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-1455

S-3300



USA Model Canada Model

TURNEAGLE SYSTEM

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz

Power Consumption: 6W

Dimensions:

455 (w) x 153 (h) x 352 (d) mm 18 (w) x 6 (h) x 13 1/8 (d) inches

including projecting parts and controls

Weight:

Approx. 8.0 kg, 17 lb 11 oz (net) Approx. 9.7 kg, 21 lb 7 oz (in shipping carton)

TURNTABLE

Platter: $30.8 \,\mathrm{cm} \, (12^{1}/8 \,\mathrm{inches})$, Aluminum –

alloy diecast

Motor: DC servo-controlled motor (brushless)

Drive System: Direct drive

> Cartridge is not supplied with this turntable system.

Speeds:

 $33\frac{1}{3}$, 45 rpm

Wow and Flutter:

0.04 % (WRMS)

S/N Ratio:

65 dB (DIN-B)

TONEARM

Statically balanced, universal

Pivot-to-Stylus Length:

216.5 mm (85% inches)

Overhang:

16.5 mm (21/32 inches)

Tracking-Force

Adjustment Range:

0 - 3g

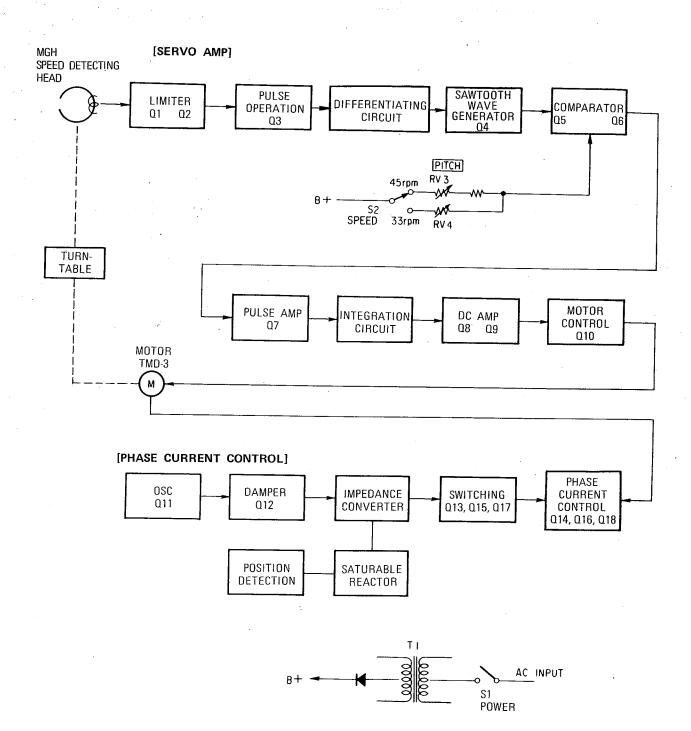
Shell Weight: 7.5 g

Cartridge Weight Range:

4 - 10 g

SONY SERVICE MANUAL

SECTION 1 BLOCK DIAGRAM



ω

SECTION 2

PS-3300

PS-3300

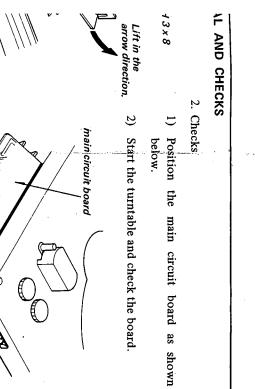
TONEARM PIPE REPLACEMENT

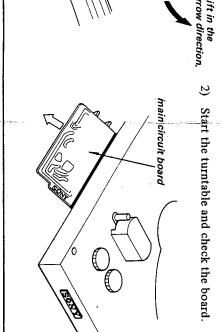
4 tonearm body

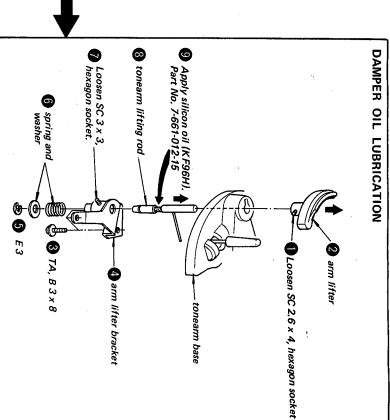
same as the opposite side

. 3 screw, pivot Nut (A), pivot

Nut (B), pivot
(Use pin-face screwdriver)
Part No. 7-700-731-21
d = 3.8 mm)

