

EGNATER™

BY ROCKTRON

U S E R ' S M A N U A L

TOL
ie4
TUBE PREAMP

ROCKTRON
C O R P O R A T I O N

May be covered by one or more of the following: U.S. Patents #4538297, 4647876, 4696044, 4745309, 4881047, 4893099, 5124657, 5263091, 5288527, 5319713, 5353201, 5402498 and 5493617. Other patents pending. Foreign patents pending.



Your Rocktron EGNATER TOL-series amplifier has been tested and complies with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC, 73/23/EEC

Standard(s): EN55013, EN50082-1, EN60065

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input connections. This will help insure compliance with the Directive(s).

SAFETY INSTRUCTIONS

All safety and operating instructions must be read before operating this equipment. Instructions should be retained for future use.

All warnings on the equipment and in the operating instructions should be adhered to and all operating instructions should be followed.

This equipment should be situated so that its location or position does not interfere with proper ventilation. This equipment should be kept away from heat sources.

This equipment should not be used near water - for example, near a bathtub, laundry tub, in a wet basement, near a swimming pool, etc.

The power cord to this equipment should be routed so that it is not likely to be walked on or pinched by items placed upon or against it. Care should be taken as to not overload any one AC power outlet with too many appliances. The power cord should be unplugged from the outlet when the equipment is left unused for a long period of time.

This unit should be connected to a power supply only of the type recommended by the manufacturer as described in the operating instructions.

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through any openings.

This unit should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged, or
- B. Objects have fallen, or liquid has been spilled into the unit, or
- C. The unit has been exposed to rain or water, or
- D. The unit does not appear to operate normally or exhibits a marked change in performance, or
- E. The unit has been dropped, or the enclosure damaged.

DO NOT ATTEMPT TO SERVICE THE EQUIPMENT. THIS EQUIPMENT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL ONLY. DO NOT REMOVE THE COVER FROM THIS EQUIPMENT AT ANY TIME. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME. DO NOT TAMPER WITH THE INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID WARRANTY SERVICE TO THIS EQUIPMENT, AS WELL AS CAUSING SHOCK HAZARD.

WARRANTY AND SERVICE

U.S.A.

- All parts and workmanship of this Rocktron product (excluding tubes and speakers, where applicable) are fully guaranteed to be free of defects under normal use and service for a period of ONE year from date of purchase.
- The tubes and/or speakers on this Rocktron product are guaranteed to be free from defects under normal use for a period of 90 DAYS from the date of purchase.
- This warranty will remain in effect until the original expiration date, regardless of whether or not the product is re-sold in the interim.
- We suggest that you fill out the warranty registration card enclosed herein, and return it to Rocktron, although it is not required for the warranty to take effect. We do, however, require that the dated proof of purchase be retained throughout the warranty period.
- Any damage resulting from mis-use or failure to follow instructions and precautions as stated in the product manual will void this warranty.
- Should this Rocktron product require repair, Rocktron will assume responsibility for repair service. **Do not return the product to the dealer.** Simply re-pack the unit, sending along a description of the problem to:

Rocktron Corporation
2870 Technology Drive
Rochester Hills, MI 48309
Attn: Repair Dept.

- All shipping charges must be fully prepaid.
- This warranty is void if the original serial number has been altered or removed, or if the unit has been altered in any way.
- Rocktron reserves the right to make changes in design and/or improvements upon their products without any obligation to include those changes in any products previously manufactured.
- There is no other express warranty on goods covered by this agreement.

At Rocktron, we have tried to keep our warranty and service policies simple and easy to use. Should you encounter any problems with your Rocktron product, you may want to first contact our Customer Support Department at (248) 853-5150.

Should you require service, our Service Department is ready to provide quick, friendly service. Please be sure to provide an informative description of your problem if you return your product to Rocktron for servicing. Also, be sure to include your name, address and phone number where our service technicians can reach you, if necessary.

