiert wird. Auch die Kreuzungspunkte über und unter der Mitte müssen klar angezeigt werden.

(Photo. 6)
(Photo. 6)
(Foto. 6)

ADJUSTMENT/REGLAGE/ABGLEICH



- RF signal and PLCK signal in test mode (PLAY).
- When the synch system is normal, the cross points at the center of the eye pattern shall coincide with the PLCK fall points.
- Le signal RF et le signal PLCK en mode de test (PLAY).
- Quand le système sync est normal, les points de croisement au centre de la forme oculaire doivent coïncider avec les points de chute PLCK.
- RF-Signal und PLCK-Signal im Testmodus (PLAY).
- Wenn das Sync-System normal ist, müssen die Kreuzungspunkte in der Mitte des Augenmusters mit den PLCK-Fallpunkten zusammenfallen.



SGA-01 :
For details, refer to the material for SGA-01.
Pour plus de détails, se référer au matériel pour le SGA-01.
Für Einzelheiten siehe das Material für SGA-01.

Servo adjusting jig
Gabarit de réglage d'asservissement
Servo-Einstellehre

• DIFFRACTION GRATING ADJUSTMENT (PU)

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | PLAYER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|-------------------------------------|--|--|---|---|---|------|
| 1 | DIFFRACTION GRATING ADJUSTMENT (PU) | place test disc on the tray. Type 3 and complete. loading. | Connect oscilloscope CH1 to pin 2 (RF) of CN4 of X29-1780-00, and connect CH2 to its pin 3 (TE). | Press CHECK Key. (Focusing servo only mode) (Test mode) | Pickup adjusting hole. Use a grid driver. | Refer to section "3. diffraction grating" on page 16. | (f) |

• ADJUSTMENT DE RESEAU DE DIFFRACTION (PU)

| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE SORTIE | REGLAGE DE LA LECTURE | POINTS D'ALIGNEMENT | ALIGNER POUR | FIG. |
|----|--|---|---|--|--|--|------|
| 1 | ADJUSTMENT DE RESEAU DE DIFFRACTION (PU) | Placer un disque test de Type 3 sur le tiroir et effectuer le chargement. | Connecter le canal 1 de l'oscilloscope à la broche 2 (RF) de CN4 de X29-1780-00 et raccorder le canal 2 à sa broche 3 (TE). | Presser la touche CHECK. (Mode d'asservissement de mise au point seulement) (Mode de test) | Trou d'ajustement du capteur. Utiliser un tournevis. | Se référer à la section "3. Réseau de diffraction", page 19. | (f) |

• DIFFRAKTIONSGITTER-EINSTELLUNG (PU)

| NR. | GEGENSTAND | EINGANGS-EINSTELLUNG | AUSGANGS-EINSTELLUNG | SPIELER-EINSTELLUNG | ABGLEICH-PUNKTE | ABGLEICHEN FÜR | ABB. |
|-----|-------------------------------------|--|---|---|--|---|------|
| 1 | DIFFRAKTIONSGITTER-EINSTELLUNG (PU) | Testdisc auf Träger legen und laden druchführen. | des Oszilloskops an Stift 2 (RF) und kanal 2 an Stift 3 (TE) von CN4 von X29-1780-00 anschließen. | Die CHECK-Taste drücken. (nur fokusservo-Modus) (Testmodus) | Einstellöffnung. Gitterschrauben-ziehervenden. | Siehe Abschnitt "3. Diffraktionsgitter" auf Seite 22. | (f) |

ADJUSTMENT/REGLAGE/ABGLEICH

VOLTAGE CHECK TABLE

(X25-2850-01)

IC1

| | | | |
|---|----------|----|------|
| 1 | 3.5V | 9 | 0V |
| 2 | 1.6V | 10 | 5.0V |
| 3 | 0.3V | 11 | 0.3V |
| 4 | 5.0V | 12 | 1.6V |
| 5 | 0V | 13 | 3.5V |
| 6 | 5.0V | 14 | 5.0V |
| 7 | 0V (GND) | | |

IC2

| | | | |
|-----|----------|-----|------|
| 1~3 | 0V | 6 | 0.2V |
| 4 | 5.0V | 7~9 | 2.3V |
| 5 | 0V (GND) | | |

IC3

| | | | |
|-----|------|-------|------|
| 1 | 3.5V | 11 | 1.9V |
| 2~5 | 5.0V | 12 | 0V |
| 6~8 | 0V | 13,14 | 1.6V |
| 9 | 0.3V | 15 | 0V |
| 10 | 5.0V | 16 | 5.0V |

(X29-1780-00)

IC1

| | | | |
|-------|-------|----|-------|
| 1~12 | 0V | 21 | 5.0V |
| 13 | -5.0V | 22 | -5.6V |
| 14~18 | 0V | 23 | 5.0V |
| 19 | -2.0V | 24 | 5.0V |

IC2

| | | | |
|-----|-------|---|-------|
| 1 | -3.5V | 6 | -1.3V |
| 2,3 | 0V | 7 | -3.5V |
| 4 | -5.0V | 8 | 5.0V |

IC3

| | | | |
|------|-------|----|-------|
| 1 | 0.5V | 13 | -0.5V |
| 2 | -0.5V | 14 | 0V |
| 3~6 | 0V | 15 | -0.5V |
| 7 | -5.0V | 16 | 5.0V |
| 8~12 | 0V | | |

(X32-1100-11)

IC1

| | | | |
|-------|-------|-------|-------|
| 1~6 | 0V | 21 | 0.7V |
| 7~10 | 5.0V | 22 | 0V |
| 11~13 | 0V | 23 | 0.6V |
| 14 | -4.3V | 24,25 | 0V |
| 15 | 0.0V | 26 | 0.0V |
| 16 | 0V | 27 | -0.6V |
| 17 | -0.0V | 28~30 | 0V |
| 19,20 | 0V | | |

IC2

| | | | |
|---|-------|---|--------|
| 1 | 10.0V | 5 | -10.6V |
| 2 | -0.6V | 6 | 0V |
| 3 | 0.6V | 7 | 0V |
| 4 | 0V | 8 | 0V |

IC3

| | | | |
|-------|------|-------|------|
| 1~4 | 1.9V | 32 | 0V |
| 5 | 0V | 33 | 0V |
| 6 | 2.5V | 35,36 | 0V |
| 7,8 | 0V | 39 | 5.0V |
| 9 | 4.9V | 40 | 3.4V |
| 10~13 | 0V | 41~51 | 0.4V |
| 14~16 | 5.0V | 54 | 1.9V |
| 18,19 | 0.5V | 55 | 2.7V |
| 20 | 5.0V | 56,57 | 0V |
| 21 | 0.5V | 58,59 | 1.9V |
| 22~24 | 0V | 60 | 0V |
| 25~27 | 5.0V | 61,62 | 1.5V |
| 28 | 0V | 63 | 1.9V |
| 29 | 5.0V | 64 | 5.0V |
| 30,31 | 2.3V | | |

IC4

| | | | |
|-----|------|-------|--------|
| 1~3 | 1.9V | 9 | -39.0V |
| 4 | 1.5V | 11 | -15.0V |
| 5 | 1.9V | 12 | -22.0V |
| 6 | 2.7V | 13 | -25.0V |
| 7 | 0V | 14~16 | -22.0V |
| 8 | 6.1V | | |

IC5

| | | | |
|-----|------|-------|--------|
| 1,2 | 1.9V | 9 | -39.0V |
| 3 | 1.5V | 11,12 | -22.0V |
| 5,6 | 1.9V | 14 | -25.0V |
| 7 | 0V | 15,16 | -22.0V |
| 8 | 6.1V | | |

IC6, IC7

| | | | |
|-----|------|-------|--------|
| 1~6 | 0.4V | 9 | -39.0V |
| 7 | 0V | 11~16 | -38.0V |
| 8 | 6.1V | | |

IC8

| | | | |
|-------|------|-------|------|
| 1 | 2.4V | 15 | 0V |
| 2 | 0V | 16 | 5.0V |
| 3 | 2.5V | 17 | 0V |
| 4 | 5.0V | 18 | 0.5V |
| 5~7 | 0V | 19,20 | 0V |
| 8,9 | 0.0V | 21 | 0.0V |
| 10,11 | 0V | 22~25 | 0V |
| 12 | 0.0V | 26 | 0.5V |
| 13 | 1.6V | 27 | 0V |
| 14 | 0.4V | 28 | 0.0V |

IC10

| | | | |
|-------|------|----------|------|
| 1 | 5.0V | 13 | 2.0V |
| 2,3 | 3.4V | 16,19,20 | 5.0V |
| 4 | 2.4V | 27 | 0V |
| 5 | 0V | 30 | 0.0V |
| 17,18 | 0V | 33,34 | 0.0V |
| 19 | 0V | 35~46 | 0V |

IC11

| | | | |
|--------|-------|-------|-------|
| 1,2,14 | -5.0V | 16 | -1.9V |
| 3 | 2.4V | 17,18 | 0V |
| 4~6 | 5.0V | 20 | -5.0V |
| 7,8,12 | 2.4V | 21,22 | 0V |
| 9 | 2.1V | 23 | -3.8V |
| 10 | 0V | 24,25 | 1.4V |
| 11 | 0.6V | 26,27 | -1.3V |
| 13 | 0V | 28 | 0V |
| 15 | -3.8V | | |

IC12

| | | | |
|-----|-------|-------|------|
| 1~5 | 0V | 11 | 0.6V |
| 6~8 | -5.0V | 12~15 | 0V |
| 9 | 0.6V | 16 | 5.0V |
| 10 | -5.0V | | |

IC13

| | | | |
|---|--------|---|-------|
| 1 | -0.7V | 5 | -0.7V |
| 2 | 0V | 6 | -0.7V |
| 3 | 0V | 7 | -1.3V |
| 4 | -12.0V | 8 | 12.0V |

IC14

| | | | |
|-----|--------|-----|-------|
| 1 | -0.8V | 5,6 | -0.7V |
| 2,3 | 0V | 7 | -1.4V |
| 4 | -12.0V | 8 | 12.0V |

IC15, IC16

| | | | |
|-----|-------|---|--------|
| 1~3 | -0.7V | 4 | -12.0V |
| 5~7 | -0.7V | 8 | 12.0V |

IC17

| | | | |
|-----|-------|-----|-------|
| 1 | -3.4V | 5~7 | -0.7V |
| 2,3 | -0.7V | 8 | 12.0V |
| 4 | -2.0V | | |

IC18

| | | | |
|-----|-------|-----|-------|
| 1 | -3.6V | 5~7 | -0.7V |
| 2,3 | -0.7V | 8 | 12.0V |
| 4 | -2.0V | | |

IC19

| | | | |
|-----|-------|-------|------|
| 1~6 | 0V | 9~11 | 5.0V |
| 7 | -0.0V | 12,15 | 0V |
| 8 | 0V | 16 | 5.0V |

(X32-1120-01)

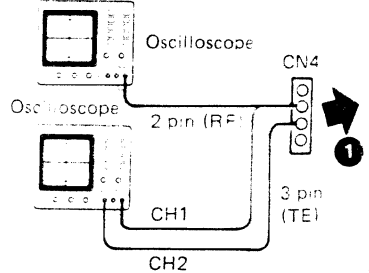
IC3

| | | | |
|-----|-------|---|------|
| 1 | 0.3V | 6 | 2.5V |
| 2,3 | 0V | 7 | 0V |
| 4 | -4.9V | 8 | 5.0V |
| 5 | 1.4V | | |

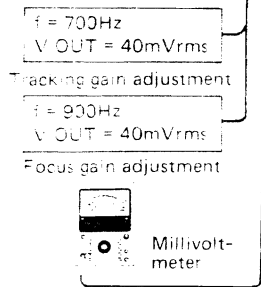
Remarks : These voltages are the values in STOP mode.

