

TSS 3-IN-1

Infinity Loudspeaker Troubleshooting/Repair Tips

Most customers prefer to do simple loudspeaker repairs themselves. By following the steps below, a majority of loudspeakers can be returned to their original factory performance with minimum effort. Choose the example that best describes the problem you are experiencing.

Problem 1: No sound or distorted sound from one loudspeaker in a pair (or set)

Connect the dead/distorting loudspeaker to a different amplifier channel (one that had a functioning loudspeaker connected to it). If it functions normally, the problem is not loudspeaker-related. If the loudspeaker still makes no sound or sounds distorted, a wire may have become loose or disconnected, the network (also known as a crossover) may be defective, the drivers (woofer, tweeter, etc.) may be defective or, in very rare cases, all may be defective.

Refer to the wiring diagram and exploded view below. The network is a small circuit board found on the inside of the terminal cup, or mounted to an inside wall of the enclosure. It sends low-frequency sounds to the woofer, high-frequency sounds to the tweeter and, if applicable, mid-frequency sounds to the midrange driver. Make sure all wires are secure and connected. Look for components on the network that look burnt, "bulged," or abnormal. If everything looks normal, connect the network to the drivers from another matching loudspeaker. **MAKE SURE** you attach the correct wires to each driver – mid- and low-frequency sounds can damage the tweeter! If there is still no sound or distorted sound, the network is defective. If there is clean undistorted sound, the drivers are defective.

Problem 2: No sound or distorted sound from one or more (but not all) drivers in an enclosure

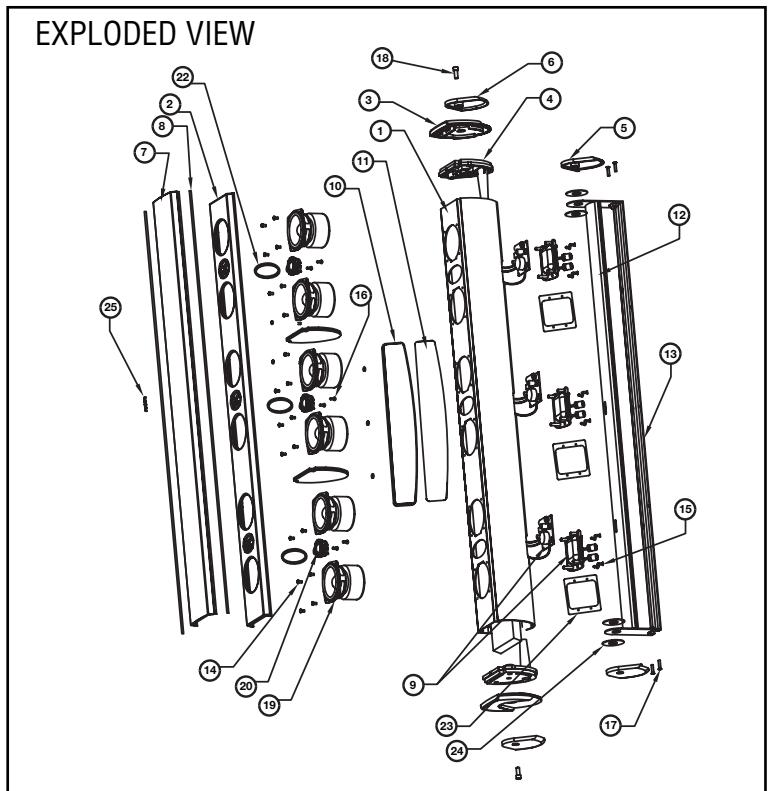
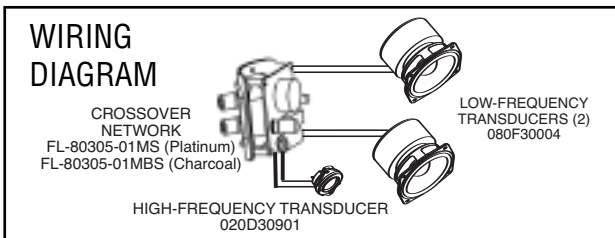
Remove the problem driver(s) from the enclosure and make sure all wires are secure and connected. If they are, proceed with the following test:

Woofer or midrange driver – Connect the driver's + and – input terminals directly to the loudspeaker wires from your receiver/amplifier and play some music at a reasonable volume. If the driver now sounds normal (produces a clean, undistorted sound), the network is most likely defective.

Tweeter – Replace the tweeter with a functioning tweeter from another loudspeaker. If the tweeter now functions normally (produces clean, undistorted sound), the original tweeter is defective. If the replacement tweeter also sounds distorted or produces no sound, the network is most likely defective.

