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SERVICE
MANUAL

TT-400

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4822 725 50907



marantz®

model TT400

Belt Drive Turntable

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, correct part number has to be specified. The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA

HORNYPHON
Vertriebsgesellschaft GmbH
Wienerbergstrasse 1
A 1101 Wien
Austria
Telex: 132.332

BELGIUM

SVD DIVISION MARANTZ
Industrialaan 1
1720 Groot-Bijgaarden
Belgium
Telex: 24466

CHILE

MARANTZ
DIVISION OF PHILIPS S.A.
AV. Santa Maria, 0760
Casilla 2687
Santiago
Telex: 240.239

DENMARK

MARANTZ
DIVISION OF PHILIPS
SERVICE A/S
Prags Boulevard 80
Postbox 1919
DK-2300 København S
Denmark
Telex: 31201

FINLAND

MARANTZ
DIVISION OF OY PHILIPS Ab
Kaivokatu 8
00100 Helsinki
Finland
Telex: 124811

FRANCE

MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France
Telex: 611651

GERMANY

MARANTZ GERMANY GmbH
Alexanderstrasse 1
2000 Hamburg
Germany

THE NETHERLANDS

Elpro Marantz
Wint Hontlaan 28
3526 KV Utrecht
The Netherlands
Telex: 4748

NORWAY

MARANTZ
DIVISION OF PHILIPS A/S
Sandstuveien 40
0680 Oslo 6
Norway
Telex: 72640

GREAT BRITAIN

MARANTZ AUDIO U.K. Ltd
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain
Telex: 935196

GREECE

SHERTON ELECTRONICS S.A.
P.O.Box 21025
Hippocrates Street 188
Athens 11471
Greece
Telex: 216.795

JAPAN

MARANTZ JAPAN, Inc.
35-1, 7-chome, Sagamiono
Sagamihara-shi, Kanagawa
Japan

KUWAIT

AL ALAMIAH ELECTRONICS
Ussama Building
Fahd al Saleem Street
P.O.Box 23781
Safat-Kuwait
Telex: 22694

ITALY

MARANTZ ITALIANA S.P.A.
Via Chiese, 74
20126 Milano
Italy

SAUDI ARABIA

AL ALAMIAH ELECTRONICS
P.O.Box 5954
University Street
Riyadh 11432
Saudi Arabia
Telex: 401530

SOUTH AFRICA

MARANTZ
DIVISION OF PHILIPS S.A.
Main Road Martindale
P.O. Box. 58088
Newville 21114
South Africa

SPAIN

PHONO S.A.
Ignacio Iglesias 10
Badalona (Barcelona)
Spain
Telex: 59355

SWEDEN

MARANTZ
DIVISION OF PHILIPS
Försäljning AB
Tegeluddsvägen 1
S-115 84 Stockholm
Sweden
Telex: 14060

SWITZERLAND

MARANTZ
Technischer Service
Duenstrasse 3
3186 Düringen
Switzerland

TURKEY

DOGRUOL Ltd.
I.M.C.
6 Blok N°6310
Unkapani
Istanbul
Turkey
Telex: 22085

MALTA

CACHIA & GALEA
Republic Street, 68D
Valetta
Telex: 1682

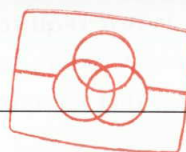
PORTUGAL

MARANTZ
Divisao philips S.A. service
Ourela-carnaxide
2795 LinDA-A-VELHA
Telex: 43906

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

MODEL TT400 BELT DRIVE TURNTABLE



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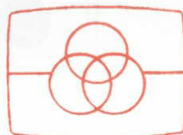
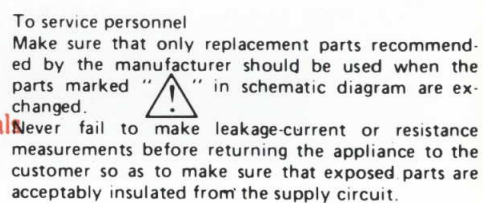
SPECIFICATIONS (Limit)

