## ONKYO SERVICE MANUAL

## QUARTZ LOCKED DIRECT DRIVE FULLY AUTOMATIC TURNTABLE MODEL CP-1055F



| UDN, UDC, UD | $120 \mathrm{~V} \mathrm{AC}, 60 \mathrm{~Hz}$ |
| :--- | :--- |
| UGV, UG | $220 \mathrm{~V} \mathrm{AC}, 50 \mathrm{~Hz}$ |
| UW | 120 or $220 \mathrm{~V} \mathrm{AC}, 50 / 60 \mathrm{~Hz}$ |
| UQA, UQB | $240 \mathrm{~V}, 50 \mathrm{~Hz}$ |

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC *SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

## SPECIFICATIONS

$\left.\begin{array}{ll}\text { Type: } & \begin{array}{l}\text { Quartz locked direct drive } \\ \text { fully automatic turntable } \\ \text { with auto lead-in and return, } \\ \text { reject, repeat, cue and search } \\ \text { button functions, two-motor } \\ \text { micro-computer design }\end{array} \\ \text { 330 mm (13") aluminum }\end{array}\right\}$

Dimensions ( $\mathrm{W} \times \mathrm{D} \times \mathrm{H}$ )

Weight:
Accessories:
$442 \times 410 \times 155 \mathrm{~mm}$ ( $\left.17-7 / 16^{\prime \prime} \times 16-3 / 16^{\prime \prime} \times 6-1 / 8^{\prime \prime}\right)$ 8.8 kg ( 20 lbs. ) Headshell, counterweight, overhang gauge, adapter, instruction manual

Optional Recommended Headshell: SH-21E

Specifications are subject to change for further product improvements.

## SERVICE PROCEDURES

Insulation resistance measurement
Connect the insulating-resistance tester between the plug of power supply cord and chassis.
Specifications; D model
500 V $3.3 \pm 0.33 \mathrm{M} \Omega$
500 V more than $10 \mathrm{M} \Omega$

## ADJUSTMENT PROCEDURES

1. Return sensitivity adjustment (fig. 1)

Turn the unit upside-down and, with the DD motor and arm motor connector removed, connect a DC voltmeter between TP and GND. Move the arm to the inside of the platter, put the return sensor in the release position and shut out extraneous light. Starting with the semi-fixed resistor R703 set all the way to the left, begin to rotate the resistor clockwise to the point where the voltage between TP and GND rises 2 mV above low (a few hundred mV ).
2. Platter height adjustment (fig. 2)

Return the unit to the upright position and rotate the float base height adjustment screw. Adjust so that the platter height is $24 \mathrm{~mm} \pm 3 \mathrm{~mm}$ above the cabinet.
3. Stylus height adjustment (Stylus: UD: OC-39M UG: included (OC-60VMS))
Set the tonearm in the up position and adjust the lifter plate screw so the height of the stylus tip is $8 \mathrm{~mm} \pm 1 \mathrm{~mm}$ above the platter mat.
Note 1: The height should be $12 \mathrm{~mm} \pm 1 \mathrm{~mm}$ measured from the surface of the platter.
Note 2: Rotate the lifter plate screw counterclockwise to lower the stylus height and clockwise to raise the stylus height.
4. Lead-in count adjustment (Tracking force: 2 grams Anti-skating force: $\mathbf{2}$ grams Speed: $\mathbf{4 5} \mathbf{~ r p m}$ )
Using test record ONK-1000, adjust so the lead-in count is $10-20$ counts for both 30 cm and 17 cm records. Adjust using the PU pulley shutter and NCDG-1683 printed circuit board jumper lead.
The count changes in the following manner as the jumper leads are cut:

| Jumper lead A | 3 count changes |
| :---: | :---: |
| Jumper lead B | 6 count changes |
| Jumper lead C | 12 count chnages |
| Jumper lead $\pm$ | cut: - . connect: + |

5. Return count adjustment (Speed: 45 rpm )

Using test record ONK-1000, adjust so the 3 mm pitch return count is $24-26$ counts. Adjust using the PU pulley eccentricity pin. Confirm that the tonearm does not return until 22 counts at a pitch of 1 mm .

fig. 1

fig. 2

## MECHANISM COMPONENT LOCATION



REF. NO.

