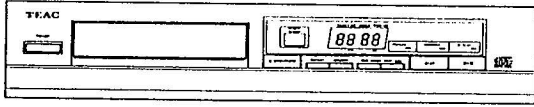


# TEAC<sup>®</sup>



## SERVICE MANUAL

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# PD-495/PD-555

Compact Disc Player

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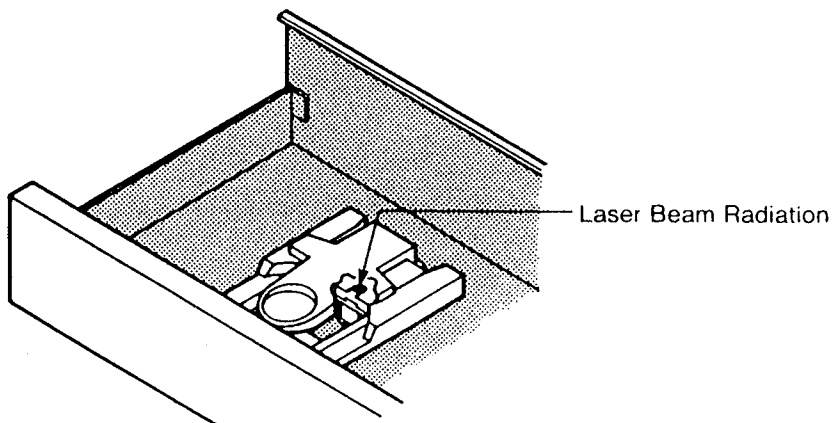
## LASER BEAM RADIATION SPOT

### Laser Diode Properties

Material: Ga-Al-As

Wavelength: 755-815nm (25°C)

Laser Output: Continuous Wave max. 0.7mW



# SAFETY CERTIFICATION

SICHERHEITSBESTIMMUNGEN / CERTIFICAT DE SÉCURITÉ / SAFETY CERTIFICATION  
SÄKERHETSFÖRESKRIFTER / VEILIGHEDSCERTIFIKAAT

**CAUTION—INVISIBLE LASER RADIATION WHEN PANEL OPEN AND INTERLOCK OVERRIDDEN.**  
1316-4159-40000 Avoid exposure to beam.

FOR AUS

## Laser Diode Properties

Material: Ga-Al-As

Wavelength: 755-815nm (25°C)

Laser Output: Continuous Wave max. 0.7mW

**CAUTION—INVISIBLE LASER RADIATION WHEN PANEL OPEN AND INTERLOCK OVERRIDDEN.**

**AVOID EXPOSURE TO BEAM**

FOR UK



AUDIO VIDEO EQUIPMENT  
ÉQUIPEMENT AUDIOVISUEL

FOR CND



**CAUTION**

RISK OF ELECTRIC SHOCK. DO NOT OPEN!



**ATTENTION**

RISQUE DE CHOCS ÉLECTRIQUES. NE PAS OUVRIR.

FOR USA,CND

CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

FOR EUR,UK,AUS,EX

THIS PRODUCT COMPLIES WITH DHS RULES 21 CFR SUBCHAPTER J PART 1040.10 AT DATE OF MANUFACTURE.

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.

FOR USA

**CAUTION** INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.  
**VORSICHT!** UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHLEN AUSSETZEN.  
**VARNING!** OSYMLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.  
**ADVARSEL!** OSYMLIG LASERSTRÅLNING VED ÅBNING NÄR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

FOR EUR,EX

**CAUTION—** THIS PRODUCT CONTAINS A LOW POWER LASER DEVICE. TO ENSURE CONTINUED SAFETY DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THE PRODUCT. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

**ACHTUNG—** WENN ANDERE ALS DIE HIER BESCHRIEBENEN BEDIENUNGS-ODER JUSTIEREINRICHTUNGEN BENÜTZT ODER ANDERE ARBEITEN AUSGEFÜHRT WERDEN, KANN DIES ZU GEFÄHRLICHER STRAHLUNGSEINWIRKUNG FÜHREN.

**ATTENTION—** L'EMPLOI D'ORGANES DE COMMANDE OU DE RÉGLAGE, OU L'EXÉCUTION DE PROCÉDURES, AUTRES QUE CEUX SPÉCIFIÉS DANS LE MODE D'EMPLOI, PEUT PROVOQUER UNE EXPOSITION DANGEREUSE AU RAYONNEMENT.

**CAUTION—** USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**VARNING—** BRUK AV KONTROLLER, JUSTERINGAR ELLER MANÖVRERING AV APPARATEN ANNAT ÄN HÄRI ANGIVNA KAN INNEBÄRA STRÅLNINGSRISK.

**OPGELET—** HET GEBRUIK VAN REGELAARS OF HET MAKEN VAN AFSTELLINGEN E.D. DIE NIET IN DEZE GEBRUIKSAANWIJZING ZIJN BESCHREVEN KAN LEIDEN TOT SCHADELIJKE STRALINGEN.

**CAUTELA—** L'USO DI COMANDI, AGGIUSTAMENTI O PROCEDIMENTI DIVERSO DA QUELLO QUI SPECIFICATO PUO DAR JOGO AD ESPOSIZIONE A RADIAZIONI PERICOLOSE.

## LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

# SPECIFICATIONS

## AUDIO CHARACTERISTICS

|                       |                           |
|-----------------------|---------------------------|
| Frequency Response    | 5 – 20,000 Hz $\pm$ 1 dB  |
| Signal-to-Noise Ratio | More than 100 dB          |
| Harmonic Distortion   | Less than 0.005 % (1 kHz) |
| Wow and Flutter       | Quartz accuracy           |
| Channel Separation    | More than 85 dB (1 kHz)   |
| Output Voltage Max.   | 2 V rms                   |

## SIGNAL FORMAT

|                    |               |
|--------------------|---------------|
| Sampling Frequency | 44.1 kHz      |
| D/A Conversion     | 16 bit linear |

## GENERAL

### Power Requirement

- 120 V AC 60 Hz for Canada, U.S.A.
- 230 V AC 50 Hz for Europe
- 240 V AC 50 Hz for Australia, U.K.
- 110/230 V AC 50/60 Hz for General export models only

### Power Consumption

9 Watts

Dimensions (W × H × D) 435 × 90 × 290 mm (PD-495)  
435 × 94 × 295 mm (PD-555)

Weight (net) 3.5 kg (PD-495)  
3.3 kg (PD-555)

### Standard Accessories

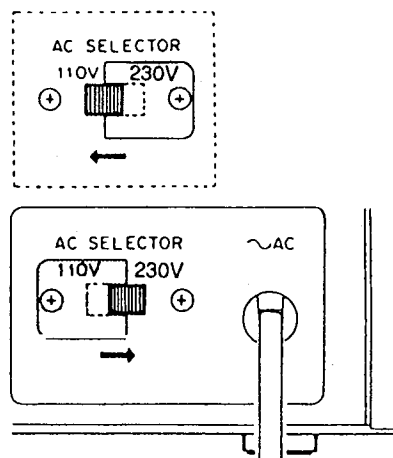
RCA pin-plug cord  
Remote control unit  
Batteries for remote control unit

- Improvement may result in specification or feature changes without notice.
- Illustrations may differ slightly from production models.

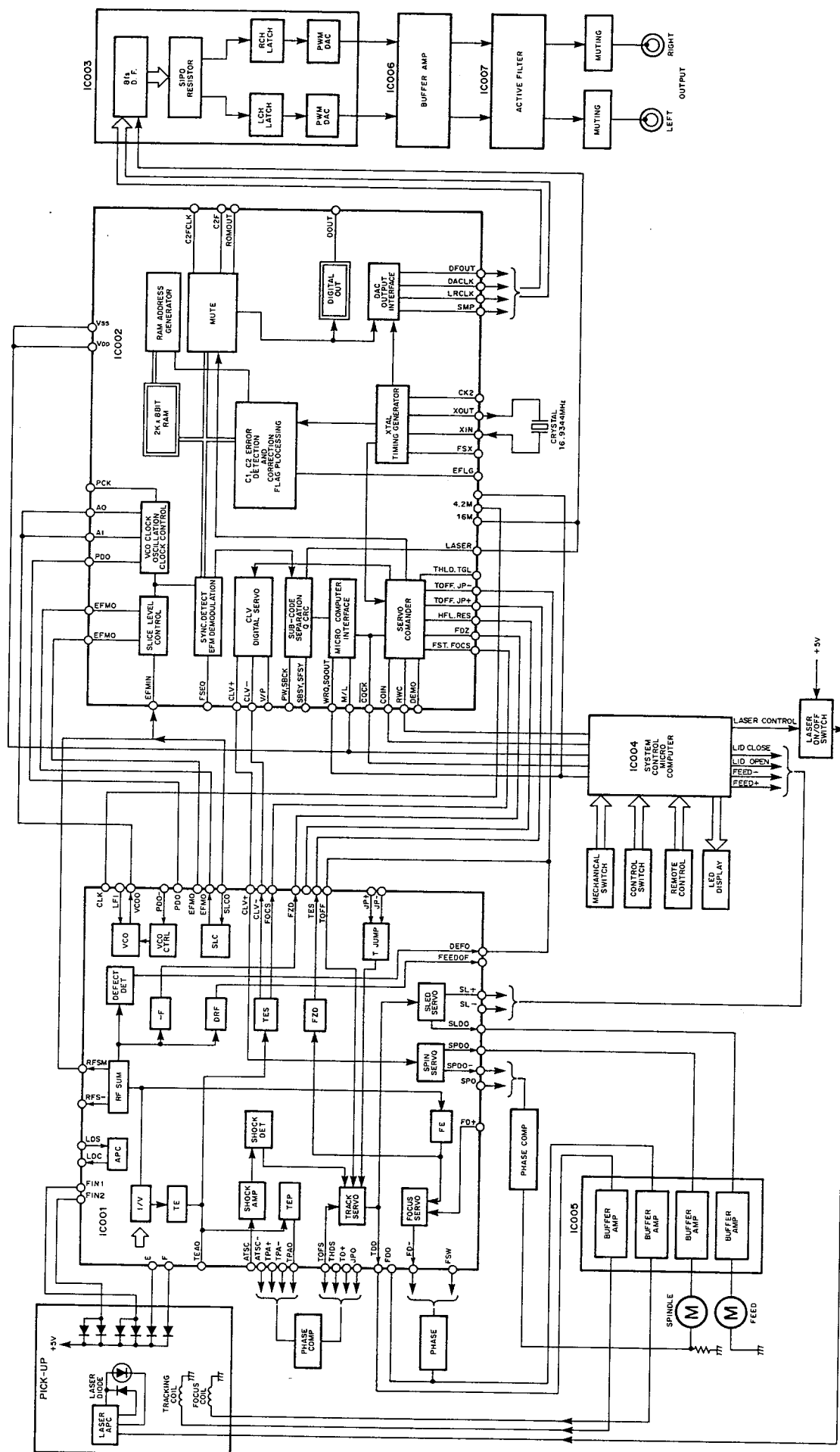
## Voltage Conversion (General export models only)

This unit is adjusted to operate at the electric voltage specified on the unit or packing carton. It is necessary to change the voltage requirements of the model match your area. Use the following procedures.

1. Disconnect the power cord from AC outlet.
2. Locate the voltage selector (AC SELECTOR) on the rear panel of the unit as shown in the illustration.
3. Remove the screw together with the plate then slide the switch to voltage requirement of your area.



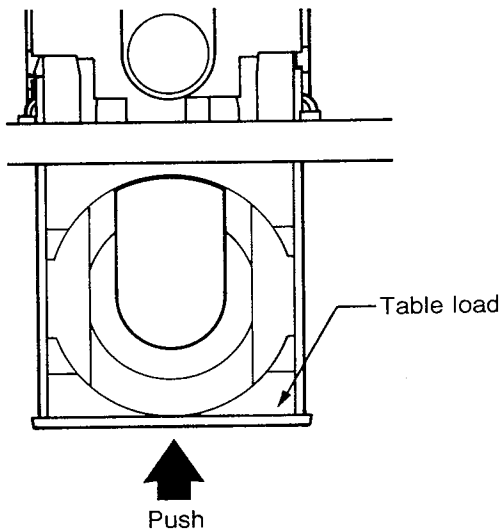
# FUNCTIONAL BLOCK DIAGRAM



# DISASSEMBLY PROCEDURES

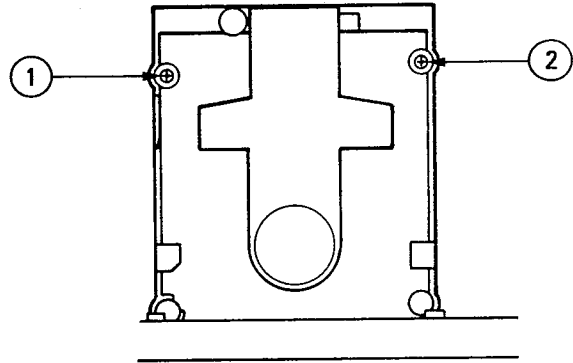
## REMOVING THE DISC TRAY

1. Apply Power Switch to the set and press the OPEN/CLOSE button to open the table load.
2. Apply OFF the Power Switch.

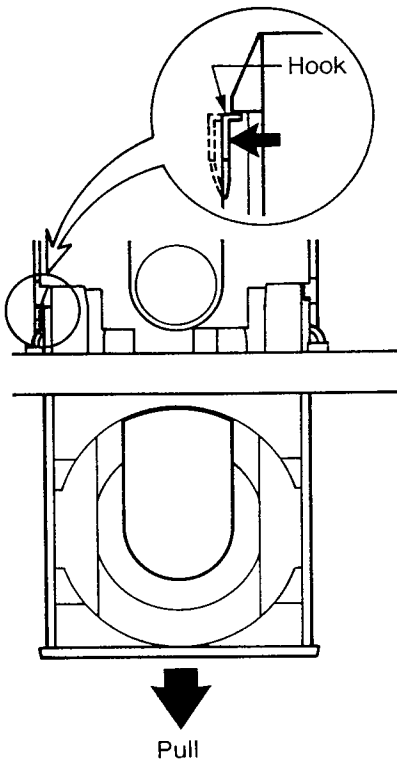


## REMOVING THE MECHANISM

Take out the two screws (1~2 in the diagram below) with which the mechanism is mounted in place and remove the mechanism.