We pride ourselves on providing the best service and repair policies in the industry!

Please see reverse side for information on acquiring warranty repair service in Canada and other countries.

Canada

For warranty and service in Canada, please contact one of the following authorized Rocktron Service Centers.

Calgary

Ranger Audio Enterprises
3703 1 Street N.E.
Calgary, Alberta
T2E3E1
(403) 277-1615

Delta

The Audio Doctor
1157 56th St.
Delta, B.C. V4L 2A2

Edmonton

Edmonton Audio Works Ltd.
17310 - 108th Avenue
Edmonton, Alberta
T5S 1E8

Halifax

Musicstop Limited
6065 Cunard Street
Halifax, Nova Scotia
B3K 1E6
(902) 422-6571

Montreal

Gemini Electronics
2222 Ontario St. East
Suite 302
Montreal, Quebec
H2K 1V8
(514) 523-1507

Montreal

Italmelodie Inc.
274 Jean Talon Est
Montreal, Quebec
H2R-1S7
(514) 273-3224

Quebec

D.N.R. Electronique
57 Marie De L'Incarnation
Quebec, QB, G1N 3E9
(418) 681-5055

Toronto

Long and McQuade Ltd.
925 Bloor St. West
Toronto, Ontario
M6W 1L5
(416) 588-7886

Toronto

Steve's Music Store
Service Department
138 Peter Street
Toronto, Ontario
M5V 2H2
(416) 593-8889

Vancouver

Vancouver Studiotech Service
275A Evergreen Drive
Port Moody, B.C., V3H 1S1

Windsor

Leone's Music World
472 Tecumseh Road E.
Windsor, Ontario
N8X 2R8
(519) 258-6161

Others

Please consult your Rocktron distributor for warranty and service policies. These policies may vary in each country.

Andorra

Marrugat
Av. Riberaigua 12
Andorra La Vella
Principality of Andorra

Argentina

Manny's Musical S.A.
Bartolome Mitre 1250
1036 Buenos Aires

Australia

Down Under Musical Imports
141 Parramatta Rd.
Annandale 2038
Sydney Australia

Brazil

Mass International
Rua Jose Scussiato 210-
Seminario
Cep 80740-580
Curitiba-PR

Canary Islands

Musical Orotava S.L.
Cl Tomas Rerez 14
38300 La Orotava
Islas Canarias

Croatia

Total Music
Kosimikova 21
1000 Zagreb

Czech Republic
Harmony Music S.R.O.
Sladkovskeho 422
530 02 Pardubice

Denmark

M.I. Musik ApS
Jagtvej 115, E 2
DK 2200 Copenhagen

England

BLT Industries Limited
Newlyn Road,
Cradley Heath,
West Midlands
B64 6BE

Finland

Musamaallima Ky
Ohrahuhdantie 2
00680 Helsinki

France

IML
Parc D'affaires De La
Bandonniere
4 Rue Maurice Audibert
69800 Saint Priest

Germany

Melnl Musikinstrumente
Postfach 1549
An den Herrenbergen 24
91413 Neustadt

Greece

Anastasios Liliolos & Co.
33, Al. Papnastasiou Av.
546 39 Thessaloniki

Hong Kong

Nelson Piano
98 Hak Post
Mongkok Kowloon

Indonesia

Wisma Musik Melodia
JL NGAGEL JAYA No. 12,14
Surabaya 60283

Italy

Meazzi S.P.A.
Via G. Amendola, 51
20037 Paderno Dugnano
Milano

Japan

Nihon Electro Harmonix
3-37 Hara Machi
Shinjuku-ku
Tokyo

Korea

Loff Corporation
505, 4F Won-Hyung B/D 96-4
Ssangmun-Dong, Tobong-Gu
Seoul Korea 132-033

