

ONKYO SERVICE MANUAL

AUTOMATIC RETURN TURNTABLE MODEL CP-101A



UDN, UDC, UD	120V AC, 60Hz
UPV, UP	230V AC, 50Hz
UW	120 or 220V AC, 50/60Hz
UQA	240V AC, 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  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

Type:	2-speed automatic-return turntable with cueing lever
Turntable Platter:	31 cm (12-1/4") Aluminum diecast
Motor:	DC servo motor
Speeds:	33-1/3 rpm, 45 rpm
Wow & Flutter:	0.045% WRMS
Signal-to-Noise Ratio:	66 dB (IEC-Y, DIN-B)
Tonearm:	Static balanced straight-type pipe arm
Effective Arm Length:	210mm (8-5/16")
Overhang:	13mm (1/2")
Maximum Tracking Error:	+4.5 degrees, -1 degree
Cartridge:	
Type:	Moving magnet
	OC-74M
Frequency Response:	20Hz - 20,000Hz
Recommended Load Impedance:	47 kohms
Recommended Tracking Force:	2 grams
Output Voltage:	2.5mV
Replacement Stylus:	DN-74ST
Power Supply Rating:	AC120V, 50/60Hz
Dimensions (WxHxD):	418mmx132mmx374mm
	16-1/2"x5-1/6"x14-3/4"
Weight:	3,7kg (8,2lbs.)

Optional Recommended Headshell: SH-21F

In the interest of further product improvements, specifications are subject to change without notice.