| PARTS NO. | DESCRIPTION |
| :--- | :--- |
| 24506644 | Chassis |
| 24504310 | Lever |
| 24503097 | Wheel |
| 24503098 | Cam wheel |
| 24503100 | Tension spring |
| 24506474 | Solenoid |
| 24506437 | Screw |
| 24506463 | Cover |
| 24503102 | Switch |
| 24509234 | Spacer |
| 82112024 | $2 P-24$ FN, Pan head screw |
| 24502125 B | Motor ass'y |
| 24506464 | Rubber plate |
| 82142306 | $2.3 P+6$ FN (BC), Pan head screw |
| 24506596 | Photo diode/transistor ass'y |
| 893030 | E-3, Circlip |
| 893020 | E-2, Circlip |
| 2000241 | NSAS-8P179, Socket |
|  | Belt |
| 24506658 | Label |
| 24506659 | Screw |
| 24506461 | Toothed washer |
|  | Rubber ring |

## MICROCOMPUTER

TMP4315AP (1031)


## COMPONENT LOCATION PARTS LIST

REF. NO. PARTS NO. DESCRIPTION

2 28110269-1 Floating base ass'y
27260125 Stud
24509280 Dust cover ass'
28180077 Hinge ass'y
27170154 Bottom board
24502157A Turntable platter
27210365-1 Front panel
28191190A Clear plate V
28321155 Knob, power
27300598 Mirror
27290211A Holder, mirror
28191189B Clear plate L
27140393 Bracket, AC
27150165 Shield plate
28140209 Cushion
28140485 Cushion
27262224 Plate
28140496 Cushion
24509288
24509308
24509277 Insulator D
24509289 Insulator E
28321163-1 IFC knob
28400012A IFC cam
27180175A IFC spring
870071
24506645 A Arm rest ass'y
24506648 Lifter plate
27260112 Lifter shaft
27180156 Spring
27180067 Spring
8930301S ES-3S, Washer E
87643010 W3x10F (BC), Washer
$833430080 \quad 3 \mathrm{TTP}+8 \mathrm{P}$ (BC), Tapping screw
831430108 3TTW+10B (BC), Tapping screw
831130088 3TTW+8B, Tapping screw
834430108 3TTS +10 B (BC), Tapping screw
834440168 4TTS+16B (BC), Tapping screw
834440108 4TTS +10 B (BC), Tapping screw
801275 Special screw, Power transformer/ Insulator
831130128 3TTS+12B, Tapping screw
$87644012 \quad \mathrm{~W} 4 \times 12 \mathrm{~F}$ (BC), Washer
8761401816 W4x18F (BC), Washer
27270115 Spacer
87313006 M-3B, Toothed washer
835140254 4STF+25A, Tapping screw
28321157 Knob R
28321156 Knob L
M001 $25402154 \quad 789 \mathrm{~V}$, Motor ass'y (Before change) 24502154-1 $\quad 789 \mathrm{~V}$, Motor ass'y (After change) Caution:

Remove the motor control pc board of NADG-1588a when replace from the motor ass'y of before change to the motor ass'y of after change. Refer the motor connection diagram of page 8 .
253099A AS-UC-3, Power supply cable (D) 253083 AS-CEE, Power supply cable (G/W)
Pl 253083
P2
P2
P3
P4

REF. NO. PARTS NO. DESCRIPTION

| P301 | 24506642 | Mechanism ass'y |
| :---: | :---: | :---: |
| P302 | 24501444 | Tone arm ass'y (D) |
|  | 24501146 | Tone arm |
|  | 24501321-1 | Screw |
|  | 24501147 | Weight ass'y |
|  | 24501448 | Counter ring |
|  | 24501449 | Main weight |
|  | 24501325 | Headshell |
| P307 | 24501330 | Cartridge attachment parts ass'y (D) |
|  | 24501138 | Screw |
|  | 24501123 | Nut |
|  | 24500079 | Washer |
| P302 | 24501450 | Tone arm ass'y (G/W) |
|  | 24501446 | Tone arm |
|  | 24501321-1 | Screw |
|  | 24501147 | Weight ass'y |
|  | 24501148 | Counter ring |
|  | 24501149 | Main weight |
|  | 24501325 | Headshell |
|  | 242951 | OC-60VMS, Cartridge ass'y |
|  | 24501441 | BD-60VMS, Cartridge |
|  | 242952 | DN-60STE, Stylus |
|  | 24501443 | Stylus cover |
|  | 24501138 | $2.6 \times 11 \mathrm{~mm}$, Screw |
|  | 24501123 | $2.6 \times 4 \mathrm{~mm}$, Nut |
|  | 24500079 | Washer |
| $\begin{array}{ll}\triangle \\ A & \text { PT101 } \\ A & \\ A & \end{array}$ | 230709 | NPT-811D, Power transformer (D) |
|  | 230710 | NPT-811G, Power transformer (G) |
|  | 230711 | NPT-811ADGQ, Power transformer (U) |
| A SW101 | 2535385 | NPS-111-L349P, Power switch (D) |
| A SW101 | 25035386 | NPS-111-L350P, Power switch (G) |
| $\pm$ SW102 | 25065168 | HXW0131-01-060, Voltage selector (U) |
| U1 | 10128583 | NADG-1683, Digital circuit pc board ass'y |
| U2 | 10128584 | NAPS-1684, Power supply pc board ass'y |
| U3 | 10128585 | NASWL-1685, Play switch pc board ass'y |
| U4 | 10128586 | NASWL-1686, Disl size and speed switches pc board ass'y |
| U5 | 10128587 | NALED-1687, LED pc board ass'y |
| U6 | 10128510B | NAPI-1010b, Output terminal pc board ass'y |
| U7 | 10128517B | NARET-917b, Return detection circut pc board ass'y |
| U8 | 10128588A | NADG-1588a, Motor control pc board ass'y (Only used the unit used the motor ass'y of before change.) |