3. Now remove the table load from the cabinet while pressing the tab in the direction of the arrow in the diagram below.



# ADJUSTMENT PROCEDURES

## CAUTION:

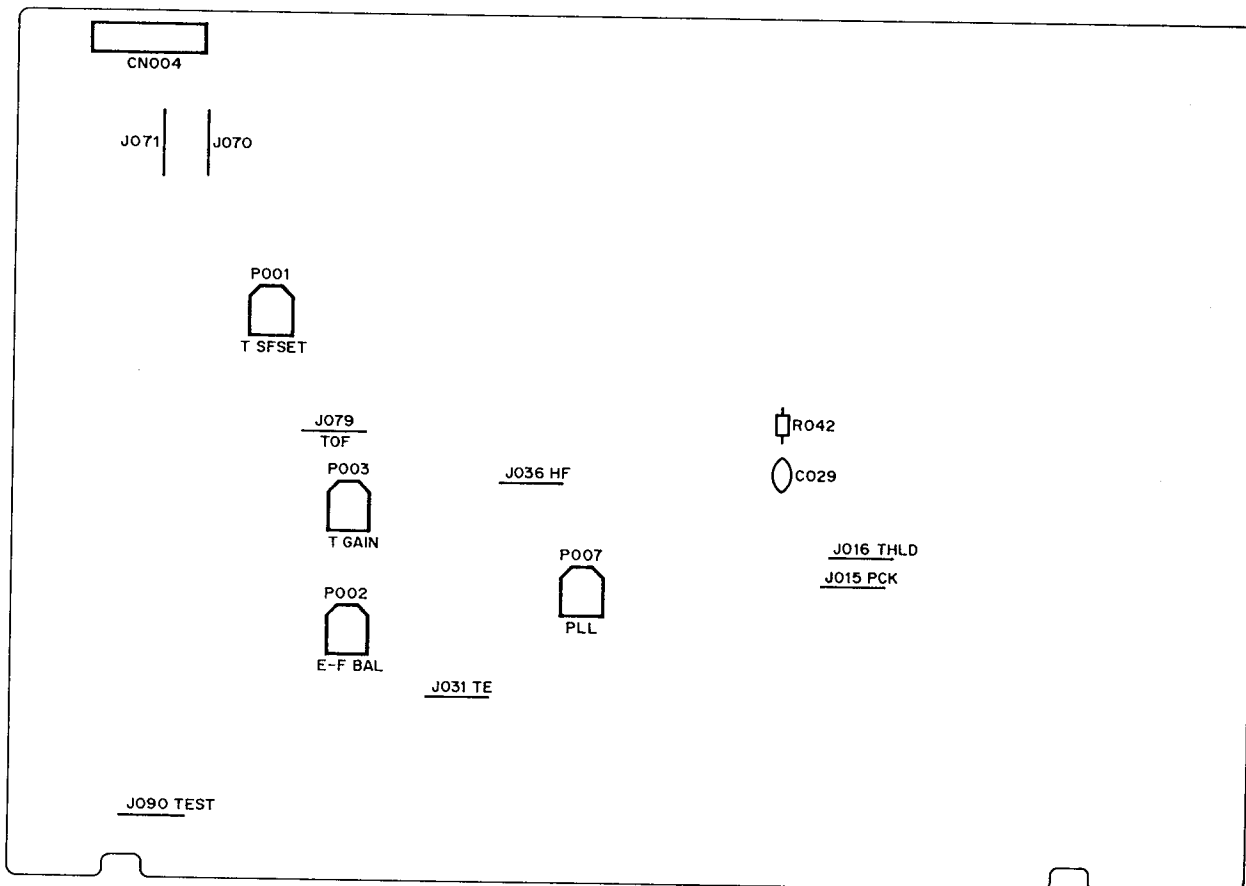
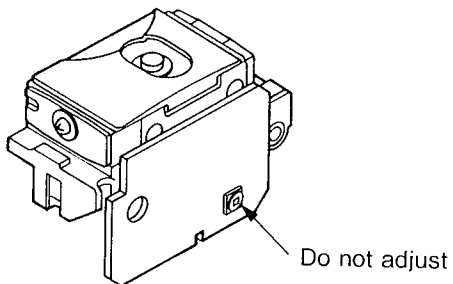
Avoid eye exposure to invisible laser beam which is emitted from laser pickup.

- Refer to the adjustment diagram for the test points and adjustment controls.
- The ground point for the measurement equipment is the test point indicated as **GND**.

ground point of P.C.BORD:

## PRECAUTIONS REGARDING ADJUSTMENT

- Adjustment is performed in the indicated order.
- When adjustment is made for one item, check the other items which follow.
- The laser pick-up has already been precisely adjusted. Do not touch its mounting screws or controls.



# ADJUSTMENT PROCEDURES(Continued)

## REQUIRED EQUIPMENTS

- DC Voltmeter
- Dualtrace Oscilloscope
- Frequency Counter
- Signal Generator
- Plastic Screwdriver
- Diffraction Grating Adjustment Jig
- Test Disc (SONY: YEDS4, SANYO: MODERN WAVE II)

## SETTING OF INITIAL POSITION OF VOLUME

1. The variable resistors are set to the following initial positions.

|                |                        |
|----------------|------------------------|
| P001 (TOFSET)  | .....Mechanical center |
| P002 (E-F BAL) | .....Mechanical center |
| P003 (T GAIN)  | .....Mechanical center |
| P007 (PLL)     | .....Mechanical center |

## FREE RUN FREQUENCY ADJUSTMENT

1. Turn on the power and set the unit to the STOP mode.
2. Connect the frequency counter between jumper **PCK** (J015) and **GND** (use probes 10 : 1).
3. Short **R042** (C029 side) and **GND**.
4. Adjust **P007** so that the frequency counter indicates 4.3218MHz.

## FOCUS OFFSET CONFIRMATION

1. Turn on the power and set the unit to the STOP mode.
2. Connect a DC voltmeter and oscilloscope between jumper **J071** and **GND**.
3. Confirm that the indication on the DC voltmeter is  $-0.7 \sim -1.5V$ .

## TRACKING OFFSET ADJUSTMENT

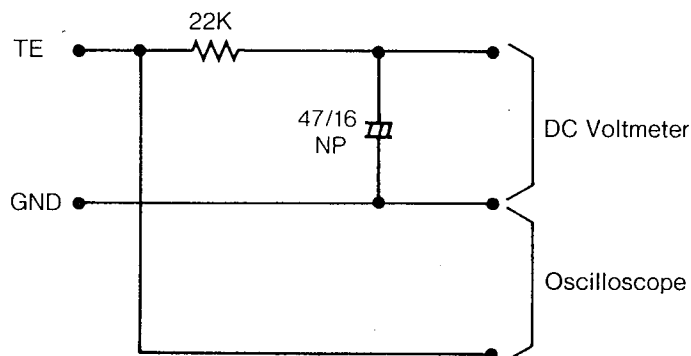
1. Turn on the power and set the unit to the STOP mode.
2. Connect a DC voltmeter and oscilloscope between jumper **J070** and **GND**.
3. Short jumper **TOFF** and **GND**.
4. Confirm that the indication on the DC voltmeter is  $0.1V \pm 20mV$ .

### NOTE:

This adjustment should be made again after the adjustment of Tracking Gain and E-F balance.

## E-F BALANCE ADJUSTMENT

1. Turn on the power. Short jumper **J090 TEST** and **GND**, and jumper **J079 TOF** and **GND** so that tracking servo is off.
2. Place test disc MODERN WAVE II on the table load.
3. Connect a DC voltmeter and oscilloscope to jumper **TE** and **GND** through the low-pass filter shown below.



4. Press the PLAY button.
5. Adjust **P002** so that the DC voltmeter and oscilloscope is minimum voltage (wave form on oscilloscope is symmetrical to 0V line).

## CONFIRMING JITTER

This procedure can be omitted in the case that no jitter meter is equipped.

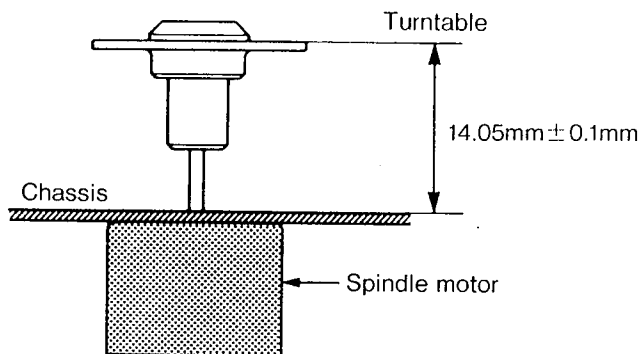
1. Turn on the power and mount test disc MODERN WAVE II on the table load, and play the fourth program of the disc.
2. Connect an oscilloscope to jumper **J036 HF** and **GND**, and observe the indication is  $2.0 \sim 3.3Vp-p$ .
3. Connecting the jitter counter to jumper **J036 HF**, and **GND** and observe that the value of 3T is less than 20nSec.
4. Play tenth program of the disc and observe in the same procedure.

# ADJUSTMENT PROCEDURES(Continued)

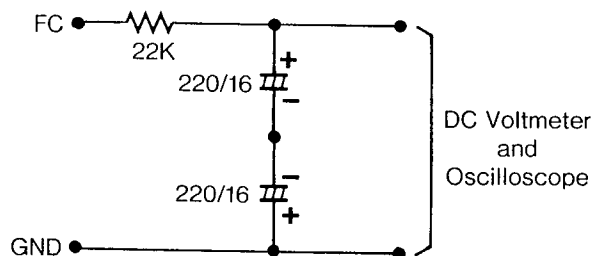
## ADJUSTMENT OF TURNTABLE HEIGHT

This adjustment must be made when the motor is replaced.

1. Attach the turntable so that its top surface is  $14.05\text{mm} \pm 0.1\text{mm}$  from the top of the chassis.



2. Connect a DC voltmeter and oscilloscope test jumper **J071** and **GND** to through the low-pass filter.



3. Turn on the power and playback the first selection on test disc MODERN WAVE II.

4. Readjust the height of the turntable if the reading on the DC voltmeter is not in the range of below.

INSIDE (first selection):  $0\text{V} \pm 0.2\text{V}$

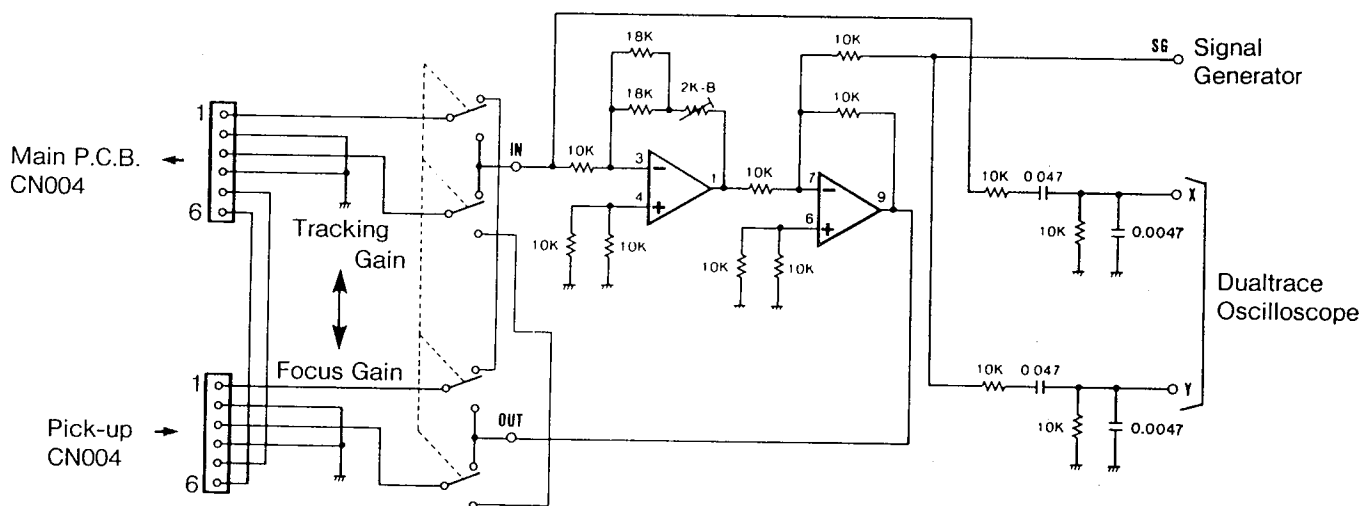
OUTSIDE (tenth selection):  $0\text{V} \pm 0.35\text{V}$

Adjusting turntable height by  $0.55 \sim 0.65\text{mm}$  shift voltage by  $1\text{V}$ .

