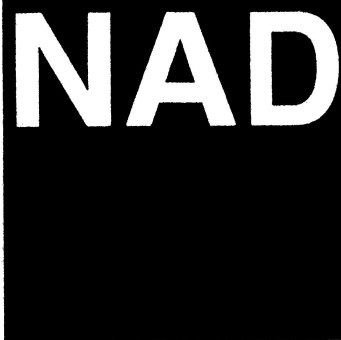


SERVICE MANUAL



SERVICE SAFETY PRECAUTIONS (UL)

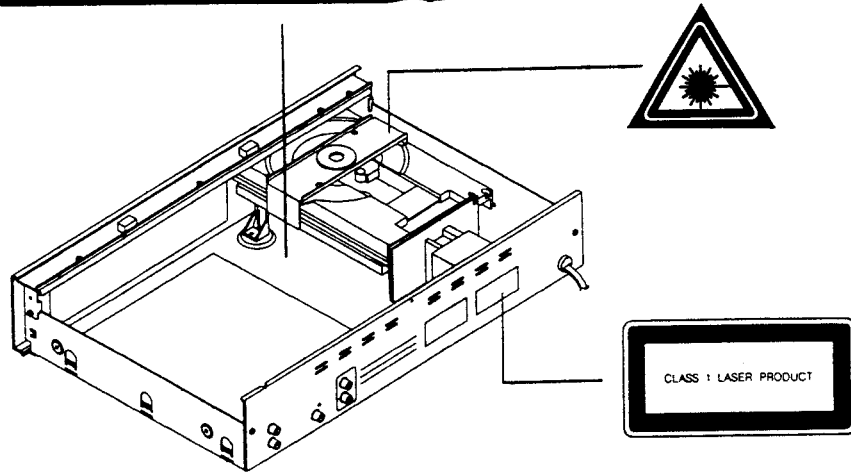
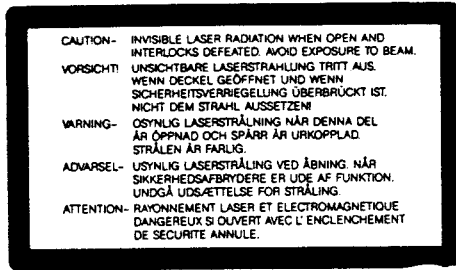
1. Use exact replacement parts for critical locations marked "⚠"
2. Return lead dress to original position and re-install protective covers.
3. Before returning to customer, test for shock hazard; use either method A or B:
 - A. Leakage test "cold":
 1. Unplug the AC cord; turn power switch ON.
 2. Connect one lead of High Voltage Insulation Tester to both prongs of the AC plug.
 3. Touch other lead to all exposed metal parts.
 4. Impedance measurement must be 0.3-5.0 Megohms.
 - B. Leakage test, "live":
 1. Plug unit directly into the AC outlet; do not use isolation transformer.
 2. Connect one lead of the Leakage Current Tester to earth ground.
 3. Touch other lead to all exposed metal parts.
 4. Leakage measurement must be less than 0.5 milliamps.

514
COMPACT
DISC
PLAYER

514
COMPACT
DISC
PLAYER

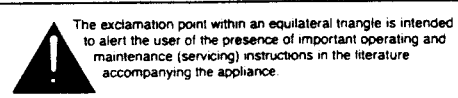
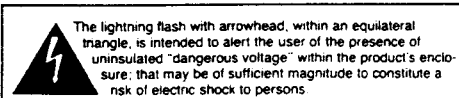
SAFETY INFORMATION

CAUTION



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE OF T630mA/250V FUSES.

ATTENTION: POUR MAINTENIR PROTECTION CONTRE RISQUE D'INCENDIE, UTILISER LES FUSIBLES DE RECHANGE DE MEME TYPE DE T630mA/250V.



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
 (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
 (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

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SPECIFICATIONS

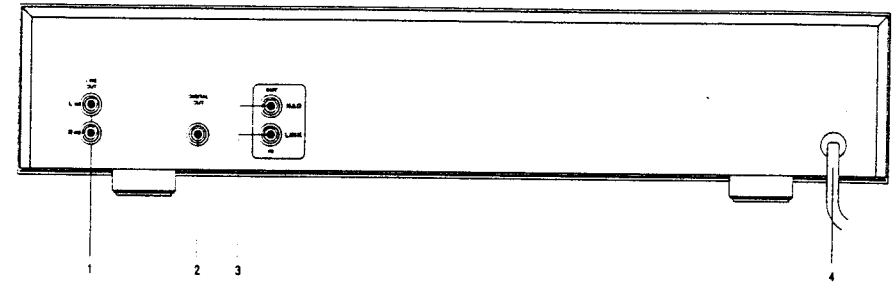
| | |
|--|---|
| Disc capacity..... | Single disc 120 or 80mm |
| Programming capacity..... | 20 Tracks |
| Digital-to Analogue conversion..... | MASH, 18-bit resolution, 4 x oversampled, linear phase with 18-bit coefficients |
| Analogue filter..... | 5 Pole active |
| Frequency response 5Hz-20kHz..... | +/-0.2dB |
| De-emphasis error..... | <0.2dB |
| THD (at 0dB, 1kHz)..... | 0.002% |
| Dynamic range..... | 98dB |
| Linearity..... | +0.5dB; 0 to -90dB |
| Signal/Noise Ratio..... | >100dB |
| (A-weighted, measured with all zeroes test disc) | |
| Channel Separation 1kHz..... | >100dB |
| Wow and Flutter..... | Unmeasurable (Quartz accuracy) |
| Output Impedance..... | 120 ohm |
| Output Level at 0dB..... | 2.0 V rms |
| Digital error correction..... | CIRC with double error correction in C1 and C2 |
| Digital code input..... | Sony/Philips serial data format |
| Remote control..... | Yes |

PHYSICAL SPECIFICATION

| | |
|------------------------|-------------------|
| Dimensions(WxHxD)..... | 435 x 93 x 290mm |
| Net weight..... | 4.6 Kg/ 10.14 lbs |
| Shipping weight..... | 5.5 Kg/ 12.13 lbs |

REAR PANEL/FRONT PANEL VIEW

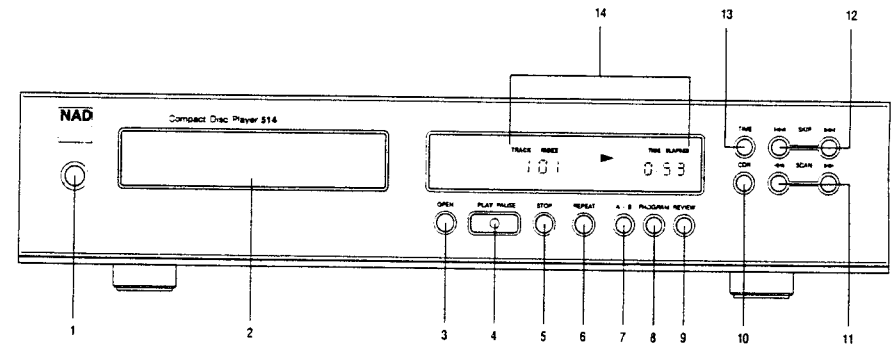
REAR PANEL



1. LINE OUTPUT JACKS
2. DIGITAL OUTPUT

3. NAD LINK IN/OUT
4. AC LINE CORD

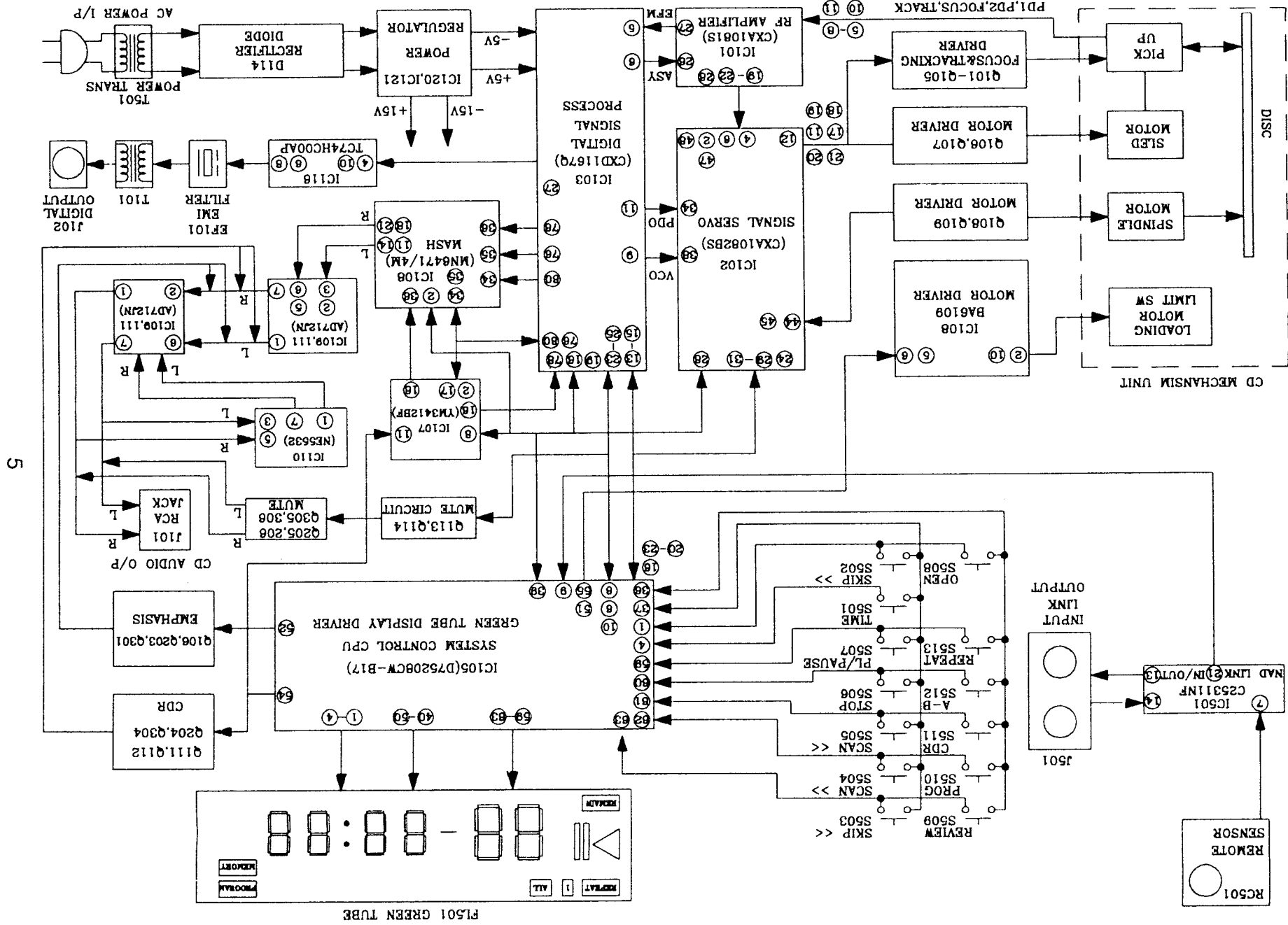
FRONT PANEL



1. POWER
2. DISC DRAWER
3. OPEN
4. PLAY/PAUSE
5. STOP
6. REPEAT
7. A-B REPEAT

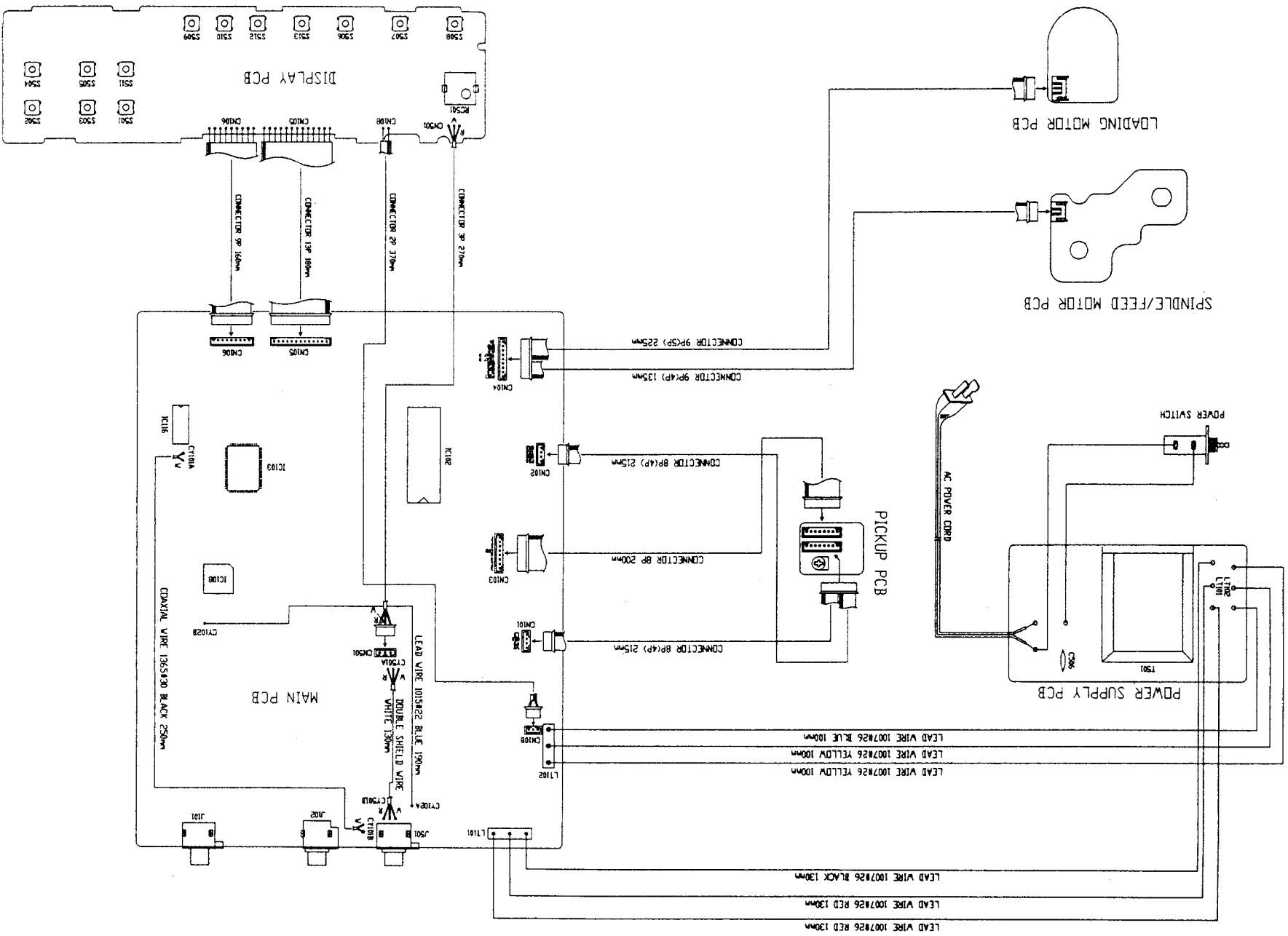
8. PROGRAM(ENTER MEMORY)
9. REVIEW
10. CDR
11. SCAN Forward/Back
12. SKIP Forward and Back
13. TIME DISPLAY SELECTOR
14. DISPLAY

BLOCK DIAGRAM



PL501 GREEN TUBE

WIRING DIAGRAM



DISASSEMBLY INSTRUCTIONS

TOP COVER REMOVAL

1. Remove parts in order of disassembly as numbered.

- a. ①-④ Machine screw M4.0X6.0 (See Fig. 1.)
- b. ⑤ Tapping screw M3.0X8.0 (See Fig. 1.)

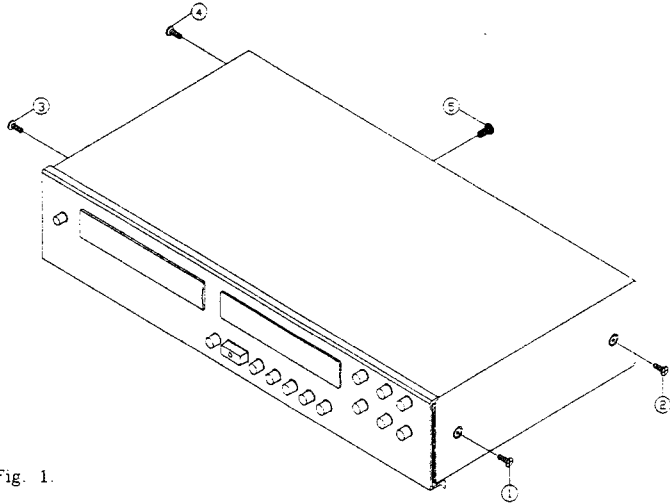


Fig. 1.

2. pull both sides of TOP COVER outward and turning about 35° (shown as arrow ⑥) then remove as arrow ⑦ show. (See Fig. 2.)