Netherlands

Papen & Bongaerts Music, Ltd.
Helmusselaan 12
6041 AW Roermond

Norway

Carvin Norge
Skjppergata 21
0154 Oslo

Portugal

Caffi S.A Instruments
Rua Da Constituicao 281
4200 Portugal

Slovenia

Ideal Music
Pristaniska 14
Koper Capodistria
Slovenia 66000

Spain

Bosco
Fernandez De La Hoz, 78
28003 Madrid

Sweden

Musikborsen/Musichouse GP
Backa Bergogaten 16
422 46 Hisingrs Backa

Switzerland

Levinson Ltd.
Gewerbstrasse 24
CH-4123 Allschwil

Taiwan

Sea Power Co., Ltd
7FNO, 36 Wu-Chan 7th Rd.
Wu-Ku Industrial Zone
Taipei County

Thailand

Kit Chareon Musical Ltd.
73 Asadang Road
Bangkok 10200

Turkey

Cangoz Ticaret
Zeytinlik Mah, Yakut SK
No. 26/D, Bakirkoy
Istanbul

WARRANTY AND SERVICE

Certificate of Authenticity

This certifies that this product
containing the serial number

is an original
EGNATER BY **ROCKFON**
product that meets the product
specifications and performance requirements
for the "Tone Of Life"
limited edition standards.

Signature

Bruce Egnater

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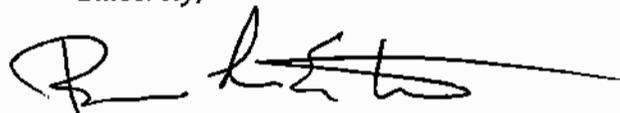
Forward

Congratulations on your purchase of the EGNATER IE4 by Rocktron.

This is a very exciting time for both myself and Rocktron. Rocktron has earned a reputation for being on the cutting edge of guitar processor technology and producing some of the most innovative products in the industry. I'm flattered to say that Egnater Amplification has been producing what have been reputed to be some of the finest sounding tube guitar amplifiers in the world.

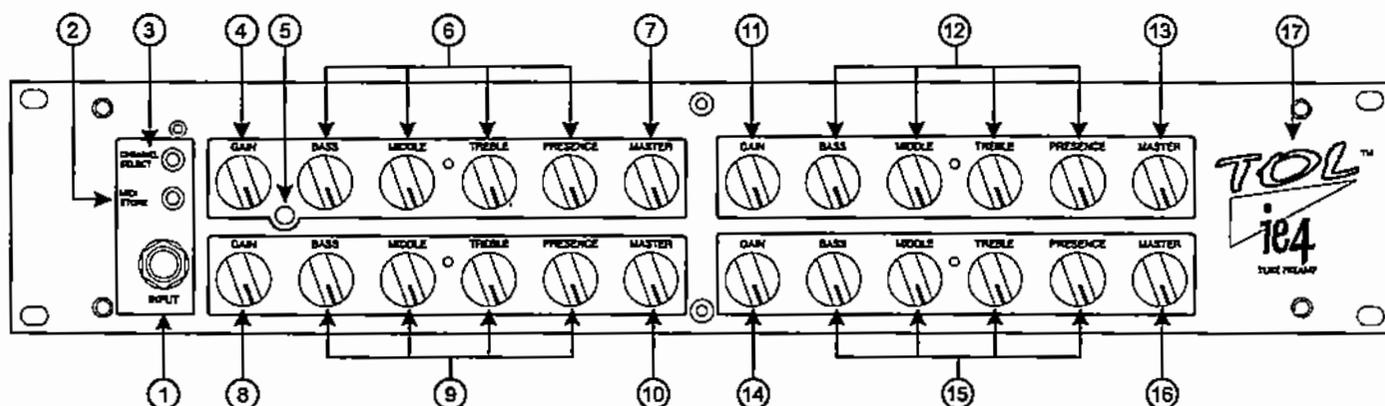
This collaboration between Rocktron and Egnater will open doors for new innovative ideas, new technologies and new products that will surely earn their place in the "Guitar Amp Hall of Fame" (if it existed). The IE4 is the first Egnater by Rocktron all-tube preamp to be produced at the Rocktron factory, and I, for one, am very pleased with the results. I trust you are also.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bruce Egnater', with a long horizontal flourish extending to the right.

