

Service Manual

Direct Drive
Automatic Turntable

Turntable System

SL-DD2



Color

(S) ... Silver Type
(K) ... Black Type

Color	Areas
(S) (K)	[E] Switzerland and Scandinavia.
(S) (K)	[EK]... United Kingdom.
(S) (K)	[XL]... Australia.
(S) (K)	[EG] .. F.R. Germany.
(S) (K)	[EB]... Belgium.
(S) (K)	[EH] .. Holland.
(S) (K)	[EF]... France.
(S) (K)	[Ei] Italy.
(S) (K)	[EC]... Czechoslovakia.
(S) (K)	[XA]... Southeast Asia, Oceania, Africa, Middle Near East and Central South America.



is the standard mark for plug-in-connector type.

Products carrying this mark are interchangeable and adaptable among each other.

Please use this manual together with the service manual for model No. SL-DD2 [M], Order No. HAD85022426C1.

SPECIFICATIONS

■ Turntable section

Type:	Direct drive Automatic turntable Auto return Auto stop
Drive method:	Direct drive
Motor:	Brushless DC motor
Turntable platter:	Aluminum die-cast Diameter 31.2 cm
Turntable speeds:	33-1/3 rpm and 45 rpm
Wow and flutter:	0.012% WRMS* 0.025% WRMS (JIS C5521) ±0.035% peak (IEC 98A Weighted)
Rumble:	-56 dB (IEC 98A Unweighted) -78 dB (IEC 98A Weighted)

*This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Rumble:
-56 dB (IEC 98A Unweighted)
-78 dB (IEC 98A Weighted)

■ Tonearm section

Type:	Statically-balanced straight tonearm Plug-in connector cartridge system
Effective length:	230 mm
Overhang:	15 mm
Tracking error angle:	Within 2°32' at the outer groove of 30 cm record Within 0°32' at the inner groove of 30 cm record
Effective mass:	13.5 g (including cartridge)
Stylus pressure:	1.25 g (Fixed)
Applicable cartridge weight:	6 g

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ Cartridge section

Model No.:	EPC-P30S
Type:	Moving magnet stereo cartridge
Magnetic circuit:	All laminated core
Frequency response:	10 Hz~35 kHz
Output voltage:	2.5 mV at 1 kHz 5 cm/s. zero to peak lateral velocity (7 mV at 1 kHz, 10 cm/s. zero to peak 45° velocity [DIN 45 500])
Channel separation:	22 dB at 1 kHz
Channel balance:	Within 2 dB at 1 kHz
Recommended load impedance:	47 kΩ~100 kΩ
Compliance (dynamic):	12×10^{-6} cm/dyne at 100 Hz
Stylus pressure range:	1.25 ± 0.25 g (12.5 ± 2.5 mN)
Weight:	6 g (cartridge only)
Replacement stylus:	EPS-30CS

■ General

Power supply:	For Continental Europe: AC 220V, 50Hz
	For United Kingdom and Australia: AC 240V, 50Hz
	For others: ~110~127/220~240V, 50/60Hz
	4W
Power consumption:	$43 \times 10 \times 37.5$ cm
Dimensions: (W×H×D):	Maximum height when top (dust cover) is open. $43 \times 37 \times 41$ cm
Weight:	4.5 kg

Specifications are subject to change without notice for further improvement.

TECHNISCHE DATEN

■ Plattenspieler

Typ:	Direktantrieb
	Automatischer Plattenspieler
Antrieb:	Rückführautomatik
Motor:	Stopautomatik
Plattenteller:	Direktantrieb
Plattenteller-Drehzahlen:	Kollektorloser Gleichstrommotor
Gleichlaufschwankungen:	Aluminium-Spritzguß
	Durchmesser 31,2 cm
	33-1/3 und 45 U/min
	0,012% WRMS*
	0,025% WRMS (JIS C5521)
	± 0,035% Spitze (IEC 98A bewertet)
Rumpeln:	–56 dB (IEC 98A unbewertet)
	–78 dB (IEC 98A bewertet)

■ Tonarm

Typ:	Statisch balancierter, gerador Tonarm
Effektive Länge:	Tonabnehmersystem vom Einstech-Typ
Überhang:	230 mm
Spurfehlwinkel:	15 mm
	2°32' bei der Einlauftrille einer 30 cm-Platte
	0°32' bei der Auslauftrille einer 30 cm-Platte
Effektive Masse:	13,5 g (einschließlich Tonabnehmer)
Auflagekraft- Einstellbereich:	1,25 g
Zulässiger Ton- abnehmergewicht:	6 g

■ Tonabnehmer

Typ:	Beweglicher Magnet-Stereo-Tonabnehmer
Magnetkreis:	Genzlamellenkern
Frequenzgang:	10 Hz bis 35 kHz
Ausgangsspannung:	2,5 mV bei 1 kHz
Kanaltrennung:	5 cm/s. Null-zu-Spitze, lateral
Kanalabweichung:	[7 mV bei 1 kHz 10 cm/s. Null-zu-Spitze, 45° (DIN 45 500)]
Empfohlene Endimpedanz:	22 dB bei 1 kHz
Nachgiebigkeit (dynamisch):	Innerhalb 2 dB bei 1 kHz
Auflagekraft-Einstellbereich:	47 kΩ ~ 100 kΩ
Gewicht:	12 × 10 ⁻⁶ cm/dyn bei 100 Hz
Ersatznadel:	1,25 ± 0,25 g (12,5 ± 2,5 mN)

Änderungen der technischen Daten vorbehalten.

Die angegebenen Gewichts- und Abmessungsdaten sind ungefähre Werte.

■ Allgemeine Daten

Stromversorgung:	~220V, 50 Hz
Leistungsaufnahme:	4 W
Abmessungen: (B × H × T):	$43 \times 10 \times 37,5$ cm
	Maximale Höhe bei geöffnetem Oberteil (Staubabdeckung):
	$43 \times 37 \times 41$ cm

Gewicht:

Die technischen Daten können infolge von Verbesserungen ohne Ankündigung geändert werden.

CARACTERISTIQUES

■ Platine de lecture

Type:	Entraînement direct Platine automatique
Caractéristiques:	Retour automatique Arrêt automatique
Système d'entraînement:	Entraînement direct
Moteur:	Moteur C.C. sans balai
Plateau de lecture:	En aluminium moulé sous pression Diamètre 31,2 cm
Vitesses de rotation:	33-1/3 et 45 t/p.m
Pleurage et scintillement:	0,012% de valeur efficace* 0,025% de valeur efficace (JIS C5521) ±0,035% de crête (IEC 98A Pondéré)

*Ce régime nominal se rapporte à l'ensemble du tourne-disque sauf, excluant les effets du disque, de la cellule pick-up ou du bras de lecture, mais comprenant le plateau. Mesuré par l'obtention d'un signal provenant du générateur de fréquences incorporé de l'ensemble du moteur.

Ronflement:	– 56 dB (IEC 98A Non pondéré) – 78 dB (IEC 98A Pondéré)
-------------	--

■ Bras de lecture

Type:	Bras de lecture rectiligne statiquement équilibré. Système de cellule de lecture à connecteur enfichable.
Longueur effective:	230 mm
Porte-à-faux:	15 mm
Angle d'erreur de piste:	En deçà de 2°32' au sillon extérieur d'un disque de 30 cm En deçà de 0°32' au sillon intérieur d'un disque de 30 cm

Masse réelle:	13,5 g (y compris la cellule pick-up)
Force verticale d'appui:	1,25 g
Poids des cellules pick-up utilisables:	6 g

■ Cellule pick-up

Type:	Cellule pick-up stéréo à aimant mobile
Circuit magnétique:	Noyau entièrement feuilleté
Réponse en fréquence:	10 Hz à 35 kHz
Tension de sortie:	2,5 mV à 1 kHz; 5 cm/s., zéro à vitesse latérale de crête (7 mV à 1 kHz, 10 cm/s., zéro à vitesse 45° de crête [DIN 45 500])
Séparation des canaux:	22 dB à 1 kHz
Équilibrage des canaux:	En deçà de 2 dB à 1 kHz
Impédance de charge recommandée:	47 kΩ ~ 100 kΩ
Elasticité (dynamique):	12 × 10 ⁻⁶ cm/dyne à 100 Hz
Plage de la force verticale d'appui:	1,25 ± 0,25 g (12,5 ± 2,5 mN)
Poids:	6 g (cellule seule)
Pointe de lecture de remplacement:	EPS-30CS

■ Généralités

Alimentation:	Alternatif 220 V, 50 Hz
Consommation:	4 W
Dimensions:	43 × 10 × 37,5 cm
(L × H × P)	Hauteur maximum lorsque le dessus (couvercle protège-poussière) est ouvert. 43 × 37 × 41 cm
Poids:	4,5 kg

Sujet à changement sans préavis.

ESPECIFICACIONES

■ Sección del plato giratorio

Tipo:	Accionamiento directo Plato giratorio automático
Ventajas:	Retorno automático Parada automática
Método de accionamiento:	Accionamiento directo
Motor:	Motor de corriente continua sin escobillas
Platillo del plato giratorio:	Aluminio fundido Diámetro 31,2 cm
Velocidades del plato giratorio:	33-1/3 y 45 rpm
Ululaciones y trémolo:	0,012% WRMS* 0,025% WRMS (JIS C5521) ± 0,035% cresta (IEC 98A Ponderado)

* Estas características se refieren únicamente al conjunto del plato giratorio, con exclusión de los efectos provenientes del disco, cartucho o del brazo sonoro, incluyendo, empero, el platillo. La medida fue tomada por medio de la señal obtenida del generador de frecuencia incorporado del conjunto del motor.

Ruido de rodadura:

–56 dB (IEC 98 No Ponderado)
–78 dB (IEC 98A Ponderado)

■ Sección del brazo sonoro

Tipo:	Brazo sonoro recto equilibrado estéticamente Sistema de cartucho con conector enchufable
Longitud efectiva:	230 mm
Proyección:	15 mm
Angulo de error de seguimiento:	Inferior a 2°32' en el surco exterior de un disco de 30 cm Inferior a 0°32' en el surco interior de un disco de 30 cm
Masa efectiva:	13,5 g (incluyendo el cartucho)
Presión de la aguja:	1,25 g
Peso de cartucho utilizable:	6 g

■ Sección de cartucho

Tipo:	Cartucho estereofónico de imán móvil
Círculo magnético:	Núcleo totalmente laminado
Respuesta de frecuencia:	10 Hz a 35 kHz
Voltaje de salida:	2,5 mV a 1 kHz
Separación de canales:	Con velocidad lateral de cero a cresta de 5 cm/s.
Equilibrio de canales:	[7 mV a 1 kHz Velocidad de 45° de cero a cresta de 10 cm/s. (DIN 45 500)]
Impedancia de carga recomendada:	22 dB a 1 kHz
Elasticidad (dinámica):	Sin exceder 2 dB a 1 kHz
	47 kΩ a 100 kΩ
	12×10^{-6} cm/dina a 100 Hz

Radio de presión de la aguja:

$1,25 \pm 0,25$ g ($12,5 \pm 2,5$ mN)

6 g. (cartucho sólo)

EPS-30CS

■ En general

Alimentación de corriente:

~ 110–127/220–240V, 50 ó 60 Hz

4 W

43 x 10 x 37,5 cm

(Altura máxima cuando la parte de arriba (tapa contra el polvo) está abierta.

