JVC

SERVICEMANUAL

L-A55
DIRECT DRIVE
AUTO-RETURN
TURNTABLE



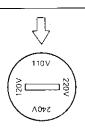
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WARNING!

When replacing the parts marked with extstyle extsty

CHECKING YOUR LINE VOLTAGE (For U.S. Military Market and Other Countries) Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located either on the set's on the chassis. Simply insert a screw driver into the voltage selector switch and turn it in either direction while pressing slightly and in such a way that desired voltage marked on the switch is positioned the arrow marked on the rear panel or the chassis. The voltage selector switch accommodates up to three turns in either direction.



No. 2475

1. Specifications

Motor section

Motor : Coreless, DC type FG servomotor

Drive system : Direct drive

Speeds : 33-1/3 and 45 rpm

Pitch control range : ±3%

Wow and flutter : Less than 0.03% (WRMS), 0.015% (WRMS)*

0.045% (DIN)

Rumble : More than 75 dB (DIN-B)
Speed detection : Integrated frequency generator

Platter : 30.8 cm diameter

Tonearm section

Type : T.H. (Tracing-Hold system, static balance)

S-shaped tubular arm

Effective length : 220 mmTracking error : $+3^{\circ}35' -0^{\circ}43'$

Overhang : 15 mm

Tracking force range 0 - 3 g (0.1 grams division, direct reading)

Weight range (including headshell) : $12.5 \sim 18.5 \text{ g}$

Cartridge section (not provided on units for U.S.A., Canada and the U.K.)

MODEL : Z-1S

Type : Moving Magnet (Cartridge body: MD-1025)

Stylus : 0.6 mil. diamond (DT-Z1S)

Optimum tracking force : 1.75 ±0.25 grams
Output : 3 mV (1kHz, 5 cm/sec)

Frequency response : 10 to 25,000 Hz

Separation : More than 25 dB (1 kHz) (with test record TRS-1)

Load resistance : 47 kilohms - 100 kilohmsCompliance : $10 \times 10^{-6} \text{ cm/dyne}$ (Dynamic)

 $: 30 \times 10^{-6} \text{ cm/dyne (Static)}$

General

Dimensions : 13.1(H) x 43.8(W) x 38(D) cm (with cover closed)

(5-5/32" x 17-1/4" x 14-31/32")

(Since the dimensions show only the design measurements, consideration is required when installing the unit in a limited space such as a rack.)

Weight : 5.5 kg (12.1 lbs.)

(without corrugated cardboard case)

2. Service Precautions 3. Features

- Be sure to place the unit on a level surface when adjusting motor rotation.
- 2. In servicing, do not use parts other than those specified.
- Be careful not to damage the motor shaft when repairing the motor unit.
- 4. When the heat sink (including X601) and the other small circuit board are removed from the motor board to permit repair of the circuit board, the transistor temperature may increase due to the lack of heat radiation.
- DC type FG servomotor
- Direct Drive tow-row stroboscope
- · Oil-damaged cueing
- Anti-skating mechanism
- All front operations.

^{*} Measured at attached encoder's output by K & K measuring method.

4. "How to Operate" (Names and Functions)



Fig. 1

1. EP adaptor

Place this adaptor onto the center spindle when you play a record with a bigger center hole such as a doughnut record.

2. Anti-skating knob

This device cancels out the centripetal force that pulls the tonearm to the center of the platter. This prevents the stylus tip from skating toward the center of the platter and at the same time eliminates any excessive stylus tip force on the inner wall of the record groove.

Use the ● marked dial when employing a spherical stylus. Use the ● marked dial when employing an elliptical stylus or a Shibata stylus.

Turn the dial to the same number as the tracking force dial.

3. Speed select button

Select a proper position (**4** 33 or **4** 45) of the speed select button in accordance with the rpm of the record.

33-1/3 rpm record (LP)								"33"
45 rpm record (EP)								"45"

4. Arm lifter button

This is used when you want the tonearm gently lifted up to lowered down. When you push it to "UP" position(—), the tonearm will be lifted up, and when you push it to "DOWN" position (__) it will be lowered down gently onto the record surface.

5. Reject button

When you stop playing the record, push the button and release it. The button returns to its original position and the tonearm lifts itself up, returns automatically to its rest and the platter stops rotatings.

6. Pitch control knob and strobo disc



Strobe pattern and stroboscope

When speed adjustment is performed, observe the strobe pattern around the periphery of the platter for 33-1/3 disc and use the stroboscope provided for 45 speed.

Turn the speed adjustment knob until the dots appear to be stationary.

Be sure to use the dot patterncorresponding to the local line frequency.

- The dots appear to move in the same direction as the platter....
 - Turntable rpm is too fast.
 - Turn the speed adjustment knob toward S (slow).
- The dots appear to move in the direction opposite to the platter....
 - Turntable rpm is too slow.
 - Turn the speed adjustment knob toward F (fast).
- The dots appear to be stationary.....
 Turntable rpm is proper.

Your new L-A55 is designed to constantly maintain the correct speed, once the fine pitch adjustment has been made despite fluctuations in the AC mains voltage and frequency (normally $\pm 0.4\%$ on average) which may cause slight changes in the strobe patterns due to lighting of the neon lamp, and speed adjustment is not required.

5. Operation of Automatic Mechanism

Change cycle mechanism:

- During playing, the notch of the main gear position relative to the turntable spindle gear is as shown in Fig.
 As the projection is away from the engagement, the main gear does not rotate even though the turntable.
- 2. As playing proceeds, the trip slide moves toward the center of the turntable following the movement of the tonearm as shown in Fig. 3.
- 3. The engagement is very easy to move as it simply rests on the lower trip. On the music section of the record groove the engagement moves so slightly that it is returned by the tip of the projection. Censequently, the turntable spindle gear does not engage with the main gear and thus does not trigger the auto-return operation.
- 4. When playing ends and the pick-up cartridge enters the lead-out groove which is spaced out, the engagement advances more then it is returned by the projection. Because of this, the engagement is pressed by the projection as shown in Fig. 4, causing the main gear to turn and engage with the turntable spindle gear. Thus the change cycle is started.
- 5. During the return operation the engagement and lower trip which have moved are returned to their original position by the reject lever coming into contact with the bottom of the lower trip. At this moment the switch lever operates with the help of the main gear cam, switching off the power just before the rotation should stop.

This completes the automatic cycle.