PC BOARD (COMPONENT SIDE VIEW)

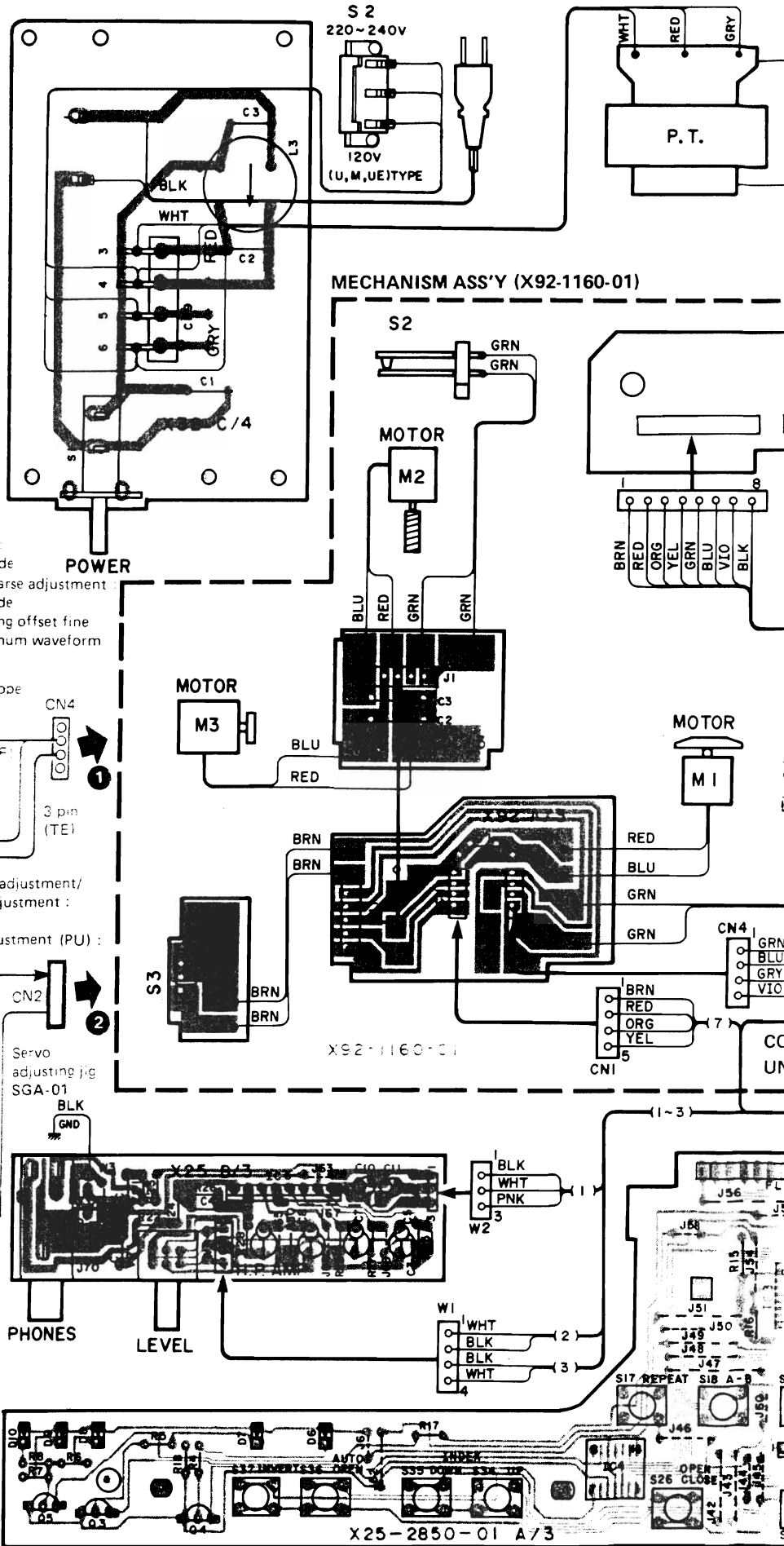
- (e) Tangential setting :
 Maximum amplitude
 Focusing offset coarse adjustment :
 Maximum amplitude
 Tangential, Focusing offset fine
 adjustment : Optimum waveform



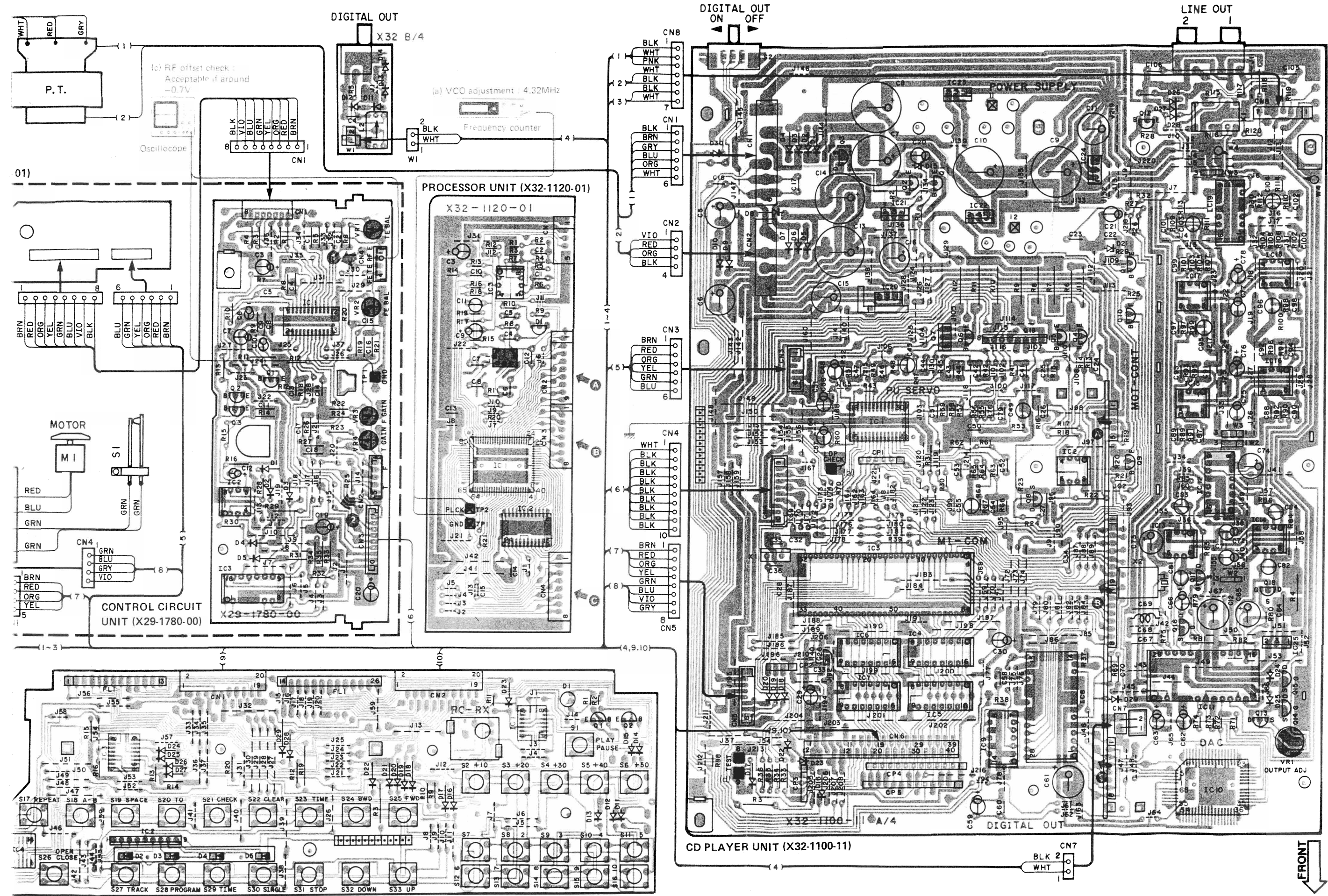
- (f) T. error balance coarse adjustment /
 T. error balance fine adjustment :
 Refer to Photo. 5
 Diffraction grating adjustment (PU) :
 Refer to Fig. 1



- (g) Focus gain adjustment :
 40mVrms
 Tracking gain adjustment
 40mVrms

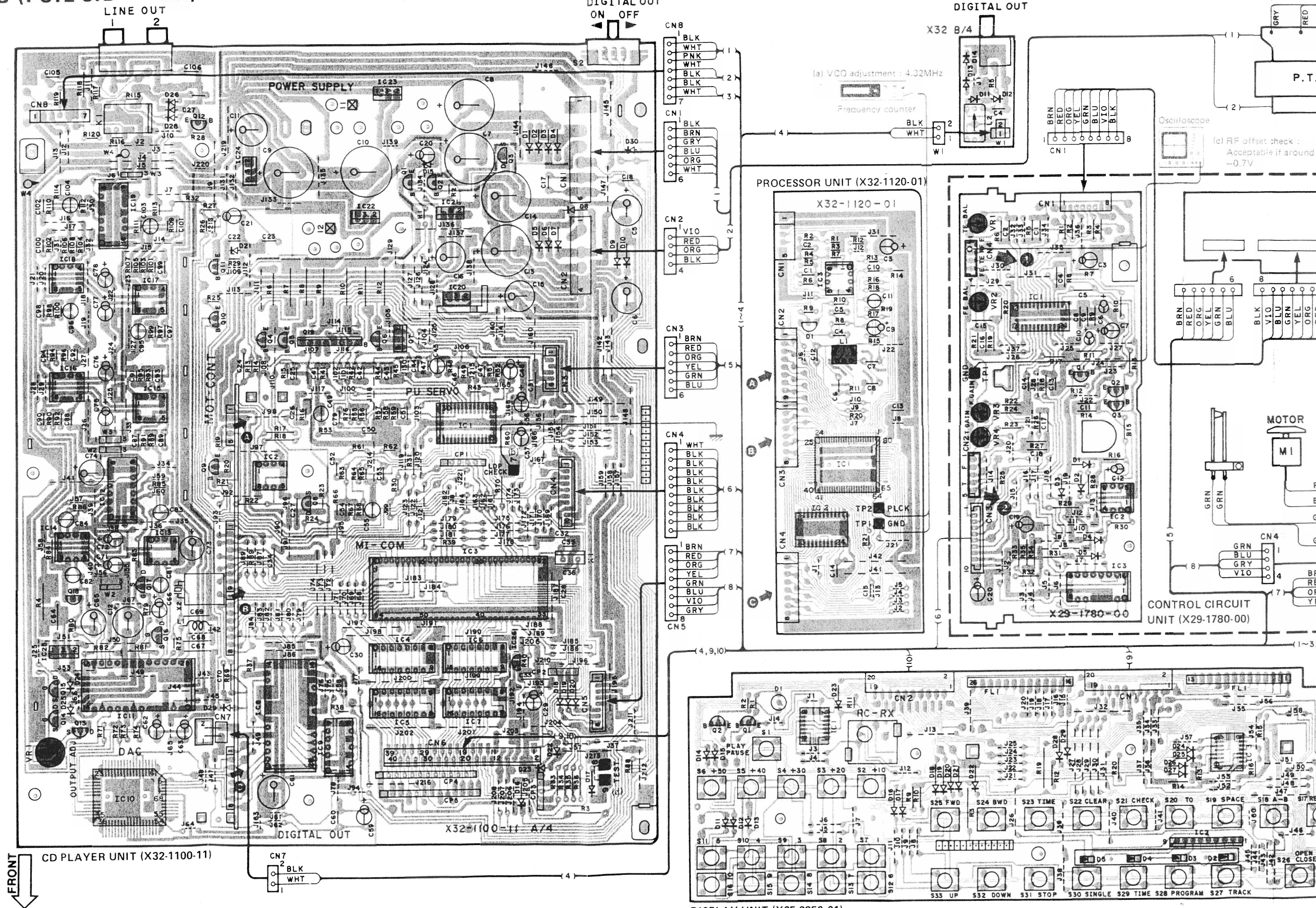


DISPLAY UNIT (X25-2850-01)



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

PC BOARD (FOIL SIDE VIEW)



FRONT

CD PLAYER UNIT (X32-1100-11)

