

# BP3000TL, BP2000TL, BP2002TL, BP2004TL, BP2004 INT, BP2006TL

THE FOLLOWING WILL DETAIL THE AMPLIFIER REMOVAL PROCESS FOR DEFINITIVE  
TECHNOLOGY MODELS BP2000 OS AND BP2002 OS.

The speaker should be unplugged from any receiver or power amp that it may be plugged into. Disconnect the speaker from AC power at least 60 minutes prior to starting. Gather the tools you will need in a clean well-lighted place:

- a Phillips head screwdriver,
- a flat head screwdriver,
- 2 small plastic cups for screws
- a (small or tack) hammer,
- a needle nosed pliers (recommended)
- a digital camera (or pen and paper).
- Masking tape (optional)

## REMOVE THE LOW-LEVEL AMPLIFIER

1. Lay the speaker down gently on its belly, so that the amplifier to be removed (entire back panel) is facing toward the ceiling.

2. Remove the screws that are along the outer edge of the back panel.

**CAUTION: Only remove the screws along the outer edge of the back panel.**

As you get the screws out drop them into the plastic cup to keep track of them. It is very important that you retain all the original screws.

3. You may use the power cord as leverage to remove the amplifier. It can stick and this process needs to be done carefully.

- a. Stand over the speaker with one foot on each side.
- b. Grasp the power cord securely with your dominant hand.
- c. Place your off hand on the speaker, such that only the corner of the back plate is beneath your palm. It should be the corner closest to the power cord.
  - i. With the corner of the back plate beneath your palm you do not have to worry about pulling the entire amp out while still connected.
- d. Pull up on the cord while pressing down on the speaker with your offhand.
  - i. Do not yank the cord like you are trying to start a lawnmower, instead apply steady but increasing pressure.
  - ii. Pull up with as purely vertical a motion as possible.
- e. Once the incidental seal between the back panel and gasket is broken you can ease off the tension.
- f. Next take your flat head screwdriver and lift out the amp with your free hand while pressing the gasket back down into place with the flat screw driver head
- g. Once free from the gasket, remove the back panel using as purely vertical of a motion as space will allow. **Use caution: although we have freed the amp from the gasket, it is still connected via wires to internal components.**

## CROSSOVER WIRING

1. Once free, the amp should be rotated sideways so it gently rests across the recently vacated opening. Now take a moment to prepare for the reinstallation.
  - a. Snap some pictures to be sure you maintain the orientation of which wires connect to which jumpers. Do not rely solely on memory.
  - b. Alternately take notes, such as: X colored wire is connected to the amp board posts labeled JP1. Y colored wire is connected to the amp jumper post labeled JP2 and so forth...
  - c. Once you have a COMPLETE reference for reconnection, the wires may be removed.
    - i. One set gets disconnected from the inside of the binding posts labeled “high”. These wires stay connected to the crossover.
    - ii. One set gets disconnected from the inside of the binding posts labeled “mid”. These wires stay connected to the crossover (BP2000/BP2002).
    - iii. One set gets disconnected from the inside of the binding posts labeled “low”. These wires stay connected to the crossover.
    - iv. BP2004int, BP2004tl and BP2006tl only have one set of speaker wires to disconnected.
2. Now that you have marked your crossover wires, needle nose pliers should be used to grasp and remove, using as purely lateral of a motion as possible.
  - a. Try not to put torsional pressure on the tabs.
  - b. Be sure to grasp the fast on connector above the male tab sticking up off the board and below the wire itself. Aim for the root of the fast on connector where it grabs onto the wire.
3. There will also be one or two wire harnesses between the high level amp and the low level amp. These must be removed as well but need not be labeled as they are Molex.

## REMOVE HIGH-LEVEL AMP

1. The high-level amplifier can be located just inside the cabinet, right behind the low-level amp. BP3000tl high-level amp is the exception, located on the floor of the cabinet.
  - a. The high-level amp is mounted to four aluminum fins, in turn secured to a cross brace by 8 Phillips head screws. BP2004 int only has two aluminum fins.
2. Remove the two fast-on connectors that connect the high level amplifier to the woofer. As before (binding post fast-ons), be sure to remove the connector using as purely vertical a motion as possible with no torsional stress.
3. Remove these 8 Phillips Head screws and place them in the second plastic cup.
4. Remove the high level amp from the cabinet.

## GASKET

Once you have the amp completely removed use a hammer to gently but firmly tap the staples securing the gasket back into place.