

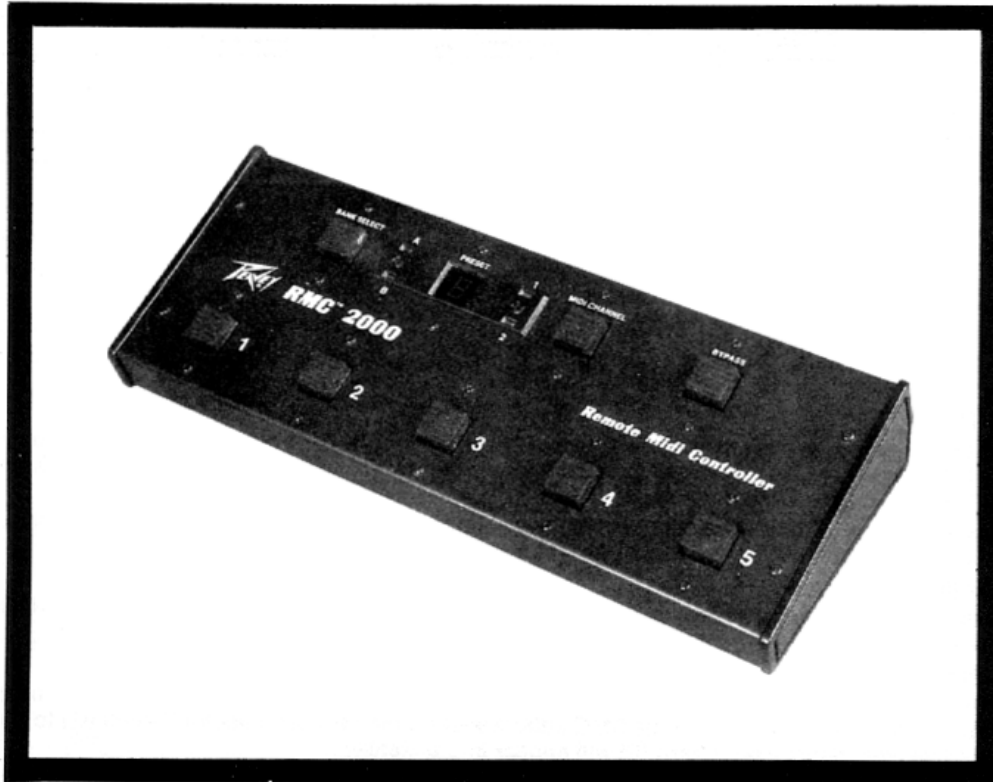


# RMC™ 2000

## OPERATING GUIDE

### CAUTION

TO PREVENT ELECTRICAL SHOCK, DO NOT EXPOSE THIS INSTRUMENT TO RAIN OR MOISTURE.  
BEFORE USING THIS INSTRUMENT, READ BACK COVER FOR FURTHER WARNINGS.



