

ANELLO SURFACE MOUNT



INSTALLATION PROCEDURE

DO NOT DISCARD

PLEASE READ CAREFULLY BEFORE BEGINNING INSTALLATION.

Fixtures must be installed by licensed electricians in accordance with all local and national codes.

To prevent electrical shock, disconnect electrical supply before installing or servicing.

Before beginning installation, locate the following components. Gather required tools.

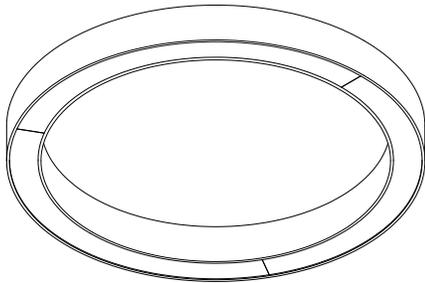


Fig. 1. Assembled fixture.

Locate clear properly lit area for fixture assembly. Area has to be large enough for complete fixture assembly. Some fixture parts, as lenses, are fragile. Pad area which might be in contact with fragile components.

Shipping boxes are clearly labeled with component context and number. Open boxes to recognize fixture components. Unpack and remove fixture components from boxes only before actual assembly to avoid damage.

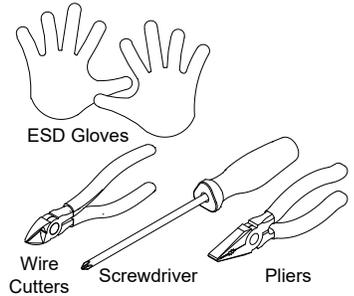


Fig. 2. Tools required (not supplied).

Single segment fixture installation

POWER OFF

NOTE: ALL FIXTURE COMPONENTS BOX TO BE INSTALLED AND WIRED ACCORDING TO NEC, FEDERAL AND LOCAL REGULATIONS BY CERTIFIED (QUALIFIED) ELECTRICIAN.

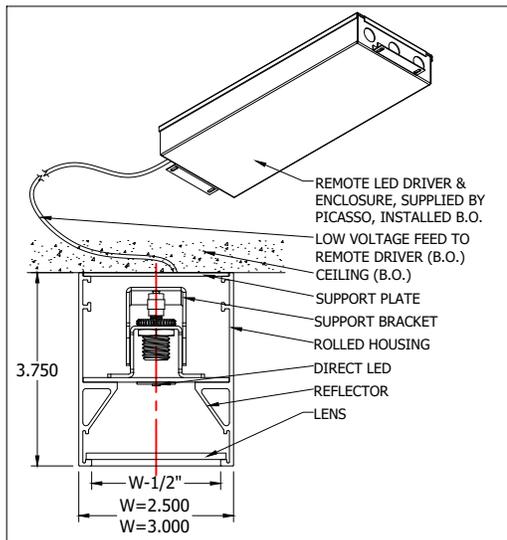


Fig. 3 Installed section details.

1. Surface mounted Anello fixtures come with width (W) 2-1/2" or 3". Standard sizes are 3', 4', 5', and 6' nominal diameter. These fixtures come as fully assembled ring. Custom sizes larger 6' come in the segments and have to be assembled before installation. Fixture with (3) or more segments might be assembled within the ceiling proximity if condition permitted. All surface mounted fixtures (Fig. 3) to have remote mounted enclosure with LED driver(s) unless otherwise requested. See submittal drawing for details.

2. Fixture mounted surface should have structural integrity to support fixture weight. Fixture support plate (see Fig. 4) has 7/8" hole for low voltage power cord (by others). 5/16" plate mounting holes to except support hardware (by others).

3. Surface mounted fixture has special support mechanism that allows to raise and lower fixture with aircraft support cables. Fixture has at least (3) support brackets. Each bracket has aircraft cable loop within housing reflector. Lay-in lenses need to be shifted one segment on the top of another to reach loops (see Fig. 2).