Tonearm lift and return mechanism:

- When the main gear starts to rotate at the end of playing, the return lever rotates under the action of the main gear cam to press the elevator cam. The upward movement of the elevator cam is directly converted into movement of the elevator, lifting up the tonearm. (Fig. 5)
- 2. The tonearm is returned by the arm lever the end of which presses it as the main gear rotates. (Fig. 6)

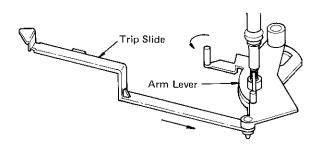


Fig. 6

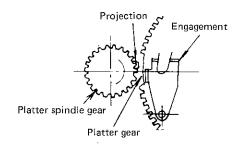
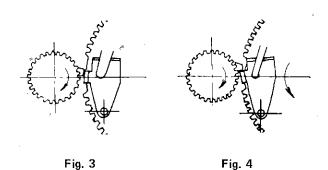


Fig. 2



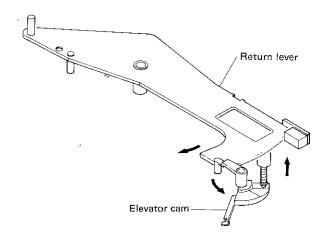


Fig. 5

6. Block Diagrams

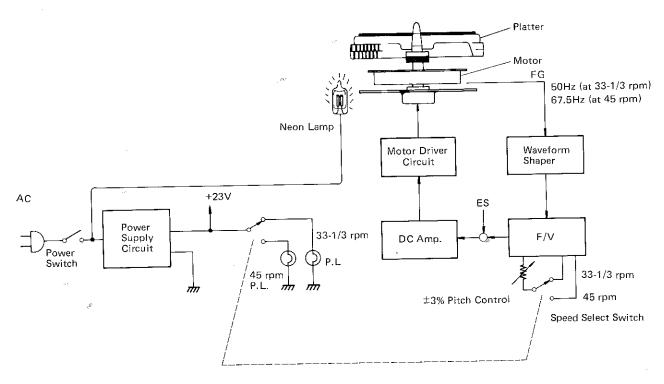


Fig. 7

7. Mounting Cartridge

- Removal and mounting of the headshell (Fig. 8)

 Turn the connector nut in the direction of "A" to remove the headshell from the tonearm. Turn it in the direction of "B" for mounting the headshell.
- Mounting cartridge (Fig. 9)
 - 1. Remove the 2 screws securing the cartridge on the headshell.
 - 2. Install your cartridge onto the headshell provided or onto a headshell of your selection.
 - 3. The four headshell lead wires are colour-coded as follows, connect them correctly:

- 4. Mount the cartridge properly onto the headshell and leave the set screws slightly loosened, then, after completing the "overhang adjustment" (see P. 6) tighten them firmly.
- 5. After each cartridge replacement, be sure to perform "tracking force" (see P. 7) and "anti-skating" (see P. 6) adjustments.

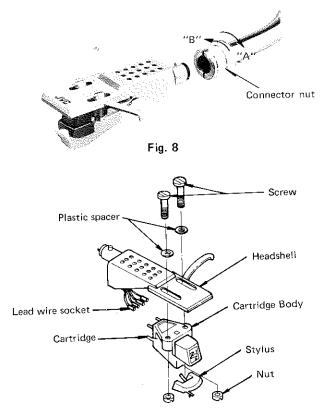


Fig. 9

8. Adjustment Procedures

Tonearm Section

Adjustment

The following adjustments should be performed only when replacing a cartridge or a headshell.

Otherwise, no adjustment is required.

Note: If necessary to replace a cartridge, usage of that headshell exclusive to this unit is recommended.

8-(1) Overhang Adjustment

To obtain optimum overhang, when mounting the cartridge, first align the cartridge's longitudinal axis to that of the headshell and position the cartridge so that the distance between the headshell's end face and the stylus tip equals 48 mm as shown in Fig. 10.

Be sure to tighten the set screw after the adjustment. Errors within 1 mm are negligible from a practical point of view.

8-(2) Anti-skating Adjustment

Adjust the anti-skating force according to the cartridge used. Turn the anti-skating knob dial to the same number on the tracking force dial.

Use the ● marked dial when employing a spherical stylus. Use the ● marked dial for an elliptical or a Shibata stylus. Set the "1.75" of the ● marked dial to the index line since the L-A55 is provided with a spherical stylus and the tracking force has been adjusted to 1.75 g. (Fig. 11)

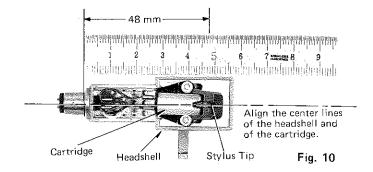
8-(3) Tonearm Lifter Height Adjustment

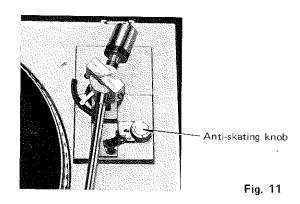
Adjust the height of tonearm lifter with the adjustment screw so that the distance between the stylus tip and the surface of record is about 6 mm when the stylus is elevated. Turn the height adjustment screw clockwise to lower, and counterclockwise to raise the tonearm lifter level. (Fig. 12)

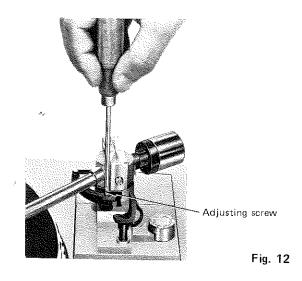
8-(4) Headshell mounting Angle Adjustment (Fig. 13)

When the headshell is locked into the end of the tonearm, the stylus in some cartridges may still not be tangential (90°) to the platter. If such is the case, loosen the locking screws on the lower side of the tonearm using a small screwdriver (as shown) and move the headshell to adjust the stylus at a right angle (90°) to the platter. Measurement by eye is sufficient.

After adjustment be sure to tighten the locking screws firmly.







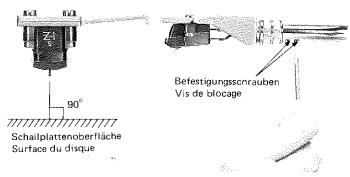
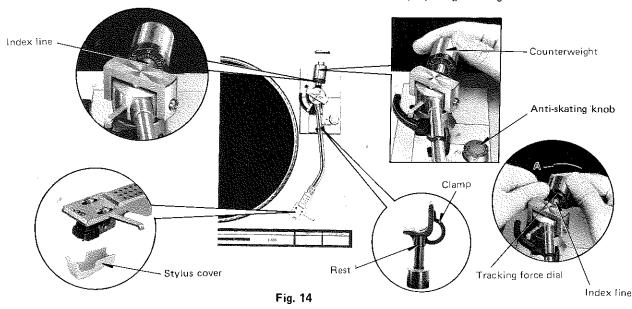


Fig. 13

8-(5) Tracking Force Adjustment

- 1. Set the anti-skating knob to the "0" mark on the dial.
- 2. Place an unwarped disc onto the platter.
- 3. Remove the stylus cover from the stylus.
- 4. Release the tonearm clamp.
- 5. Turn the counterweight until the tonearm is balanced.
- 6. Stop turning the counterweight when the stylus tip is almost touching the disc surface.
- 7. Return the tonearm to the rest and clamp it.
- 8. Hold the counterweight at the adjusted position and turn the tracking force dial until the "0" mark is aligned with the index line on the tonearm weight shaft.

