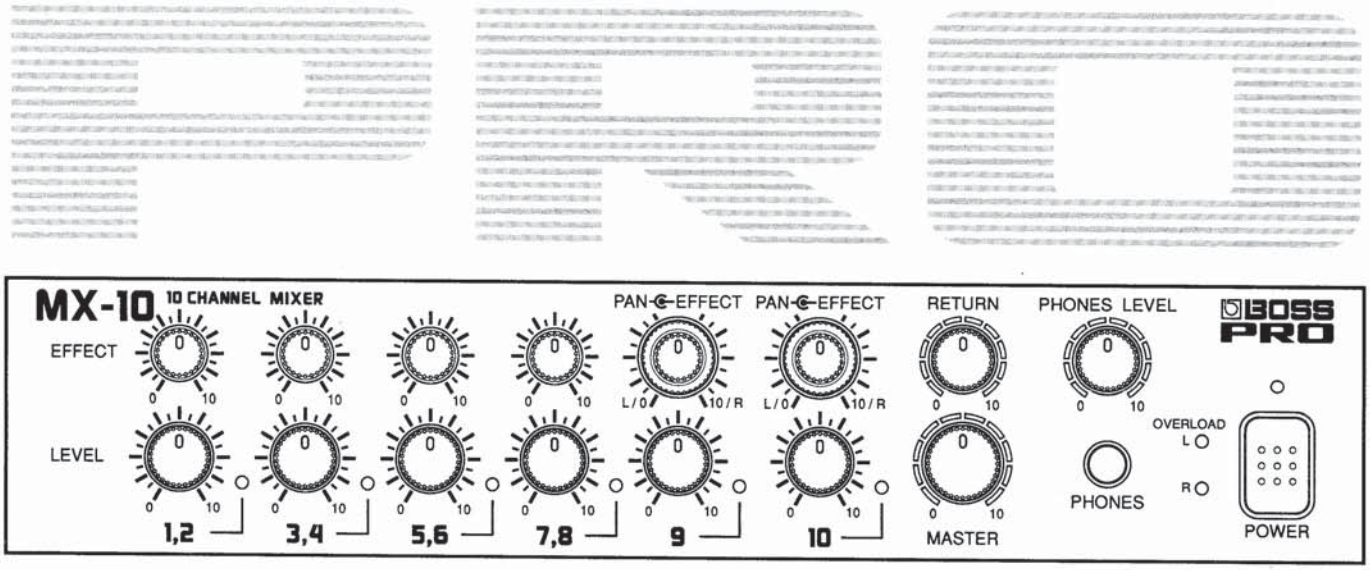
BOSS

MX-10 10 CHANNEL MIXER

Owner's Manual



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Thank you and congratulations on your choice of the BOSS MX-10 Mixer.
To fully understand the mixer's operation, and to insure years of trouble-free service, please take the time to read this manual in its entirety.

FEATURES

- The MX-10 is a compact (half-rack sized) 10-channel mixer equipped with Effects Send/Return circuits.
- The Overload indicators assure distortion-free output.
- The MX-10 includes two microphone inputs in addition to the 10 line inputs.
- Equipped with a headphone jack.
- The MX-10 is easily installed in a standard [EIA] 19 inch rack using the optional RAD-50 Rack Mount Adaptor.

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IMPORTANT NOTES

When using an AC adaptor, be sure that it is one supplied by the manufacturer. Use of any other power adaptor could result in damage, malfunction, or electric shock.

POWER SUPPLY

- When making any connections with other devices, always turn off the power to all equipment first; this will help prevent damage or malfunction.
- Do not use this unit on the same power circuit with any device that will generate line noise, such as a motor or variable lighting system.
- The power supply required for this unit is shown on its nameplate. Ensure that the line voltage of your installation meets this requirement.
- Avoid damaging the power cord; do not step on it, place heavy objects on it etc.
- When disconnecting the AC adaptor from the outlet, grasp the plug itself; never pull on the cord.
- If the unit is to remain unused for a long period of time, unplug the power cord.

PLACEMENT

- Do not subject the unit to temperature extremes (eg. direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas or areas that are subject to high vibration levels.
- Using the unit near power amplifiers (or other equipment containing large transformers) may induce hum.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.