Bruce Egnater

Front Panel



- ① **INPUT jack**
This 1/4" jack accepts the output from the guitar.
- ② **MIDI STORE switch**
This pushbutton switch is used to store a selected preset. See the MIDI section on page 7 for additional details.
- ③ **CHANNEL SELECT switch**
Selects one of the four channels as desired.

Channel 1: Clean/American

- ④ **GAIN control**
This control adjusts the amount of drive for Channel 1. Higher settings of this control increase distortion and sustain.
- ⑤ **BRIGHT switch**
Three-position high-end boost. (center = off, left = bright, right = brighter)
- ⑥ **BASS, MID, TREBLE and PRESENCE controls**
A finely-tuned version of the classic bridge-T configuration as found in many of the popular guitar amps throughout history. The PRESENCE control adds yet another dimension to this powerful group of controls. Experiment...there are many great TONES at your fingertips!
- ⑦ **MASTER control**
Adjusts the overall volume of the channel.

Channel 2: SRV/Vintage American

- ⑧ **GAIN control**
This control adjusts the amount of drive for Channel 2. Higher settings of this control increase distortion and sustain.
- ⑨ **BASS, MID, TREBLE and PRESENCE controls**
A finely-tuned version of the classic bridge-T configuration modeled after the American amps of the 50's and early 60's. Add the PRESENCE control for even more "tweakability". Jump right in...there are no "bad" tones here!
- ⑩ **MASTER control**
Adjusts the overall volume of the channel.

Channel 3: Classic British Crunch

- ⑪ **GAIN control**
This control adjusts the amount of drive for Channel 3. Higher settings of this control increase distortion and sustain.
- ⑫ **BASS, MID, TREBLE and PRESENCE controls**
A true classic 4-band British EQ.
- ⑬ **MASTER control**
Adjusts the overall volume of the channel.