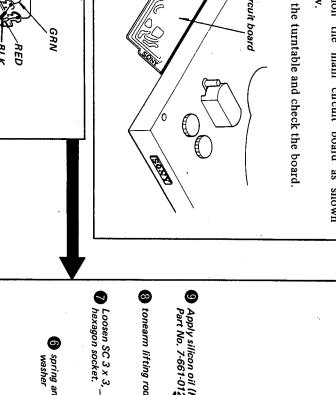


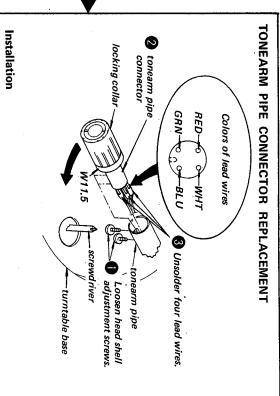


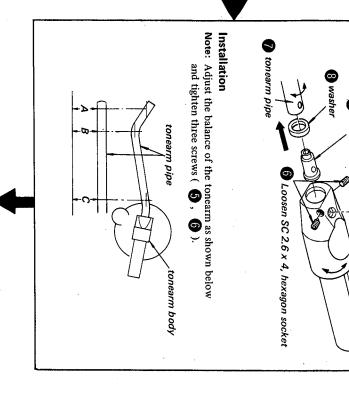


5 Loosen B 2.6 x 6

body







er six lead wires.

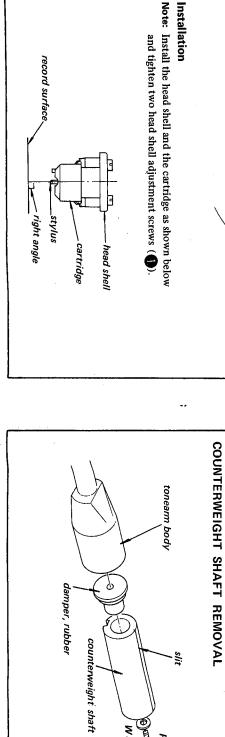
ground lead wire

Phono cord

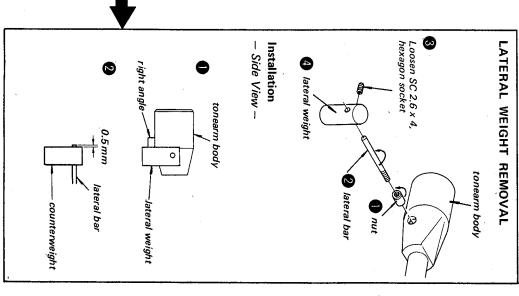
the tonearm

RM BASE REMOVAL

RED



WЗ



right angle

osen SC 3 x 5, kagon socket.

0

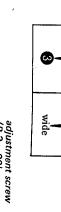
tonearm base

SECTION 3

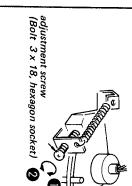
MICROSWITCH (S1) ADJUSTMENT

- 1. Secure the tonearm to the arm rest (lacktriangle).
- 2. Turn the adjustment screw (B 3 x 20) so that the clearance between the microswitch (S1) and the lever is 0.4 mm ($\frac{1}{64}$ ") (4) as shown below.

Turning direction
narrow wide



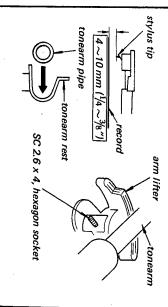




microswitch (S1)

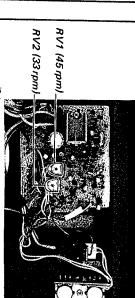
TONEARM HEIGHT ADJUSTMENT

- 1. Lift the cueing lever and confirm that the clearance between the stylus tip and the record on the turntable is 4 - 10 mm as shown below. If necessary, adjust the height of the arm lifter by loosening the set screw.
- 2. After the adjustment, confirm that the tonearm below. smoothly returns to the tonearm rest as shown



TURNTABLE SPEED ADJUSTMENT

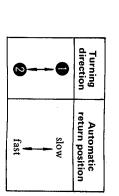
- 1. Set the two pitch control knobs (33 and 45) to the mechanical-mid position.
- 2. Adjust RV1 (45 rpm) and RV2 (33 rpm) so that the stroboscope pattern appears stationary.