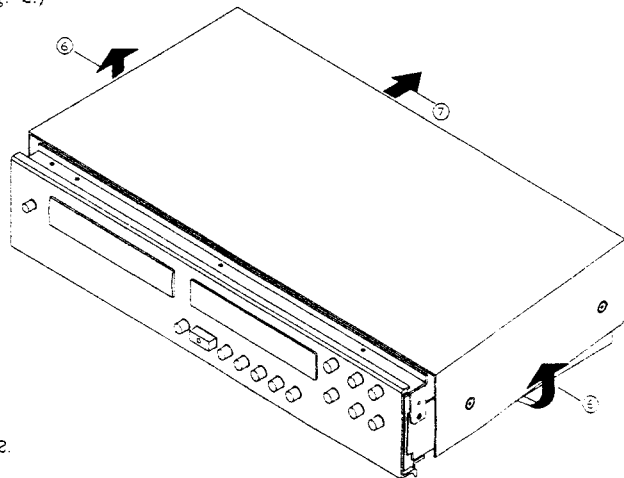


Fig. 2.

ALIGNMENT PROCEDURE

Measuring instruments

- Oscilloscope (Which has a bandwidth of 50 MHz or greater)
- Audio frequency oscillator (AF - OSC)
- Frequency counter (Counter)
- Test disc : SONY YEDS - 7
- Special circuit

TEST MODE Setting Procedure and Key Operation on TEST MODE Procedure :

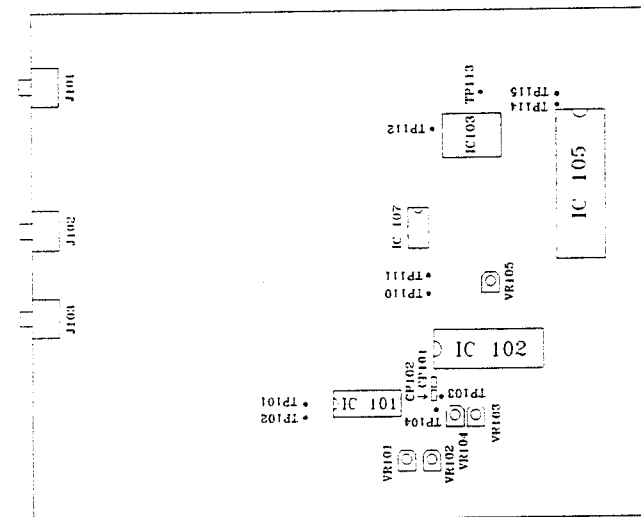
- A) Make sure the power is turned off.
- B) Short TP115 (TMD) and TP114 (GND) together.
- C) Turn the power switch on and the unit will now be in test mode.

Key Operation on TEST MODE

Key No.

- | | |
|---------------|---|
| 1 " OPEN " | : Open and close the tray. |
| 2 " STOP " | : Reset and initialize. |
| 3 " CDR " | : Set the pick-up to the home position. |
| 4 " REPEAT " | : Emit the power and start focus searching. |
| 5 " A - B " | : Start the disc motor. |
| 6 " TIME " | : Switch the tracking servo on / off. |
| 7 " REVIEW " | : Switch the sled servo on / off. |
| 8 " PROGRAM " | : Move the sled motor forward. |
| 9 " SCAN " | : 10 - Track jump forward. |
| 10 " SCAN " | : 10 - Track jump backward. |
| 11 " SKIP " | : 100 - Track jump forward. |
| 12 " SKIP " | : 100 - Track jump backward. |

Main PCB Test Points



Special Circuit

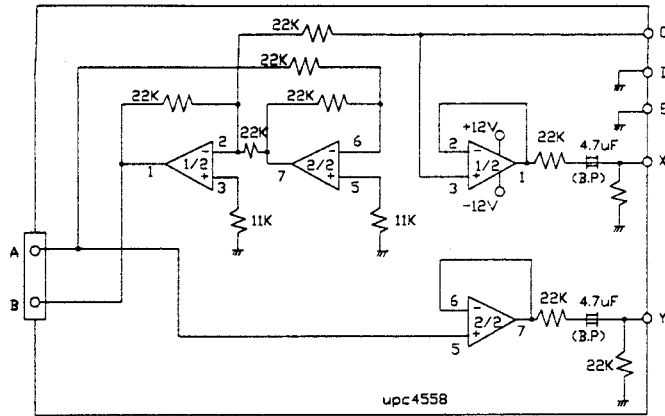


Fig. 3

Focus and Tracking Gain Setting

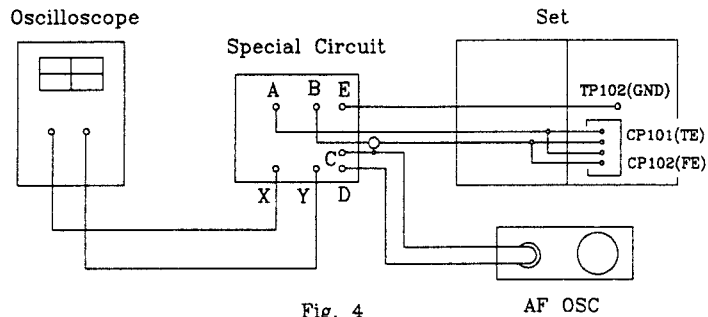


Fig. 4

Adjustment of Focus Offset

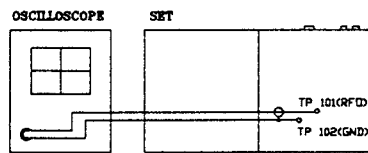


Fig. 5

Adjustment of E-F Balance

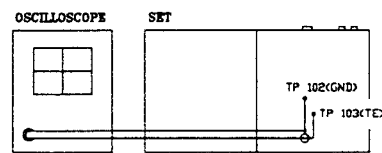


Fig. 6

Adjustment of PLL

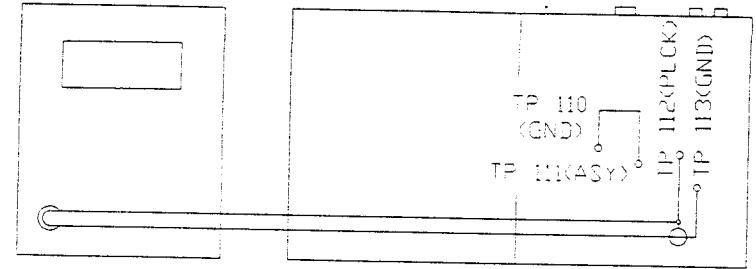
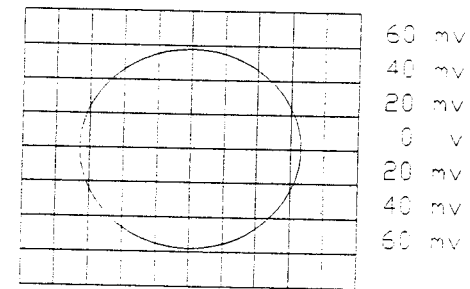


Fig. 7

Adjustment of Focus Servo

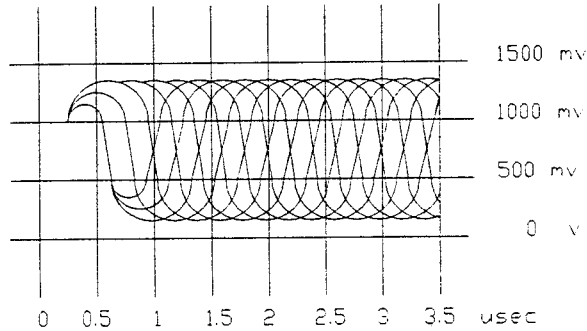
Focus Gain Setting

1. Remove the short ring from CP102 of the set.
2. Connect oscilloscope, special circuit (Fig. 3 Page 9), AF - OSC and the set as shown Fig. 4 Page 9.
3. Make the set to TEST MODE and load the test disc (SONY YEDS - 7 which has no damage) on the tray.
4. Press Key from No. 1 to No. 7 in order of Key No. on TEST MODE (Ref. TEST MODE setting procedure and Key operation on TEST MODE).
5. Apply the sine wave signal of 1.3 kHz, about 100 mVrms from the AF - OSC.
6. Adjust VR103 to make the lissajous's waveform circularly.



Adjustment of Focus Offset

1. Join CP102 of the set with the shorting.
2. Connect oscilloscope to the set as shown Fig. 5 Page 9.
3. Make the set to TEST MODE and load the test disc (SONY YEDS - 7 which has no damage) on the tray.
4. Press Key from No. 1 to No. 7 in order of Key No. on TEST MODE.
5. Adjust VR102 to make the eye patterns which has the maximum amplitude and the biggest diamond windows.

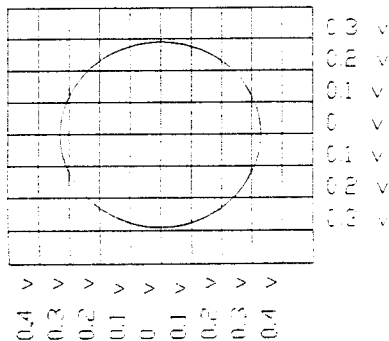


The above is an example of good eye pattern.
The diamond windows in the center portion are large and clear.

Adjustment of Tracking Servo

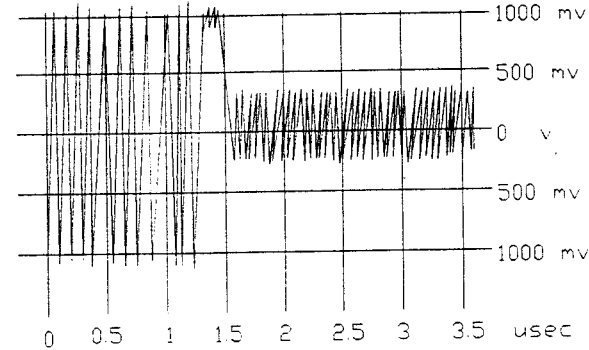
Tracking Gain Setting

1. Remove the shorting from CP101 of the set.
2. Connect oscilloscope, special circuit (Fig. 3 Page 9), AF - OSC and the set as shown Fig. 4 Page 9.
3. Make the set to TEST MODE and load the disc (SONY YEDS - 7 which has no damage) on the tray.
4. Press Key from No. 1 to No. 7 in order of Key No. on TEST MODE.
5. Apply the sine wave signal of 1.15 kHz, about 400 mVrms from the AF - OSC.
6. Adjust VR104 to make the lissajous's waveform is circular.



Adjustment of E - F Balance

1. Join the shorting to CP101 of the set.
2. Connect oscilloscope to the set as shown Fig. 6 Page 9.
3. Make the set to TEST MODE and load the test disc (SONY YEDS 7 which has no damage) on the tray.
4. Press Key from No. 1 to No. 6 in order of Key No. on TEST MODE and Tracking servo off.
5. Adjust VR101 to make the waveform symmetrically on the oscilloscope screen.



Adjustment of PLL (Phase Lock Loop)

1. Short TP110 (GND) and TP111 (ASY) of the set and connect frequency counter to the set as shown on Fig. 7 Page 10.
2. Make the set to TEST MODE and load the test disc (SONY YEDS -7 which has no damage) on the tray.
3. Press Key from No. 1 to No. 3 in order of Key No. on TEST MODE.
4. Adjust VR105 to show the counter reading is about 4.32MHz.
5. Open TP110 and TP111 of the set and press Key from No. 4 to No. 7 in order of Key No. on TEST MODE.
6. Reconfirm the counter reading is within $4.3218 \text{ MHz} \pm 0.0025 \text{ MHz}$.

IMPORTANT NOTES

INSTRUCTION FOR HANDLING OPTICAL SYSTEM BLOCK PICK-UP

Electrostatic breakdown of the laser diode in the optical system block may occur due to a potential difference caused by electrostatic charge accumulated on clothing, human body, etc. A ground must be provided as follows to prevent any electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Work Bench

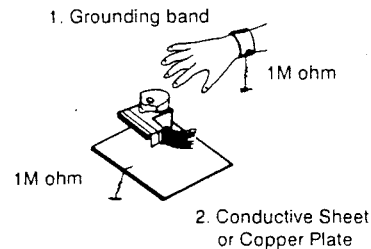
Be sure to place a conductive sheet (1M ohm) or copper plate with proper grounding on the work bench or other surface on which the pick-up is to be placed.

3. Because the static electricity charge on the clothing does not discharge through the body grounding band, do not let clothing contact the pick-up unit.

INCORRECT



CORRECT



NOTE: Laser diodes are so susceptible to damage from static electricity that even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

PRECAUTIONS FOR CHECKING BEAM EMISSION OF LASER DIODE

The laser beam of this unit is focused on the reflecting surface of the objective lens in the optical system block. Therefore, keep your eyes at least 12 inches (30 cm) away from the objective lens when the laser diode is ON.

(Operation Check Method for Laser Diode and Focus Search Function.)

When the POWER switch is turned ON after the chucking arm is removed, observe the objective lens and confirm that the following operations are performed properly.

(The optical system block should be at the lead-in area position when it is checked at this time.)

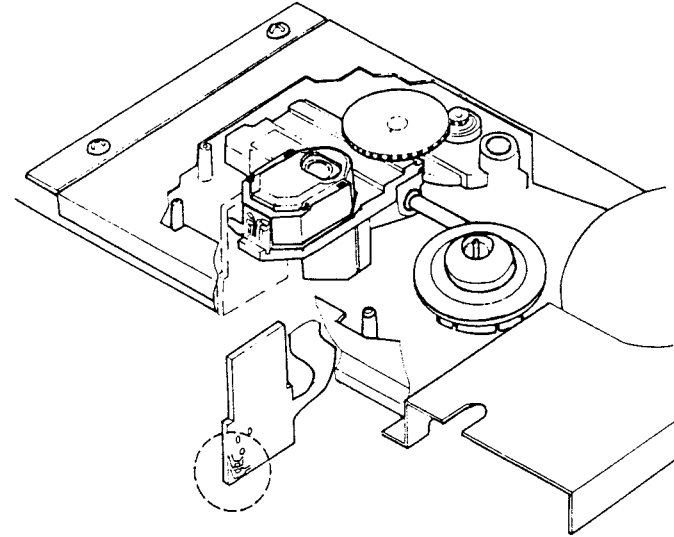
- (1) The laser should be at the innermost position after the chucking arm is removed.
- (2) The diffused light of the laser beam can be seen when the POWER switch is turned ON.
- (3) Vertical (up and down) movement of the objective lens (2 or 3 times) will take place.

PRECAUTIONS WHEN CHANGING LASER PICK-UP

When removing pick-up assembly, short circuit the PCB pattern as shown in the drawing in order to protect the pick up before removal.

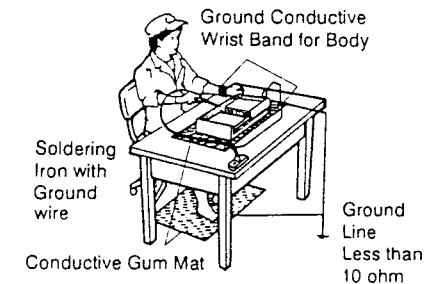
NOTE: Replacement pickup assemblies are supplied with the PCB pattern already protected.

DO NOT REMOVE THE SHORT CIRCUITS UNTIL YOU HAVE FINISHED FITTING THE PICK-UP.

