



Title: **HPR power connector upgrade**  
Bulletin #: HPR0004 Issue Date: March 19, 2008  
Models Affected: All (optional) Bulletin Revision: B  
Production Range: Prior to December 2007

## Description

Beginning in December 2007 (serial number date code xL7xxxxxx; L = "December" and 7 = "2007"), HPR loudspeakers have been equipped with locking IEC connectors and power cords, shown in Figure 1. This bulletin describes how to retro-fit them into earlier HPR versions. This should be done only by qualified service personnel.

The different IEC connectors can be identified by color: the non-locking connectors are black, and the locking ones are blue. Power cords with locking connectors are not compatible with the non-locking chassis IEC connectors.



Figure 1. The new locking IEC connector and power cord.

## Instructions

### Tools and materials required

- Philips (cross) #2 screwdriver
- Small slot screwdriver (HPR122i, HPR152i, HPR153i, HPR151i, and HPR181i)
- Latching 15-ampere IEC mains inlet, QSC part # CO-000360-GP
- **120V:** Latching IEC power cord with NEMA 5-15 plug, QSC part # WC-000361-GP
- **230V:** Latching IEC power cord with CEE 7/7 plug, QSC part # WC-000362-GP
- Heat shrinkable tubing, 6 mm diameter, QSC part # WC-000423-GP, three pieces
- Soldering iron and lead-free electronic solder
- Heat gun
- Adhesive: Hot glue—multi-temp general purpose (preferred)—or RTV silicone

### Procedure

1. Disconnect the loudspeaker's power cord from the AC outlet.
2. Remove the 25 screws that secure the amplifier module to the enclosure.
3. Carefully lift the module out of the enclosure. Do not strain the wires connected to the module.
4. Disconnect the power LED wires from header J304A (Figure 2).
5. Disconnect the loudspeaker wires from the module. The HPR152F, HPR153F, HPR151w, and HPR181w models use a detachable Molex connector (Figure 3), while the HPR122i, HPR152i, HPR153i, HPR151i, and HPR181i models use screw terminals (Figure 4). The module is now free of the enclosure, and you may set it down on your work surface.
6. Cut away and remove the heat shrinkable tubing on the three wires connected to the IEC connector (Figure 5).

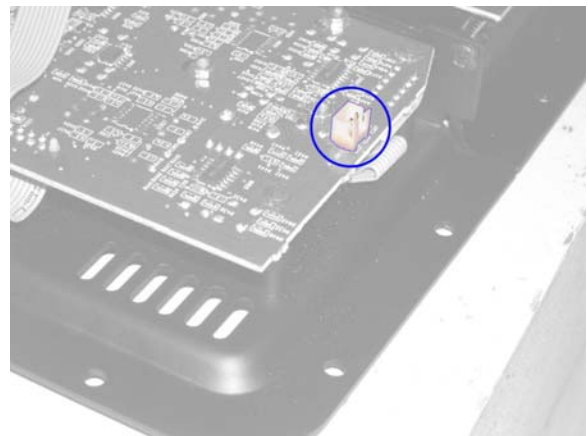


Figure 2. Location of J304A, the connection for the power indicator LED on the front grille.

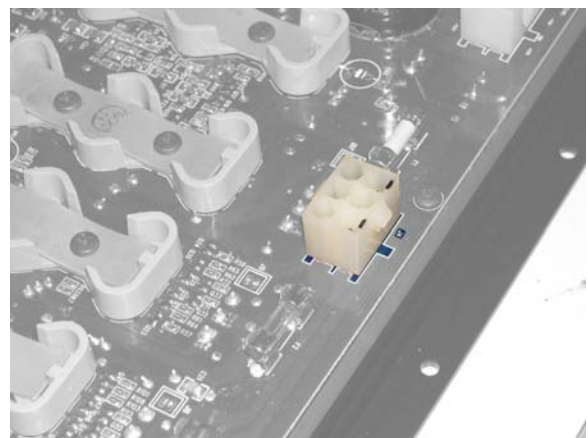


Figure 3. The loudspeaker wire connection on the HPR152F and HPR153F.

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7. Unsolder and detach the wires from the IEC connector.
8. Unscrew and remove the IEC connector from the chassis. The screws will be reused with the new connector.
9. Attach the new latching IEC connector to the chassis. Tighten the mounting screws securely.
10. Slip a piece of heat shrink tubing over each of the three AC wires and slide them up out of the way.
11. Solder the AC wires to the corresponding terminals on the IEC connector.



**WARNING:** Follow the wire color code arrangement shown in Figure 5: yellow/green to ground, brown to live (L), and blue to neutral (N).

12. Slide the pieces of heat shrink tubing over the soldered connections. Use a heat gun to shrink the tubing snugly in place.
13. Reconnect the loudspeaker wiring and power LED wires to the module. Apply a dab of adhesive to the connector to keep it from pulling off of the module and allow the adhesive to harden. We recommend hot glue because it hardens quickly, but RTV silicone is also acceptable and convenient.
14. Reinstall the module into the enclosure. Tighten the screws securely.

### Quality review

15. Connect the new latching power cord to the loudspeaker. Test the loudspeaker for proper operation.

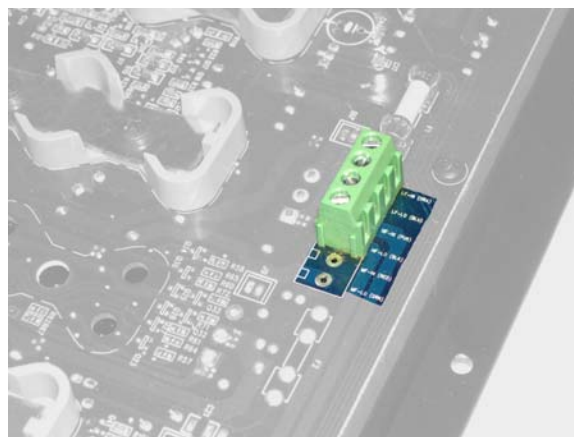


Figure 4. The screw terminal connection for the loudspeaker wires on the HPR122i. Those for the HPR152i, HPR153i, HPR151i, and HPR181i are similar.



Figure 5. The IEC connector, as mounted to the HPR amplifier module chassis. Note the wire colors and the terminals they connect to; the new connector must be wired exactly the same way.

## Contact information

If you need any further information regarding this service procedure, please contact QSC Technical Services at the addresses or numbers below.

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