

ENBC6F Retrofit Kit For 6" LED Downlight



Features & Benefits

- Maintains the original installed look
- Typically half the power consumption
- Typically 25% more light
- Power supply and module are UL recognized
- Two color versions available:
 - Warm White 2700K (similar to incandescent)
 - Halogen White 3500K
- 120VAC input
- Dimming to 5% with triac or ELV dimmers
- 277VAC input non-dim available, consult factory
- Customer tools required:
 - Drill and 3/16" drill bit
 - Vice or similar clamp for drilling
 - Wire cutters/stripper
 - Small Philips head screw driver



Part Number Ordering Guide

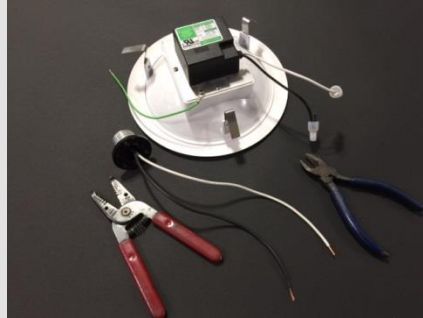
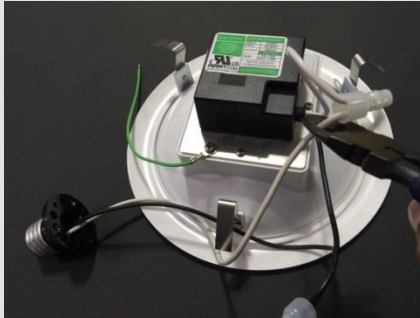
ENBC6F-RETRO-DIM-WW 120VAC, dimmable, warm white
ENBC6F-RETRO-DIM-HW 120VAC, dimmable, halogen white

Application Notes

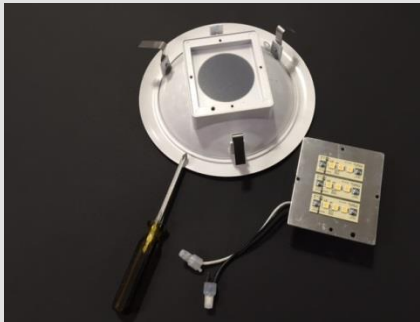
1. Permlight recommends installation by qualified electrician and assumes no liability for labor or installation defects. This product is designed only for interior application. Consult the factory for exterior application.
2. Detailed specifications for LED driver per PS12 data sheet, LED module per BB12RE data sheet.
3. The components must be installed per instructions herein and affixed only with the supplied tape and wire nuts to meet the warranty conditions.
4. Abnormal operating conditions such as elevated ambient temperatures can be expected to negatively impact lumen output, product lifetime and/or performance.

Retrofit Removal and Installation Instructions

1. Turn OFF the power switch to the ENBC6F fixture.
2. Unscrew the male screw base and remove the ENBC6F fixture from the can housing. Be careful not to bend or break the spring clips that hold the fixture in the ceiling. A gentle rotating motion typically works best or use a flat-head screw driver to push clips inwards.
3. Cut the black and white wires so that there is at least 6" wires left on the male screw base. Strip back both wires $\frac{1}{8}$ " and save the male screw base for later assembly.



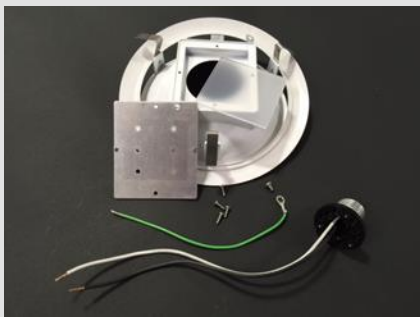
4. Remove (4) screws holding the flat aluminum heatsink to the bowl and (1) screw holding the green ground wire and save for later assembly.



5. Remove (6) screws holding BL25 driver, (3) modules, (6) bushings and discard these

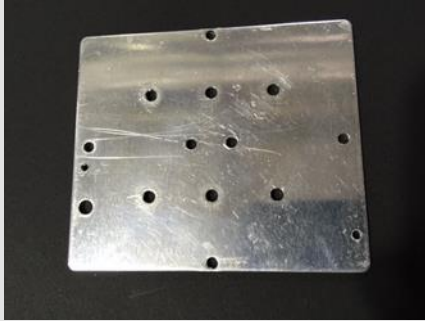


6. Remaining parts should be: bowl, trim ring, rectangular aluminum plate, (4) small screws, plastic lens, green ground wire with (1) larger screw and screw base with stripped wires.

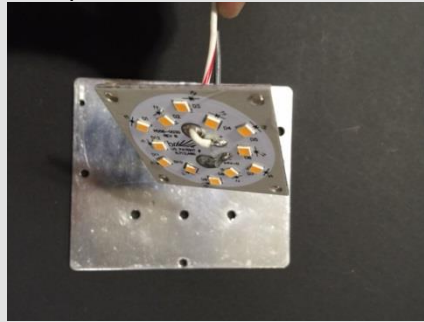
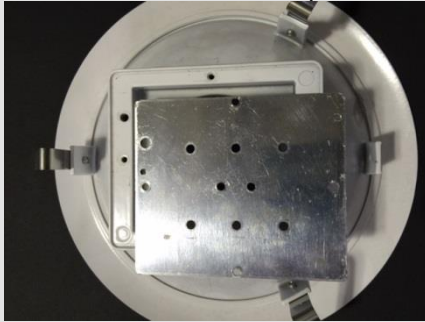


Retrofit Removal and Installation Instructions (Continued)

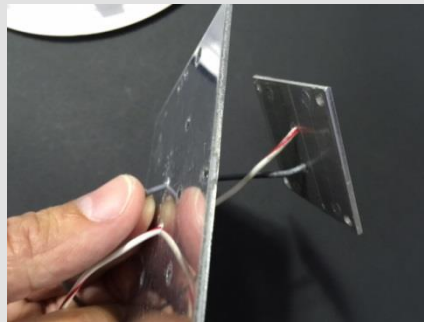
7. Clamp the rectangular aluminum plate in a vice. Do not try to hold in your hand because it may spin and cause injury. Drill (2) 3/16" holes spaced 1/2" apart in center of heatsink for the LED module BB12RE wires to fit through. Precise location is not critical, the module does not have to be in the exact middle of heatsink plate. De-burr or file down the drill holes on both sides so that the LED module BB12RE will lay flat against the heatsink and burrs will not cut wire insulation.