CN7
1 WHT
2 BLK

DIGITAL OUT
ON OFF

CN8
1 BLK
2 WHT
3 PNK
4 BLK
5 BLK
6 WHT

CN1
1 BLK
2 BRN
3 GRY
4 BLU
5 ORG
6 WHT

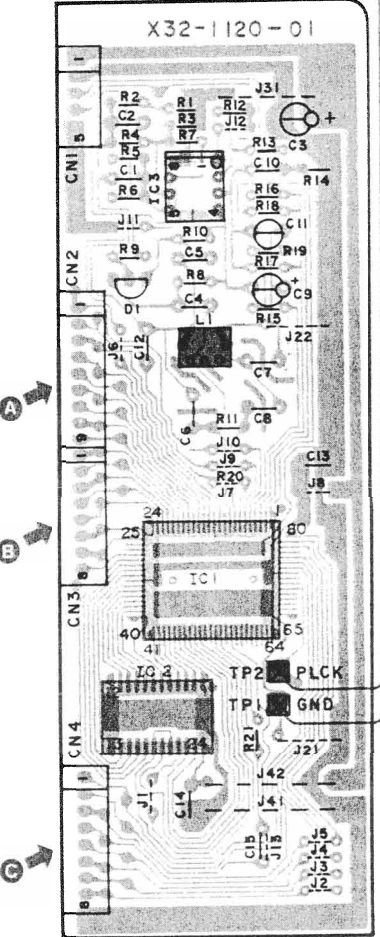
CN2
1 VIO
2 RED
3 ORG
4 BLK

CN3
1 BRN
2 RED
3 ORG
4 YEL
5 GRN
6 BLU

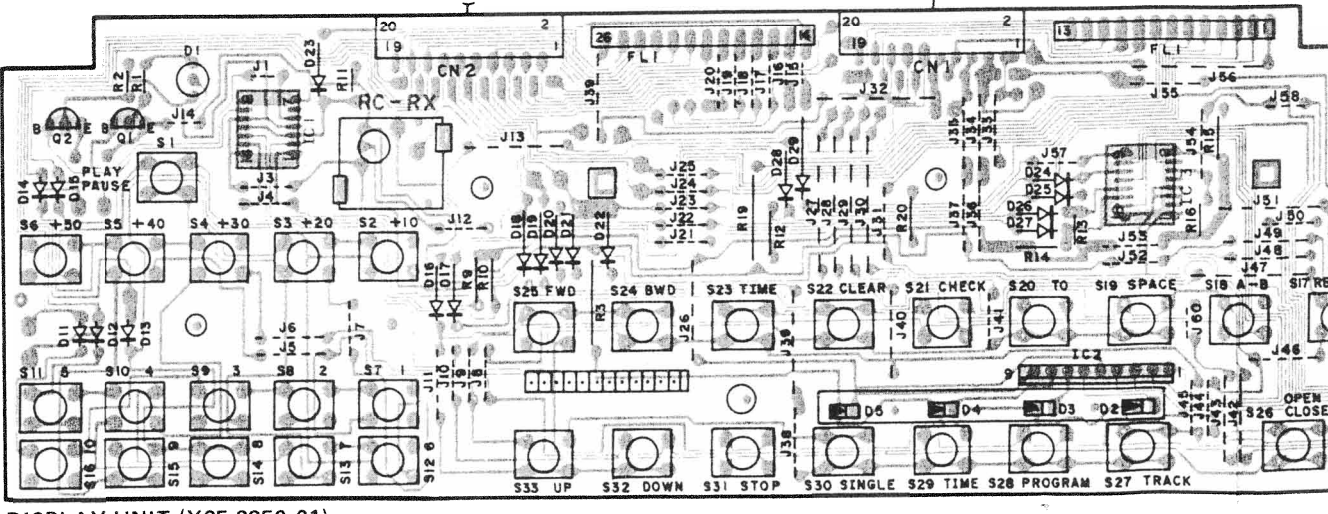
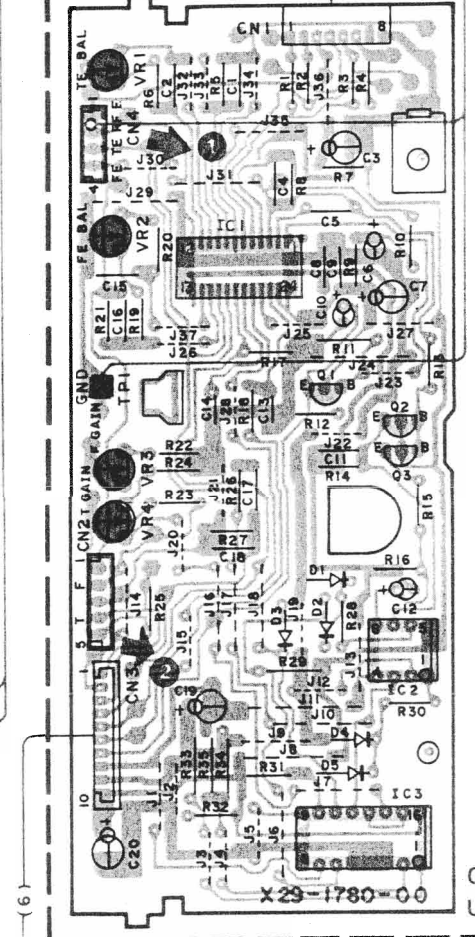
CN4
1 WHT
2 BLK
3 BLK
4 BLK
5 BLK
6 BLK
7 BLK
8 BLK

CN5
1 BRN
2 RED
3 ORG
4 YEL
5 GRN
6 BLU
7 VIO
8 GRY

PROCESSOR UNIT (X32-1120-01)

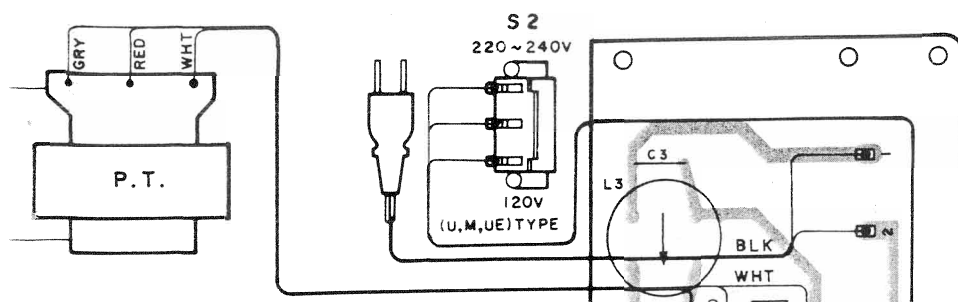


CONTROL CIRCUIT UNIT (X29-1780-00)



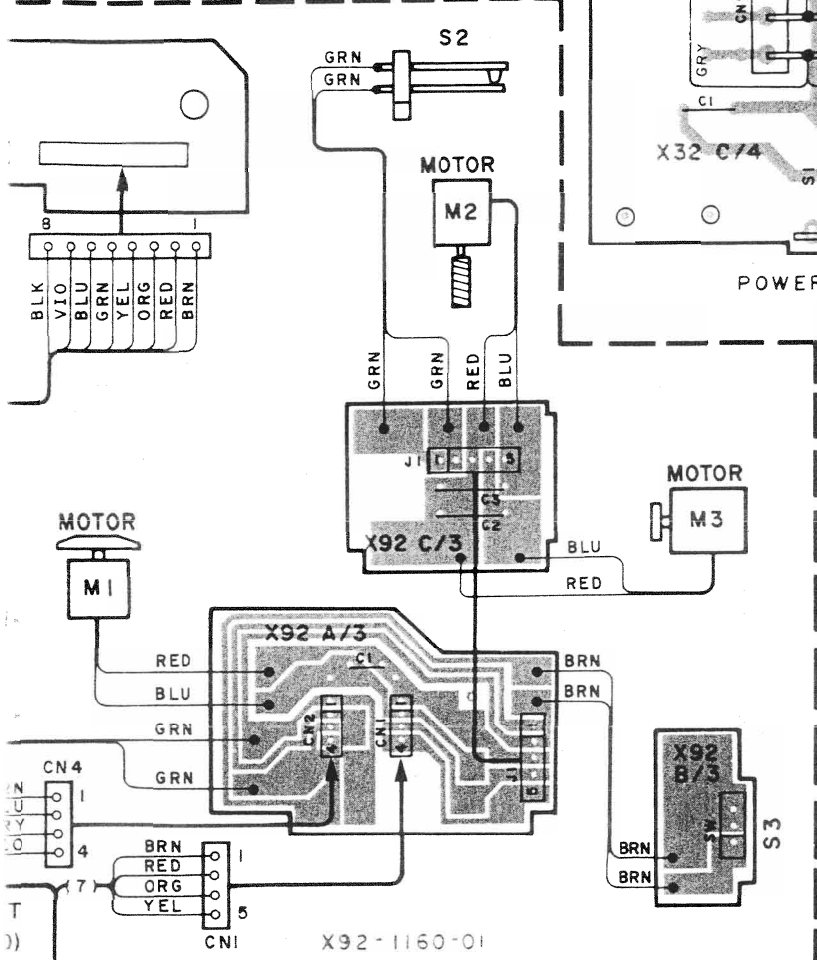
DISPLAY UNIT (X25-2850-01)

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

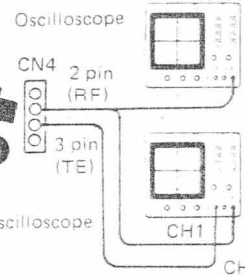


Reset check :
 Servo if around

MECHANISM ASS'Y (X92-1160-01)



- (e) Tangential setting :
 Maximum amplitude
 Focusing offset coarse adjustment :
 Maximum amplitude
 Tangential, Focusing offset fine
 adjustment : Optimum waveform



- (f) T.error balance coarse adjustment/
 T.error balance fine adjustment :
 Refer to Photo. 5
 Diffraction grating adjustment (PU) :
 Refer to Fig. 1

f = 700Hz
 V OUT = 40mVrms

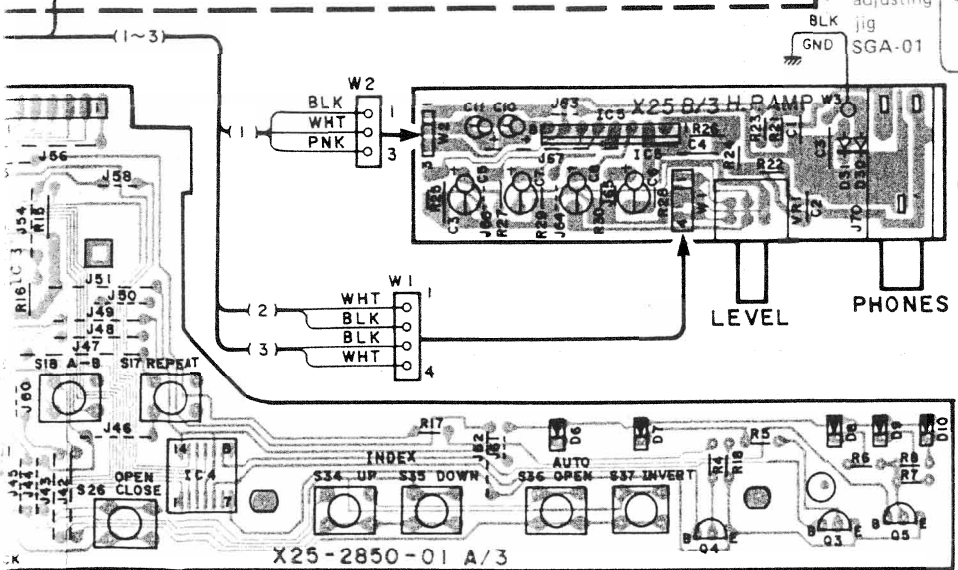
Tracking gain adjustment

f = 900Hz
 V OUT = 40mVrms

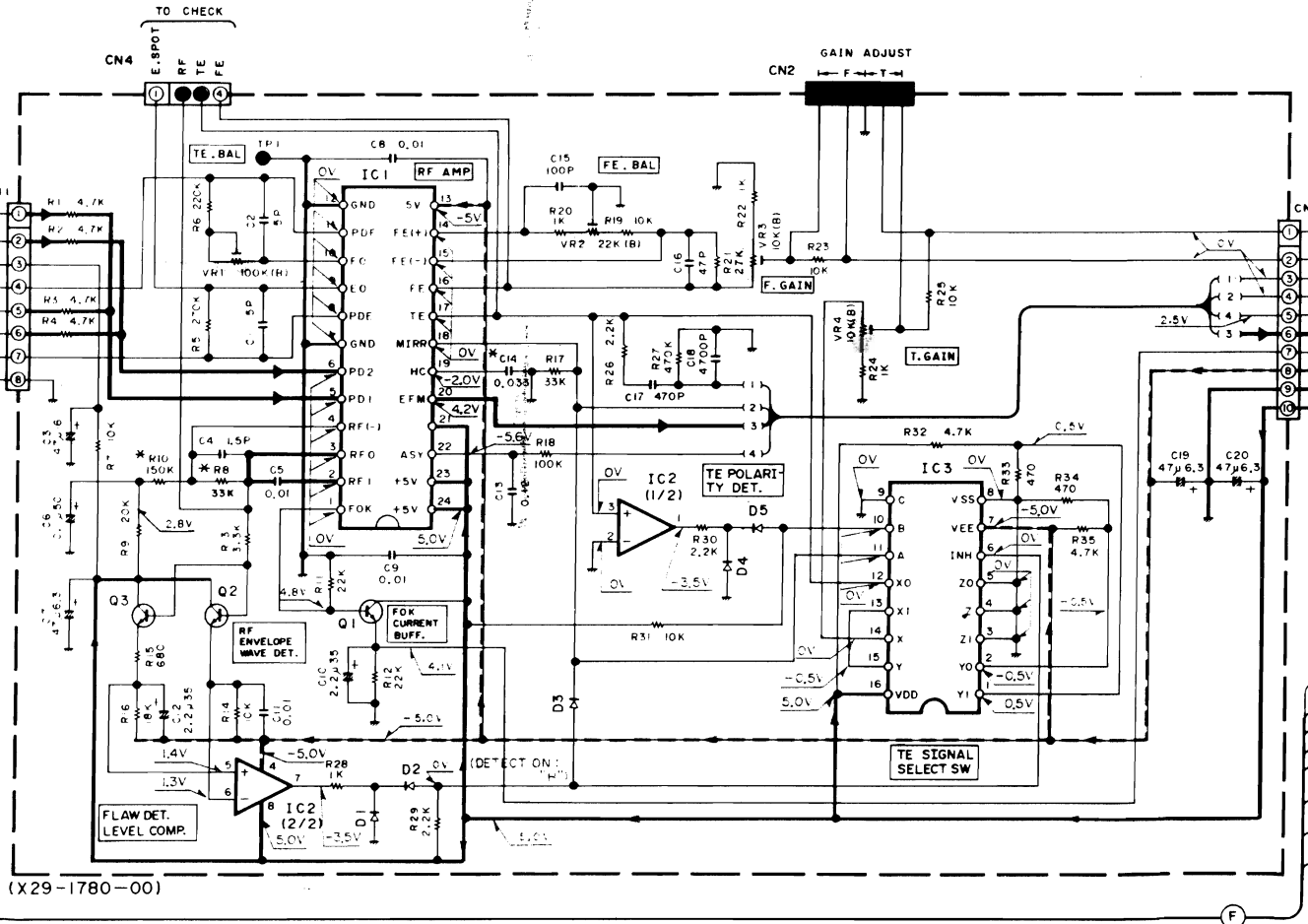
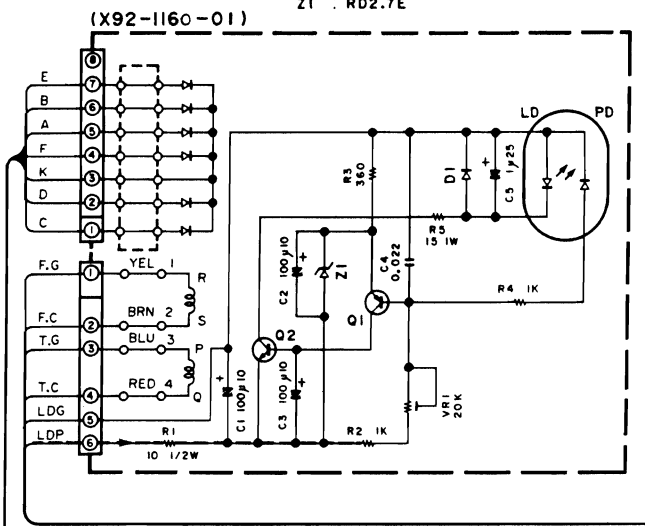
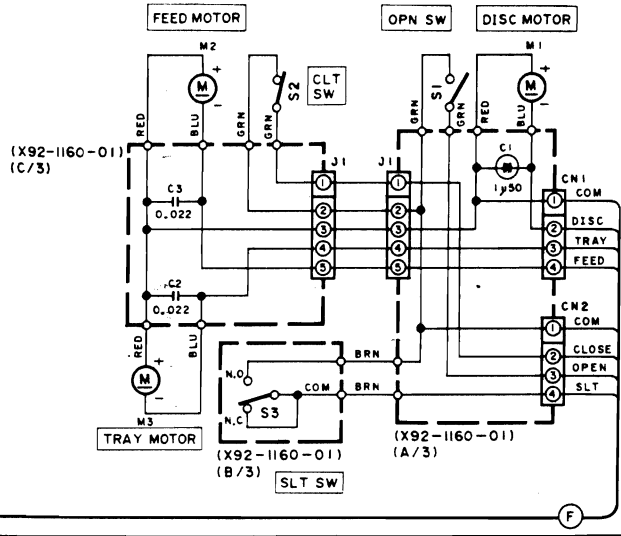
Focus gain adjustment

