

Installation Instructions – IP3AS/ P3SQAS/ P3ASCP/P3SQAS-CP IRiS Shallow Recessed Adjustable LED

WARNING



Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards- Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.



Risk of Fire and Electric Shock- Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.



Risk of Fire- Minimum 90°C supply conductors. For Non-IC fixtures do not install insulation within 3 inches (76 mm) of any part of the luminaire fixture or in a way that may entrap heat.



Risk of Burn- Disconnect power and allow fixture to cool before handling or servicing.

Risk of Personal Injury- Due to sharp edges, handle with care.

Failure to comply with these instructions may result in death, serious bodily injury and property damage.

DISCLAIMER OF LIABILITY: Cooper Lighting Solutions assumes no liability for damages or losses of any kind that may arise from the improper, careless, or negligent installation, handling or use of this product.

IMPORTANT: Read carefully before installing the fixture. Retain for future reference.

Note: Do not energize the LED Engine until the protective cover has been removed with the optic and lower trim properly installed. Do not touch the surface of the LED as it may damage the light engine.

SAFETY INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be followed, including the following:

1. This unit is for recessed mounting only.
2. Do not use this equipment for other than the intended use.
3. Install only in accordance with National Electrical Code and local regulatory agencies' requirements.
4. For safety, always wear gloves and safety glasses when handling the luminaire—from unpacking through installation and maintenance.

Tools Required:

#2 X 4" Phillips screwdriver

Right angle ratchet and 1/4" hex socket

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INSTALL FROM BELOW INSTALLATION

Fixture is designed for installation where it may come in contact with insulation (IC-Rated)

Note: not all configurations are IC-rated—some must be installed away from insulation. Always confirm the fixture type and rating before installation

Installation In New Construction

1. Extend bar hangers to fit between joists. Position fixture by hammering nails into joists. Hanger bar flange should be against bottom of joist (Figure 2).
2. Bar Hangers may be shortened to fit 12" (30.5 cm) and extend max to fit 24" (61 cm) on center framing, remove hanger bars from housing by depressing tab and sliding apart (Figure 3). Break off at score lines by bending in direction shown – no tools required. (Figure 4).
3. Follow steps 1 through 4 under "Electrical Connection"
4. Position fixture on hanger bars. To secure fixture position in ceiling tighten hanger bar locking screw to lock fixture in place on bars (Figure 1).
5. Once the ceiling is installed, remove the overspray protector, adjust fixture for ceiling thickness by loosening the 4 hex screws that attach the collar to the housing. Bring the bottom edge of collar flush with the finished ceiling (Figure 5) and tighten 4 hex screws. If ceiling thickness is greater than 7/8" and up to 2-1/2", replace existing collar with extension collar (PCE3* or CA3*) and adjust height using hex screws (see figure 8 and 9) as per the Extension-Collar-installation-instructions sheet # IL53450325. If Knife edge adaptors (CA3*) are used. Self-Flange adaptor which is part of the housing has to be removed before installing the fixture in the ceiling.
6. For square apertures, the edges of the collar may be adjusted to align them parallel with room walls. This can be done by reaching into the cutout and loosening the wing nut inside housing as shown in figure 6. Note: the optics may need to be removed to access these screws, see the section on replacing optics. The entire turntable can be rotated by grabbing the edge of the collar until it is aligned as desired. The turntable wing nuts should be tightened again, (and the optics module replaced, if it was removed).
7. See the chart above for appropriate cut-outs (square vs. round, standard vs. Knife edge).
8. For situations where the housing lid is accessible after housing installation, see figure 10 for removal.

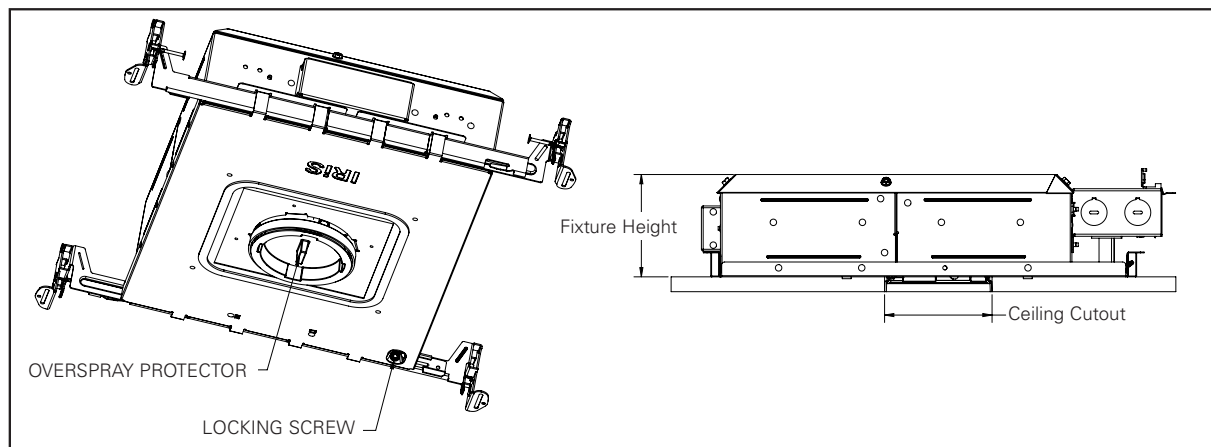


Figure 1.

Catalog Number	Aperture	Ceiling cutout - Self flanged/ knife Edge for Mud-in (plaster)/ knife edge for millwork (hard ceiling)	Fixture Height	Plenum Type
P3AS*/P3ASCP*	3.375"	3 11/16" /3 11/16"/ 3 1/2"	3.5"	IC
P3SQAS*/P3SQASCP*	3.375" SQ	3 11/16" /3 11/16"/ 3 1/2" SQ	3.5"	IC

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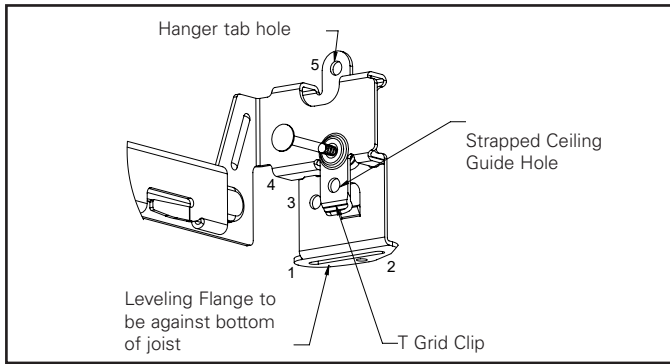


Figure 2.

