D-Show Sidecar
Installation Guide

digidesign

Communications & Safety Regulation Information

Compliance Statement

The models D-Show Main, D-Show Sidecar, D-Show FOH Rack, and D-Show Stage Rack comply with the following standards regulating emissions and immunity:
- FCC Part 15 Class B
- EN55103 – 1, environment E3
- EN55103 – 2, environment E3
- AS/NZS 3548 Class B
- CISPR 22 Class B
- ICES-003 Class B

Canadian Compliance Statement:

This Class B digital apparatus complies with Canadian ICES-003
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Compliance Statement:

Digidesign is authorized to apply the CE (Conformité Europénne) mark on this compliant equipment thereby declaring conformity to EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC.

Australian Compliance:

ACN 069 650 120

Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

Communications Statement

This equipment has been tested to comply with the limits for a Class B digital device. Changes or modifications to this product not authorized by Digidesign, Inc., could void the Certification and negate your authority to operate the product. This product was tested for CISPR compliance under conditions that included the use of peripheral devices and shielded cables and connectors between system components. Digidesign recommends the use of shielded cables and connectors between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices.

Safety Statement

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL Standards: UL60065 7th /IEC 60065 7th and Canadian CAN/CSA C22.2 60065:03. Digidesign Inc., has been authorized to apply the appropriate UL & CUL mark on its compliant equipment.

Warning

Important Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12) Use caution when replacing the Lithium battery in the FOH Rack unit. There is danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Contents

Chapter 1: Sidecar Overview

Each D-Show Sidecar adds 16 input channels to the D-Show control surface.

A total of three Sidecars can be connected to the D-Show Main Unit, for a maximum of 56 Input Channel faders.

Components

Included Components

The following components are included with a Sidecar:

- Sidecar unit
- Console Link cable
- AC power cord
- Set of Hex wrenches for attaching the Sidecar to other D-Show units

Operational Requirements

Temperature and Ventilation

D-Show units should be operated away from heat sources and with adequate ventilation.

Storage

D-Show units should be stored and transported at temperatures not lower than 0 degrees F (–18 degrees C) and not exceeding 140 degrees F (60 degrees C).

Operation

D-Show units should be operated at temperatures not lower than 40 degrees F (4 degrees C) and not exceeding 115 degrees F (46 degrees C).

Water and Moisture

D-Show units should be operated away from sources of direct moisture and should be kept clear of liquids that might spill into the units. If condensation is present on the unit, leave the unit to dry in ambient air for at least one hour before powering the unit on.

Cleaning and Maintenance

If you need to clean the surface of any D-Show unit, use a dry cloth. Do not apply any cleaning solutions, spray cleaners, or abrasives to the surface.

Power Connections

Each power supply in the Sidecar requires its own power connection. Each power supply is auto voltage-selecting (100V to 240V). A modular IEC power cable is provided for each power supply in the unit.