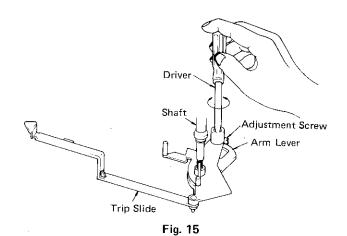
Turn the counterweight in the (A) direction until the "1.75" mark on the dial is aligned with the index line for the model preparing cartridge Z-1S.



8-(6) Auto-return (Lead-out) Adjustment

When the Tonearm has been replaced or if auto-return functions early or late, adjust as shown in Fig. 15.

- When change cycle starts too late, turn the screw counterclockwise with a screwdriver.
- When change cycle starts too early, turn the screw clockwise.



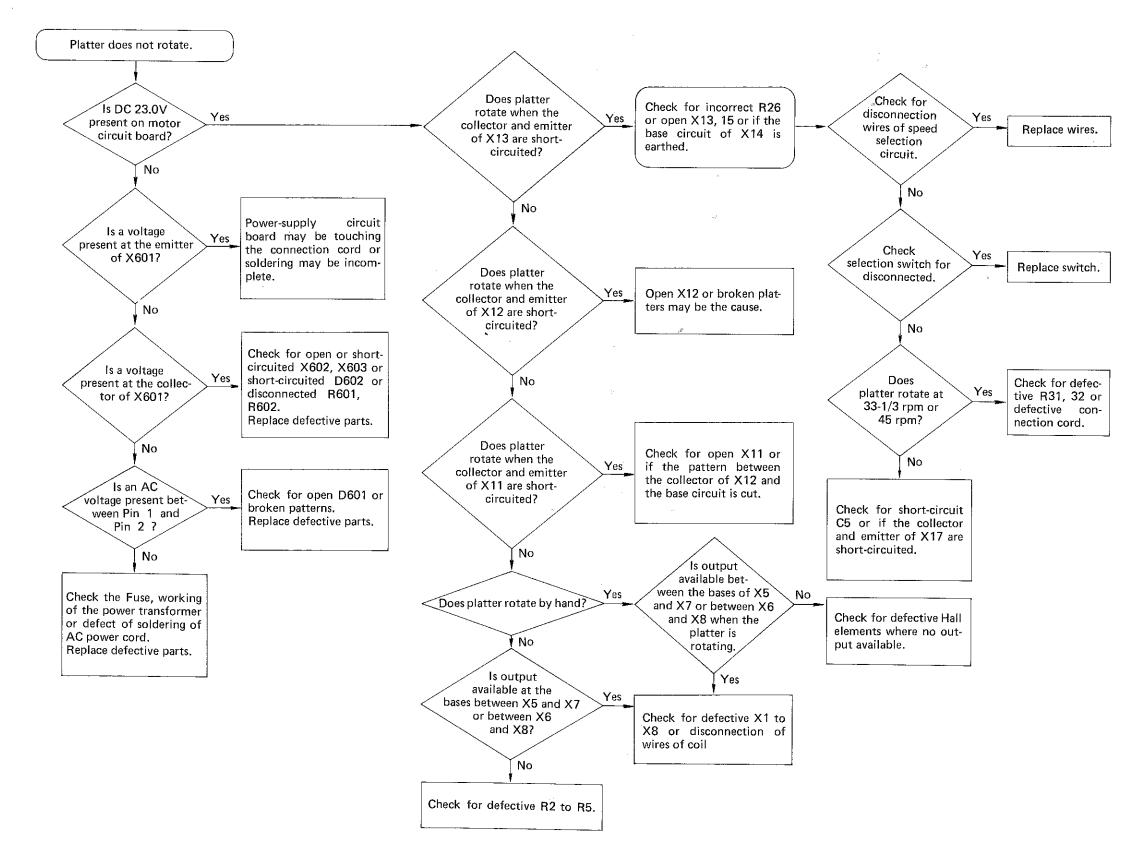
Servomotor Control Section

8-(7) Speed Adjustment

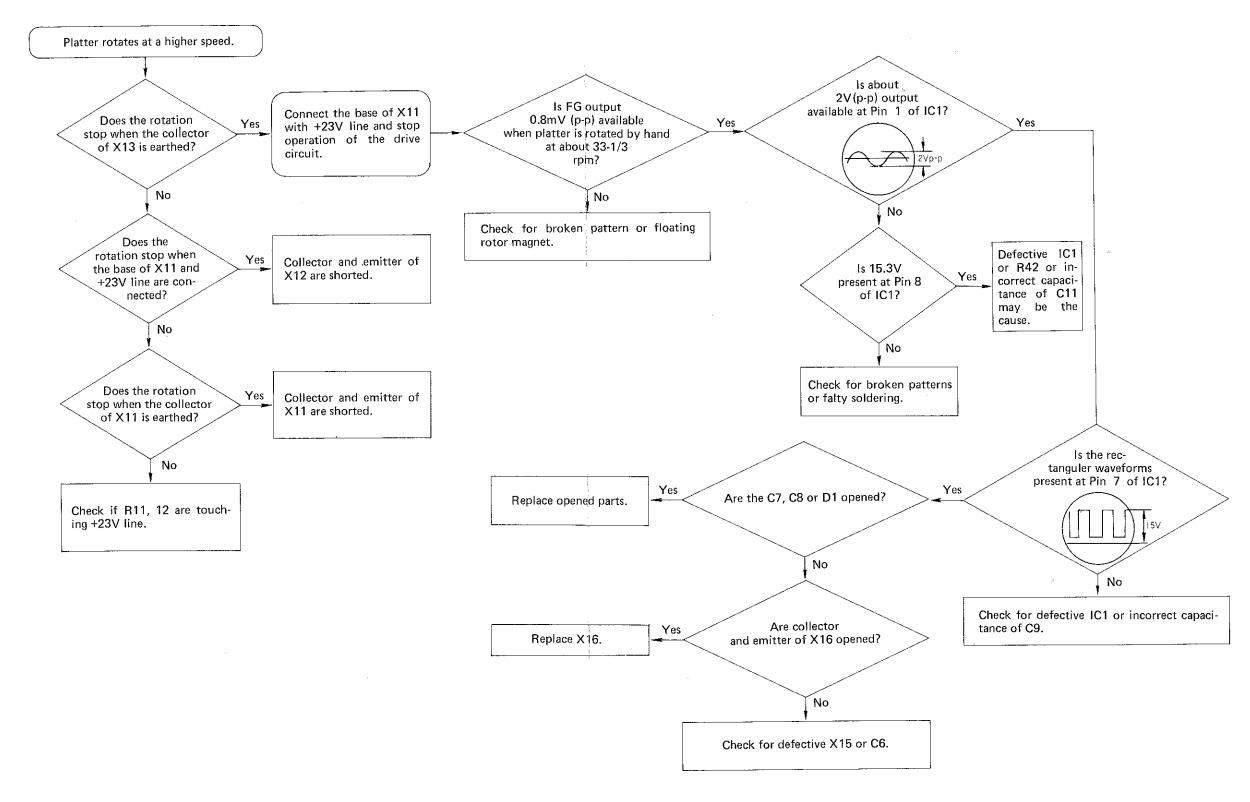
- 1. Set the speed select switch to the 33-1/3 position and confirm that the 33-1/3 pilot lamp is lighting.
- 2. Turn the PITCH CONTROL knob to the center position $(10k\Omega/2)$.
- 3. Adjust VR1 (4.7k Ω) (see P. 15) so that the strobe pattern around the platter appear to be stationary.
- Confirm that the strobe pattern appears to move at the same speed (approx.) with the PICTH CONTROL knob turned to the MAX and MIN positions.
- 5. In this condition, if the speed select switch is set to 45 position with the PITCH CONTROL knob set to the center position, the strobe pattern will appear to be stationary. (Speed adjustment for 33-1/3 rotation speed simultaneously makes the necessary adjustment for 45.)