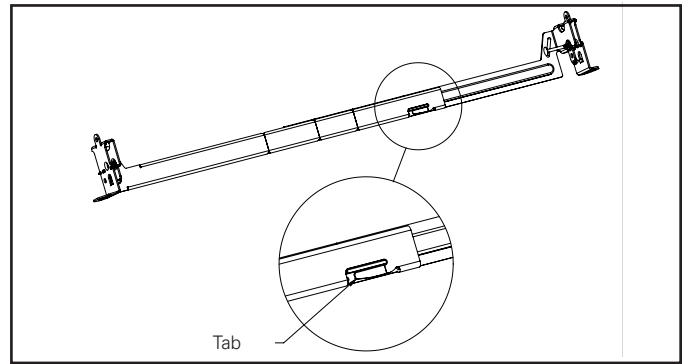


Figure 3.

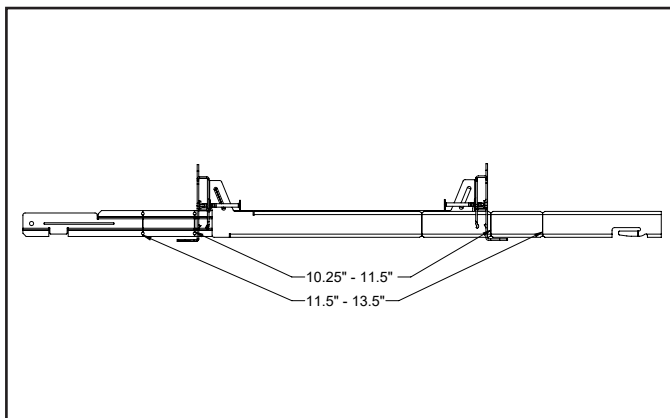


Figure 4.

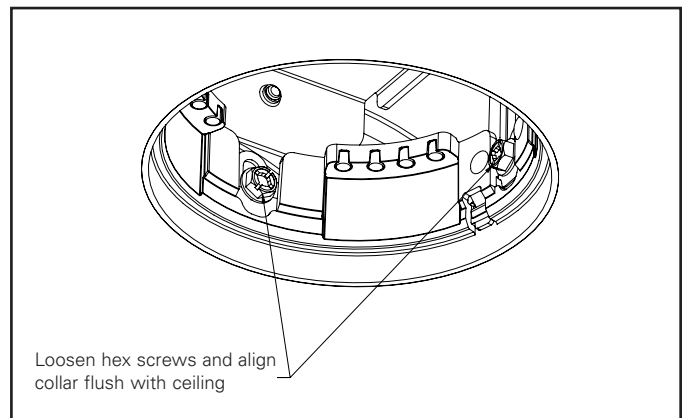


Figure 5.

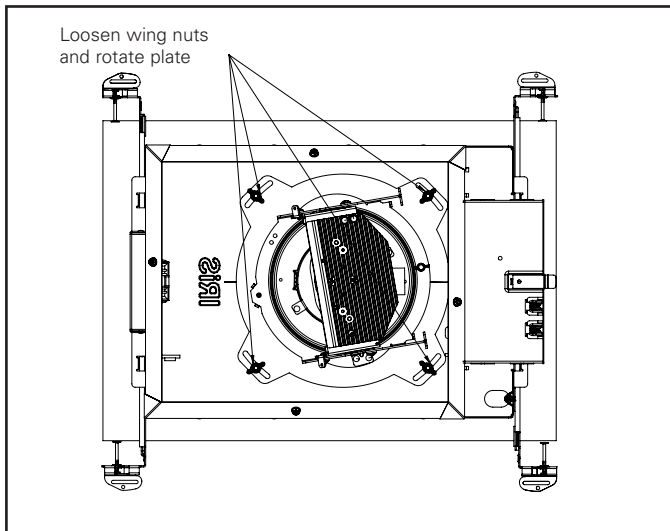


Figure 6.

Installation Instructions – P3AS/ P3SQAS/ P3ASCP/P3SQASCP IRiS Shallow Recessed Adjustable LED

Installation In Suspended Ceiling

1. Locate center of proposed opening on the ceiling tile and see the chart above for appropriate cut-outs (square vs. round, standard vs. rimless).
2. Place ceiling tile in T-bar grid.
3. Snap fixture on T-bars. Secure with screw (not included) as shown (Figure 7).
4. Center fixture over opening. To secure fixture position in ceiling, tighten screws to lock fixture in place on bars. (Figure 1.)
5. Follow Steps 3 through 8 in "Installation in New Construction".

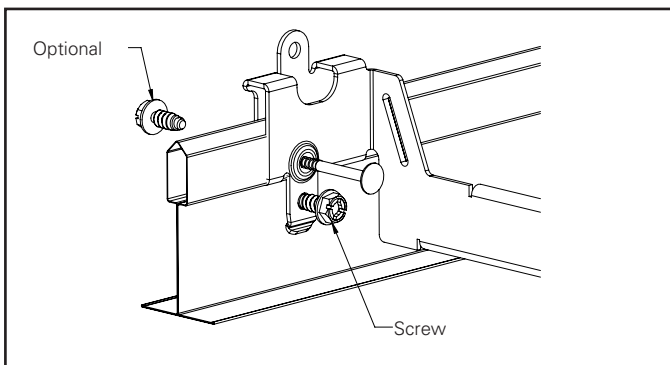


Figure 7.