## ADJUSTMENT OF TRACKING GAIN

The measurement circuit shown below is necessary for accurate adjustment of the tracking gain. If this circuit cannot be made, make adjustments using the simplified procedure.

- Tracking gain adjustment  
**P003** is set to a position  $15^\circ$  from its mechanical center as shown in the diagram below.



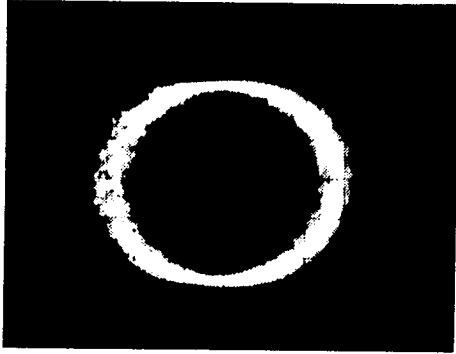
- Remove connector CN004 from the pick-up and connect the measurement circuit between the PCB and pick-up.
- The IC used is TA7256P

- VR control  $2\text{k}\Omega\text{-B}$  shorts **IN** and **SG**,  $1\text{kHz}$   $1\text{Vp-p}$  is supplied from the signal generator, and adjustment is made for minimum output from **OUT**.

# ADJUSTMENT PROCEDURES<sub>(Continued)</sub>

## Precise adjustment procedure

- Tracking gain adjustment
- 1. Connect the measurement circuit shown above, turn on the power, and mount the test disk.
- 2. Play back the first selection on the test disk, and apply a 1,450Hz 0.5Vp-p signal from the signal generator.
- 3. Observe the resurge waveforms on the oscilloscope, and adjust P003 so that the phase difference of outputs **X** and **Y** from the measurement circuit is 90°.

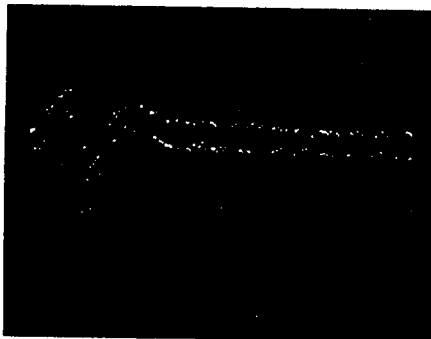


## CONFIRMATION OF KICK GAIN

1. Place the test disc MODERN WAVE II on the turntable.
2. Set the oscilloscope at the NORMAL TRIG and connect jumper **J016 THLD** to the external trigger terminal. Then, connect the channels, 1 and 2, to the jumper, **J036 HF** and **J031 TE**, respectively.
3. Switch on the power. In the state of playing the first tune, make it pause and observe the waveforms of **HF** and **TE** triggered by **THLD**.

TE  
( 1V/DIV )  
( 0.2mSec/DIV )

HF  
( 1V/DIV )  
( 0.2mSec/DIV )



Waveform showing Proper Kick Gain

# SAFETY INTERLOCK

The Digital Compact Disc Player reads the disc signal by detecting the laser beam. It must be avoided for the human body to directly receive the beam. Especially human eyes are badly affected by the beam. Therefore, the unit is equipped with an interlock to prevent the unnecessary laser outputs.

The laser outputs are controlled by the injection or cutoff of the constant voltage source to the laser diode with Pin 32 of IC004 (LC6520H). When Pin 32 is in "L" (Low) level, the laser emits the beam. When Pin 32 is in "H" (High) level, the laser does not emit the beam.

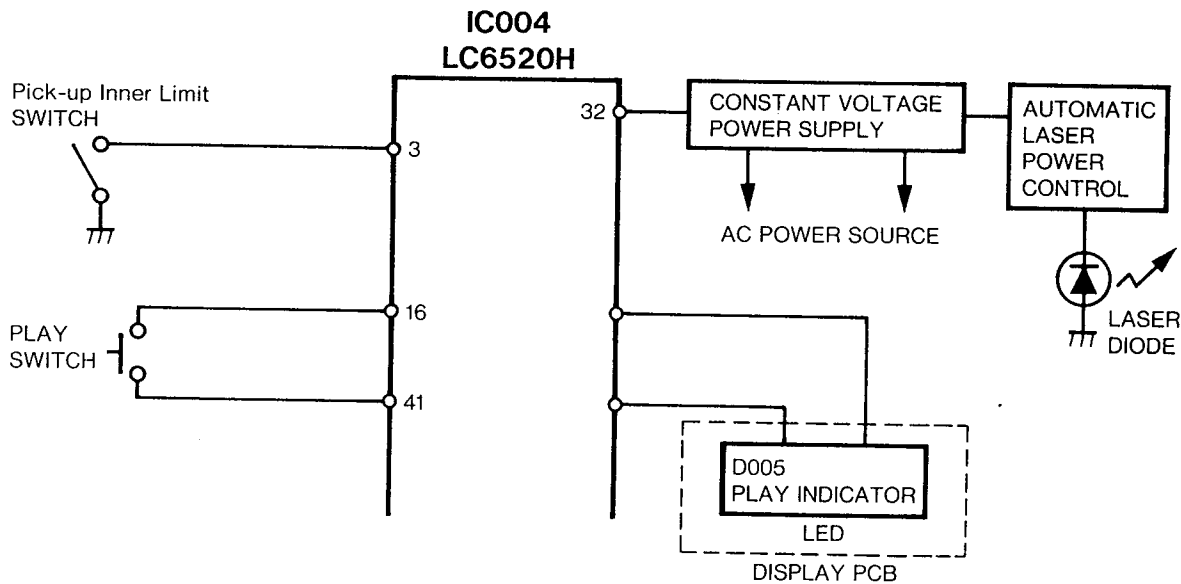
Pin 32 is set in "H" level when the unit is loaded with the disc and it reads the index signals or when the unit is set in the play mode after that. When the unit reads the index

signals and the following two conditions are met, the laser emits the beam.

- 1) When the Pick-up Inner Limit Switch is on. (The disc tray is closed.)
- 2) The pickup is located at the area of the minimum internal circumference.

After the above conditions are met and the index signals have been read, the laser emits the beam when the following two conditions are met.

- 1) When the PLAY button is pressed.
- 2) When the PLAY indicator is on.