Problem 3: Loudspeakers distort, rattle or pop at higher volumes

This is usually NOT a loudspeaker problem. Common causes are too much power (playing the loudspeakers too loud and causing them to distort), an amplifier with not enough power (the amplifier can't produce the required volume without distorting), excessive equalization (turning the tone controls too far clockwise, and/or engaging the loudness/bass boost button on your receiver) or some combination of the above. If only one loudspeaker is exhibiting the problem, and you're confident that it's not caused by too little power/too much power/excessive equalization, see solutions for Problems 1 and 2.



ITEM NO.	DESCRIPTION	QTY.	PART NO.
1.	Aluminum cabinet	1	Not For Sale
2.	Plastic front baffle (Platinum)	1	FA-80317-02
	Plastic front baffle (Charcoal)	1	FA-80317-01
3.	Top/bottom cap (Platinum)	1	FE-80312-02
	Top/bottom cap (Charcoal)	1	FE-80312-03
4.	Plastic inner cover	1	Not For Sale
5.	Wall-mount end caps, small (Platinum)	2	BP1-80312-02
	Wall-mount end caps, small (Charcoal)	2	BP1-80312-04
6.	Wall-mount end caps, large (Platinum)	2	BP2-80312-03
	Wall-mount end caps, large (Charcoal)	2	BP2-80312-05
7.	Front grille (Platinum)	1	NT-80317-02
	Front grille (Charcoal)	1	NT-80317-01
8.	Front grille gasket	2	PK-0106-01
9.	Crossover network (Platinum)	3	FL-80305-01MS
	Crossover network (Charcoal)	3	FL-80305-01MBS
10.	Speaker base (Platinum)	1	SB-80317-02
	Speaker base (Charcoal)	1	SB-80317-01
11.	Speaker-base gasket (Platinum)	1	PK-0107-02
	Speaker-base gasket (Charcoal)	1	PK-0107-01
12.	Wall-bracket cover (Platinum)	1	SP-80317-03
	Wall-bracket cover (Charcoal)	1	SP-80317-01
13.	Main wall bracket (Platinum)	1	SP-80317-04
	Main wall bracket (Charcoal)	1	SP-80317-02
14.	Screw, woofer M4*7	24	SR-2104-07
15.	Screw, terminals M3.5*12 (Platinum)	12	SR-2435-12
	Screw, terminals M3.5*12 (Charcoal)	12	SR-2435-12B
16.	Screw, tweeter M3.5*10	6	SR-0535-10
17.	Screw, wall bracket M4*18 (Platinum)	4	SR-0304-18
	Screw, wall bracket M4*18 (Charcoal)	4	SR-0304-18A
18.	Screw, top cap M6*18 (Platinum)	2	SR-1006-18
	Screw, top cap M6*18 (Charcoal)	2	SR-1006-18A
19.	3.5" Woofer	6	080F30004
20.	3/4" Tweeter	3	020D30901
21.	Hex wrench	1	HW-4001-01
22.	Gasket, front baffle	3	PK-80311-02
23.	Gasket, network	3	PK-80307-01
24.	Gasket, wall bracket (Platinum)	4	PK-1019-01
	Gasket, wall bracket (Charcoal)	4	PK-1019-02
25.	Logo	1	AL-80305-01
26.	Outer carton (Platinum)	1	BO-80317-01
	Outer carton (Charcoal)	1	BO-80317-03
27.	Packing polyfoam, set complete	1	PO-80317-01/2/3
28.	Owner's manual	1	ML-80317-01
29.	Warranty card	1	WC-TSS4000-01

TO SERVICE THE TSS 3-IN-1

1. Remove both end caps with a 4mm or 5-32" Allen wrench (hex key).
2. Gently pull up the metal grille from one end, and remove grille.
3. Remove the plastic front baffle by using a small screwdriver on one corner of the front baffle and lifting the baffle corner away from the cabinet (see illustration).
4. Once one corner is lifted away, reach under the front baffle to pull and extract both sides of the front baffle from the cabinet, on that end. This is complicated by the fact that three tweeters, bolted to the front baffle, are also attached with adhesive, so each bead must be carefully broken.
5. CAUTION: Once the baffle starts to separate from the cabinet, do not lift the baffle too high off the cabinet and attempt to remove it; the tweeter wires – three sets – are attached. The tweeter wire clips must be detached from the tweeters as the baffle is removed.
6. Once the front baffle is removed, all drivers are exposed for servicing. The crossover network(s) is attached to the inside of the cabinet, and woofers may need to be removed to replace the network(s).
7. Upon reassembly, there should still be enough adhesive left on the baffle to reattach it to the cabinet face; if not, apply a light coating of contact cement, silicone seal, or similar adhesive to the surfaces around the tweeters.