43 x 37 x 41 cm

4,5 kg

Peso:

Estas especificaciones están sujetas a cualquier cambio sin previo aviso.

■ MEASUREMENTS AND ADJUSTMENT — English —

1. Arm-lift height

The arm-lift height (distance between the stylus tip and the record surface when the cueing control is at the "▼" position) has been adjusted at the factory to approximately 5 to 7 mm.

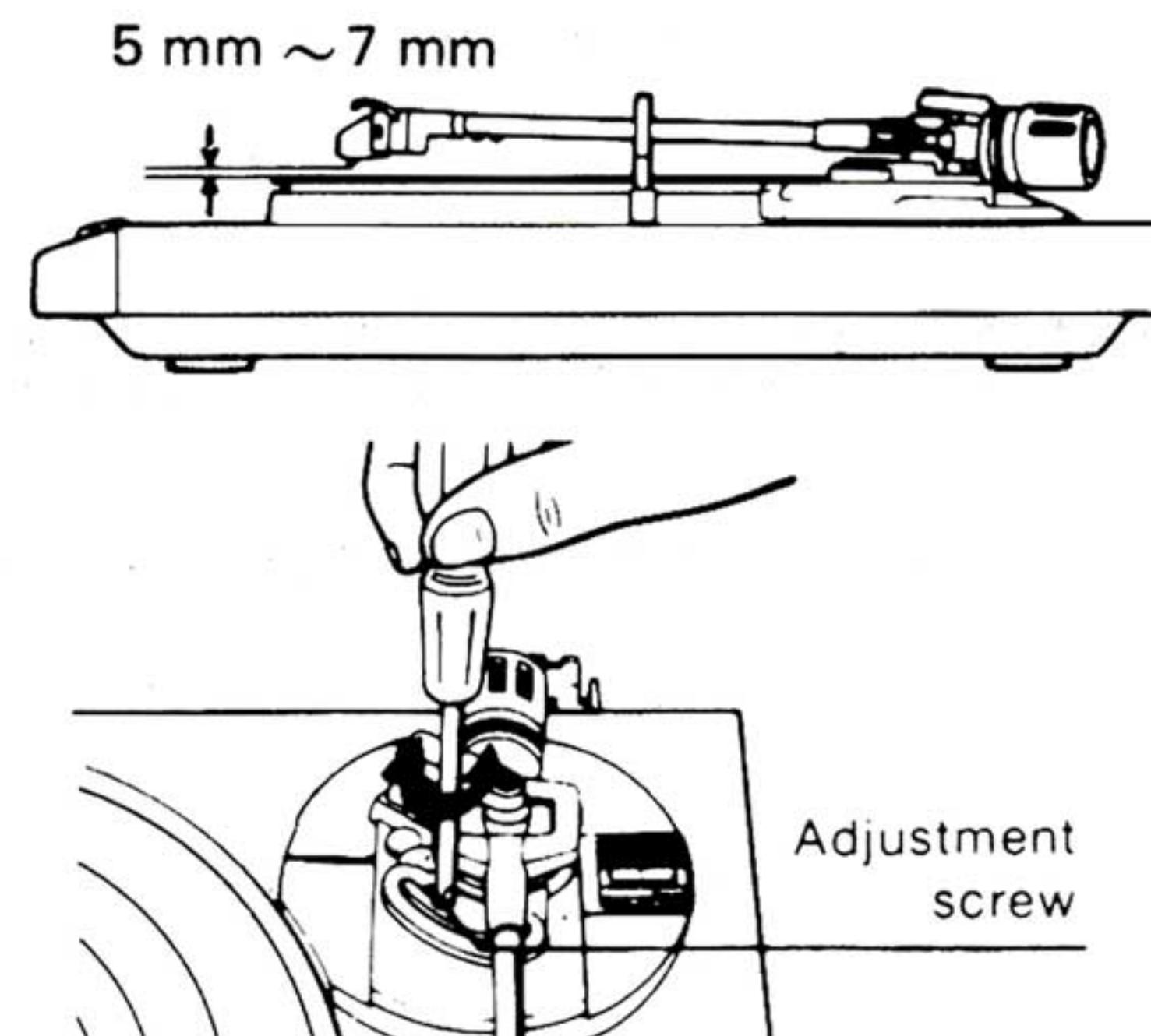
If the clearance is too narrow or too wide, turn the adjustment screw clockwise or counterclockwise.

Clockwise rotation

— distance between the record and stylus tip is decreased.

Counterclockwise rotation

— distance between the record and stylus tip is increased.



2. Automatic return position

(Remove the rubber cap.)

1. Put the stylus protector on the cartridge.
2. Move the tonearm toward the center of the record.

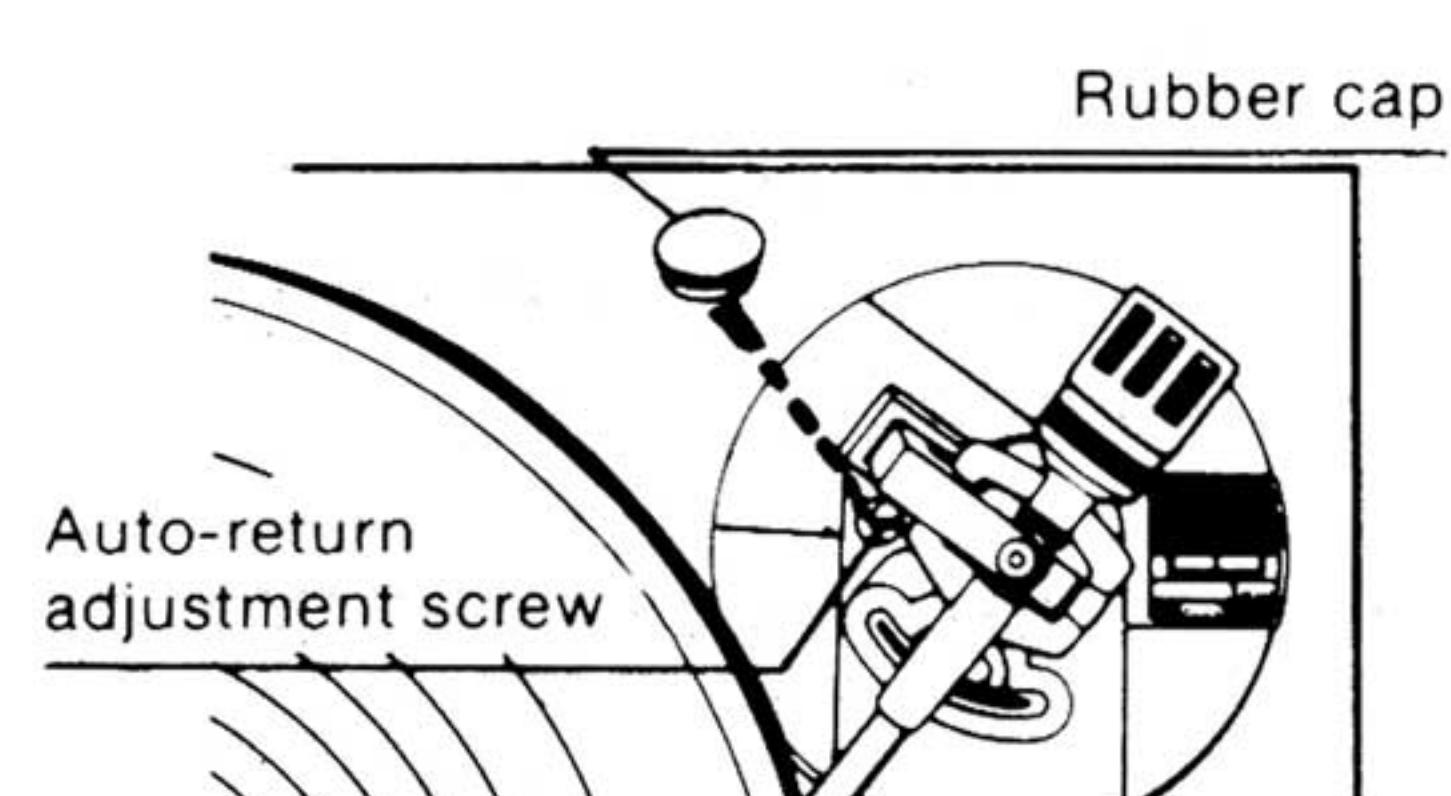
The auto-return adjustment screw will appear.

If the tonearm tends to return to the arm reset before the play has finished.

— turn counterclockwise.

If the tonearm fails to return after the final groove.

— turn clockwise.



■ MESSUNGEN UND JUSTIERUNGEN ————— Deutsch

1. Justierung der Tonamplifithöhe

Die Tonarmmilifithöhe, d.h. der Abstand zwischen Nadelspitze und Schallplattenoberfläche bei Liftsteuerungs-Position "▼", wurde werkseitig auf ca. 5 ~ 7 mm eingestellt.