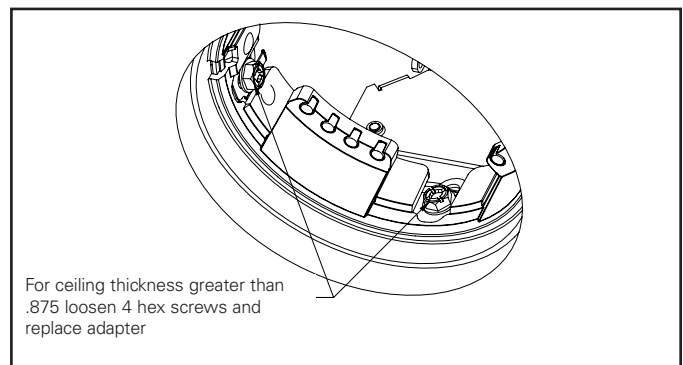


Figure 8.

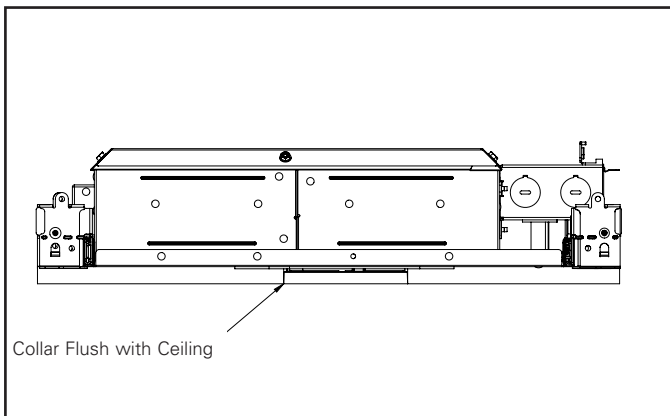


Figure 9.

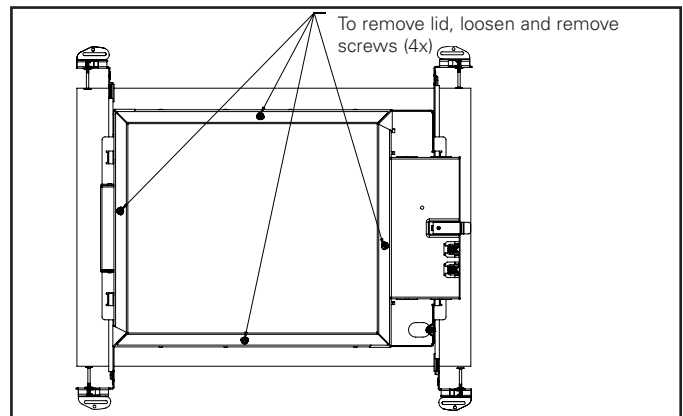


Figure 10.

Installation Instructions – P3AS/ P3SQAS/ P3ASCP/P3SQASCP IRiS Shallow Recessed Adjustable LED

Installation In New Construction Strapped Ceiling

Option 1: Nail installation on the joist

1. Use the guide hole below nail (Figure 2) to align bar hanger bracket below joist to adjust for the thickness of the strapping.
2. Align the guide hole below the joist (Figure 2) to where you just see through the guide hole and hammer nails into joists.
3. Additional nails or screws may be used in the hanger tab hole.
4. Follow Steps 3 through 8 in "Installation in New Construction".

Option 2: Installation on strapping

1. Use leveling flange (Figure 2) to position housing on bottom of strapping (strapping must be 12" [30.5 cm] to 24" [61 cm] apart).
2. Use slot or hole in leveling flange (Figure 2) to secure the bar hanger bracket to the strapping with nails or screw (not included).
3. Follow Steps 3 through 8 in "Installation in New Construction".

Installation for Air-Tite Construction

IRiS Air-Tite™ housings with ASTM E283 certification pre-installed gasket sealing the aperture, frame and ceiling: no need for additional caulk. When properly installed, Air-Tite™ housings provide compliance with restricted airflow regulations.

ELECTRICAL CONNECTION

Below Ceiling Access Fixtures

1. Remove outer JBOX door. Connect supply leads and appropriate dimming/ controls leads as specified in the wiring diagrams and in accordance with your local electrical code(s) or N.E.C. (see Figure 11).
2. Connect dimming wires and keep a minimum of 10in [250mm] of insulated unshielded wire inside the JBOX.
3. Connect supply wires and keep a minimum of 10in [250mm] of insulated unshielded wire inside JBOX.
4. Replace outer JBOX door.
5. See Figure 11 & 12 for visual assistance.

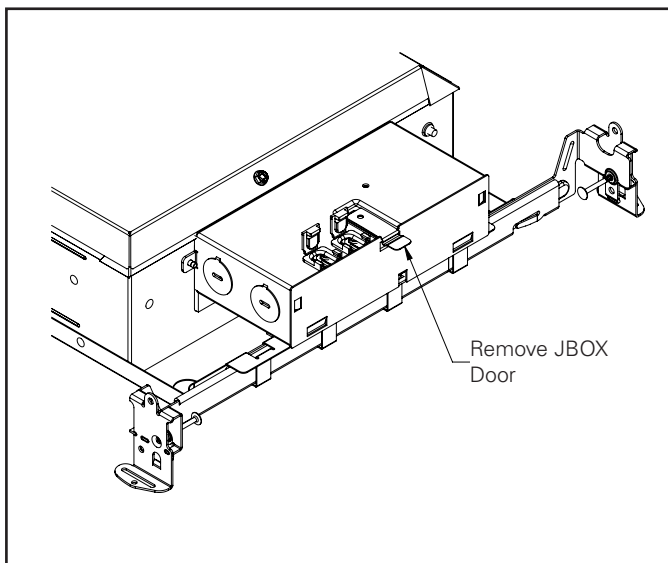


Figure 11.