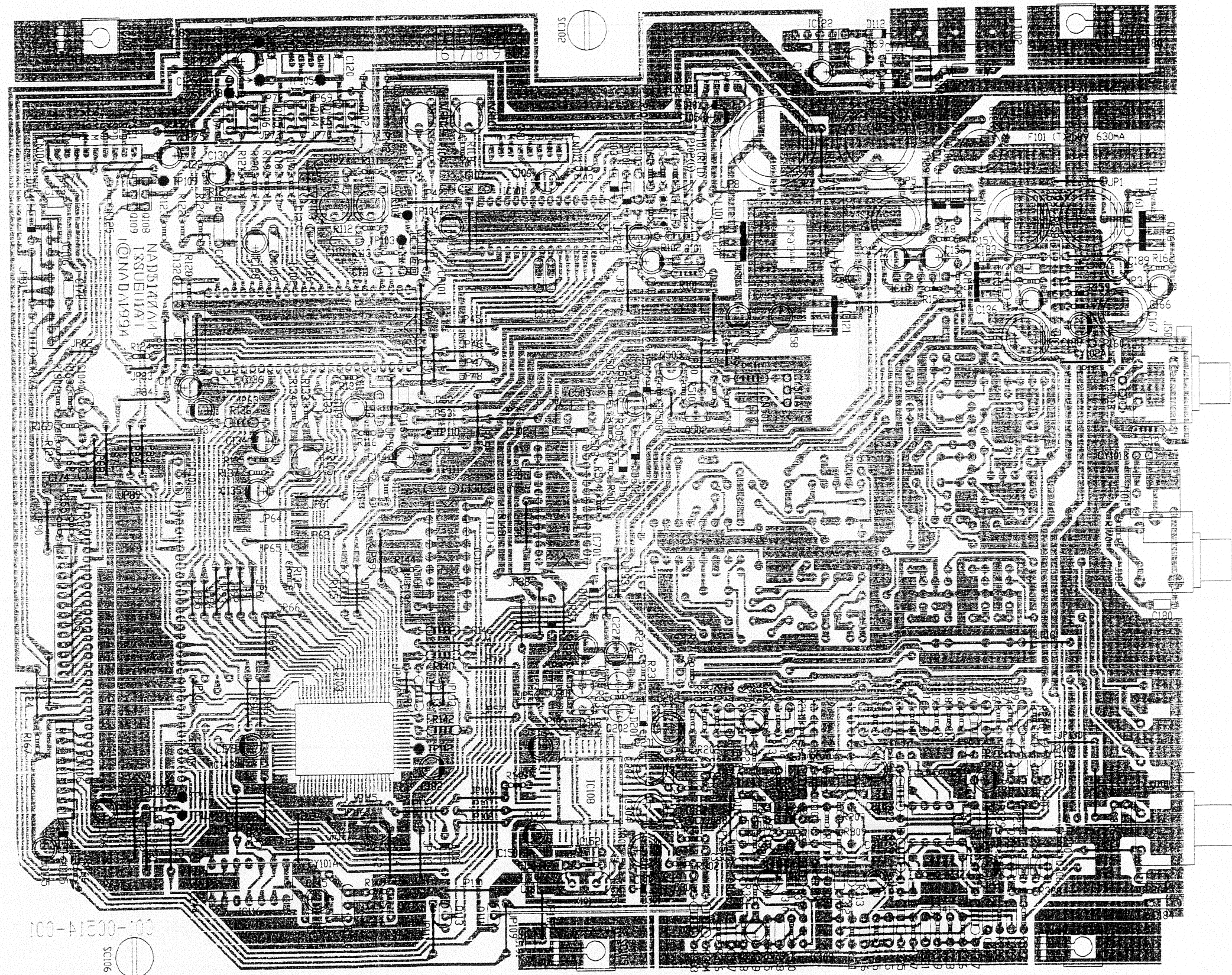


Caution:

Laser diodes are extremely susceptible to damage from static electricity. Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly. When replacing the pick-up, use a conductive mat, a grounded soldering iron, and so on, to protect the laser diode from static damage.

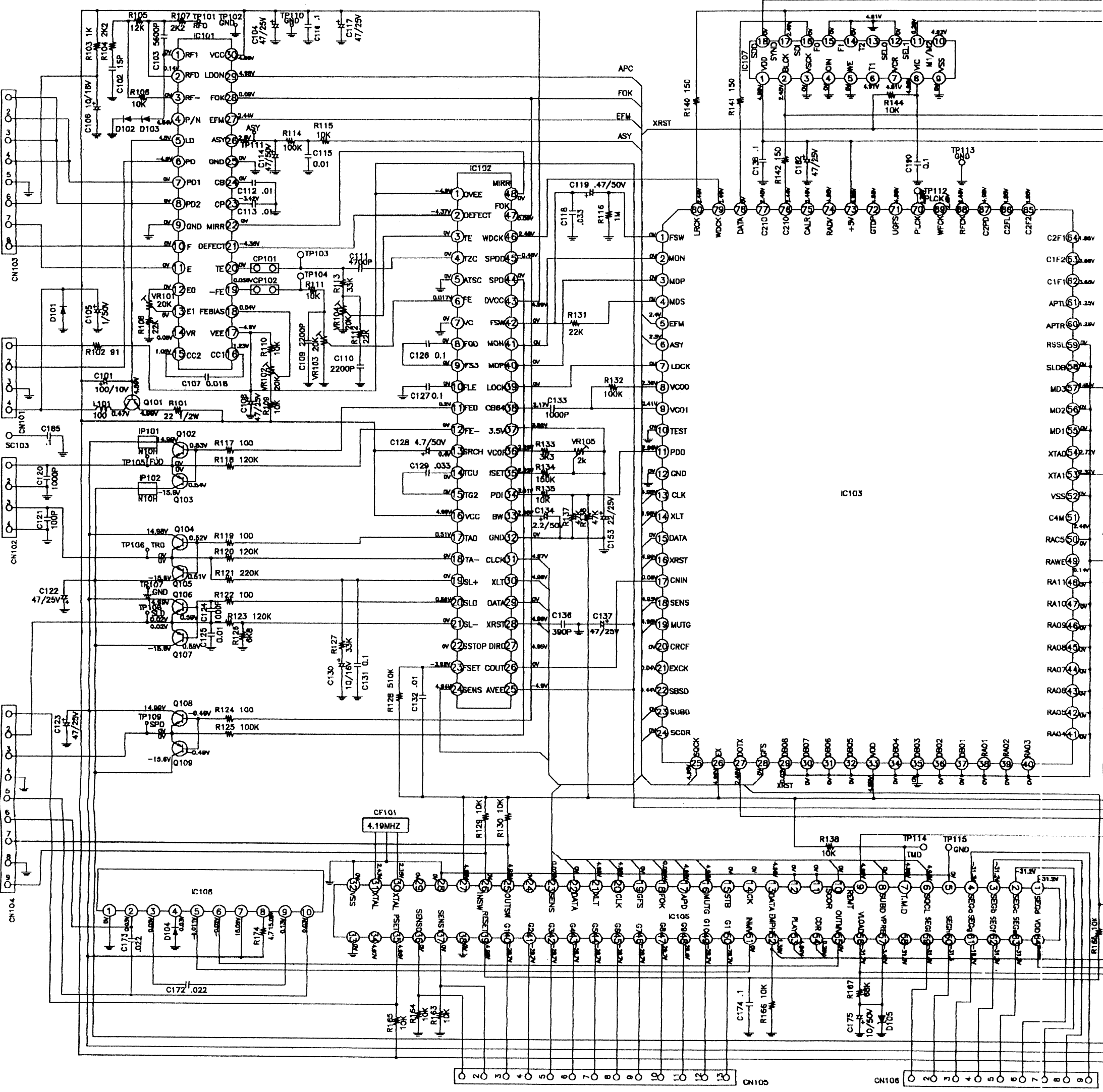


MAIN PCB LAYOUT (PARTS SIDE)

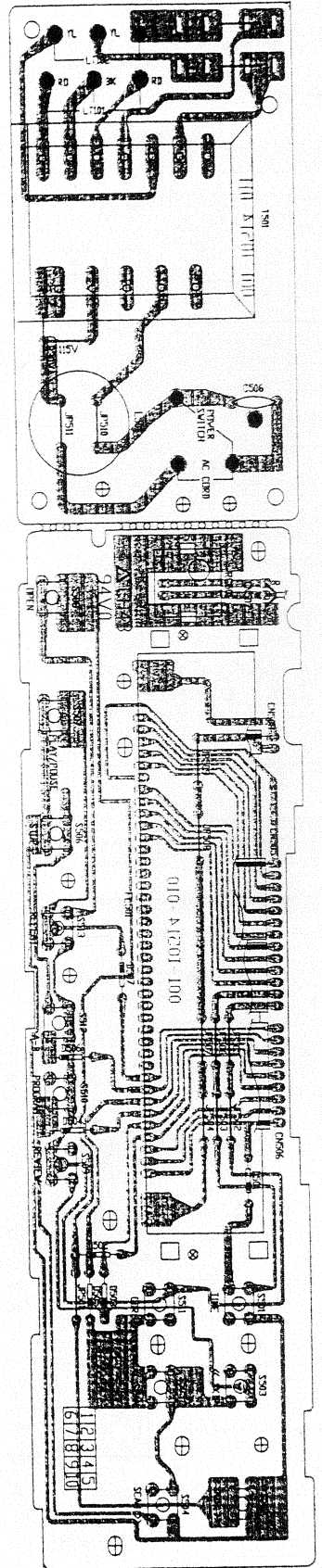


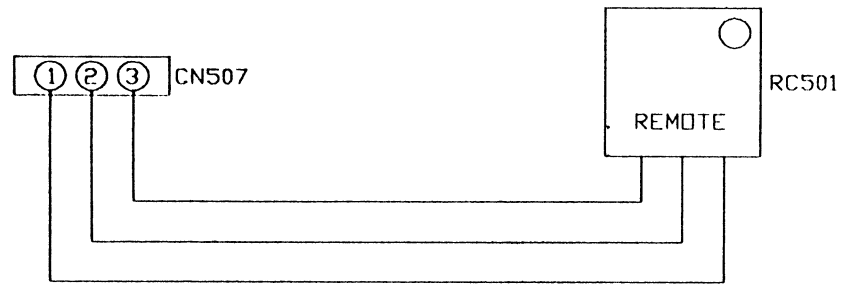
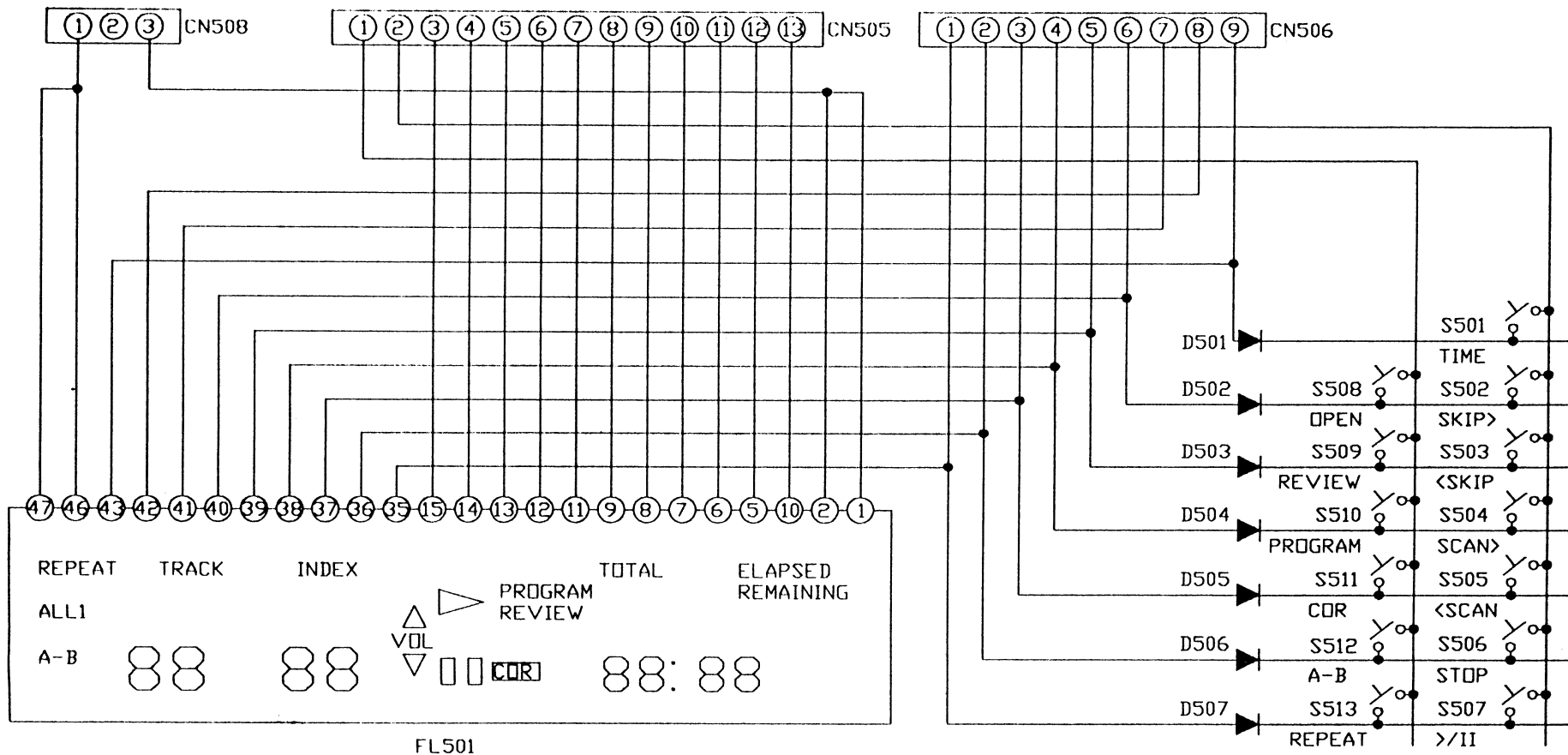
MAIN SCHEMATIC DIAGRAM

- NOTE: 1. ALL RESISTANCES VALUES ARE IN Ω . ($K\Omega=1000\Omega$, $M\Omega=1000K\Omega$.)
 2. THE WATTAGE OF RESISTORS IS 1/6W UNLESS OTHERWISE NOTED.
 3. ALL CAPACITANCES VALUES ARE IN μF UNLESS OTHERWISE NOTED. ($P=\mu\mu F$).
 4. SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT SAFETY REGULATIONS THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.