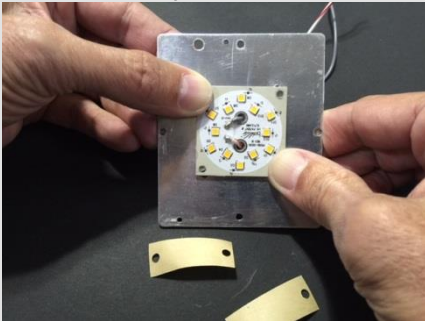
8. Align the ground screw hole in the heatsink with the bowl to determine which side is the bottom of the fixture (towards the lens).



9. Peel the supplied peel and stick 3M 468 tape and be careful not to attach tape until module is positioned correctly. Tape can not be re-used, you can request new tape from the factory if needed. Route the wires through the drilled holes and attach module to the bottom of the heatsink.

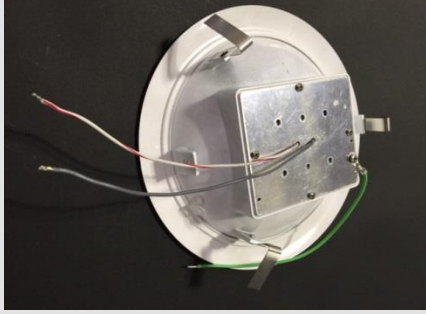


10. Use fingers only and press for 15 seconds until tape holds. Press on the metal edges of the module, do not touch the LED (little white/yellow squares) and do not use any tool.

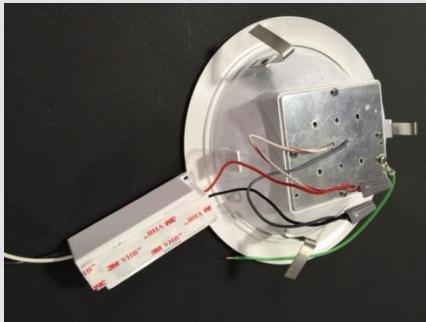


Retrofit Removal and Installation Instructions (Continued)

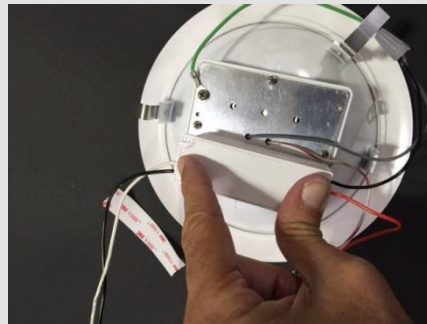
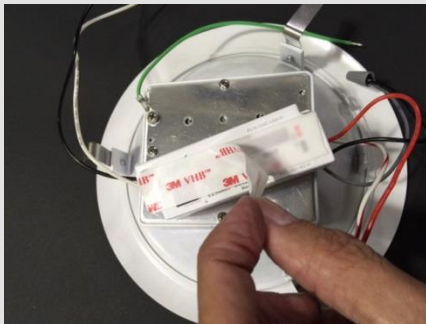
11. Re-attach heatsink to bowl with (4) screws and green ground wire with (1) larger screw.



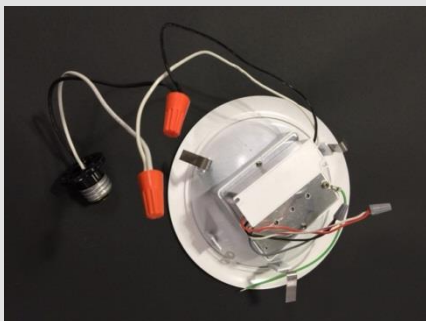
12. Attach module leads to driver leads with (2) gray wire nuts supplied. Module white/red stripe attaches to driver red, module gray attaches to driver black.



13. Peel the supplied peel and stick 3M VHB tape and be careful not to attach tape until driver is positioned correctly. Tape can not be re-used, you can request new tape from the factory if needed. Attach driver to heatsink, press for 15 seconds until tape holds.



14. Attach driver wires to screw base wires with (2) orange wire nuts supplied. Black to black, white to white.



Retrofit Removal and Installation Instructions (Continued)

15. Screw male base back into housing female socket and attach green ground wire to ground screw in housing or fixture.
16. Make sure none of the wires will be pinched or shorted, use zip ties or wire ties if needed. Do NOT put wires near spring clips, they are sharp and will cut the wires.
17. Gently push fixture up into can housing until springs hold flush with ceiling.
18. Turn ON the power switch to ENBC6F fixture.

Options available

Other input voltage, power ratings, number of LED, CCT and CRI available on special order

Packaging

Product is marked with SKU and lot information on non-LED side of module.

Sold in groups of (1) unit(s) and packaged in ESD bags with SKU and lot information.

Warranty

5-Year limited warranty in accordance with published warranty conditions. Product must be used with compatible components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system. If product is used with other manufacturer's product, compatibility must be recognized in writing by Permlight Technologies.

Permlight Technologies owns the following United States patents of which one or more may be applicable to the design and/or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.