Millivolt-
 meter

- (g) Focus gain adjustment :
 40mVrms
 Tracking gain adjustment :
 40mVrms



Q1 : 2SA1115
 Q2 : 2SC2673
 D1 : 1S2475
 Z1 : RD2.7E



IC1 CX-20109
 IC2 M5218P
 IC3 μ PD4053BC or BU4053B
 Q1-3 2SC945(A) (Q, P)
 D1-5 1SS176 or 1SS133

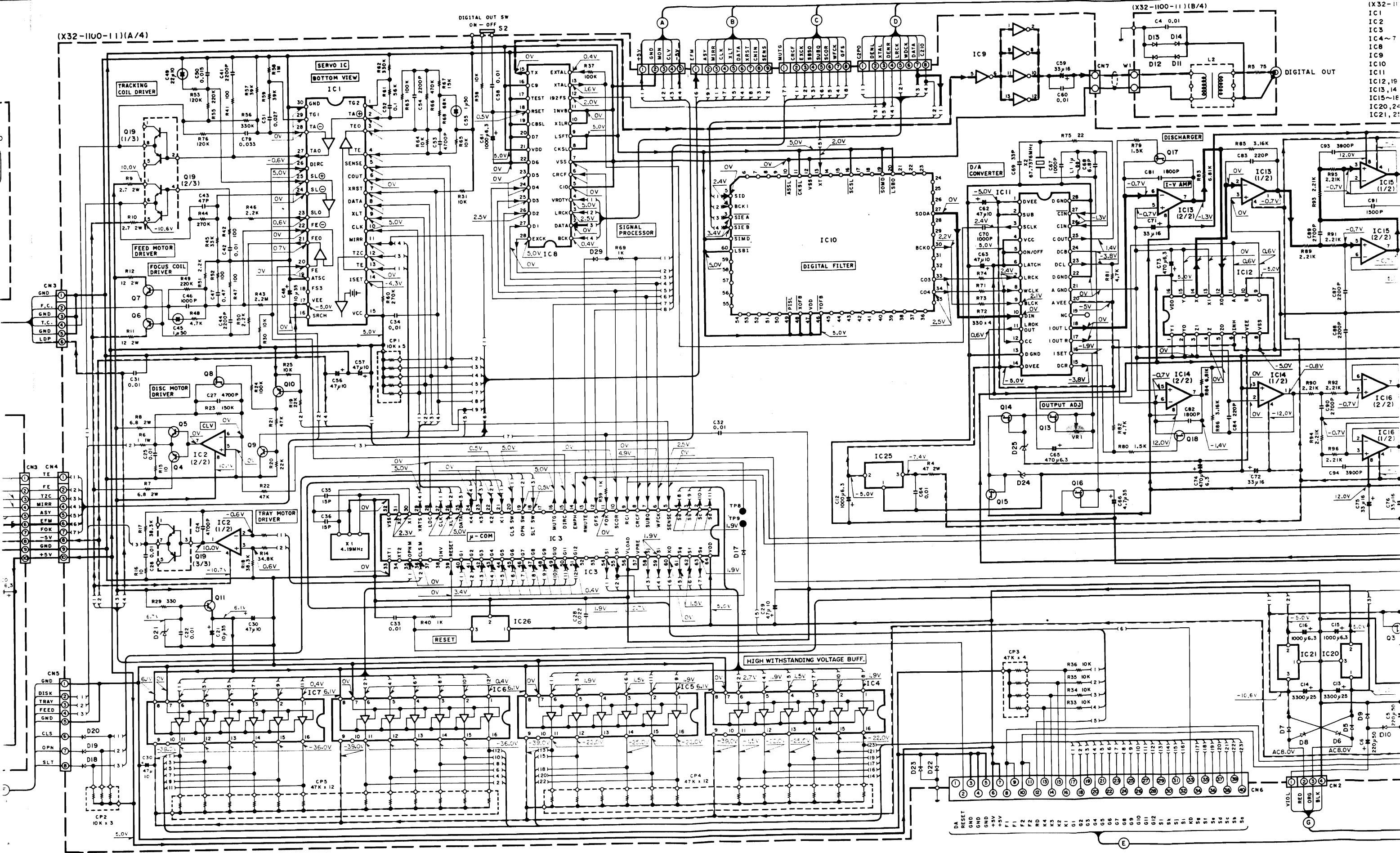
***Note (X29-1780-00)**

After serial No. 6ZL80001 : R10 150k Ω \rightarrow Delete
 R8 33k Ω \rightarrow 22k Ω C14 0.033 μ F \rightarrow 1000pF

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten nur geringfügig.

Remarks : These voltages are the values in STOP mode.

(X32-1100-11)(A/4)

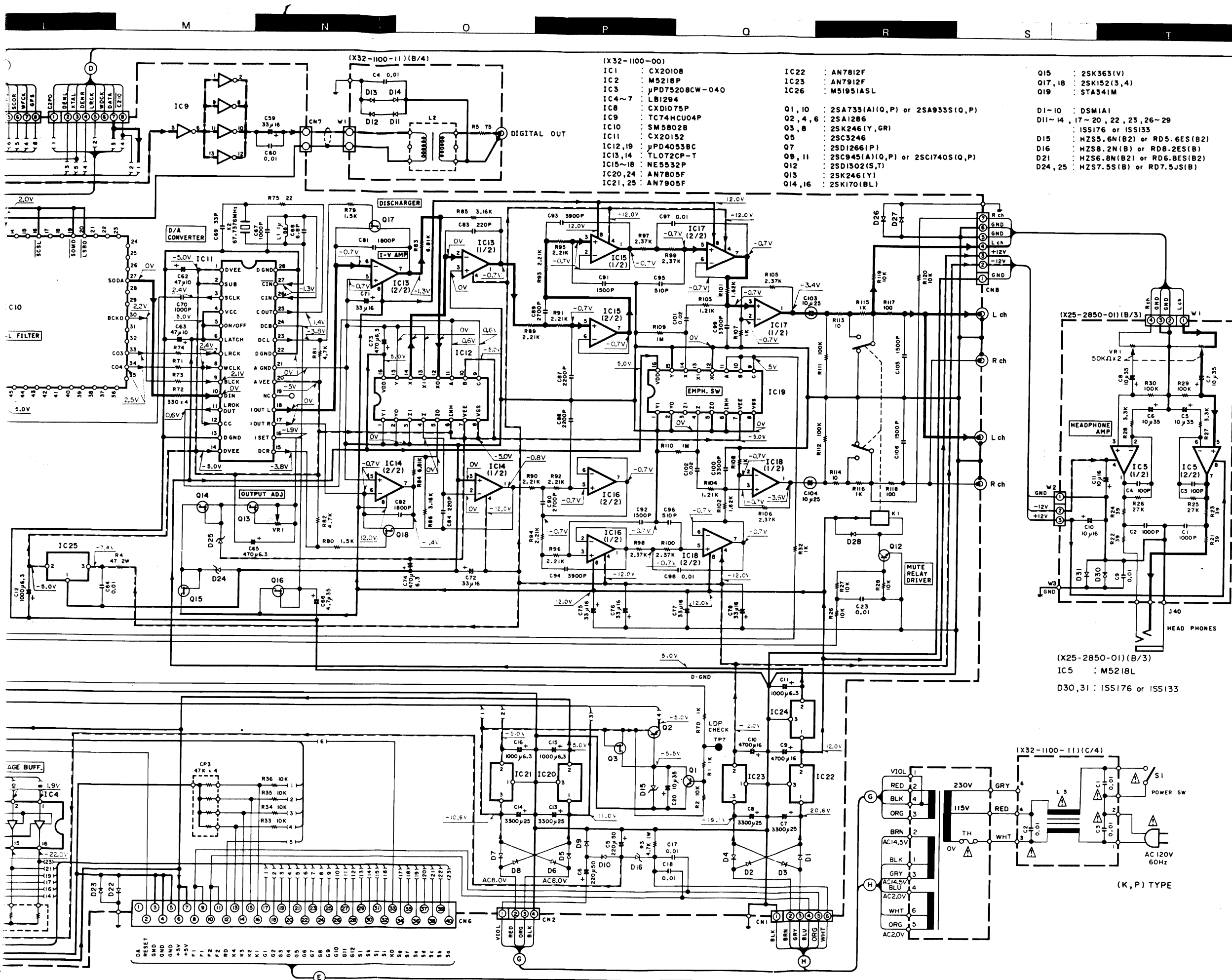


(X32-1100-11)(B/4)

IC1
IC2
IC3
IC4~7
IC8
IC9
IC10
IC11
IC12,19
IC13,14
IC15~18
IC20,24
IC21,25

ben mit
Dabei
chieden
en u.U.

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.