D-Show Sidecar

Sidecar Top Panel

Encoder Assignment Section

Input Channel Section

Global Modifier and Fader Bank switches
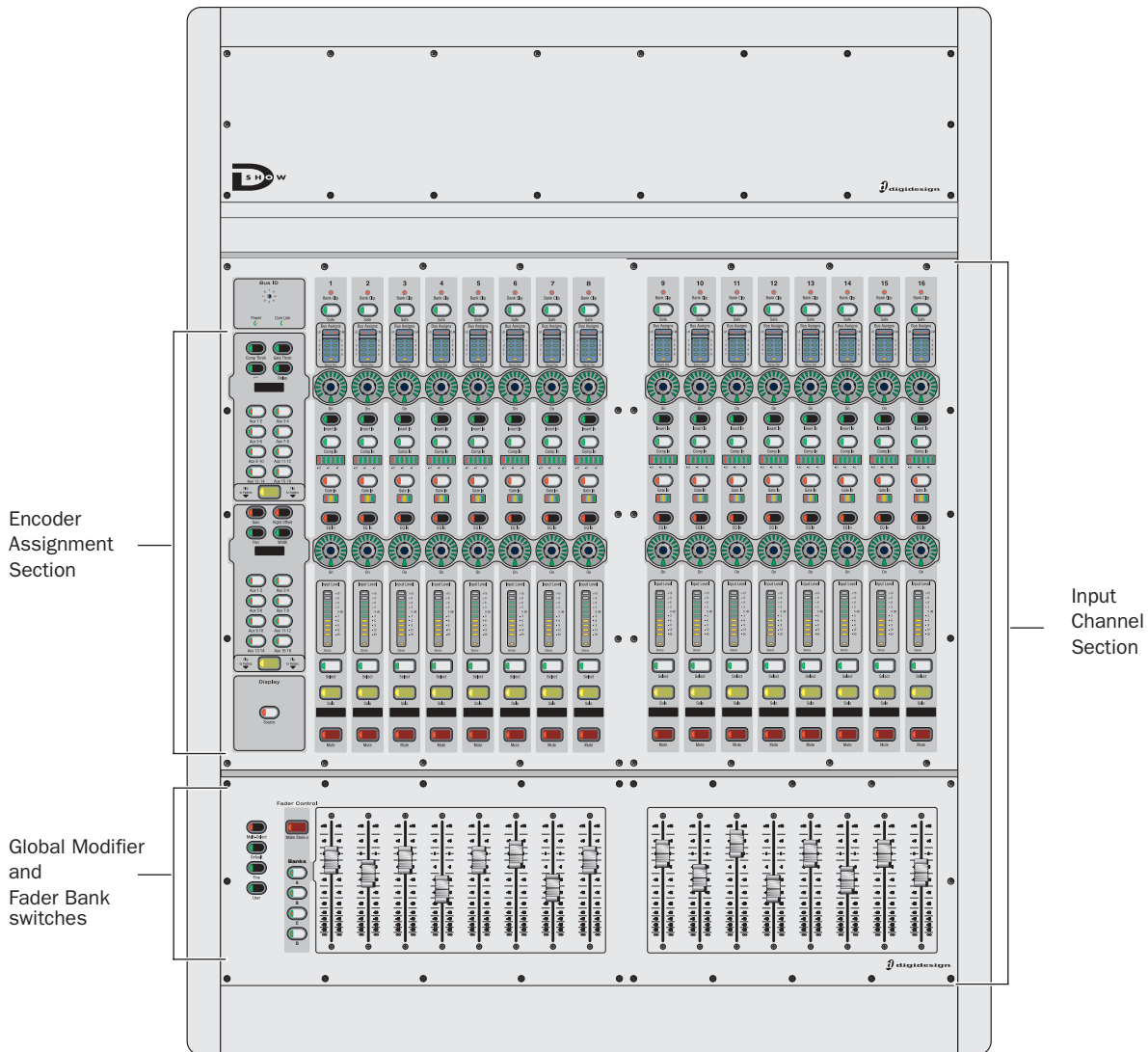
Sidecar top panel

Input Channel Section

Each D-Show Sidecar unit has 16 channel strips that provide access to Input Channels. Input Channels are used to control input signals from the Stage Rack, FOH Rack, and Pro Tools playback options.

Encoder Assignment Section

Each D-Show Sidecar unit includes Encoder Assignment controls that are used to assign functions to the two rows of rotary encoders. These controls mirror the state of the same controls on the Main Unit.

Global Modifier and Fader Bank Switches

Each D-Show Sidecar unit has a set of Global Modifier and Fader Bank switches that mirror the function of the corresponding switches on the D-Show Main Unit.

Sidecar Back Panel
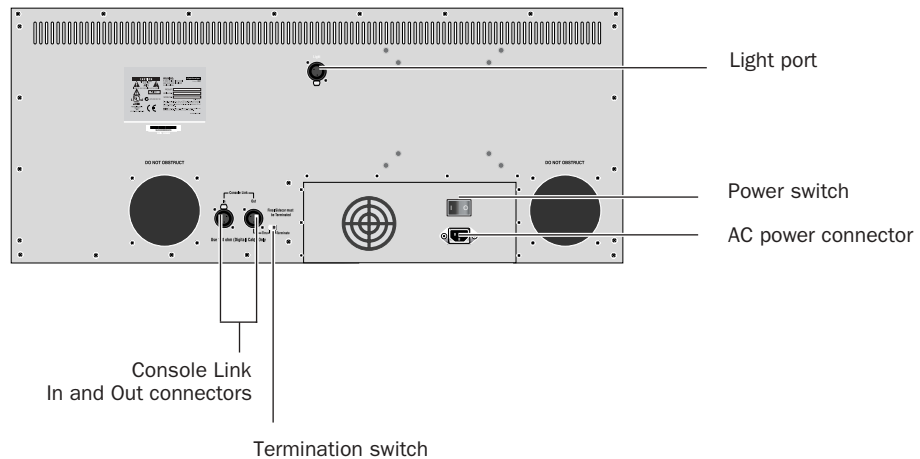
Sidecar back panel

Console Link In and Out Connectors

The Console Link In and Out connectors use 110-Ohm AES/EBU (Digital) XLR cables to connect the Sidecar to the Main Unit or to other Sidecars.