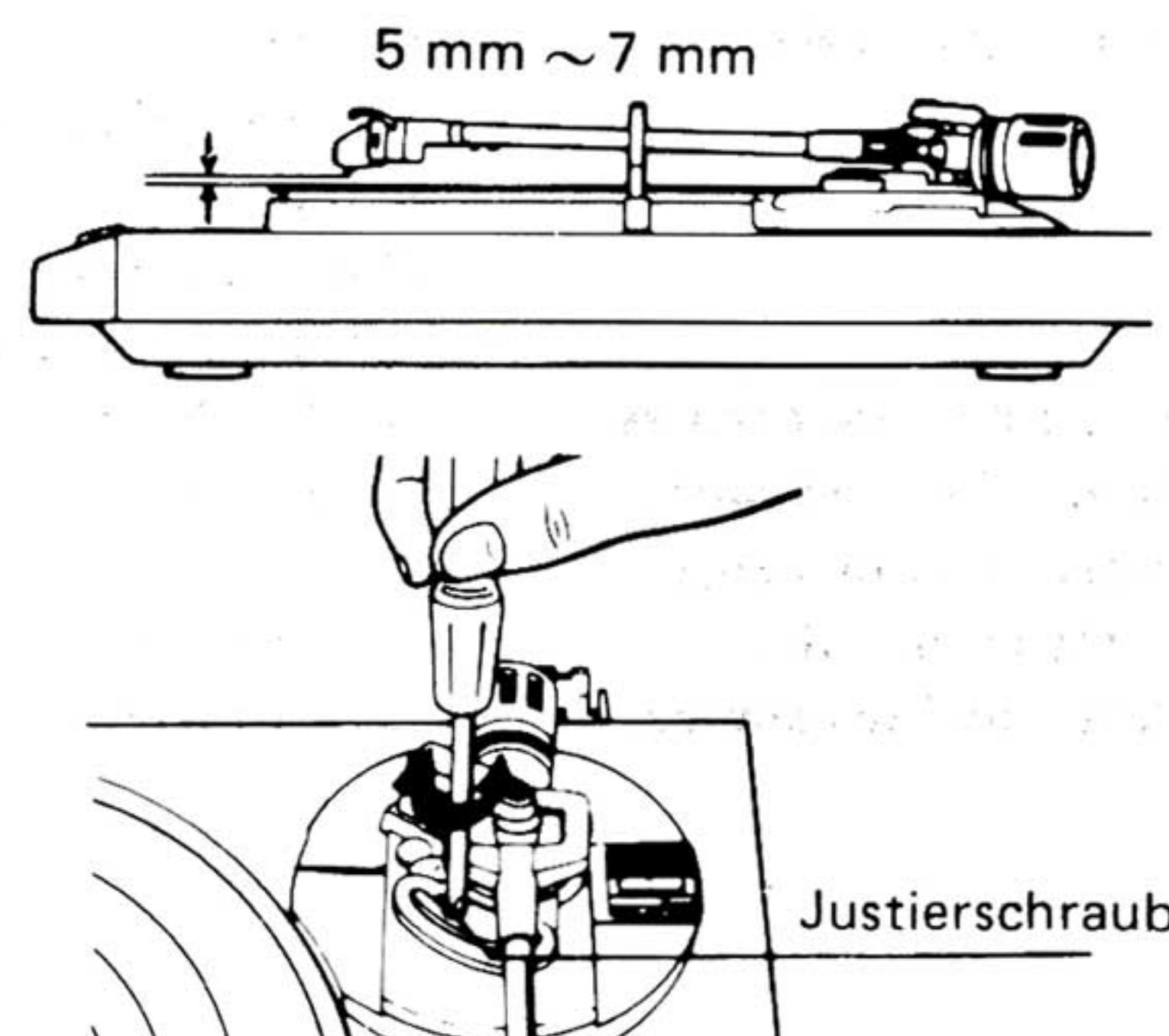
Falls der Abstand zu groß oder zu klein ist (z.B. wegen unterschiedlicher Tonabnehmergröße), drehen Sie die Justierschraube im Uhrzeigersinn oder entgegen dem Uhrzeigersinn.

Drehung im Uhrzeigersinn

— Der Abstand zwischen der Platte und der Nadelspitze wird kleiner.

Drehung entgegen dem Uhrzeigersinn

— Der Abstand zwischen der Platte und der Nadelspitze wird größer.



2. Justierung des Abschaltpunktes der Automatik

(Die Gummikappe abnehmen)

1. Setzen Sie den Nadelschutz auf den Tonabnehmer auf.

2. Führen Sie den Tonarm gegen die Plattenmitte.

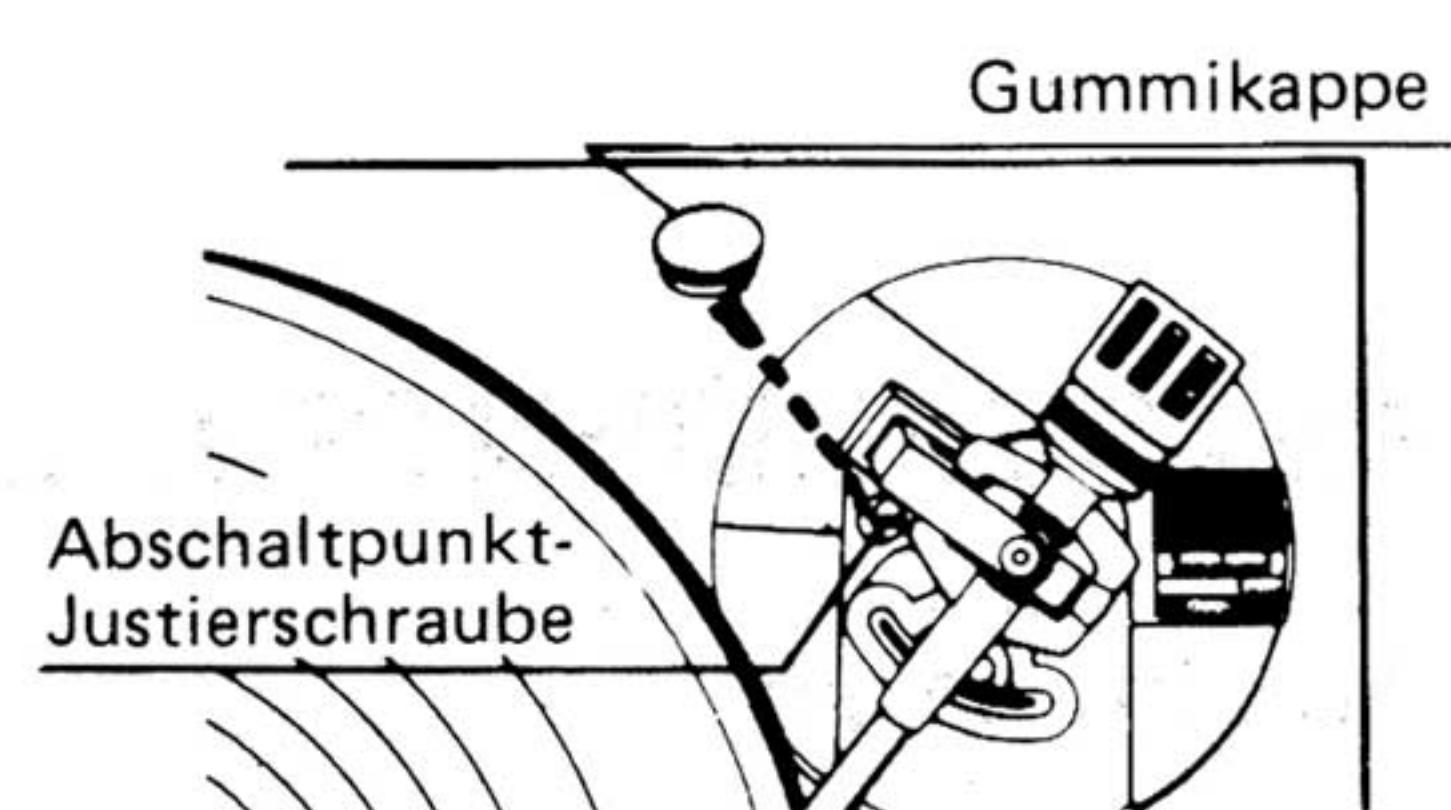
Die Justierschraube für den Abschaltpunkt der Automatik wird dann sichtbar:

Falls der Tonarm zu früh zurückkehrt.

— Entgegen dem Uhrzeigersinn drehen.

Falls der Tonarm nach Erreichen der Auslaufrolle nicht zurückkehrt.

— Im Uhrzeigersinn drehen.



■ MESURAGES ET RÉGLAGES ————— Français

1. Mise au point de la hauteur de l'élévateur du bras

La hauteur de l'élévateur du bras (distance entre l'extrémité de la pointe de lecture et la surface du disque, lorsque la commande de pose et de relevage est à la position "▼") a été réglée en usine sur approximativement 5 à 7 mm.

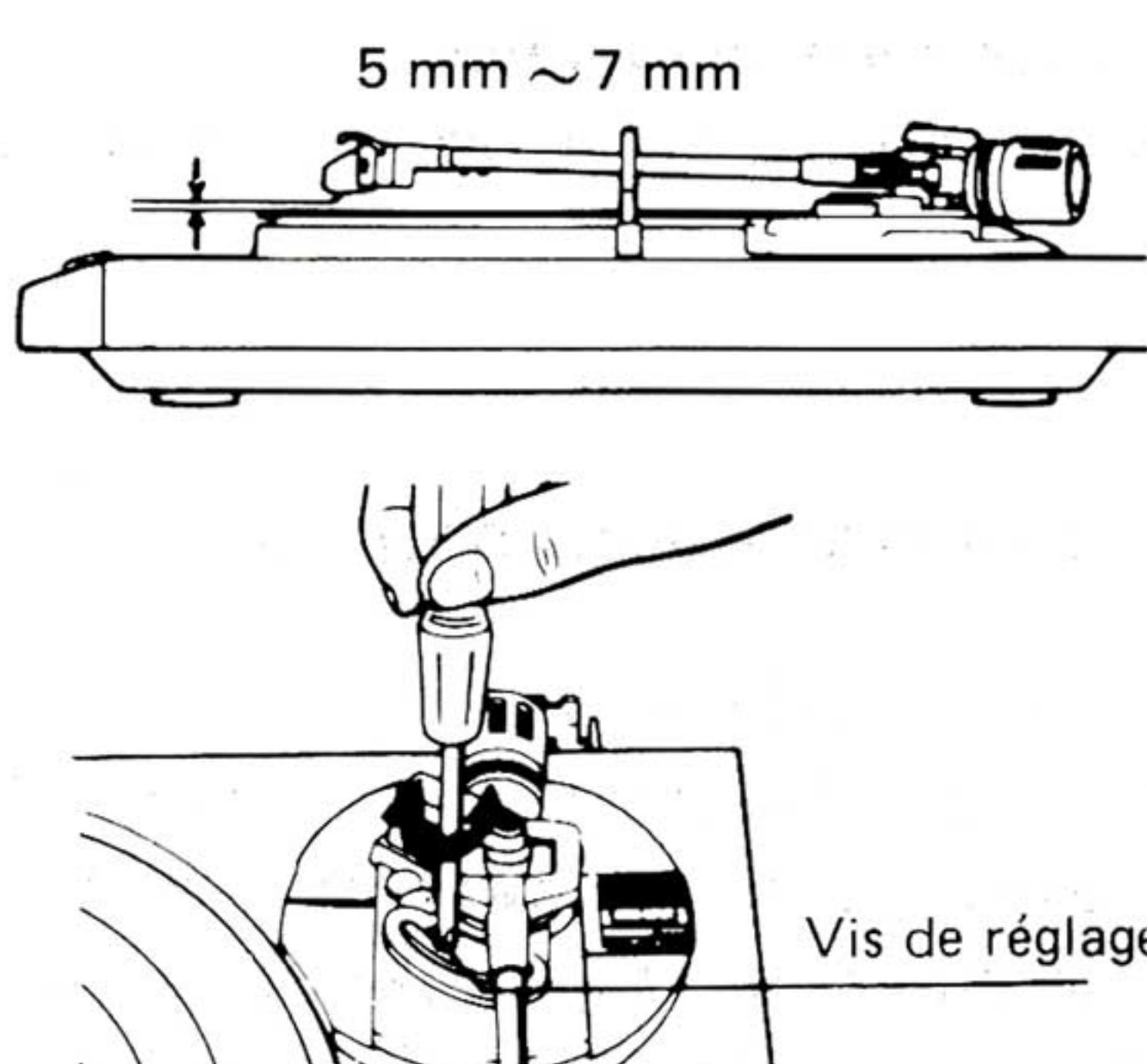
Si l'écartement est trop étroit ou trop large, tourner la vis de réglage dans le sens des aiguilles d'une montre ou dans le sens contraire.

Rotation dans le sens des aiguilles d'une montre.

