



DS18 XM3 3-Way Electronic Crossover Owner's Manual

[Home](#) » [DS18](#) » DS18 XM3 3-Way Electronic Crossover Owner's Manual 

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Contents

- [1 Features](#)
- [2 Specification](#)
- [3 Functions](#)
 - [3.1 Functions](#)
 - [3.2 Functions](#)
- [4 Mounting](#)
- [5 Installation](#)
- [6 Troubleshooting](#)
- [7 Documents / Resources](#)
- [8 Related Posts](#)

Features

3-Way Active Crossover w/ x20 Frequency Multiplier Switch
Remote Sub-level Control
0-180 Degree Sub woofer Phase Switch
Butter worth 12dB/octave Slopes
Detented Frequency Selection Controls
Gold RCA Input and Output connectors
Power, Ground and Remote connector
PWM Power Supply
Led Power Indicator
Bass Boost

Specification

- **Signal-to-Noise Ratio** >102dB
- **Total Harmonic Distortion** (1KHz, 1VRMS) 0.01%
- **Crossover Slopes:** 12 dB/octave Butterworth
- **Front High Pass** 32 Hz to 400/640 Hz- 8KHz
- **Rear High Pass** 32 Hz to 400Hz
- **Sub woofer** 32 Hz to 400Hz
- **Remote Sub Level** + 18 dB boost
- **Low Level Input Voltage** 4 VRMS
- **Maximum Output** (10KCt Load) 9VRMS
- **Supply Voltage** 9-15 CDS
- **Dimensions** 125mm W x 170mm L x 47mm H

Functions



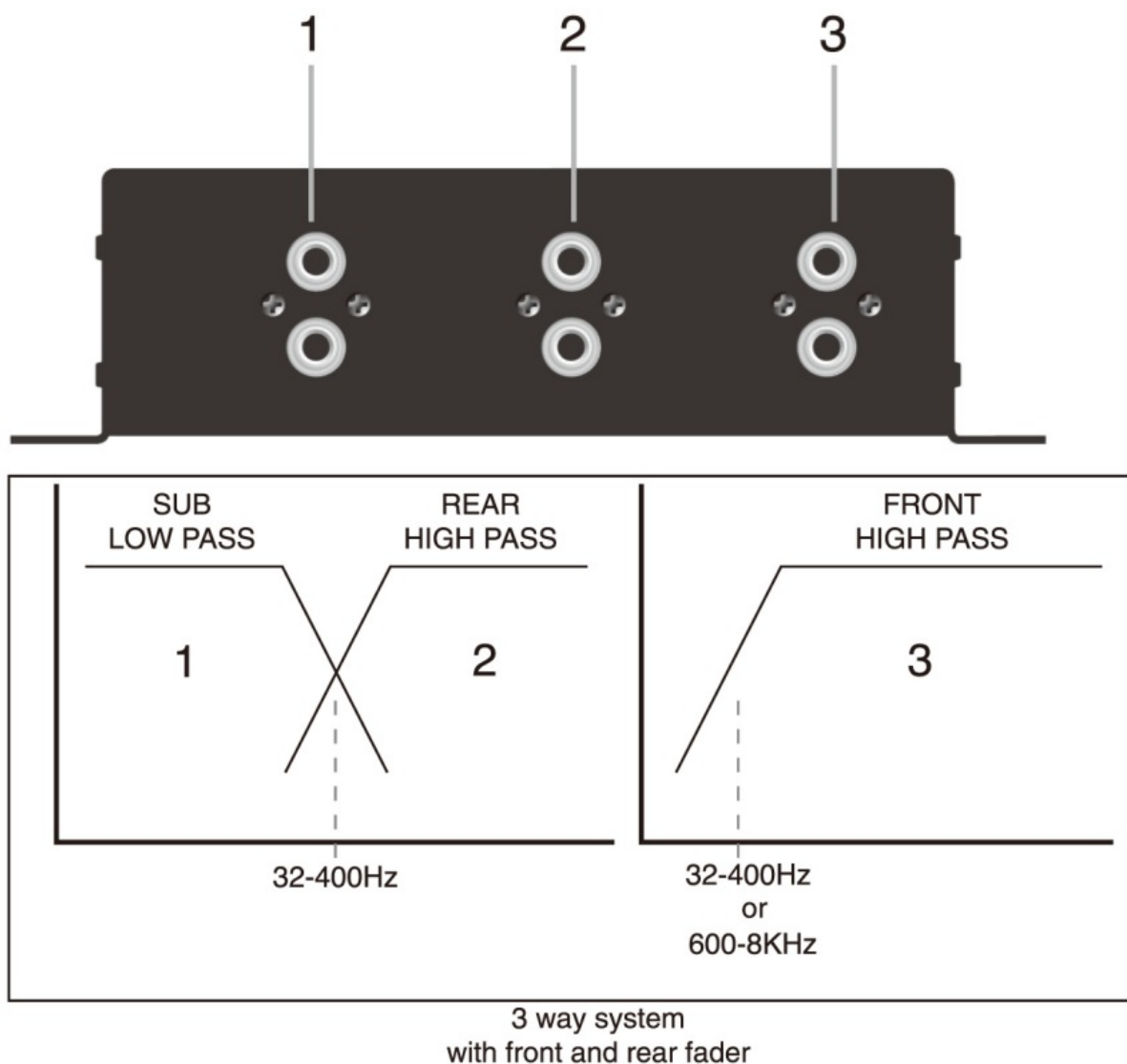
1. **Power LED:** Red light indicates power on.
2. **Front Channel High pass Frequency Control:** This detented knob controls the frequency of the front Highpass output from 32 Hz to 8KHz
3. **Multiplier:** This switch multiplies the Front Channel Highpass Frequency Control from either 32-400Hz (x 1) to 600-8kHz(x20). Switch to the left to multiply (x 1) and to the right to multiply (x20).
4. **Parallel Input:** This switch combines the Front and Rear inputs if only one RCA pair is available for signal input. Switch to the left to PARALLEL INPUT inputs and to the right to use separate inputs.
5. **Rear Channel High pass Frequency Control:** This detented knob controls the frequency of the Rear Highpass output from 32-400Hz
6. **Phase:** This switch allows you to invert the subwoofer phase from 0 to 180°.
7. **Sub Frequency Control:** This detented knob controls the frequency of the Sub woofer output from 32-400Hz.
8. **Bass Boost:** This knob allows for a boost at 40Hz up to 12dB.
9. **Level:** Allows you to control level up to 18dB.
10. **MODE:** Change the Sub woofer output from stereo to mono

