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MODERN MUSIC TECHNOLOGY

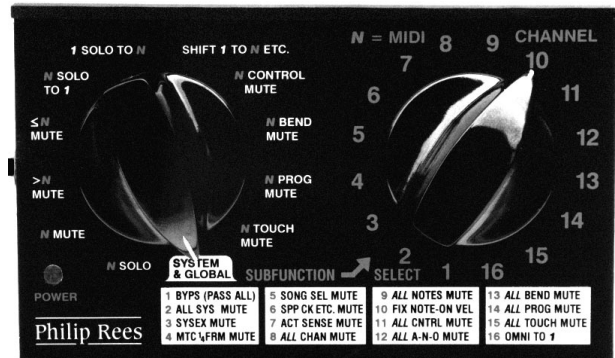
CSFD

Channel Shifter & Filter MIDI PROCESSOR

The handy *CSF MIDI Channel Shifter and Filter* is a multi-mode MIDI processor unit with a built-in mains power supply. It allows you to selectively pass or reject MIDI messages by channel, or to alter their channel assignments. It also makes it possible to mute a specific message type on a specific channel, or on all channels. MIDI System messages can also be selectively muted.

The front panel carries two rotary switches which combine to select the operating mode for the MIDI processor.

The sixteen-position switch is generally used to select a MIDI channel number. A twelve-position switch is then used to select the channel function. You could use one of the channel functions of the **CSF**, for example, to provide a receive channel selector for a device with a fixed-channel or Omni-only MIDI input.



Eleven MIDI channel processing functions are available, as follows:

- the selected channel retransmitted solo, the rest muted
- the selected channel muted, all others passed
- mute messages on channels above that selected
- mute messages on channels below or equal to selected
- the selected channel solo and shifted to channel one
- pass channel one solo shifted to selected channel
- shift all channels "round the clock" by selected offset
- mute control change messages on selected channel
- mute pitchbend messages on selected channel
- mute program change messages on selected channel
- mute all aftertouch messages on selected channel

The twelfth position is for the *System and Global mode*. When the function switch is in this position the sixteen position switch is available as a subfunction selector. A system function of the **CSF** could be used, for example, to prevent large System Exclusive dumps from disrupting a deficient MIDI input.

The sixteen *System/Global* subfunctions are:

- 1: bypass (pass all)
- 2: mute all system messages
- 3: mute System Exclusive messages
- 4: mute MIDI Time Code quarter frame messages
- 5: mute Song Select messages
- 6: mute Clocks, Start, Stop and Song Pointer
- 7: mute Active Sensing
- 8: mute all channel messages
- 9: mute all notes (on all channels)
- 10: set all note-on velocities to 100
- 11: mute all control change messages
- 12: mute all all-notes-off messages
- 13: mute all pitchbend messages
- 14: mute all program change messages
- 15: mute all aftertouch messages
- 16: retransmit all channel messages on channel one

System/Global subfunction 10 effectively turns off the MIDI "touch sensitivity" feature. This could be used where it is not possible to disable the velocity response of a keyboard.

The robust ABS enclosure is a compact 109mm x 109mm x 40mm, including the power supply. Sockets are provided for MIDI In, MIDI Out and MIDI Thru. The integral mains lead comes with a plug.

The POWER LED lamp lights to indicate the unit is powered-up. A second LED indicator flashes to indicate when DATA is being received at the MIDI In port.