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AUDIO COMPONENTS

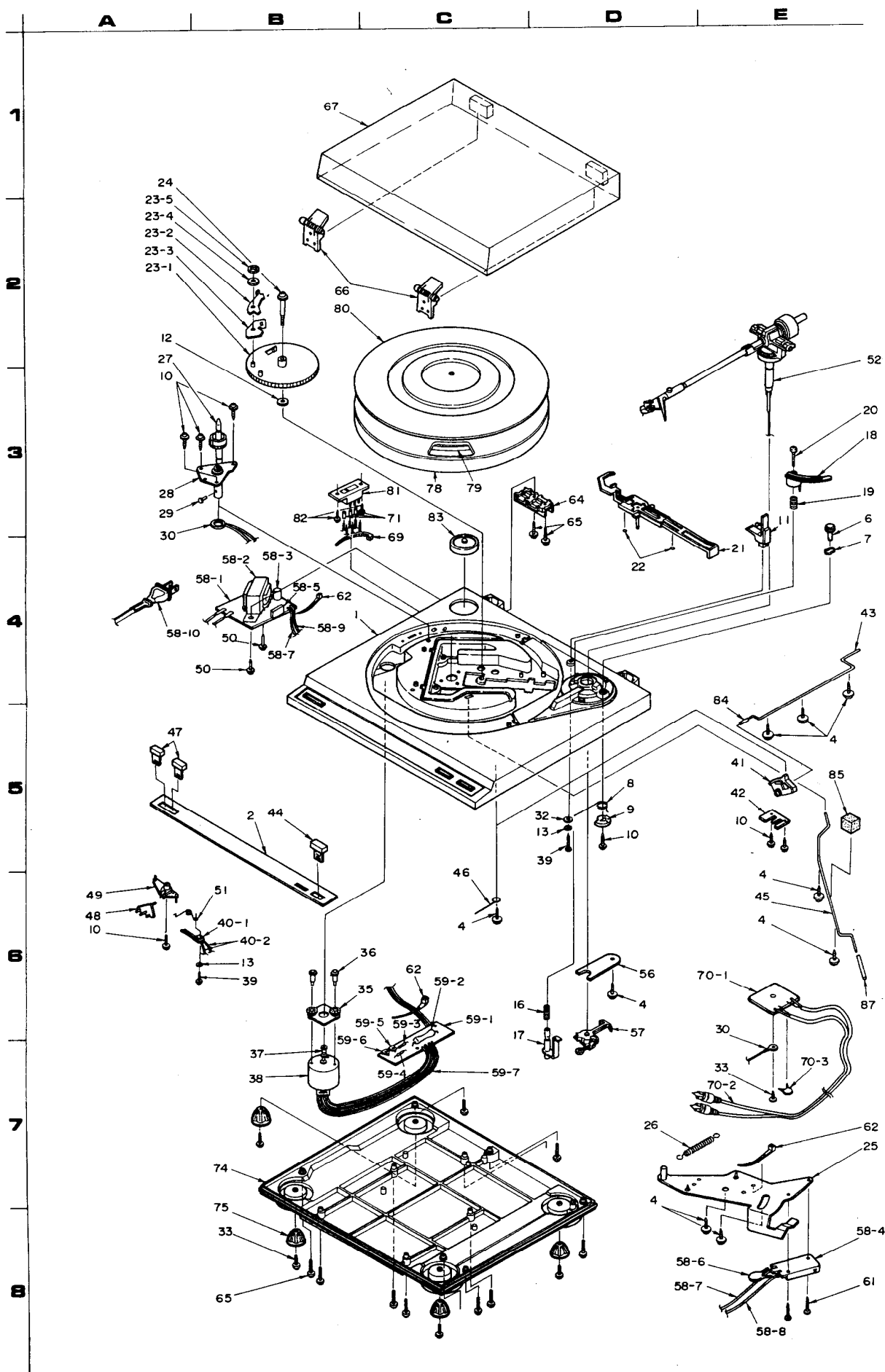
PARTS LIST

REF. NO.	PART NO.	DESCRIPTION				
	28110634	CABINET (BLACK)	51	24503113	SPRING	
	28110635	CABINET (SILVER)	52	24501528	PU ARM	
	27262550	PLATE	52-1	24501321A	SCREW	
	801295	TAPPING SCREW 3STW+8B	52-2	24501471	COUNTER WEIGHT	
	24501571	KNOB AS (I.F.C.)	52-3	24501354	HEAD SHELL	
	24506243	WAVE WASHER	52-4	242983	OC-74M (G/U)	
	24503131	SPRING (I.F.C.)	52-5	242984	DN-74ST (G/U)	
	24504271	I.F.C. CAM	56	24506787	PLATE (PU)	
	831430088	TAP-TIGHT SCREW 3TTW+8BBC	57	24509301	ACTUATING ARM AS	
	24509294	ARM REST AS	58	24502244-5	P.C.B. AS (POWER SUPPLY) (D)	
	87613008	WASHER W3×8FN	58	24502244-6	P.C.B. AS (POWER SUPPLY) (G)	
	871430	SPRING WASHER SW-3 BC	58-2	24502244-2A	P.C.B. AS (POWER SUPPLY) (U)	
	24503166	SPRING (EV)	58-2	24502244-4	P.C.B. AS (POWER SUPPLY) (Q)	
	24506660-1	SHAFT (EL)		2300176	NPT-948D (D)	
	24504321	ELEVATION PLATE		2300793	NPT-948P (G)	
	24503144	SPRING		2300208	NPT-948BP (U)	
	24505211	COSMETIC SCREW CT2.6+14	58-3	2300207	NPT-948Q	
	24506661	ACTUATING ARM	58-3	354754719	470μF 25V	
	270555	STEEL BALL	58-4	24503023	MICRO SWITCH	
	24506662	MAIN GEAR AS 2	58-5	22380011	SQVB10	
	24503032	MAIN GEAR AS	58-6	335624730	0.047μF 50V	
	24506663	CLUTCH	58-10	253142A	AC CORD (D)	
	87613008	WASHER W3×8F		253149	AC CORD (G/U)	
	891030	STOP RING CS-3	59	24502207-1	P.C.B. AS (MOTOR)	
	24506537	SCREW	59-5	5215044	NO8HR5KBC	
	24506220	ACTUATING PLATE AS	59-6	5215046	NO8HR50KBC	
	24503146	SPRING (OPE)	61	82142614	PAN-HEAD SCREW 2.6P+14FN	
	24502163	PLATTER SHAFT	62	260208	SK BINDER	
	24502164	PLATTER SHAFT BEARING	64	24506517	CORD HOLDER	
	24502165	PIN	65	831430168	TAP-TIGHT SCREW 3TTW+16B	
	24505179-1	LEAD AS (GND)	66	28180080	HINGE (BLACK)	
	87613006	WASHER FW3.2×6×5	67	24509320	DUST COVER	
	831130108	TAP-TIGHT SCREW 3TTW+10B	70	24502245	P.C.B. AS (PHONO) (D)	
	24502247	MOTOR AS	70-2	24502248	P.C.B. AS (PHONO) (G/U)	
	24506786	CUSHION (MOTOR)		24505253	SHIELD WIRE AS (D)	
	24506788	SCREW M2.6×6×8	74	24505254	SHIELD WIRE AS (G/U)	
	24502191	MOTOR PULLEY	75	27170161A	BOTTOM BOARD	
	24502242	MOTOR	78	27175043	LEG	
	834430128	TAP-TIGHT SCREW 3TTs+12BB	79	24502158	PLATTER	
	24504427	LEAF SWITCH AS	80	242129B	DRIVER BELT	
	24504428	LEAF SWITCH		24509323	PLATTER MAT (D)	
	24603306	CUEING LEVER	81	24509378	PLATTER MAT (G/U)	
	24504402	HOLDER (LEVER)	82	25065287	SDKGA4, SWITCH (U)	
	24504416	QUE ROD	83	831430108	3TTW+10B(BC), SCREW (U)	
	28322097	BUTTON (REJ)	84	292093	45 RPM ADAPTER	
	24503135	SPRING (REJ)	85	75230	1.6φ TUBE	
			87	24509373	CUSHION	
				79003	1.7φ×28 TUBE	