Functions



1. **Front Input:** Gold plated RCA inputs. Plug in the RCA cables from the front channel of your radio here.
2. **Rear Input:** Gold plated RCA inputs. Plug in the RCA cables from the Rear channel of your radio here.
3. **Mixed Output:** Gold plated RCA inputs. Plug in the RCA cables here to get mixed in or out signal from the front input. You can use this to feed another crossover using same signal from radio.
4. **Sub Low Pass:** Gold plated RCA outputs. Run the RCA cable to the Sub woofer amplifier RCA input.
5. Remote Sub Level: Plug the remote sub level control into this jack. Run the remote sub level control to a position in the passenger area to allow control of the sub level.
6. **Rear High Pass:** Gold plated RCA outputs. Run the RCA cable to the Rear Speaker or mid range speaker amplifier RCA input.
7. **Front High Pass:** Gold plated RCA outputs. Run the RCA cable to the Front speaker or tweeter amplifier RCA input.
8. Power: After connecting the Power, Ground and Remote wires to the Power lock connector, plug the connector in here.

Functions



Mounting

To prevent damage to the crossover while driving, mount it in a secure place. Choosing the appropriate location will depend upon your vehicle and the complexity of your system design. Typical mounting locations for your new crossover include the trunk or passenger compartment (floor or under seat). Never mount the component in a location that would subject it to immersion or exposure to water.

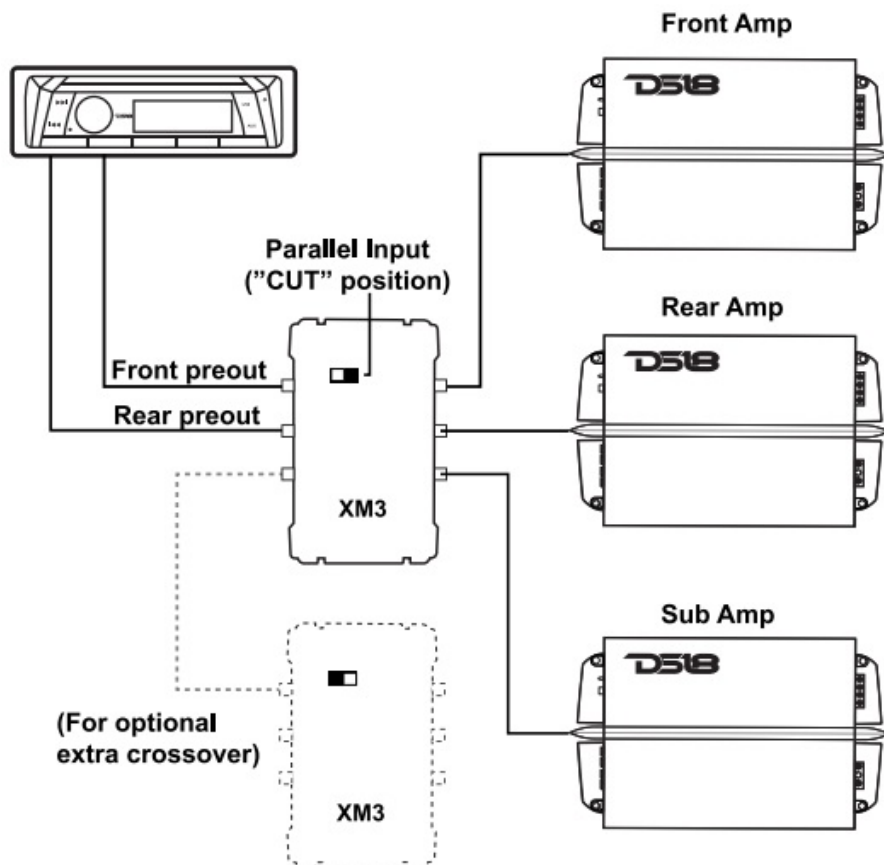
Once a location has been chosen, securely mount the crossover with four mounting screws. Be Careful! Inspect the area underneath to be sure you are not drilling into wires, etc. that could be damaged by the drill bit or screws.