- 7 -

AUTOMATIC RETURN ADJUSTMENT

(Bolt 3 x 18, hexagon socket) as shown below. properly, adjust by turning the adjustment screw If the automatic return operation does not work



magnetic coating edge -

 $2 card \\ (t = 0.3 mm)$

Loosen PSW 3 x 8 screws

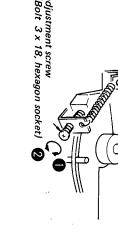
Top View –

Remove the card.

Tighten PSW 3 x 8 screws.

-magnetic coating edge

Contact the speed detecting head to the card.



1. Proceed in the numerical order ($\bullet \bullet - \bullet \bullet$) SPEED DETECTING HEAD ADJUSTMENT - Side View -_speed detecting head turntable platter

2. By viewing the stroboscope, adjust the speed with the pitch control until the pattern appears

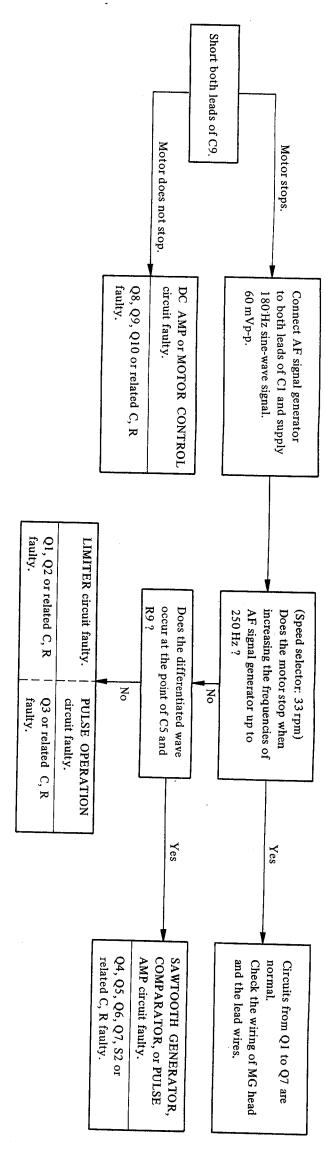
Note: Confirm that the head does not contact the magnetic coating of the platter.

stationary.

SECTION 4

Remove the turntable platter before performing the following steps. Refer to the waveform and dc voltage in the schematic diagram.

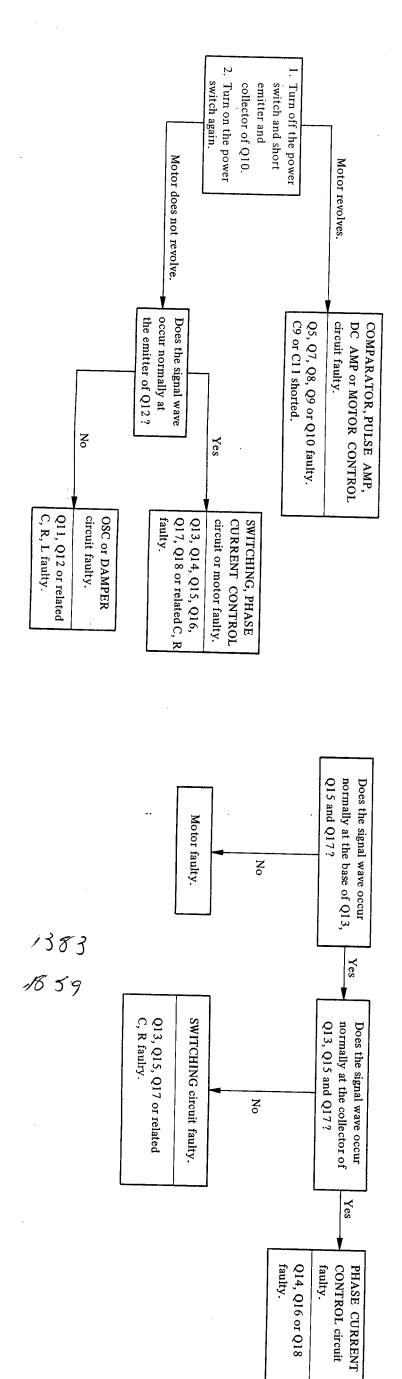
Turntable runs excessively fast.



Turntable will not start.