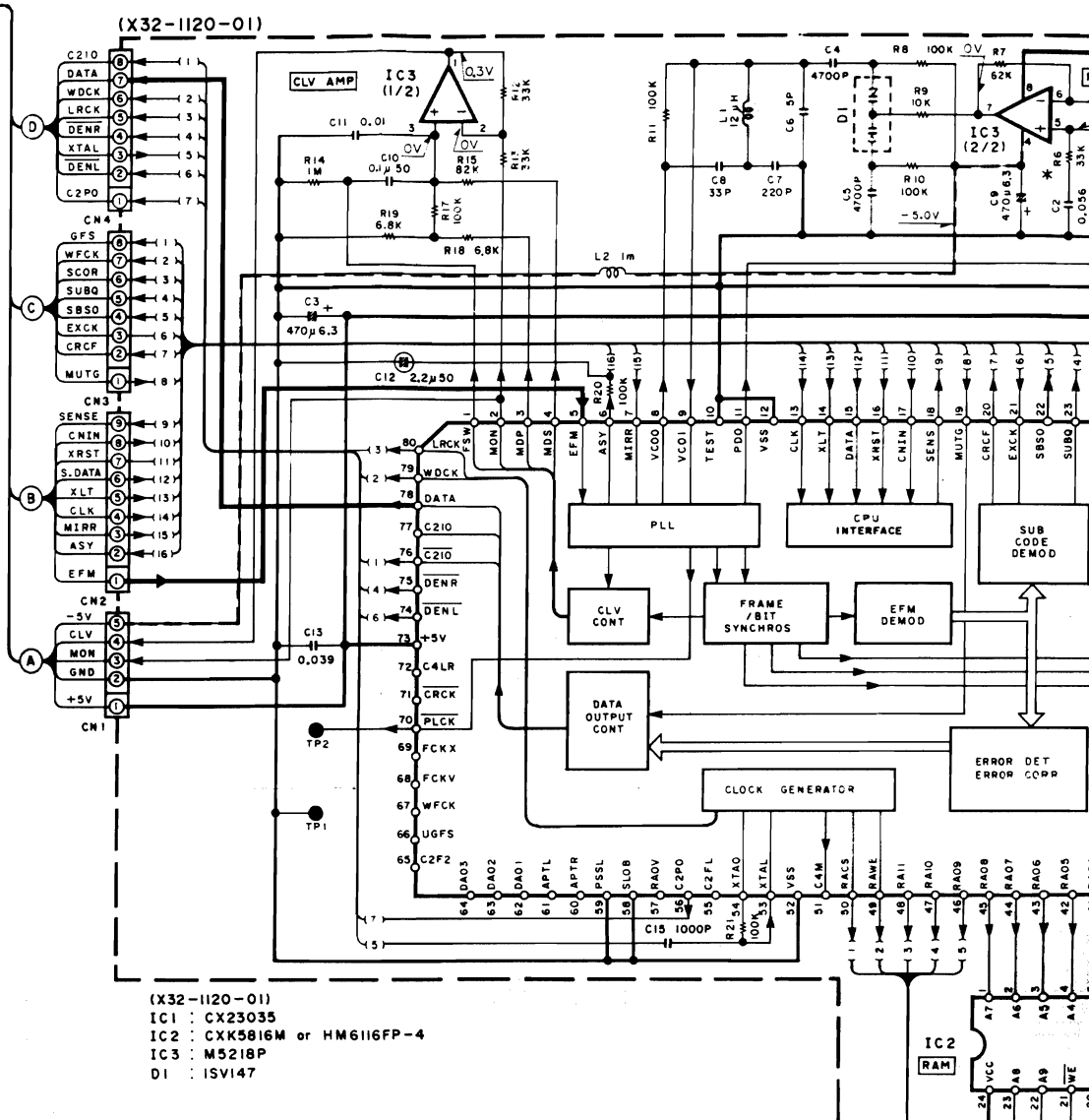
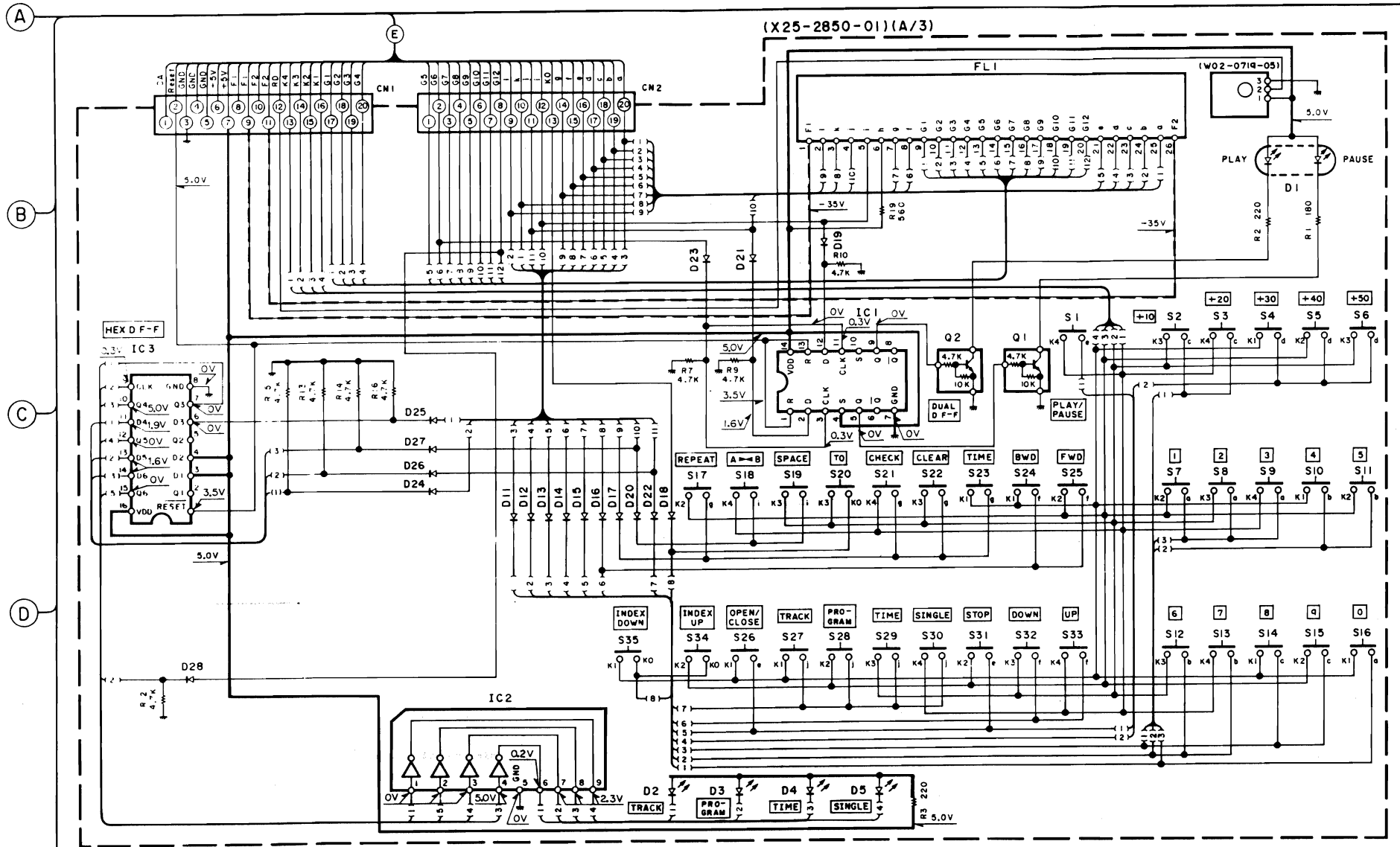


- | | | |
|----------------|------------|---------|
| 2SA1286 | 2SC945(A) | 2SD1266 |
| 2SA733 | 2SD1302 | |
| 2SC3246 | | |
| 2SA933S | 2SK246 | |
| 2SC1740S | | |
| 2SK170 | 2SK152 | |
| 2SK363 | | |
| NE5532P | TC74HCU04P | |
| TL072CP-T | | |
| LB1294 | BU4053B | |
| | µPD4053BC | |
| CXD1075P | M5218L | |
| | STA341M | |
| AN7805F | M51951ASL | |
| AN7812F | | |
| AN7905F | CX20152 | |
| AN7912F | | |
| CX20109 | CX20108 | |
| µPD75208CW-040 | SM5802B | |

DP-1100D(K) (1/2)

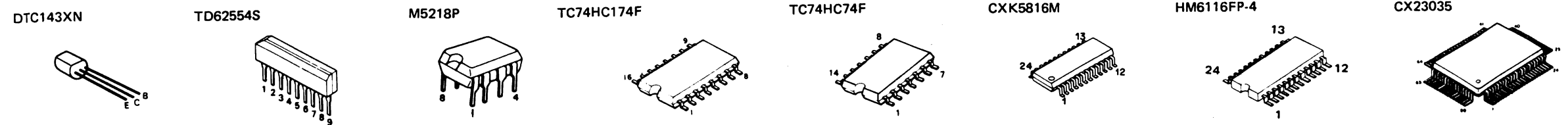
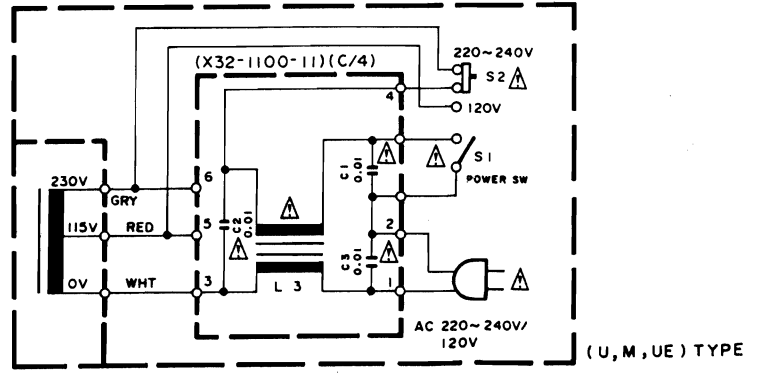
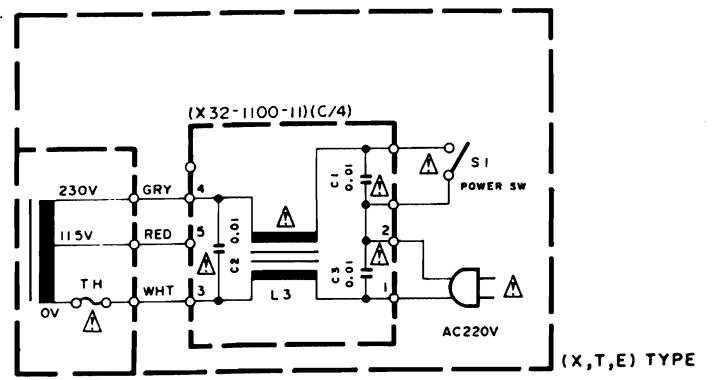
DP-1100D

KENWOOD



- (X32-1120-01)
 IC1 : CX23035
 IC2 : CXK5816M or HM6116FP-4
 IC3 : M5218P
 D1 : ISV147
- (X25-2850-01)(A/3)
 IC1 : TC74HC74F
 IC2 : TD62554S
 IC3 : TC74HC174F
 Q1, 2 : DTC143XN
 D1 : B30-1172-05
 D2-5 : B30-1012-05
 D11-28 : ISS176 or ISS133
 FL1 : CP5294GR

*Note (X32-1120-01)
 After serial No. 6ZL80001 :
 R6 33kΩ → 12kΩ



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

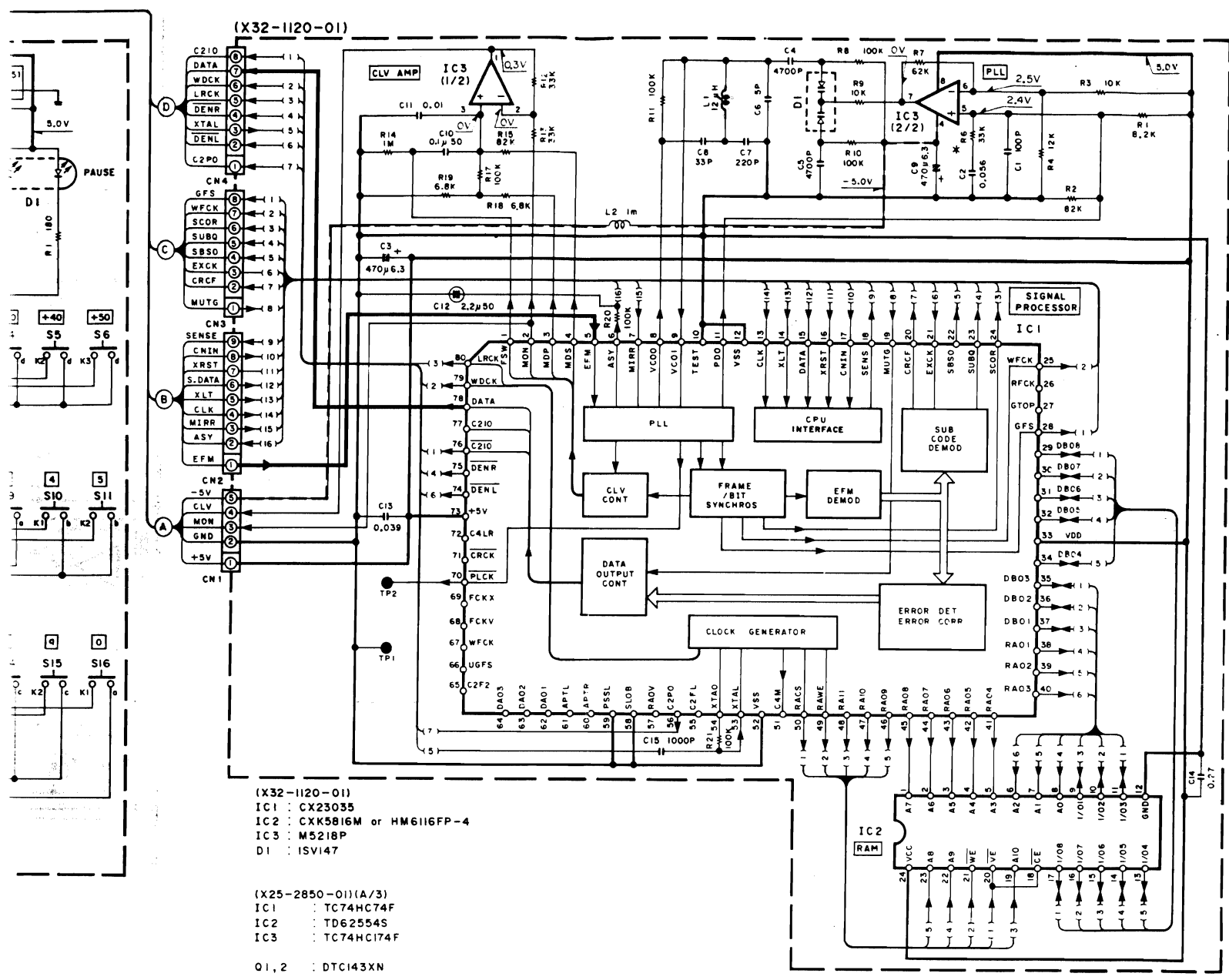
• Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

• Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

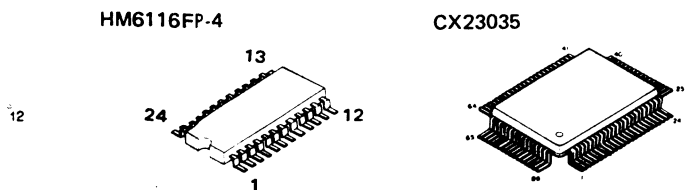
Remarks : These voltages are the values in STOP mode.