— La distance entre la surface du disque et l'extrémité de la pointe de lecture diminue.

Rotation dans le sens contraire des aiguilles d'une montre.

— La distance entre la surface du disque et l'extrémité de la pointe de lecture augmente.



2. Mise au point de la position de retour automatique

(Retirer le tapis du plateau de lecture.)

1. Placer le capot protecteur de la pointe de lecture sur la cellule pick-up.

2. Déplacer le bras de lecture vers le centre du disque.

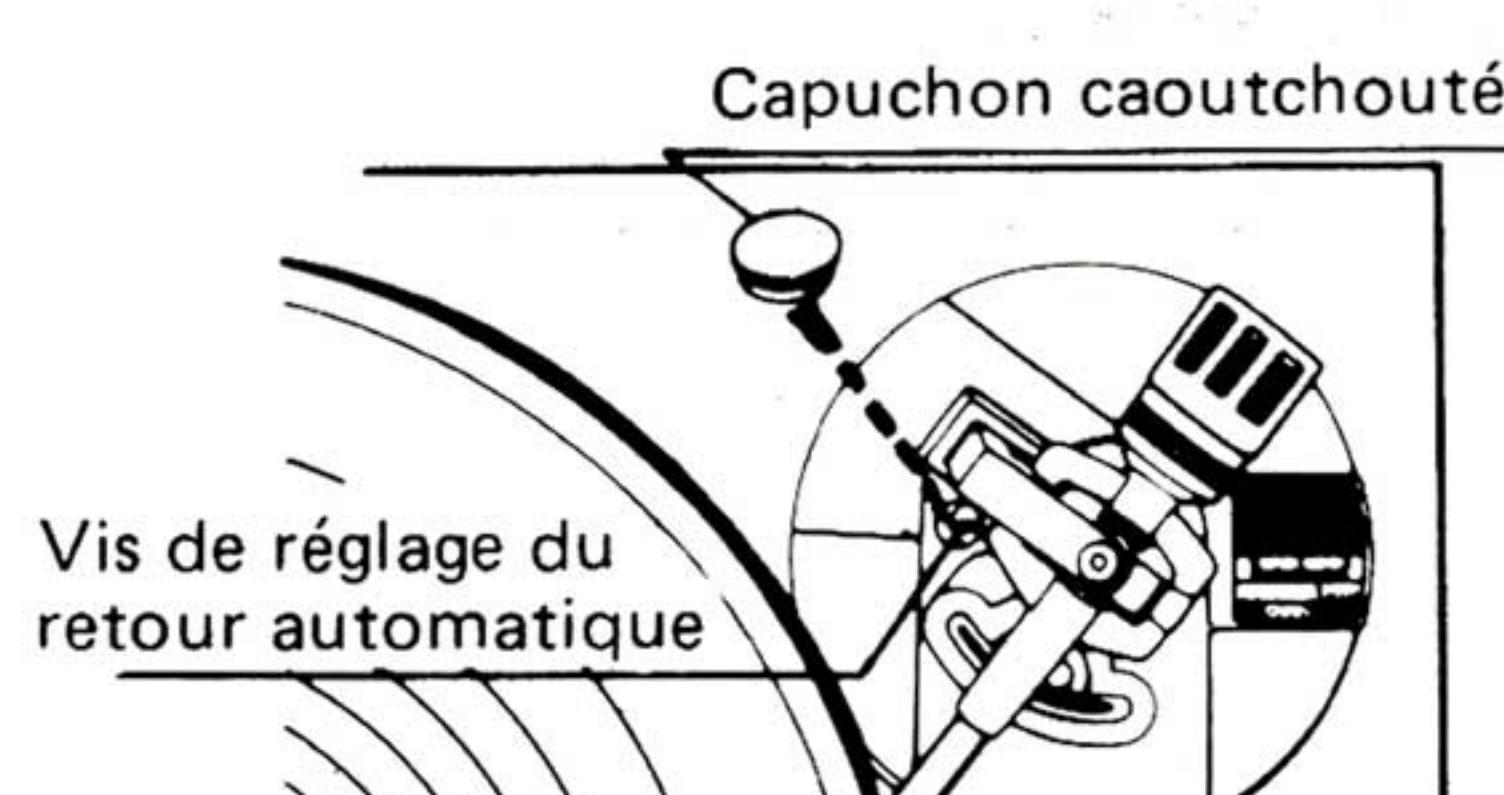
Alors, la vis de réglage du retour automatique apparaîtra.

Si le bras de lecture tend à revenir vers le support du bras avant que l'audition ne soit terminée.

— tourner dans le sens contraire des aiguilles d'une montre.

Si le bras de lecture ne peut revenir en arrière après le dernier sillon.

— tourner dans le sens des aiguilles d'une montre.



1. Ajuste de la altura de elevación del brazo

La altura de elevación del brazo (o sea, la distancia entre la punta de la aguja y la superficie del disco cuando el control de colocación esté en la posición "▼") ha sido regulada en la fábrica aproximadamente entre 5 y 7 mm.

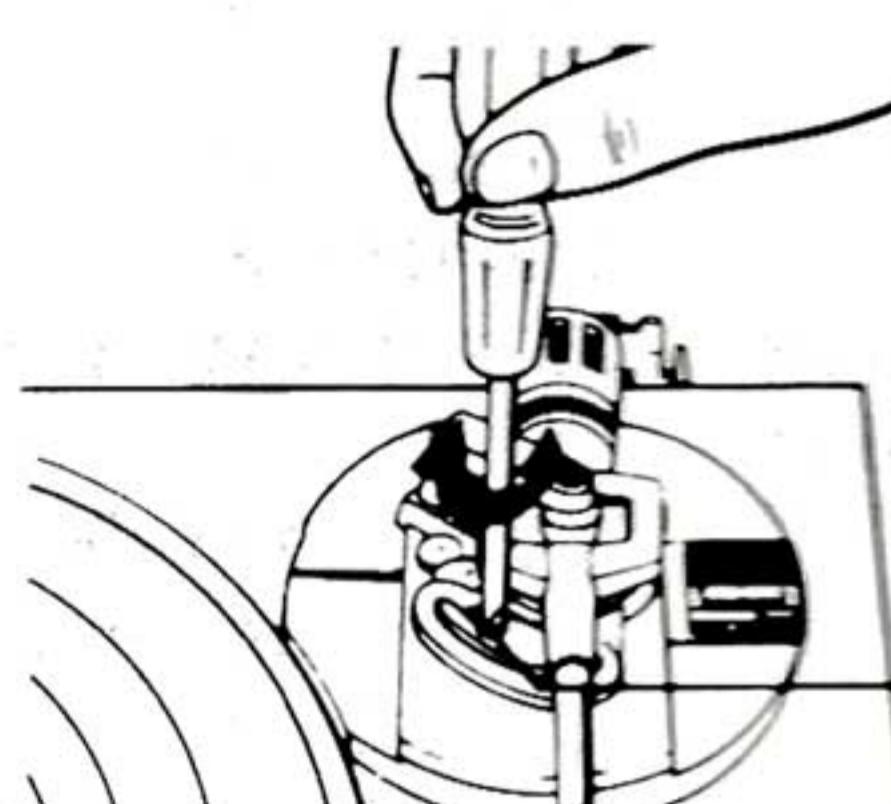
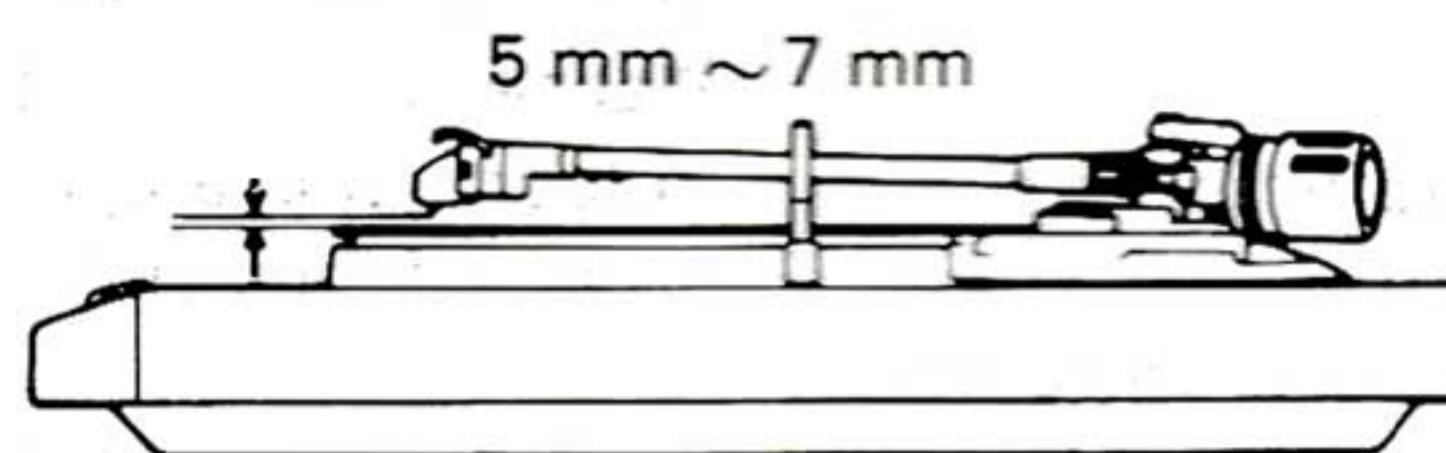
En caso que la distancia fuese demasiado abundante o demasiado escasa, girar el tornillo de ajuste hacia la derecha o hacia la izquierda.

Rotación hacia la derecha

— reduce la distancia entre el disco y la punta de la aguja.

Rotación hacia la izquierda

— aumenta la distancia entre el disco y la punta de la aguja.



Tornillo de ajuste

2. Ajuste de la posición para retorno automático

(Quitar la almohadilla del plato giratorio.)