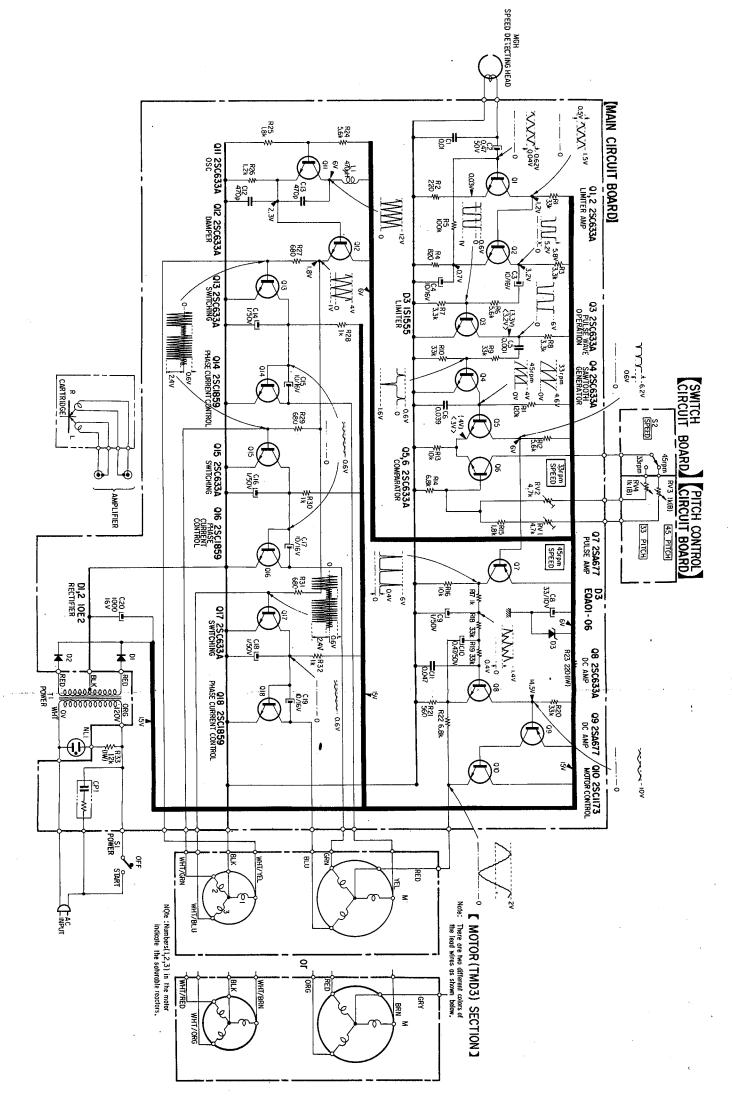
'n

Turntable runs excessively fast or slow.



9

5-1. SCHEMATIC DIAGRAM



- type. $p = \mu \mu F$ capacitors are in μF unless otherwise noted. 50 or less king voltages are not indicated except for electrolytic
- resistors are in Ω , %W, unless otherwise noted. 1,000 M = 1,000 k
- 7 indicates chassis ground.
- indicates B+ circuit, ·
- Waveforms are measured with oscilloscope. Horizontal scale: time Vertical scale: voltage
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20 $k\Omega/V$). no parentheses: 33 rpm 45 rpm common

- Voltage variations may be noted due to normal production tolerances.

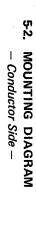
 Voltage between base and emitter are measured with 2.5 V range.

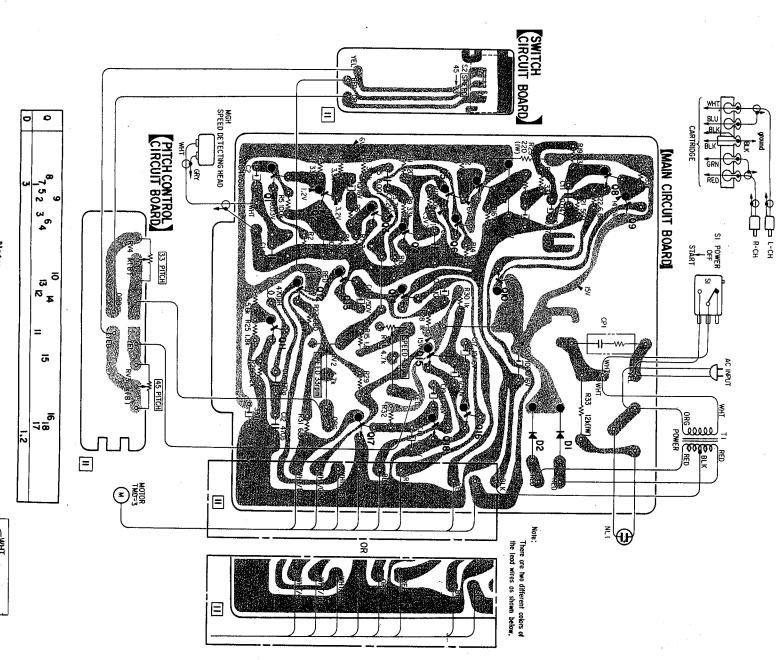
 Switch Mode:
- Ref. No. S1 S2 SPEED POWER Switch 45 rpm Position