Note: (D): Only 120 V model
(G): Only 220 V model

Only Universal model


COMPONENT LOCATION



## PRINTED CIRCUIT BOARD-PARTS LIST

| circuit no. | PARTS NO. | DESCRIPTION |
| :---: | :---: | :---: |
|  | ICs |  |
| Q201 | 222677 | TMP4315AP (1031) |
| Q202 | 222740001 | 74LS00 |
|  | Transistors |  |
| Q203, Q205 | 2211253, | 2SC1815 (0), |
| Q210, Q212 | 2211254, | $2 \mathrm{SC1815}$ (Y), |
| Q214-Q219 | 2211255, | 2SC1815 (GR), |
|  | 2210746, | 2SC945A (P), |
|  | 2210747 or | 2SC945A (Q) or |
|  | 2210748 | 2SC945A (K) |
| Q204 | 2211706 | $2 \mathrm{SC655}$ (F) |
| Q206-Q209 | 2211544 | 2SC1959 (Y) |
| Q211 | 2211644 | 2SA965 (Y) |
| Q213 | 2211544 | 2SC1959 (Y) |
| Q301-Q303 | 2211254 or | 2SC1815 (Y) or |
|  | 2211255 | $2 \mathrm{SC1} 815$ (GR) |
| Q901 | 2201074 | 2SD880 (Y) |
| Q902 | 2211254, | $2 \mathrm{SC1} 815$ (Y), |
|  | 2211255, | 2SC1815 (GR), |
|  | 2210747 or | 2SC945A (Q) or |
|  | 2210748 | 2SC945A (K) |
| Q903-Q905 | 2201074 | 2SC880 (Y) |
|  | Diodes |  |
| D201, D202 | 223145, | 1S2076TD, |
| D206-D209 | 223150, | US1040, |
| D904 | 223105 or | 1S1555 or |
|  | 223133 | DS442X |
| D203-D205 | 223103 or | 1 N 60 or |
| D210-D215 | 223132 | 1K60 |
| D901 | 223869 | w01 |
| D902 | 223862 | WL01 |
| D903 | 224200 or | 05Z18-Z or |
|  | 2241193 | GZA18Z |
| D905, D907 | 224190 or | D5Z13-Y or |
|  | 2241132 | GZA13Y |
| D906 | 224162 or | 05Z5.6X or |
|  | 2240951 | GZA5.6X |
| D908 | 223848 | GP08B |
|  | Transformer |  |
| L201 | 232109 | NMIF-6042 |
|  | Capacitors |  |
| C202 | 352780109 | $1 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect. |
| C205, C206 | 352784799 | $0.47 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect. |
| C217, C218 | 352782299 | $0.22 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect. |
| C219-C222 | 352731019 | $100 \mu \mathrm{~F}, 10 \mathrm{~V}$, Elect. |
| C301 | 352734709 | $47 \mu \mathrm{~F}, 10 \mathrm{~V}$, Elect. |
| C302 | 352733309 | $33 \mu \mathrm{~F}, 10 \mathrm{~V}$, Elect. |
| C903 | 352784719 | $470 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect. |
| C904 | 352751029 | $1,000 \mu \mathrm{~F}, 25 \mathrm{~V}$, Elect. |
| C905 | 352753319 | $330 \mu \mathrm{~F}, 25 \mathrm{~V}$, Elect. |
| C907 | 352754709 | $47 \mu \mathrm{~F}, 25 \mathrm{~V}$, Elect. |
| C908 | 352784709 | $47 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect. |
| C910, C911 | 352754709 | $47 \mu \mathrm{~F}, 25 \mathrm{~V}$, Elect. |
|  | Resistors |  |
| R201-R204 | 49121472504 | 4.7kohmx4, 1/8W, Network |
| R205-R209 | 49121332505 | 3.3kohmx $5,1 / 8 \mathrm{~W}$, Network |
| R210-R217 | 49121223508 | 22kohmx $8,1 / 8 \mathrm{~W}$, Network |
| R903-R905 | 441722704 | $27 \mathrm{ohm}, 2 \mathrm{~W}$, Metal oxide film |
|  | Sockets |  |
| P204 | 2000239 | NSAS-5P177, DD motor |
| P205 | 2000236 | NSAS-3P174, Pulse motor |
| P206 | 2000237 | NSAS-3P175, Pulse motor |