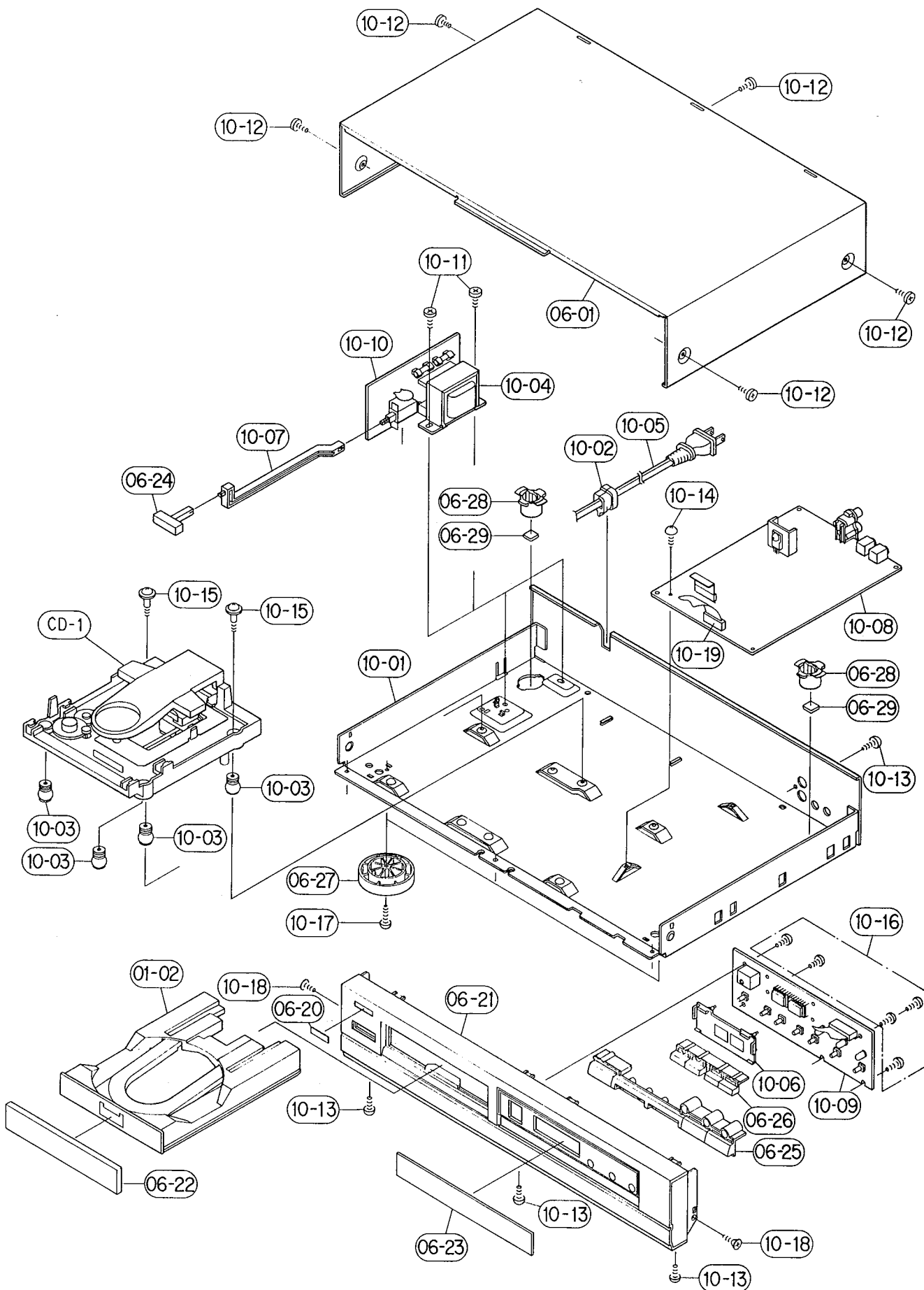


## PARTS LISTS SECTION

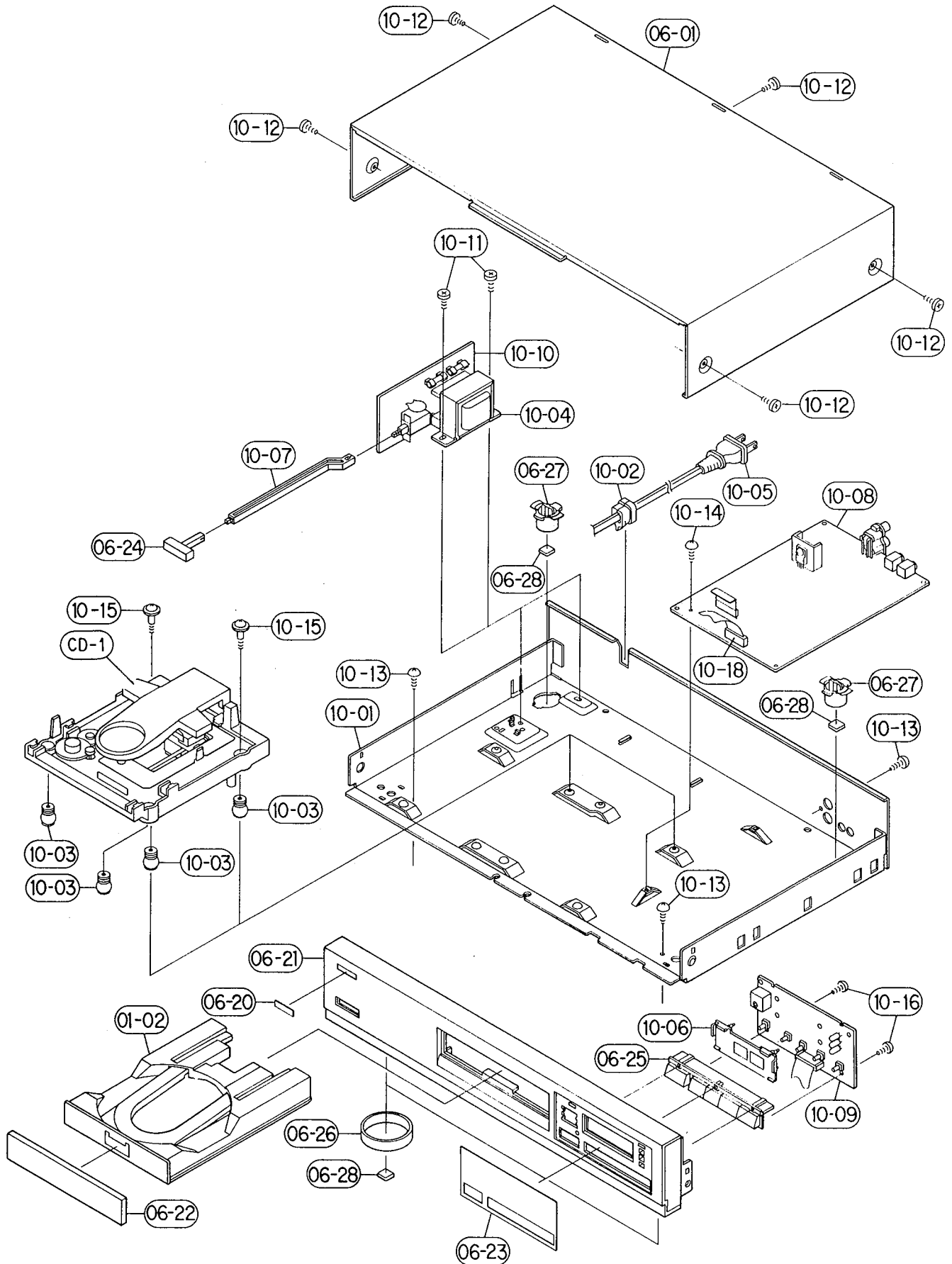
### NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

# CABINET EXPLODED VIEW (PD-495)



# CABINET EXPLODED VIEW (PD-555)



## EXPLODED VIEW CABINET PARTS LIST...PD-495

| REF. NO. | PARTS NO.    | DESCRIPTION                                         | REMARKS |
|----------|--------------|-----------------------------------------------------|---------|
| 06-01    | *9A03299400  | COVER                                               |         |
| 06-20    | *9A03300500  | BADGE                                               |         |
| 06-21    | *9A03755900  | PANEL, FRONT                                        |         |
| 06-22    | *9A03756000  | DECORATION                                          |         |
| 06-23    | *9A03756100  | WINDOW                                              |         |
| 06-24    | *9A03299600  | KNOB,PUSH                                           |         |
| 06-25    | *9A03756200  | BUTTON (A)                                          |         |
| 06-26    | *9A03756300  | BUTTON (B)                                          |         |
| 06-27    | *9A03756400  | LEG                                                 |         |
| 06-28    | *9A03756500  | LEG                                                 |         |
| 06-29    | *9A03355300  | FELT                                                |         |
| 10-01    | - - - -      | CHASSIS                                             |         |
| 10-02    | *9A03300000  | BUSHING NIFCO, 2271                                 |         |
| 10-03    | *9A03354600  | CUSHION RUBBER                                      |         |
| 10-04    | △ 9A03356100 | TRANS.,POWER 9W                                     |         |
| 10-05    | △ 9A03356800 | POWER CORD                                          |         |
| 10-06    | *9A03357200  | SPACER, DISPLAY                                     |         |
| 10-07    | *9A03756800  | JOINT                                               |         |
| 10-08    | *9A03756900  | MAIN PCB ASSY                                       |         |
| 10-09    | *9A03757000  | DISPLAY PCB ASSY                                    |         |
| 10-10    | *9A03353300  | POWER PCB ASSY                                      |         |
| 10-11    | 9A03757100   | SCREW, S-TPG BIN M4*6                               |         |
| 10-12    | 9A03354900   | SCREW, S-TPG BIN M3*8                               |         |
| 10-13    | 9A03354800   | SCREW, S-TPG BRZ M3*8                               |         |
| 10-14    | 9A03384100   | SCREW, S-TPG FLT M3*8                               |         |
| 10-15    | 9A03353800   | SCREW, 2381001400                                   |         |
| 10-16    | 9A03377900   | SCREW, S-TPG BRZ M2.6*6                             |         |
| 10-17    | 9A03357500   | SCREW, S-TPG BRZ M3*12                              |         |
| 10-18    | 9A03384000   | SCREW, S-TPG FLT M3*6                               |         |
| 10-19    | 9A03377600   | WIRE JUMPER, 18P                                    |         |
| CD-1     | *9A03757700  | CD MECHA ASSY, CD91S7<br>(See Mechanism Parts list) |         |

## EXPLODED VIEW CABINET PARTS LIST...PD-555

| REF. NO. | PARTS NO.   | DESCRIPTION      | REMARKS |
|----------|-------------|------------------|---------|
| 06-01    | *9A03299400 | COVER            |         |
| 06-20    | *9A03300500 | BADGE, (TEAC)    |         |
| 06-21    | *9A03930400 | PANEL, FRONT     |         |
| 06-22    | *9A03353700 | COVER DECORATION |         |
| 06-23    | *9A03299500 | WINDOW           |         |
| 06-24    | *9A03299600 | KNOB,PUSH        |         |
| 06-25    | *9A03300600 | BUTTON           |         |
| 06-26    | *9A03300400 | DECORATION       |         |
| 06-27    | *9A03299700 | LEG              |         |
| 06-28    | *9A03355300 | FELT             |         |

Parts marked with \* require longer delivery time

## EXPLODED VIEW CABINET PARTS LIST...PD-555

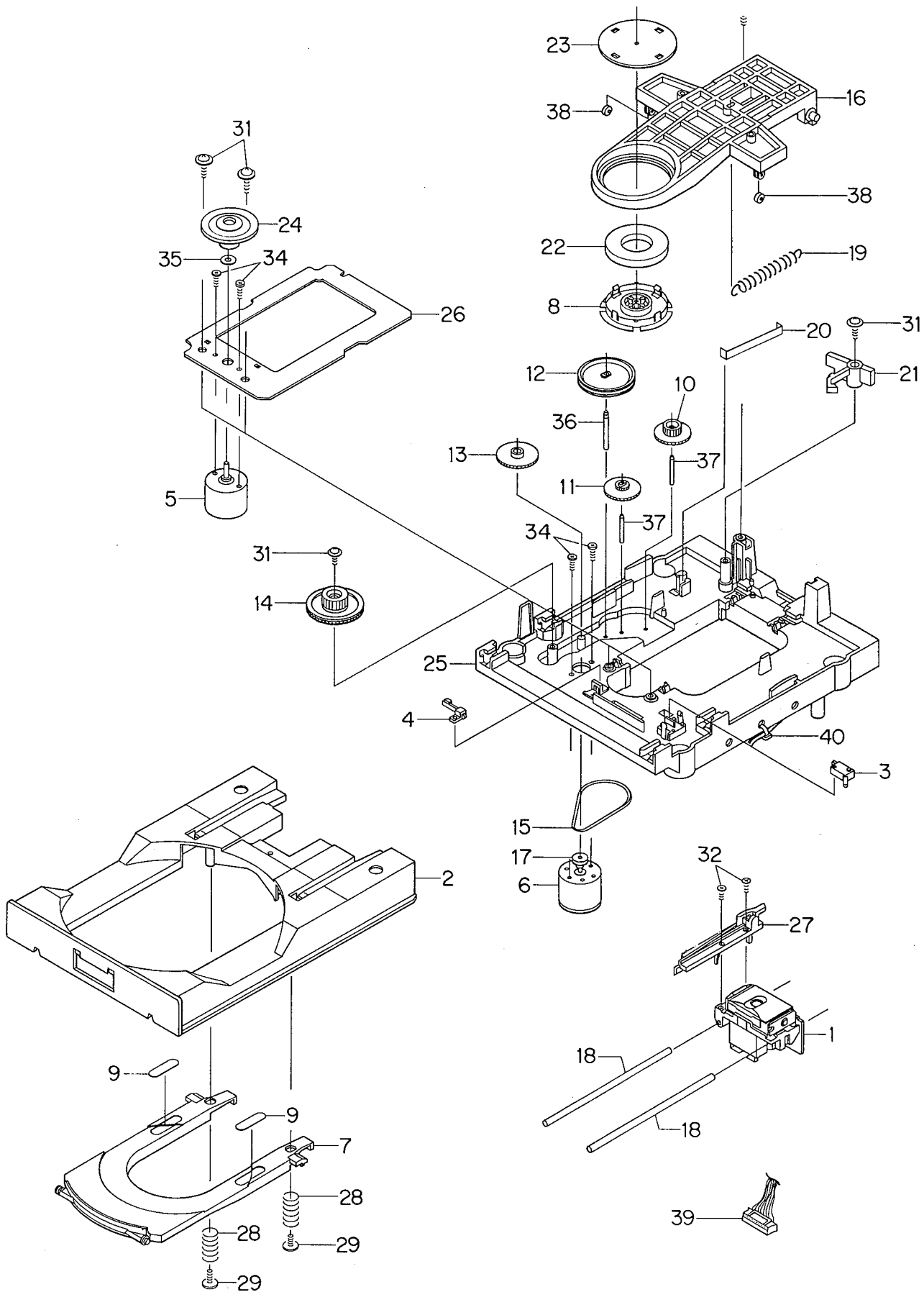
| REF. NO. | PARTS NO.   | DESCRIPTION                                         | REMARKS |
|----------|-------------|-----------------------------------------------------|---------|
| 10-01    | - - - - -   | CHASSIS                                             |         |
| 10-02    | *9A03300000 | BUSHING NIFCO, 2271                                 |         |
| 10-03    | *9A03354600 | CUSHION RUBBER                                      |         |
| 10-04    | !9A03356100 | TRANS., POWER 9W                                    |         |
| 10-05    | !9A03356800 | POWER CORD                                          |         |
| 10-06    | *9A03357200 | SPACER, DISPLAY                                     |         |
| 10-07    | *9A03299900 | JOINT                                               |         |
| 10-08    | *9A03756900 | MAIN PCB ASSY                                       |         |
| 10-09    | *9A03353400 | DISPLAY PCB ASSY                                    |         |
| 10-10    | *9A03753300 | POWER PCB ASSY                                      |         |
| 10-11    | 9A03757100  | SCREW, S-TPG BIN M4*6                               |         |
| 10-12    | 9A03354900  | SCREW, S-TPG BIN M3*8                               |         |
| 10-13    | 9A03354800  | SCREW, S-TPG BRZ M3*8                               |         |
| 10-14    | 9A03384100  | SCREW, S-TPG FLT M3*8                               |         |
| 10-15    | 9A03353800  | SCREW, 2381001400                                   |         |
| 10-16    | 9A03377900  | SCREW, S-TPG BRZ M2.6*6                             |         |
| 10-18    | 9A03377600  | WIRE JUMPER, 18P                                    |         |
| CD-1     | *9A03301210 | CD MECHA ASSY, CD91F7<br>(See Mechanism Parts list) |         |

## INCLUDED ACCESSORIES PARTS LIST...PD-495/PD-555

| REF. NO. | PARTS NO.   | DESCRIPTION              | REMARKS |
|----------|-------------|--------------------------|---------|
| 08-20    | 9A03355700  | PLUG CORD RCA, 0.7BK     |         |
| 08-21    | *9A03355500 | REMOCON, RC-454          |         |
| 08-22    | 9A03355400  | BATTERY                  |         |
| 08-26    | *9A03656000 | OWNER'S MANUAL, (PD-495) |         |
| 08-26    | *9A03656100 | OWNER'S MANUAL, (PD-555) |         |

