

GR-700 MODIFICATION MIDI IN OPERATION (VERSION 1.2)

This modification for your GR-700 will enable the system to receive external MIDI signals from other MIDI compatible controllers such as MIDI keyboard synthesizers, sequencers or drum machines. The MIDI input will receive Note ON/OFF, Velocity, Patch Change, Hold Pedal, Modulation (LFO), Pitch Bend and Poly On/Omni Off Channel receive (1 to 16).

To make use of this modification, it will be necessary to use an external footswitch such as the Roland FS-1. The footswitch will allow you to go back and forth between the MIDI-IN MODE and the normal GR-700 Mode.

NOTE: WHEN THE MIDI IN FUNCTION IS ENGAGED VIA THE FOOTSWITCH, THE MIDI OUT (NORMAL GR-700 MODE) IS DISENGAGED. HOWEVER, ACCESS TO THE OVERALL BALANCE AND VOLUME OF THE GUITAR / SYNTH MODULE IS AVAILABLE BY USING THE GUITAR CONTROLLER VOLUME AND BALANCE CONTROLS. THE OUTPUT OF THE GUITAR PICKUPS WILL PASS TO THE CONTROLLER OUTPUT AND/OR THE GR-700 GUITAR OUTPUT.

I. CHANNELIZE

The MIDI input will respond to any selected MIDI channel number (POLY ON/OMNI OFF). While designating the channel the GR-700 display will show CH (channel) and NUMBER (1 through 16).

OPERATION:

- A. PRESS AND HOLD THE CHORUS SWITCH,
- B. TO INCREASE THE CHANNEL NUMBER PRESS THE #8 FOOTSWITCH.
- C. TO DECREASE THE CHANNEL NUMBER PRESS THE #7 FOOTSWITCH.

II. MIDI RECEIVE FUNCTIONS

The MIDI functions of Patch Change, Hold, Pitch Bend and Modulation can be turned on or off as needed. While performing these functions, the display will show four zeros to show the on/off status of the four MIDI functions. These zeros toggle between the top and bottom of the display: A zero at the top of the display designates that the function is on while the bottom will designate off.

OPERATION:

- A. PRESS AND HOLD THE CHORUS SWITCH
- B. TO ENGAGE OR DISENGAGE ANY OF THE FUNCTIONS PRESS THE NUMBER 3 TO 6 FOOTSWITCHES. (3=PATCH CHANGE/4=HOLD/5=PITCH BEND/6=MODULATION *NOTE: WITH THIS VERSION, THESE FUNCTIONS WILL DEFAULT TO ON WHEN NORMAL GR-700 OPERATION IS RESUMED.*

III. PITCH BEND

The Pitch Bend information recieved at the MIDI input can be assigned to respond from 0 (unison) to 7 (P5th). In this Mode the display will show half step increments (0 to 7).

OPERATION:

- A. PRESS THE EDIT FOOTSWITCH OR THE PITCH BEND SWITCH.
- B. TO INCREASE THE BEND RANGE PRESS THE VOICE SWITCH.
- C. TO DECREASE THE BEND RANGE PRESS THE HOLD SWITCH. *NOTE: DO NOT USE THE HOLD FOOTSWITCH--USE ONLY THE HOLD SWITCH LOCATED IN THE STRING SELECT SECTION. WHEN THE MIDI INPUT IS ENGAGED THE PITCH BEND FUNCTION WILL DEFAULT TO TWO (2).*

IV. PARAMETER/EDIT FUNCTIONS

In either the MIDI in or normal GR-700 modes you can EDIT patches (sounds).

OPERATION:

- A. PRESS THE EDIT FOOTSWITCH
 - B. PRESS THE DESIRED EDIT/PARAMETER NUMBER(S).
 - C. PRESS THE VOICE SWITCH TO INCREASE THE PARAMETER.
 - D. PRESS THE HOLD SWITCH TO DECREASE THE PARAMETER.
- NOTE: WHEN EDITING PATCHES WHILE MIDI IN IS ENGAGED, EDIT NUMBER 11 BECOMES CUTOFF FREQUENCY (CF) AND EDIT NUMBER 48 BECOMES CHORUS ON/OFF. WHEN YOU RETURN TO NORMAL GR-700 MODE, THESE EDIT NUMBERS RESUME NORMAL OPERATION (SEE GR-700 OWNERS MANUAL).*

V. DYNAMICS

Press the HOLD footswitch to turn on and off the dynamics (velocity) recieved at the MIDI input. The modules' VCA LED will indicate the On/Off status of dynamics.

VI. MIDI INDICATOR LED'S

While the GR-700 is receiving MIDI signals the LED's on the VCF and VOICE switches will flash to indicate that MIDI information is being recieved by the module.

Memory Expansion is also available for the GR-700. If modified, the GR-700 will use the M64C Memory Cartridge and allow up to 256 different patches to be stored on the cartridge. If this modification is applied to your GR-700, you still have use of the standard M16C Memory Cartridge

VERSION 5 UPDATE FOR THE GR-700 GUITAR SYNTHESIZER

When installed on your GR-700 Guitar synthesizer, the version 5 update will enable the synth module (GR-700) to read the guitar controllers string vibration on the first cycle of the string. This new P-ROM (version 5) allows faster response that is especially useful for percussive/fast attack patches such as piano and organ sounds.

The new version 5 P-ROM can be accessed on the guitar controllers' 3 position mini toggle switch:

- POSITION 1- In the down position (POSITION 1), the GR-700 will produce only the sound from the standard guitar pickups.
- POSITION 2- In the middle position (POSITION 2), the synth mode is engaged and traditional GR-700 response can be obtained. This position is recommended for slow attack sounds such as string and brass patches.
- POSITION 3- In the top position (POSITION 3), the new P-ROM will be engaged which, again, will allow the GR-700 to read the first cycle of the string vibration. It should be noted, however, that in this mode (POSITION 3), the GR-700 becomes very sensitive to string vibration. It is advised that you spend time working with the patches that you will use in this mode to get acquainted with the way they will each respond to your playing style.