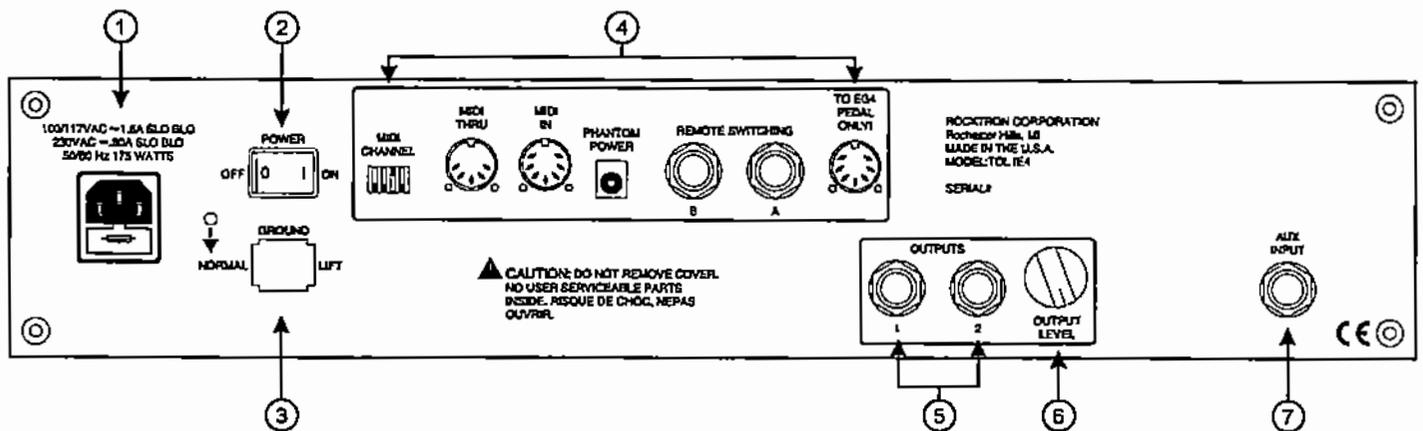
Channel 4: Unleash the Beast

- ⑭ **GAIN control**
This control adjusts the amount of drive for Channel 4. Higher settings of this control increase distortion and sustain.
- ⑮ **BASS, MID, TREBLE and PRESENCE controls**
A true classic 4-band British EQ.
- ⑯ **MASTER control**
Adjusts the overall volume of the channel.

TOL

- ⑰ **The "TONE OF LIFE"**

Rear Panel

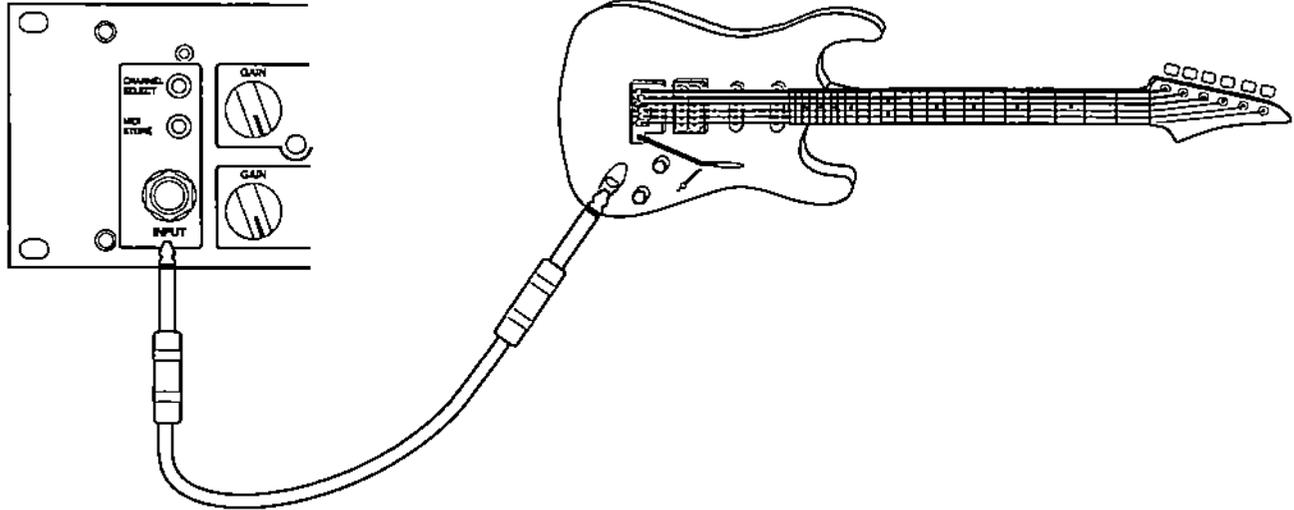


- 1** POWER INLET module
The Power Inlet module accepts the detachable power cord included with the unit, and also houses the main power fuse. (Always replace with the Slo-Blo fuse indicated on the rear panel.)
- 2** POWER switch
This is the mains AC power switch.
- 3** GROUND switch
This switch is used for eliminating ground loops common to many multi-unit rack systems. Set this switch in the position which results in the least amount of hum (typically NORMAL for stand-alone use and LIFT for rack installations).
- 4** MIDI/SWITCHING section
See page 7 for a detailed operation of the MIDI and channel-switching functions.
- 5** OUTPUT jacks
Two parallel 1/4" mono jacks for line-level output.
- 6** OUTPUT LEVEL control
Adjusts the line-level output from the 1/4" OUTPUTS jacks.
- 7** AUX INPUT jack
This 1/4" jack is identical to the 1/4" input jack on the front panel. (Note that this input is disabled when the front input is used.)

