Service Bulletin

QSC™

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Title: **HPR153F, HPR153i, HPR122i compression drivers**

Bulletin #: HPR0003 Issue Date: October 21, 2008

Models Affected: HPR122i, HPR153i, HPR153F Bulletin Revision: Rev. D

Production Range: All HPR153F; HPR122i prior to serial number GJ8330251; HPR153i prior to serial number GJ8360009. (See serial number date code guide on next page.)

Description

A certain Celestion compression driver used in the HPR153F, HPR153i, and HPR122i powered loudspeakers has shown a higher than normal tendency to fail under normal usage because of breakage in the tinsel wire between the terminals and the voice coil. The driver cannot be repaired and must be replaced.

The current revision of the compression driver has improved tinsel wire that is more resistant to breakage.

Affected models are HPR153F (all serial numbers), as well as HPR122i (up to and including serial number GJ8330250) and HPR153i and (up to and including serial number GJ8360008). See Table 1 for a guide to identifying serial number date codes.

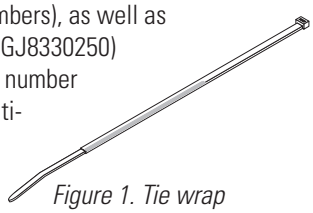

Figure 1. Tie wrap

Instructions

Tools and materials required

- Philips (cross) screwdriver
- Replacement compression driver (QSC part # SP-000086-GP), *with a date code of 17 October 2008 or later* (see Table 2 on next page)
- Tie wrap (Figure 1), 6" (150 mm) or longer
- Threadlocking compound (Loctite® Threadlocker Blue or equivalent)

Disassembly

1. Disconnect the loudspeaker's power cord from the AC outlet.
2. Remove the Philips-head screws that secure the front grille to the enclosure. Set the grille and screws aside.

See Figure 2 (for the HPR153i) or Figure 3 (HPR122i).

3. Remove the screws ① that secure the waveguide ② to the enclosure. There are 10 screws on the HPR153i and four on the HPR122i.
4. Carefully lift the waveguide from the enclosure. There will be wires attached to the drivers, so also be careful to not strain them.
5. Disconnect the wires from the compression driver terminals and cut away any tie wraps that may have been used to secure the wires to the driver for strain relief. Note that the purple wire was connected to the **+** terminal, and the black wire to the **-** one. When it is time for reassembly, the new driver will connect the same way.
6. On the HPR153i, remove the support bars ③ and ④ from the compression driver. Set the screws ⑤ aside.
7. Remove the screws ⑥ that secure the compression driver ⑦ to the

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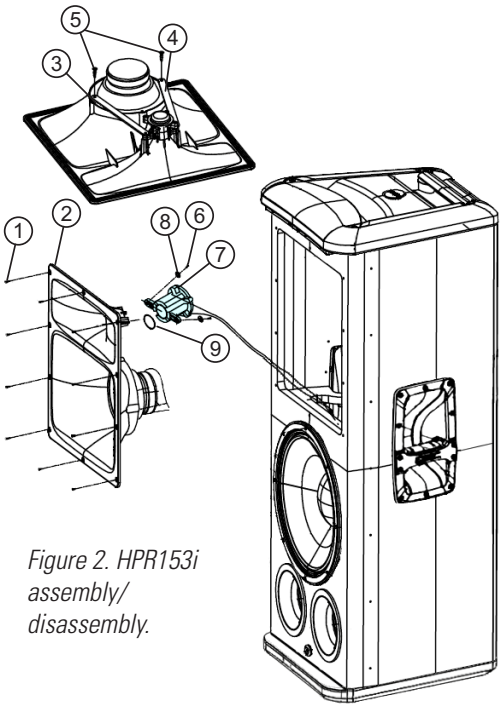


Figure 2. HPR153i assembly/ disassembly.