 $01 \sim 6, 8$ $011 \sim 13$: 2SC633A 015, 17

Q7, 9: 2SA677

D3: EQA01-06





-13-

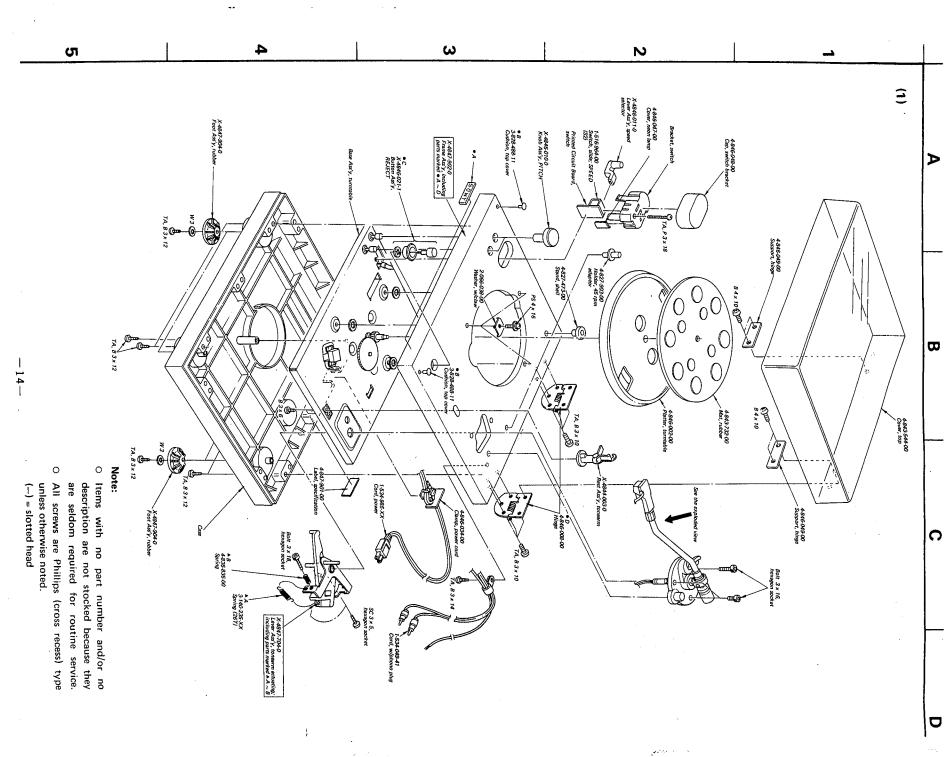
licates B+ pattern.

dicates lead wire connection through e component side.