MAINTENANCE

- For everyday cleaning wipe the unit with a soft, dry cloth (or one that has been slightly dampened with water). To remove stubborn dirt, use a mild neutral detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the risk of discoloration and/or deformation.

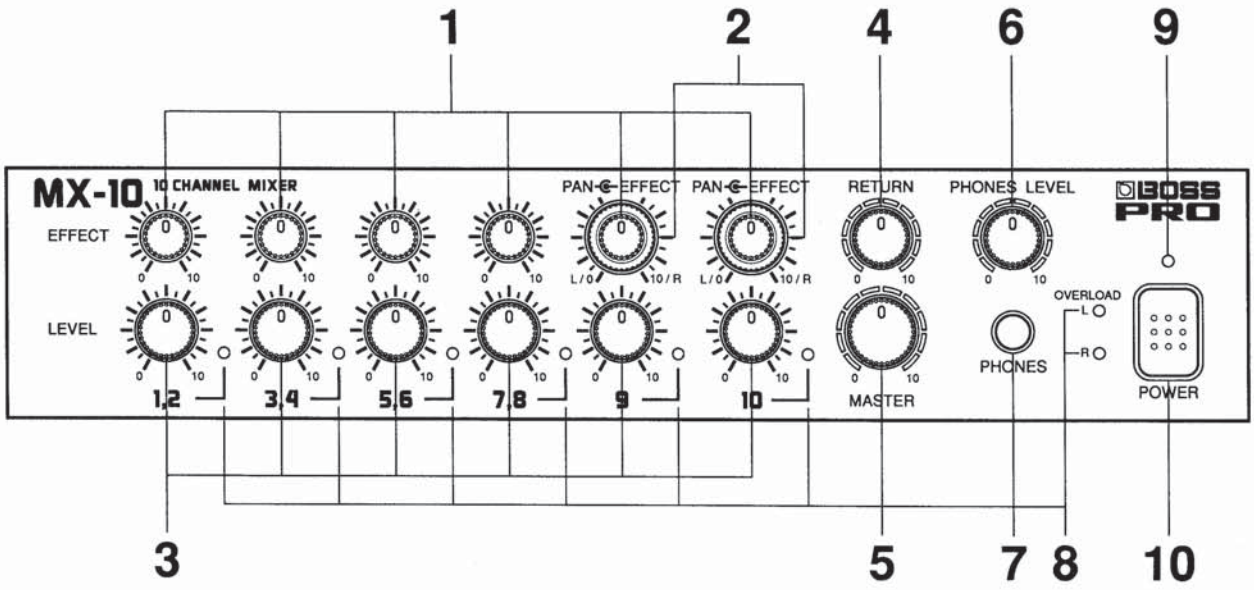
ADDITIONAL PRECAUTIONS

- Protect the unit from strong impact.
- Do not allow objects or liquids of any kind to penetrate the unit. In the event of such an occurrence, discontinue use immediately. Contact qualified service personnel as soon as possible.
- Before using the unit in a foreign country, consult with qualified service personnel.
- Should a malfunction occur (or if you suspect there is a problem) discontinue use immediately. Contact qualified service personnel as soon as possible.
- To prevent the risk of electric shock, do not open the unit or its AC adaptor.

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PANEL DESCRIPTIONS

< Front Panel >



1.EFFECT (Effects Send Knobs)

Control the output level from the Send jack (after the signals have been received from the input channels). Clockwise rotation increases the output level.

2.PAN (Panpot Knobs)

Used to control the output position (left or right) of the signals from channels 9 and 10. With a knob at the center position, the sound will appear to be centered between the speakers.

3.LEVEL (Input Level Knobs)

Control the input level of each channel. Clockwise rotation increases the volume. Should the OVERLOAD indicators light frequently, adjust the channel LEVEL knobs until they light only on input peaks.

4.RETURN (Effects Return Knob)

Controls the signal level (input to the Return Jacks L(MONO)/R) from an external effects processor. The effects level increases as the knob is rotated clockwise.

5.MASTER (Master Volume Knob)

Controls the overall output level. Should the OVERLOAD indicators light frequently, adjust the MASTER knob until they light only on input peaks.