TURNTABLE			
Motor	DC Servo motor	Output voltage	2.12~4.24 mV at 1kHz 3.54 cm/sec.
Speed	33-1/3 and 45 r.p.m.	Channel balance	Within 2 dB at 1kHz
Wow & Flutter	±0.09 % (WRMS)	Channel separation	More than 20 dB at 1kHz
Rumble	62 dB DIN-B	Load resistance	47 K Ω
Turntable platter	300 mm aluminum alloy die-cast		
TONEARM		Cueing	Oil-damped
Effective length	222 mm	GENERAL	
Usable cartridge	Ortofon MB-10	Power consumption	1.5 watts
CARTRIDGE		Dimensions	420(w) × 105(h) × 336(d) mm
Type	0.6 mil stylus Moving Magnet type	Weight	4.0 kg(net)
Frequency response	20-20,000 Hz		

NOTE: Nominal Specs represent the design specs; all units should be able to approximate these-some will exceed and some may drop slightly below these specs. Limit Specs represent the absolute worst condition which still might be considered acceptable; in no case should a unit perform to less than within any Limit Spec.

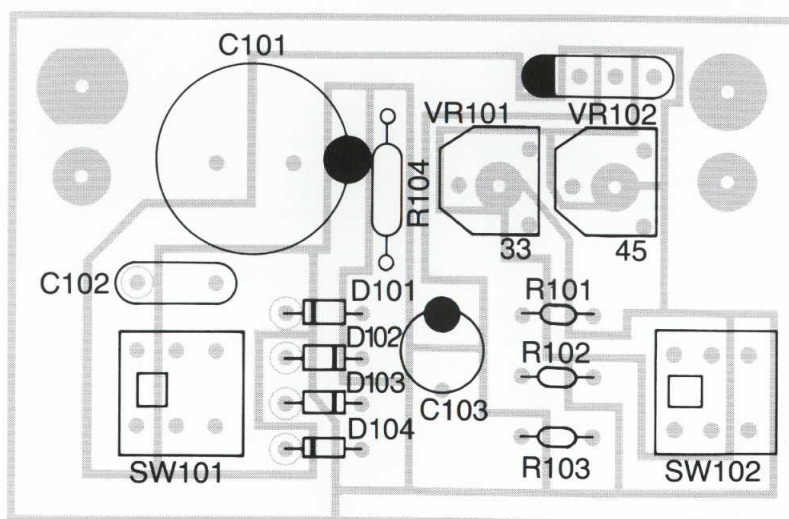
Lubrication of the mechanism is not required. However, whenever a unit is brought in for adjustment or repair, always use good common sense ... clean any dust or dirt from mechanical parts and if moving parts do seem to bind, check for dirt. If necessary, add a very fine film of light-weight specially formulated lubricant.

Specifications and appearance are subject to change for modification without notice.



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3. ADJUSTMENTS

(A) ROTATION SPEED

1. Select "45" rpm by the SPEED Button (2).
2. Adjust speed by turning the Trimming Resistor (VR102) through the hole (A) on the Bottom Ass'y (19).
3. Select "33" rpm by the SPEED Button (2).
4. Adjust speed by turning Trimming Resistor (VR101) through the hole (B) on the Bottom Ass'y (19).

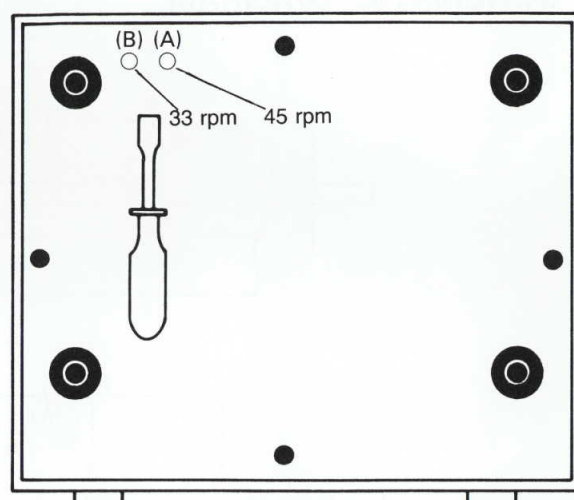


Fig. 1

4. DISASSEMBLY INSTRUCTIONS

- (A) Remove the Dust Cover (11) and fix the Tonearm (23-2) to the arm rest.
- (B) Remove the Turntable Sheet (14), and the Belt (17) from the Pulley. Then remove the Turntable Platter (15).
- (C) Remove the Four Screws (204) on the Bottom Ass'y (19), then remove the Bottom Ass'y (19).