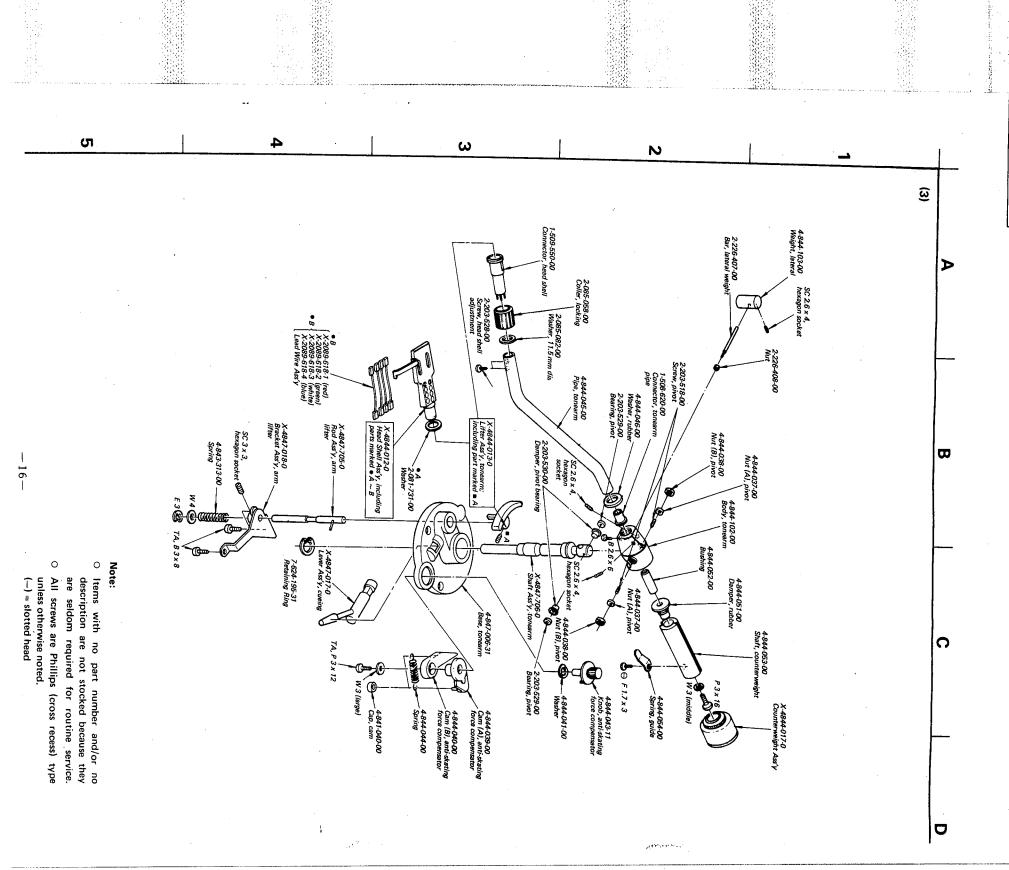
(RED)((RAY))

ECTION 6

(PLODED VIEWS



PS-3300



SECTION 7

ELECTRICAL PARTS LIST

	* *		•														4.4.														-
C12, 13	C10	C8	C6	CS	C3, 4	C2	C1	noted exce	All capacitinoted. (p :		LI		i	⇒ D3	⇒D1. 2		Q18	⇒Q17	Q16	⇒ Q15	Q14	⇒Q11~13	Q10	⇒ Q9	⇒ Q8	⇒ Q7	⇒ Q1 ~ 6				Ref. No.
1-102-114-11	1-121-951-11 1-121-951-11 1-161-036-11	1-121-402-11	1-108-811-12	1-102-074-11	1-121-651-11	1-121-726-11	1-101-923-11	noted except for electrolytic type.	All capacitors are in μF and of electrolytic unless otherwise noted. (p = $\mu \mu F$) 50 and/or less working voltages are not	CAP,	1-407-177-00	0				5													Tra	SEMICO	Part No.
470 p	0.47 5 0.047	33 1	0.039	0.001			0.01	type.	of electrolytic less working v	CAPACITORS	MICTORNAR	COIL	,	10QB01-06	10D2	Diodes	2SC1859	2SC634A	2SC 1859	2SC634A	2SC1859	2SC634A	2SC1173	2SA678	2SC634A	2SA678	2SC634A		Transistors	SEMICONDUCTORS	Description
ceramic	50 V ceramic	10V	mylar	ceramic	16 V	50 V	ceramic		unless otherwise oltages are not		MICIOIRAGEIOA, 470 pra	470 : U		6)n
***************************************				TI		NL1	МСН	⊼ (f	}	S2	S1		RV3, 4	RV1. 2	R33		R23	diagram fo	composition	All resistor			C20	C19	C18		C17	C16	C15	C14	Ref. No.
	1-534-985-XX 1-536-401-XX	1-534-049-41	1-508-620-00	1-442-632-00		1-519-135-00	1-543-066-00	Y-4846-006-0	MISCEL	1-516-964-00	1-516-028-XX	SWI	1-224-813-00	1-224-644-XX	1-213-156-11		1-213-135-11	diagram for the resistance values. $(K = 1000)$	composition resistors are omitted. Check the schematic	All resistors are in ohms. Regular-type ¼ W		RESI	1-121-245-00	1-121-651-11	1-121-391-11		1-121-651-11	1-121-391-11	1-121-651-11	1-121-391-11	Part No.
	Cord, powe Terminal St	Cord.	Conne	Transi		Lamp, neor	Head,	Encap Motor	MISCELLANEOUS	Slide,	Micro	SWITCHES	l k	4.7 k	12 k		220	ues. (k =	tted. Ch	ular-type		RESISTORS	1000	10	_		10	-	10		Descr
	Cord, power Terminal Strip	Cord, w/phono plug	Connector, tonearm p Connector, head shell	Transformer, power		, neon	Head, speed detecting	Encapsulated Compo Motor Ass'y, TMD-3	. US	Slide, SPEED	Micro, power		variable, PITCH	4.7 k adjustable	1 W		I W	(0001	eck the s	1/4 W car			16 V	16 V	50 V		16 V	50 V	16 V	50 V	Description
	ó	plus	Connector, tonearm pipe Connector, head shell	ower			tecting	Encapsulated Component Motor Ass'y, TMD-3					РІТСН	₹.	metal-oxide (nonflammable)	(nonflammable)	metal-oxide		chematic	carbon and											