6.PHONES LEVEL (Headphone Level Knob)

Controls the headphone volume.

The headphone volume is not affected by the MASTER knob.

7.PHONES (Headphone Jack; mini-plug)

Accepts connection of stereo headphones.

8.OVERLOAD Indicators (L/R)

Light when the input level is excessive.
Should the indicators light frequently, adjust the channel LEVEL knobs and the MASTER knob until they light only on input peaks.

These indicators light at 6 dB below the clipping level (the point at which distortion occurs).

9.Power Indicator

Lights when the power is turned ON.

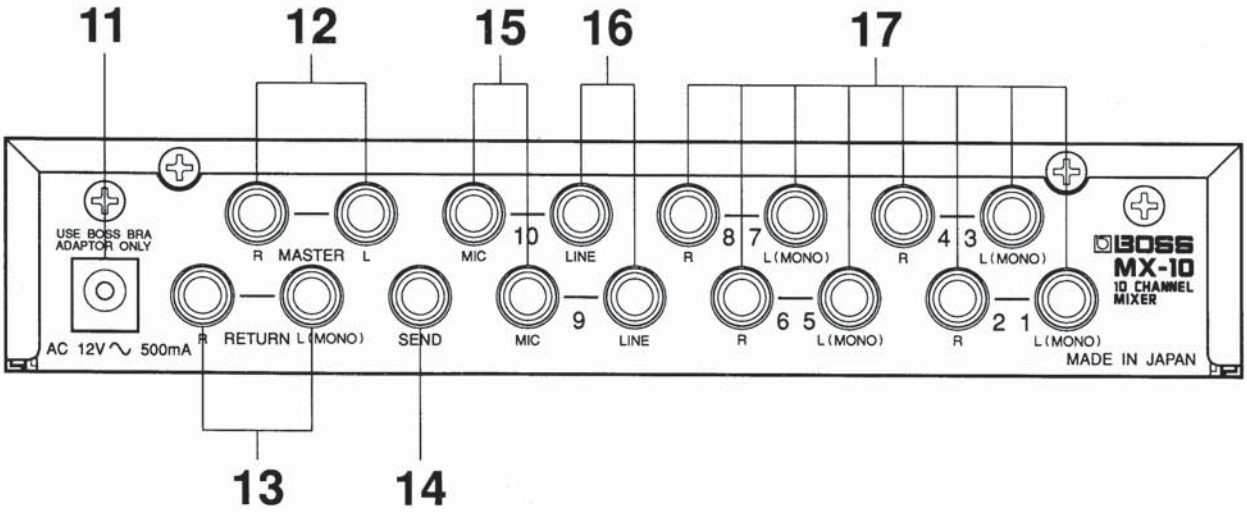
10.POWER Switch

Turns the power ON and OFF.

Be sure the volume on your amplifier is at "0" before turning the mixer on or off.

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< Rear Panel >



11.AC Adaptor Jack

Accepts connection of the supplied AC adaptor (BOSS BRA-120 , 220 or 240).

12.MASTER Output Jacks (L/R)

These jacks provide output of the mixed signals. This output can be connected to a power amplifier, another mixer, etc.

13.RETURN Jacks (L(MONO)/R)

These jacks accept return signals from an external effects processor (such as delay or reverb).

If the input is monaural, use the L(MONO) jack.

14.SEND Jack

This jack outputs signals to an external effects processor (delay, chorus, reverb etc.).

15.MIC Input Jacks

These jacks accept connection of a microphone. Signals that have been input through these jacks can be panned to the left or right using the appropriate Panpot (PAN) knob.

16.LINE Input Jacks

These jacks accept the output signals from electronic musical instruments or other units having a monaural output. Signals input through these jacks can be panned to the left or right using the appropriate Panpot (PAN) knob.

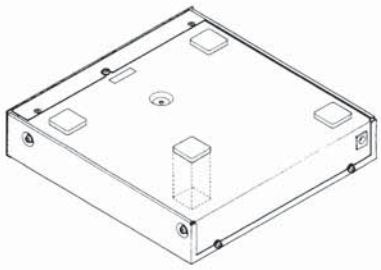
If the LINE and MIC inputs of one channel are used simultaneously, the MIC input will take priority.