⚠ *All Console Link connections require 110-Ohm AES/EBU (Digital) cable. Do not use standard audio-grade microphone cable to connect the Main Unit and Sidecars.*

Termination Switch

The Termination switch is used to terminate the Console Link chain. On the last Sidecar in a chain, this switch should be set to "Terminate." On all other Sidecars, this switch should be set to "Thru."

Power Switch

The Power switch applies power to the D-Show Sidecar.

AC Power Connector

The AC Power connector accepts a standard AC power cable. The D-Show Sidecar is auto-power selecting (100V to 240V) and automatically works with a standard modular power cord when connected to an AC receptacle in any country.

Light Port

The powered light port supports an optional 3-pin XLR console light.
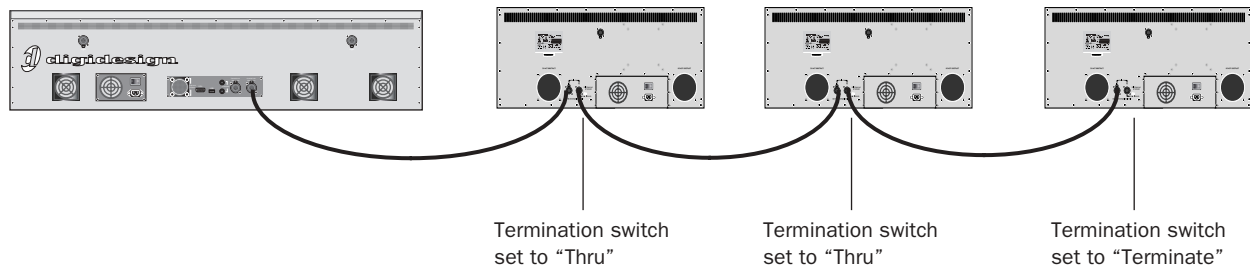
Chapter 2: Connecting a Sidecar

Connecting the D-Show Main Unit and Sidecars

The D-Show Main Unit and Sidecars are connected with Console Link cables, which are 110-ohm AES/EBU digital cables. One 15-foot (4.6 meter) cable is provided with each Sidecar. The maximum length permissible for each Console Link cable is 25 feet (7.6 meters). Up to three Sidecars can be connected to the "Sidecar 1–3" port on the Main Unit.

To connect the Main Unit and Sidecars:

1 Connect the Console Link In port on the back panel of the nearest Sidecar to the "Sidecar 1–3" port on the back panel of the Main Unit.

2 On the successive Sidecars, connect the Console Link In port to the Console Link Out port on the previous Sidecar.

Termination switch
set to "Thru"

Termination switch
set to "Thru"

Termination switch
set to "Terminate"

Console Link connections for Main Unit (left) and Sidecars (right)

3 On the last Sidecar only, terminate the Console Link connection with the Terminate switch.
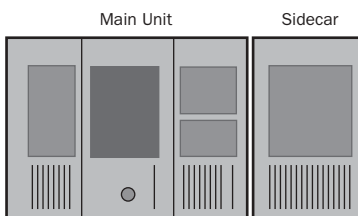
Attaching the D-Show Main Unit and Sidecars (Optional)

The D-Show Main Unit and any Sidecars can be fastened together for storage, transportation and setup as a unit, or left as free-standing units.

Sidecars can be attached to the right or the left side of the Main Unit.
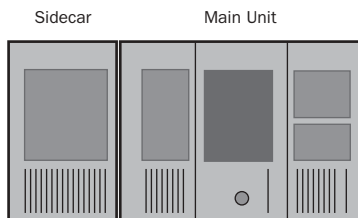
Sidecar attached to the left side of the Main Unit

Sidecar attached to the right side of the Main Unit

D-Show units should be fastened together only by an authorized technician.

In addition to the included hex wrenches, the following tools are required to attach D-Show units:

- #1 Philips screwdriver
- #2 Philips screwdriver (normal length)
- #2 Philips screwdriver (short length) for tight spaces
- Small, flat head screwdriver for lifting top panels

The process of attaching D-Show units will at times require two or more people to move the console.