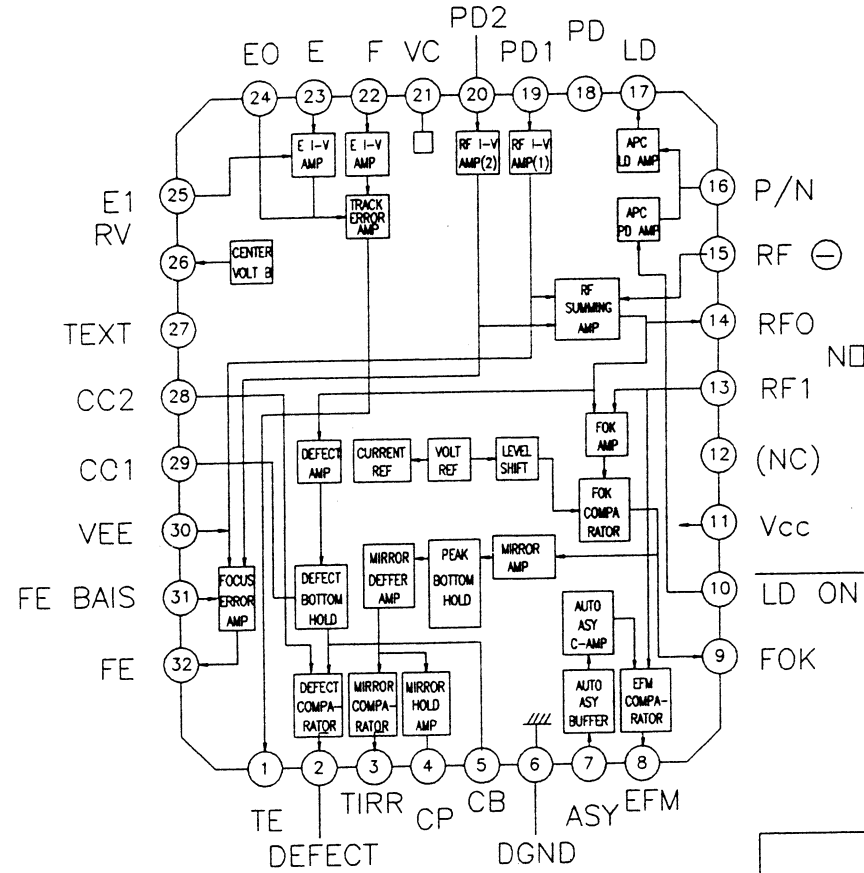
DISPLAY PCB LAYOUT (PARTS SIDE) AND SCHEMATIC DIAGRAM



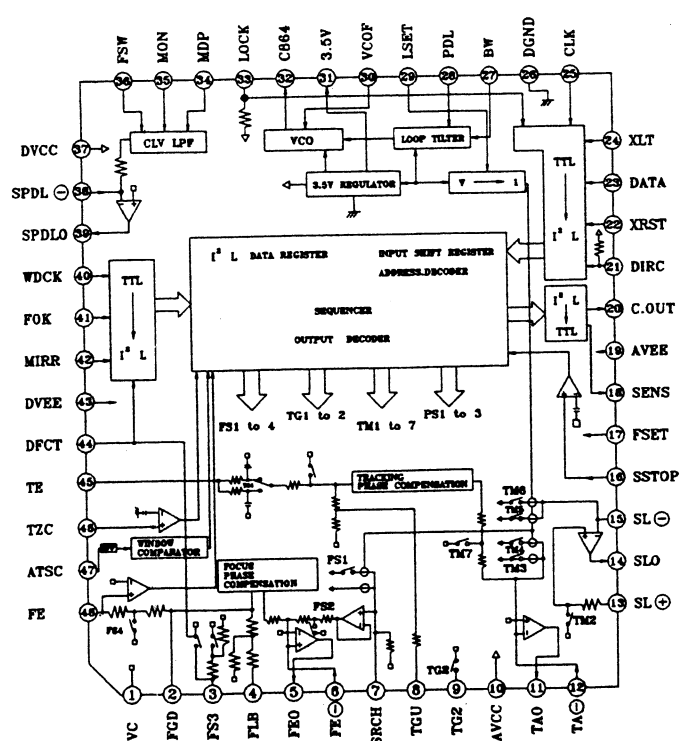


IC BLOCK DIAGRAM

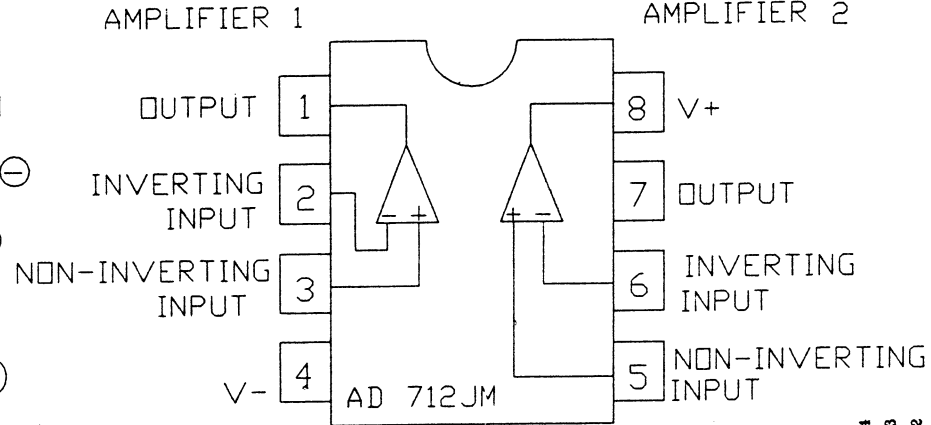
IC101 CXA1081S



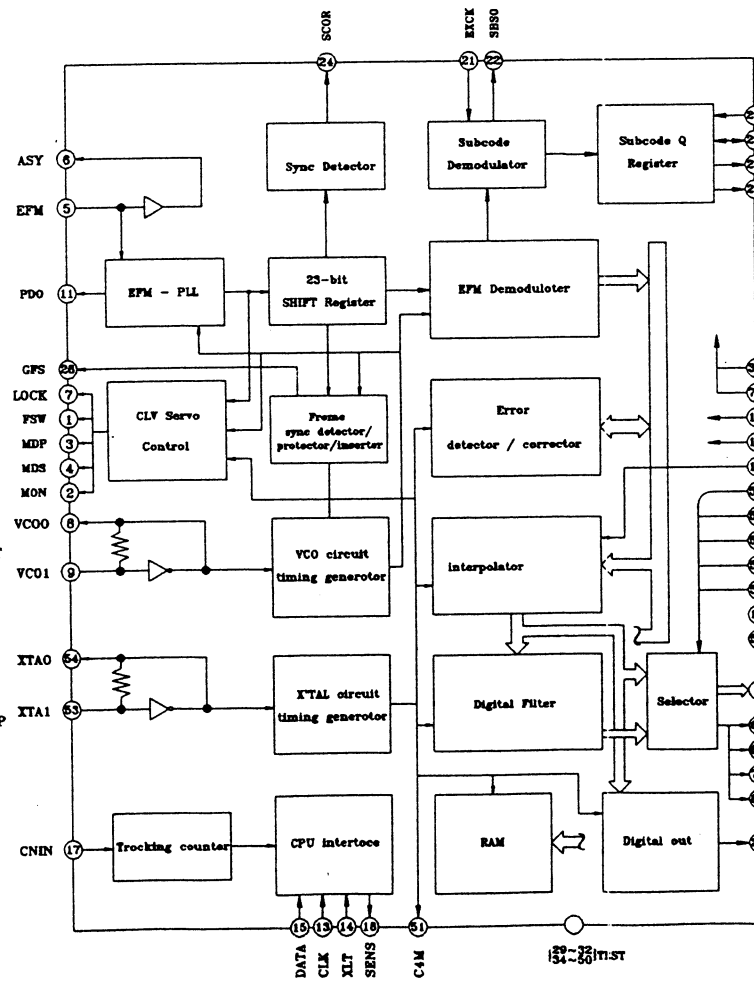
IC102 CXA1082BS



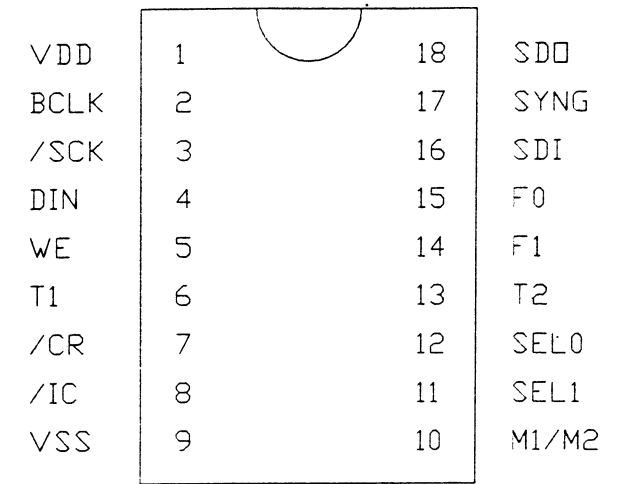
IC109/111 AD712JMB



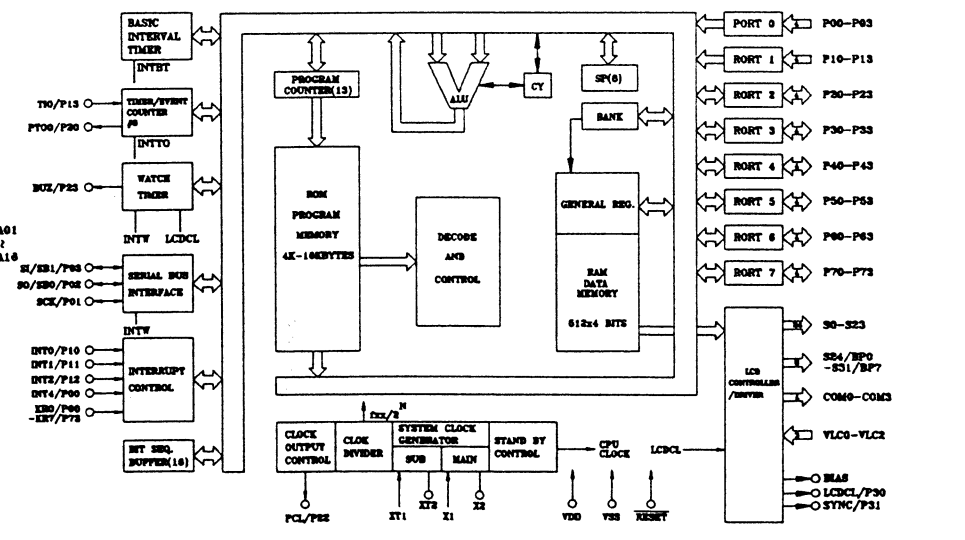
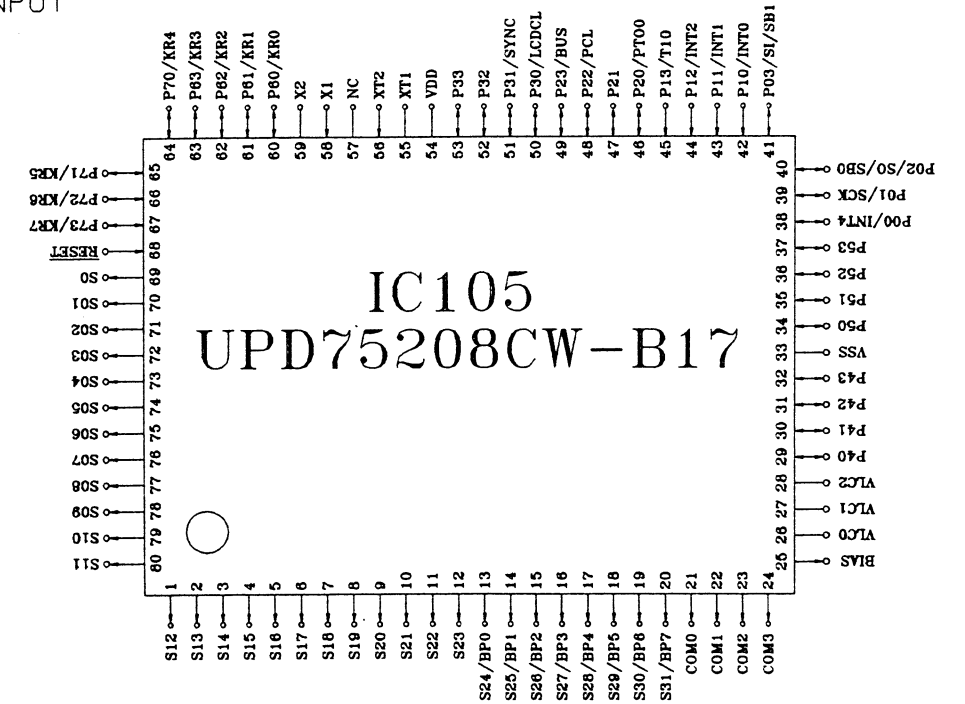
IC103 CXD1167Q

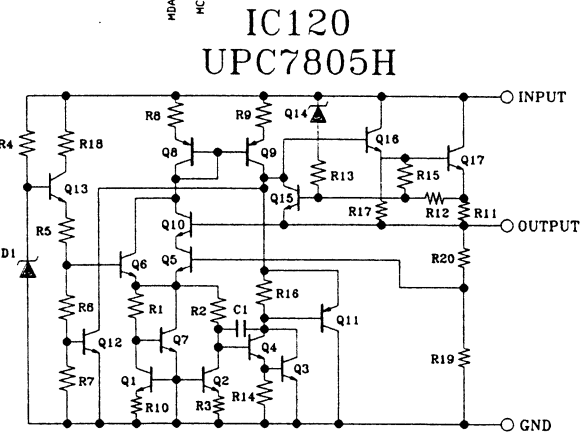
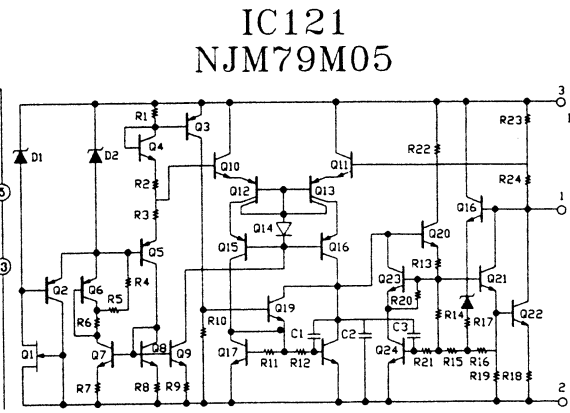
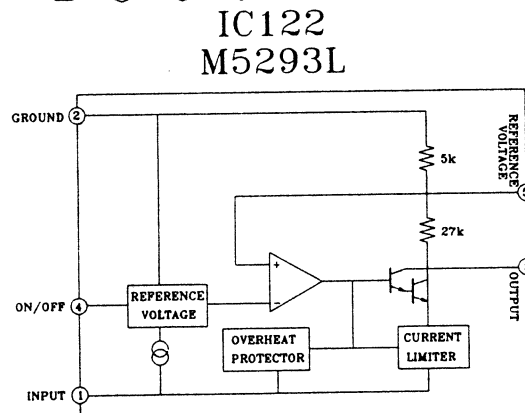
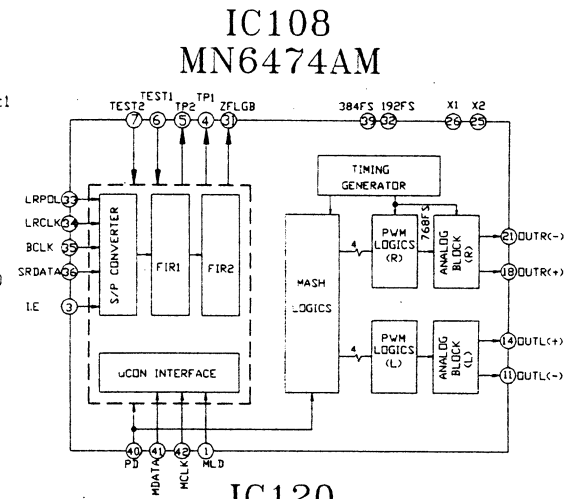
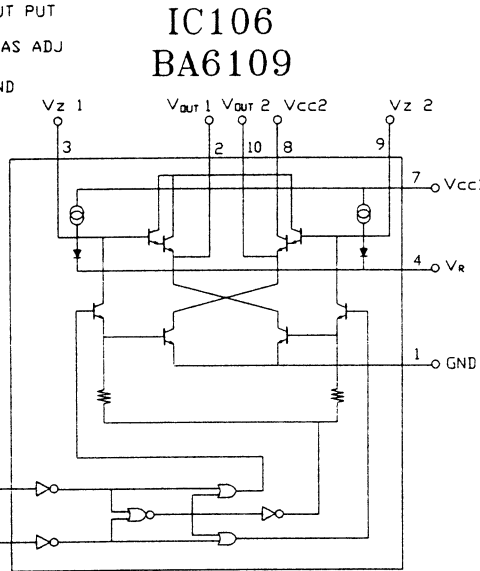
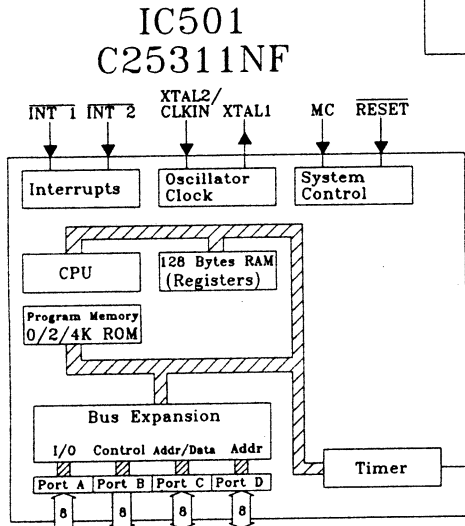
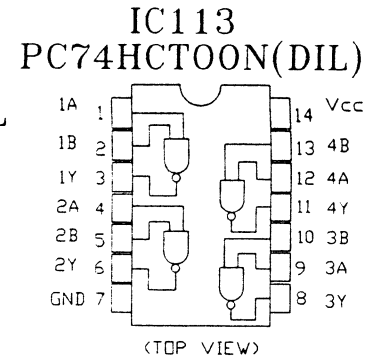
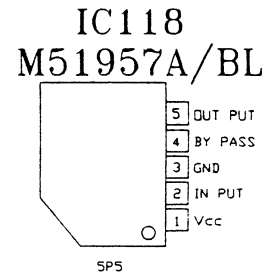
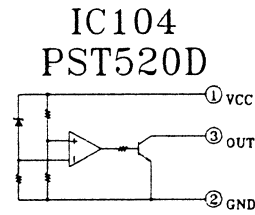
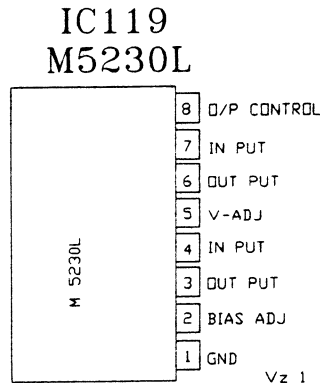
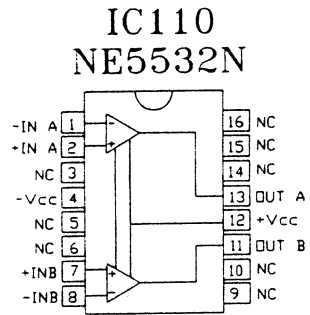


IC107 YM3412B



IC105 UPD75208CW-B17





IC AND TRANSISTOR VOLTAGE CHART

IC102 CXA1082BS

| | | | | | | | | | | | | |
|---------|------|------|------|------|------|-------|------|------|-------|------|-------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VOLTAGE | -4.9 | -4.4 | 0 | 0 | 0 | 0.017 | 0 | 0 | 0 | 0 | 0.2 | 0 |
| PIN | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| VOLTAGE | 0.4 | 0 | 0 | 4.99 | 0.51 | 0 | 0 | 0.59 | 0 | 0 | -3.95 | 4.94 |
| PIN | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| VOLTAGE | -4.9 | 0 | 4.95 | 4.98 | 0 | 4.98 | 4.97 | 0 | 2.98 | 3.01 | 2.22 | 2.29 |
| PIN | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| VOLTAGE | 3.52 | 2.17 | 0 | 0 | 0 | 0 | 4.99 | 0 | -0.48 | 2.48 | 0.09 | 0 |

IC103 CXD1167Q

| | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VOLTAGE | 0 | 0 | 0 | 0 | 2.4 | 2.5 | 0 | 2.39 | 2.41 | 0 | 2.96 | 0 |
| PIN | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| VOLTAGE | 4.98 | 4.98 | 0 | 4.99 | 0.08 | 4.95 | 4.98 | 0 | 0.04 | 4.44 | 0 | 0 |
| PIN | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| VOLTAGE | 4.98 | 4.99 | 2.48 | 0 | 0.03 | 0 | 0 | 0 | 4.99 | 0 | 0 | 0 |
| PIN | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| VOLTAGE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PIN | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| VOLTAGE | 0.14 | 0V | 2.46 | 0 | 2.32 | 2.72 | 0 | 0 | 4.99 | 0 | 0 | 1.25 |
| PIN | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| VOLTAGE | 1.25 | 3.65 | 3.68 | 1.88 | 1.88 | 1.88 | 4.98 | 2.49 | 2.49 | 2.38 | 4.86 | 4.98 |
| PIN | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | | | | |
| VOLTAGE | 4.98 | 4.98 | 2.49 | 2.44 | 2.45 | 0 | 2.49 | 2.49 | | | | |