17.Input Jacks (L(MONO)/R)

Electronic musical instruments, tape recorders, CD players, or other equipment can be connected to these inputs.

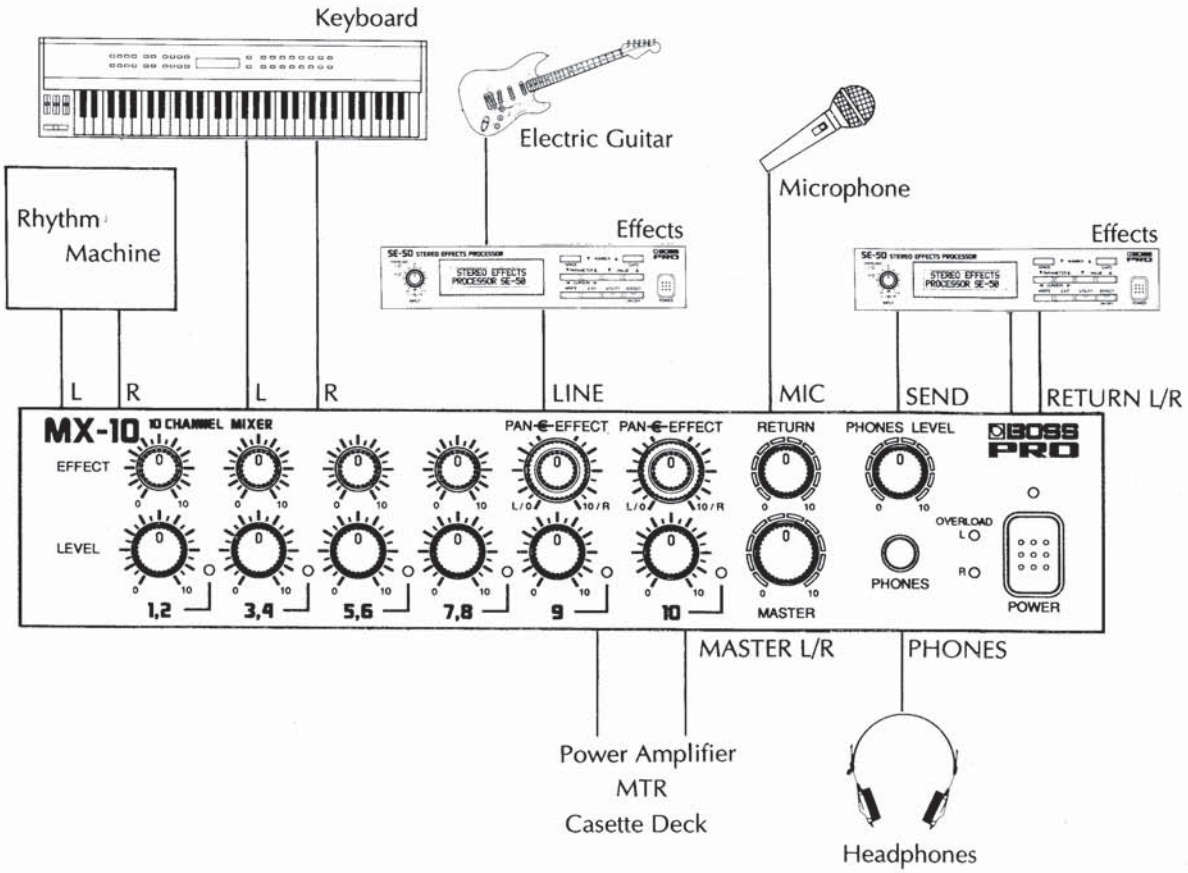
If the device is monaural, use the L(MONO) jack.

When using the unit without the optional Rack Mount Adaptor RAD-50, please attach the rubber feet as show below.