To attach a Sidecar to a Main Unit or to another Sidecar:

1 Turn off the power and remove the power cable from each unit.

2 Place the units side-by-side on a flat, level work surface, arranged as you want to fasten them together.

3 Remove the 5 external hex screws in the plastic side cap on the facing side of each unit.

Removing external screws from the plastic side caps

4 Remove the hex screws on the 3 top panels (fader panel, encoder panel, and meter bridge panel) on the facing side of each unit. Be sure to keep the panel screws.
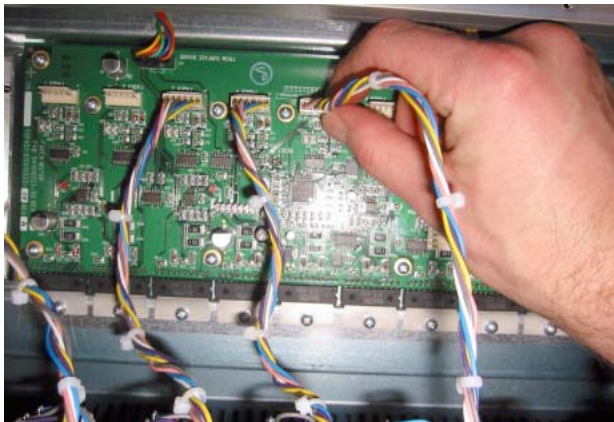

Removing screws from top panels

5 Using the small flat head screwdriver, carefully lift the panels from each unit.

Lifting top panel from the unit

6 Carefully disconnect the cables leading to each top panel, making note of each connection so you can reconnect it later.

Disconnecting cables to the top panels

7 Remove each top panel from the facing side of each unit.

*Sidecar with top panels removed from right side of unit*

8 Remove the 7 internal Philips screws connecting the plastic side cap on the facing side of each unit. There are four screws along the length of the unit, and three in the meter bridge area.

Removing internal screws from the side caps

9 Remove the plastic side caps.

10 Move the units together and attach them from the five inside holes as indicated below, using the longer Philips screws (provided). All screws are inserted from left to right (the head of each screw should be inside the leftmost of the two units). Do not tighten the screws.
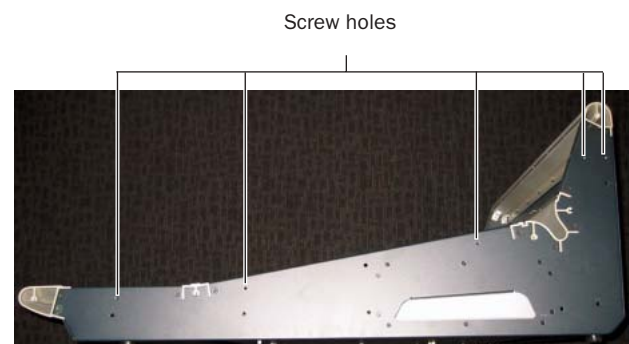
Screw holes

Location of screw holes for attaching units

11 Carefully align the top and front edges of the two units while slowly tightening each of the five internal screws.


Attaching the units with the internal screws

12 After the units have been attached, replace the top panels on each unit using the same screws you removed earlier, re-connecting their cables before fastening them to the chassis.

13 Turn the unit over and carefully place it face down on a protected flat surface, so that only the meter bridge and front edge of the units contact the floor.

14 Attach the provided brackets to the front and back rail slots on the bottom of the unit, using four small flat head Philips screws on the raised section and eight pan head Philips screws with lock washers on each side.
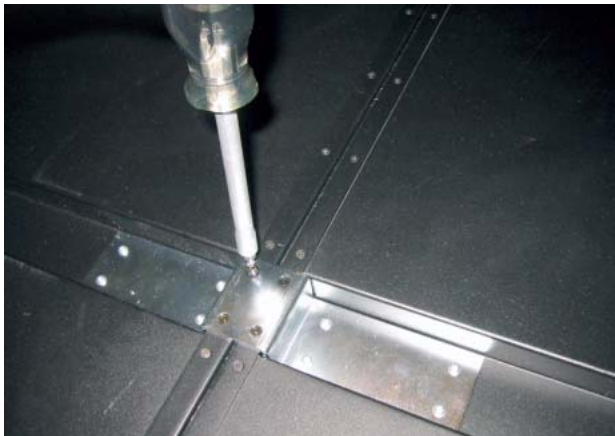
Attaching brackets to the bottom of the units