4. Fixture need to be temporarily safely supported within mounted plate proximity. Distance to allow support cables to be attached to mounted plate. Rotate fixture the way aircraft cable tips are next to support plate cable attachments. Make sure power feed is next to fixture pigtail. Securely attach all cables to the support plate. Carefully remove temporary fixture support(s). Make sure fixture fully supported by aircraft cables.

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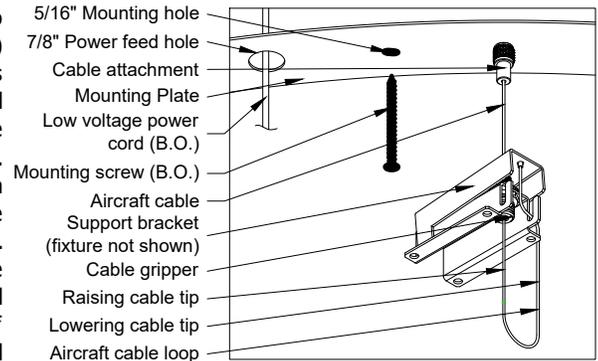


Fig. 4. Support mechanism and feed location.

Keep these **INSTALLATION INSTRUCTIONS** in a secure and readily accessible place for any future maintenance or for reference.

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Single segment fixture installation (continuation)

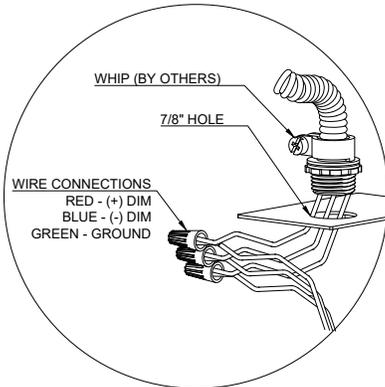


Fig. 5 Wiring details.

5. Splice fixture feed to the pigtail (Fig. 5). Fixture might have more than one power feed depending on fixture size, circuiting, and light output (see submittal drawing for details). Repeat wire splicing if needed.

6. Locate aircraft raising tips on the cable loops. Raising tip is going through cable gripper mounted inside each support bracket (Fig. 4). Hold raising cable tip down and slightly lift this side of the housing at the same time. Gripper will hold housing in raised position. Repeat the same procedure for all support brackets moving around the housing till housing is seating flat against ceiling with minimum gaps, and support plate located inside the housing. Housing can be lowered if needed by pulling down lowering cable tip (Fig. 4). Make sure to support housing at the bracket while lowering. Housing

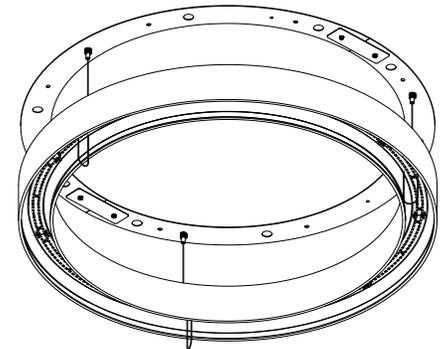


Fig. 6 Housing leveling (lenses not shown).

will stay in desired position once lowering cable tip released and housing clear.

7. Tuck loosed aircraft cable loops inside the housing. Make sure to place exposed cable loop in between LED chips. Cable must do not touch LED chip(s). Repeat this procedure for all cable loops.

8. Replace lenses evenly inside the housing. Lenses must seat flat in the housing.

9. See 150-000037 Remote box Installation instruction for remote power enclosure installation and wiring. See submittal drawing(s) for maximum remote box distance from installed fixture(s).