Connections

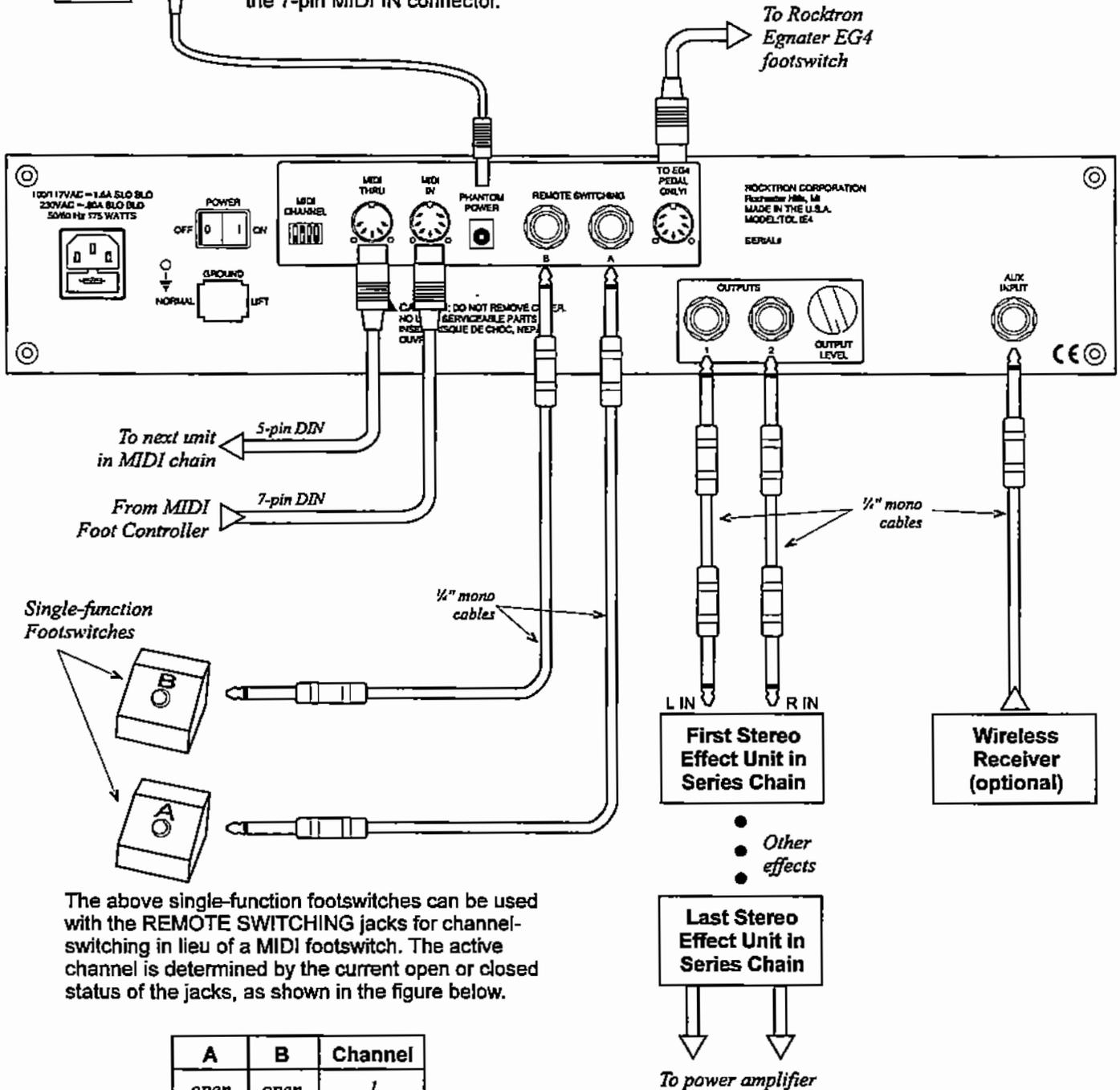
Front Panel Connections...