NOTE: [D]: Only 120V model
[G]: Only 230V model
[U]: Only World model
[Q]: Only 240V model

NOTE: THE COMPONENT IDENTIFIED BY MARK **Δ** ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PARTS NUMBER SPECIFIED.

EXPLODED VIEW



SERVICE PROCEDURES

Instruction resistance measurement

Connect the insulating-resistance tester between the plug of power supply cord and chassis.

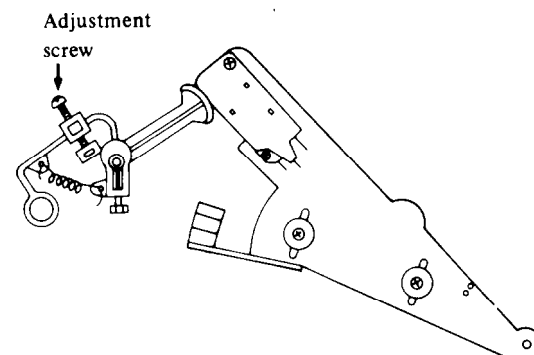
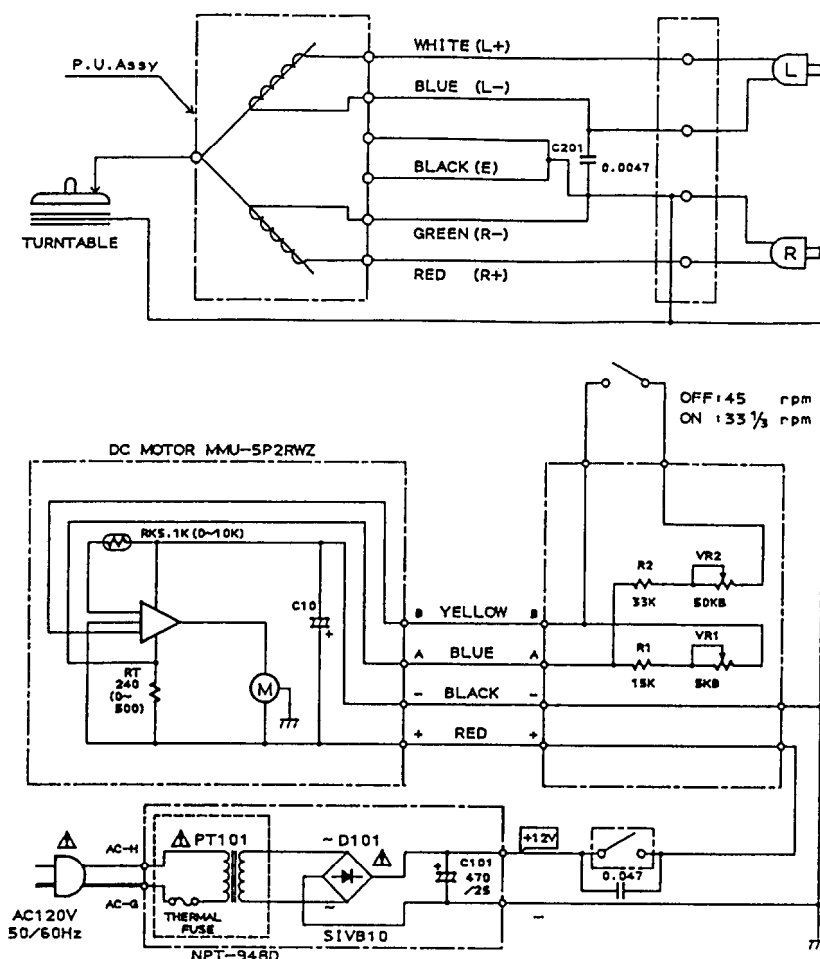
Specifications: G/W models 500 V more than 10 MΩ

ADJUSTMENT PROCEDURES

Automatic shut-off position adjustment

Adjust the shut-off position with the fine adjustment screw. After the adjustment, apply lock-tite to the screw. To adjust the shut-off position for earlier, turn the screw counter-clockwise. To adjust the shut-off position for later, turn the screw clockwise.

