



PRELIMINARY

BSC-6 Buscard

INSTALLATION INSTRUCTIONS

OPERATING DESCRIPTION

The BSC-6 buscard is an internal adapter for 3-RU QSC PowerLight Series amplifier models. It attaches to the amplifier's input board to create an Open Input Architecture for the use of select QSC Mini Slot Accessories such as the UF-3 Universal Filter or future processing cards.

BSC-6 Kit Contents:

	Qty.
1. Buscard	1
2. Black 6-32 x 1/4" screw	2

Two switches on the BSC-6 buscard allow you to engage or bypass channels 1 and 2 of the accessory. Actuating the switches requires opening the amplifier chassis, so make certain they are in the desired position before closing the top cover of the amplifier.



INSTALLATION

Installation Tools and Materials:

1. Philips screwdriver
2. 11/32" nutdriver
3. Soldering iron and desoldering equipment
4. Rosin-core solder



CAUTION: To reduce the risk of electric shock, refer servicing to qualified service personnel.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

**Before opening the amplifier chassis,
disconnect the amplifier from AC power.**

BSC-6 BUSCARD PREPARATION

These are the steps necessary to prepare and install the BSC-6 in a QSC amplifier. To insure a successful installation, please follow these steps carefully.

The slot on the BSC-6 is fully compatible with QSC Mini-Slot accessories. Due to the limited space inside the amplifier, we recommend you install the Mini-Slot accessory on the buscard first, before attaching the BSC-6 to the amplifier's input board. Follow the accessory's installation and configuration instructions.

INSTALLATION PROCEDURE

This guide is meant to assist qualified technicians with the installation of the BSC-6. This procedure should only be performed by a QSC Authorized Service Center or by QSC Technical Services.

Before proceeding, please make sure the amplifier is not connected to AC power.

Opening the amplifier.

STEP 1.

Remove the nine Philips screws that secure the top cover to the amplifier chassis, and lift the top cover off.

Removing the input board.

STEP 2.

At the rear of the amplifier, remove the Philips mounting screws for the input board. There are two screws at each input Combo connector, two at the input barrier strip, and two at the DataPort, for a total of eight.

STEP 3.

Remove the #8-32 locknut that secures the input board's ground wire to the stud at the bottom of the chassis. Lift the ground wire terminal off the stud.

Unplug the 26-conductor ribbon plug from the input board at J32. Remove the board from the amplifier.

NOTE: J32 is a locking connector. To unplug the cable, spread the locking tabs apart; this will lift the cable plug from the pins for easy removal.

Attaching the buscard.

STEP 4.

Use the two 6-32 × ¼" screws to attach the BSC-6/accessory assembly to the input board. Mount the assembly at the two holes at the upper and lower corners of the input board nearest to the input "Combo" connectors. See photo.

STEP 5.

Attach the BSC-6's ribbon cable to the input board at jack J32. The ribbon cable is indexed, with the marked or striped conductor corresponding to pin 1. Do not twist the cable, but instead keep it in the same vertical orientation so that the index corresponds to pin 1 of the jack. Press the plug firmly into the jack and squeeze the locking tabs together to hold the plug in place. See photo.

Re-assembling the amplifier.

STEP 6.

Attach the amplifier's input ribbon cable to the buscard at jack J2. Make sure the indexed conductor corresponds to pin 1 of the jack.

STEP 7.

Place the input board's ground wire on the ground stud on the bottom of the amplifier chassis. Make sure any other ground wires are in place, too, and then secure them with the #8-32 locknut.

STEP 8.

Double-check the accessory settings, and set the BSC-6's switches, SW1 (channel 1) and SW2 (channel 2) as desired:

OUT = accessory bypassed, and IN = accessory engaged.

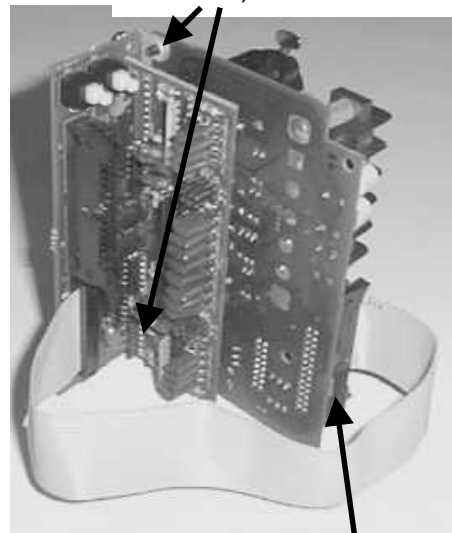
STEP 9.

Carefully position the input board in its correct place and reinstall the mounting screws.

STEP 10.

Reinstall the top cover. The unit is now ready for use.

#6-32 × ¼" mounting screws
(the bottom one is hidden in
this view.)



Ribbon cable
inserts into
jack J32.

**FOR FURTHER ASSISTANCE, PLEASE CONTACT
QSC TECHNICAL SERVICES
1-800-772-2834 (USA only)
1-714-957-7150**