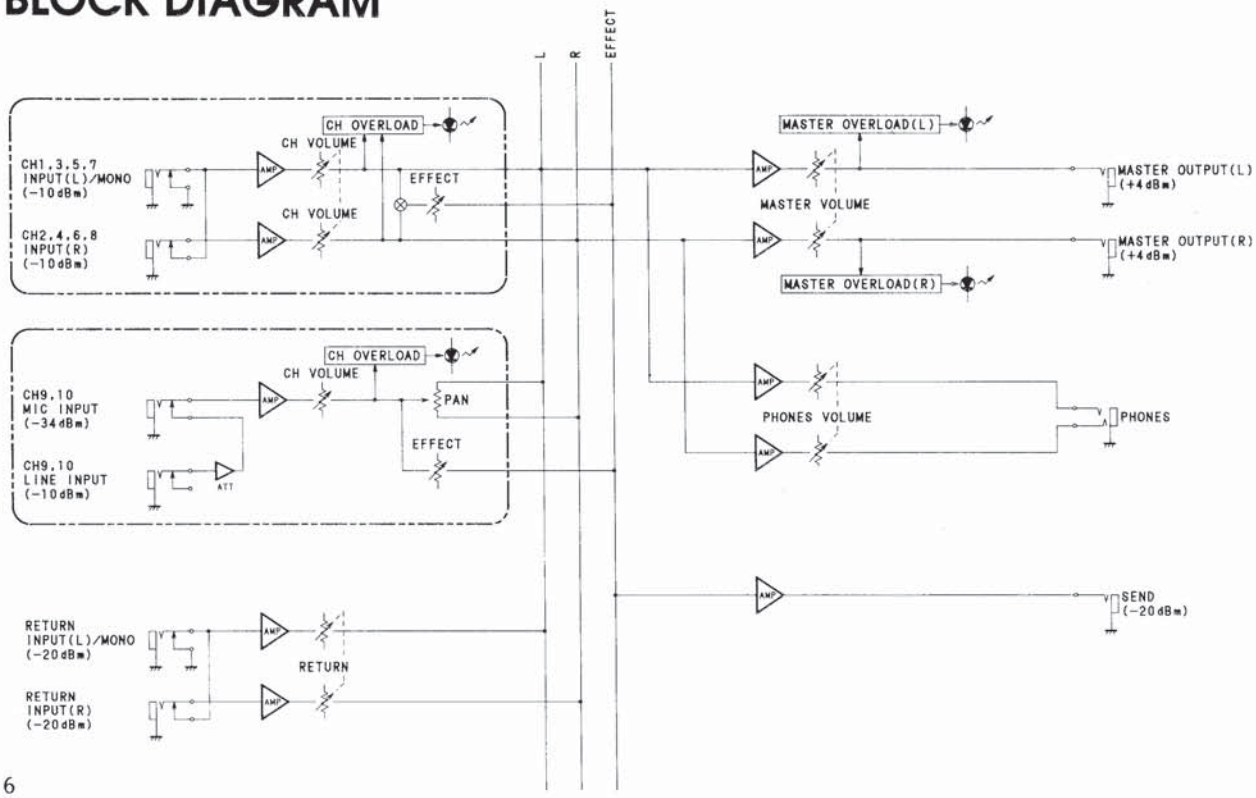


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MAKING CONNECTIONS



BLOCK DIAGRAM



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SPECIFICATIONS

MX-10:10 Channel Mixer

Frequency Response
Line :20Hz to 40kHz +1/-3dB
Mic :200Hz to 40kHz +1/-3dB

Nominal Input Level
Line :-10dBm
Mic :-34dBm
Effect Return :-20dBm

Input Impedance
Line :18kΩ
Mic :1kΩ
Effect Return :22kΩ

Nominal Output Level
Master :+4dBm
Effect Send :-20dBm

Output Impedance
Master :600Ω
Effect Send :600Ω

Recommended Load Impedance
Master :10kΩ or greater
Effect Send :10kΩ or greater
Headphones :30Ω or greater

Headphone Output
0.5mW (33Ω load)

Total Harmonic Distortion
0.05% or less
(line , 20Hz to 40kHz at nominal output)

Equivalent Input Noise Level
-105dBm (input terminated with 600Ω, IHF-A, Typ.)