9. Trouble Shooting

9-(1) Chart 1. "Platter does not rotate"



9-(2) Chart 2. "Platter rotates at a high speed"

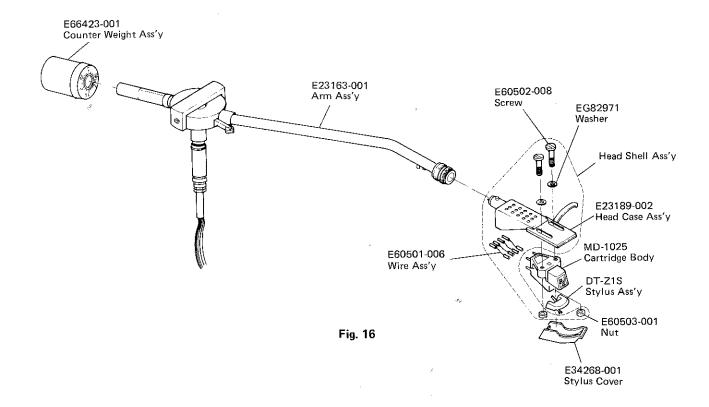


10. Lubrication

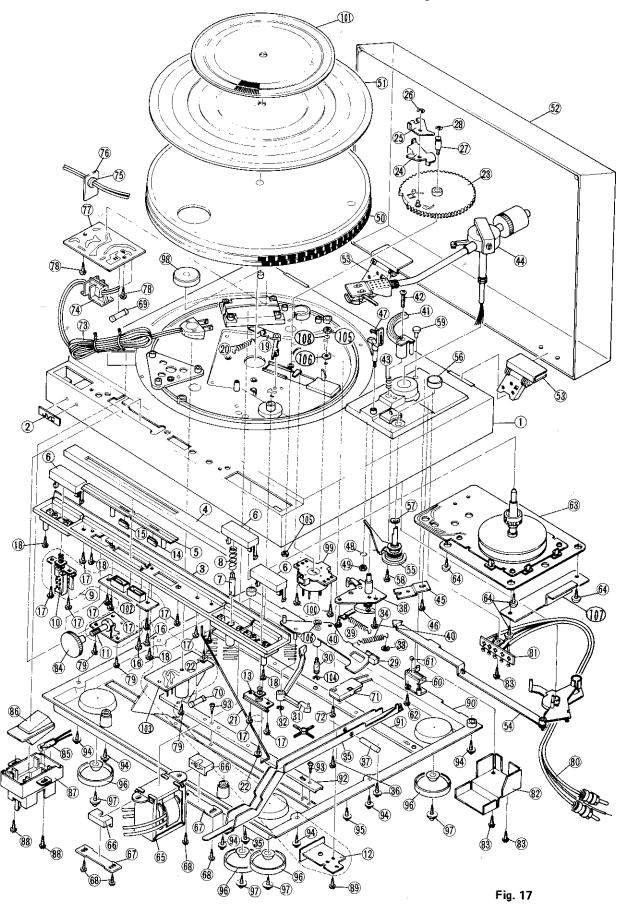
The direct drive motor employed in this unit does not require the lubrication.