1. Colocar la protección de la aguja en el cartucho.

2. Mover el brazo sonoro hacia el centro del disco.

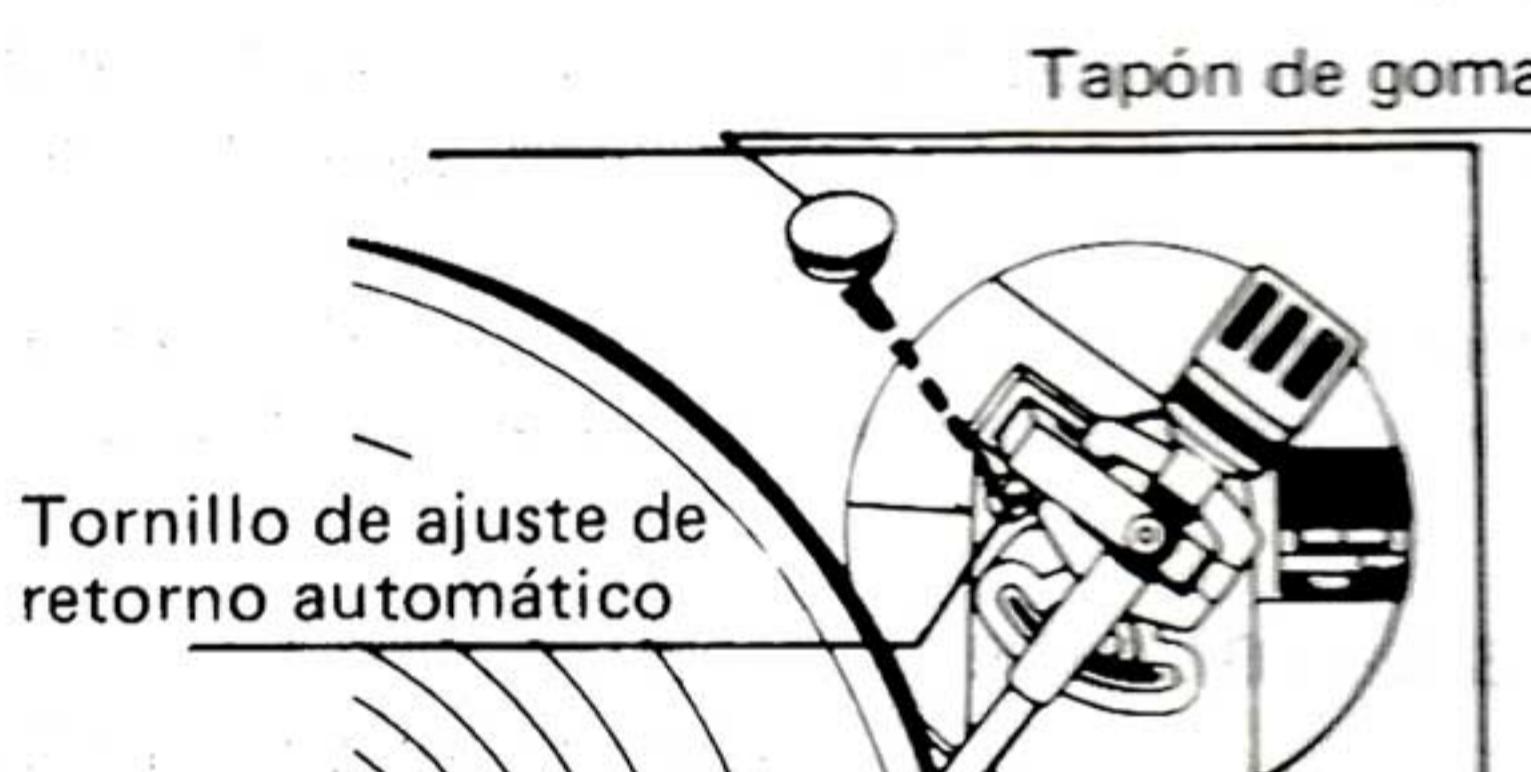
Con ello, aparecerá el tornillo de ajuste del retorno automático.

Cuando el brazo sonoro tienda a volver a su apoyo antes de terminar la ejecución.

— Girar hacia la izquierda.

En caso que el brazo sonoro no vuelva después de haber tocado el último surco del disco.

— Girar hacia la derecha.



■ CHANGE IN REPLACEMENT PARTS LIST

Notes:

1. Mentioned in this parts list are only those changed in Model No. SL-DD2 for destination [M] area.
2. Important safety notice:
Components identified by **▲** mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
3. **(K)**-marked parts are used for black only, while **O**-marked parts are for silver type only.
4. Part other than **(K)**- and **O**-marked are used for both black and silver type.
5. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Ref. No.	Change of Part		Area & Color	Part Name & Description	
	SL-DD2 [M] → SL-DD2/(K)				
SWITCH					
S901	Addition	SFDHXW225-3	[XA] only	Voltage Selector ▲	
POWER TRANSFORMERS					
T1	SLT48DTL3A	SLT48DTE13E	[EK, XL]	Power Source ▲	
		SLT57DT7E	[XA]		
		SLT48DT10E	[Other]		
FUSES					
F1	Addition	XBA2C05TR0		250V, T500mA ▲	
F902	Addition	XBA2C016TR0	[XA] only	250V, T160mA ▲	
CABINET and CHASSIS PARTS					
7	SFGCC05N02	SFGCC05X01	[XA]	Rubber Cushion	
		SFGCC05N02	[Other]		
9	SFDJHSC0491	SFDJHSC0491	[XL]	AC Socket ▲	
		SFDJHSC04912	[XA]		
		SFDJHSC0516	[Other]		
10	SFACDD2N01E	SFACDD2N01E	O	Cabinet	
		SFACDD2N21E	(K)		
10-1	SFKBBD2N01	SFKBBD2N01	O	Badge	
		SFKBBD2N21	(K)		
12	SFKKDD2N01	SFKKDD2N01	O	Ornament Plate	
		SFKKDD2N21	(K)		
15	SFNDD2M01	SFNNDD2S01	[E, EC]	Name Plate	
		SFNNDD2G01	[EK, XL]		
		SFNNDD2R01	[EG]		
		SFNNDD2X01	[XA]		
		SFNNDD2Q01	[Other]		

Ref. No.	Change of Part		Area & Color	Part Name & Description	
	SL-DD2 [M] → SL-DD2/(K)				
TONEARM PARTS					
41	SFPAMDD201A	SFPAMDD201A	O	Tonearm	
		SFPAMDD202A	(K)		
43	SFGK170-01	SFGK170-01	O	Rubber Cap	
		SFGK171F01	(K)		
54	Addition	EPC-P30S		★ Cartridge	
55	Addition	EPS-30CS		★ Stylus	
56	Addition	SFCNC03301		Cover, Stylus	
ACCESSORIES					
A1	SFNUDD2M01	SFNUDD2G01	[EK]	Instruction Book	
		SFNUDD2R01	[EG]		
		SFNUDD2F01	[EF]		
		SFNUDD2I01	[Ei]		
		SFNUDD2X01	[XL, XA]		
		SFNUDD2S01	[Other]		
A4	SFDAC05M01	SFDAC05G02	[EK]	AC Cord ▲	
		SFDAC05L01	[XL]		
		SFDAC05X02	[XA]		
		SFDAC05E02	[Other]		
A6	Addition	SFDKI19118	[XA] only	Plug ▲	
PACKING PARTS					
P1	SFHPDD2M01	SFHPDD2C01	[EF] O	Carton Box	
		SFHPDD2M01	[Other] O		
		SFHPDD2F21	[EF] (K)		
		SFHPDD2M21	[Other] (K)		

■ SCHEMATIC DIAGRAM AND PRINTED CIRCUIT BOARD

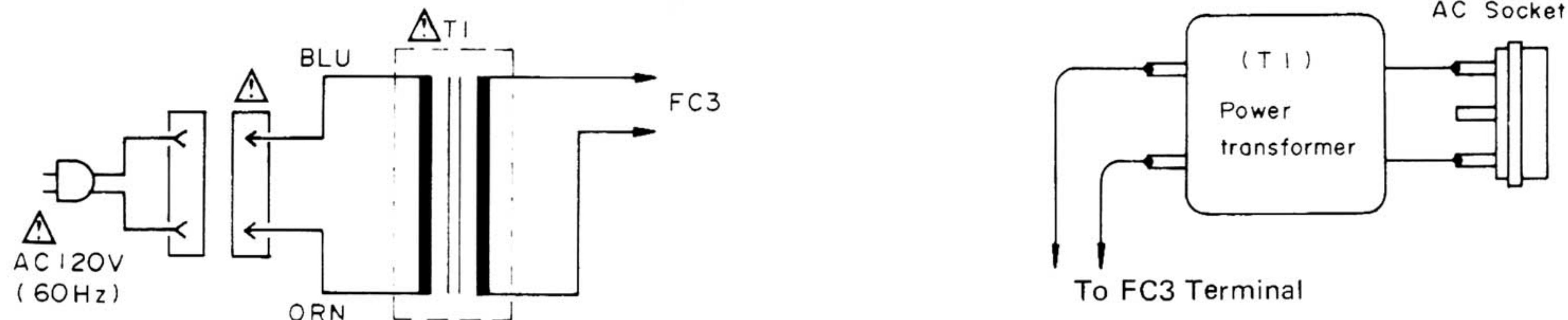
Important safety notice:

Components identified by  mark have special characteristics important for safety.

When replacing any of these components use only manufacturer's specified parts.