CONNECTION DIAGRAM

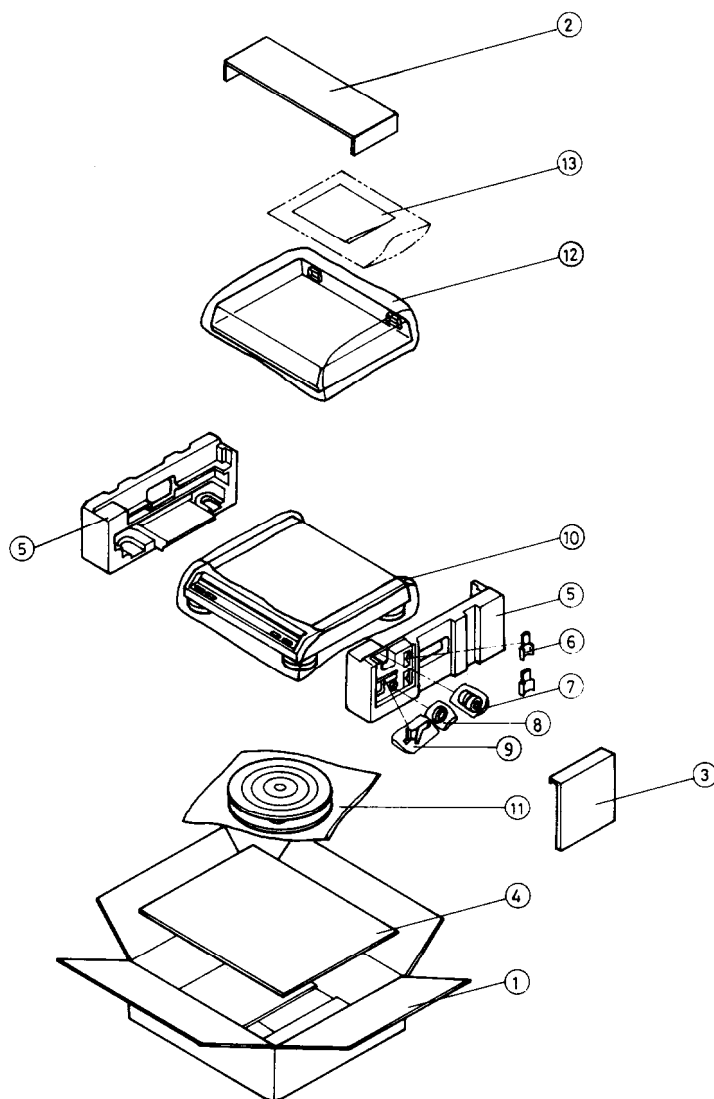


POWER	PT101
AC120V 50/60Hz	NPT948D 033513
AC230V 60Hz	NPT948P 033660
AC240V 60Hz	NPT948Q 033541
AC110/120 /220/240V 50/60Hz	NPT948BP 033542

NOTES

- ALL RESISTORS ARE IN OHMS 1/4WATT UNLESS OTHERWISE NOTED.
- ALL CAPASITORS ARE IN μF 50V UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPASITORS ($\pm$) ARE IN μF/WV.
- VOLTAGE (MEASURED WITH V.T.V.M) (NO INPUT SIGNAL).
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

PACKING VIEW



REF. NO.	PART NO.	DESCRIPTION
1	29052397	Master carton box (Black model)
	29052398	Master carton box (Silver model)
2	24509374	Pad sheet (UP)
3	24509372	Pad sheet
4	24509370	Pad sheet (Bottom)
5	29090822	Pad(L)+Pad(R)
6	28180080	Hinge
7	24501471	Main weight
8	292049A	45 rpm adapter
9	24501330	Cartridge attachment parts ass'y
	24501354	Headshell
	29100002	70×120mm, Poly-vinyl bag for 7, 8 and 9
10	29095012-1	500×800, Protection sheet
11	24509323	T.T Mat (D)
	24509378	T.T Mat (G/U)
	24502158	Turntable platter
	29100046	370×470, Poly bag
12	24509320	Dust cover
	29100050	Protection sheet
13		Accessory bag complete

120V model

29341723A	Instruction manual
24509197	Overhang gauge
29365019A	Warranty card (Only USA model)
29358002J	Service station list (Only USA model)
29100006A	250×350 Poly bag

230V model

29341724A	Instruction manual
29365020E	Warranty card (Only West Germany model)
29100094	Poly bag
2910006A	250×350 Poly bag

Universal model

29341724A	Instruction manual
25055040	CVK-2, Conversion plug
29100006A	250×350 Poly bag

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