11. Exploded Views and Parts List

11-(1) Tonearm Assembly



11-(2) Cabinet and Mechanism Assembly and Parts List



Parts List

Item No.	Part Number	Description	Q'ty	Item No.	Part Number	Description	Q'ty
1 2 3 4 5	E10390-001 QXM2242-002 E23146-001 E300266-001 E300267-001	Cabinet Mark (JVC) Front Panel Sub Panel C. Panel	1 1 1 1	56 57 58 59 60	E300272-001 E49602-002 E65922-002 See page 13 E66373-001	A.S. Knob Wave Washer T. Screw Mask Cap Ball Holder	1 1 1 1
6 7 8 9 10	E300268-001 E66350-001 E66351-001 See page 13 QSP0219-020	Knob Slider Spring C.Board Ass'y* Push SW	3 1 1 1	61 62 63 64 65	G41505-1 E65921-002 MC941B E65922-005 See page 13	Steel Ball T. Screw Motor T. Screw P. Transformer	1 1 1 4 1
11 12 13 14 15	OVF3A7B-014 E65674-002 E03820-002 E66352-001 E66352-002	Heat Sink Push SW. Indicator Indicator	1 1 1 1 1	66 67 68 69 70	E61824-001 E65751-001 E65921-003 See page 13	Cushion Trans Plate T. Screw Fuse Tuse	2 2 4 1
16 17 18 19 20	SBSB2606Z E65921-001 E65922-002 E66353-001 E49651-002	T. Screw T. Screw T. Screw Reject Lever Reject Spring	2 10 5 1	71 72 73 74 75	" E65921-005 See page 13	Micro SW. T. Screw Power Cord Cord Clamp Cord Stopper	1 1 1 1 1
21 22 23 24 25	E66355-001 E65922-002 E21656-001 E49626-001 E49627-001	Reject Rod T. Screw Gear L. Trip Pawl Eng. Pawl	1 2 1 1	76 77 78 79 80	" E65921-002 E65921-002 E03724-002	C.S. Plate P.C.B. Ass'y T. Screw T. Screw Signal Cord	1 1 2 3
26 27 28 29 30	REE2000X E66633-001 REE5000 E49613-010 E66634-001	E. Ring Shaft E Ring R. Lever Ass'y Stud	1 1 1 1	81 82 83 84 85	OML0002-051 E66374-001 E65921-002 E61713-002 See page 13	Lug Strip Ass'y Shield Cover T. Screw VR Knob Neon Lamp	1 1 3 1
31 32 33 34 35	E65249-001 REE3000X G4942-4 E65251-001 E300269-002	SW. Lever E. Ring Speed Nut Spring C. Lever Ass'y	1 1 1 1	86 87 88 89 90	E66406-001 E300361-001 E65921-002 SBSB3008Z E10389-001	Prism Lamp Holder T. Screw T. Screw Bottom Board	1 1 2 1
36 37 38 39 40	E65922-002 E66359-001 E66360-001 E49596-001 E65921-002	T. Screw Cueing Shaft C. Base Ass'y Spring T. Screw	2 1 1 1 3	91 92 93 94 95	E300249-001 E300249-002 E65921-002 E65922-004 E65922-006	Frame Frame T. Screw T. Screw T. Screw	1 1 5 9
41 42 43 44 45	E66365-001 SSSP3016M E49649-001 See page 13 E65289-001	Elevator Ass'y Screw Spring Tonearm Ass'y Stopper	1 1 1 1	96 97 98 99 100	See page 13 E65923-001 E66329-001 See page 13 E65921-002	Foot Ass'y T. Screw E.P Adaptor V. Selector T. Screw	4 4 1 1 2
46 47 48 49 50	E65921-002 E60982-002 WLS4000N NTB4000BS E23113-001	T. Screw Arm Rest Ass'y Washer Nut Platter	1 1 1 1	101 102 103 104 105	E61136-002 REE3000X NTB3000	Strobo Plate LED C.B. Ass'y * Secondary C.B. Ass'y * E. Ring Nut	1 1 1 1 2
51 52 53 54 55	See page 13 E10299-001 EG30133-001 E300271-001 E66369-001	Platter Cover D. Cover Ass'y Hinge Ass'y Arm Lever Ass'y A.S. Lever Ass'y	1 1 2 1	106 107 108	Q03091-105 E66655-002 WLS3000	Washer Bracket Washer	2 1 1

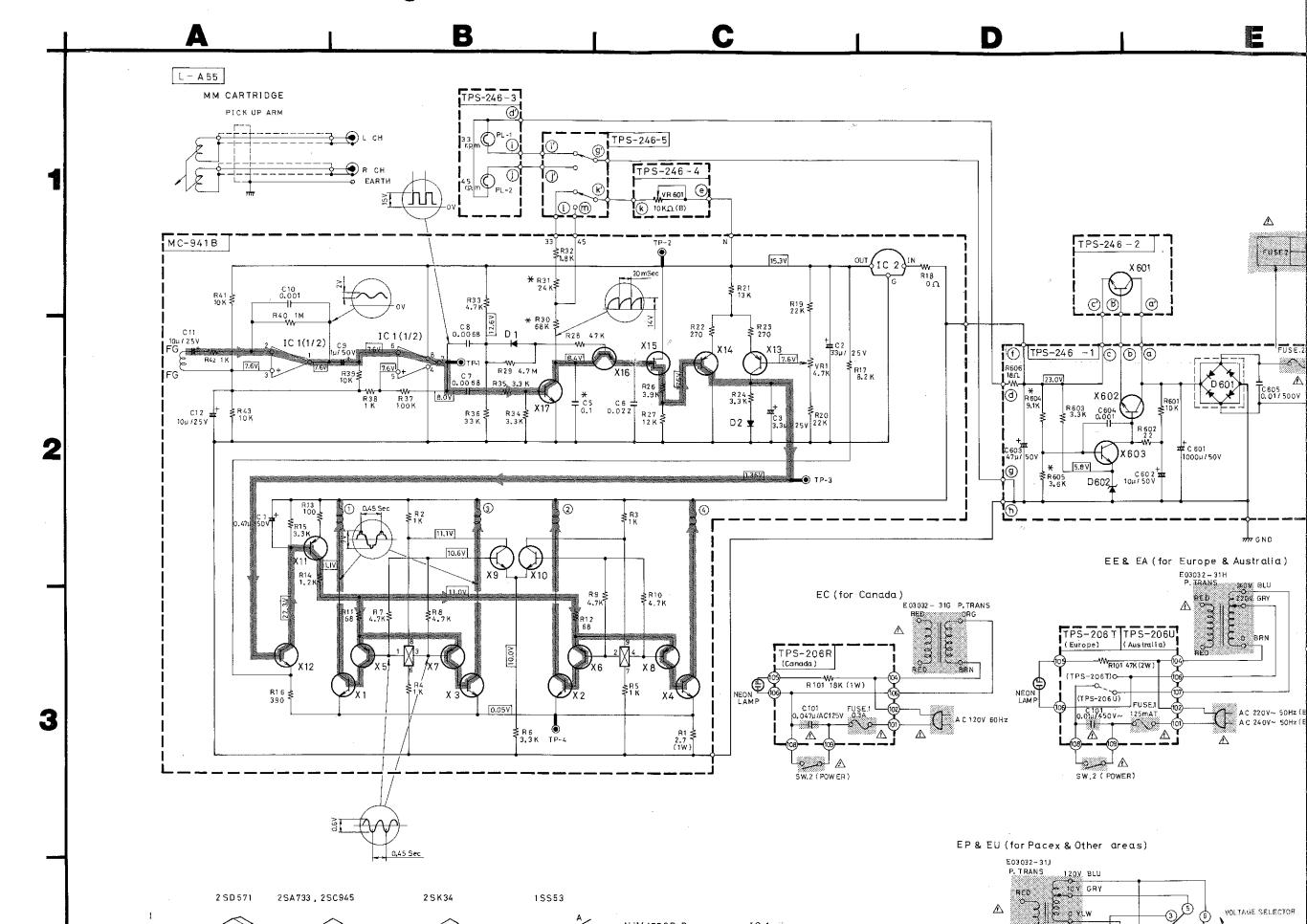
11-(3) Parts List with Specified number for Designated Areas