Multiple segments fixture installation (nominal outside diameter 6' through 12') **POWER OFF**

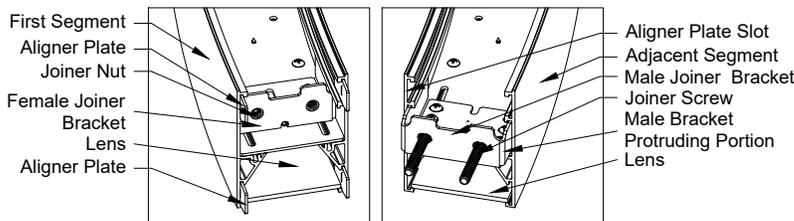


Fig. 7. Joiner Details

(fixtures with outside diameter 6' through 12').

Fixtures with **nominal outside diameter 6' through 12'** shipped in segments and required assembly before installation. Fixtures of this size must be assembled on the floor or any flat surface of suitable size and substantial support. Surface needs to be properly padded to avoid fixture paint damage.

1. Fixture segments shipped with preinstalled joiner hardware (see Fig. 7). Lay down all segment (lens down) on the floor to roughly form the circle. Each segment has female joiner with (2) nuts (shown on Fig. 7 at left) and male joiner with (2) bolts (shown at right). Make sure segments laid down on proper succession.

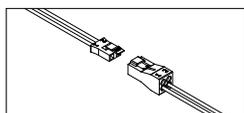


Fig. 8. LED Feed Connectors.

2. Aim the first segment's aligner plates into aligner plate slots on adjacent segment. Make sure that protruding portion of male joiner bracket close to female joiner bracket of the first segment. Engage both joiner bolts with nuts in female bracket. Align segments as needed. Repeat this procedure for all adjacent segments of the fixture.

3. Start tightening joiner bolts alternatively, moving around fixture till all joiners completely engaged and housing segments form the circle without visible gaps. Adjust segment's positions if needed.

4. Find LED feed connectors on both adjoining segments and connect them (Fig. 8). Some high output fixtures have a separate feed to remotely installed driver(s) for each segment, and do not required step 4.

5. Once fixture completely assembled, it need to be mounted to the support plate(s) as shown on Fig. 6. Follow all installation steps for single segment fixture above to complete installation. See 150-000037 (last page) for remote box installation instruction.

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Multiple segments fixture installation (nominal outside diameter greater 12') **POWER OFF**

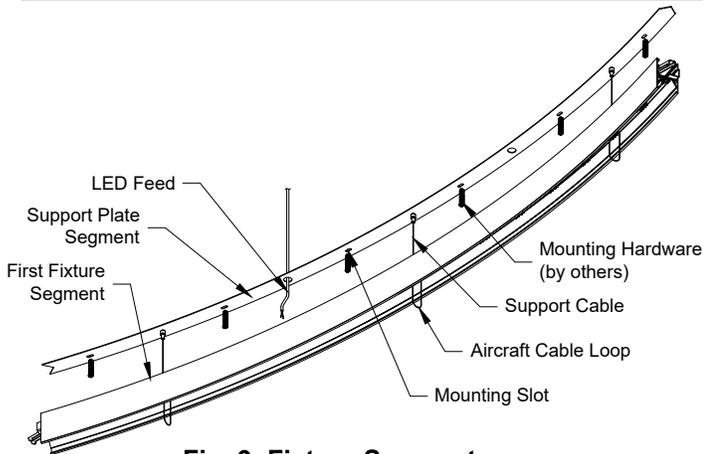


Fig. 9. Fixture Segment.
(fixtures with outside diameter greater 12')

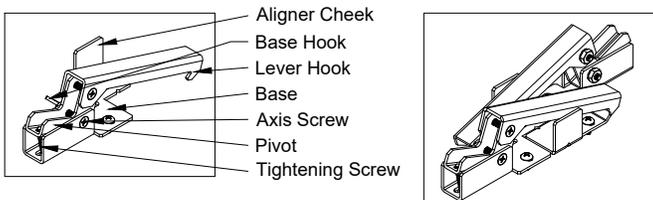


Fig. 10. Joiner Bracket
(fixtures with $\varnothing > 12'$)