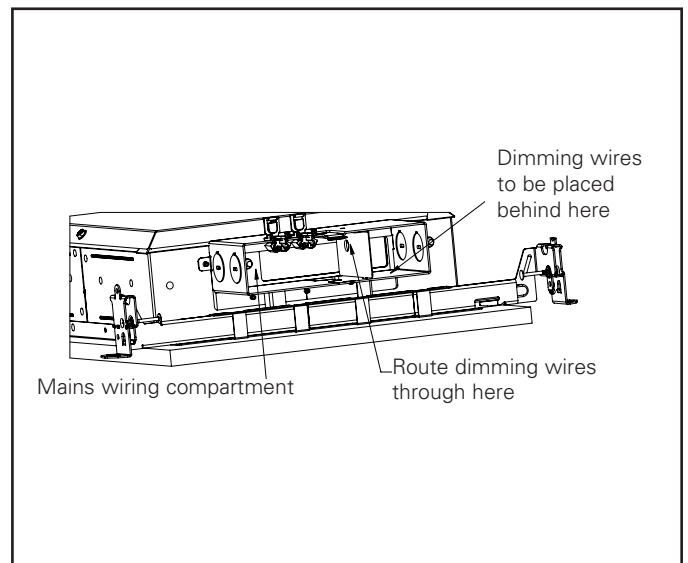


Figure 12.

ELECTRICAL CONNECTION

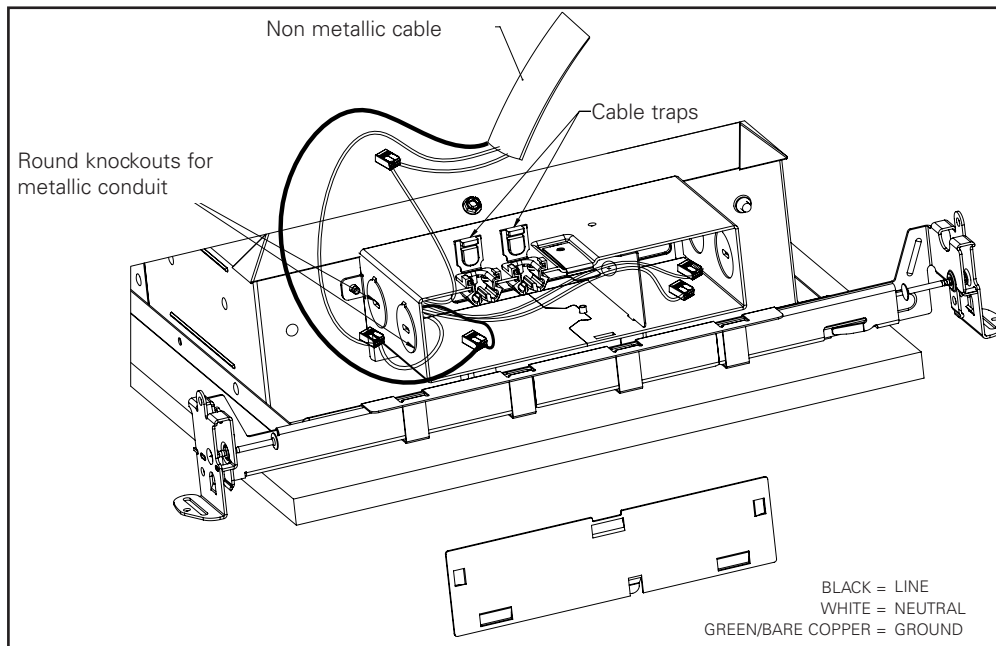
⚠ CAUTION

Make certain no bare wires are exposed outside the lever nut connectors.

For housings with push-nut connectors:

- Strip insulation 3/8" (0.95 cm).
- Use 12-16 AWG stranded (stranded pattern 19 or less) or use 12-18 AWG solid copper wire.

1. Provide electrical service according to the "National Electrical Code" or your local electrical code from a suitable junction box to the wiring box (located on the fixture). Supply wire insulation must be rated for at least 90°C. The junction box is rated for a maximum of 8 No. 12AWG Branch Circuit conductors that must also be suitable for at least 90°C.
2. Remove the wiring box cover.
Note: The wiring box will accept metal conduit or non-metallic cable, but metal conduit must be used if your electrical code requires it.
Metal conduit: Remove appropriate round knockout(s) and connect conduit to wiring box with proper connector(s) (not included).
Non-metallic Cable: complete connection as outlined in step 3 and push cable into wire traps (Figure 13).
3. Keep a minimum of 10" of insulated unshielded wire inside junction box and connect supply wires to wires in fixture wiring box with proper size lever nuts (not included) or push wires into "push-in" connectors (included on select models). Be sure to cover all bare current-carrying conductors. Connect white to neutral, black wire to supply line, and bare copper wire (in junction box) to ground from electrical service. The additional wire length in junction box is needed to allow driver to be replaced through ceiling aperture.
Note: The ground wire at the service junction box may need to be secured to a ground screw.
Note: If not using 0-10V dimming, ensure separate lever nuts are secured onto purple and pink* wires to prevent touching housing.
4. Place wires and connections back in wiring box and replace cover.
* Constructions built before Jan 2022 may have gray wire for 0-10 dimming control present. In these cases, the installer will label the gray building wire as a 0-10 dimming wire and connect to our product's pink 0-10V dimming control wire. Reference NFPA70 (2020 NEC), section 410.69.



Wiring diagram



Figure 13.

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OPTICS

1. The optic can be removed and replaced to provide a different beam angle. To remove optic, twist counter-clockwise. To install, insert optic and twist clockwise (Figure 14 A).
2. Also available, is a single/double media holder. To install, place the media onto the media holder. Engage snaps at bottom of snap staircase. Twist clockwise until tight (Figure 14 B).