IC101 CXA1081S

| | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| VOLTAGE | 0 | 0.14 | 0 | 4.64 | 4.5 | -4.9 | 0 | 0 | 0 | 0 |
| PIN | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| VOLTAGE | 0 | 0 | 0 | 0.05 | 1.05 | 1.23 | -4.9 | 0.04 | 0.06 | 0 |
| PIN | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| VOLTAGE | -4.4 | 0 | -3.4 | 0 | 0 | 2.5 | 2.44 | 0.09 | 4.98 | 4.99 |

IC107 YM3412B

| | | | | | | | | | | |
|---------|------|------|------|----|----|------|------|------|---|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| VOLTAGE | 4.99 | 2.45 | 0 | 0 | 0 | 4.91 | 4.91 | 4.98 | 0 | 4.92 |
| PIN | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | |
| VOLTAGE | 0.28 | 0 | 4.91 | 0 | 0 | 0 | 2.49 | 0 | | |

IC106 BA6109

| | | | | | | | | | | |
|---------|---|------|------|------|-------|-------|-------|-------|------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| VOLTAGE | 0 | 0.03 | 0.05 | 0.03 | -0.01 | -0.02 | 15.09 | 15.09 | 0.13 | 0.03 |

IC116 TC74HC00AP

| | | | | | | | | | | |
|---------|------|----|------|------|------|------|---|------|------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| VOLTAGE | 0 | 0 | 4.98 | 2.48 | 4.98 | 2.43 | 0 | 2.32 | 4.98 | 2.48 |
| PIN | 11 | 12 | 13 | 14 | | | | | | |
| VOLTAGE | 4.98 | 0 | 0 | 4.99 | | | | | | |

IC111 AD712BQ

| | | | | | | | | |
|---------|---|------|------|-------|---|---|---|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| VOLTAGE | 0 | 1.41 | 1.41 | -9.75 | 0 | 0 | 0 | 9.75 |

IC119 M5230L

| | | | | | | | | |
|---------|---|---|-------|-------|------|------|-------|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| VOLTAGE | 0 | 0 | -1.47 | -15.0 | 1.83 | 0.82 | 14.47 | 6.79 |

IC109 AD712BQ

| | | | | | | | | |
|---------|---|---|---|-------|------|------|---|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| VOLTAGE | 0 | 0 | 0 | -9.74 | 1.42 | 1.42 | 0 | 9.75 |

IC110 NE5532N

| | | | | | | | | |
|---------|-------|---|---|-------|---|---|---|-----|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| VOLTAGE | 0.083 | 0 | 0 | -9.59 | 0 | 0 | 0 | 9.6 |

IC121 NJM79M05

| | | | |
|---------|---------|---------|------------|
| PIN | 1 / O/P | 2 / I/P | 3 / COMMON |
| VOLTAGE | -4.9 | -12.85 | 0 |

IC104 PST520D

| | | | |
|---------|---------|---------|---------|
| PIN | 1 / VCC | 2 / GND | 3 / OUT |
| VOLTAGE | 4.99 | 0 | 4.98 |

IC108 MN6474AM

| | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|----|------|------|------|------|----|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VOLTAGE | 4.7 | 4.99 | 0 | 0 | 0 | 0 | 0 | 5.04 | 5.04 | 5.02 | 2.51 | 0 |
| PIN | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| VOLTAGE | 0 | 2.51 | 5.02 | 0 | 5.04 | 2.52 | 0 | 0 | 0 | 5.04 | 4.69 | 0 |
| PIN | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| VOLTAGE | 2.85 | 2.29 | 4.69 | 4.69 | 0 | 4.69 | 0 | 2.37 | 4.69 | 2.49 | 0 | 0 |
| PIN | 37 | 38 | 39 | 40 | 41 | 42 | | | | | | |
| VOLTAGE | 0 | 4.69 | 2.38 | 0 | 0.21 | 4.69 | | | | | | |

IC105 UPD75208CW-B17

| | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VOLTAGE | -31.2 | -31.2 | -31.2 | -31.3 | 0 | 4.98 | 4.98 | 0 | 4.98 | 0 | 0 | 0 |
| PIN | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| VOLTAGE | 4.98 | 0 | 0 | 4.98 | 4.98 | 0.094 | 0 | 4.98 | 4.98 | 0 | 0.079 | 0 |
| PIN | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| VOLTAGE | 4.98 | 0 | 4.98 | 0 | 0 | 2.35 | 2.43 | 0 | 0 | 4.97 | 4.98 | 0 |
| PIN | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| VOLTAGE | 0 | 0 | 4.98 | -28.7 | -28.7 | -28.7 | -28.7 | -28.7 | -28.7 | -28.7 | -28.7 | -28.6 |
| PIN | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| VOLTAGE | -28.7 | -28.7 | 0 | 1.55 | 4.94 | 0.28 | 0 | -31.7 | -3.41 | -31.5 | -31.4 | -31.3 |
| PIN | 61 | 62 | 63 | 64 | | | | | | | | |
| VOLTAGE | -19.1 | -31.3 | -31.3 | 4.98 | | | | | | | | |

IC501 C25311NF

| | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|-----|------|
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VOLTAGE | 0 | 4.98 | 4.98 | 4.99 | 4.99 | 4.99 | 4.9 | 4.99 | 4.51 | 4.94 | 2.4 | 2.74 |
| PIN | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| VOLTAGE | 4.98 | 4.12 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 0 | 0 | 0 |
| PIN | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| VOLTAGE | 0 | 0 | 4.98 | 4.98 | | | | | | | | |

IC120 UPC7805

| | | | |
|---------|---------|---------|---------|
| PIN | 1 / I/P | 2 / GND | 3 / O/P |
| VOLTAGE | 15.05 | 0 | 4.99 |

IC118 M51957BL

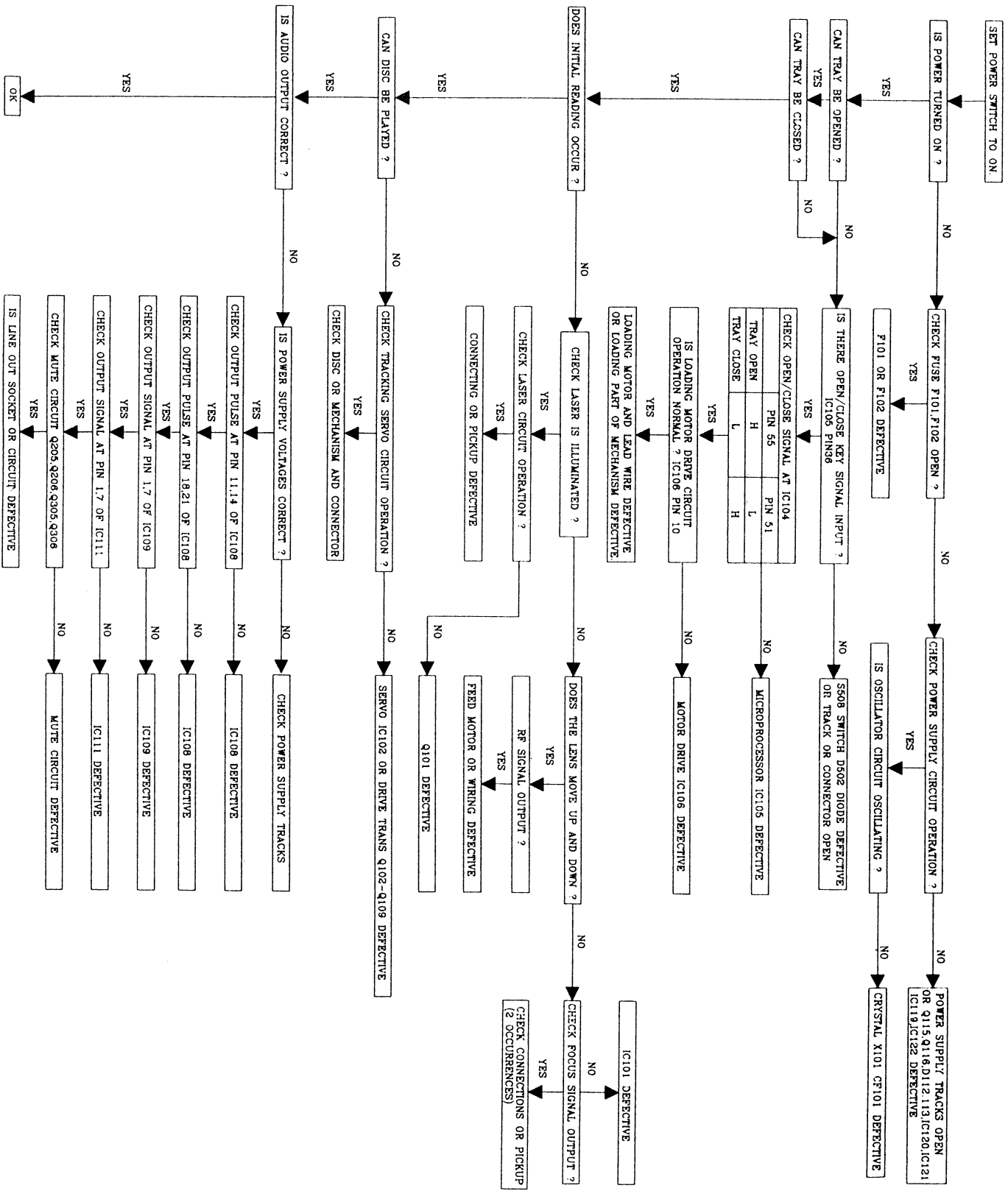
| | | | | | |
|---------|-------|------|---|------|-------|
| PIN | 1 | 2 | 3 | 4 | 5 |
| VOLTAGE | 15.09 | 3.58 | 0 | 1.23 | 15.04 |

IC122 M5293L

| | | | | | |
|---------|-------|---|-------|-------|-------|
| PIN | 1 | 2 | 3 | 4 | 5 |
| VOLTAGE | -44.5 | 0 | -31.7 | -4.98 | -4.98 |

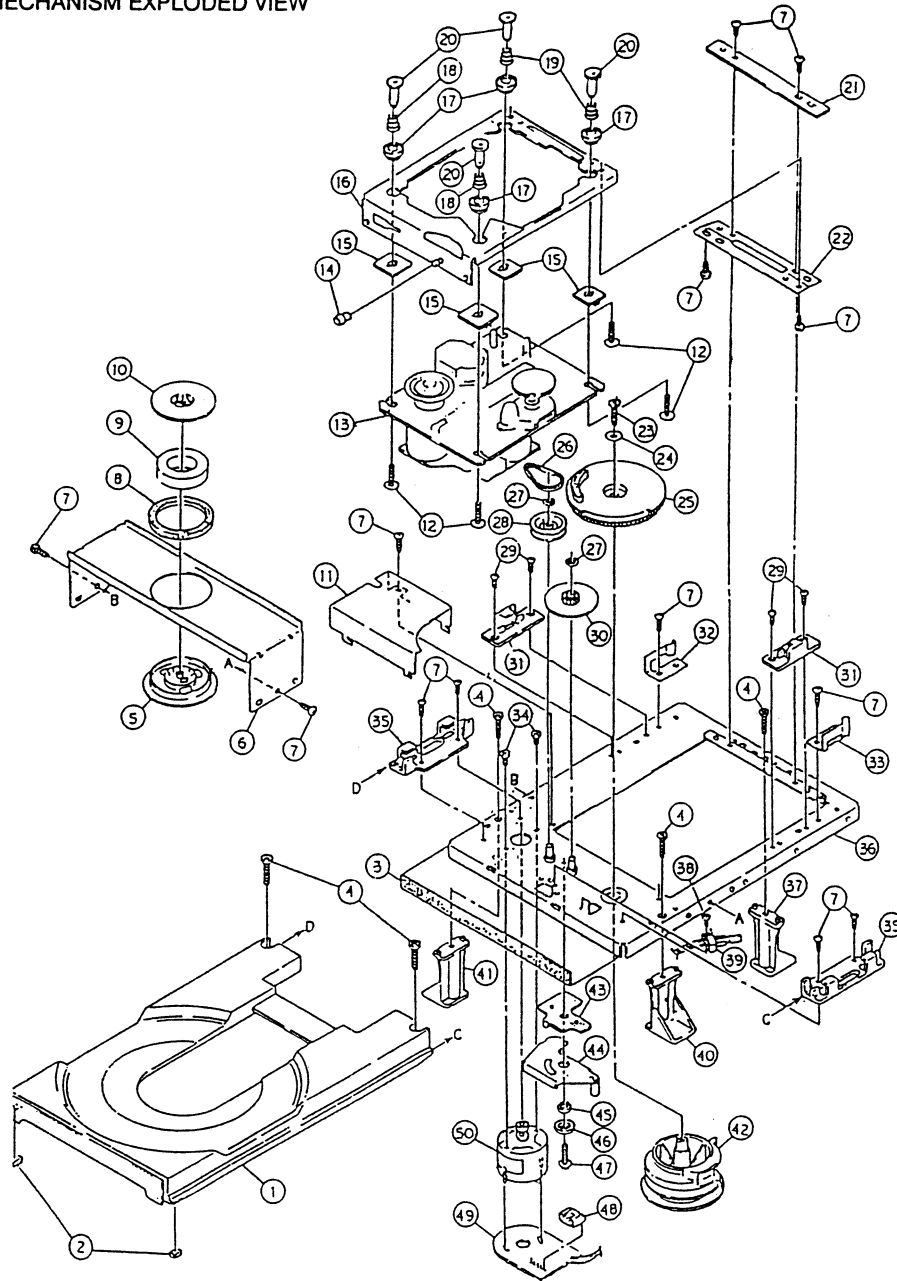
| NO. | TYPE NO. | B | E | C |
|------|-----------|--------|--------|-------|
| Q101 | 2SB1237R | 4.96 | 0.47 | 4.99 |
| Q102 | 2SD1858R | 0.53 | 14.99 | 0 |
| Q103 | 2SB1237R | 0.54 | -15.6 | 0 |
| Q104 | 2SD1858R | 0.52 | 14.98 | 0 |
| Q105 | 2SB1237R | 0.51 | -15.6 | 0 |
| Q106 | 2SD1858R | 0.59 | 14.99 | 0.02 |
| Q107 | 2SB1237R | 0.59 | -15.6 | 0.02 |
| Q108 | 2SD1858R | -0.49 | 14.99 | 0 |
| Q109 | 2SB1237R | -0.49 | -15.6 | 0 |
| Q110 | DTA114ES | 8.76 | 10.85 | 10.93 |
| Q111 | DTA114ES | 0.28 | 10.9 | 0 |
| Q112 | DTA114ES | 10.91 | -10.82 | 10.93 |
| Q113 | DTA114ES | 4.94 | 0.01 | 0 |
| Q114 | DTA114ES | 0.01 | 14.96 | 14.98 |
| Q115 | 2SB1185F | 14.38 | 10.94 | 15.01 |
| Q116 | 2SD1762F | -15.63 | -10.93 | 15.03 |
| Q201 | 2SA1025GR | 10.31 | 9.64 | 10.93 |
| Q202 | 2SA1015GR | 9.64 | 5.02 | 10.31 |
| Q203 | 2SC2878B | 0.71 | 0 | 0 |
| Q204 | 2SC2878B | -10.81 | 0 | 0 |
| Q205 | 2SC2878B | 0.73 | 0 | 0 |
| Q206 | 2SC2878B | 0.735 | 0 | 0 |
| Q301 | 2SA1015GR | 10.31 | 9.63 | 10.93 |
| Q302 | 2SA1015GR | 9.63 | 5.04 | 10.31 |
| Q303 | 2SC2878B | 0.72 | 0 | 0 |
| Q304 | 2SC2878B | -10.81 | 0 | 0 |
| Q305 | 2SC2878B | 0.73 | 0 | 0 |
| Q306 | 2SC2878B | 0.73 | 0 | 0 |
| Q502 | 2SC1815GR | 4.78 | 0 | 4.17 |
| Q503 | 2SA1015GR | 4.98 | 0 | 4.99 |