Parts marked with \* require longer delivery time

# MECHANISM EXPLODED VIEW



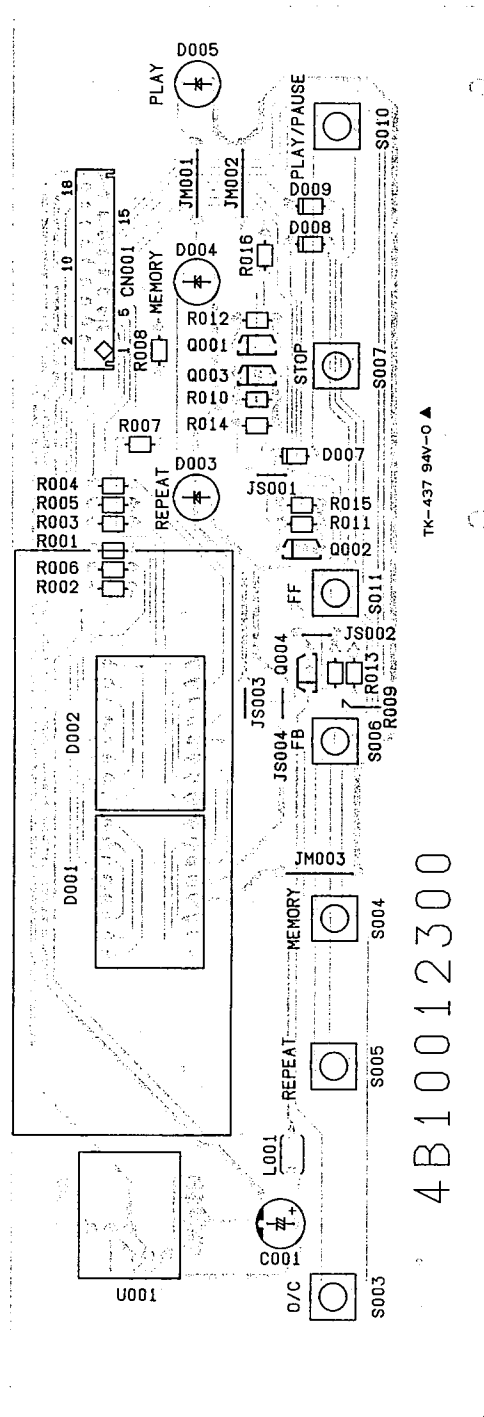
## MECHANISM PARTS LIST...PD-495/PD-555

| REF. NO. | PARTS NO.   | DESCRIPTION                      | REMARKS    |
|----------|-------------|----------------------------------|------------|
| CD-I     | *9A03757700 | CD MECHA ASSY, CD91S7 .....      | ....PD-495 |
| CD-I     | *9A03301210 | CD MECHA ASSY, CD91F7 .....      | ....PD-555 |
| 01       | *9A03757800 | ASSY, PICKUP LASER .....         | ....PD-495 |
| 01       | *9A03372800 | LASER PICK UP ASSY .....         | ....PD-555 |
| 02       | *9A03376400 | TABLE, LOADING                   |            |
| 03       | 9A03375200  | SW., LEVER IPIT                  |            |
| 04       | 9A03375300  | SW., LEAF                        |            |
| 05       | 9A03375400  | MOTOR                            |            |
| 06       | 9A03375100  | MOTOR, DC 0.1A 0.3W              |            |
| 07       | *9A03376300 | LIFTER, CD TABLE                 |            |
| 08       | *9A03373200 | HOLDER, DISK                     |            |
| 09       | *9A03376200 | FELT, DISK                       |            |
| 10       | *9A03373500 | GEAR, PINION PICK                |            |
| 11       | *9A03373400 | GEAR, LOAD PICK                  |            |
| 12       | *9A03373800 | GEAR, PULLEY                     |            |
| 13       | *9A03373600 | GEAR, LOAD TABLE                 |            |
| 14       | *9A03373700 | GEAR, PINION TABLE               |            |
| 15       | *9A03374200 | BELT, SQUARE                     |            |
| 16       | *9A03374800 | FLAP, DISC CLAMP                 |            |
| 17       | *9A03373900 | PULLY, MOTOR                     |            |
| 18       | *9A03374600 | SHAFT, SLIDE PICK                |            |
| 19       | *9A03374900 | SPRING, TENS, FLAP               |            |
| 20       | *9A03375000 | SPRING, PLATE                    |            |
| 21       | *9A03374500 | ARM, CHANGE                      |            |
| 22       | *9A03385400 | MAGNET, DISC CLAMP .....         | ....PD-495 |
| 22       | *9A03374300 | MAGNET, DISC CLAMP .....         | ....PD-555 |
| 23       | *9A03757900 | YOKE, MAGNET .....               | ....PD-495 |
| 23       | *9A03374400 | YOKE, MAGNET .....               | ....PD-555 |
| 24       | *9A03363500 | TURNABLE ASSY                    |            |
| 25       | *9A03372900 | CHASSIS, LOAD                    |            |
| 26       | - - - -     | CHASSIS, CD                      |            |
| 27       | *9A03373300 | GEAR, RACK                       |            |
| 28       | *9A03376500 | SPRING, COMP TABLE               |            |
| 29       | *9A03376100 | SCREW, SPECIAL                   |            |
| 30       | 9A03375700  | SCREW, B-TITE SEMS M3*10         |            |
| 31       | 9A03375500  | SCREW, PAN S-TPG M2.6*6          |            |
| 32       | 9A03375900  | SCREW, FLT PCS M2*5              |            |
| 33       | *9A03758000 | SCREW, BIND HD.T-B +M2.0*4 ..... | ....PD-495 |
| 33       | *9A03934900 | SCREW, PAN S-TPG M2*4 .....      | ....PD-555 |
| 34       | 9A03375800  | SCREW, PAN PCS M1.7*2.5          |            |
| 35       | 9A03373100  | WASHER, SPECIAL                  |            |
| 36       | *9A03374000 | SPINDLE, GEAR (L)                |            |
| 37       | *9A03374100 | SPINDLE, GEAR (S)                |            |
| 38       | *9A03374700 | ROLLER, FLAP                     |            |
| 39       | 9A03758100  | CONNECTOR, 9P                    |            |
| 40       | 9A03375600  | WIRE BAND                        |            |

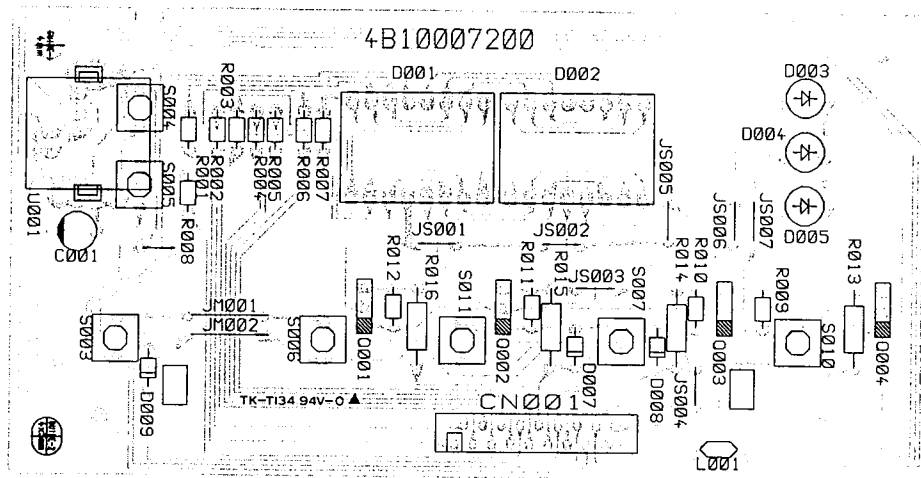
Parts marked with \* require longer delivery time



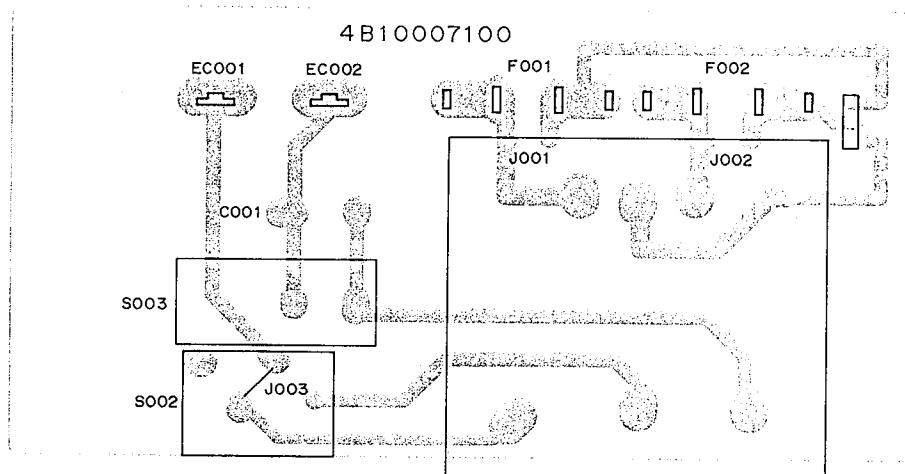
# DISPLAY P. C. BOARD (PD-495) (TOP VIEW)



### DISPLAY P. C. BOARD (PD-555)



### POWER P. C. BOARD (PD-495/PD-555) (TOP VIEW)



# ELECTRICAL MAIN PARTS LIST

## NOTE:

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB assy drawings contained in this manual.

### MAIN PCB ASSY....PD-495/PD-555

| REF. NO.  | PARTS NO.    | DESCRIPTION            |
|-----------|--------------|------------------------|
| 10-08     | *9A03756900  | MAIN PCB ASSY          |
|           | - - - - -    | MAIN PCB               |
| CN001     | 9A03357500   | PLUG, 18P              |
| CN002     | 9A03359300   | CONNECTOR, 3P          |
| CN003     | 9A03379300   | JACK RCA, 2P           |
| CN004     | 9A03359900   | PLUG, 6P               |
| CN005     | 9A03360000   | PLUG, 9P               |
| CN006     | 9A03359800   | PLUG, 6P               |
| D001      | 9A03366300   | DIODE, GMA01-BT        |
| D001      | 9A03395100   | DIODE, WG4148          |
| D002-005  | 9A03366200   | DIODE, ERA15-02-V5     |
| D006-009  | 9A03366300   | DIODE, GMA01-BT        |
| D006-009  | 9A03395100   | DIODE, WG4148          |
| D010      | 9A03366400   | ZENER DIODE, MTZJ7.5A  |
| D011-014  | 9A03366300   | DIODE, GMA01-BT        |
| D011-014  | 9A03395100   | DIODE, WG4148          |
| D017      | 9A03366300   | DIODE, GMA01-BT        |
| D017      | 9A03395100   | DIODE, WG4148          |
| D019-021  | 9A03366300   | DIODE, GMA01-BT        |
| D019-021  | 9A03395100   | DIODE, WG4148          |
| IC001     | 9A03379700   | IC, LA9210             |
| IC002     | 9A03491900   | IC, LC7866             |
| IC002     | 9A03762100   | IC, LC7867R            |
| IC003     | 9A03360800   | IC, LC97000P-288       |
| IC004     | 9A03724800   | IC., LC6520H-4833      |
| IC004     | 9A03360500   | IC, LC6520H            |
| IC004     | 9A03360600   | IC, LC6520H-4799       |
| IC005     | 9A03379600   | IC, LA6524             |
| IC006,007 | 9A03360900   | IC, RC4558D            |
| IC008     | 9A03379500   | IC, BA178M05           |
| IC009     | 9A03366500   | IC, NJM79L06A(T3)      |
| JK001     | 9A03359200   | JACK, 1P               |
| JK002     | 9A03491200   | JACK, 3P               |
| L001,002  | 9A03361200   | COIL, CHOKE 2.2UH K    |
| P001,007  | 9A03361600   | R., TRIMMER 100KB      |
| P002      | 9A03361400   | R., TRIMMER 10KB       |
| P003      | 9A03929500   | POTENTIOMETER, 5KB     |
| P005      | 9A03361500   | R., TRIMMER 20KB       |
| Q001      | 9A03370000   | TR., 2SA608-E-NP-AA    |
| Q001      | 9A03381100   | TR., 2SA608-F-NP-AA    |
| Q002,003  | 9A03370300   | TR., 2SD1012-G-SPA-AC  |
| Q004      | 9A03370100   | TR., 2SC3330-S-AC      |
| Q005      | 9A03369800   | TR., 2SA1317-S-AC      |
| Q006,008  | 9A03370200   | TR., 2SC3400-AC        |
| Q009,011  | 9A03370200   | TR., 2SC3400-AC        |
| Q010      | 9A03369900   | TR., 2SA1346-AC        |
| Q012      | 9A03370200   | TR., 2SC3400-AC        |
| R086      | Δ 9A03379400 | R., FUSIBLE 1/2W 4.7 J |

### MAIN PCB ASSY....PD-495/PD-555

| REF. NO. | PARTS NO.    | DESCRIPTION           |
|----------|--------------|-----------------------|
| R087     | Δ 9A03359400 | R., FUSIBLE 1/2W 10 J |
| R088     | Δ 9A03359400 | R., FUSIBLE 1/2W 10 J |
| R089     | Δ 9A03359400 | R., FUSIBLE 1/2W 10 J |
| X001     | 9A03359600   | CRYSTAL, 16.9344MHZ   |
|          | 9A03360200   | PLATE HEAT SINK       |
|          | 9A03360300   | PLATE HEAT SINK       |
|          | 9A03354700   | SCREW, S-TPG BRZ M3*6 |