Location for mounting screw

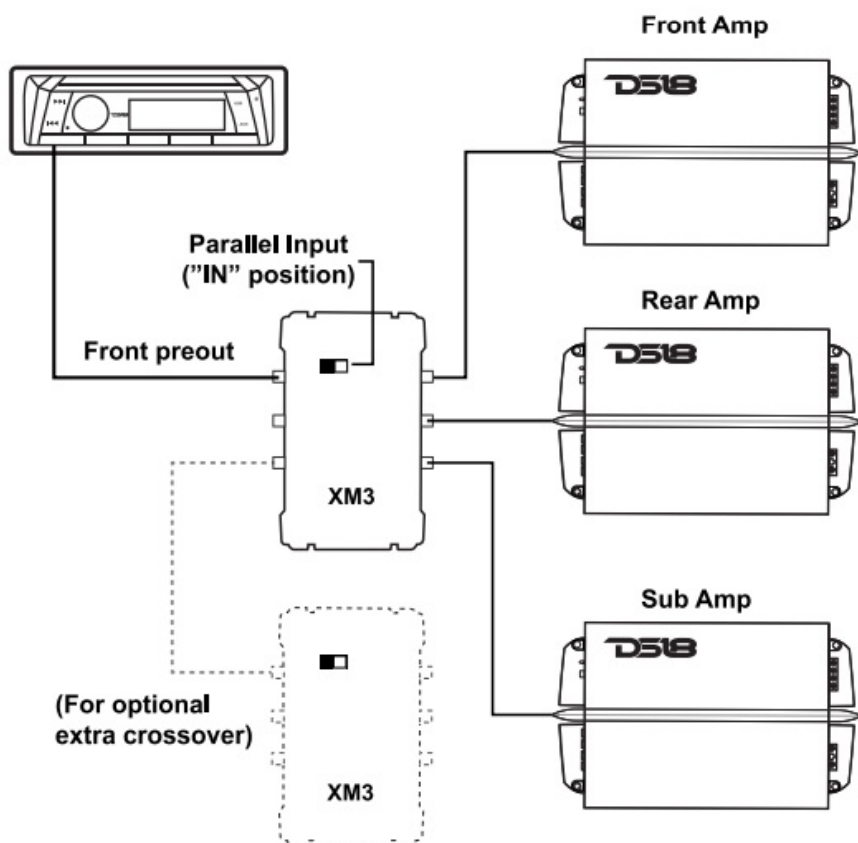


Installation

Mode 1:



Mode 2:



Troubleshooting

NO SOUND

YES

Check input cables for signal by connecting them straight to the subwoofer amplifier.

Is the LED lit?

NO

Check power and remote turn-on wire for voltage. Make sure ground wire is secure.

ANY SOUND NOW?

Check for open fuse

YES

Problem is in the crossover. See your local authorized dealer.

NO

Problem is elsewhere in the system. Check the head unit and amplifiers.

SOUND IN ONE CHANNEL ONLY

Reverse left and right RCA outputs for one band(i.e. subwoofers).

SOUND IS NOW IN?

OPPOSITE CHANNEL

Reverse RCA inputs.

SAME CHANNEL

Problem is in the amplifier, speakers or associated wiring of the silent channel.

SOUND IS NOW IN?

OPPOSITE CHANNEL

Reverse RCAs at head unit
(Check balance control).

SAME CHANNEL

Problem is in the crossover. See your local authorized dealer.

SOUND IS NOW IN?

OPPOSITE CHANNEL

Problem is in the head unit.

SAME CHANNEL

Problem is in the RCA cables.

LOW OUTPUT FROM ONE BAND

Check crossover frequencies for low pass points set higher than high pass points and check gain control on the affected amplifier(s). If low output is still a problem contact your local authorized dealer.



Documents / Resources



[DS18 XM3 3-Way Electronic Crossover](#) [pdf] Owner's Manual

XM3, 3-Way Electronic Crossover, XM3 3-Way Electronic Crossover, Electronic Crossover, Crossover