### INTRODUCTION

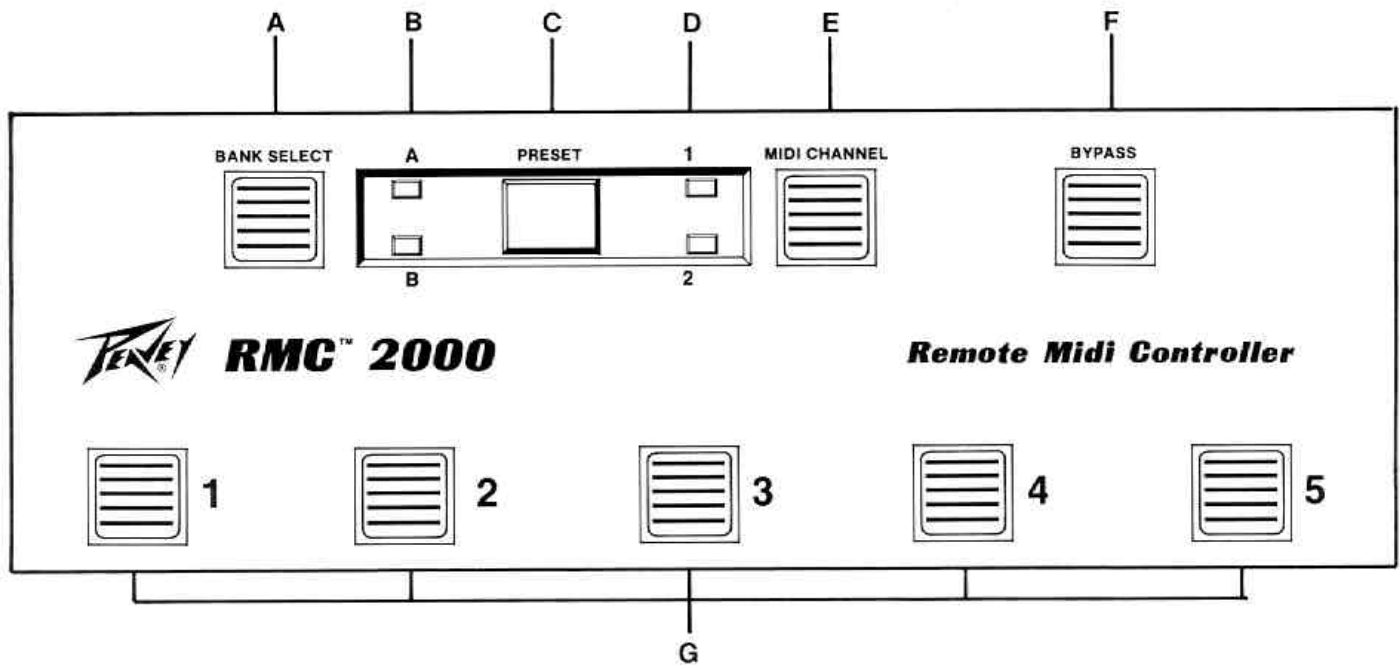
The Peavey RMC™ 2000 Remote MIDI Controller provides the musician with the capability to control MIDI compatible devices, such as Peavey's Programmax™ 10 amplifier and Programmable Effects Processor Model 4000 from a source other than a keyboard instrument. This is particularly useful to the guitarist or bassist who may not have the luxury of a standard keyboard interface to the MIDI network, yet who does not wish to sacrifice the convenience of standard MIDI control capability.

The RMC 2000 allows the musician to control multiple musical instrument systems from one control center, either simultaneously or independently, without the use of redundant patch cords or Y-type adaptors.

The RMC 2000 provides a "stand-alone" unit for immediate access to any of ten MIDI Program Presets on either of two MIDI channels. The auxiliary Bypass function is useful in conjunction with Peavey Programmable Effects Processors, and can also be used to select an additional Program Preset (#16) when used with other MIDI-compatible devices.

### FEATURES

- Total MIDI compatibility
- Selects any of ten Program Presets
- Dual MIDI channel control capability
- Numerical Program Preset Display
- Auxiliary Bypass function
- Internal power supply
- Simultaneous or independent control of MIDI devices
- Rugged mechanical construction
- Convenient size for transport or storage



### FRONT PANEL CONTROLS

#### Bank Select Switch (A)

The Bank Select switch provides the musician with a choice of either of two program preset banks, each containing five immediately-available MIDI Presets. Bank A contains MIDI Presets 1 through 5 (A1: A2: A3: A4: A5), while Bank B contains MIDI Presets 6 through 10 (B1: B2: B3: B4: B5).

Selecting a new bank will disable the Preset Indicator Display (C) until a new Preset is selected by depressing a Preset Selector Switch (G). When the new Preset is selected, the preset number will appear in the Preset Indicator Display.

#### Bank Indicator LEDs (B)

These LEDs provide a visual display of the selected bank. When the RMC 2000 is in operation, one of the two Bank Indicator LEDs will be illuminated at all times.

#### Preset Indicator Display (C)

The Preset Indicator Display provides a visual indication of the currently active Preset (1 through 5). If no number is visible in the display, the Bank number has been altered, and the RMC 2000 is waiting for a Preset Selector Switch (G) to be depressed. If the Bypass Select Switch has been depressed, a zero (0) will appear in the display.

#### MIDI Channel Indicator LEDs (D)

These LEDs provide a visual display of the MIDI channel which has been selected for information transmission. The RMC 2000 is capable of transmitting information on MIDI channels 1 or 2. Selection of the MIDI channel is accomplished via the MIDI Channel Select Switch (E).