| CIRCUIT NO. | PARTS NO. <br> Plugs | DESCRIPTION |
| :--- | :--- | :--- |
| P208 | 25055042 | NPLG-3P32, Return |
| P209 | 25055066 | NPLG-7P52, Play |
| P210 | 25055051 | NPLG-8P39, Mechanism |
| P211 | 25055067 | NPLG-9P53, Tape speed |
|  | Radiator  <br>  27160029 | RAD-07 |
|  |  |  |
| POWER SUPPLY PC BOARD (NAPS-1684) |  |  |
| CIRCUIT NO. | PARTS NO. | DESCRIPTION |
| A. C991 | 3500065A | $0.01 \mu-$ F, AC400V/125V, Capacitor |
|  |  | IS |

PLAY SWITCH PC BAORD (NASWL-1685)
CIRCUIT NO. PARTS NO. DESCRIPTION

| D501 | 225116 or | SEL1210R (B) or |
| :--- | :--- | :--- |
|  | 225117 | SEL1210R (C), LED |
| SW501 | 25035291 | NPS-111-S257, Push switches |
| P502 | 2000240 | NSAS-7P178, Socekt |

DISK SIZE AND SPEED SWITCHES PC BOARD (NASWL-1686)

| CIRCUIT NO. | PARTS NO. | DESCRIPTION |
| :--- | :--- | :--- |
| D601, D603, | 225137 | SEL2413E, LEDs |
| D605 |  |  |
| D602, D604 | 225126 | GL-3PR1, LEDs |
| SW601 | 25035291 | NPS-111-S257, Push switches |
| P602 | 2000242 | NSAS-9P180, Socket |
|  | 28140489 | Cushion |
|  | 27190213 | Holder S |

LED PC BOARD (NALED-1687)
CIRCUIT NO. PARTS NO. DESCRIPTION

| D401-D405 | 225116 or | SEL1210R (B) or |
| :--- | :--- | :--- |
|  | 225117 | SEL1210R (C), LEDs |
|  | 27190212 | Holder V |

OUTPUT TERMINAL PC BOARD (NAPI-1010b)
CIRCUIT NO. PARTS NO. DESCRIPTION
P802 24505127 Output cable
RETURN DETECTION CIRCUIT PC BOARD (NARET-917b)

| CIRCUIT NO. | PARTS NO. | DESCRIPTION |
| :--- | :--- | :--- |
| Q701 | 2211254 or | 2SC1815 (Y) or |
|  | 2211255 | 2SC1815 (GR), Transistor |
| D701 | 225053 or | SEL1110R (B) or |
|  | 225054 | SEL110R (C), LED |
| D702 | 225055 | Photo diode ass'y |
| R703 | 5215051 | NO8HR1KBF, Semi-fixed resistor |
| P702 | 2000238 | NSAS-3P176, Socket |
| P703 | 27140411 A | Bracket L |

MOTOR CONTROL PC BOARD (NADG-1588a)
CIRCUIT NO. PARTS NO. DESCRIPTION
D611-D613
C631
DS-442X
$1 \mu \mathrm{~F}, 50 \mathrm{~V}$, Elect.