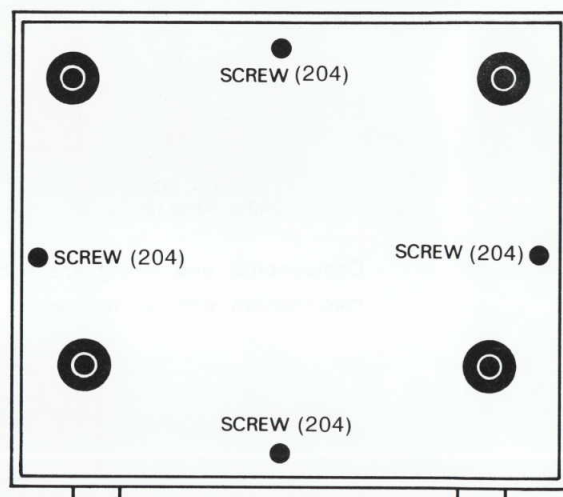
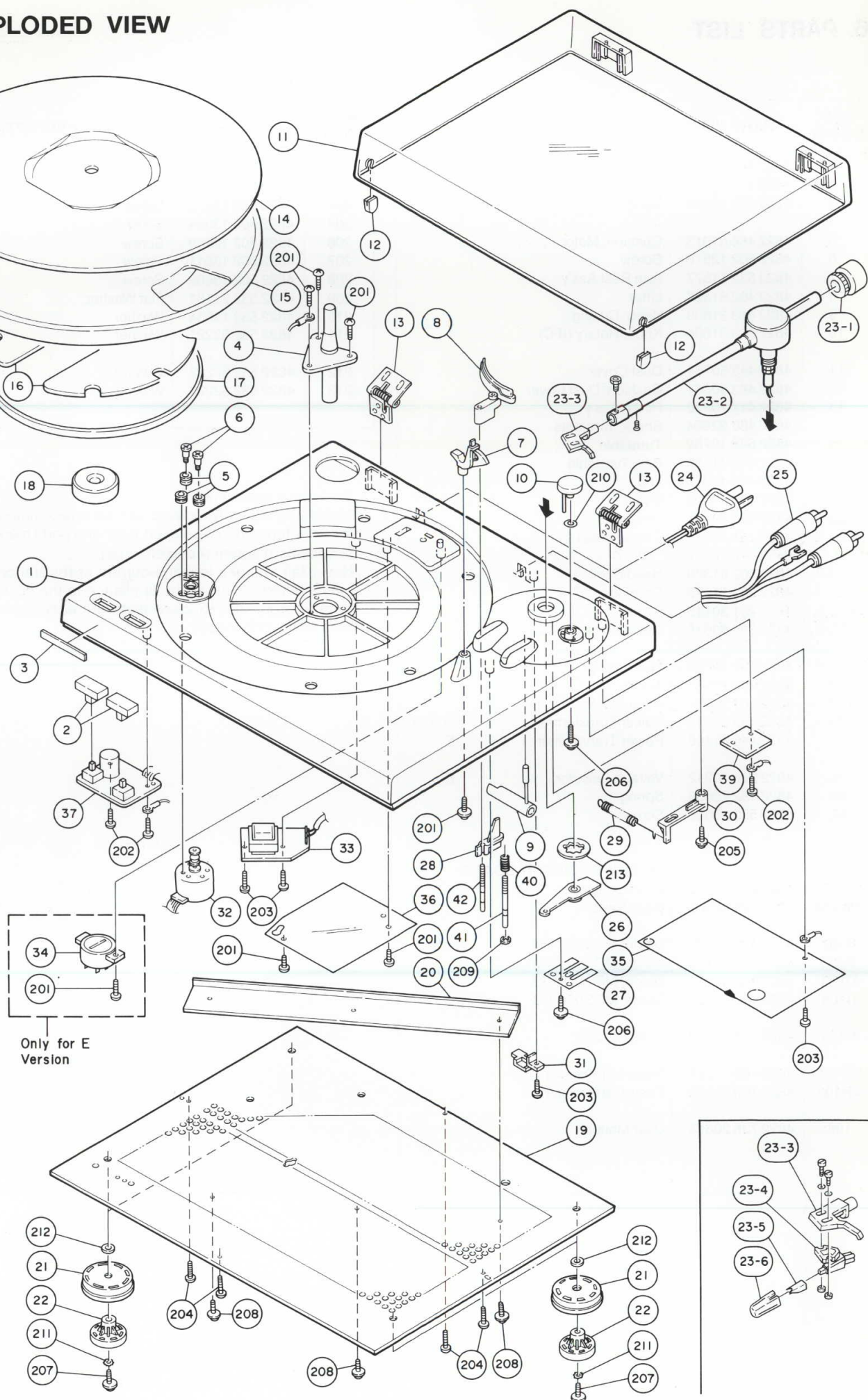