### DISPLAY PCB ASSY....PD-495

| REF. NO. | PARTS NO.   | DESCRIPTION        |
|----------|-------------|--------------------|
| 10-09    | *9A03757000 | DISPLAY PCB ASSY   |
|          | - - - - -   | PCB, DISPLAY       |
| 10-06    | 9A03357200  | SPACER, DISPLAY    |
| CN001    | 9A03357500  | PLUG, 18P          |
| D001,002 | 9A03357600  | LED, LB402DB       |
| D003-005 | 9A03379100  | LED, SLR-56DC70125 |
| D007-009 | 9A03366300  | DIODE, GMA01-BT    |
| L001     | 9A03490700  | INDUCTOR, 100UH K  |
| Q001-004 | 9A03358600  | TR., 2SA937-R      |
| S003-007 | 9A03357900  | SW., TACT          |
| S010,011 | 9A03357900  | SW., TACT          |
| U001     | 9A03490500  | PAD                |
| U001     | 9A03357400  | IC, GPIU501X       |
| U001     | 9A03490300  | IC, GPIU521X SHARP |
| U001     | 9A03490400  | IC, ISIU60L SHARP  |
| U001     | 9A03762400  | SBX1610-52         |

### DISPLAY PCB ASSY....PD-555

| REF. NO. | PARTS NO.   | DESCRIPTION         |
|----------|-------------|---------------------|
| 10-09    | *9A03353400 | DISPLAY PCB ASSY    |
|          | - - - - -   | CONTROL PCB         |
| 10-06    | *9A03357200 | SPACER, DISPLAY     |
| C001     | 9A03398800  | C., ELEC 47UF/16V M |
| CN01     | 9A03357500  | PLUG, 18P           |
| D001,002 | 9A03357600  | LED, LB402DB        |
| D003-005 | 9A03379100  | LED, SLR-56DC70125  |
| D007-009 | 9A03358100  | DIODE, GMA01-BT     |
| L001     | 9A03357800  | COIL                |
| Q001-004 | 9A03358600  | TR., 2SA937-R       |

Parts marked with \* require longer delivery time

# ELECTRICAL MAIN PARTS LIST

## DISPLAY PCB ASSY.....PD-555

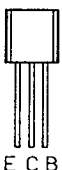
| REF. NO. | PARTS NO.  | DESCRIPTION         |
|----------|------------|---------------------|
| Q001-004 | 9A03358700 | TR., 2SA937-R-SPT-C |
| S003,006 | 9A03357900 | SW.,TACT            |
| S003,006 | 9A03398700 | SW.,TACT            |
| S007,010 | 9A03357900 | SW.,TACT            |
| S007,010 | 9A03398700 | SW.,TACT            |
| S011     | 9A03357900 | SW.,TACT            |
| S011     | 9A03398700 | SW.,TACT            |
| U001     | 9A03357300 | IC.,SBX1610-92      |
| U001     | 9A03357400 | IC, GPIU501X        |

## POWER PCB ASSY.....PD-495/PD-555

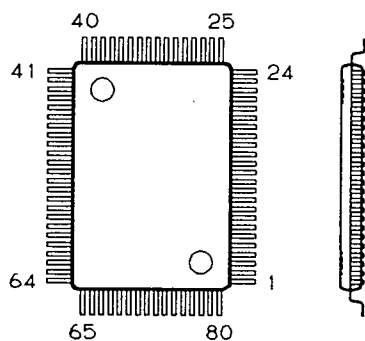
| REF. NO. | PARTS NO.    | DESCRIPTION           |
|----------|--------------|-----------------------|
| 10-10    | *9A03353300  | POWER PCB ASSY        |
|          | -----        |                       |
|          | -----        | POWER PCB             |
| 10-04    | △ 9A03356100 | TRANS.,POWER 9W       |
| 10-05    | △ 9A03356800 | POWER CORD            |
| C001     | △ 9A03356400 | CAPACITOR 0.01MF/400V |
| C001     | △ 9A03356500 | CAPACITOR 0.01MF/250V |
| E001     | △ 9A03356700 | EC TERMINAL, 1P       |
| E002     | △ 9A03356700 | EC TERMINAL, 1P       |
| J001,002 | 9A03356900   | STAPLE, 5MM           |
| J003     | 9A03357000   | STAPLE, 7.5MM         |
| S003     | 9A03356600   | SWITCH,PUSH           |
|          | 9A03356200   | WIRE                  |

Parts marked with \* require longer delivery time

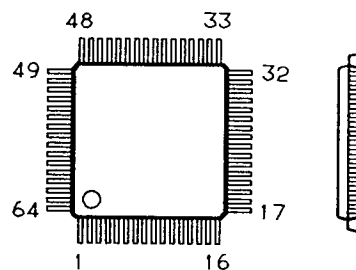
# IC & TRANSISTOR LEAD IDENTIFICATION

| TRANSISTOR                               | FRONT VIEW                                                                        | BOTTOM VIEW                                                                       | TRANSISTOR                                          | FRONT VIEW                                                                          | BOTTOM VIEW                                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2SA608                                   |  |  | 2SA1317<br>2SA1346<br>2SC3330<br>2SC3400<br>2SD1012 |  |  |
| <b>TERMINAL NAME</b>                     |                                                                                   |                                                                                   |                                                     |                                                                                     |                                                                                     |
| B → BASE<br>C → COLLECTOR<br>E → EMITTER |                                                                                   |                                                                                   |                                                     |                                                                                     |                                                                                     |

