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Title: **Replacing HPR 122i woofers**
Bulletin #: HPR0002 Issue Date: May 7, 2007
Models Affected: HPR 122i Bulletin Revision: Rev. C
Production Range: March 2007 and earlier (see serial number date code guide below)

Description

In some HPR 122i powered loudspeakers manufactured *prior to* April 2007 (see Table 1; this bulletin applies to date codes **I6** through **C7**, with the exceptions of **GB7330741** through **GB7330980**, and **GC733001** or later), the woofer voice coil has seized due to part of the magnet structure's having shifted position.

NOTE: This type of failure is likely to affect only original drivers in some but not all HPR 122i units made during this time span. For those that do fail in this way, there is no singular cause, and the failures may occur at once or over some time. This condition is not repairable through reconing; instead, the entire driver must be replaced.

QSC recognizes that HPR users may need fast service, so we will ship a replacement driver overnight, free of charge, to any HPR owner in the US who has experienced this failure. (HPR owners outside the US must contact their QSC distributor.) The driver part number is SP-000107-GP; to order, contact QSC Technical Services (see the contact information on page 2).

Replacing the driver requires only a Philips screwdriver and a 4 mm or 5/32" Allen wrench.

Table 1. HPR 122i serial number date code

G X X 33xxxx	
Month	Year
A = Jan	6 = 2006
B = Feb	7 = 2007
C = Mar	
D = Apr	
E = May	
F = Jun	
G = Jul	
H = Aug	
I = Sep	
J = Oct	
K = Nov	
L = Dec	

Instructions

Tools and materials required

- Philips (cross) screwdriver
- 4 mm or 5/32" hex (Allen) wrench or bit
- 12" replacement driver (QSC part # SP-000107-GP)
- Gasket (closed-cell adhesive foam weatherstrip, approx. 3 mm or 1/8 in wide x approx. 1 m or 39 in long; included with replacement driver)

Procedure

1. Disconnect the loudspeaker's power cord from the AC outlet.
2. Remove the front grille. There are 16 Philips-head screws that secure it to the enclosure. Set the grille and screws aside.
3. Remove the four hex socket-head mounting screws around the circumference of the woofer driver. Support the driver while you loosen and remove the screws. Each screw has a small lockwasher; be careful to not lose it. Set the screws and their lockwashers aside.
4. Carefully lift the driver from the enclosure. There will be two wires attached to the driver, so be careful to not strain them.
5. Disconnect the wires from the driver terminals and completely remove the driver. Note that the orange wire connects to the + terminal, and the blue wire to the - one. The new driver will connect the same way.
6. On the new woofer driver, apply the gasket strip to the mounting flange (Figure 1). Do not cover the mounting holes. Overlap the ends slightly and cut off any excess. Connect the two wires to their respective terminals.



Figure 1. The orange wire connects to the + terminal, and the blue wire to the - terminal.

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7. Place the new driver in the enclosure opening and align its mounting holes with those in the enclosure. With their lockwashers in place, insert the mounting screws and thread them in until they are almost tight.
8. If a micro-torque wrench and suitable hex bit is available, tighten the screws to the correct torque shown in Table 2. Tighten the screws in an alternating criss-cross sequence (Figure 2). If you don't have a micro-torque wrench, tighten the screws firmly, but do not overtighten.
9. Re-install the grille on the enclosure. **CAUTION:** When re-installing the screws, be aware that the middle hole on the bottom edge of the grille (Figure 3) is for the power LED, not a screw. Inserting a screw into that hole can damage the LED.

Table 2. Mounting screw torque.

Amount	Units
33–35	kgf-cm
3.2–3.4	N•m
29–30	in-lbf

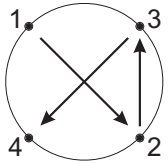


Figure 2. Tightening sequences for 12" driver.



Figure 3. Don't put a screw into the LED hole.

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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