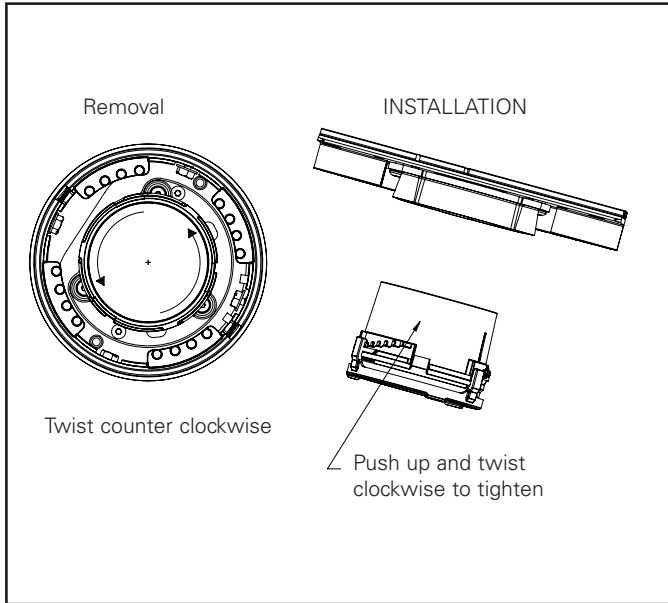


Figure 14A.

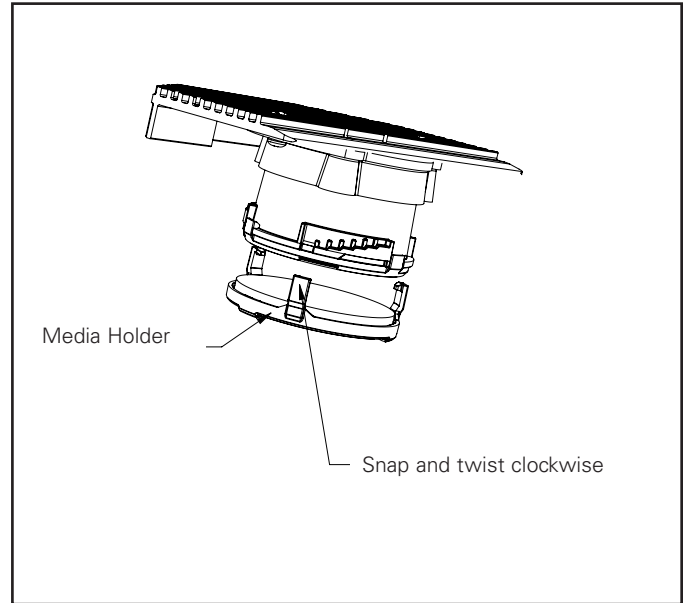


Figure 14B.

AIMING

1. Loosen wing screw on left of aiming bracket (Figure 15 A).
2. Turn the mechanism to the desired position using the aiming bracket and screwdriver (Figure 15B). Tighten wing screw.

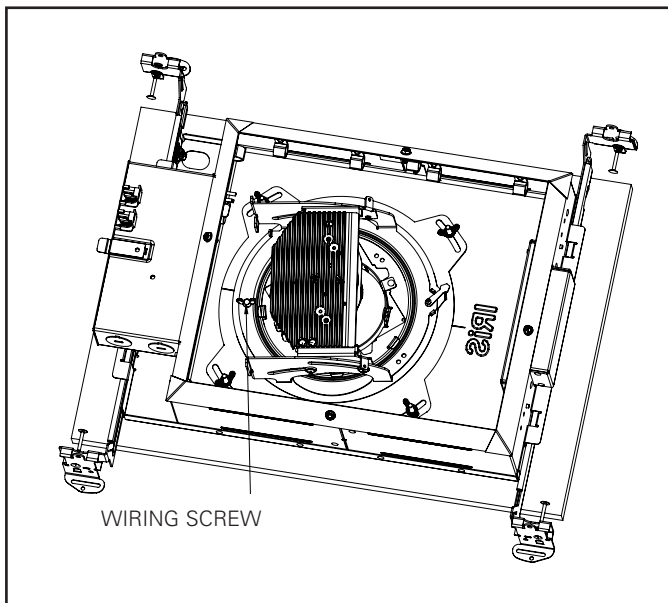


Figure 15A.

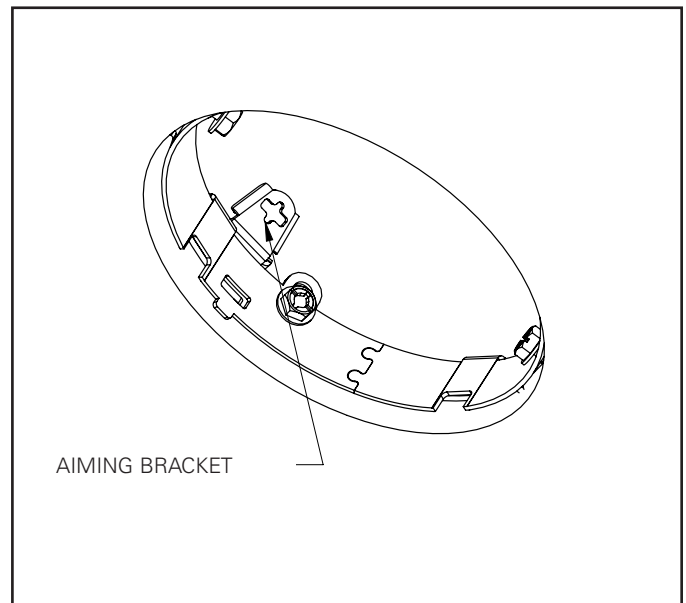


Figure 15B.

TILTING

This fixture allows for up to 35-degree tilt, please note due to natural physical limitations of varying ceiling thicknesses, trim aperture, and presence of additional lens media, full light output from the fixture may be limited.

1. Tilt the mechanism by turning the tilting screw in the clockwise direction (Figure 16). Reference the angle dial on the mechanism assembly for determining tilt angle.
2. No additional steps are required for locking the tilt position the mechanism automatically locks into the desired position.
3. Replace the optic.
For wall wash trims, the optimal condition is 15-degrees tilt angle and 70-degree optic, and for double wall wash title angle should be 0-degree (Figure 21).