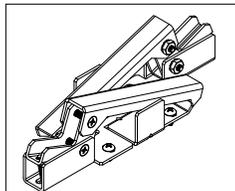


Fig. 11. Joined Brackets
(housings not shown)

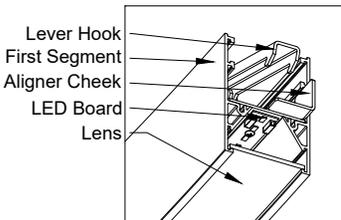


Fig. 12. Joiner Details (fixtures with $\varnothing > 12'$)

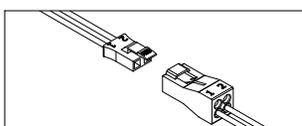
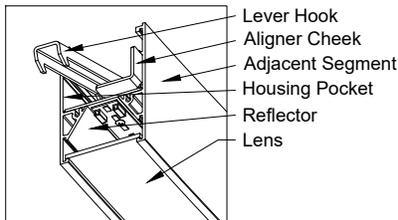


Fig. 13. LED Feed Connectors.

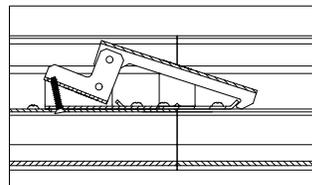


Fig. 14. Joiner engagement.

Fixtures with **nominal outside diameter greater 12'** shipped in segments and required assembly before installation. Fixtures of large this size can not be must be assembled on the floor in most cases and need to be installed segment by segment to the surface.

1. Support plate for large fixtures come in segments. Install the first support plate segment to proper location (mounting hardware is not supplied). Follow directions as for a single segment fixture installation. Make sure that mounting surface will properly support weight of whole fixture. Arrange all mounting plate segments into even circle.
2. Put LED feed(s) from remote enclosure(s) through support plate feed hole(s). Bring the first fixture segment to the first support plate segment. Lift and slide one lens on top of another for cable loop access. Temporarily support segment till support cables securely attached to support plate (Fig. 9). Level segment by pulling aircraft cable tips as described on the page 1 (see Fig. 4 for details). Splice LED feed to segment's pigtail.
3. Each segment end has joiner bracket (Fig. 10). Brackets installed the way they located side by side in opposite directions when two adjacent segments joined together (see Fig. 11). Each bracket has base hook and lever hook (Fig. 10). Lever hook of one segment's bracket has to engage with base hook of another segment's bracket (Fig. 11).
4. Install the second fixture segment as described in step 2 above. Both segments come close. Level the second segment to the first one. Join LED connectors if fixture has run through harness (Fig. 13). Skip this step if each segment has separate LED feed. Move segments together the way that aligner cheek of one bracket is aimed to housing pocket of another segment (Fig. 12).
5. Move segments together till clicks (both hooks engaged). See Fig 14 for details. Adjust segment's level if needed. Find a hole in housing reflector (Fig. 12) to reach joiner bracket tightening screw (Fig. 10) with long Phillips screwdriver. Tighten both bracket's screws alternately (Fig. 14). Screw will turn the pivot and pull lever hook inside the fixture. Tighten both screws alternately from both sides to reach complete engagement and alignment of both segment. Make sure both segments aligned completely without any visible gap in between housings.
6. Repeat steps 4 and 5 till whole ring assembled. Adjust if needed. Start lifting segments by pulling raising cable tips (see Fig. 4). Work subsequently in one direction until whole assembled fixture is seating flat against mounting surface with minimum gap between housing and mounting surface.
7. Tuck loosed aircraft cable loops inside the housing. Make sure to place exposed cable loop in between LED chips. Cable must do not touch LED chip(s). Repeat this procedure for all cable loops.
8. Replace lenses evenly inside the housing. Lenses must seat flat in the housing without overlapping and visible gaps.

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LED DRIVER(S) REMOTE BOX



INSTALLATION PROCEDURE

DO NOT DISCARD

PLEASE READ CAREFULLY BEFORE BEGINNING INSTALLATION.