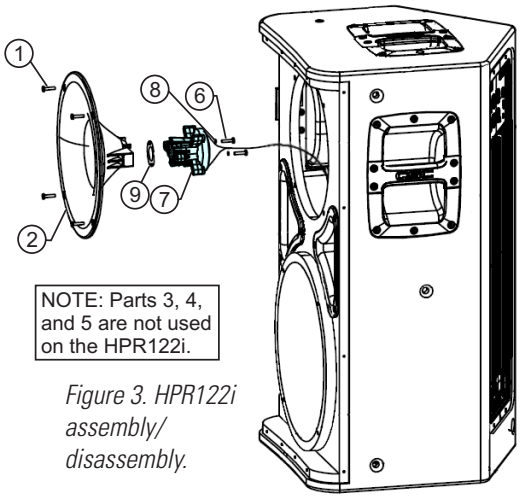


Figure 3. HPR122i assembly/ disassembly.

waveguide. Set the screws and washers ⑧ aside.

8. Detach the compression driver from the waveguide. Remove the gasket ⑨ from between the driver and the waveguide. Discard the old driver.

Reassembly

9. Place the gasket on the throat of the waveguide and set the new compression driver in place on it. Attach the driver to the waveguide using the screws ⑥ and washers ⑧. Tighten the screws securely but do not overtighten them.
10. On the HPR153i, apply threadlocking compound to the screws ⑤ and reattach the support bars on the compression and midrange drivers. Tighten the screws securely but do not overtighten them.
11. Reattach the wires to the compression driver terminals (purple to **+**, black to **-**). With the tie wrap, secure the wires to the body of the compression driver so the connections do not have excessive strain (Figure 4). After you tighten the tie wrap fully, cut off the excess length.
12. Reattach the waveguide to the enclosure. Tighten the screws in a crisscross pattern.

Quality review

13. Test the loudspeaker for proper operation.
14. Reinstall the grille. Do not mistake the LED hole in the bottom center for a screw hole; inserting a screw could damage the LED.

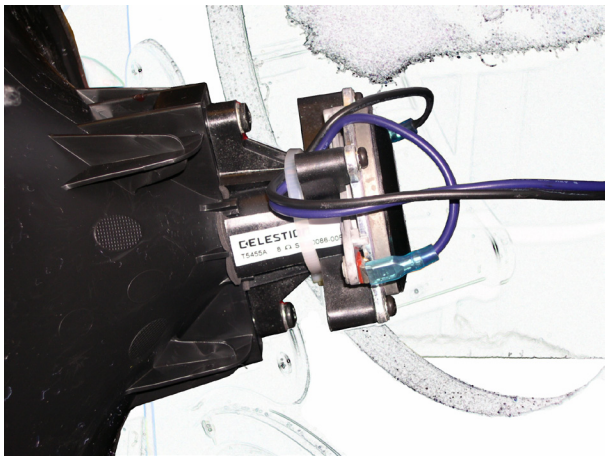


Figure 4. To provide mechanical strain relief, use a tie wrap to secure the wires to the body of the compression driver.

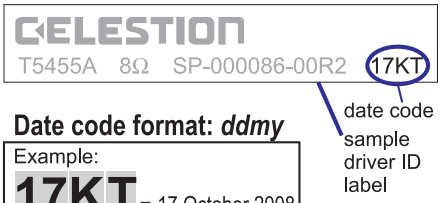
Table 1. Date codes in HPR serial numbers.

G *X* *X* 33xxxx

Month	Year
A = Jan	6 = 2006
B = Feb	7 = 2007
C = Mar	**8 = 2008**
D = Apr	
E = May	
F = Jun	
G = Jul	
H = Aug	
I = Sep	
J = Oct	
K = Nov	
L = Dec	

Affected units have a date code earlier than J8 (October 2008) *Units with serial number of GJ8xxxxx and later are not affected by this bulletin.*

Table 2. The compression driver's date code is found on an ID label. The replacement drivers must have a date code of 17 October 2008 or later.



Date code format: *ddmy*

Example:

17KT = 17 October 2008

Date (two digits)	Month	Year
	A January	**M** 2002
	B February	**N** 2003
	C March	**P** 2004
	D April	**Q** 2005
	E May	**R** 2006
	F June	**S** 2007
	G July	**T** 2008
	H August	**U** 2009
	J September	**V** 2010
	K October	**W** 2011
	L November	
	M December	

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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