EXPLODED VIEW (MECHANISM)



***Note (X32-1120-01)**
 After serial No. 6ZL80001 :
 R6 33kΩ → 12kΩ



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.

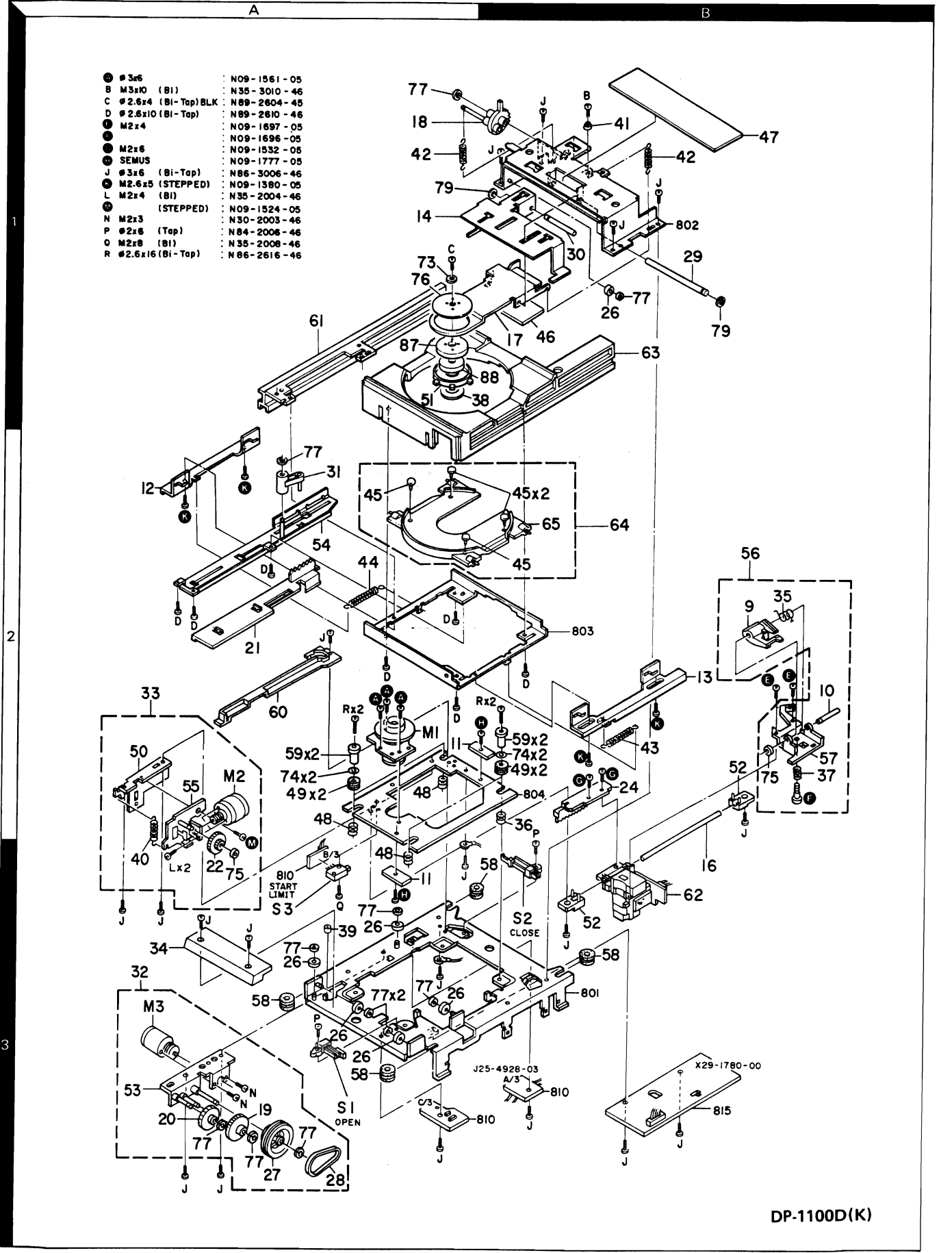
measured with a high impedance instrument. Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten geringfügig.

• Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

• Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten geringfügig.

DP-1100D

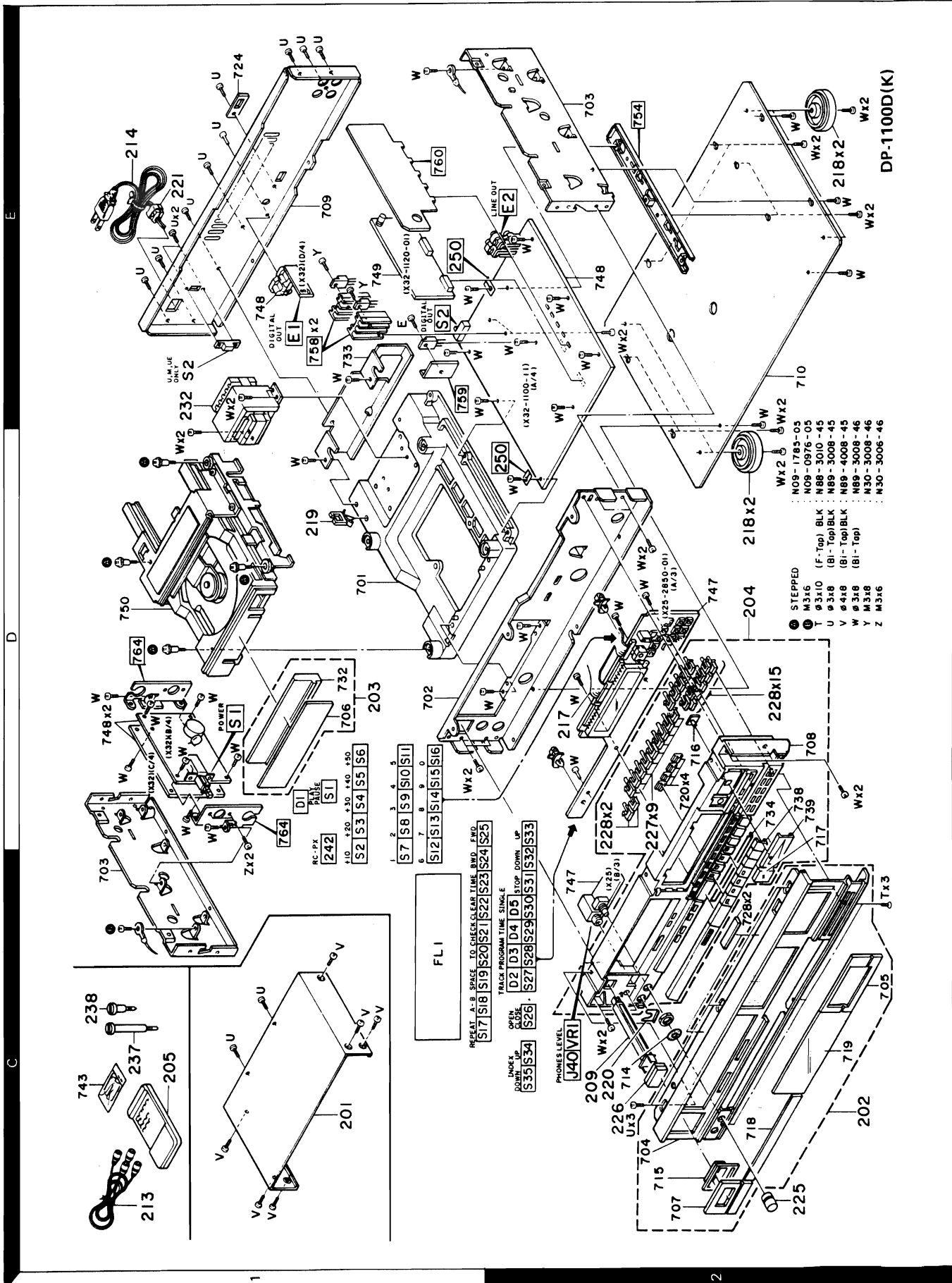
KENWOOD



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

DP-1100D

EXPLODED VIEW (UNIT)



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PARTS LIST

* New Parts

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| 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 |
|-------------------------------------|---------------|----------------|-------------------|----------------------------|-------------------------|--------------------|
| 237 | 1C | | N09-1691-05 | STEPPED SCREW (LONG) | | |
| 238 | 1C | | N09-1735-05 | STEPPED SCREW (SHORT) | | |
| A | 1D | | N09-1785-05 | STEPPED SCREW (MECHA) | | |
| B | 1C | | N09-0976-05 | TAPTITE SCREW (M3X6) | | |
| Δ S2 | 1E | | S31-2083-05 | SLIDE SWITCH (POWER TYPE) | UMUE | |
| DISPLAY UNIT (X25-1850-01) | | | | | | |
| D1 | 1D | * | B30-1172-05 | LED (PLAY/PAUSE) | | |
| D2 | -5 | | B30-1012-05 | LED(SLP-981C-50) TRACK ETC | | |
| C1 | .2 | | CF92FV1H102J | MF 1000PF J | | |
| C3 | .4 | | C91-0745-05 | CERAMIC 100PF K | | |
| C5 | -8 | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C9 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C10 | .11 | | CE04JW1C100M | ELECTRO 10UF 16WV | | |
| C12 | | | CK45FB1H102K | CERAMIC 0.010UF K | | |
| J40 | 2C | | E11-0127-05 | PHONE JACK (3P)PHONES | | |
| VR1 | 2C | * | R10-4027-05 | POTENTIOMETER (LEVEL) | | |
| S1 | -35 | | S40-1064-05 | PUSH SWITCH | | |
| D11 | -15 | | 1SS133 | DIODE | | |
| D11 | -15 | | 1SS176 | DIODE | | |
| D16 | -28 | | 1SS133 | DIODE | | |
| D16 | -28 | | 1SS176 | DIODE | | |
| D30 | .31 | | 1SS133 | DIODE | | |
| D30 | .31 | | 1SS176 | DIODE | | |
| FL1 | | * | CP5294GR | FLUORESCENT INDICATOR TUBE | | |
| IC1 | | * | TC74HC74F | IC(D-FLIP FL0P) | | |
| IC2 | | * | TD62554S | IC(4CH TRANSISTOR ARRAY) | | |
| IC3 | | * | TC74HC174F | IC(D-FLIP FL0P) | | |
| IC5 | | * | M5218L | IC(OP AMP X2) | | |
| Q1 | .2 | * | DTC143XN | DIGITAL TRANSISTOR | | |
| 242 | 1C | | W02-0719-05 | ELECTRIC CIRCUIT MODULE | | |
| CD PLAYER UNIT (X32-1100-11) | | | | | | |
| Δ C1 | -3 | | C91-0647-05 | CERAMIC 0.01UF P | | |
| C4 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C5 | .6 | | CE04KW1H221M | ELECTRO 220UF 50WV | | |
| C7 | .8 | | CE04KW1E332M | ELECTRO 3300UF 25WV | | |
| C9 | .10 | | CE04KW1C472M | ELECTRO 4700UF 16WV | | |
| C11 | .12 | | CE04KW0J102M | ELECTRO 1000UF 6.3WV | | |
| C13 | .14 | | CE04KW1E332M | ELECTRO 3300UF 25WV | | |
| C15 | .16 | | CE04KW0J102M | ELECTRO 1000UF 6.3WV | | |
| C17 | .18 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C20 | .21 | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C22 | .23 | | CK45FF1H103Z | CERAMIC 0.10UF Z | | |
| C24 | | | C91-0757-05 | CERAMIC 0.001UF K | | |
| C25 | .26 | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C27 | | | C91-0765-05 | CERAMIC 0.0047UF M | | |
| C28 | | | C91-0085-05 | CERAMIC 0.022UF N | | |
| C29 | .30 | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| C31 | -34 | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C35 | .36 | | CC45FCH1H150J | CERAMIC 15PF J | | |
| C41 | | | CK45FB1H222K | CERAMIC 0.0022UF K | | |

