

## SC2/SC4/SC6 MANUAL

Thank you for purchasing the DD Audio Signal Converter. We designed the SC-2/4/6 as OEM (Original Equipment Manufacturer) interface components that allow the addition of aftermarket equipment to a factory-installed source unit. When installed properly this unit can be expected to give you years of trouble free operation. To achieve optimum performance we suggest you have your audio equipment installed by an authorized DD AUDIO dealer. To ensure ease of use and proper setup please take a moment to thoroughly read through this operation manual. We hope you enjoy this product, and if you have any questions regarding the setup or installation please contact the DD AUDIO technical support team.

### SC-2/4/6 DESIGN FEATURES

- Input Summing (SC-4/6)
- Differential Balanced Inputs
- Independent Variable Gains
- OEM Load Detect Compatible (some vehicles will require additional install accessories)
- Selectable Ground Isolation
- Selectable Signal Sense, DC Offset or 12v+ Turn On

### TECHNICAL SPECIFICATIONS

	SC2	SC4	SC6
Channels In/Out	2ch	4ch	6ch
Operating Voltage	10-16V	10-16V	10-16V
Current Draw, No Signal	100mA	110mA	170mA
Input Impedance	180Ω	180Ω	180Ω
Max Output Voltage	10V	10V	10V
Channel Separation	>65dB	>65dB	>65dB
Output THD	0.01%	0.01%	0.01%
Sig/Noise	>95dB	>95dB	>95dB
REM OUT Current	12V >500mA	12V >500mA	12V >500mA
Frequency Response	10Hz~50Kz	10Hz~50Kz	10Hz~50Kz
Input Voltage	2-20v / 4-40v	2-20v	2-20v
Dimensions mm	78 x 78 x 25	98 x 104 x 25	98 x 119 x 25
Dimensions inches	3 x 3 x 1	3.8 x 4 x 1	3.8 x 4.6 x 1

## Input/Output Connections

### HIGH LEVEL INPUT:

Connect to hi-level (speaker level) inputs for integrating into OEM audio systems.

### CH1/CH2 INPUT RANGE JUMPER

(SC2 Only):

When using signal sense turn-on insert the jumper to the correct pin position for your application.

- **20V:** This setting will be proper for most installations.
- **40V:** Use this setting if your Hi Level source signal peak voltage is over 20v at normal operating levels.

### TURN ON JUMPER:

- **DC-ON:** Use this jumper position for DC Offset detect turn on (recommended).
- **ON-SE:** Use this jumper position for Signal Sense turn on.
- Remove Jumper for **12v + REM IN** turn on.

### GROUND JUMPER:

- The bottom jumper position is the default chassis ground setting and should be proper for most installations
- If signal noise is present move the jumper to the top position. This will isolate the ground from the RCA shield.

**NOTE:** Only insert the jumpers vertically. DO NOT insert them horizontally.

### REM OUT:

Provides a 500mA 12-volt switched turn-on signal for your aftermarket devices.

**NOTE:** The REMOTE OUT is not to be used as the main power for these devices. May require an additional relay for multi device turn on.

### REM IN:

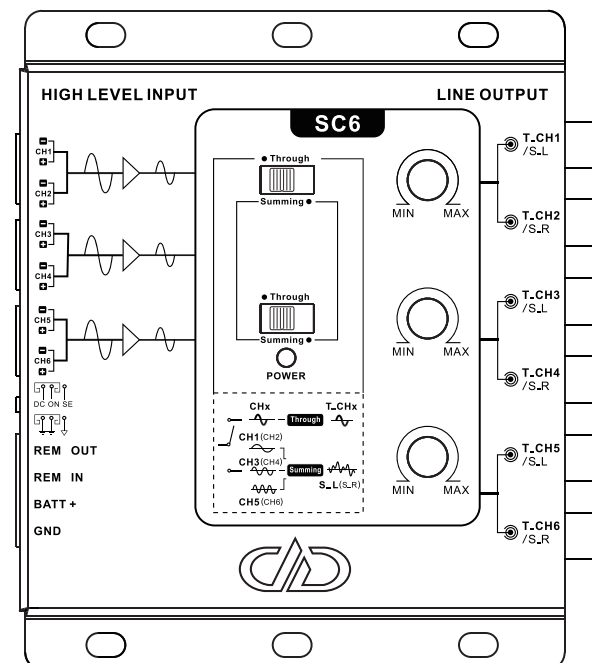
Connect this terminal to a triggered 12-volt wire from your source unit to remotely turn the SC on and off. Remove the Turn On jumper for this mode.

### BATT+:

Connect this terminal to a constant 10-16v source, such as your battery.

### GND:

Connect this terminal to a verified chassis ground. Run a separate ground for the SC. Do not connect to a factory ground wire. Factory ground wires usually have multiple devices connected to them and can lead to ground loop issues.



### POWER LED:

When illuminated indicates the SC is powered on.

### THROUGH/SUMMING SWITCH (SC4/6 only):

When set to **THROUGH** the inputs will pass through to the corresponding outputs.

When set to **SUMMING** the SC-4/6 will internally sum together input channels. This feature is used to achieve a full range signal when integrating with a factory system that has multiple, actively crossed-over signals from the OEM source unit.

If you only have signal connected to CH1-CH2 you can use the summing feature to send signal to all outputs.

### MIN/MAX OUTPUT LEVEL CONTROLS:

Your SC has level matching controls for each pair of output channels. These controls allow you to adjust the OUTPUT signal levels from your SC to match up with your aftermarket equipment.

### LINE OUTPUT:

Connect the SC LINE OUTPUT to your aftermarket equipment's low-level RCA inputs.

If you have any questions regarding setup, installation or warranty please contact the DD AUDIO technical support team by email at [service@ddaudio.com](mailto:service@ddaudio.com) or by phone at (405) 239-2800.