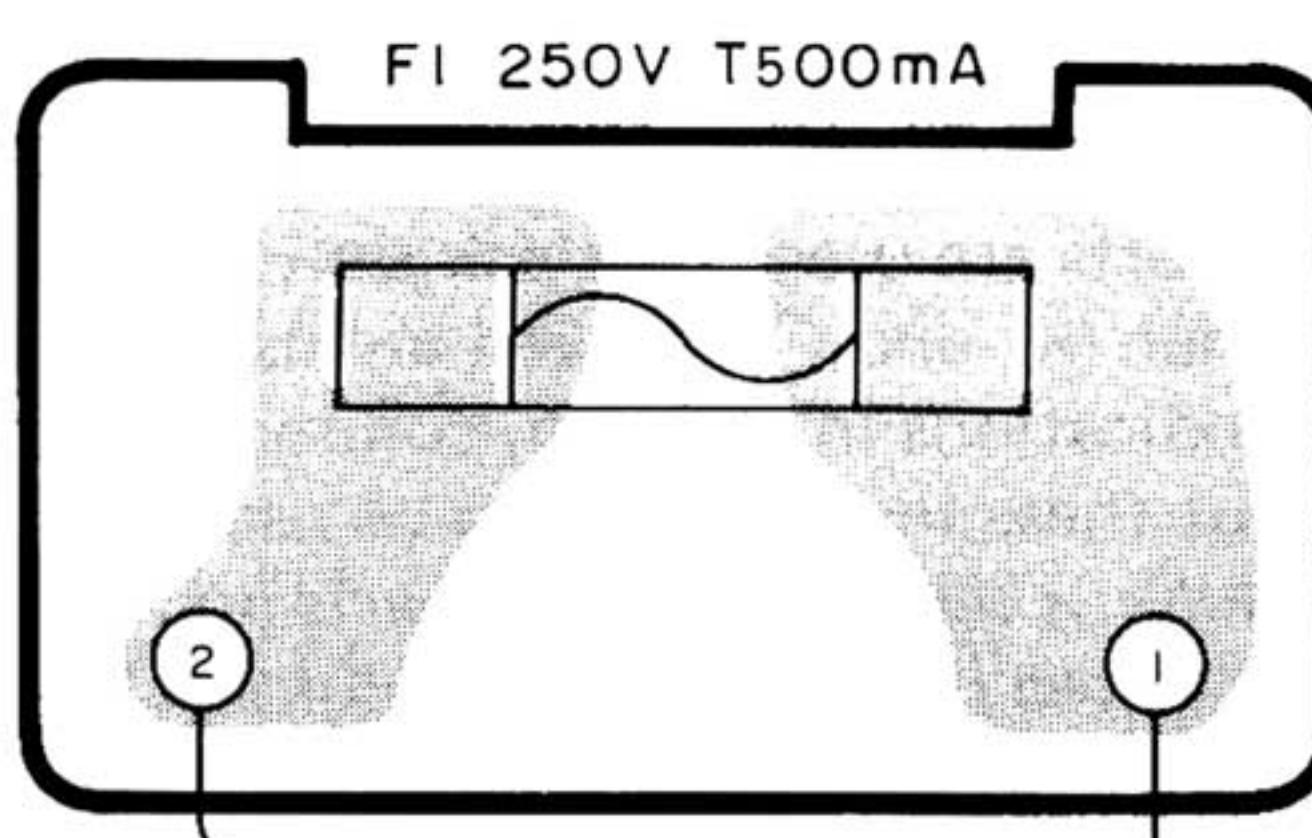
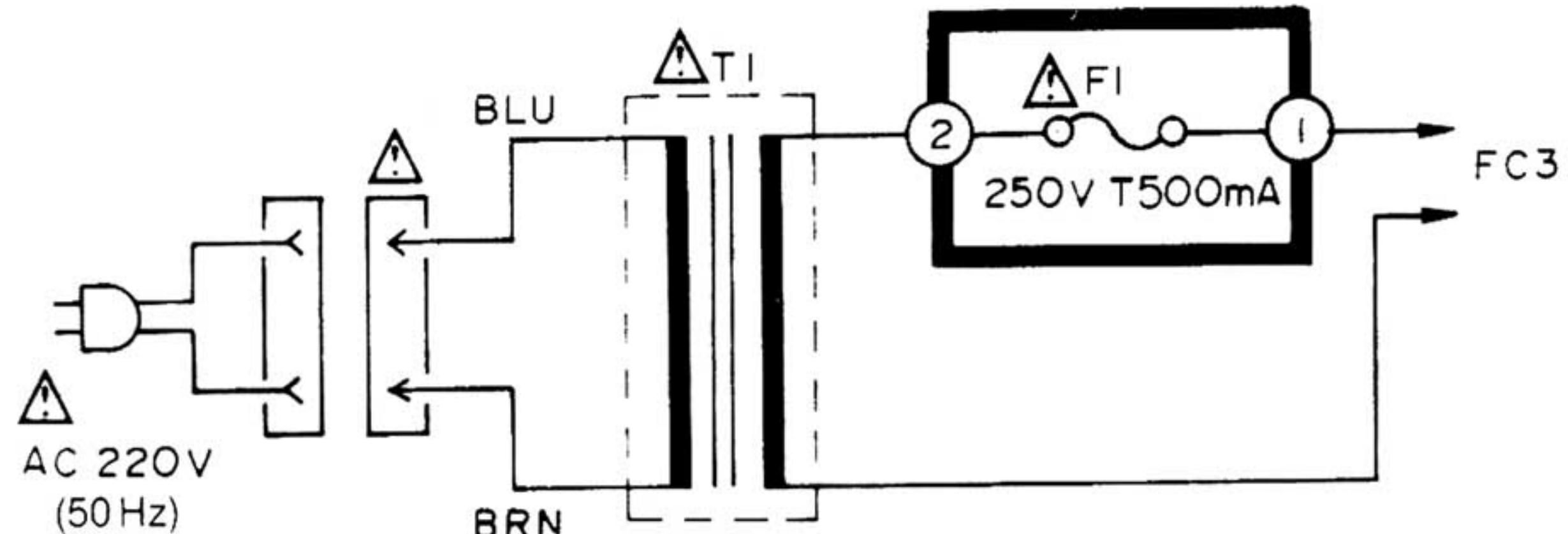
• Change in power source circuit

Product for U.S.A. ([M] area)

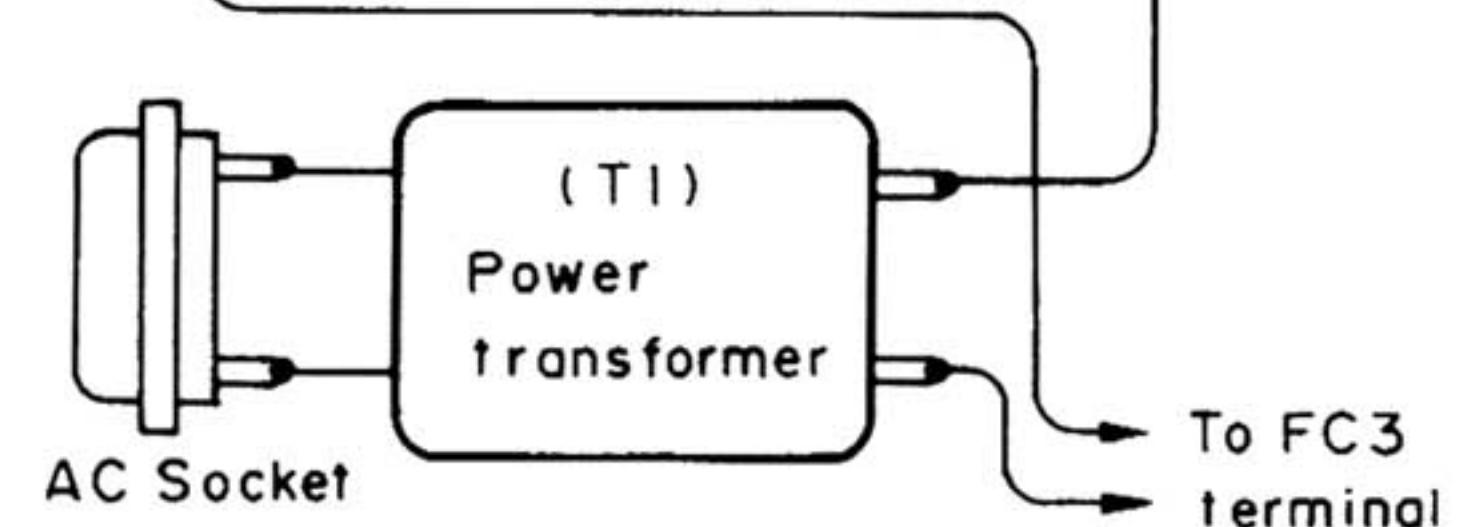
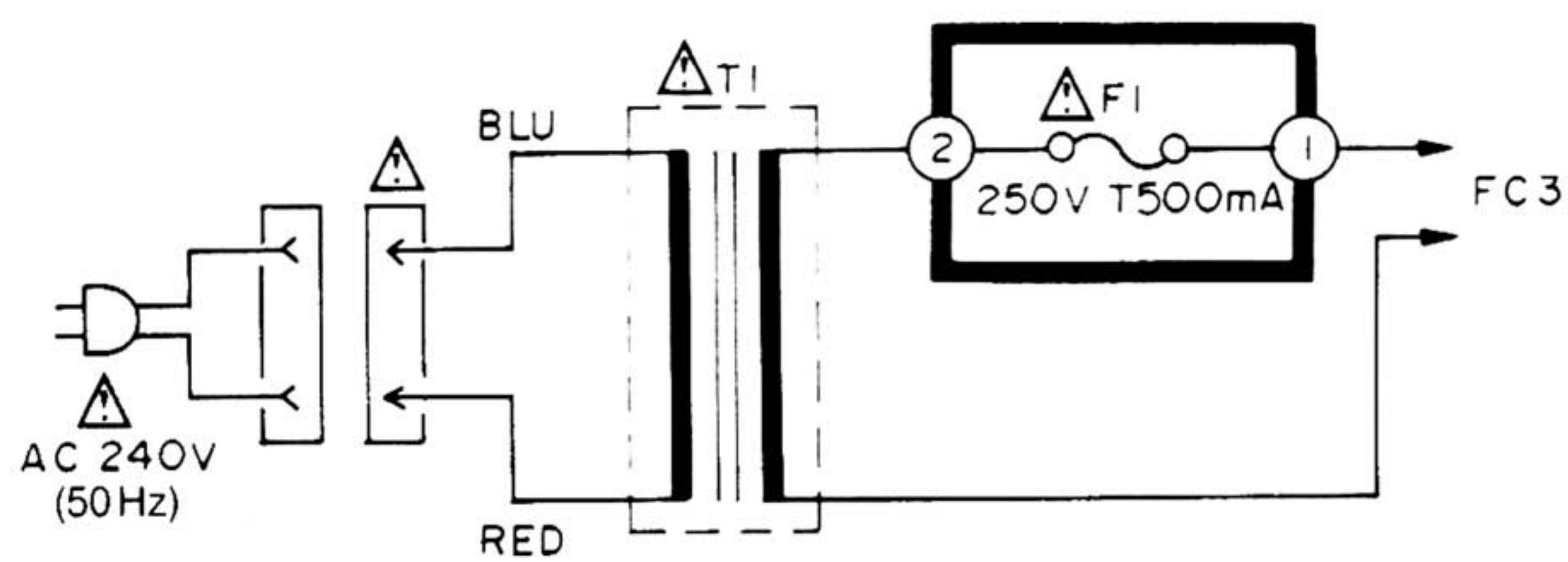