Fig. 2

5. EXPLODED VIEW



6. PARTS LIST

N: for Europe
E: for Europe
A: for Australia
T: for England

REF. DESIG.	PART NO.	DESCRIPTION	
1	4822 444 10156	Cabinet	
2	4822 410 60647	Button	
3	4822 459 10959	Badge	
5	4822 466 61313	Cushion, Motor	
6	4822 502 12876	Screw	
7	4822 532 11577	Arm Rest Ass'y	
8	4822 402 61327	Lifter	
9	4822 413 31603	Knob, Cueing	
10	4822 413 31604	Knob, Rotary (IFC)	
11	4822 443 50764	Dust Cover	
12	4822 462 30301	Cushion, Dust Cover	
13	4822 417 10976	Hinge Ass'y	
14	4822 486 92864	Sheet, Turntable	
15	4822 528 10782	Turntable	
17	4822 358 31058	Belt, Turntable	
21	4822 462 41677	Leg	
22	4822 402 61325	Buffer	
23-1	4822 691 30231	Weight	
23-2	4822 251 70318	Tonearm Ass'y	
23-3	4822 402 61326	Head Shell	
23-4	4822 251 11023	Cartridge	
23-5	4822 251 30145	Stylus	
23-6	4822 530 80635	Retainer	
27	4822 492 70589	Leaf Spring	
29	4822 492 70587	Spring	
32	4822 361 30304	Phono Motor	
△ 33	4822 146 21472	Power Transformer	N, T, A
△ 33	4822 146 21468	Power Transformer	E
△ 34	4822 266 30212	Voltage Selector	E
40	4822 492 70588	Spring	
42	4822 502 13608	Screw	
DC POWER CIRCUIT BOARD			
SW101	4822 276 12909	Push Switch	
SW102	4822 276 12909	Push Switch	
D101	4822 130 81722	Diode, MPG06B-G3	
D102	4822 130 81722	Diode, MPG06B-G3	
D103	4822 130 81722	Diode, MPG06B-G3	
D104	4822 130 81722	Diode, MPG06B-G3	
R104	4822 113 90142	Fuse Resistor	
VR101	4822 100 11558	Trimming Resistor	
VR102	4822 100 11559	Trimming Resistor	
106	4822 736 20613	User Manual	

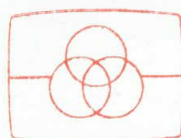
REF. DESIG.	PART NO.	DESCRIPTION
201	4822 502 12229	Screw
202	4822 502 12231	Screw
203	4822 502 12232	Screw
204	4822 502 13054	Screw
206	4822 502 12929	Screw
207	4822 502 13611	Screw
208	4822 502 13609	Screw
209	4822 532 21181	Flat Washer
210	4822 532 11534	Washer
211	4822 532 52221	Washer
212	4822 532 52222	Washer
213	4822 532 52223	Washer

To service personnel

Make sure that only replacement parts recommended by the manufacturer should be used when the parts marked "!" in schematic diagram are exchanged.



Never fail to make leakage-current or resistance measurements before returning the appliance to the customer so as to make sure that exposed parts are acceptably insulated from the supply circuit.



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