Randall®
A M P L I F I E R S

RM4
Modular Tube Preamp

Install the modules (up to four) by firmly inserting the module into the slot. Then tighten the two captive thumbscrews until the module panel is pulled in flush with the rack panel. Always install a blank "filler" panel into any unused module slots. To remove a module, turn the two thumbscrews counter clockwise until they are loose. Grasp the thumbscrews and pull out.

FRONT PANEL:

INPUT:	Plug your guitar in here. This jack takes priority over the rear panel input.
CHANNEL:	Selects the desired module.
EFFECTS:	Adjusts the effects level for the PARALLEL LOOP.
MASTER:	The overall output level for all channels.

REAR PANEL:

INPUT:	Same as the front panel input.
PRE LOOP OUT:	A dry line level output before the effects loops. Typically used for "pseudo stereo" or a dry center cabinet in a three cabinet setup.
SERIES LOOP:	Used for effects that require processing 100% of the signal such as compressors, equalizers, noise reduction, etc.
PARALLEL LOOP:	A specialized loop that retains the direct (dry) signal at all times. Akin to the effects buss on a PA or recording mixer. Your direct tone is unaffected and the desired level of effects is controlled by the front panel EFFECTS knob. It is *imperative* that the effects unit is programmed for *100% effects (wet)* when using this loop. This loop should be used for time base effects such as echo, reverb, delay etc.
POST LOOP OUT:	Two parallel output jacks after the effects.
POWER:	AC mains on/off.
GROUND:	This switch separates the circuit ground from the chassis ground. Typically set for NORMAL when free standing and LIFT when used in a grounded rack setup. Select the position that produces the least hum.
FOOTSWITCH IN:	For channel selection. Used with the RANDALL (RF4) 4-button foot controller, or other midi controller.
THRU:	Passes the signal from the IN jack for controlling other devices.
AC INLET:	Accepts a standard IEC power cord. Remove the fuse holder and insert so that the arrow points to the correct voltage. Be sure to install the proper value fuse as indicated on the rear panel.

CHANNEL SWITCHING:

If there are four preamps installed, pressing & releasing the Channel Select switch within half-a-second will change the channel from 1 to 2, pressing & releasing again 2 to 3, and again 3 to 4, and once again 4 to 1.

SAVING A PRESET:

Pressing and holding the channel select switch for 1 second will store the current setting.

MIDI CHANNEL SELECTION:

The MIDI Channel (1 - 16) is selected via an internal four position DIP switch (S1). The MIDI Channel must be selected with the power off.

CHAN.	S1-4	S1-3	S1-2	S1-1
1	on	on	on	on
2	on	on	on	off
3	on	on	off	on
4	on	on	off	off
5	on	off	on	on
6	on	off	on	off
7	on	off	off	on
8	on	off	off	off
9	off	on	on	on
10	off	on	on	off
11	off	on	off	on
12	off	on	off	off
13	off	off	on	on
14	off	off	on	off
15	off	off	off	on
16	off	off	off	off

PHANTOM POWER:

9VAC @ 1 amp is supplied on pins 7 and 3 (internally switch able via S2-2) and also on pins 6 and 1 (internally switch able via S2-1) of the MIDI in jack. Consult your pedal manufacturer's manual for power requirements.

MIDI (RECEPTION) IMPLEMENTATION:

The EMB board recognizes Program Changes or (NOT both) Control Changes on a pre-selected MIDI Channel, see above for "MIDI Channel Selection".

Program Changes 1 to 128 select EMB presets 1 to 128, which are saved in EEPROM memory.

Control Change #56 (w/Control Value 127) allows for "Instant Access" selection of Channel 1.
Control Change #57 (w/Control Value 127) allows for "Instant Access" selection of Channel 2.
Control Change #58 (w/Control Value 127) allows for "Instant Access" selection of Channel 3.
Control Change #59 (w/Control Value 127) allows for "Instant Access" selection of Channel 4.

The first valid MIDI message (Program Change or Control Change) that the EMB board receives will determine how it responds to subsequent MIDI messages. For example; (a) if the first MIDI message the EMB board receives is a Program Change, then it will ONLY respond to Program Changes, ALL Control Change messages will be ignored (b) if the first MIDI message the EMB board receives is a Control Change, then it will ONLY respond to Control Changes, ALL Program Change messages will be ignored.

*** For users of the DMC Ground Control, Control Changes #56 - #61 correspond to GCX #4 Loops 1 - 6, latched.

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