^{⇒:} Due to replacement parts, the discriptions are different from the disorams

HARDWARE NOMENCLATURE

				Screw:
cross-recessed head (Phillips type).	Unless otherwise indicated, it means	Type of head *DD-	D: Diameter in mm	-P3×10 L: Length in mm
PTF	PTF	ΑT		Refer

711	7	В	RK	^	D	PSW	PS PSP	PWH	P		Reference Designation	
Ð	Û		T	ŢŢ	Û	***	F		Ü		Shape	
flat-fillister-head screw	truss-head screw	binding-head screw	oval-countersunk-head screw	flat-countersunk-head screw	round-head screw	pan-head screw with spring and flat washers	pan-head screw with spring washer	pan-head screw with washer face	pan-head screw	SCREWS	Description	
	binding-head (B) screw for replacement				binding-head (B) screw for replacement	binding-head (B) screw and spring and flat washers for replacement	binding-head (B) screw and spring washer for replacement	binding-head (B) screw and flat washer for replacement	binding-head (B) screw for replacement		Remarks	

Ü T

Designation	TA	PTP	HMd1d	₽ HWTT9		SC	SC		z		W	SW	LW	LW		Е	ဝ
Shape						(f)	⊚ ⊡		⊕ ⊕		0	⊗ §	0	٥		2	9
Description SELF-TAPPING SCREWS	self-tapping screw	pan-head self-tapping screw	pan-head self-tapping screw with washer face	pan-head thread-rolling screw with washer face	SET SCREWS	set screw	hexagon-socket set screw	NUT	nut	WASHERS	flat washer	spring washer	internal-tooth lock washer	external-tooth lock washer	RETAINING RINGS	retaining ring	grip-type retaining ring
Remarks	ex: TA, P3 x 10	binding-head self- tapping (TA, B) screw for replacement	binding-head self tapping (TA, B) screw and flat washer for replacement	binding-head (B) screw and flat washer for replacement			ex: SC 2.6 x 4, hexagon socket						ex: LW3, internal	ex: LW3, external			

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SONY

Service Bulletin No. 81

SONY CORPORATION OF AMERICA

Technical Publications Department 47-47 Van Dam Street, Long Island City, New York 11101

May 11, 1979

Date:

Model: PS-3300

Subject: Improved tone arm

Several parts in the tone arm have been changed to improve performance and reliability. As the following table shows, the changes may involve a change in the number of parts as well as the shape of the part. Note also that the part number for the new Tonearm Shaft Assembly is the same as that of the old one. The new type will be supplied whenever this item is ordered.

Part Number Part Number of

A supplied to the second secon					
		Screw, pivot	2203-518-11	Shaft ass'y, tonearm Bearing, pivot Screw, pivot Screw, pivot bearing Damper, pivot bearing	Description
	X.4847.706.0 Shaft Assy, tonearm			X-484-770-60 2-203-529-00 2-203-518-00 2-203-530-00	Part Number of Original (
			0	21221	Qty.
Bearing, pivot 4-847-716-00 Shaft ass'y, tonearm X-484-770-60			Screw, pivot bearing 3-701-506-01	X-484-770-60 1 4-847-716-00 1 2-203-518-11 2 3-701-506-01 1	Part Number of Replacement Qty
	· . · · · · · · · · · · · · · · · · · ·			<u> </u>	

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