TROUBLE SHOOTING GUIDE



MECHANISM EXPLODED VIEW AND PARTS LIST

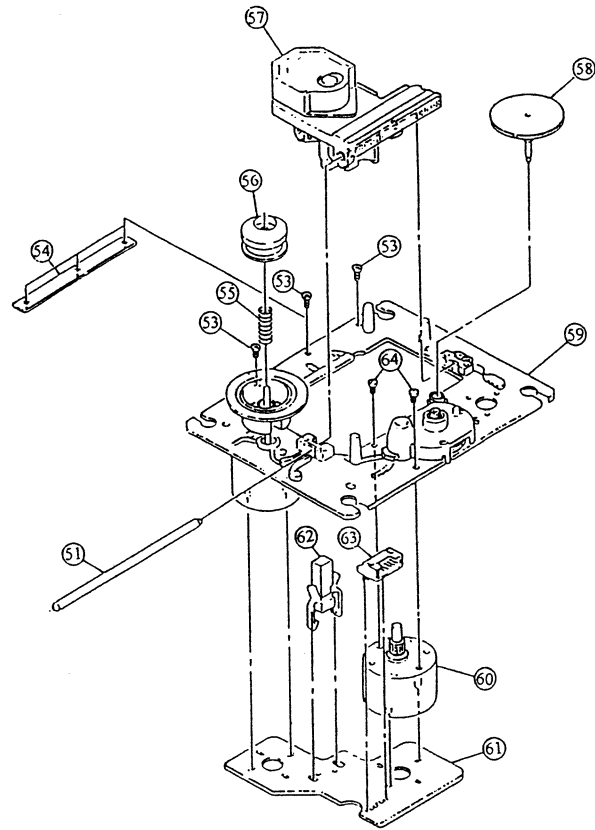
MECHANISM EXPLODED VIEW



MECHANISM EXPLODED VIEW PARTS LIST

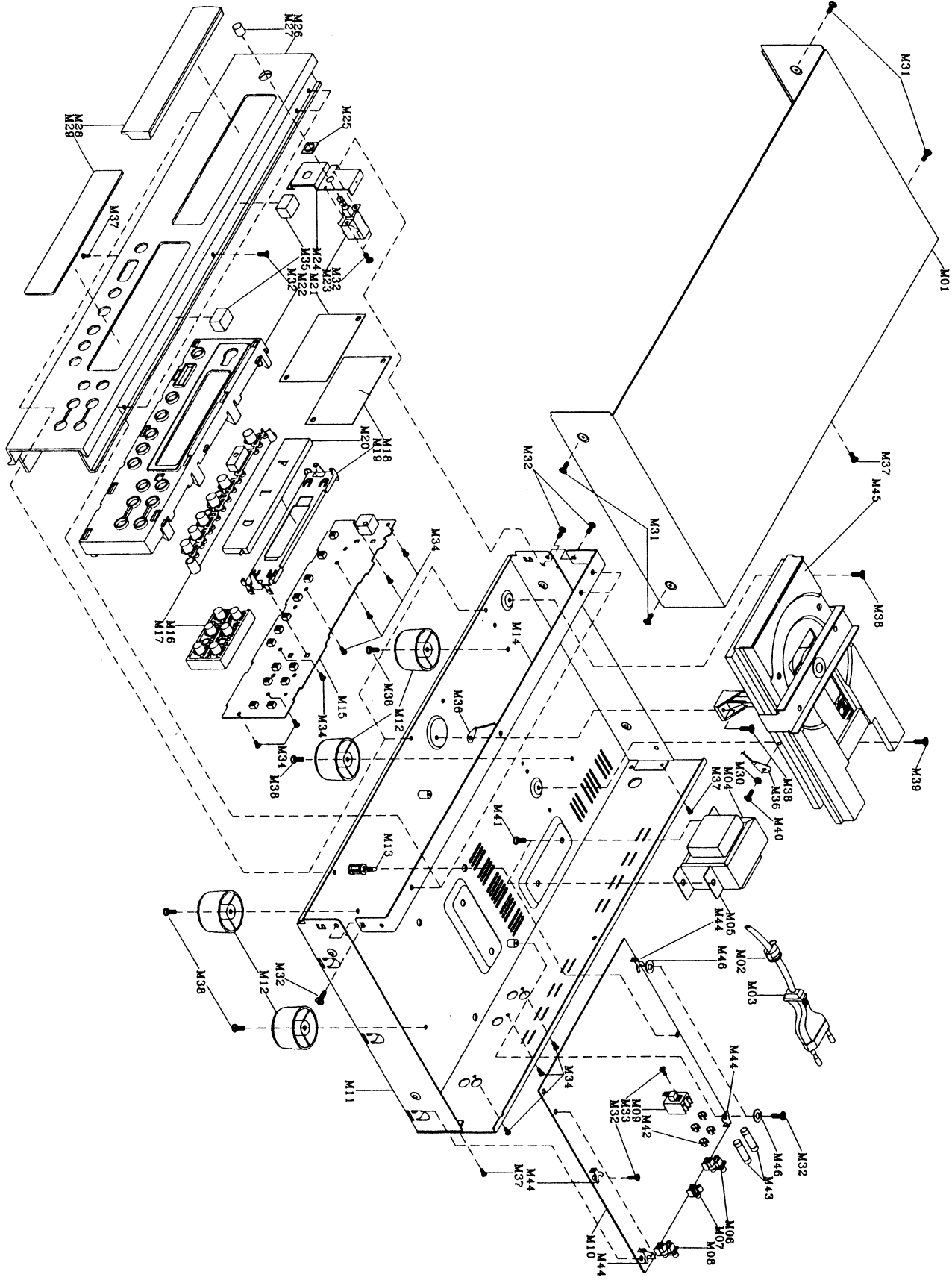
| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|-----|---------------|---------------------------|------|
| 1 | 2-642-156-02 | TRAY (SP) | 1 |
| 2 | 2-642-125-01 | DAMPER | 2 |
| 3 | 2-642-157-03 | TAPE, FRONT | 1 |
| 4 | 7-685-547-19 | SCREW + BTP3 x 10 | 5 |
| 5 | 2-642-181-02 | PULLEY(AU), CHUCKING | 1 |
| 6 | 2-642-165-01 | CHASSIS(S), CHUCK | 1 |
| 7 | 7-685-862-01 | SCREW + BVTT 2.6 x 6 | 13 |
| 8 | 2-642-439-01 | DAMPER, YOKE | 1 |
| 9 | 1-452-493-21 | MAGNET | 1 |
| 10 | 2-642-175-01 | YOKE (SP), CHUCKING | 1 |
| 11 | 2-642-149-02 | COVER(SP), GEAR | 1 |
| 12 | 2-642-142-01 | SCREW, WASHER | 4 |
| 13 | — | DRIVE UNIT | 1 |
| 14 | 2-642-169-02 | ROLLER (SP) | 1 |
| 15 | 2-642-159-01 | PLATE (T) (SP) | 4 |
| 16 | X-2642-105-02 | CHASSIS ASSY (SP), SUB | 1 |
| 17 | 2-642-158-01 | INSULATOR (C) | 4 |
| 18 | 2-642-139-02 | SPRING (A) | 2 |
| 19 | 2-642-137-02 | SPRING (B) | 2 |
| 20 | 2-642-160-02 | SHAFT (T) (SP) | 4 |
| 21 | 2-642-170-01 | RETAINER (SP), HINGE | 1 |
| 22 | 2-642-164-01 | HINGE (SP) | 1 |
| 23 | 7-685-535-19 | SCREW + BTP2.6 x 10 | 1 |
| 24 | 4-812-554-01 | WASHER | 1 |
| 25 | 2-642-154-03 | GEAR (SP), DRIVE | 1 |
| 26 | 3-653-387-01 | BELT, LM | 1 |
| 27 | 3-558-708-21 | WASHER, STOPPER | 2 |
| 28 | 4-913-731-01 | PULLEY, LOADING | 1 |
| 29 | 7-685-781-01 | SCREW + PIT 2 x 4 | 4 |
| 30 | 2-642-148-01 | GEAR (SP), MIDWAY | 1 |
| 31 | 2-642-162-03 | HOLDER(REAR) (SP), TRAY | 2 |
| 32 | 2-642-147-02 | GUIDE(LEFT) (SP), TRAY | 1 |
| 33 | 2-642-146-02 | GUIDE (RIGHT) (SP), TRAY | 1 |
| 34 | 7-621-775-00 | SCREW + B2.6 x 3 | 2 |
| 35 | 2-642-161-01 | HOLDER (FRONT) (SP), TRAY | 2 |
| 36 | X-2642-106-2 | CAHSSIS ASSY (SP), MAIN | 1 |
| 37 | 2-642-512-01 | BOSS (REAR) | 1 |
| 38 | 7-685-851-01 | SCREW + BVTT 2 x 4 | 1 |
| 39 | 1-572-052-11 | SWITCH, LEAF | 1 |
| 40 | 2-642-510-01 | BOSS (RIGHT) | 1 |
| 41 | 2-642-511-01 | BOSS (LEFT) | 1 |
| 42 | 2-642-153-01 | CAM (SP), CONTROL | 1 |
| 43 | 2-642-173-01 | PLATE (SP), LINK | 1 |
| 44 | X-2642-109-1 | LINK ASSY(AU), STOPPER | 1 |
| 45 | 2-642-133-02 | BOSS | 1 |
| 46 | 2-642-172-01 | SPACER (SP) | 1 |
| 47 | 7-682-902-31 | SCREW 2.6 x 8 STPWH | 1 |
| 48 | 1-564-721-11 | PIN, CONNECTOR 5P | 1 |
| 49 | 1-624-793-21 | PC BOARD, MOTOR | 1 |
| 50 | X-2641-336-1 | MOTOR ASSY (RP) | 1 |

EXPLODED VIEW AND PARTS LIST OF DRIVE UNIT



| NO. | PARTS NO. | DESCRIPTION | QTY |
|-----|--------------|---------------------------|-----|
| 51 | 4-917-565-01 | SHAFT (S), SLED | 1 |
| 52 | | Missing number | - |
| 53 | 2-641-386-01 | SCREW (2x5), TAPPING (S) | 3 |
| 54 | 2-625-625-01 | REINFORCEMENT (S) | 1 |
| 55 | 2-625-191-01 | SPRING (S), COMPRESSION | 1 |
| 56 | 2-625-187-01 | RING (LO) (S), CENTER | 1 |
| 57 | 8-848-127-31 | PICK UP KSS-210A (S) (RP) | 1 |
| 58 | 2-625-188-02 | GEAR (A) (S) | 1 |
| 59 | X-2625-317-1 | CHASSIS ASSY (MT) N, TT | 1 |
| 60 | X-2625-365-1 | GEAR ASSY (MT), MOTOR | 1 |
| 61 | 1-636-788-13 | PC BOARD, MOTOR (4P) (S) | 1 |
| 62 | 1-572-085-12 | SWITCH, LEAF | 1 |
| 63 | 1-564-720-11 | PIN, CONNECTOR 4P | 1 |
| 64 | 7-621-255-15 | SCREW + P2 x 3 | 1 |

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

| ITEM | PART NO. | DESCRIPTION | Q'TY |
|------------|---------------|--|------|
| M01 | 122-00514-002 | TOP COVER | 1 |
| M02 | 055-07150-001 | POWER CORD STOPPER SR-4N-4 | 1 |
| M03*AH | 043-00100-001 | AC POWER CORD (UL TYPE) | 1 |
| M03*B | 043-01250-001 | AC POWER CORD (UK TYPE) | 1 |
| M03*B1 | 043-05602-001 | AC POWER CORD (SAA TYPE) | 1 |
| M03*C | 043-04602-001 | AC POWER CORD (EU TYPE) | 1 |
| M04 | 048-00514-001 | TRANSFORMER (115/230V 60/50HZ) | 1 |
| M05 | 105-00405-008 | TRANSFORMER BRACKET | 2 |
| M09 | 111-00514-001 | HEAT SINK | 1 |
| M11*AH | 122-00514-003 | BOTTOM CHASSIS (120V) | 1 |
| M11*B/B1/C | 122-00514-001 | BOTTOM CHASSIS (220-240V) | 1 |
| M12 | 113-00501-001 | FOOT | 4 |
| M13 | 055-00301-001 | PCB SPACER (SCB-8) | 1 |
| M14 | 105-00514-001 | FIX BRACKET | 1 |
| M16 | 102-00514-001 | CONTROL BUTTON A | 1 |
| M17 | 102-00514-002 | CONTROL BUTTON B | 1 |
| M19 | 106-00514-001 | FLD HOLDER | 1 |
| M21 | 114-00514-001 | INSULATION PLATE (111x64x1T 94V-0) | 1 |
| M22 | 121-00514-001 | SUB CHASSIS | 1 |
| M23 | 023-07150-004 | POWER SWITCH | 1 |
| M24 | 105-00514-002 | POWER SW BRACKET | 1 |
| M25 | 106-00514-002 | BEZEL | 1 |
| M26 | 103-00514-001 | FRONT PANEL | 1 |
| M27 | 102-00501-001 | POWER BUTTON | 1 |
| M28 | 118-00514-001 | CD DOOR | 1 |
| M29 | 101-00514-001 | DISPLAY WINDOW | 1 |
| M30 | 125-26050-001 | OUTGEAR WASHER φ2.6 | 1 |
| M31 | 149-00501-001 | SCREW (BID M4x6 W/WASHER) | 4 |
| M32 | 129-03006-013 | TAPPING SCREW (PS φ3x6R) | 14 |
| M33 | 128-03008-013 | TAPPING SCREW (PS φ3x8R) | 1 |
| M34 | 130-03010-013 | TAPPING SCREW (PS φ3x10R) | 10 |
| M35 | 112-00514-001 | SPONGE (15x10x5T) | 2 |
| M36 | 125-00030-001 | LUG 3φ | 2 |
| M37 | 129-03006-014 | TAPPING SCREW (PS φ3x6R) | 6 |
| M38 | 129-03006-W13 | TAPPING SCREW (PS φ3x6R W/φ8 WASHER) | 6 |
| M39 | 129-04006-W13 | TAPPING SCREW (PS φ4x6R W/φ8 WASHER) | 1 |
| M40 | 129-02606-013 | TAPPING SCREW (PS φ2.6x6R) | 1 |
| M41 | 131-04010-W13 | MACHINE SCREW (PM φ4x10R W/φ10 WASHER) | 2 |
| M42 | 106-00301-001 | FUSE HOLDER (WL210A) | 4 |
| M44 | 115-00117-001 | EARTH PLATE | 4 |
| M45 | 049-00514-001 | CD MECHANISM (KSL-2102AAM) | 1 |
| M46 | 125-32140-001 | WASHER (φ14xφ3.2x0.8t Ni) | 2 |