Controls
Effects Send Knobs X6
Panpot Knobs X2
Input Level Knobs X6
Effects Return Knob
Master Volume Knob
Headphone Level Knob
Power Switch

Indicators
Overload Indicators X8
Power Indicator

Connectors
Input Jacks L(MONO)/R X4
Mic Input Jacks X2
Line Input Jacks X2
Send Jack
Return Jacks L(MONO)/R
Master Output Jacks L/R
AC Adaptor Jack
Headphone Jack

Power Supply
AC12V:AC Adaptor

Current Draw
500mA

Dimensions
218 (W) X 235 (D) X 44 (H) mm
8-5/8 (W) X 9-1/4 (D) X 1-3/4 (H) inches

Weight
1.45kg / 3 lbs 4oz (except the AC Adaptor)

Accessories
AC Adaptor BRA-120 , 220 or 240
Foot Rubber X4
Owner's Manual

Option
Rack Mount Adaptor RAD-50

0dBm=0.775Vrms

*In the interest of product improvement, the specifications of this unit are subject to change without prior notice.

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Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

U. S. A.
Roland Corporation US
7200 Dominion Circle
Los Angeles, CA. 90040-3647,
U. S. A.
TEL:(213)685-5141

CANADA
Roland Canada Music Ltd.
(Head Office)
5480 Parkwood Way
Richmond B. C., V6V 2M4
CANADA
TEL:(604)270-6626

Roland Canada Music Ltd.
(Montreal Office)
9425 Transcanadienne Service
Rd. N., St Laurent, Quebec
H4S 1V3,
CANADA
TEL:(514)335-2009

Roland Canada Music Ltd.
(Tronto Office)
346 Watline Avenue,
Mississauga, Ontario L4Z 1X2,
CANADA
TEL:(416)890-6488

AUSTRALIA
Roland Corporation
(Australia) Pty. Ltd.
(Head Office)
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
TEL:(02)982-8266

Roland Corporation
(Australia) Pty. Ltd.
(Melbourne Office)
50 Garden Street, South Yarra,
Victoria 3141
AUSTRALIA
TEL:(03)241-1254

UNITED KINGDOM
Roland(U.K.) Ltd.
Rye Close
Ancells Business Park
Fleet, Hampshire GU13 8UY,
UNITED KINGDOM
TEL:0252-816181

Roland(U.K.) Ltd.,
Swansea Office
Atlantic Close, Swansea
Enterprise Park, Swansea,
West Glamorgan SA79FJ,
UNITED KINGDOM
TEL:(0792)700-139

ITALY
Roland Italy S. p. A.
Viale delle Industrie 8
20020 ARESE MILANO
ITALY
TEL:02-93581311

SPAIN
Roland Electronics de
España, S. A.
Calle Bolivia 239
08020 Barcelona, SPAIN
TEL:93-308-1000

GERMANY
Roland Elektronische
Musikinstrumente HmbH
Handelsgesellschaft mbh.
Oststrasse 96, 2000
Norderstedt,
GERMANY
TEL:040/52 60 090

FRANCE
Musikengro
102 Avenue Jean-Jaures
69007 Lyon Cedex 07
FRANCE
TEL:(7)858-54 60

Musikengro (Paris Office)
Centre Region Parisienne
41 rue Charles-Fourier,
94400 Vitry SUR/SEINE
FRANCE
TEL:(1)4680 86 62

BELGIUM/HOLLAND/ LUXEMBOURG
Roland Benelux N. V.
Houtstraat 1
B-2260 Oevel-Westerlo
BELGIUM
TEL:(0032)14-575811

DENMARK
Roland Scandinavia A/S
Langebrogade 6 Box 1937
DK-1023 Copenhagen K.
DENMARK
TEL:31-95 31 11

SWEDEN
Roland Scandinavia A/S
Danvik Center 28 A, 2 tr.
S-131 30 Nacka
SWEDEN
TEL:08-702 00 20

NORWAY
Roland Scandinavia Avd.
Norge
Lilleakerveien 2
Postboks 95 Lilleaker
N-0216 Oslo 2
NORWAY
TEL:02-73 00 74

FINLAND
Fazer Musik Inc.
Länsituulentie POB 169,
SF-02101 Espoo
FINLAND
TEL:0-43 50 11

NEW ZEALAND
Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3,
NEW ZEALAND
TEL:(09)3098-715