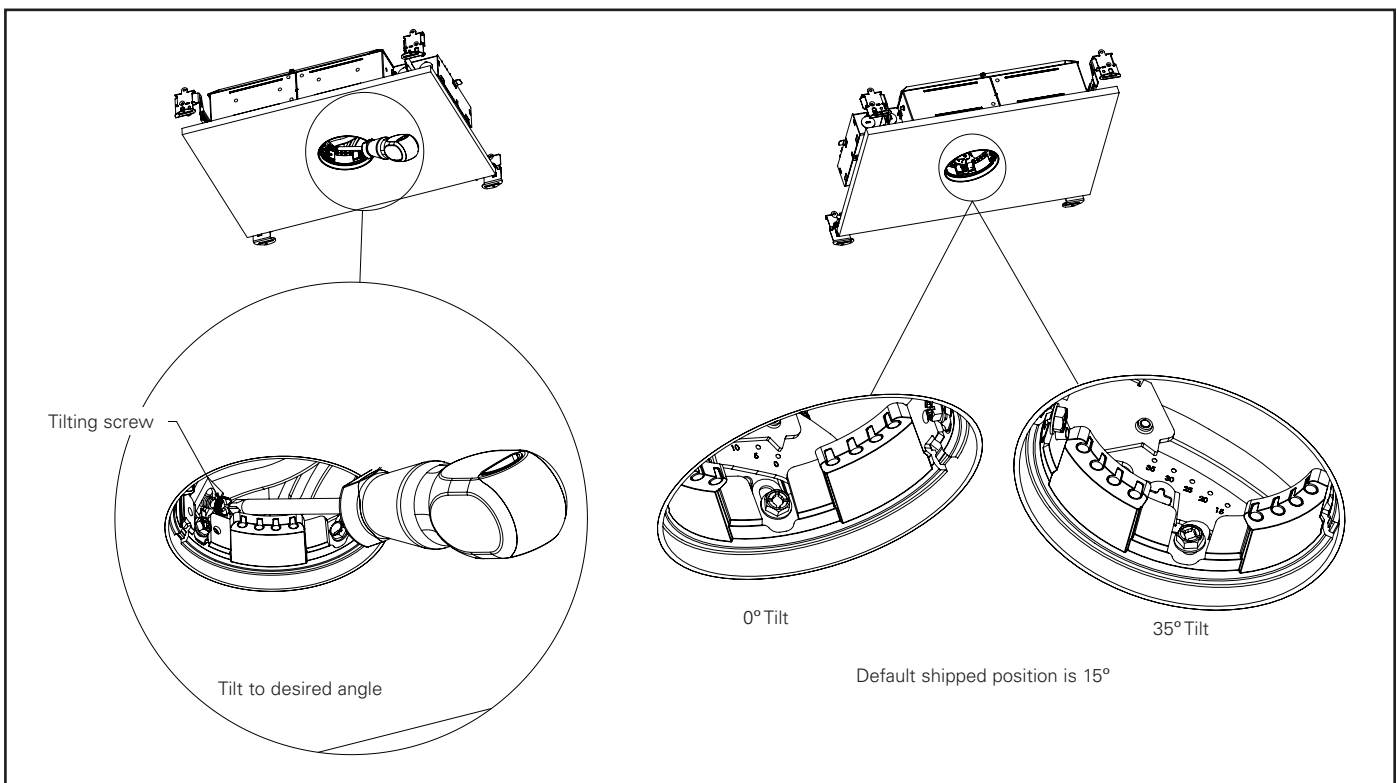


Figure 16.

Installation Instructions – P3AS/ P3SQAS/ P3ASCP/P3SQASCP IRiS Shallow Recessed Adjustable LED

LED REPLACEMENT

1. Remove the trim from the housing (pull gently) and unhook tether clip.
2. Make sure that the mechanism 0-degrees downlight position (see figure 16).
3. Remove the optic (see figure 14).
4. Locate the 5 Torx head screws on heat sink (Figure 18).
5. Turn the screws with a Torx screwdriver (T10) counterclockwise and take them out
6. Carefully pull the light engine out of the ceiling recognizing the low voltage LED wires will follow the light engine through the aperture.
7. Discard old light engine and rewire new light engine, refer the wiring diagram.
8. Replace the new light engine back into the housing following steps 6 through step 3 in reverse. Make sure wires will not interfere with the mechanism tilting and rotation.
9. Check the wire connection by turning on and off the fixture.

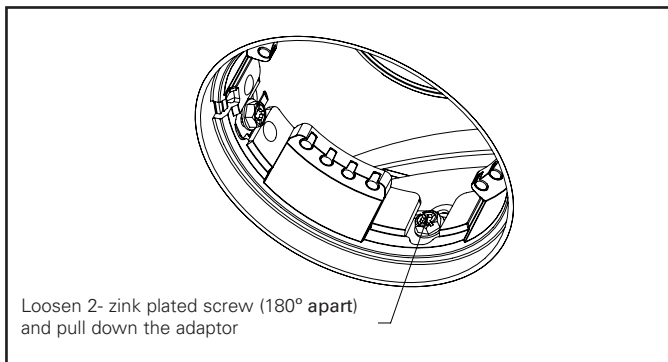


Figure 17.

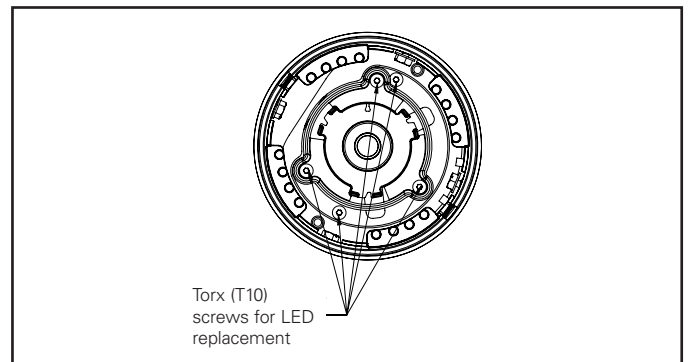


Figure 18.