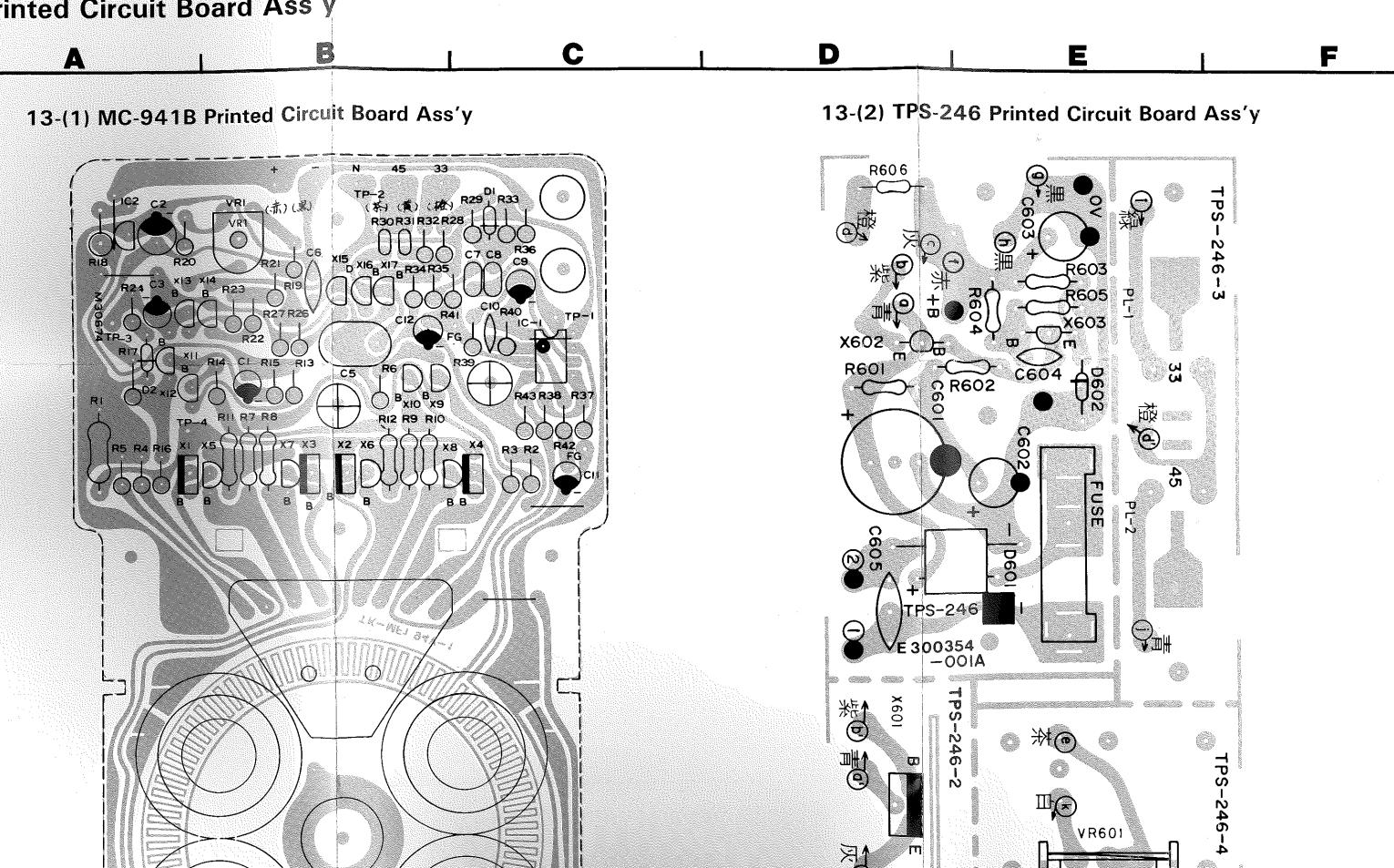
Description	U.S.A.	Canada	Europe	u.ĸ.	Australia	U.S. Military Market and other countries	Item No.
TONEARM ASS'Y	ARM-532	ARM-532	MP-303S	ARM-532	MP-303S	MP-303S	44
PLATTER COVER	E22719-002	E22719-002	E22719-001	E22719-001	E22719-001	E22719-001	51
POWER TRANSFORMER 🏠	E03032-31G	E03032-31G	E03032-31H	E03032-31HBS	E03032-31H	E03032-31J	65
FUSE 🗘	QMF61U1-R30	QMF61U1-R30	QMF51A2-R125	QMF51A2-R125BS	QMF51A2-R125	QMF61U1-R30	69
FUSE 🗘	QMF61U1-R50	QMF61U1-R50	QMF51A2-R50	QMF51A2-R50	QMF51A2-R50	QMF61U1-R50	70
MICRO SWITCH 🛕	S9-031M	S9-031M	S9-033M	S9-033MBS	S9-033M	S9-031M	71
POWER CORD 🛆	QMP1200-200	QMP1200-200	QMP3900-200	QMP9017-008BS	QMP2560-244	QMP7600-250	73
CORD CLAMP			A37897	A37897	A37897	A37897	74
CORD STOPPER	QHS3876-162	QHS3876-162					75
C.S. PLATE	E65465-001	E65465-001					76
P.C. BOARD ASS'Y	TPS-206Q	TPS-206R	TPS-206T	TPS-206VBS	TPS-206U	TPS-206S	- 77
C. BOARD ASS'Y 📤	TPS-246A	TPS-246A	TPS-246B	TPS-246BBS	TPS-246B	TP\$-246A	9
FOOT ASS'Y	E35857-003	E35857-003	E35857-005	E35857-005	E35857-005	E35857-005	96
VOLTAGE SELECTOR A						QSR0085-001	99
MASK CAP	E65395-001	E65395-001					59
NEON LAMP	QLN3104-101	QLN3104-101	QLN3104-101	QLN3104-101	QLN3104-101	QLN3104-102	85