## PACKING VIEW

120/220V model
29340686 Instrucition manual 292049A 45rpm adaptor 29509197 Overhang gauge 25055040 C-V-K2, Conversion plug $29100005 \quad 220 \times 330 \mathrm{~mm}$, Poly-vinyl bag 260012 282301


REF. NO. PARTS NO. DESCRIPTION

| 29050755 | Master carton box |
| :--- | :--- |
| 29090785 A | Pad |
| 29090826 | Pad, tonearm |
| 29090825 | Pad L |
| 29090787 | Pad sheet |
| 29100067 | $750 \times 750 \mathrm{~mm}$, Poly-vinyl bag |
| 29095295 | Sheet |
| 24502157 A | Turntable platter |
| 24509183 | T.T. sheet |
| 29100046 | 370x470mm, Poly-vinyl bag |
| 24501449 | Counter weight |
| 29100002 A | 80x150mm, Poly-vinyl bag |
| 260013 | P.P tape |
|  | Accessary bag complete |

120V model

| 29340685 | Instruction manua |
| :--- | :--- |
| 292049 A | 45 rpm adaptor |
| 24509197 | Overhang gauge |

$24501330 \quad$ Cartiridge attachment parts ass'y
29358002 Service station list (Only USA model)
29365006-5 Warranty card (Only USA model)
$29100005 \quad 220 \times 330 \mathrm{~mm}$, Poly-vinyl bag
220 V model
29340686 Instruction manual
292049A 45 rpm adaptor
24509197 Overhang gauge
29358004 Service station list (only West Germany model)
29365005-3A Warranty card (Only West Germany model) $220 \times 330 \mathrm{~mm}$, Poly-vinyl bag


## ONKYO CORPORATION

International Division: No. 24 Mori Bldg., 23-5, 3-chome, Nishi-Shinbashi, Minato-ku, Tokyo, Japan
Telex: 2423551 ONKYO J. Phone: 03-432-6981

## ONKYO U.S.A. CORPORATION

200 Williams Drive, Ramsey, N.J. 07446 Tel. 201-825-7950
ONKYO DEUTSCHLAND GMBH, ELECTRONICS
8034 München-Germering, Industriestrasse 18, West Germany. Telex: 521726 Telefon: (089)-84-3071