IE4 front panel



Rear Panel Connections...

Connecting the AC adaptor supplied with a Rocktron MIDI footswitch into the PHANTOM POWER jack allows for the Rocktron footswitch to be powered via pins 6 and 7 of the 7-pin MIDI IN connector.

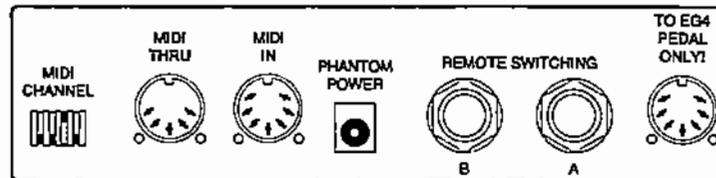


The above single-function footswitches can be used with the REMOTE SWITCHING jacks for channel-switching in lieu of a MIDI footswitch. The active channel is determined by the current open or closed status of the jacks, as shown in the figure below.

A	B	Channel
open	open	1
open	closed	2
closed	open	3
closed	closed	4

MIDI/Switching Section

This section describes the rear panel components (shown below) which relate to MIDI and channel switching options.



IE4 rear panel MIDI/Channel switching section

MIDI Primer

Program Changes

The IE4 provides numerous options for switching channels. One of the ways that you can switch channels on the IE4 is via *MIDI program changes*. A MIDI Program Change is a message sent by a MIDI controller or sequencer which tells your IE4 to switch to a specific channel.

MIDI Channels

When a program change is sent from a MIDI footpedal, it can be sent on any one of 16 *MIDI channels*. MIDI channels are like television channels. The IE4 can be set to receive MIDI messages on any one specific MIDI channel, ignoring messages sent on any other channels. In addition, a special mode called *OMNI* allows for the IE4 to respond to all incoming MIDI information, regardless of the MIDI channel that it is sent on.

In order for your preamp to switch via MIDI, you must be sure that your MIDI pedal and the IE4 are communicating on the same MIDI channel.

Setting the IE4's MIDI Receive Channel

MIDI
CHANNEL



- 1 Decide which MIDI channel you want (or choose OMNI).
- 2 Refer to the chart on the following page for proper rear panel DIP switch setting.
- 3 After setting the proper DIP switch combination, turn the power off and then on again.
- 4 The MIDI channel is now stored.

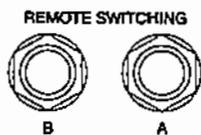
 MIDI CHANNEL 1	 MIDI CHANNEL 2	 MIDI CHANNEL 3	 MIDI CHANNEL 4
 MIDI CHANNEL 5	 MIDI CHANNEL 6	 MIDI CHANNEL 7	 MIDI CHANNEL 8
 MIDI CHANNEL 9	 MIDI CHANNEL 10	 MIDI CHANNEL 11	 MIDI CHANNEL 12
 MIDI CHANNEL 13	 MIDI CHANNEL 14	 MIDI CHANNEL 15	 MIDI CHANNEL 16

MIDI channel chart for rear panel MIDI channel selector

Making a Preset

- 1 Select the patch number on your MIDI controller.
- 2 Using the CHANNEL SELECT button, select which channel on the IE4 is to be recalled each time the above patch number is received.
- 3 Press and hold the MIDI STORE button until all the lights flash.

Your selection is now stored. Repeat the procedure for other presets.



Remote Switching Jacks

These jacks can be used independently or in conjunction with MIDI and the EG4 pedal for instant access to any channel.

- 1 Insert cables into the A & B jacks. Shielded cable is not required.
- 2 Connect the cables to an external latching switching device (i.e. switching system).
- 3 You will now be able to access all channels with the combination of open and closed contacts (as shown in the Connections figure on page 6).

Note: Switching is latching, not momentary.

TO EG4
PEDAL
ONLY!