NOTE: A SAFETY PARTS

hematic Diagram F B TPS-246-3 RTRIDGE TPS-246-5 TPS-246-4 (k) 10 KΩ (B) TPS-246 - 2 EJ EG EU.EP EE,EA,EBS 20 mSec R19 ≱ 22 K ₹ 0.0068 A921 D.1 EJ(for USA) IC 1 (1/2) R28 47K IC 1(1/2) ① TPS-246 -1 © 6 @ R29 4.7 M C7 0.0068 R35, 3.3 K R38 1 K ± C5 C6 ± R27 ₹ 12 K X602 R34.≹ 3.3K TPS-206Q(USA) D2 🛨 € X 603 R101 18K(1W) 2000 µ / 50V C101 FUSE 0.047u/AC125V 0.3A FUSE 1 ₹R605 3.6K D602 SW.2 (POWER) 10.6V EE & EA (for Europe & Australia) E03032 -- 31H P. TRANS EBS (for England) ≹R10 ₹4.7K EC (for Canada) E03032-31HBS P.TRANS E 03 032 - 31G P. TRANS TPS-206T TPS-206U TPS-206R (Canada) TPS-206 VBS R101 18K (1W) R101 47K (2W) (TPS-206U) C101 FUSE.1 0.047µ/AC125V 0.3A C 101 0.03µ/450V~ 125mAT AC 220V~ 50Hz (EE) AC 240V~ 50Hz (EA) 0.057 A C 120V 60Hz C101 FUSE.1 0.01µ/450V~ 125 mAT AC 240V 50Hz Δ SW.2 (POWER) SW.2 (POWER) EP & EU (for Pacex & Other areas) E03032-31J P. TRANS 571 2SA733, 2SC945 2 S K 34 18853 O DED VOLTAGE SELECTOR NJM 4558 D-D IC 1 1ZOV ORG DIAGRAM 110V TPS-2065 NJM 78L15A IC 2 2SD571(K1,K2,L1,L2) X1~X4 2SA733(P,Q) X5~X8 Warning! 2SA733(P,K) X11, X13, X14, X16 X 15 $X5 \sim X14, X16, X17$

12. L-A55 Schematic Diagram





13-(3) MC-941B Parts List

Transistors

No.	Parts Number	Ra	ting	Description	Maker
_		Pc	fT		
X1	2SD571 (K1, K2, L1, L2)	800mW	110MHz	Silicon	NEC
X2	" "	n 55	, ,	"	
X3	n n	"	"	,, ,,	" "
X4	<i>"</i> "	"	,,	"	"
X5	2SA733 (P, Q)	250mW	180MHz	y .	, ,
X6	n n	"	# 100WIF12	n	, "
X7	n n	"	,,	 #	1
X8	n n	"	"	"	" · "
X9	2SC945 (P, K)	250mW	250MHz	"	,,,
X10	n "	"	"	"	
X11	2SA733 (P, K)	250mW	180MHz	"	"
X12	2SC945 (P, K)	250mW	250MHz	,,	" "
X13	2SA733 (P, K)	250mW	180MHz		"
X14	11 11	"	1001W112	n	" "
X15	2SK34C	150mW	100MHz	"	•
X16	2SA733 (P, K)	250mW	180MHz	"	Mitsubishi
X17	2SC945 (P, K)	250mW	250MHz	ii	NEC "

Integrated Circuits

No.	Parts Number	Rating	Description	Maker
≺-IC1 IC2	NJM4558D-D NJM78L15A		IC "	Shin Nihon Musen

Diodes

No.	Parts Number	Rating	Description	Maker
D1 D2	1SS53		Silicon "	N.E.C.

Capacitors

No.	Parts Number	Ra	nting	Description		
C1 C2 C3 C5 C6 C7 C8 C9 C10	QET41HR-105 QET41ER-336 QET41ER-335 AWS104J-50 QCF11HP-223 QFM41HK-682 " QET41HR-105 QCY41HK-102 QET41ER-106	1μF 33μF 3.3μF 0.1μF 0.022μF 6800pF " 1μF 1000pF 10μF	DC50V DC25V " DC50V "	Electrolytic " Mylar Ceramic Mylar Electrolytic Ceramic Electrolytic Ceramic		
C12	n	,,	"	"		

Resistors

No.	Parts Number	Ra	iting		Description
R1	QRX016J-2R7	2.7Ω	1W	Metalized Film	
R2	QRD143J-102	1kΩ	1/4W	Carbon	
R3	n n	n n	n A	n	
R4	ll ll	"	n	"	
R5	lt .	n s	, n	n n	
R6	QRD143J-332	3.3 k Ω	"	"	
R7	QRD141J-472	$4.7 \mathrm{k}\Omega$	ir .	n n	
R8	н	и	n.	n	
R9	n n	n	η	n	
R10	≈ 11	"	"	"	
R11	QRD141J-680	68Ω	n	"	
R12	n n	n n	11	n .	
R13	QRD143J-101	100Ω	n	"	
R14	QRD143J-122	1.2 k Ω	"	n n	
R15	QRD143J-332	3.3k Ω	"	n	
R16	QRD143J-391	390Ω	θ	n	48
R17	QRD143J-822	8.2k Ω	"	* 11	
R18	QRD141J-0R0	Ω 0	n	n n	
R19	QRD143J-223	22 kΩ	n	"	
R20	<i>y</i> 11	n	n	u u	
R21	QRD143J-133	13kΩ	"	"	
R22	QRD143J-271	270Ω	"	n n	
R23	"	"	"	n	
R24	QRD143J-332	3.3 k Ω	"	n n	
R26	QRD143J-392	3.9kΩ	"	n .	
R27	ORD143J-123	$12k\Omega$	"	"	
R28	QRD143J-473	47kΩ	n	n .	
R29	QRD143J-475	4.7ΜΩ	n	"	
R30	RE35YQ-68KF	68kΩ	n	Metalized Film	
R31	RE35YQ-24KF	24kΩ	"	n n	
R32	QRD143J-182	1.8kΩ	tt .	Carbon	
R33	QRD143J-472	4.7kΩ	"	"	
R34	QRD143J-332	3.3 k Ω	"	# ×2	
R35	"	n	. "	"	
R36	QRD143J-333	33kΩ	n n	n .	
R37	ORD143J-104	100kΩ	n	"	
R38	QRD143J-102	1kΩ	n	"	
R39	QRD143J-103	10kΩ	"	n "	
R40	QRD143J-105	1ΜΩ	n	n	
R41	QRD143J-103	10kΩ	n	n	
R42	QRD143J-102	1kΩ	"	"	
R43	QRD143J-103	10kΩ	u	n	•
VR1	RVAV413-472	4.7kΩ		Variable	
VILI	110/104/2				

13-(4) TPS-246 Parts List

Transistors

Item No.	Parts Number	Ra	ting	Description	Maker	
		Pc	fT			
X601 X602	2SD325 (D, E) 2SC945 (P, Q)	10W 250mW	8MHz 250MHz	Silicon	NEC "	
X603	2SC945 (P, Q)	250mW _{.∞}	250MHz	"	"	

Diodes

Item No.	Parts Number	Rating	Description	Maker
D601	ESAB03-02A		Silicon	Fuji Denki
D602	RD5.6EB3		Zener	N.E.C