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| 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-1100D | | | | | | |
| 201 | 1C | * | A01-1514-02 | METALLIC CABINET | | |
| 202 | 2C | * | A20-5013-02 | PANEL ASSY | | |
| 203 | 1D | * | A21-0769-04 | DRESSING PANEL ASSY(DISK) | | |
| 204 | 2D | * | A22-0600-01 | SUB PANEL ASSY | | |
| 205 | 1C | | A70-0146-05 | REMOTE CONTROLLER ASSY | | |
| - | | | B46-0092-03 | WARRANTY CARD | | K |
| - | | | B46-0094-03 | WARRANTY CARD | | UUE |
| - | | | B46-0095-03 | WARRANTY CARD | | UUE |
| - | | | B46-0096-13 | WARRANTY CARD | | X |
| - | | | B46-0121-03 | WARRANTY CARD | | P |
| - | | | B46-0122-13 | WARRANTY CARD | | E |
| - | | | B46-0143-03 | WARRANTY CARD | | T |
| - | | * | B50-6584-10 | INSTRUCTION MANUAL(ENGLISH) | | KPUMUE |
| - | | * | B50-6584-10 | INSTRUCTION MANUAL(ENGLISH) | | XE |
| - | | * | B50-6585-10 | INSTRUCTION MANUAL(FRENCH) | | PMXE |
| - | | * | B50-6586-10 | INSTRUCTION MANUAL(SPANISH) | | M |
| - | | * | B50-6587-00 | INSTRUCTION MANUAL(ENGLISH) | | T |
| - | | * | B50-6588-10 | INSTRUCTION MANUAL(G.D.I) | | E |
| - | | | B58-0223-04 | CAUTION CARD (PRE-SET 120V) | | U |
| - | | | B58-0269-04 | CAUTION CARD | | K |
| - | | | B58-0400-04 | CAUTION CARD | | |
| - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | | UE |
| - | | | B59-0092-00 | SERVICE DIRECTORY | | UUE |
| 209 | 2C | | D21-1157-04 | EXTENSION SHAFT | | |
| Δ 213 | 1C | | E30-0505-05 | AUDIO CABD | | |
| Δ 214 | 1E | | E30-0459-05 | AC POWER CABD | | E |
| Δ 214 | 1E | | E30-0780-05 | AC POWER CABD | | KP |
| Δ 214 | 1E | | E30-0812-05 | AC POWER CABD | | UMUE |
| Δ 214 | 1E | | E30-1341-05 | AC POWER CABD | | X |
| Δ 214 | 1E | | E30-1416-05 | AC POWER CABD | | T |
| - | | * | H01-7411-04 | ITEM CARTON CASE | | |
| - | | * | H10-3383-02 | POLYSTYRENE FOAMED FIXTURE(L) | | |
| - | | * | H10-3384-02 | POLYSTYRENE FOAMED FIXTURE(R) | | |
| - | | | H20-0417-04 | PROTECTION COVER(460X370X360) | | M |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | | H25-0289-04 | PROTECTION BAG (850X400X0.05) | | KPUUEX |
| - | | | H25-0289-04 | PROTECTION BAG (850X400X0.05) | | TE |
| 217 | 2D | * | J25-4925-03 | PRINTED WIRING BOARD(FLEXIBLE) | | |
| 218 | 2D+2E | * | J02-0188-15 | INSULATOR | | |
| 219 | 1D | * | J19-2808-05 | HOLDER | | |
| 220 | 2C | | J21-3326-05 | JACK MOUNTING HARDWARE | | |
| Δ 221 | 1E | | J42-0083-05 | POWER CABD BUSHING | | |
| - | | | J61-0033-05 | WIRE BAND | | |
| - | | | J61-0070-05 | WIRE BAND | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 225 | 2C | | K29-1641-04 | KN0B (LEVEL) | | |
| 226 | 2C | | K29-2516-04 | KN0B(BUTTON) POWER | | |
| 227 | 2D | * | K29-2546-04 | KN0B(BUTTON) | | |
| 228 | 2D | * | K29-2581-04 | KN0B(BUTTON) CHANNEL, ETC | | |
| Δ 232 | 1E | * | L01-7414-05 | POWER TRANSFORMER | | |

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DP-1100D DP-1100D

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|------------------|---------------|------------------|-------------------|-------------------------------|------------------------|--------------------|
| C42 | | | Ck45FF1H103Z | CERAMIC 0.010UF Z | | |
| C43 | | | Ck45FSL1H470J | CERAMIC 47PF J | | |
| C44 | | | Ck45FB1H222K | CERAMIC 0.0022UF K | | |
| C45 | | | C90-1349-05 | NP-ELEC 1UF 50WV | | |
| C46 | | | CF92FV1H102J | MF 1000PF J | | |
| C47 | | | CF92FV1H474J | MF 0.47UF J | | |
| C48 | | | CE04KW1V100M | ELECTR0 10UF 35WV | | |
| C49 | | | C90-1333-05 | NP-ELEC 10UF 25WV | | |
| C50 | | | CF92FV1H153J | MF 0.015UF J | | |
| C51 | | | CF92FV1H273J | MF 0.027UF J | | |
| C52 | | | CF92FV1H104J | MF 0.10UF J | | |
| C53 | | | CF92FV1H472J | MF 4700PF J | | |
| C54 | | | CF92FV1H222J | MF 2200PF J | | |
| C55 | | | C90-1349-05 | NP-ELEC 1UF 50WV | | |
| C56 ,57 | | | CE04KW1A470M | ELECTR0 47UF 10WV | | |
| C58 | | | Ck45FF1H103Z | CERAMIC 0.010UF Z | | |
| C59 | | | CE04KW1C330M | ELECTR0 33UF 16WV | | |
| C60 | | | Ck45FF1H103Z | CERAMIC 0.010UF Z | | |
| C61 | | | CE04KW0J102M | ELECTR0 1000UF 6.3WV | | |
| C62 ,63 | | | CE04KW1A470M | ELECTR0 47UF 10WV | | |
| C64 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C65 | | | CE04KW0J471M | ELECTR0 470UF 6.3WV | | |
| C66 | | | CE04KW1V4R7M | ELECTR0 4.7UF 35WV | | |
| C67 | | | C91-0757-05 | CERAMIC 0.001UF K | | |
| C68 | | | C91-0719-05 | CERAMIC 6.8PF K | | |
| C69 | | | C91-0733-05 | CERAMIC 33PF J | | |
| C70 | | | C91-0757-05 | CERAMIC 0.001UF K | | |
| C71 ,72 | | | CE04KW1C330M | ELECTR0 33UF 16WV | | |
| C73 ,74 | | | CE04KW0J471M | ELECTR0 470UF 6.3WV | | |
| C75 -78 | | | CE04KW1C330M | ELECTR0 33UF 16WV | | |
| C79 | | | CF92FV1H333J | MF 0.033UF J | | |
| C81 ,82 | | | C009FS1H1B2JZS | P0LYSTY 1800PF J | | |
| C83 ,84 | | | C009FS1H221JZS | P0LYSTY 2200PF J | | |
| C87 ,88 | | | C093HP2A222J | MYLAR 2200PF J | | |
| C89 ,90 | | * | C093HP2A272J | MYLAR 2700PF J | | |
| C91 ,92 | | | C093HP2A152J | MYLAR 1500PF J | | |
| C93 ,94 | | | C093HP2A392J | MYLAR 3900PF J | | |
| C95 ,96 | | | C009FS1H511JZS | P0LYSTY 510PF J | | |
| C97 ,98 | | | C093HP2A103J | MYLAR 0.010UF J | | |
| C99 ,100 | | | C093HP2A332J | MYLAR 3300PF J | | |
| C101 ,102 | | * | C093HP2A203J | MYLAR 0.020UF J | | |
| C103 ,104 | | | C90-1396-05 | NP-ELEC 33UF 10WV | | |
| C105 ,106 | | | C093HP2A152J | MYLAR 1500PF J | | |
| 250 | 2D,1E | | E23-0149-05 | TERMINAL | | |
| E1 | 1E | | E13-0130-05 | PH0N0 JACK (DIGITAL 0UT) | | |
| E2 | 2E | | E13-0446-05 | PH0N0 JACK(4P) LINE 0UT | | |
| L1 | | * | L40-1092-14 | SMALL FIXED INDUCT0R(1.0UH.M) | | |
| L2 | | | L39-0142-05 | MATCHING COIL | | |
| L3 | | | L79-0733-05 | LINE FILTER | | |
| X1 | | | L78-0209-05 | RESONAT0R (4.194MHZ) | | |
| X1 | | | L78-0218-05 | RESONAT0R | | |
| X2 | | | L77-1116-05 | CRYSTAL RESONAT0R | | |
| CP1 | | | R90-0228-05 | MULTI-COMP 10KX5 J 1/6W | | |

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|------------------|---------------|------------------|-------------------|-------------------------------|------------------------|--------------------|
| CP2 | | | R90-0290-05 | MULTI-COMP 10KX3 J 1/6W | | |
| CP3 | | | R90-0202-05 | MULTI-COMP 47KX4 J 1/6W | | |
| CP4 ,5 | | | R90-0295-05 | MULTI-COMP 47KX12 J 1/6W | | |
| R3 | | | RS14KB3A472J | FL-PR00F RS 4.7K J 1W | | |
| R4 | | | RS14KB3D470J | FL-PR00F RS 47 J 2W | | |
| R6 | | | RS14KB3A1R0J | FL-PR00F RS 1.0 J 1W | | |
| R7 ,8 | | * | RS14KB3D6R8J | FL-PR00F RS 6.8 J 2W | | |
| R9 ,10 | | * | RS14KB3D2R7J | FL-PR00F RS 2.7 J 2W | | |
| R11 ,12 | | | RS14KB3D120J | FL-PR00F RS 12 J 2W | | |
| R13 ,14 | | | RN14BK2C3482F | RN 34.8K F 1/6W | | |
| R17 ,18 | | * | RN14BK2C3832F | RN 38.3K F 1/6W | | |
| R83 ,84 | | | RN14BK2C6811F | RN 6.81K F 1/6W | | |
| R85 ,86 | | | RN14BK2C3161F | RN 3.16K F 1/6W | | |
| R89 -96 | | * | RN14BK2C2211F | RN 2.21K F 1/6W | | |
| R97 -100 | | * | RN14BK2C2371F | RN 2.37K F 1/6W | | |
| R101 ,102 | | | RN14BK2C1621F | RN 1.62K F 1/6W | | |
| R103 ,104 | | * | RN14BK2C4870F | RN 487.0 F 1/6W | | |
| R105 ,106 | | * | RN14BK2C2371F | RN 2.37K F 1/6W | | |
| R107 ,108 | | | RN14BK2C1001F | RN 1.00K F 1/6W | | |
| R111 ,112 | | | RN14BK2C1003F | RN 100K F 1/6W | | |
| R113 ,114 | | | RN14BK2C1D0RF | RN 10.0 F 1/6W | | |
| R115 ,116 | | | RN14BK2C1001F | RN 1.00K F 1/6W | | |
| R117 ,118 | | | RN14BK2C1000F | RN 100.0 F 1/6W | | |
| R119 ,120 | | | RN14BK2C1002F | RN 10.0K F 1/6W | | |
| VR1 | | | R12-3096-05 | TRIMMING P0T. (10K)0UTPUT ADJ | | |
| K1 | | | S51-2074-05 | MAGNETIC RELAY | | |
| S1 | | | S40-1103-05 | PUSH SWITCH (P0WER TYPE) | | |
| S2 | | | S31-2094-05 | SLIDE SWITCH (DIGITAL 0UT) | | |
| D1 -10 | | | DSM1A1 | DI0DE | | |
| D11 -14 | | | 1SS133 | DI0DE | | |
| D11 -14 | | | 1SS176 | DI0DE | | |
| D15 | | | HZ55.6N(B2) | ZENER DI0DE | | |
| D15 | | | RD5.6ES(B2) | ZENER DI0DE | | |
| D16 | | * | HZ58.2N(B) | ZENER DI0DE | | |
| D16 | | * | RDB.2ES(B) | ZENER DI0DE | | |
| D17 -20 | | | 1SS133 | DI0DE | | |
| D17 -20 | | | 1SS176 | DI0DE | | |
| D21 | | | HZ56.8N(B2) | ZENER DI0DE | | |
| D21 | | | RD6.8ES(B2) | ZENER DI0DE | | |
| D22 ,23 | | | 1SS133 | DI0DE | | |
| D22 ,23 | | | 1SS176 | DI0DE | | |
| D24 ,25 | | | HZ57.5S(B) | ZENER DI0DE | | |
| D24 ,25 | | | RD7.5JS(B) | ZENER DI0DE | | |
| D26 -30 | | | 1SS133 | DI0DE | | |
| D26 -30 | | | 1SS176 | DI0DE | | |
| IC1 | | | CX2010B | IC(CD SERV0) | | |
| IC2 | | | MS218P | IC(OP AMP X2) | | |
| IC3 | | | UPD7520BCW-040 | IC(MICR0P0CESS0R) | | |
| IC4 -7 | | | LB1294 | IC(6CH DARLINGTON DRIVER) | | |
| IC8 | | | CXD1075P | IC(DIGITAL AUDIO DATA) | | |
| IC9 | | * | TC74HC004P | IC(HEX INVERTER) | | |
| IC10 | | * | SM5802B | IC(DIGITAL FILTER FOR CD) | | |
| IC11 | | | CX20152 | IC(16-BIT D/A C0NVERTER) | | |
| IC12 | | | UPD4053BC | IC(3-INP0UT 2CH MPX/DE-MPX) | | |