Change

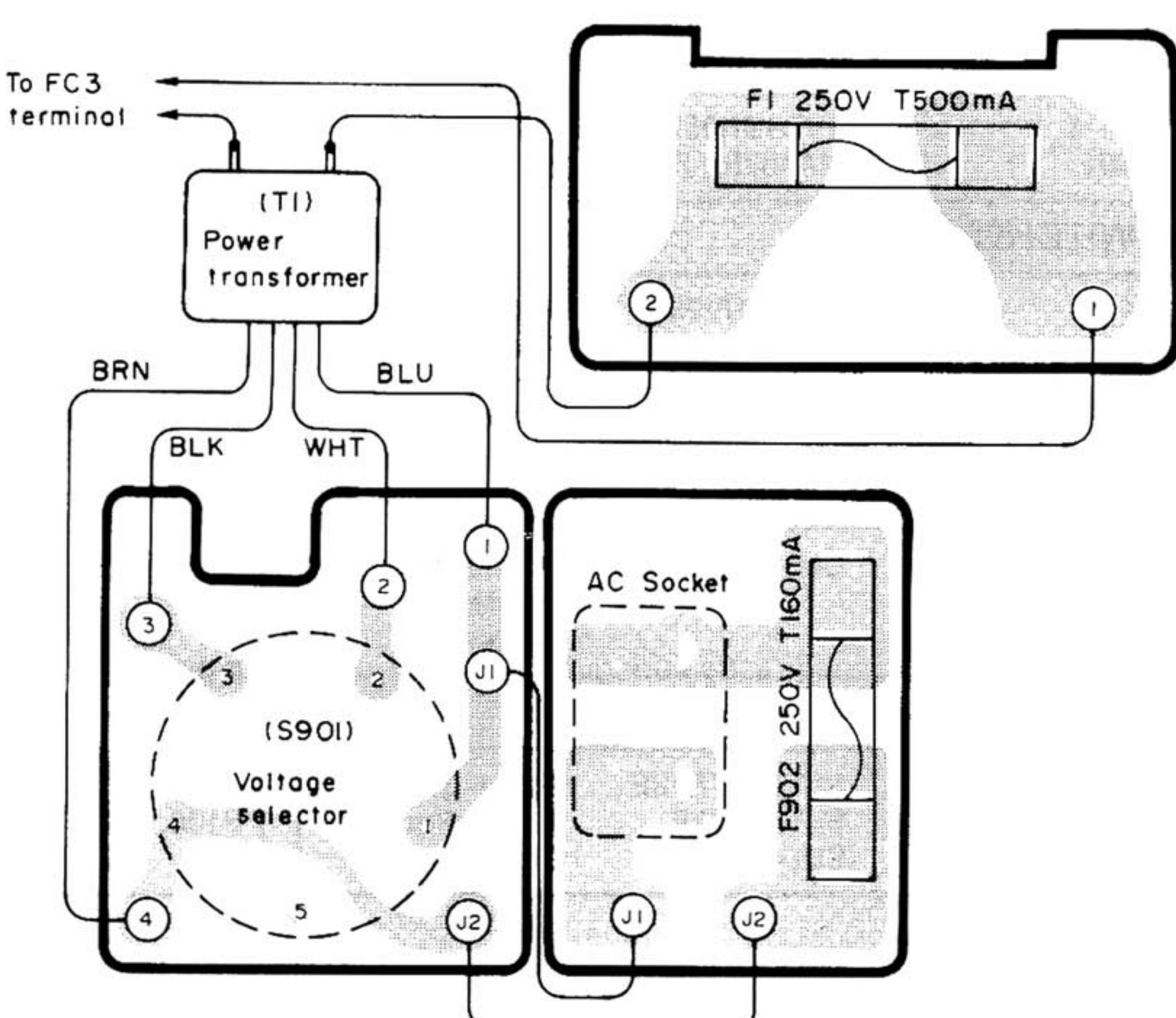
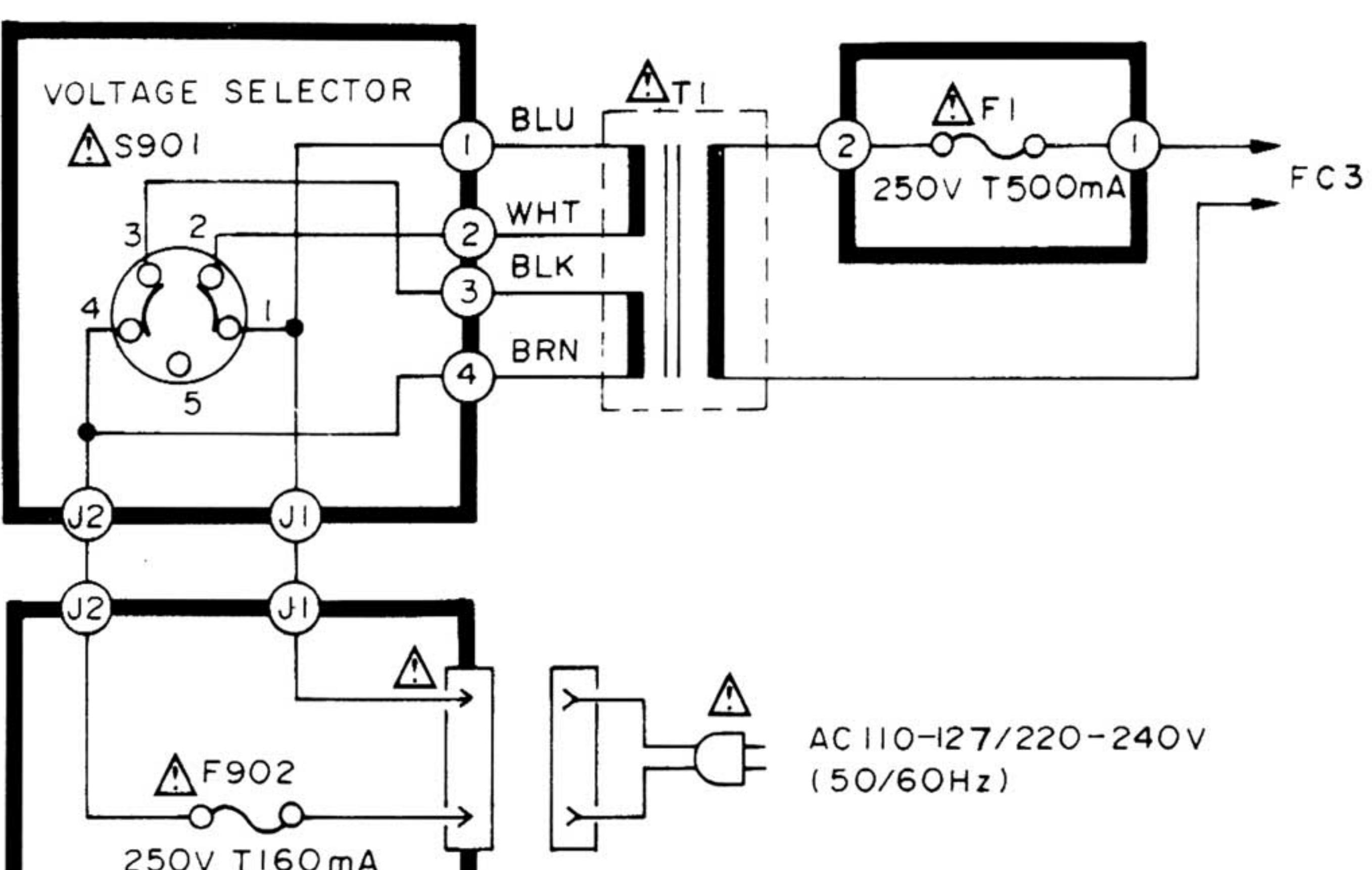
Product for Continental Europe ([E], [EG], [EB], [EH], [EF], [Ei] and [EC] areas.)



Product for United Kingdom and Australia ([EK] and [XL] areas)

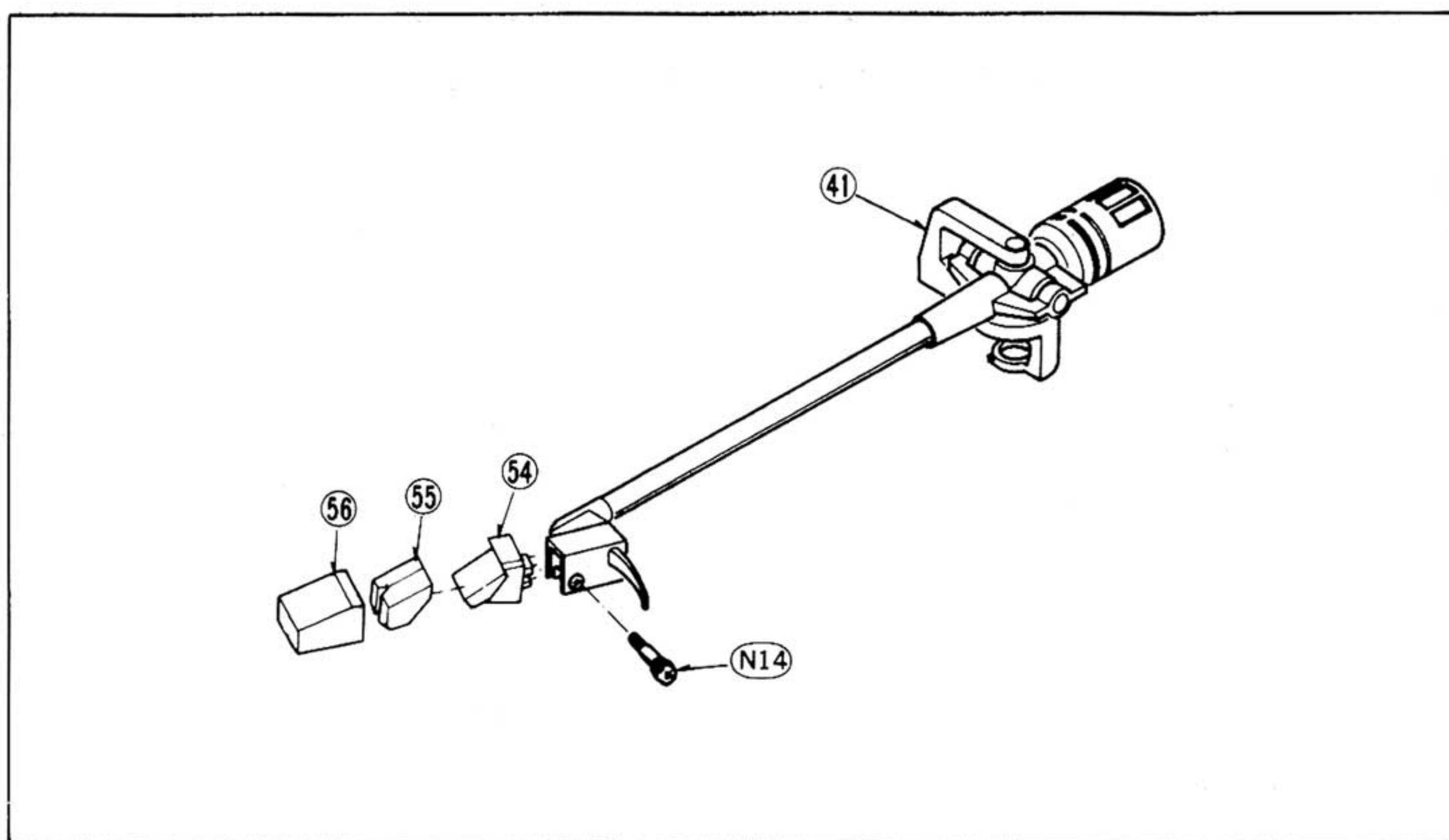


Product for Southeast Asia, Oceania, Africa, Middle Near East and Central South America. ([XA] area)



■ EXPLODED VIEW

• Addition of cartridge, stylus and stylus cover



■ REPLACEMENT PARTS LIST

Notes:

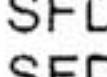
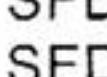
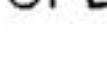
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
2. Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. \textcircled{K} -marked parts are used for black only, while \textcircled{O} -marked parts are for silver type only.
4. Part other than \textcircled{K} -and \textcircled{O} -marked are used for both black and silver type.
5. Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.
6. The "S" mark is service standard parts and may differ from production parts.
7. The parenthesized numbers in the column of description stand for the quantity per set.

Color	Areas
(S) (K)	[E] Switzerland and Scandinavia.
(S) (K)	[EK] ... United Kingdom.
(S) (K)	[XL] ... Australia.
(S) (K)	[EG] .. F.R. Germany.
(S) (K)	[EB] ... Belgium.
(S) (K)	[EH] .. Holland.
(S) (K)	[EF] ... France.
(S) (K)	[Ei] Italy.
(S) (K)	[EC] ... Czechoslovakia.
(S) (K)	[XA] ... Southeast Asia, Oceania, Africa, Middle Near East and Central South America.

