

**J.L. Cooper LinnDrum
MIDI Manual**

The LinnDrum MIDI mod allows your LinnDrum to send and receive MIDI information whenever drums are played. It also generates or syncs to MIDI clock and handles MIDI start, stop, continue and song position pointer. In addition, the mod supports MIDI disk drive saves and loads.

Setup mode:

Set the Setup switch on the MIDI interface to ON position. Now, pressing down on any of the drum buttons will display the note value that is assigned to that drum. While holding the drum button down, press Right arrow button to increment or the Left arrow to decrement the note value. **Note that on power down, the note assignments will revert back to the factory default settings.**

Default Drum Assignments					
Drum	Note	Drum	Note	Drum	Note
Side stick	36	Hi Hat 2	44	Cabasa 2	52
Snare 1	37	Hi Hat Open	45	Tamb 1	53
Snare 2	38	Hi Tom	46	Tamb 2	54
Snare 3	39	Mid Tom	47	Hi Conga	55
Bass 1	40	Lo Tom	48	Lo Conga	56
Bass 2	41	Ride 1	49	Cowbell	57
Crash	42	Ride 2	50	Claps	58
Hi Hat 1	43	Cabasa 1	51		

To Slave the LinnDrum to MIDI Clock and Song Pointer:

Set the Sync switch on the MIDI interface to the on position. The LinnDrum will now follow MIDI Clock and Song Pointer. You may also offset the Sync (advance or delay the LinnDrum). Set the Setup switch to the ON position. While holding the Tempo button down, press the Right arrow button to advance the LinnDrum so that it plays ahead of the beat compared to the master in any increment from 1 to 8. Pressing the Left arrow will make the LinnDrum to be behind the beat. The LinnDrum will send MIDI Clock out (Master) while in normal play mode.

Note that on power down, the Sync offset values will revert back to the factory default setting of 0.

To set MIDI channel, set the dip switches on the Midi interface board as follows:

	Switch 1	Switch 2	Switch 3	Switch 4
CH 1	OFF	OFF	OFF	OFF
CH 2	ON	OFF	OFF	OFF
CH 3	OFF	ON	OFF	OFF
CH 4	ON	ON	OFF	OFF
CH 5	OFF	OFF	ON	OFF
CH 6	ON	OFF	ON	OFF
CH 7	OFF	ON	ON	OFF
CH 8	ON	ON	ON	OFF
CH 9	OFF	OFF	OFF	ON
CH 10	ON	OFF	OFF	ON
CH 11	OFF	ON	OFF	ON
CH 12	ON	ON	OFF	ON
CH 13	OFF	OFF	ON	ON
CH 14	ON	OFF	ON	ON
CH 15	OFF	ON	ON	ON
CH 16	ON	ON	ON	ON

System Exclusive:

The LinnDrum now supports saving and loading of sequence data to MIDI disks, computer interfaces and other MIDI devices using standard interchange protocols. To use this feature simply send the appropriate System Exclusive messages to the LinnDrum any time that it is idling.

Data dump request format:

F0h System Exclusive header
 15h
 8 LinnDrum I.D.
 1 Dump Request
 F7h End of System Exclusive

Data is dumped as:

F0h System Exclusive header
 15h
 8 LinnDrum I.D.
 0 Data coming
 Data 4 bit nibbles, right justified
 F7h End of System Exclusive

For LinnDrums with normal memory data = 16192 nibbles, with memory expansion data = 32384 nibbles.