#### MIDI Channel Select Switch (E)

The MIDI Channel Select switch is used to select the MIDI transmit channel (1 or 2). This switch provides the capability to control multiple MIDI-slave devices from the RMC 2000 simply by assigning the slave units to the appropriate MIDI receive channel(s). If the slave units are to be controlled simultaneously, they should be assigned to the same MIDI channel. If they are to be controlled independently, they should be assigned to different MIDI receive channels.

#### Bypass Select Switch (F)

The Bypass Select Switch is used in conjunction with Peavey Programmable Effects Processor Model 4000 to allow remote control of the Bypass function. Depressing the switch a second time will disable the Bypass function.

When the Bypass function is selected, a zero (0) will appear in the Preset Indicator Display (C), providing an indication that no other Preset is in effect.

Depressing the Bypass Select switch transmits MIDI Preset 16 over the selected MIDI channel. Accordingly, the Bypass function of the RMC 2000 may be used when this additional Preset is used with compatible devices.

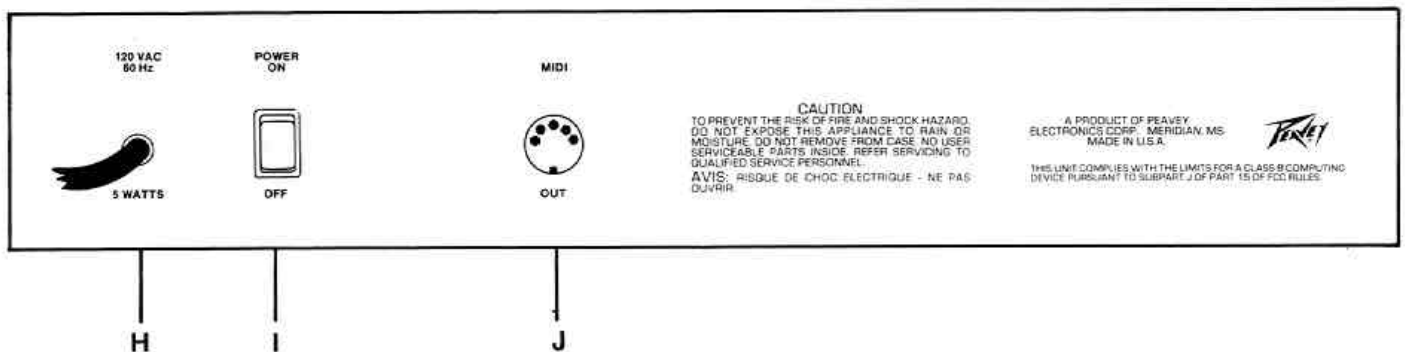
#### MIDI Preset Selector Switches 1 Through 5 (G)

The MIDI Preset Selector switches are used to select the MIDI Preset code to be transmitted, within the two banks A or B. Depressing a MIDI Preset Selector switch will cause the appropriate MIDI information to be transmitted over the selected MIDI channel, and will cause the corresponding program number to appear in the Preset Indicator Display (C).

Each Preset Selector switch is capable of transmitting either of two different MIDI codes, depending upon which bank has been selected. If Bank A has been selected, the transmitted information will correspond with MIDI Preset codes 1 through 5. If Bank B has been selected, the transmitted information will correspond with MIDI Preset codes 6 through 10.

# RMC™ 2000 MIDI CODE PROTOCOL

| MIDI Channel | Bank | Preset | MIDI Code |         |
|--------------|------|--------|-----------|---------|
|              |      |        | Byte #1   | Byte #2 |
| 1            | A    | 1      | C0        | 00      |
| 1            | A    | 2      | C0        | 01      |
| 1            | A    | 3      | C0        | 02      |
| 1            | A    | 4      | C0        | 03      |
| 1            | A    | 5      | C0        | 04      |
| 1            | B    | 1      | C0        | 05      |
| 1            | B    | 2      | C0        | 06      |
| 1            | B    | 3      | C0        | 07      |
| 1            | B    | 4      | C0        | 08      |
| 1            | B    | 5      | C0        | 09      |
| 1            | X    | BYPASS | C0        | 0F      |
| 2            | A    | 1      | C1        | 00      |
| 2            | A    | 2      | C1        | 01      |
| 2            | A    | 3      | C1        | 02      |
| 2            | A    | 4      | C1        | 03      |
| 2            | A    | 5      | C1        | 04      |
| 2            | B    | 1      | C1        | 05      |
| 2            | B    | 2      | C1        | 06      |
| 2            | B    | 3      | C1        | 07      |
| 2            | B    | 4      | C1        | 08      |
| 2            | B    | 5      | C1        | 09      |
| 2            | X    | BYPASS | C1        | 0F      |