PARTS LIST

NAD-514 PARTS LIST

| SYMBOL NO. | REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|----------------|---------------|-----------------|-------------------------|--------------------------|
| MAIN PCB ASS'Y | | (610-00514-001) | NAD-514 | 1 |
| PC BOARD PCB 1 | 001-00514-A01 | 001-00514-A01 | MAIN PCB (245x195x1.6T) | 1 |
| CAPACITORS | | | | |
| C101 | 089-10702-010 | 089-10702-010 | CAP. EL. | 100uFKBT +/-10% 10V 1 |
| C102 | 087-15001-000 | 087-15001-000 | CAP. CER. | 15PFJYT NPO +/-5% 50V 1 |
| C103 | 088-56201-050 | 088-56201-050 | CAP. MYLAR | 0.0056uFJYT +/-5% 50V 1 |
| C104 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C105 | 089-10502-050 | 089-10502-050 | CAP. EL. | 1uFKBT +/-10% 50V 1 |
| C106 | 089-10602-025 | 089-10602-025 | CAP. EL. | 10uFKBT +/-10% 25V 1 |
| C107 | 088-18301-050 | 088-18301-050 | CAP. MYLAR | 0.018uFJT +/-5% 50V 1 |
| C108 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C109, C110 | 097-22201-063 | 097-22201-063 | CAP. M.P.E. | 0.0022uFJYS +/-5% 63V 2 |
| C111 | 097-47201-063 | 097-47201-063 | CAP. M.P.E. | 0.0047uFJYS +/-5% 63V 1 |
| C112, C113 | 097-10301-063 | 097-10301-063 | CAP. M.P.E. | 0.01uFJYS +/-5% 63V 1 |
| C114 | 089-47402-050 | 089-47402-050 | CAP. EL. | 0.47uFKBT +/-10% 50V 1 |
| C115 | 097-10301-063 | 097-10301-063 | CAP. M.P.E. | 0.01uFJYS +/-5% 63V 1 |
| C116 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C117 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C118 | 097-33301-063 | 097-33301-063 | CAP. M.P.E. | 0.033uFJYS +/-5% 63V 1 |
| C119 | 089-47402-050 | 089-47402-050 | CAP. EL. | 0.47uFKBT +/-10% 50V 1 |
| C120 | 097-10201-063 | 097-10201-063 | CAP. M.P.E. | 0.001uFJYS +/-5% 63V 1 |
| C121 | 087-10101-050 | 087-10101-050 | CAP. CER. | 100PFJYT +/-5% 50V 1 |
| C122, C123 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 2 |
| C124 | 097-10201-063 | 097-10201-063 | CAP. M.P.E. | 0.001uFJYS +/-5% 63V 1 |
| C125 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.01uFJYS +/-5% 63V 1 |
| C126, C127 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.1uFJYS +/-5% 63V 2 |
| C128 | 089-47502-050 | 089-47502-050 | CAP. EL. | 4.7uFKBT +/-10% 50V 1 |
| C129 | 097-33301-063 | 097-33301-063 | CAP. M.P.E. | 0.033uFJYS +/-5% 63V 1 |
| C130 | 089-10602-025 | 089-10602-025 | CAP. EL. | 10uFKBT +/-10% 25V 1 |
| C131 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.1uFJYS +/-5% 63V 1 |
| C132 | 097-10301-063 | 097-10301-063 | CAP. M.P.E. | 0.01uFJYS +/-5% 63V 1 |
| C133 | 097-10201-063 | 097-10201-063 | CAP. M.P.E. | 0.001uFJYS +/-5% 63V 1 |
| C134 | 089-22502-050 | 089-22502-050 | CAP. EL. | 2.2uFKBT +/-10% 50V 1 |
| C135 | 089-22602-025 | 089-22602-025 | CAP. EL. | 22uFKBT +/-10% 25V 1 |
| C136 | 087-39101-050 | 087-39101-050 | CAP. CER. | 390PFJYT +/-5% 50V 1 |
| C137 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C138 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.1uFJYS +/-5% 63V 1 |
| C141 | 089-33702-010 | 089-33702-010 | CAP. EL. | 330uFKBT +/-10% 10V 1 |
| C142 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C143 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C144 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.1uFJYS +/-5% 63V 1 |
| C145 | 089-22602-025 | 089-22602-025 | CAP. EL. | 22uFKBT +/-10% 25V 1 |
| C146 | 097-10201-063 | 097-10201-063 | CAP. M.P.E. | 0.001uFJYS +/-5% 63V 1 |
| C147 | 097-22201-063 | 097-22201-063 | CAP. M.P.E. | 0.0022uFJYS +/-5% 63V 1 |
| C148 | 010-47702-025 | 010-47702-025 | CAP. EL. | 470uFKB +/-10% 25V 1 |
| C149 | 089-33702-010 | 089-33702-010 | CAP. EL. | 330uFKBT +/-10% 10V 1 |
| C150 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C151, C152 | 087-06001-000 | 087-06001-000 | CAP. CER. | 6PFJYT NPO +/-5% 50V 2 |
| C153 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C154 | 089-47502-050 | 089-47502-050 | CAP. EL. | 4.7uFKBT +/-10% 50V 1 |
| C155 | 089-47402-050 | 089-47402-050 | CAP. EL. | 0.47uFKBT +/-10% 50V 1 |
| C156 | 087-47203-500 | 087-47203-500 | CAP. CER. | 0.0047uFZYT +/-80% 50V 1 |
| C157, C158 | 089-47702-010 | 089-47702-010 | CAP. EL. | 470uFKBT +/-10% 10V 2 |
| C159 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C160 | 010-47802-025 | 010-47802-025 | CAP. EL. | 4700uFKB +/-10% 25V 1 |
| C161 | 010-22802-025 | 010-22802-025 | CAP. EL. | 2200uFKB +/-10% 25V 1 |
| C162 | 010-10802-025 | 010-10802-025 | CAP. EL. | 1000uFKB +/-10% 25V 1 |
| C163 | 089-47502-050 | 089-47502-050 | CAP. EL. | 4.7uFKBT +/-10% 50V 1 |
| C164 | 089-47702-016 | 089-47702-016 | CAP. EL. | 470uFKBT +/-10% 16V 1 |
| C165 | 010-10802-025 | 010-10802-025 | CAP. EL. | 1000uFKB +/-10% 25V 1 |
| C166 | 089-10502-050 | 089-10502-050 | CAP. EL. | 1uFKBT +/-10% 50V 1 |
| C167 | 089-47702-016 | 089-47702-016 | CAP. EL. | 470uFKBT +/-10% 16V 1 |
| C168 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C169 | 089-10702-050 | 089-10702-050 | CAP. EL. | 100uFKBT +/-10% 50V 1 |
| C170 | 089-47602-050 | 089-47602-050 | CAP. EL. | 47uFKBT +/-10% 50V 1 |
| C171, C173 | 061-22303-050 | 061-22303-050 | CAP. M.C. | 0.022uFJT +/-5% 50V 3 |
| C174 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C175 | 089-10602-050 | 089-10602-050 | CAP. EL. | 10uFKBT +/-10% 50V 1 |
| C176 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C177, C178 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C179 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |
| C180, C181 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C182 | 089-47602-025 | 089-47602-025 | CAP. EL. | 47uFKBT +/-10% 25V 1 |

NAD-514 PARTS LIST

| SYMBOL NO. | REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|------------|---------------|---------------|-------------|--------------------------|
| C183 | 087-10101-050 | 087-10101-050 | CAP. CER. | 100PFJYT +/-5% 50V 1 |
| C184 | 097-10301-063 | 097-10301-063 | CAP. M.P.E. | 0.01uFJYS +/-5% 63V 1 |
| C185, C186 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C187 | 097-10401-063 | 097-10401-063 | CAP. M.P.E. | 0.1uFJYS +/-5% 63V 1 |
| C188, C189 | 089-22502-050 | 089-22502-050 | CAP. EL. | 2.2uFKBT +/-10% 50V 2 |
| C190, C191 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C201 | 089-47702-010 | 089-47702-010 | CAP. EL. | 4.70uFKBT +/-10% 10V 1 |
| C202, C203 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C204 | 089-47702-010 | 089-47702-010 | CAP. EL. | 4.70uFKBT +/-10% 10V 1 |
| C205, C206 | 079-20101-100 | 079-20101-100 | CAP. PP | 200PFJYT +/-5% 100V 2 |
| C207, C208 | 087-47001-000 | 087-47001-000 | CAP. CER. | 4.7PFJYT NPO +/-5% 50V 2 |
| C209 | 079-12201-050 | 079-12201-050 | CAP. PP | 0.0012uFJYT +/-5% 50V 1 |
| C210 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C211 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C212 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C213, C214 | 089-10702-025 | 089-10702-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 2 |
| C215 | 088-33201-050 | 088-33201-050 | CAP. MYLAR | 0.0033uFJT +/-5% 50V 1 |
| C216 | 079-15301-050 | 079-15301-050 | CAP. PP | 0.015uFJYT +/-5% 50V 1 |
| C217 | 079-12201-050 | 079-12201-050 | CAP. PP | 0.0012uFJYT +/-5% 50V 1 |
| C218 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C219 | 089-47602-025 | 089-47602-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 1 |
| C220 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C221 | 079-15101-050 | 079-15101-050 | CAP. PP | 150PFJYT +/-5% 50V 1 |
| C222 | 089-10702-025 | 089-10702-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 1 |
| C223 | 014-47401-050 | 014-47401-050 | CAP. M.P.F. | 0.47uFJY +/-5% 50V 1 |
| C224, C225 | 087-10323-050 | 087-10323-050 | CAP. CER. | 0.01uFZYT F +/-80% 50V 2 |
| C226 | 097-22201-063 | 097-22201-063 | CAP. M.P.E. | 0.0022uFJYS +/-5% 63V 1 |
| C227 | 089-33702-010 | 089-33702-010 | CAP. EL. | 330uFKBT +/-10% 10V 1 |
| C241 | 014-47401-050 | 014-47401-050 | CAP. M.P.F. | 0.47uFJY +/-5% 50V 1 |
| C301 | 089-47702-010 | 089-47702-010 | CAP. EL. | 4.70uFKBT +/-10% 10V 1 |
| C302, C303 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 2 |
| C304 | 089-47702-010 | 089-47702-010 | CAP. EL. | 4.70uFKBT +/-10% 10V 1 |
| C305, C306 | 079-20101-100 | 079-20101-100 | CAP. PP | 200PFJYT +/-5% 100V 2 |
| C307, C308 | 087-47001-000 | 087-47001-000 | CAP. CER. | 4.7PFJYT NPO +/-5% 50V 2 |
| C309 | 079-12201-050 | 079-12201-050 | CAP. PP | 0.0012uFJYT +/-5% 50V 1 |
| C310 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C311 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C312 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C313, C314 | 089-10702-025 | 089-10702-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 2 |
| C315 | 088-33201-050 | 088-33201-050 | CAP. MYLAR | 0.0033uFJT +/-5% 50V 1 |
| C316 | 079-15301-050 | 079-15301-050 | CAP. PP | 0.015uFJYT +/-5% 50V 1 |
| C317 | 079-12201-050 | 079-12201-050 | CAP. PP | 0.0012uFJYT +/-5% 50V 1 |
| C318 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |
| C319 | 089-47602-025 | 089-47602-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 1 |
| C320 | 061-47303-050 | 061-47303-050 | CAP. M.C. | 0.047uFZYT +/-80% 50V 1 |
| C321 | 079-15101-050 | 079-15101-050 | CAP. PP | 150PFJYT +/-5% 50V 1 |
| C322 | 089-10702-025 | 089-10702-025 | CAP. EL. | 4.7uFKBT +/-10% 25V 1 |
| C323 | 014-47401-050 | 014-47401-050 | CAP. M.P.F. | 0.47uFJY +/-5% 50V 1 |
| C324, C325 | 087-10323-050 | 087-10323-050 | CAP. CER. | 0.01uFZYT F +/-80% 50V 2 |
| C326 | 097-22201-063 | 097-22201-063 | CAP. M.P.E. | 0.0022uFJYS +/-5% 63V 1 |
| C327 | 089-33702-010 | 089-33702-010 | CAP. EL. | 330uFKBT +/-10% 10V 1 |
| C341 | 014-47401-050 | 014-47401-050 | CAP. M.P.F. | 0.47uFJY +/-5% 50V 1 |
| C501 | 089-10502-050 | 089-10502-050 | CAP. EL. | 1uFKBT +/-10% 50V 1 |
| C502-C504 | 087-22001-000 | 087-22001-000 | CAP. CER. | 15PFJYT NPO +/-5% 50V 1 |
| C505 | 061-10403-050 | 061-10403-050 | CAP. M.C. | 0.1uFZYT +/-80% 50V 1 |

NAD-514 PARTS LIST

| SYMBOL NO. | REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|--------------------|----------------|---------------|-----------------------------|-----------------------|
| CERAMIC FILTER | | | | |
| EF101 | DSS310-558271M | 016-55271-100 | CERAMIC FILTER | DSS310-558271M 100V 1 |
| FUSES | | | | |
| F101, F102*AH | 025-00501-007 | 025-00501-007 | FUSE 5.2x20 T-LAG | 0.63A/250V UL/CSA 1 |
| F101, F102*B/B1/C | 025-01600-009 | 025-01600-009 | FUSE 5.2x20 T-LAG | 0.63A/250V SEMKO 1 |
| ICS | | | | |
| IC101 | CXA1081S | 020-01081-CXA | IC, SERVO PROCESS | CXA1081S 1 |
| IC102 | CXA1082BS | 020-01082-CXA | IC, LSI DC DSP | CXA1082BS 1 |
| IC103 | CXD11670 | 020-M1167-CXD | IC, LSI DC DSP | CXD11670 1 |
| IC104 | PST5200 | 020-00520-PST | IC | PST5200 1 |
| IC105 | UPD75208CW-B17 | 020-75208-UPD | IC, u-COM | UPD75208CW-B17 1 |
| IC106 | 8A6109 | 020-06109-08A | IC | 8A6109 1 |
| IC107 | YM34128F | 020-M3412-OYM | IC | YM34128F 1 |
| IC108 | MN6474M | 020-06474-OMN | IC, D/A CPNVERTER | MN6474M, 18 BIT 1 |
| IC109 | AD712JN | 020-00712-OAD | IC, OPAMP | AD712JN 1 |
| IC110 | NE5532N | 020-05532-ONE | IC, OPAMP | NE5532N 1 |
| IC111 | AD712JN | 020-00712-OAD | IC, OPAMP | AD712JN 1 |
| IC116 | PC74HCT00M | 020-07400-HCT | IC | PC74HCT00M(DIL) 1 |
| IC118 | M51957BL | 020-51957-00M | IC | M51957BL 1 |
| IC119 | M5230L | 020-05230-00M | IC | M5230L 1 |
| IC120 | UPC7805H | 020-07805-UPC | IC, VOLTAGE REG. | UPC7805H +5V 1A 1 |
| IC121 | NJM79M05 | 020-79M05-NJM | IC, VOLTAGE REG. | NJM79M05 -5V 1A 1 |
| IC122 | M5293 | 020-05293-00M | IC | M5293 1 |
| IC501 | C25311NF | 020-25311-00C | IC, NAD LINK | C25311NF 1 |
| FUSE | | | | |
| IP101, IP102 | ICP-N10 | 090-001CP-N10 | FUSE, (TR. TYPE) | ICP-N10 1 |
| RCA JACKS | | | | |
| J101 | HSP-242V2-02G | 027-00514-001 | RCA JACK, 2P(GOLD,W/SHILED) | HSP-242V2-02G BLK 1 |
| J102 | HSP-241V1B | 027-00514-002 | RCA JACK, 1P(W/SHILED) | HSP-241V1B BLK 1 |
| J501 | HSP-242V-09 | 027-00514-003 | RCA JACK, 2P | HSP-242V-09 YELLOW 1 |
| JUMPERS(RES. TYPE) | | | | |
| JP.. | 085-52000-804 | 085-52000-804 | RES., CARBON FILM | 0 OHM 103 |
| COILS | | | | |
| L101 | 019-00514-002 | 019-00514-002 | CHOCK COIL | 10uH 1 |
| TRANSISTORS | | | | |
| Q101 | 2S81237R-TV6 | 090-01237-TV6 | TR., PNP | 2S81237R-TV6 1 |
| Q102 | 2S01858R-TV6 | 090-01858-TV6 | TR., NPN | 2S01858R-TV6 1 |
| Q103 | 2S81237R-TV6 | 090-01237-TV6 | TR., PNP | 2S81237R-TV6 1 |
| Q104 | 2S01858R-TV6 | 090-01858-TV6 | TR., NPN | 2S01858R-TV6 1 |
| Q105 | 2S81237R-TV6 | 090-01237-TV6 | TR., PNP | 2S81237R-TV6 1 |
| Q106 | 2S01858R-TV6 | 090-01858-TV6 | TR., NPN | 2S01858R-TV6 1 |
| Q107 | 2S81237R-TV6 | 090-01237-TV6 | TR., PNP | 2S81237R-TV6 1 |
| Q108 | 2S01858R-TV6 | 090-01858-TV6 | TR., NPN | 2S01858R-TV6 1 |
| Q109 | 2S81237R-TV6 | 090-01237-TV6 | TR., PNP | 2S81237R-TV6 1 |
| Q110 | DTA114-ES | 090-00114-00A | TR., PNP | DTA114-ES 1 |
| Q111 | DTA114-ES | 090-00114-00A | TR., PNP | DTA114-ES 1 |
| Q112 | DTA114-ES | 090-00114-00A | TR., PNP | DTA114-ES 1 |
| Q113 | DTA114-ES | 090-00114-00A | TR., PNP | DTA114-ES 1 |
| Q114 | DTA114-ES | 090-00114-00A | TR., PNP | DTA114-ES 1 |
| Q115 | 2S81185-F | 021-01185-006 | TR., PNP | 2S81185-F 1 |
| Q116 | 2S01762-F | 021-01762-006 | TR., NPN | 2S01762-F 1 |
| Q201, Q202 | 2SA1015-Y | 090-A1015-025 | TR., PNP HF | 2SA1015-Y 2 |
| Q203-Q206 | 2SC2878-A | 090-02878-001 | TR., NPN HF | 2SC2878-A 4 |
| Q301, Q302 | 2SA1015-Y | 090-A1015-025 | TR., PNP HF | 2SA1015-Y 2 |
| Q303-Q306 | 2SC2878-A | 090-02878-001 | TR., NPN HF | 2SC2878-A 4 |
| Q502 | 2SC1815-Y | 090-01815-025 | TR., NPN HF | 2SC1815-Y 1 |
| Q503 | 2SA1015-Y | 090-A1015-025 | TR., PNP HF | 2SA1015-Y 1 |
| RESISTORS | | | | |
| R101 | 075-52221-F02 | 075-52221-F02 | RES., METAL FILM | 22 FT +/-1% 1/2W 1 |
| R102 | 075-52911-F04 | 075-52911-F04 | RES., METAL FILM | 91 FT +/-1% 1/4W 1 |
| R103 | 075-52103-F08 | 075-52103-F08 | RES., METAL FILM | 1K FT +/-1% 1/8W 1 |
| R104 | 075-52223-F08 | 075-52223-F08 | RES., METAL FILM | 2.2K FT +/-1% 1/8W 1 |
| R105 | 075-52124-F08 | 075-52124-F08 | RES., METAL FILM | 12K FT +/-1% 1/8W 1 |
| R106 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM | 10K FT +/-1% 1/8W 1 |
| R107 | 075-52223-F08 | 075-52223-F08 | RES., METAL FILM | 2.2K FT +/-1% 1/8W 1 |
| R108 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM | 2.2K FT +/-1% 1/8W 1 |
| R109-R111 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM | 10K FT +/-1% 1/8W 3 |
| R112 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM | 22K FT +/-1% 1/8W 1 |