SWITZERLAND
Musitronic AG
Gerberstrasse 5, CH-4410
Liestal,
SWITZERLAND
TEL:061/921 16 15

Roland CK (Switzerland) AG
Postfach/Hauptstrasse 21
CH-4456 Tenniken
SWITZERLAND
TEL:061/98 60 55
Repair Service by Musitronic AG

AUSTRIA
E. Dematte &Co.
Neu-Rum Siemens-Strasse 4
A-6021 Innsbruck Postfach 591
AUSTRIA
TEL:(0512)63 451

GREECE
V. Dimitriadis & Co. Ltd.
2 Phidiou Str., GR 106 78
Athens,
GREECE
TEL:1-3620130

PORTUGAL
Casa Caius Instrumentos
Musicais Lda.
Rua de Santa Catarina 131
Porto,
PORTUGAL
TEL:02-38 44 56

HUNGARY
Intermusica Ltd.
Warehouse Area 'DEPO'
Torokbalint, Budapest
HUNGARY
TEL:(1)1868905

ISRAEL
D.J.A. International Ltd.
25 Pinsker St., Tel Aviv
ISRAEL
TEL:972-3-5283015

CYPRUS
Radex Sound Equipment Ltd.
17 Panteli Katelari Str.
P.O.Box 2046, Nicosia
CYPRUS
TEL:453426, 466423

TURKEY
Barkat Sanayi ve Ticaret
Siraselviler Cad. 86/6
Taksim Istanbul,
TURKEY
TEL:149 93 24

EGYPT
Al Fanny Trading Office
9, Ebn Hagar Askalany
Street, Ard El Golf,
Heliopolis, Cairo,
EGYPT
TEL:2917803-665918

BRAZIL
Roland Brasil Ltda.
R. Alvarenga 591
CEP-05509 Sao Paulo
BRAZIL
TEL:(011)813-7967
Repair Service for Roland and Rhodes products

Oliver do Brasil S.A.
Instrumentos Musicais
Av. Ceci. No.578 Centro
Empresarial Tambore
Barueri SP CEP 06400
BRAZIL
TEL:(011)709-1267
Repair Service for BOSS products

MEXICO
Case Veerkamp, s.a. de c.v.
Mesones No. 21 Col. Centro
MEXICO D.F. 06080
TEL:(5)709-3716

La Casa Wagner de
Guadalajara s.a. de c.v.
Av. Corona No. 202 S.J.
C.P.44100
Guadalajara, Jalisco
MEXICO
TEL:(36)13-1414

ARGENTINA
Netto S.A.
Venezuela 1433
1095 Buenos Aires
ARGENTINA
TEL:37-1632

HONG KONG
Tom Lee Music Co., Ltd.
Service Division
22-32 Pun Shan Street,
Tsuen Wan, New
Territories,
HONG KONG
TEL:415-0911

KOREA
Cosmos Corporation
Service Station
261 2nd Floor Nak-Won arcade
Jong-Ro ku, Seoul,
KOREA
TEL:(02) 742 8844

SINGAPORE
Swee Lee Company
Bras Basah Complex #03-23
Singapore 0178
SINGAPORE
TEL:3367886

THAILAND
Theera Music Co., Ltd.
330 Verng Nakorn Kasem, Soi
2, Bangkok 10100,
THAILAND
TEL:2248821

MALAYSIA
Syarikat Bentley
No.142, Jalan Bukit
Bintang 55100 Kuala
Lumpur, MALAYSIA
TEL:2421288

INDONESIA
PT Galestra Inti
Kompleks Perkantoran Duta
Merlin Blok C/59
Jl. Gajah mada No.3-5
Jakarta 10130
INDONESIA
TEL:(021) 354604, 354606

TAIWAN
Siruba Enterprise (Taiwan)
Co., LTD.
Room. 5, 9fl. No. 112
Chung Shan N.Road Sec.2
Taipei, TAIWAN, R.O.C.
TEL:(02)5364546

SOUTH AFRICA
That Other Music Shop
(PTY) Ltd.
256 Bree Street, Johannesburg
2001 Republic of
South Africa
TEL:337-6573

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre
Claremont 7700 Republic of
South Africa
TEL:021-64-4030

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