## Line Cord (H)

For your safety, we have included a 3-wire line (mains) cable on the chassis with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the RMC 2000 without proper grounding facilities, a suitable grounding adaptor should be used. Shock hazard is greatly reduced when the unit is used with properly grounded receptacles.

## Power On/Off Switch (I)

The Power On/Off switch is used to supply AC power to the RMC 2000. When power is applied, a single Bank Indicator (B) and MIDI Channel Indicator (D) will be illuminated.

## MIDI Out Connector (J)

This 5-pin DIN connector is used to supply MIDI control information over a standard MIDI cable to any number of MIDI slave devices. Only MIDI Channel information and Preset information are transmitted through this connector.

**DANGER**

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.

THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

**DURATION PER DAY IN HOURS**

8  
6  
4  
3  
2  
1½  
1  
½  
¼ or less

**SOUND LEVEL (dBA, SLOW RESPONSE)**

90  
92  
95  
97  
100  
102  
105  
110  
115

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS.

EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS DEVICE IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS. IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THIS UNIT IS IN OPERATION.

**CAUTION**

THIS DEVICE HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE SIGNAL (VOLTAGE) FOR PLAYING MODERN MUSIC. IMPROPER USE OF THE GAIN/EQUALIZATION CONTROLS AND/OR IMPROPER USE OF INTERNAL/EXTERNAL BUSES **MAY** CREATE CLIPPING (SQUARE WAVES) AND POSSIBLY CAUSE SUBSEQUENT DAMAGE TO THE LOUDSPEAKER SYSTEMS. EXTENDED OPERATION OF THE GAIN/EQUALIZATION CONTROLS IN THEIR MAXIMUM POSITIONS IS, THEREFORE, **NOT** RECOMMENDED. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE GAIN/EQUALIZATION CONTROLS IF THE INPUT SIGNAL IS VERY STRONG. IT IS COMMON PRACTICE AMONG USERS OF SOUND REINFORCEMENT EQUIPMENT TO IDENTIFY THE INDIVIDUAL CHANNELS WITH A STRIP OF TAPE PLACED ABOVE OR BELOW THE ROW OF VOLUME FADERS. MANY TYPES OR BRANDS OF TAPE HAVE A VERY STRONG ADHESIVE WHICH CAN INHIBIT THE PAINT ON THE FACEPLATE AND ACTUALLY REMOVE THE PAINT WHEN THE TAPE IS REMOVED. WE STRONGLY RECOMMEND THAT SCOTCH TAPE NOT BE USED ON PAINTED SURFACES NOR ANY OTHER TAPE THAT IS NOT ESPECIALLY DESIGNED FOR SUCH APPLICATIONS. MEDIUM OR LIGHT ADHESIVE MASKING OR MIXER LABEL TAPE IS RECOMMENDED IF TAPE IS USED. ANY TAPE LEFT ON PAINTED SURFACE FOR EXTENDED PERIODS WILL BE DIFFICULT TO REMOVE. NEVER USE CLEAR OR SCOTCH TAPE FOR THESE APPLICATIONS.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e., a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, heater, radiator, or another heat producing amplifier.
8. Connect only to a power supply of the type marked on the unit adjacent of the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding, write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag or an ammonia based household cleaner if necessary.
13. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
14. This unit should be checked by a qualified service technician if:
  - A. The power supply cord or plug has been damaged.
  - B. Anything has fallen or been spilled into the unit.
  - C. The unit does not operate correctly.
  - D. The unit has been dropped or the enclosure damaged.
15. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.

Due to our efforts for constant improvement, features and specifications are subject to change without notice.



**PEAVEY ELECTRONICS CORPORATION / 711 A Street / Meridian, MS 39301 / U.S.A. / Telephone: (601) 483-5365 / Telex: 504115**

#80300551 5/86

Printed in U.S.A.