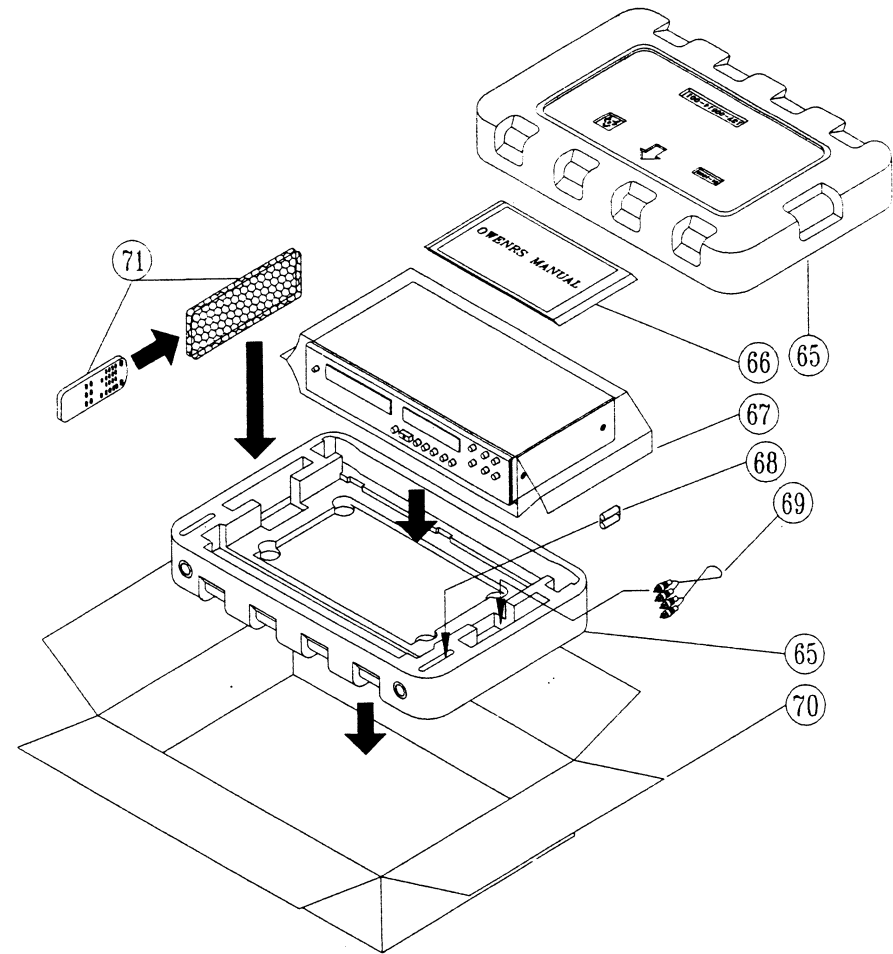
NAD-514 PARTS LIST

| SYMBOL NO. | REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|------------|---------------|---------------|---------------------------------------|------|
| R113 | 075-52334-F08 | 075-52334-F08 | RES., METAL FILM 33K FT +/-1% 1/8W 1 | |
| R114 | 075-52105-F08 | 075-52105-F08 | RES., METAL FILM 100K FT +/-1% 1/8W 1 | |
| R115 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 1 | |
| R116 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R117 | 075-52102-F08 | 075-52102-F08 | RES., METAL FILM 100 FT +/-1% 1/8W 1 | |
| R118 | 075-52125-F08 | 075-52125-F08 | RES., METAL FILM 120K FT +/-1% 1/8W 1 | |
| R119 | 075-52102-F08 | 075-52102-F08 | RES., METAL FILM 100 FT +/-1% 1/8W 1 | |
| R120 | 075-52125-F08 | 075-52125-F08 | RES., METAL FILM 120K FT +/-1% 1/8W 1 | |
| R121 | 075-52225-F08 | 075-52225-F08 | RES., METAL FILM 220K FT +/-1% 1/8W 1 | |
| R122 | 075-52102-F08 | 075-52102-F08 | RES., METAL FILM 100 FT +/-1% 1/8W 1 | |
| R123 | 075-52125-F08 | 075-52125-F08 | RES., METAL FILM 120K FT +/-1% 1/8W 1 | |
| R124 | 075-52102-F08 | 075-52102-F08 | RES., METAL FILM 100 FT +/-1% 1/8W 1 | |
| R125 | 075-52105-F08 | 075-52105-F08 | RES., METAL FILM 100K FT +/-1% 1/8W 1 | |
| R126 | 075-52683-F08 | 075-52683-F08 | RES., METAL FILM 6.8K FT +/-1% 1/8W 1 | |
| R127 | 075-52334-F08 | 075-52334-F08 | RES., METAL FILM 33K FT +/-1% 1/8W 1 | |
| R128 | 075-52515-F08 | 075-52515-F08 | RES., METAL FILM 510K FT +/-1% 1/8W 2 | |
| R129, R130 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R131 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM 22K FT +/-1% 1/8W 1 | |
| R132 | 075-52105-F08 | 075-52105-F08 | RES., METAL FILM 100K FT +/-1% 1/8W 1 | |
| R133 | 075-52333-F08 | 075-52333-F08 | RES., METAL FILM 3.3K FT +/-1% 1/8W 1 | |
| R134 | 075-52155-F08 | 075-52155-F08 | RES., METAL FILM 150K FT +/-1% 1/8W 1 | |
| R135 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R136 | 075-52474-F04 | 075-52474-F04 | RES., METAL FILM 47K FT +/-1% 1/4W 1 | |
| R137 | 075-52474-F04 | 075-52474-F04 | RES., METAL FILM 47K FT +/-1% 1/4W 1 | |
| R138 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R140-R143 | 075-52152-F04 | 075-52152-F04 | RES., METAL FILM 150 FT +/-1% 1/4W 4 | |
| R144 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R145 | 075-52223-F08 | 075-52223-F08 | RES., METAL FILM 2.2K FT +/-1% 1/8W 1 | |
| R146 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 1 | |
| R147 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM 22K FT +/-1% 1/8W 1 | |
| R148 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R149 | 075-52152-F08 | 075-52152-F08 | RES., METAL FILM 150 FT +/-1% 1/8W 1 | |
| R150 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R151 | 075-52564-F08 | 075-52564-F08 | RES., METAL FILM 56K FT +/-1% 1/8W 1 | |
| R152 | 075-52184-F08 | 075-52184-F08 | RES., METAL FILM 18K FT +/-1% 1/8W 1 | |
| R153 | 083-03102-J20 | 083-03102-J20 | RES., FUSIBLE 100 JR +/-5% 24 1 | |
| R154 | 075-52393-F08 | 075-52393-F08 | RES., METAL FILM 3.9K FT +/-1% 1/8W 1 | |
| R155 | 075-52222-F04 | 075-52222-F04 | RES., METAL FILM 220 FT +/-1% 1/4W 1 | |
| R156, R157 | 075-52154-F08 | 075-52154-F08 | RES., METAL FILM 15K FT +/-1% 1/8W 2 | |
| R158 | 075-52562-F08 | 075-52562-F08 | RES., METAL FILM 56K FT +/-1% 1/8W 1 | |
| R159 | 075-52303-F08 | 075-52303-F08 | RES., METAL FILM 3K FT +/-1% 1/8W 1 | |
| R160 | 075-52562-F08 | 075-52562-F08 | RES., METAL FILM 56K FT +/-1% 1/8W 1 | |
| R161 | 075-52222-F04 | 075-52222-F04 | RES., METAL FILM 220 FT +/-1% 1/4W 1 | |
| R162 | 075-52154-F08 | 075-52154-F08 | RES., METAL FILM 15K FT +/-1% 1/8W 1 | |
| R163-R166 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 4 | |
| R167 | 075-52684-F08 | 075-52684-F08 | RES., METAL FILM 68K FT +/-1% 1/8W 1 | |
| R168 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 1 | |
| R169 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R170 | 075-52751-F08 | 075-52751-F08 | RES., METAL FILM 75 FT +/-1% 1/8W 3 | |
| R171-R173 | 075-52105-F08 | 075-52105-F08 | RES., METAL FILM 100K FT +/-1% 1/8W 3 | |
| R174 | 083-03470-J04 | 083-03470-J04 | RES., FUSIBLE 4.7 JR +/-5% 1/4W 1 | |
| R175 | 083-03220-J04 | 083-03220-J04 | RES., FUSIBLE 2.2 JR +/-5% 1/4W 1 | |
| R201, R202 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 2 | |
| R203, R204 | 075-52274-F08 | 075-52274-F08 | RES., METAL FILM 27K FT +/-1% 1/8W 2 | |
| R205, R206 | 075-52474-F08 | 075-52474-F08 | RES., METAL FILM 47K FT +/-1% 1/8W 1 | |
| R207 | 075-52303-F08 | 075-52303-F08 | RES., METAL FILM 3K FT +/-1% 1/8W 1 | |
| R208 | 075-52103-F08 | 075-52103-F08 | RES., METAL FILM 1K FT +/-1% 1/8W 1 | |
| R209 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 1K FT +/-1% 1/8W 1 | |
| R210 | 075-52103-F08 | 075-52103-F08 | RES., METAL FILM 1K FT +/-1% 1/8W 1 | |
| R211 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R212, R213 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 2 | |
| R214 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R215 | 075-52822-F08 | 075-52822-F08 | RES., METAL FILM 820 FT +/-1% 1/8W 1 | |
| R216 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R217 | 075-52225-F04 | 075-52225-F04 | RES., METAL FILM 220K FT +/-1% 1/4W 1 | |
| R218 | 075-52134-F08 | 075-52134-F08 | RES., METAL FILM 13K FT +/-1% 1/8W 1 | |
| R219 | 075-52683-F08 | 075-52683-F08 | RES., METAL FILM 6.8K FT +/-1% 1/8W 1 | |
| R220 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R221 | 075-52332-F08 | 075-52332-F08 | RES., METAL FILM 330 FT +/-1% 1/8W 1 | |
| R222 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R223 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 1 | |
| R224 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM 22K FT +/-1% 1/8W 1 | |
| R225 | 075-52224-F04 | 075-52224-F04 | RES., METAL FILM 22K FT +/-1% 1/4W 1 | |
| R226 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R227, R228 | 075-52561-F08 | 075-52561-F08 | RES., METAL FILM 56 FT +/-1% 1/8W 2 | |
| R229-R231 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 3 | |

NAD-514 PARTS LIST

| SYMBOL NO. | REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|--|---------------|---------------|---------------------------------------|------------------------------|
| R232 | 075-52561-F08 | 075-52561-F08 | RES., METAL FILM 56 FT +/-1% 1/8W 1 | |
| R301, R302 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 2 | |
| R303, R304 | 075-52274-F04 | 075-52274-F04 | RES., METAL FILM 27K FT +/-1% 1/4W 2 | |
| R305, R306 | 075-52474-F08 | 075-52474-F08 | RES., METAL FILM 47K FT +/-1% 1/8W 2 | |
| R307 | 075-52303-F08 | 075-52303-F08 | RES., METAL FILM 3K FT +/-1% 1/8W 1 | |
| R308 | 075-52103-F08 | 075-52103-F08 | RES., METAL FILM 1K FT +/-1% 1/8W 1 | |
| R309 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R310 | 075-52103-F08 | 075-52103-F08 | RES., METAL FILM 1K FT +/-1% 1/8W 1 | |
| R311 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R312, R313 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 2 | |
| R314 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R315 | 075-52822-F08 | 075-52822-F08 | RES., METAL FILM 820 FT +/-1% 1/8W 1 | |
| R316 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R317 | 075-52225-F04 | 075-52225-F04 | RES., METAL FILM 220K FT +/-1% 1/4W 1 | |
| R318 | 075-52134-F08 | 075-52134-F08 | RES., METAL FILM 13K FT +/-1% 1/8W 1 | |
| R319 | 075-52683-F08 | 075-52683-F08 | RES., METAL FILM 6.8K FT +/-1% 1/8W 1 | |
| R320 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R321 | 075-52332-F08 | 075-52332-F08 | RES., METAL FILM 330 FT +/-1% 1/8W 1 | |
| R322 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R323 | 075-52104-F04 | 075-52104-F04 | RES., METAL FILM 10K FT +/-1% 1/4W 1 | |
| R324 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM 22K FT +/-1% 1/8W 1 | |
| R325 | 075-52224-F04 | 075-52224-F04 | RES., METAL FILM 22K FT +/-1% 1/4W 1 | |
| R326 | 075-52473-F08 | 075-52473-F08 | RES., METAL FILM 4.7K FT +/-1% 1/8W 1 | |
| R327, R328 | 075-52561-F08 | 075-52561-F08 | RES., METAL FILM 56 FT +/-1% 1/8W 2 | |
| R329-R331 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 3 | |
| R332 | 075-52561-F08 | 075-52561-F08 | RES., METAL FILM 56 FT +/-1% 1/8W 1 | |
| R501 | 075-52105-F08 | 075-52105-F08 | RES., METAL FILM 100K FT +/-1% 1/8W 1 | |
| R503 | 075-52106-F08 | 075-52106-F08 | RES., METAL FILM 1M FT +/-1% 1/8W 1 | |
| R504 | 075-52474-F08 | 075-52474-F08 | RES., METAL FILM 47K FT +/-1% 1/8W 1 | |
| R505 | 075-52104-F08 | 075-52104-F08 | RES., METAL FILM 10K FT +/-1% 1/8W 1 | |
| R506 | 075-52183-F08 | 075-52183-F08 | RES., METAL FILM 1.8K FT +/-1% 1/8W 1 | |
| R507, R508 | 075-52102-F08 | 075-52102-F08 | RES., METAL FILM 100 FT +/-1% 1/8W 2 | |
| R509 | 075-52224-F08 | 075-52224-F08 | RES., METAL FILM 22K FT +/-1% 1/8W 1 | |
| R510 | 075-52183-F08 | 075-52183-F08 | RES., METAL FILM 1.8K FT +/-1% 1/8W 1 | |
| R511, R512 | 075-52102-F04 | 075-52102-F04 | RES., METAL FILM 100 FT +/-1% 1/4W 2 | |
| COILS | | | | |
| T101 | PWS-400-7583 | 019-00514-001 | COIL, DIGITAL OUTPUT | PWS-400-7583 1 |
| SEMI. RESISTOR | | | | |
| VR101-VR104 | 017-20406-301 | 017-20406-301 | VR. SEMI-FIX | 20KM b20% 0.3W 4 |
| VR105 | 017-20306-301 | 017-20306-301 | VR. SEMI-FIX | 2KM b20% 0.3W 1 |
| CRYSTAL | | | | |
| X101 | 035-88688-033 | 035-88688-033 | CRYSTAL UNIT | 33.8688MHz CL:30PF+/-30PPM 1 |
| DISPLAY AND TRANSFORMER PCB ASSY (612-00514-001) | | | NAD-514 | WITH COMPONENTS 1 |
| PC BOARD | | | | |
| PCB 2-1 | 001-10514-010 | 001-10514-010 | DISPLAY PCB(220x62x1.6T) | WITHOUT COMPONENTS 1 |
| PCB 2-2 | 001-10514-011 | 001-10514-011 | TRANSFORMER PCB(109x62x1.6T) | WITHOUT COMPONENTS 1 |
| CAPACITORS | | | | |
| C506 | 004-47203-400 | 004-47203-400 | CAP, CERAMIC | 4700PFZ +/-80% 400V 1 |
| DIODES | | | | |
| D501-D507 | 022-00176-1SS | 022-00176-1SS | DIODE | 1SS176 7 |
| FL DISPLAY | | | | |
| FL501 | FV467G | 025-00514-001 | FLD(GREEN TUBE) | FV467G 1 |
| INFRARED RECEIVER MODULE | | | | |
| RC501 | SBX1610-52 | 025-02685-004 | INFRARED RECEIVER MODULE | SBX1610-52 1 |
| TACT SWITCHES | | | | |
| S501-S513 | SKHHAB2510 | 023-00425-001 | TACT SWITCH | SKHHAB2510 13 |
| TRANSFORMER | | | | |
| T501 | 048-00514-001 | 048-00514-001 | TRANSFORMER (E1-54) | S-3664 115/230V 60/50HZ 1 |

PACKING DIAGRAM



| ITEM | PARTS NO. | DESCRIPTION | Q'TY |
|------|---------------|----------------------|------|
| 65 | 137-00514-001 | POLYFOAM | 2 |
| 66 | 134-00514-001 | INSTRUCTION BOOK | 1 |
| 67 | 138-00501-001 | PE BAG | 1 |
| 68 | 050-00015-002 | BATTERY UM-4 1.5V | 2 |
| 69 | 056-01600-001 | RCA PLUG GRY L=450MM | 1 |
| 70 | 141-00514-001 | CARTON | 1 |
| 71 | 200-00514-001 | REMOTE HANDSET | 1 |