Capacitors

Item No.	Parts Number	Ra	ating	Description	
C601	QET51HR-108E	1000μF	DC50V	Electrolytic	
C602	QET51HR-106	10μF	- <i>n</i>	n .	
C603	QET51HR-476	47μF	n	"	
C604	QET21HP-102	1000pF	n	Ceramic	
C605	QET22HP-103	0.01μF	DC500V	n	

Resistors

Item No.	Parts Number	Rating		Description	
R601	QRD148J-103S	10k Ω	1/4W	Carbon	
R602	QRD149J-220S	22Ω	"	Nonflammable	
R603	QRD148J-332S	3.3 k Ω	"	Carbon	
R604	QRV144F-9101	9.1k Ω	n	Metalized Film	
R605	QRV144F-3601	3.6 k Ω	n	"	
R606	QRD149J-180S	18Ω	n	Nonflammable	
VR601	QVF3A7B-014	10k Ω	n	Variable	

Others

Item No.	Parts Number	Rating	Description	
	E65674-002 QSP0219-020 QLP3201-008 E66313-002 E66313-003 E66452-001 E41541-21		Heat Sink Push Switch Lamp Lamp Cap " Lamp Cover Bushing	

Others

No.	Description	U.S.A.	Canada	Europe	U.K.	Australia	U.S. Military Market and Other Countries
	Fuse clip 🛕	E45524-002	E45524-002	E48965-002	E48965-002	E48965-002	E45524-002

13-(5) TPS-206 Printed Circuit Board Ass'y and Parts List

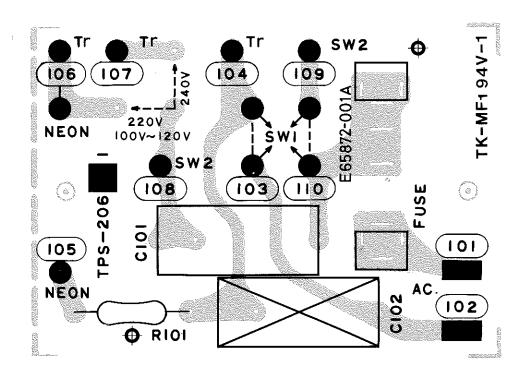


Fig. 18

No.	Description	U.S.A.	Canada	Europe	U. K.	Australia	U.S. Military Market and Other Countries
	Capacitor 🗘 Fuse Clip 🗘 Resistor	QFH72BM-473M E45524-002 QRG017J-183S	QFA72BM-473 E45524-002 QRG017J-183S	QFZ9007-103 E48965-002 QRG027J-473	OFZ9007-103BS E48965-002 QRG027J-473	QFZ9007-103 E48965-002 QRG027J-473	QFH538M-103M E45524-002 QRG017J-183S

14. Connection Diagram of TPS-246

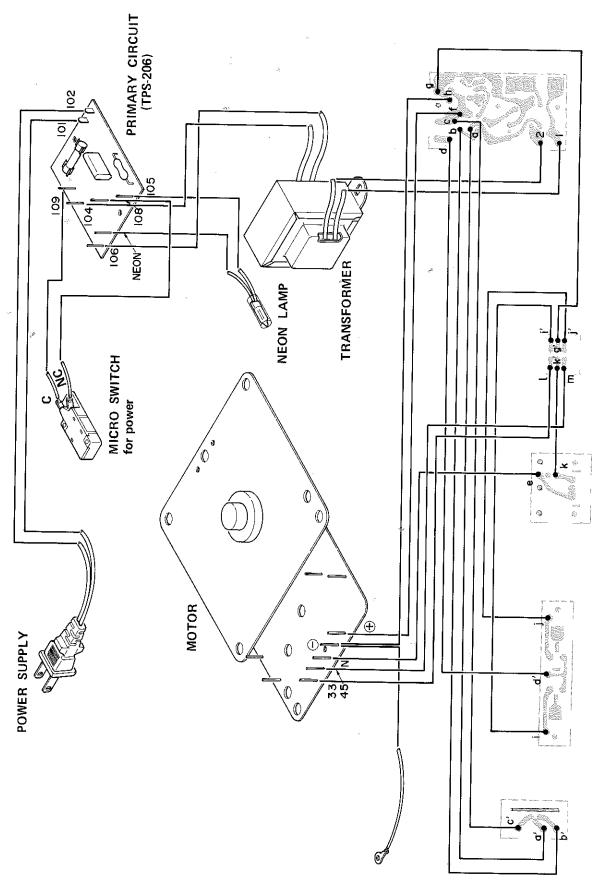
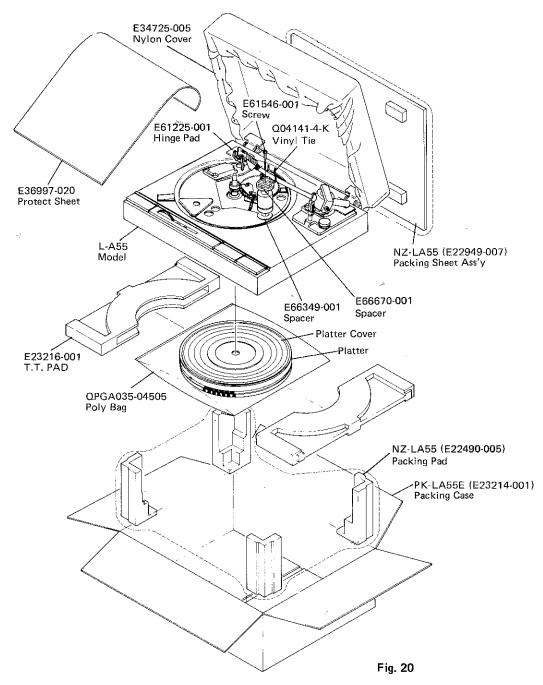


Fig. 19

15. Packing Materials and Part Number



16. Accessories List

Description	U.S.A.	Canada	Europe	U.K.	Australia	U.S. Military Market and other countries
INSTRUCTION BOOK	E30580-745A	E30580-745A	E30580-745A	E30580-754ABS	E30580-745A	E30580-745A
INSTRUCTION BOOK		E30580-746A	E30580-746A			
WARRANTY CARD	BT20032B	BT20025B		BT20013B	BT20029B	BT20032(P)
SERVICE PROCEDURE	BT20042					BT20042(P)
DO IT BETTER	ВТ20042					BT20042(P)
ENVELOPE	E41202-2	E41202-2	E41202-2	E41202-2	E41202-2	E41202-2
EP ADAPTER	E66329-001	E66329-001	E66329-001	E66329-001	E66329-001	E66329-001
SIEMENS PLUG						E04056