## PARTS LIST

MODEL CP-1055F

| REF. NO | PART NO. | DESCRIPTION | REF. NO. | PART N 0. | description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 28110268-1 | Cabinet |  | 27270115 | Spacer |
| 2 | $\begin{aligned} & 28110269-1 \\ & 28110269-1 \mathrm{~A} \end{aligned}$ | Floating base assy (2501-) | 42 | 87313006 | M-3B, Toothed washer |
|  | 27260125 | Stud (1-2500) | 43 | 28321157 | Knob R |
| 3 | 24509280 | Dust cover ass'y | 44 | 28321156 | Knob L |
| 4 | 28180077 | Hinge ass'y | M001 | 24502154-1A | 789V, Motor ass'y |
| 5 | 27170154 | Bottom board | P1 | 253099B | AS-UC-3, Power |
| 6 | 24502157A | Turntable platter |  | 253083-1 | supply cord <D> AS-CEE, Power |
| 7 | 27210365-1 | Front panel |  |  | supply cord <G> |
| 8 | 28191190A | Clear plate V | P2 | 270025 | SR-3P-4, Strain- |
| 9 | 28321155 | Knob, power |  |  | relief < D |
| 10 | 27300598 | Mirror |  | 270280 | SR-4K-4, Strain- |
| 11 | 27190211A | Holder, mirror<E> |  |  | relief <G> |
| 12 | 28191189B | Clear plate L | P3 | 260208 | Binder |
|  | 28191189C | (1001-) | P4 | 25050045 | NSCT-7P14, Terminal |
| 13 | 27140393 | Bracket, AC |  |  | remote |
| 14 | 27150165 | Shield plate | P301 | 24506642 | Mechanism ass'y |
| 15 | 28140209 | Cushion | P302 | 24501445A | Tone arm ass'y < D > |
| 16 | 28140485 | Cushion |  | 24501446A | Tone arm |
| 17 | 27262224 | Plate |  | 24501321A | Special screw |
|  | 28140496A | Cushion |  | 24501447A | Weight ass'y |
| 18 | 24509288A | Insulator L |  | 24501448 | Counter ring |
| 18A | 24509308A | Insulator L |  | 24501449A | Main weight |
| 19 | 24509277 | Insulator D |  | 24501325 | Headshell |
| 20 | 24509289 | Insulator E | P307 | 24501330 | Cartridge attach- |
| 21 | 28321163-1 | IFC knob |  |  | ment parts ass'y |
| 22 | 28400012A | IFC cam |  |  | <D> |
| 23 | 27180234 | IFC spring |  | 24501138 | Screw |
| 24 | 870071 | WW-6, Wave washer |  | 24501123 | Nut |
| 25 | 24506645A | Arm rest ass'y |  | 24500079 | Hasher |
| 26 | 24506648 | Lifter plate | P302 | 24501445A | Tone art ass'y < ${ }^{\text {c }}$ > |
| 27 | 27260112 | Lifter shaft |  | 24501446A | Tone ar |
| 28 | 27180156 | Spring |  | 24501321A | Special screw |
| 29 | 27180067 | Spring |  | 24501447A | Weight ass'y |
| 30 | 89303015 | ES-3S, Washer E |  | 24501448 | Counter ring |
| 31 | 87643010 | $\# 3 \times 10 \mathrm{~F}$ (BC) , |  | 24501449 | Main weight |
|  |  | Washer |  | 24501325 | Headshell |
| 32 | 833430080 | $3 \mathrm{~T} \mathrm{P}+8 \mathrm{P}$ (BC), |  | 242951 | OC-60VMS, Cartridge |
|  |  | Tapping screw |  | 242952 | DN-60STE, Stylus |
| 33 | 831430100 | $3 \mathrm{TTW}+10 \mathrm{P}(\mathrm{BC})$, |  | 24501443 | Stylus cover |
|  |  | Tapping screw |  | 24501138 | $2.6 \times 11$, Screw |
| 34 | 831130088 | 3TTW+8B, Tapping |  | 24501123 | $2.6 \times 4$, Nut |
|  |  | screw |  | 24500079 | Washer |
| 35 | 834430108 | $3 \text { TTS }+10 \mathrm{~B}(\mathrm{BC}) \text {, }$ <br> Tapping screw | PT101 | 230709A | NPT-811D, Power transforeer < D> |
| 36 | 834440168 | $4 \mathrm{TTS}+16 \mathrm{~B}(\mathrm{BC})$, |  | 230710 | NPT-811G, Power |
|  |  | Tapping screw |  |  | transformer < C > |
| 37 | 834440108 | $4 \mathrm{TTS}+10 \mathrm{~B}$ (BC), | SW101 | 25035385 | NPS-111-L349P, |
|  |  | Tapping screw |  |  | Power switch < D> |
| 39 | 801275 | Special screw, |  | 25035386 | NPS-111-L350P, |
|  |  | Power transformer \& Insulator | U1 | 10128583 | Power switch <G> NADG-1683, Digital |
| 40 | 87644012 | W $4 \times 12 \mathrm{~F}(\mathrm{BC})$, |  |  | circuit pc board |
|  |  | Washer |  |  | ass'y |
| 1 | 8761401816 | W $4 \times 18 \mathrm{~F}(\mathrm{BC}$ ), Washer |  |  |  |

## Page 2

| REF.NO. | PART NO. |
| :--- | :--- |
| U2 | 10128584 |
| U3 | 10128585 |
| U4 | 10128586 |
| U5 | 10128587 |
| U6 | 10128510 B |
| U7 | $10128517 B$ |

DESCRIPTION
NAPS-1684, Power supply pc board ass'y
NASHL-1685, Play switch pe board ass'y
NASWL-1686, Disk size and speed switch pc board ass'y
NALED-1687,LED pc board ass'y
NAPI-1010b, Output terminal pc board ass'y
NARET-917b, Return detection circuit pc board ass'y

## CP=105SE SEFVICE INPOPMATION

sumpran

## ACOUSTIC FERTDBACK (HDWIING)

 If the lovel is higher than average, check and ifx it by this'informetion. GAUSE

Flosting base ass'y is not ires from the cabinet and it touchos erowd the right cormer neariy the arm ahatt.

HOW.TO FIX
Adjust the hedght adjustrent screws of the platter. (Rafer service marual page 2 PLI 2.)
Turging the sorow(s) ciockwist, the Doating base move upward and FIOE Fertse,
The screv(s) ghoulid be adjusted through the holes of the platter.

## PROCEDURE

Adjust the screv(A) turoding clockwse one or two trans.
If the Lloating bese is not free yet, adjust the scrow( $B$ ) and sorev( $f$ ).
The $\operatorname{screw}(h)$ is the most effective to adjust and the ecrev( $B$ ) and screw ( $C$ ) are Less.


NOTE
Those adjustrent of the Noating base have priority over the height of platter ( $24 \pm 3$ min ) descrived in eervice manial.

## COMFIEMATION

Fush the (*) part Iightiy and cheak the Noating base is fres.

