MANHATTAN RS-1933 DiSEqC Switching for Multiple Fixed Antenna Inputs
Updated May 1, 2013 by Mike Kohl

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Your ability to configure multiple switching from several different LNBs or LNBFs depends upon what firmware version is in your receiver.
If you are unsure about what firmware is in your receiver, read below and follow instructions in RED.

Identifying the Firmware Version in your receiver

1. **Use your remote control and press MENU button.**
2. **Look for TOOLS heading, dropping with down arrow if necessary to select.**
3. **Enter TOOLS section and select INFORMATION.**
4. **Study the entry to the right of MAIN CODE, which will give you the receiver's firmware version information (Example: LRJM 3.2 would translate to version 3.2, followed by a release date).**

Firmware with Version 3.2 or higher number should handle all DiSEqC possibilities:

Using a 2-Input DiSEqC Switch (non-motorized system)

Install 2-input DiSEqC switch, and confirm which Satellites are wired into Input 1, as well as Input 2.
Confirm that the output of 2x1 DiSEqC switch is connected to SATELLITE INPUT (2nd from left on back panel) of RS-1933 receiver.

Go to INSTALLATION section of receiver menu.
Select SATELLITE LIST, enter and confirm that those two satellites are Checked as active satellites.
Press EXIT.
If you will only be using those two satellites, un-check all other satellites, and if this is permanent, remember to delete other satellites so that their entries will not be in the way as you navigate between the two desired satellites.
Select ANTENNA CONNECTION, enter and select FIXED ANTENNA. Press EXIT.
On INSTALLATION menu, drop down and select ANTENNA SETUP.
Check the two Satellite entries for the desired satellites.

LNB Freq is usually 5150 for C-Band 10750 for U.S. domestic Ku-Band
If you are using something different, confirm what it is and select appropriate frequency.
Set DiSEqC 1.0 selection on each satellite. Port 1 or Port 2;
same as wired to DiSEqC switch from each satellite's LNB or LNBF.
Confirm that DiSEqC 1.1 is set to DISABLE.
Confirm that 22 KHz is set to OFF.
Polarity should be set to AUTO unless you have a specific reason to limit it to one polarity such as H or V.

Press EXIT and confirm any prompt that asks to Save your settings.

Confirm operation of each satellite.
Use prestored transponders to check Quality readings, or do an Auto Scan to find new or unknown transponders.
If you need to check active transponder frequencies,
go to a reliable source such as the Free To Air charts at www.global-cm.net
Do transponder scans as needed to create channel lists, and then edit them as desired.

Using a 4-Input DiSEqC Switch (non-motorized system)

Install 4-input DiSEqC switch, and confirm which Satellites are wired into Input 1, as well as Inputs 2, 3 and 4.
Confirm that the output of 4x1 DiSEqC switch is connected to SATELLITE INPUT (2nd from left on back panel) of RS-1933 receiver.
If you have less than four connections, leave the highest Input number(s) disconnected.
For instance, when using 3 inputs, connect 1-2-3 and leave input 4 disconnected.
2 inputs should use inputs 1 & 2, with 3 & 4 not connected.
Disregard for this sequencing order may cause the switch to become unbalanced and not function properly.

Setup in all other respects is similar to instructions given for 2-input switch above.
Program each of the 4 satellites for proper parameters.

Combining two 4-Input DiSEqC Switches through a 22 KHz switch = 8 inputs (non-motorized system)

Install 4-input DiSEqC switch, and confirm which Satellites are wired into Input 1, as well as Inputs 2, 3 and 4.
Install second 4 input DiSEqC switch and confirm which Satellites are wired input Inputs 1, 2, 3 and 4.
Connect each of these switches to the RS-1933 receiver separately one at a time, and test their operation, after programming the two groups of 4 satellite connections (8 satellites total) appropriate to the switch configurations.
Turn AC power off temporarily with toggle switch on back.

Once you have disconnected the outputs of both 4x1 DiSEqC switches,
install a jumper cable on each so that you can connect to a 22 KHz switch.
Connect the output of the first 4x1 DiSEqC switch to the 0 KHz input of the 22 KHz switch.
Connect the output of the second 4x1 DiSEqC switch to the 22 KHz input of the 22 KHz switch.
Connect the output of the 22 KHz switch to the Satellite Input of the RS-1933 receiver.
Turn AC power switch back ON and wait for receiver to reboot up.
Go to INSTALLATION section of receiver menu.
Select SATELLITE LIST, enter and confirm that all satellites you will be using are Checked as active satellites.
Press EXIT.
Un-check all other satellites, and if this is permanent, remember to delete other satellites so that their entries will not be in the way.
Select ANTENNA CONNECTION, enter and select FIXED ANTENNA. Press EXIT.
On INSTALLATION menu, drop down and select ANTENNA SETUP.
Check the Satellite entries for the desired satellites.

LNB Freq is usually 5150 for C-Band 10750 for U.S. domestic Ku-Band
If you are using something different, confirm what it is and select appropriate frequency.
Do NOT use any LNBFs that require a 22 KHz switch for band switching such as the Universal Ku-band LNBFs.
You need the 22 KHz command for the 22 KHz used in this circuit. Replace with a 10750 MHz local oscillator Ku-Band LNBF,
or consider a single 8-input DiSEqC Switch outlined below.
Set DiSEqC 1.0 selection on each satellite. Port 1, 2, 3 or 4 --- same as wired to DiSEqC switch from each satellite's LNB or LNBF.
Confirm that DiSEqC 1.1 is set to DISABLE.

Confirm that 22 KHz is set to OFF on first four satellites, and set to ON for all satellites connected to the second 4x1 DiSEqC switch.
Polarity should be set to AUTO unless you have a specific reason to limit it to one polarity such as H or V.

Test and confirm operation, after first saving all entries.

Using an 8-Input DiSEqC Switch (non-motorized system)

Install 8-input DiSEqC switch, and confirm which Satellites are wired into Input 1, as well as Inputs 2 to 8.
Test each wire coming from individual satellites to confirm proper operation prior to installing onto the 8x1 DiSEqC switch.
(Some larger switches occasionally have crossed wiring or labeling designations, so it could save time in potential troubleshooting if you know for certain which cable each satellite is delivered with to the switch.)
Write down the designations on a note pad.

Go to INSTALLATION section of receiver menu.
Select SATELLITE LIST, enter and confirm that all satellites you will be using are Checked as active satellites.
Press EXIT.
Un-check all other satellites, and if this is permanent, remember to delete other satellites so that their entries will not be in the way.
Select ANTENNA CONNECTION, enter and select FIXED ANTENNA. Press EXIT.
On INSTALLATION menu, drop down and select ANTENNA SETUP.

Check the individual Satellite entries for the desired satellites.
LNB Freq is usually 5150 for C-Band 10750 for U.S. domestic Ku-Band
If you are using something different, confirm what it is and select appropriate frequency.
Set DiSEqC 1.0 selection on each satellite for DISABLE.
Confirm that DiSEqC 1.1 is set to 2 CASCADES: Port ##
Select port setting using INPUT designator for each satellite, from the choice of Ports 1 through 16.
Confirm that 22 KHz port is turned OFF on all entries.
Polarity should be set to AUTO unless you have a specific reason to limit it to one polarity such as H or V.

Test and confirm operation, after first saving all entries.

Using an 16-Input DiSEqC Switch (non-motorized system)

Install 16-input DiSEqC switch, and confirm which Satellites are individually wired into Inputs 1 - 16.
Setup in all other respects is similar to instructions given for 8-input switch above.
Program each of the 16 satellites for proper parameters. Test and confirm operation.