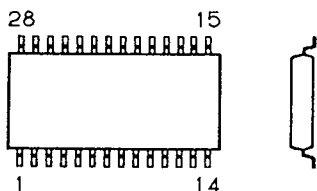
**LA9210 TOP/SIDE VIEWS**



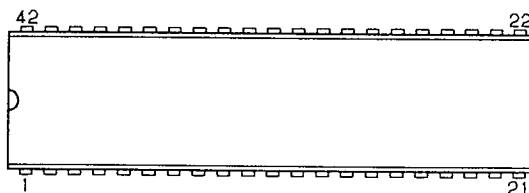
**LC7866 TOP/SIDE VIEWS**



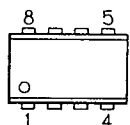
**LC97000P-288 TOP/SIDE VIEWS**



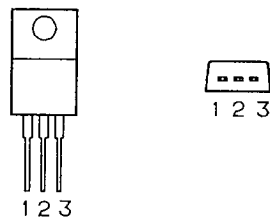
**LC6520H TOP VIEW**



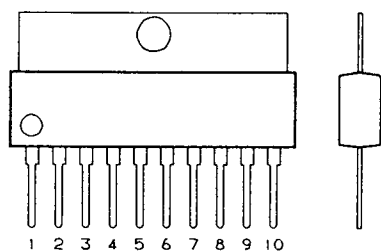
**RC4558D TOP VIEW**



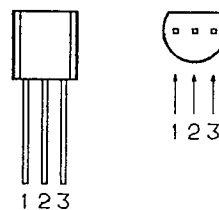
**BA178M05 FRONT/BOTTOM VIEWS**



**LA6524 FRONT/SIDE VIEWS**

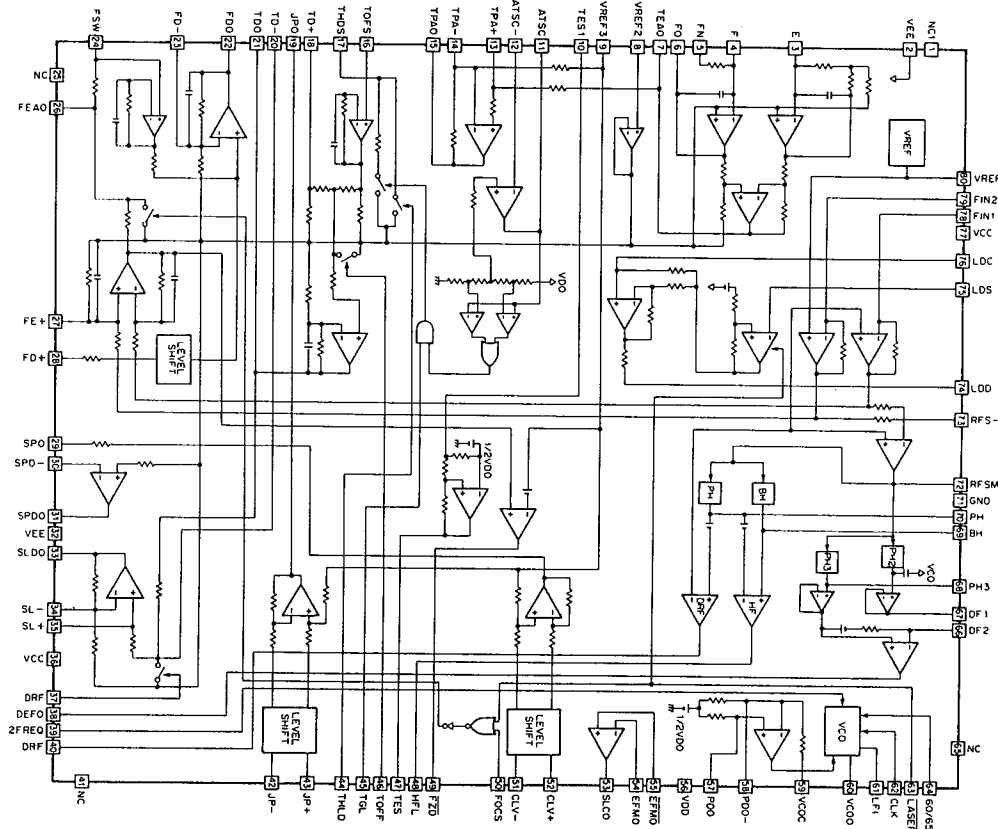


**NJM79L06A(T3) FRONT/BOTTOM VIEWS**

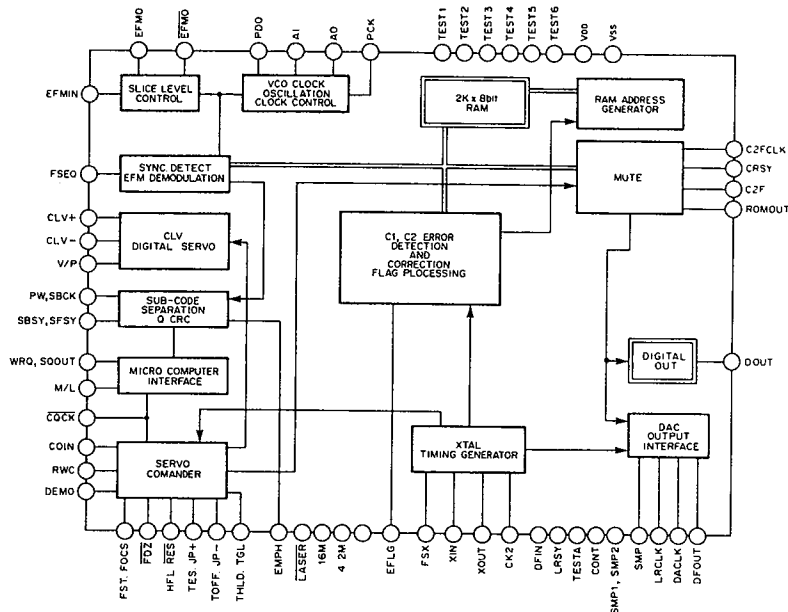


# IC BLOCK DIAGRAM

## LA9210 BLOCK DIAGRAM

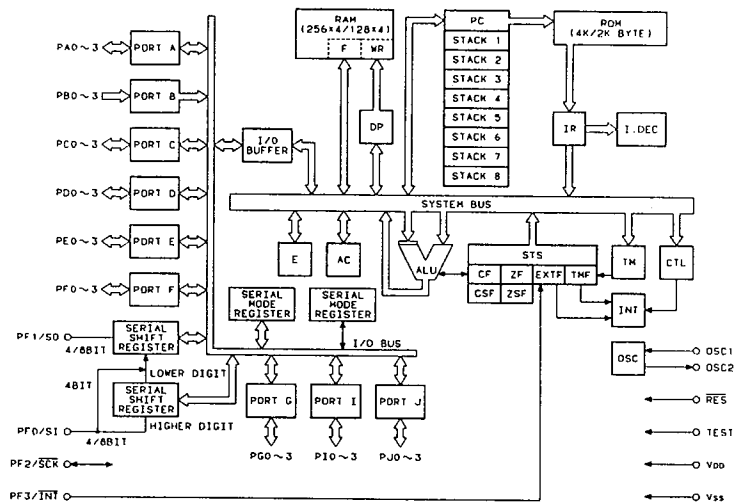


## LC7866 BLOCK DIAGRAM

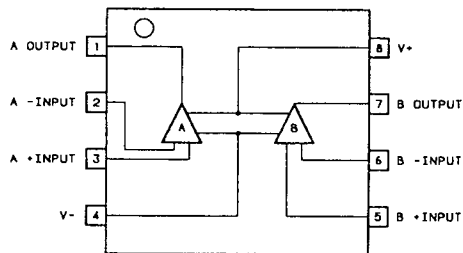


# IC BLOCK DIAGRAM (Continued)

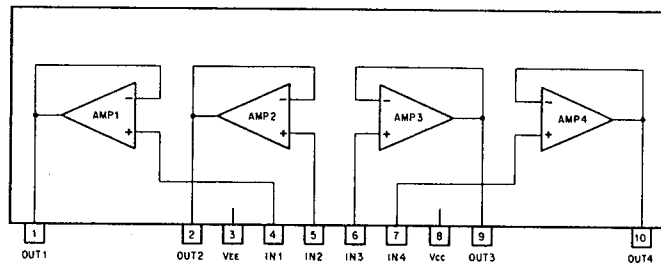
## LC6520H BLOCK DIAGRAM



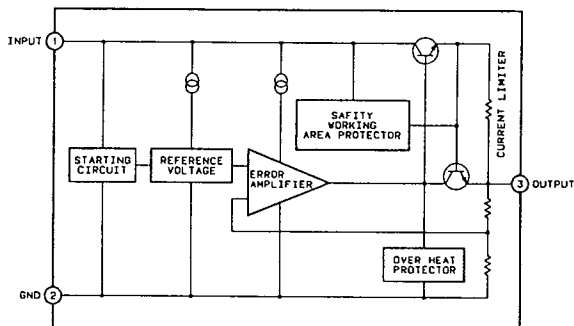
## RC4558D BLOCK DIAGRAM



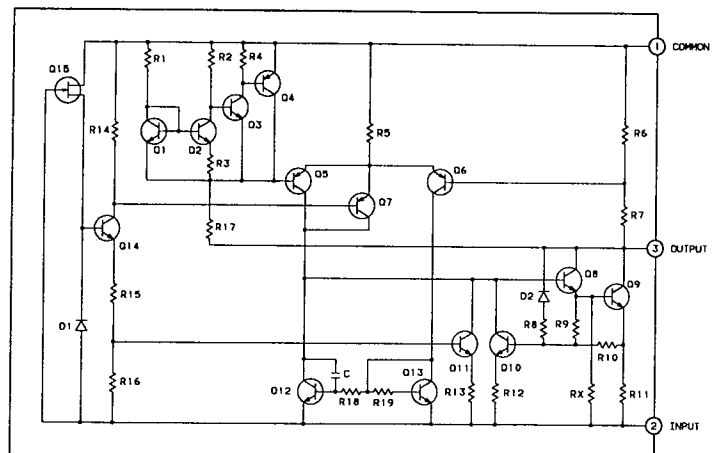
## LA6524 BLOCK DIAGRAM



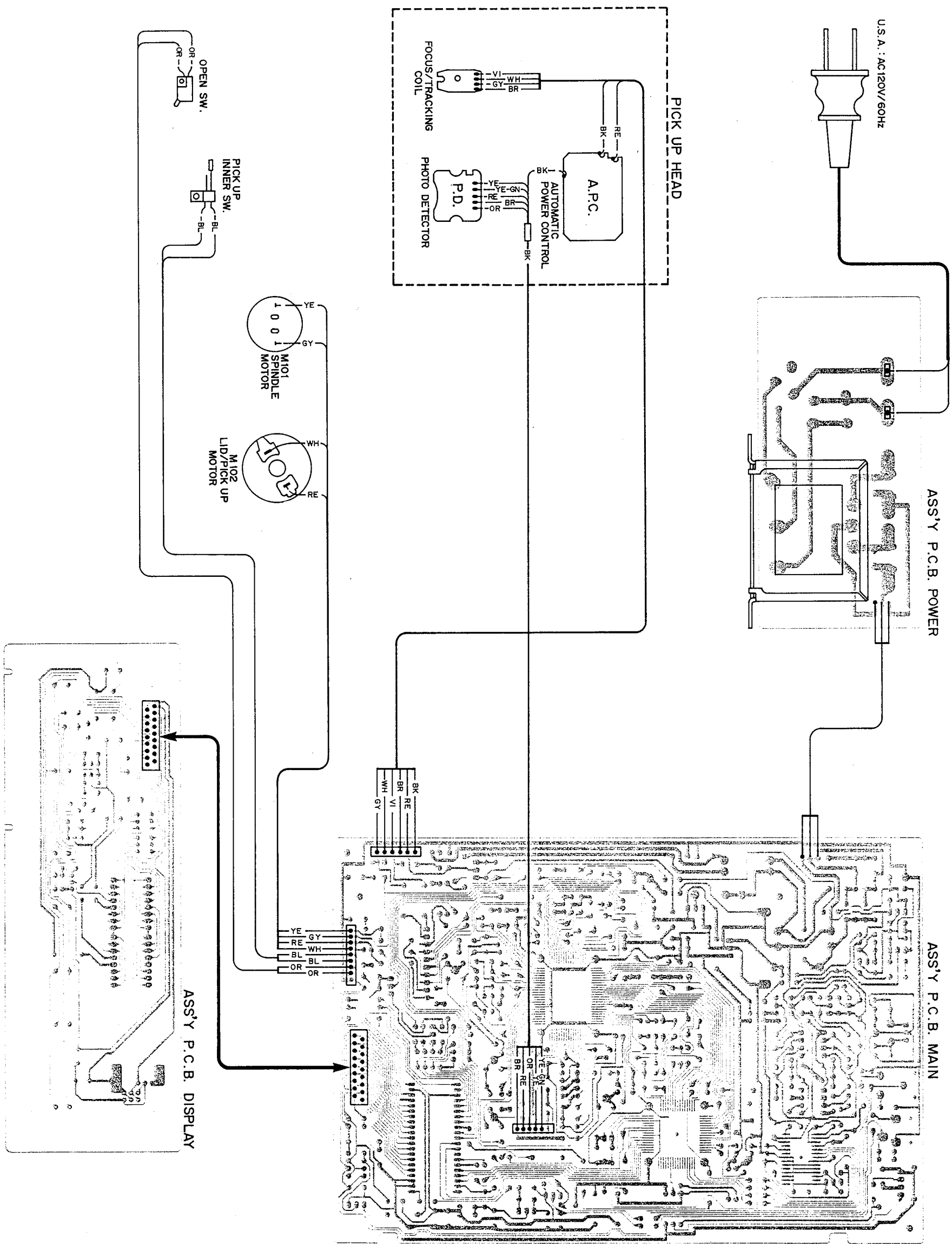
## BA178M05 BLOCK DIAGRAM



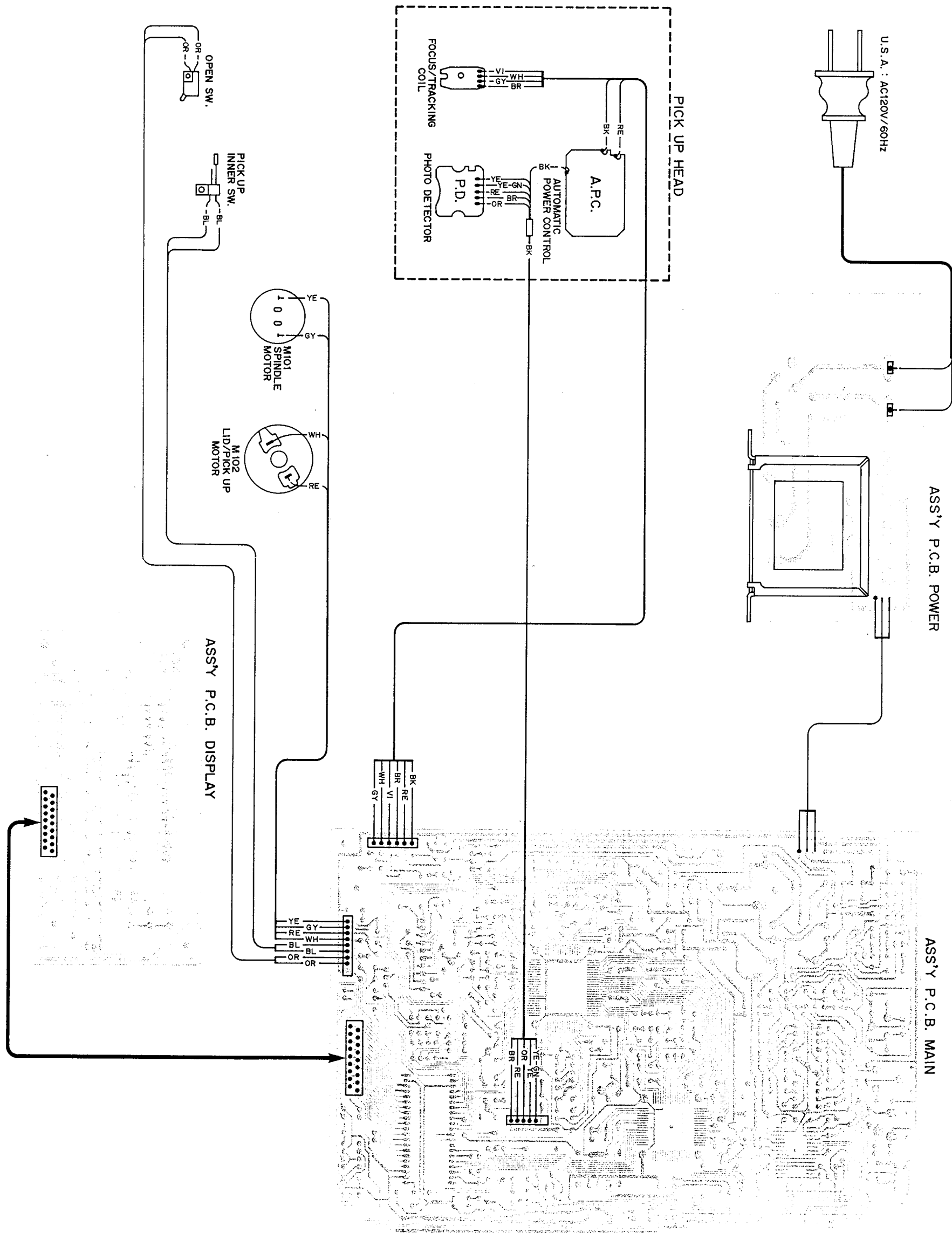
## NJM79L06A(T3) BLOCK DIAGRAM



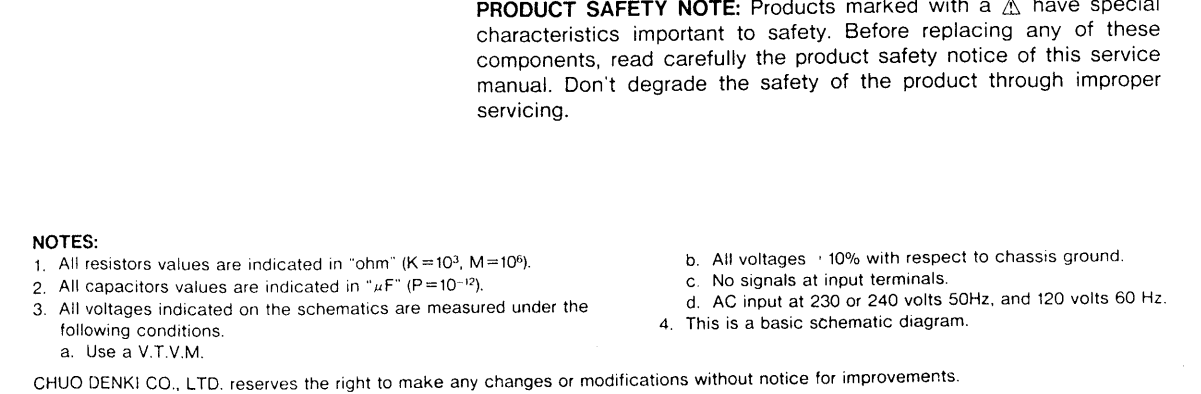
POINT TO POINT WIRING DIAGRAM (PD-495)



POINT TO POINT WIRING DIAGRAM (PD-555)