EG4 Pedal Jack

This connector is dedicated for use with the exclusive Egnater EG4 instant access pedal. A standard 7-pin DIN cable is required for hookup. Just plug in and go!

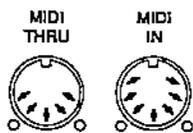
PHANTOM
POWER



Phantom Power Jack

This jack provides the ability to power the Rocktron MIDI Mate™ foot controller from a seven pin MIDI cable which connects from the MIDI Mate to the MIDI IN jack on the rear panel of the Intellipitch, thus eliminating the need to find an AC outlet near where the footpedal would be placed during a performance—or the need to run an extension cord out to the MIDI Mate.

Instead of inserting the adaptor into the MIDI Mate POWER jack, plug it into the PHANTOM POWER jack on the Intellipitch. This will power the MIDI Mate through pins 6 and 7 of the MIDI cable connecting the two units. A 7-pin MIDI cable must be used for this feature and is available through your Rocktron dealer.



MIDI In and MIDI Thru Jacks

MIDI IN

This 7-pin DIN connector receives MIDI information from the device which is transmitting the MIDI commands for the IE4 to execute.

MIDI THRU

This standard 5-pin DIN connector passes on the MIDI information that is received at the MIDI IN jack to other MIDI-compatible devices via a MIDI cable.

Note: Inherently in MIDI there is a limit to the number of devices which can be chained together (i.e. connected in series). With more than three devices connected, a slight distortion of the MIDI signal can occur (due to signal degradation) which can cause an error in MIDI signal transmission. Should this problem arise, a MIDI box can be used which connects directly to the MIDI device which transmits MIDI information and has multiple connectors for the multiple devices receiving MIDI. MIDI cables should not exceed 50 feet (15 meters) in length.

Tube/Fuse Replacement

Tube Replacement

The IE4 is shipped with seven 12AX7 preamp tubes. **Replacing any of these with alternative tube types will void the warranty.** If you suspect a problem with the tubes, please contact our Customer Service department.

Fuse Replacement

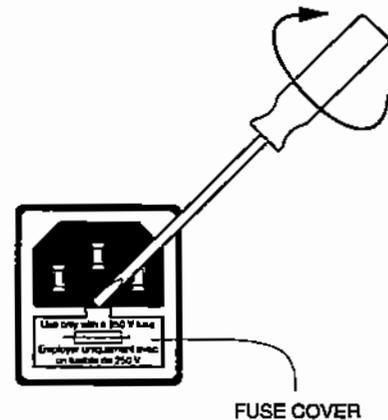
Always replace the main fuse with an identically rated replacement. Your IE4 preamp uses a 5x20mm, 1.6A amp, 250V slow-blow fuse (.80A, 250V slow-blow for 230VAC). The fuse is located immediately below the line cord inlet on the rear panel and can be accessed by removing the fuse cover module as shown below.

REPLACING THE FUSE

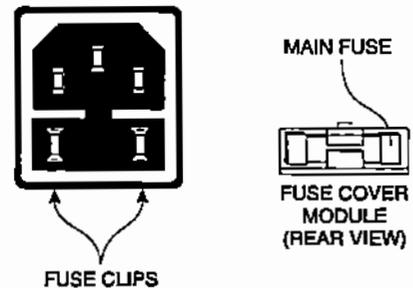
- ① Use a small flat screwdriver as shown to slide the fuse cover out from the power inlet module. The fuse can be found inside the fuse cover module after it is pulled out.



Note: A small compartment is also provided within the fuse cover module for storing a spare fuse.



- ② After replacing the fuse with another of identical specifications, push the fuse cover module fully back into place, ensuring that the fuse has snapped onto the fuse holder inside the power inlet module.



Specifications

Input Impedance	1 M Ω
Load Impedance	10K Ω
Maximum Gain	over 80dB
Operating Voltages	100, 117, 230 VAC
Dimensions	19" x 3.5" x 10"



CE Approved



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