Fixtures must be installed by licensed electricians in accordance with all local and national codes. See last page for UV lamp specific warnings

To prevent electrical shock, disconnect electrical supply before installing or servicing.

Before Beginning Installation, Locate The Following Components. Gather Required Tools.

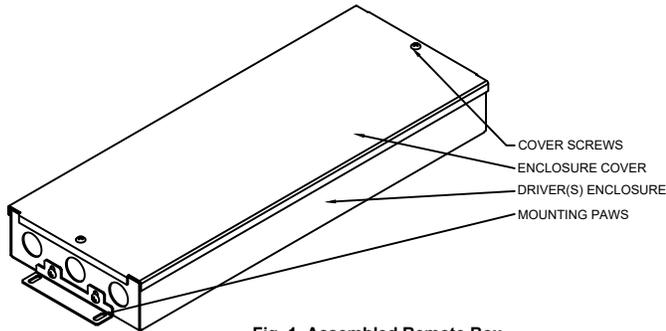
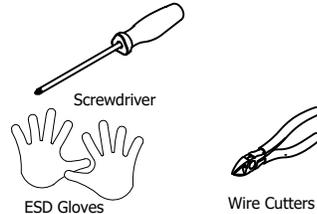


Fig. 1. Assembled Remote Box.

**Tools Required
(Not Provided)**



Install LED Driver Enclosure; Splice Power Feed:

POWER OFF

REMOTE DRIVER BOX MUST BE INSTALLED IN ACCESSIBLE LOCATION.

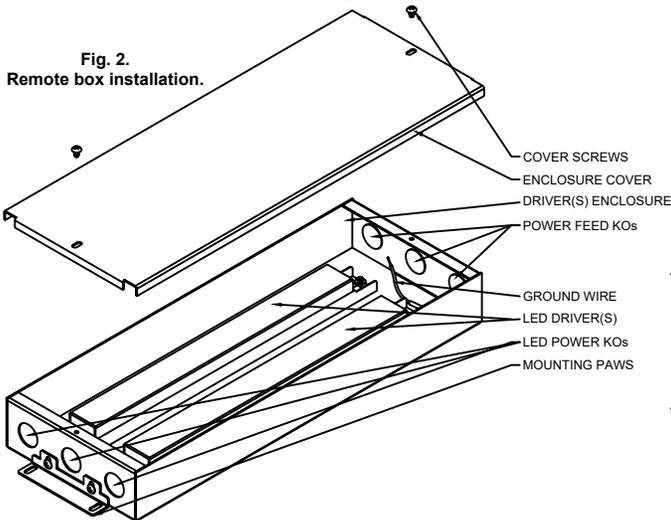


Fig. 2. Remote box installation.

Enclosure Installation

1. Locate appropriate remote box location. Follow NEC, Federal and Local regulations. Remote distance from enclosure to the fixture do not exceed the maximum distance based on the driver(s) used and harness wire gauge.
2. Install enclosure on the paws and secure housing to the structural surface using hardware by others. Paw slots usable for #8 screws.
3. Remove enclosure cover screws. Remove enclosure cover.

Power Feed Splice

3. Locate power feed side. Ground wire located on power feed side.
4. Remove one of the 7/8" KOs from power feed side. Install armored power feed (B.O.) into KO. Splice ground, hot, and neutral wires. Splice LED dimming control wires if applicable.

LED Splice

6. Remove one of the 7/8" KOs from LED feed side. Install armored power feed (B.O.) into KO. Splice LED power wire. Follow polarity & wire color coding.
7. Make sure driver enclosure is properly grounded.
8. Reinstall cover and secure with screws.



Fig. 3. Non-dimming



Fig. 4. 0-10V Dimming.

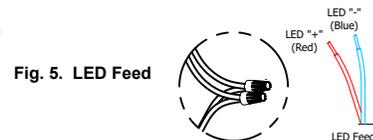


Fig. 5. LED Feed

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