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DP-1100D DP-1100D

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|--|---------|-----------|--|---|-------------|---------|
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| IC13,14 IC15-18 IC19 IC20 IC21 | | | TLO72CP-T NE5532P UPD4053BC AN7805F AN7905F | IC(OP AMP X2) IC(OP AMP X2) IC(3-INPUT 2CH MPX/DE-MPX) IC(VOLTAGE REGULATOR/ +15V) IC(VOLTAGE REGULATOR/ -5V) | | |
| IC22 IC23 IC24 IC25 IC26 | | | AN7812F AN7912F AN7805F AN7905F MS1951ASL | IC(VOLTAGE REGULATOR/ +12V) IC(VOLTAGE REGULATOR/ -12V) IC(VOLTAGE REGULATOR/ +15V) IC(VOLTAGE REGULATOR/ -5V) IC(SYSTEM RESET) | | |
| Q19 Q1 Q1 Q2 Q3 | | | STA341M 2SA733(A)(Q,P) 2SA933S(Q,R) 2SA1286 2SK246(Y,GR) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET | | |
| Q4 Q5 Q6 Q7 Q8 | | | 2SA1286 2SC3246 2SA1286 2SD1266(P) 2SK246(Y,GR) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET | | |
| Q9 Q9 Q10 Q10 Q11 | | | 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1740S(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q11 Q12 Q13 Q14 Q15 | | | 2SC945(A)(Q,P) 2SD1302(S,T) 2SK246(Y) 2SK170(BL) 2SK363(V) | TRANSISTOR TRANSISTOR FET FET FET | | |
| Q16 Q17,18 | | | 2SK170(BL) 2SK152(3,4) | FET FET | | |
| PROCESSOR UNIT (X32-1120-01) | | | | | | |
| C1 C2 C3 C4 C6 | ,5 | | CC45FSL1H101J CF92FV1H563J CE04KWJ471M CK45FF1H472Z CC45FUJ1H050C | CERAMIC 100PF J MF 0.056UF J ELECTRO 470UF 6.3WV Z CERAMIC 0.0047UF Z CERAMIC 5.0PF C | | |
| C7 C8 C9 C10 C11 | | * | CC45FUJ1H221J CC45FUJ1H330J CE04KWJ471M C90-1455-05 CF92FV1H103J | CERAMIC 220PF J CERAMIC 33PF J ELECTRO 470UF 6.3WV Z NP-ELEC 0.1UF 50WV MF 0.010UF J | | |
| C12 C13 C14 C15 | | | C90-1350-05 CF92FV1H394J CF92FV1H274J CK45FB1H102K | NP-ELEC 2.2UF 50WV MF 0.39UF J MF 0.27UF J CERAMIC 0.0010UF K | | |
| L1 L2 | | | L32-0328-15 L40-1021-14 | OSCILLATING COIL SMALL FIXED INDUCTOR(1.0MH,K) | | |
| D1 IC1 IC2 IC2 IC3 | | | 1SV147 CX23035 CXK5816M HM6116FP-4 MS218P | VARIABLE IC(DIGITAL SIGNAL PROCESSOR) IC(2K BYTE X8 RAM (CMOS)) IC(16K RAM) IC(OP AMP X2) | | |

E: Scandinavia & Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|--------------------------------------|----------------------------------|-----------|---|--|-------------|---------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 | 備考 |
| MECHANISM ASS'Y (X92-1160-01) | | | | | | |
| C1 C2 | ,3 | * | C90-1349-05 C91-0085-05 | NP-ELEC 1UF 50WV CERAMIC 0.022UF N | | |
| 9 10 11 12 13 | 2B 2B 2A,3A 2A 2B | * | D10-1761-08 D14-0162-04 D91-0071-04 D10-1266-03 D10-1267-03 | LEVER ROLLER SUB WEIGHT SLIDER (L) SLIDER | | |
| 14 16 17 18 19 | 1A 3B 1B 1A 3A | | D10-1268-03 D10-1270-14 D10-1271-03 D12-0105-15 D13-0159-08 | SLIDER ROD ARM (CLAMPER) CAM GEAR | | |
| 20 21 22 24 26 | 3A 2A 3A 2B 3A | | D13-0160-08 D13-0161-03 D13-0365-08 D13-0366-05 D14-0107-04 | GEAR GEAR GEAR LACK (GEAR) ROLLER (CHASSIS) | | |
| 27 28 29 30 31 | 3A 3A 1B 1B 2A | | D15-0220-08 D16-0104-08 D21-1051-04 D21-1052-04 D32-0122-04 | PULLEY BELT SHAFT SHAFT STOPPER | | |
| 32 33 | 3A 2A | * | D40-0378-05 D40-0379-05 | DRIVE MECHANISM ASSY DRIVE MECHANISM ASSY | | |
| 34 | 3A | * | F07-0503-04 | COVER | | |
| 35 36 37 38 39 | 2B 2A,2B 2A 1B 3A | * | G01-1916-08 G01-1925-04 G01-1924-04 G01-1926-08 G10-0113-04 | TORSION COIL SPRING COMPRESSION SPRING COMPRESSION SPRING(FRONT-L,GRN) COMPRESSION SPRING NON-WOVEN FABRIC | | |
| 40 41 42 43 44 | 3A 1B,3B 1A,1B 2B 2A | * | G01-1915-08 G01-0675-04 G01-1523-04 G01-1524-04 G01-1525-04 | EXTENSION SPRING COMPRESSION SPRING EXTENSION SPRING(CLAMPER) EXTENSION SPRING EXTENSION SPRING | | |
| 45 46 47 48 | 2A,2B 1B 1B 2A,3A | | G13-0166-04 G16-0117-04 G16-0134-04 G13-0189-04 | CUSHION (TRAY) SHEET (38X38X2) SHEET (038X152X1) CUSHION | | |
| 49 50 51 52 53 | 2A,2B 2A 1A 2B,3B 3A | * | J02-0192-05 J21-3908-08 J11-0066-14 J19-2153-04 J21-3507-08 | INSULATOR MOUNTING HARDWARE(J42-0407-04) CLAMPER HOLDER MOUNTING HARDWARE ASSY | | |
| 54 55 56 57 58 | 2A 2A 2B 2B 3A,3B | * | J21-3509-03 J21-3909-08 J21-3912-05 J21-3913-08 J42-0142-04 | MOUNTING HARDWARE ASSY(LACK) MOUNTING HARDWARE MOUNTING HARDWARE ASSY MOUNTING HARDWARE BUSHING (CHASSIS) | | |
| 59 60 | 2A,2B 2A | * | J31-0282-04 J90-0143-03 | COLLAR GUIDE (STOPPER) | | |

E: Scandinavia & Europe K: USA P: Canada W: Europe

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

SPECIFICATIONS

| | |
|-----------------------------------|------------------------------------|
| Audio | |
| Frequency response | 2 Hz - 20 kHz |
| Signal-to-Noise ratio | more than 100 dB |
| Dynamic range | more than 96 dB |
| Total harmonic distortion | 0.0015 % or less (1 kHz, THD) |
| | 0.0035% (THD, + Noise) |
| Channel separation | more than 105 dB |
| Wow & flutter | Below measurable limit |
| | (±0.001 %, W PEAK) |
| Line output level | 2.0 V |
| Headphones output level/impedance | 25 mW/32 ohms (With level control) |
| Digital output | Coaxial output 0.5 Vp-p (75 Ω) |
| Format | |
| Type | Compact disc player |
| Read system | Non-contact optical pick-up system |
| Laser pick-up | GaAlAs, λ = 780 nm |
| Spindle speed | About 500 rpm — 200 rpm |
| Error correction | Cross Interleave Read |
| | Solomon Code |
| Number of channels | 2 channels |

Note:
We follow a policy of advancements in development. For this reason specifications may be changed without notice.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong

| | |
|--------------------------------|---|
| General | |
| Power consumptions | 18 W |
| Dimensions | W: 440 mm (17-5/16") H: 103 mm (4-1/16") D: 316 mm (12-7/16") |
| Weight (Net) | 7.0 kg (15.4 lb) |
| Accessories | |
| RCA pin-plug cords | 1 |
| Remote control unit (RC-1100D) | 1 |
| Batteries "R6" (AA) | 2 |
| Remote control unit | |
| Model | RC-1100D |
| System | Infrared beam pulse |
| Power requirements | DC 3 V: R6 (AA) x 2 |
| Dimensions | H: 157 mm (6-3/16") W: 68 mm (2-11/16") D: 18 mm (11/16") |
| Weight | 115 g (0.253 lb) (With batteries) |

| Ref. No. | Part No. | Address | Location | Part No. | Description | Destination |
|----------|------------------|--------------------------------|----------|----------|-------------|-------------|
| 61 | J90-0157-03 | RAIL | | | | |
| 62 | J91-0315-05 | PICKUP | | (DG-2) | | |
| 63 | J99-0024-12 | TRAY | | | | |
| 64 | J99-0025-13 | TRAY | | | | |
| 65 | J99-0026-13 | TRAY | | | | |
| - | J61-0307-05 | WIRE BAND | | | | |
| 73 | 1A | FLAT WASHER | | (22, 6) | | |
| 74 | 2A, 2B | FLAT WASHER | | | | |
| 75 | 1A | FLAT WASHER | | | | |
| 76 | 1A | FLAT WASHER | | | | |
| 77 | 3A, 1B | FLAT WASHER | | | | |
| 79 | 1A, 1B | RETAINING RING (22, 5) | | | | |
| A | 2A | TAPLITE SCREW (3X6, +) MOTOR | | | | |
| E | 2B | MACHINE SCREW | | | | |
| F | 2B | MACHINE SCREW | | | | |
| 6 | 2B | TAPLITE SCREW (M2X6) | | | | |
| H | 3A, 2B | SEMS (TAPLITE SCREW) | | | | |
| K | 3A | STEPPED SCREW (M2, 6X5) | | | | |
| M | 3A | STEPPED SCREW | | | | |
| S1, 2 | 3A, 3B | LEAF SWITCH (OPEN/CLOSE) | | | | |
| S3 | 3A | PUSH SWITCH (START LIMIT) | | | | |
| 87 | 1A | Yoke | | | | |
| 88 | 1B | MAGNET | | | | |
| M1 | 2A | MOTOR ASSY | | | | |
| M2 | 2A | MOTOR ASSY | | | | |
| M3 | 3A | MOTOR ASSY | | | | |
| C1 | C91-0725-05 | CERAMIC | | | | |
| C2 | C91-0725-05 | CERAMIC | | | | |
| C3 | C91-0725-05 | CERAMIC | | | | |
| C4 | CF92FV1H102J | MF | | | | |
| C14 | C91-0745-05 | CERAMIC | | | | |
| C15 | C91-0737-05 | CERAMIC | | | | |
| C16 | C91-0733-05 | CERAMIC | | | | |
| C17 | C91-0765-05 | CERAMIC | | | | |
| C18 | C91-0765-05 | CERAMIC | | | | |
| C19, 20 | CE04JM0J470M | ELECTRO | | | | |
| VR1 | R12-5046-05 | TRIMMING P81. (100K) TE. BAL | | | | |
| VR2 | R12-3077-05 | TRIMMING P81. (22K) FE. BAL | | | | |
| VR3, 4 | R12-3076-05 | TRIMMING P81. (10K) T/F GAIN | | | | |
| D1 | D18DE | DIODE | | | | |
| D1, 5 | 1SS176 | DIODE | | | | |
| IC1 | CX-20109 | IC (RF AMP F8R 3-BEAM PICK-UP) | | | | |
| IC2 | MS218P | IC (RF AMP X2) | | | | |
| IC3 | BU4053B | IC (3-INPUT 2CH MPX/DE-MPX) | | | | |
| IC3 | UPD4053BC | IC (3-INPUT 2CH MPX/DE-MPX) | | | | |
| 01 | 25C945(A) (0.1P) | TRANSISTOR | | | | |

CONTROL CIRCUIT UNIT (X29-1780-00)

PARTS LIST

* New Parts
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Teile ohne Parts No. werden nicht geliefert.