TRIM INSTALLATION

1. To clean, gently wipe with a soft, clean, dry lint-free cloth to remove dust.
2. In the event fingerprints are placed on the reflective area, use a mild detergent solution on a soft, clean cloth to remove them. Wipe with clean water and dry with a soft, clean, dry lint-free cloth.
3. The above cleaning method can be used anytime during the life of the trim.
4. Remove the overspray protector.
5. Attach trim tether clip to aiming bracket (Figure 19).
6. Align mounting plates with magnets and place trim against ceiling (Figure 20).
7. If using a wall wash trim or adjustable trim, the angle of the trim lens should align with the direction and angle of the mechanism head (Figure 21).
8. In case of tall trim for downlight align trim such that trim bracket does not interfere with adapter (Refer Figure 22).

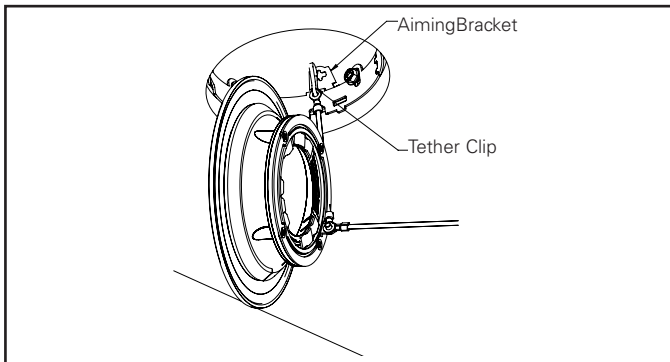


Figure 19.

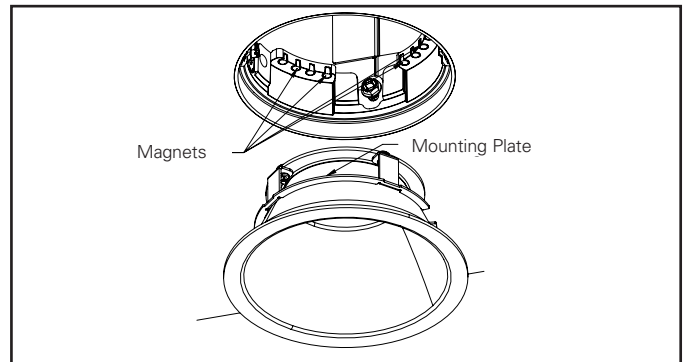


Figure 20.

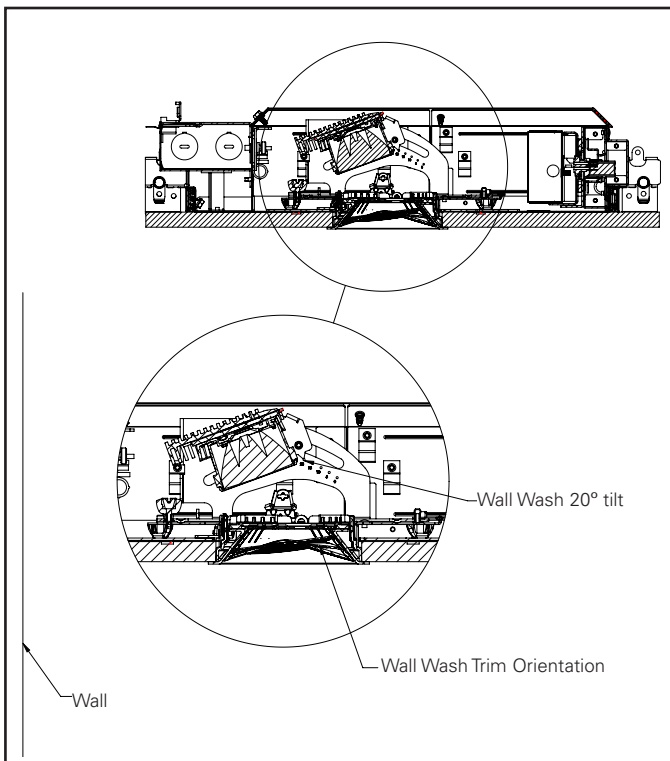


Figure 21.

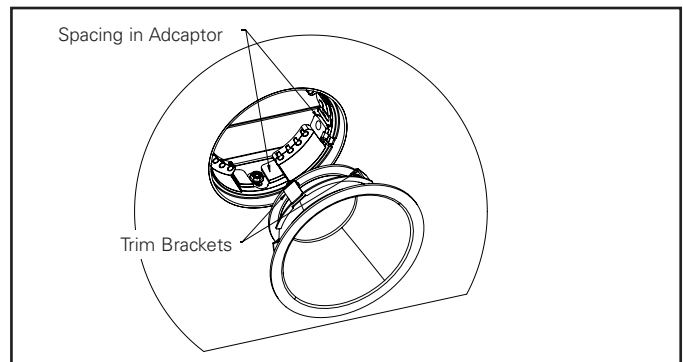


Figure 22.

DRIVER REPLACEMENT

WARNING



Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards- Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.



Risk of Fire and Electric Shock- Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.

PLUG-IN DRIVER REPLACEMENT/INSTALLATION

The driver maybe replaced either from below or above the ceiling (if ceiling access is present). To replace this unit’s driver from below the ceiling:

1. Remove the trim from the housing (pull gently) and unhook tether clip.
2. Make Sure that the adjustment mechanism is 0 degrees (downlight position) (see figure 16).
3. Remove the optic (see figure 14A).
4. Remove the adaptor from ceiling by loosening the 2 zinc plate hex screws (copper colour) that attach the collar to the housing (see Fig. 17). Only loosen the screw; do not remove it from the assembly.
5. Tilt the mechanism 35-degrees (see Figure 16).
6. Aim the mechanism 180-degrees from the driver by using a Phillips screwdriver (see Figure 15).
7. Locate the two zip ties securing the plug-in driver (see Fig. 25) and cut them using a wire cutter
8. Hold and pull the plug-in driver box assembly until it disconnects (Figure. 23).
9. If replacing from below the ceiling align the plug-in driver box assembly with the housing opening and take it out through the hole in the ceiling.
10. Bring in the new plug-in driver box assembly while ensuring the INSTALL THIS END UP arrow points upwards (Figure. 24).
11. Align the plug-in driver box assembly with alignment flanges & the connector on the junction box and gently push it to the end till the connector engages (Figure 23).
12. Re-position the mechanism as desired. Replace optic onto light engine and insert trim. Clean trim if necessary, before replacing (to remove dust or fingerprints).

