

MISSION CONTROLLER

RADIO FX SWITCHING SYSTEM

OPERATING INSTRUCTIONS SX-4 SWITCHING MODULE

The SX-4 switching module expands the number of insert functions by 4 for each SX-4 module connected to the data bus that is sourced from the RX-1 receiver. It has two jack sockets marked DATA that allow multiple SX-4 units to be connected together to the data bus. Up to 9 SX-4 units can be connected to the DATA bus providing 36 channels of switching.

Data Bus: Connect a short standard 1/4 inch guitar patch cable between the DATA jack sockets of the SX-4 and RX-1 receiver. Some budget short patch leads do not comply with the standard profile for jack leads and have pointed tips that are excessively long. Avoid these cheap types as they will not work with the standard jack sockets we use.

Switching Functions: There are 4 channels of direct reed relay switching that allow hard wire bypass switching of effects. The LED will illuminate when the channel is in the insert mode.

Normalised Jack Connections: Channel Outputs 1-3 are normally connected via the corresponding output jack sockets to the next input in series to reduce the number of leads required. A chain is thus normally formed between Channels 1-4. Plugging a cable into outputs 1-3 breaks the chain at that point.

Powering: from an external AC adapter is recommended. Connection is by a standard DC power jack (standard protocol of negative feed to the 2.1mm centre pin). Output voltage should be 9-12 Volts DC. Current capacity should be 100mA or higher. Current consumption of unit is 80mA at 9V DC. A 9 Volt Alkaline Battery can also be used. Slide back battery cover and install battery. Note: When using a battery the expected operational life is about 3-4Hrs. The battery is turned on by the action of inserting a jack plug into the left channel IN jack socket so remember to remove this plug when not using the unit for long periods of time.

SETTING UP THE SX-4 TO RECEIVE COMMANDS

The SX-4 is capable of learning the unique code of up to 7 different transmitters (TX) and has to be set up before it can work with a particular TX. Follow the steps below to teach the SX-4 the TX code.

LED1 - status LED
LED2 - Low TX battery



CODE LEARN OPERATION

1. Press briefly and release the learn switch on the front panel using the tip of a pen.
 2. The status LED will illuminate while the switch is pressed and remain on when released.
 3. Press one of the buttons on the transmitter (TX) once, the status LED will extinguish.
 4. Operate the TX a second time, status LED will flash.
 5. After the status LED has stopped flashing the TX has been successfully taught to the SX-4.
 6. This TX will now operate the system.
- Up to 7 unique transmitter's code may be memorised by the RX-1 by repeating the above procedure and this information is retained when the power is off.

SX-4 Operating Instructions

ERASE OPERATION

To completely erase all transmitter data, press and hold the learn switch for 8 seconds. The status LED will illuminate continuously whilst the switch is held down and then flash while the RX-1 erases all memory. It may take several seconds until the erase function is complete. After the status LED is extinguished all the identities of the transmitters (TX) are erased from the RX-1 memory.

LOW TRANSMITTER BATTERY

The Low TX Battery LED will illuminate when the transmitter battery needs replacing. The expected life is about 9 months for normal use. The TX Battery Type is a 12V alkaline type 23A or equivalent.

AUDIO SIGNAL FLOW PATH OF SX-4

CHANNEL 1 IS ACTIVE OR INSERT MODE AND CHANNELS 2 - 4 ARE IN BYPASS MODE