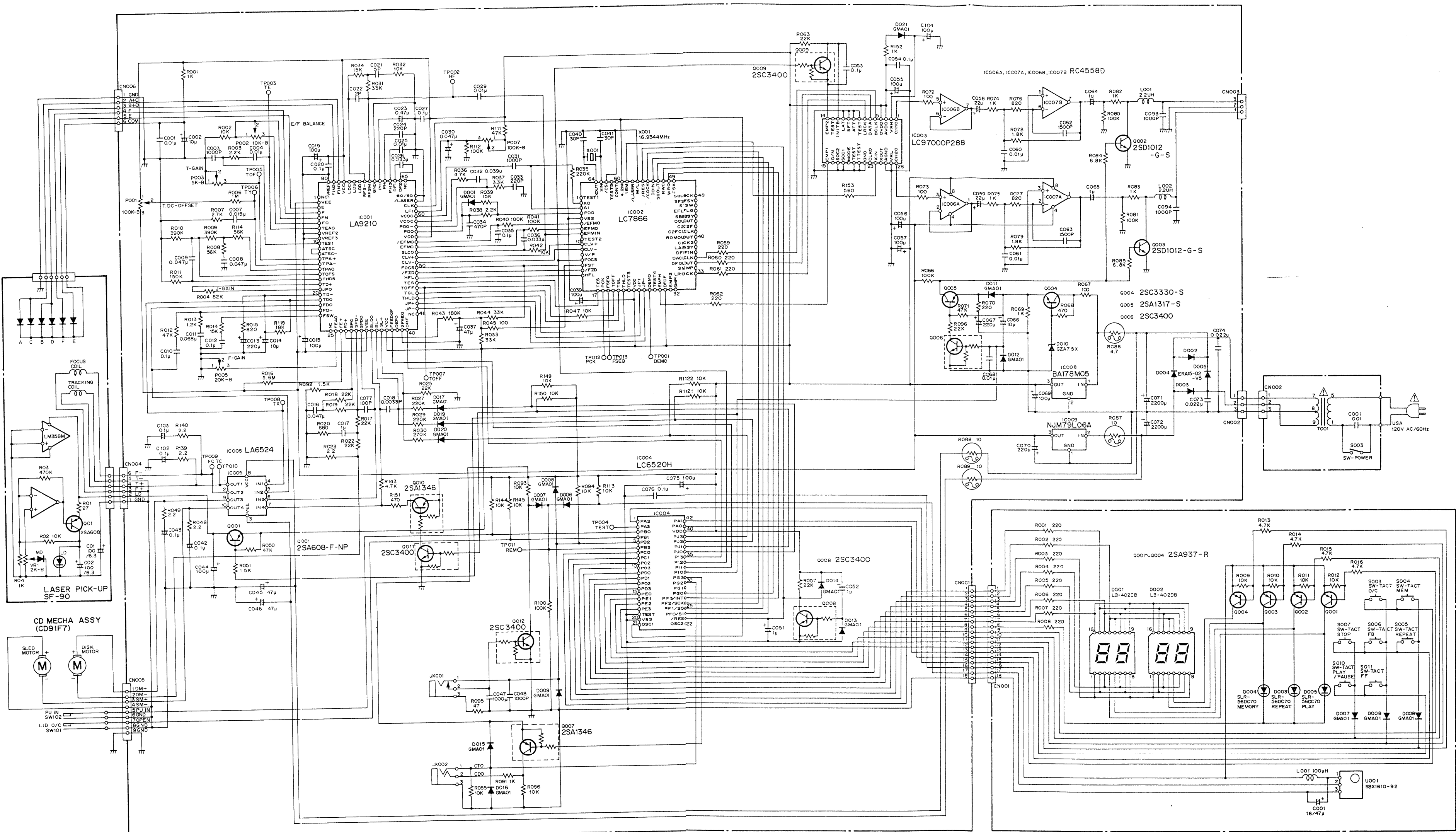
A horizontal number line with tick marks at every integer from 1 to 11. The segments between the tick marks are labeled with numbers 1 through 11 above the line. The segment between 1 and 2 is shaded gray.



| No.  | Name                                    | Position |
|------|-----------------------------------------|----------|
| S003 | ASSY. PCB, DISPLAY<br>OPEN/CLOSE Switch | OFF      |
| S004 | MEMORY Switch                           | OFF      |
| S005 | REPEAT Switch                           | OFF      |
| S006 | F BACK Switch                           | OFF      |
| S007 | STOP Switch                             | OFF      |
| S010 | PLAY/PAUSE Switch                       | OFF      |
| S011 | F FWD Switch                            | OFF      |
| S003 | ASSY. PCB, POWER<br>POWER Switch        | OFF      |

SCHEMATIC DIAGRAM PD-555 Compact Disc Player

A  
B  
C  
D  
E  
F  
G



| IC PIN NUMBER DC VOLTAGES |                |      |       |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |
|---------------------------|----------------|------|-------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| SYMBOL No                 | DEVICE         | 1    | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12    | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   |
| 10001                     | LA8210         | 0V   | -5.0V | 0V   | 0V   | 0V   | 0V   | 2V   | 0V   | 0V   | 0V   | 2.5V | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   |
|                           |                | 21   | 22    | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32    | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   |
|                           |                | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | -5.0V | 0V   | 0V   | 5.0V | 0V   | 0V   | 0V   | 0V   | 0V   |
|                           |                | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   |
|                           |                | 41   | 42    | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   | 51   | 52    | 53   | 54   | 55   | 56   | 57   | 58   | 59   | 60   |
|                           |                | 0V   | 0V    | 0V   | 0V   | 4.5V | 0V   | 0V   | 2.5V | 2.7V | 0V   | 0V   | 2.9V  | 0V   | 0V   | 5.0V | 0V   | 0V   | 2.5V | 2.5V | 0V   |
| 61                        | 62             | 63   | 64    | 65   | 66   | 67   | 68   | 69   | 70   | 71   | 72   | 73   | 74    | 75   | 76   | 77   | 78   | 79   | 80   |      |      |
| 0V                        | 2.0V           | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 1.5V  | 0V   | 0V   | 5.0V | 0V   | 0V   | 0V   | 0V   |      |
| IC PIN NUMBER DC VOLTAGES |                |      |       |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |
| SYMBOL No                 | DEVICE         | 1    | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12    | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   |
| 10002                     | IC1866         | 1    | 2.0V  | 0V   | 0V   | 2.3V | 2.3V | 0V   | 0V   | 0V   | 0V   | 0V   | 4.3V  | 0V   | 4.3V | 0V   | 2.7V | 0V   | 0V   | 2.0V | 4.1V |
|                           |                | 21   | 22    | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32    | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   |
|                           |                | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 4.3V | 5.0V | 1.0V | 1.0V  | 2.2V | 2.2V | 0V   | 2.2V | 0V   | 2.0V | 1.2V | 0V   |
|                           |                | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   |
|                           |                | 41   | 42    | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   | 51   | 52    | 53   | 54   | 55   | 56   | 57   | 58   | 59   | 60   |
|                           |                | 2.0V | 3.8V  | 2.5V | 0V   | 2.0V | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 3.8V | 1.2V | 0V   | 0V   |
| 61                        | 62             | 63   | 64    | 65   | 66   | 67   | 68   | 69   | 70   | 71   | 72   | 73   | 74    | 75   | 76   | 77   | 78   | 79   | 80   |      |      |
| 0V                        | 0V             | 0V   | 0V    | 1.8V | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   |      |
| IC PIN NUMBER DC VOLTAGES |                |      |       |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |
| SYMBOL No                 | DEVICE         | 1    | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12    | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   |
| 10003                     | C07000<br>P288 | 0V   | 4.5V  | 1.6V | 0V   | 1.6V | 0V   | 1.6V | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 4.5V | 0V   |
|                           |                | 21   | 22    | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | 32    | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   |
|                           |                | 0V   | 0V    | 0.5V | 0.5V | 2.0V | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V    | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   |

| IC PIN NUMBER DC VOLTAGES |        |      |      |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |      |
|---------------------------|--------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| SYMBOL No                 | DEVICE | 1    | 2    | 3   | 4   | 5   | 6   | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19  | 20   |
| IC004                     | L6520  | 0V   | 0V   | 0V  | 0V  | 0V  | 0V  | 1.6V | 1.0V | 0.0V | 0.6V | 0.0V | 1.0V | 1.0V | 1.2V | 2.4V | 0.4V | 3.0V | 0V  | 0V  | 0V   |
|                           |        | 2.0  | 2.2  | 2.3 | 2.4 | 2.5 | 2.6 | 2.7  | 2.8  | 2.9  | 3.0  | 3.1  | 3.2  | 3.3  | 3.4  | 3.5  | 3.6  | 3.7  | 3.8 | 3.9 | 4.0  |
|                           |        | 2.0V | 0.7V | 0V  | 0V  | 0V  | 0V  | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V   | 0V  | 0V  | 5.0V |
|                           |        | 41   | 42   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |      |
|                           |        | 41   | 42   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |      |
|                           |        | 0V   | 0V   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |     |     |      |

| IC PIN NUMBER DC VOLTAGES |        |    |    |        |    |    |    |    |       |    |    |
|---------------------------|--------|----|----|--------|----|----|----|----|-------|----|----|
| SYMBOL No                 | DEVICE | 1  | 2  | 3      | 4  | 5  | 6  | 7  | 8     | 9  | 10 |
| IC005                     | LA6524 | 0V | 0V | -11.3V | 0V | 0V | 0V | 0V | 10.5V | 0V | 0V |
|                           |        |    |    |        |    |    |    |    |       |    |    |

| IC PIN NUMBER DC VOLTAGES |         |      |      |    |       |    |      |      |      |
|---------------------------|---------|------|------|----|-------|----|------|------|------|
| SYMBOL No                 | DEVICE  | 1    | 2    | 3  | 4     | 5  | 6    | 7    | 8    |
| IC006B                    | RC4558D | 1.6V | 1.6V | 0V | -5.0V | 0V | 1.6V | 1.6V | 3.0V |
|                           |         |      |      |    |       |    |      |      |      |

| IC PIN NUMBER DC VOLTAGES |         |    |    |    |       |    |    |    |      |
|---------------------------|---------|----|----|----|-------|----|----|----|------|
| SYMBOL No                 | DEVICE  | 1  | 2  | 3  | 4     | 5  | 6  | 7  | 8    |
| IC007B                    | RC4558D | 0V | 0V | 0V | -3.5V | 0V | 0V | 0V | 3.0V |
|                           |         |    |    |    |       |    |    |    |      |

| IC PIN NUMBER DC VOLTAGES |          |       |    |      | IC PIN NUMBER DC VOLTAGES |           |    |        |       |
|---------------------------|----------|-------|----|------|---------------------------|-----------|----|--------|-------|
| SYMBOL No                 | DEVICE   | 1     | 2  | 3    | SYMBOL No                 | DEVICE    | 1  | 2      | 3     |
| IC008                     | BA178M05 | 10.0V | 0V | 5.0V | IC009                     | TLM79L06A | 0V | -11.0V | -6.0V |
|                           |          |       |    |      |                           |           |    |        |       |

| TRANSISTOR DC VOLTAGES |             |      |      |      |    |      |         |    |    |    |    |      |
|------------------------|-------------|------|------|------|----|------|---------|----|----|----|----|------|
| SYMBOL No              | DEVICE      | 1    | 2    | 3    | 4  | 5    | 6       | 7  | 8  | 9  | 10 | 11   |
| 0001                   | 25A018-P-W  | 4.0V | 2.1V | 3.0V | 0V | 0V   | 0V      | 0V | 0V | 0V | 0V | 5.0V |
| 0002                   | 25B0191-G-S | 0.4V | 0V   | 0V   | 0V | 0008 | 25C1400 | 0V | 0V | 0V | 0V | 0V   |
| 0003                   | 25B0191-G-S | 0.4V | 0V   | 0V   | 0V | 0009 | 25C1400 | 0V | 0V | 0V | 0V | 0V   |
| 0004                   | 25C3303     | 1.2V | 0V   | 0V   | 0V | 0010 | 25A1136 | 0V | 0V | 0V | 0V | 0V   |
| 0005                   | 25A1137     | 1.0V | 5.5V | 3.0V | 0V | 0011 | 25C1400 | 0V | 0V | 0V | 0V | 0V   |
| 0006                   | 25C1400     | 1.2V | 0V   | 0V   | 0V |      |         |    |    |    |    |      |

| No.              | Name               | Position |
|------------------|--------------------|----------|
| S003             | ASSY. PCB, DISPLAY | OFF      |
| S004             | OPEN/CLOSE Switch  | OFF      |
| S005             | MEMORY Switch      | OFF      |
| S006             | REPEAT Switch      | OFF      |
| S006             | F BACK Switch      | OFF      |
| S007             | STOP Switch        | OFF      |
| S008             | PLAY/PAUSE Switch  | OFF      |
| S009             | F FWD Switch       | OFF      |
| ASSY. PCB, POWER |                    |          |
| S003             | POWER Switch       | OFF      |

| No.  | Name               | Position |
|------|--------------------|----------|
| S003 | ASSY, PCB, DISPLAY | OFF      |
| S004 | OPEN/CLOSE Switch  | OFF      |
| S005 | MEMORY Switch      | OFF      |
| S006 | REPEAT Switch      | OFF      |
| S007 | F BACK Switch      | OFF      |
| S008 | STOP Switch        | OFF      |
| S009 | PLAY/PAUSE Switch  | OFF      |
| S010 | F FWD Switch       | OFF      |
| S011 | ASSY, PCB, POWER   | OFF      |

NOTES:  
1. All resistors values are indicated in "ohm" (K=10<sup>3</sup>, M=10<sup>6</sup>).  
2. All capacitors values are indicated in "μF" (P=10<sup>-9</sup>).  
3. No signals at input terminals.  
4. All voltages indicated on the schematics are measured under the following conditions.  
a. Use a V.T.V.M.  
CHUO DENKI CO., LTD. reserves the right to make any changes or modifications without notice for improvements.

PRODUCT SAFETY NOTE: Products marked with a Δ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice of this service manual. Don't degrade the safety of the product through improper servicing.