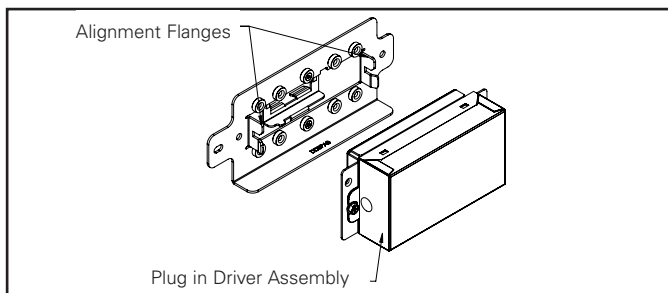


Figure 23.

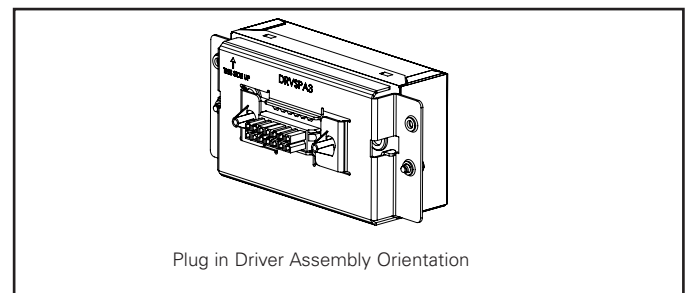


Figure 24.

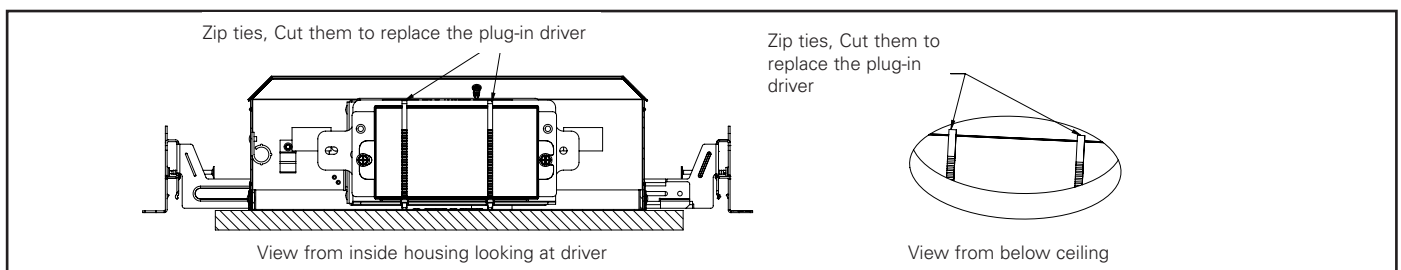


Figure 25.

Installation Instructions – P3AS/ P3SQAS/ P3ASCP/P3SQASCP IRiS Shallow Recessed Adjustable LED

DIMMING

The IRiS P3*RT3 *DTR Series can be dimmed with many standard 120V incandescent dimmers, electronic low voltage dimmers and 0-10V DC dimming controls. The Portfolio P3*RT3 *DE010 and P3*RT3 *D010 Series can be dimmed with 0-10V DC dimming controls but are NOT to be dimmed using line voltage dimmers. The Portfolio P3*RT3* *D5LT Series can be dimmed with Fifth Light and DALI compatible controls. The Portfolio P3*RT3 *DMX Series can be dimmed with DMX compatible controls.

5-YEAR LIMITED WARRANTY

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Cooper Lighting Solutions warrants to customers that, for a period of five years from the date of purchase, Cooper Lighting Solutions products will be free from defects in materials and workmanship. The obligation of Cooper Lighting Solutions under this warranty is expressly limited to the provision of replacement products. This warranty is extended only to the original purchaser of the product. A purchaser's receipt or other proof of date of original purchase acceptable to Cooper Lighting Solutions. This is required before warranty performance shall be rendered.

This warranty does not apply to Cooper Lighting Solutions products that have been altered or repaired or that have been subjected to neglect, abuse, misuse or accident (including shipping damages). This warranty does not apply to products not manufactured by Cooper Lighting Solutions which have been supplied, installed, and/or used in conjunction with Cooper Lighting Solutions products. Damage to the product caused by replacement bulbs or corrosion or discoloration of brass components are not covered by this warranty.

LIMITATION OF LIABILITY:

IN NO EVENT SHALL COOPER LIGHTING SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, STRICT LIABILITY, OR IN TORT INCLUDING NEGLIGENCE), NOR FOR LOST PROFITS; NOR SHALL THE LIABILITY OF COOPER LIGHTING SOLUTIONS FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THESE TERMS OR THE MANUFACTURE, SALE, DELIVERY, USE, MAINTENANCE, REPAIR OR MODIFICATION OF COOPER LIGHTING SOLUTIONS PRODUCTS, OR SUPPLY OF ANY REPLACEMENT PARTS THEREFORE, EXCEED THE PURCHASE PRICE OF Cooper Lighting Solutions PRODUCTS GIVING RISE TO A CLAIM. NO LABOR CHARGES WILL BE ACCEPTED TO REMOVE OR INSTALL FIXTURES.

All returned products must be accompanied by a Return Goods Authorization Number issued by the Company and must be returned freight prepaid. Any product received without a Return Goods Authorization Number from the Company will be refused. Cooper Lighting Solutions is not responsible for merchandise damaged in transit. Repaired or replaced products shall be subject to the terms of this warranty and are inspected when packed. Evident or concealed damage that is made in transit should be reported at once to the carrier making the delivery and a claim filed with them. Reproductions of this document without prior written approval of Cooper Lighting Solutions are strictly prohibited.

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off an on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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