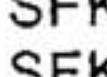
Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	AN78N12	Regulator
IC101	AN6639	Turntable Drive
DIODES		
D1~4	Δ SVD1SR35200V	Rectifier
D101	MA1075-FV	7.5V, Zener
SWITCHES		
S1	Δ SFSD72R01	Power
S2	Δ SFDSHSHW0949	Speed Selector
S901 [XA] only	Δ SFDSHXW225-3	Voltage Selector
HALL ELEMENTS		
H101, 102	OH-002	Turntable Position Detector
POWER TRANSFORMERS		
T1 [EK, XL]	Δ SLT48DTE13E	Power Source
T1 [XA]	Δ SLT57DT7E	Power Source
T1 [other]	Δ SLT48DT10E	Power Source

Ref. No.	Part No.	Description
OSCILLATOR		
X101	SVFCSB525P	525 kHz Ceramic Oscillator
FUSES		
F1	Δ XBA2C05TR0	250V, T500mA
F902 [XA] only	Δ XBA2C016TR0	250V, T160mA
Ref. No.	Part No.	Description
RESISTORS		
R101	ERD10TLJ101U	Chip Carbon, 1/8W, 100 Ω , $\pm 5\%$
R102	ERX1ANJ1R8	Metal Film, 1W, 1.8 Ω , $\pm 5\%$
R103	ERD10TLJ822U	Chip Carbon, 1/8W, 8.2K Ω , $\pm 5\%$
R104	ERD10TLJ150U	Chip Carbon, 1/8W, 15 Ω , $\pm 5\%$
R105	ERD10TLJ101U	Chip Carbon, 1/8W, 100 Ω , $\pm 5\%$
R106, 107	ERD10TLJ471U	Chip Carbon 1/8W, 470 Ω , $\pm 5\%$

Ref. No.	Part No.	Description
CAPACITORS		
C1, 2, 3 Δ	ECQG1223KZ	Polyester, 100V, 0.022 μ F, $\pm 10\%$
C4	ECEB1VU102	Electrolytic, 35V, 1000 μ F
C5, 6	ECFR1H104ZF	Ceramic, 50V, 0.1 μ F, $\pm 20\%$
C101	ECQM1H562JV	Polyester, 50V, 0.0056 μ F, $\pm 5\%$
C102	ECUV1H181JCM	Chip Ceramic, 50V, 180PF, $\pm 5\%$
C104	ECEA1AN470SB	Non Polar Electrolytic, 10V, 47 μ F
C105	ECEA1AN330S	Non Polar Electrolytic, 10V, 33 μ F
C106	ECFR1H104ZF	Ceramic, 50V, 0.1 μ F, $\pm 20\%$
C107	ECEA1CN100S	Non Polar Electrolytic, 16V, 10 μ F
C108	ECEA1AN330S	Electrolytic, 10V, 33 μ F
C109	ECEA1CU330	Electrolytic, 16V, 33 μ F
C111	ECFR1H104ZF	Ceramic, 50V, 0.1 μ F, $\pm 20\%$

Ref. No.	Part No.	Description	
CABINET and CHASSIS PARTS			
1	SFADZ15R01E	Dust Cover	(1)
1-1	SFGZD04N01	Rubber Cushion	(2)
2	SFTGBD2N01	Turntable Mat	(1)
3	SFTEDD2N01	Turntable Platter	(1)
4	SFTMC07-01E	Magnet	(1)
5	SFMGQ34N01	Cover, Stator Coil	(1)
6	SFMZQ63M53A	Stator Flame Ass'y	(1)
7	SFGCC05X01	Rubber Cushion	(2)
7 [XA] only	SFGCC05N02	Rubber Cushion	(2)
8	SFGZC05N03	Rubber Cushion	(1)
9 [XL] 	SFDJHSC0491	AC Socket	(1)
9 [XA] 	SFDJHSC04912	AC Socket	(1)
9 [other] 	SFDJHSC0516	AC Socket	(1)
10	○ SFACDD2N01E	Cabinet	(1)
10	◎ SFACDD2N21E	Cabinet	(1)
10-1	○ SFKBBB2N01	Badge	(1)
10-1	◎ SFKBBB2N21	Badge	(1)
11	SFKTBD2N03	Knob, Speed Selector	(1)
12	○ SFKKDD2N01	Ornament Plate	(1)
12	◎ SFKKDD2N21	Ornament Plate	(1)
13	SFUMQD3N01	Lever, Speed Selector	(1)
14	SFATZ15R01A	Hinge	(2)
15 [E, EC]	SFNNDD2S01	Name Plate	(1)
15 [EK, XL]	SFNNDD2G01	Name Plate	(1)
15 [EG]	SFNNDD2R01	Name Plate	(1)
15 [XA]	SFNNDD2X01	Name Plate	(1)
15 [other]	SFNNDD2Q01	Name Plate	(1)
16	SFKTBD2N01	Button, Stop	(1)
17	SFUZB63M01	Rod, Stop Button	(1)
18	SFUMBD3N01	Base, Stop Button	(1)
19	SFKTBD2N02	Button, Cueing	(1)
20	SFQPZ15R02	Spring, Cueing	(1)
21	SFUMBD3N02	Button	
22	SFUMBD2N03	Guide, Cueing	(1)
23	SFAUBD2N01	Button	
24	SFGABD2N01	Bottom, Cover	(1)
25	SFQCQD3N01	Insulator	(4)
26	SFQCD3N01	Spring, Insulator	(4)
26	SFDJBD2N01	Jack, Phono Outlet	(1)
27	SFQHZ15R01	Spring, Stop Button	(1)
28	SFYB-5-32	Ball	(1)

Ref. No.	Part No.	Description	
TONEARM PARTS			
41	○ SFPAMDD201A	Tonearm	(1)
41	◎ SFPAMDD202A	Tonearm	(1)
42	SFKUZ15R01	Arm Rest	(1)
43	○ SFGK170-01	Rubber Cap	(1)
43	◎ SFGK171F01	Rubber Cap	(1)
44	SFKKBD2N02	Plate, Canceller	(1)
45	SFXJBD2N51	Lift Shaft	(1)
46	SFUMBD2N51	Lift Arm	(1)
47	SFUPBD3N51E	Arm Base	(1)
48	SFQAZ15R53	Spring	(1)
49	SFUPB63M52E	Fixing Plate	(1)
50	SFQHB63M57	Spring	(1)
51	SFQHB63M56	Spring	(1)
52	SFUMZ15R57	Spring Pin	(1)
53	SFGZZ15R02	Holder	(2)
54	EPC-P30S	★ Cartridge	(1)
55	EPS-30CS	★ Stylus	(1)
56	SFCNC03301	Cover, Stylus	(1)
AUTOMATIC MECHANISM PARTS			
61	SFUKQ62M52E	Mechanism Plate	(1)
62	SFUBQ62M51E	Drive Plate	(1)
63	SFUGB63M51E	Main Gear Ass'y	(1)
64	SFUMQQ2M53E	Cut Lever Ass'y	(1)
64-1	SFQHQ62M51	Spring	(1)
65	SFUMQ62M52E	Record Size	(1)
65-1	SFQHB63M53	Detector Ass'y	
66	SFUMB63M59	Spring	(1)
67	SFUMB63M60	Cueing Lever	(1)
68	SFUMB63M61	Cueing Cam	(1)
69	SFUZB63M52	Brake Plate	(1)
70	SFQSB63M52	Felt, Brake Plate	(1)
71	SFQPB63M52	Spring, Brake	(1)
72	SFQPB63M54	Spring, Cueing Cam	(1)
73	SFQHB63M55	Spring, Cueing Cam	(1)
74	SFUMB63M65	Switch Lever	(1)
75	SFUMB63M54	Lever, Drive	(1)
76	SFQSB63M51	Operation	
77	SFUMQ62M61E	Rod, Lever	(1)
78	SFQHQD3N01	Switch Lever Ass'y	(1)
N1	XTN3+6J	Tapping, $\oplus 3 \times 6$	(3)
N2	XTV3+6J	Tapping, $\oplus 3 \times 6$	(4)
N3	XTW3+14QFYR	Tapping, $\oplus 3 \times 14$	(4)
N4	XTV3+8G	Tapping, $\oplus 3 \times 8$	(10)
N5	SFXWC06N02	Washer	(1)
N6	SFXGQ06N01	Screw	(4)
N7	XWC3B	Washer, $\phi 3$	(1)
N8	XTV3+10G	Tapping, $\oplus 3 \times 10$	(6)
N9	XTV3+30J	Tapping, $\oplus 3 \times 30$	(1)
N10	SFXGQ34N02	Screw	(1)
N11	SFXWZ15R51	Washer	(2)

Ref. No.	Part No.	Description	
SCREWS and WASHERS			
N12	XUC3FY	Washer, $\phi 3$	(1)
N13	XYN3+F12	Tapping, $\oplus 3 \times 12$	(2)
N14	SFPEV0Q601	Screw, Cartridge	(1)
N15	SFUXWZ15R56	Pin	(6)
N16	SFXWZ15R51	Washer	(9)
N17	SFUMZ15R61	Washer	(1)
N18	SFXWB63M52	Washer	(2)
N19	XTV3+20J	Screw, $\oplus 3 \times 20$	(1)
ACCESSORIES			
A1 [E, EB, EH, EC]	SFNUDD2S01	Instruction Book	(1)
A1 [EK]	SFNUDD2G01	Instruction Book	(1)
A1 [EG]	SFNUDD2R01	Instruction Book	(1)
A1 [EF]	SFNUDD2F01	Instruction Book	(1)
A1 [Ei]	SFNUDD2i01	Instruction Book	(1)
A1 [XL, XA]	SFNUDD2X01	Instruction Book	(1)
A2	SFDHBD2N01	Phono Cord	(1)
A3	SFDLJ02N11E	Ground Wire	(1)
A4 [EK] 	SFDAC05G02	AC Cord	(1)
A4 [XL] 	SFDAC05L01	AC Cord	(1)
A4 [XA] 	SFDAC05X02	AC Cord	(1)
A4 [other] 	SFDAC05E02	AC Cord	(1)
A5	SFWE212-01	45 Adaotor	(1)
A6 	SFDKI19118	Plug	(1)
PACKING PARTS			
P1 ○	SFHPDD2C01	Carton Box	(1)
P1 [EF] only			
P1 ○	SFHPDD2M01	Carton Box	(1)
P1 [other]			
P1 ◎	SFHPDD2F21	Carton Box	(1)
P1 [EF] only			
P1 ◎	SFHPDD2M21	Carton Box	(1)
P1 [other]			
P2	SFHHBD3N01	Pad, Left	(1)
P3	SFHHBD3N02	Pad, Right	(1)
P4	SFHZBD2N01	Clamper, Tonearm	(1)
P5	SFHZZ15R02	Weight	
P6	SFHZZ15R03	Clamper, Cord	(1)
P7	SFHKB63M01	Clamper, Tonearm	(1)
P8	SFYP75A41	Clamper, Platter	(1)
P9	SFYH60X60	Polyethylene Sheet	(1)
P10	SFYH52X50	Polyethylene Bag, Unit	(1)
P11	SFYH17X16	Polyethylene Bag, Dust Cover	(1)
P12	SFYF32A35	Polyethylene Bag, Cord	(1)
P13	SFHDBD2N01	Turtable mat	
		Pad, Turntable Mat	(1)