# Installation Instructions – Shaper Sense Drum Pendant

- Shaper Sense Duo Drum
- Shaper Sense Trio Drum
- Shaper Sense Index Dimensional Drum
- Shaper Sense Ribsy Drum

Keep plastic on light guide and acoustic panel, until assembly is complete.

Keep foam protective cover from top of Light Guide Panel from packaging to place on top of Light Guide Panel while assembling. Light Guide Panel needs to be protected or may incur scratches. Recommended use of junction box type that can support 50lb load.
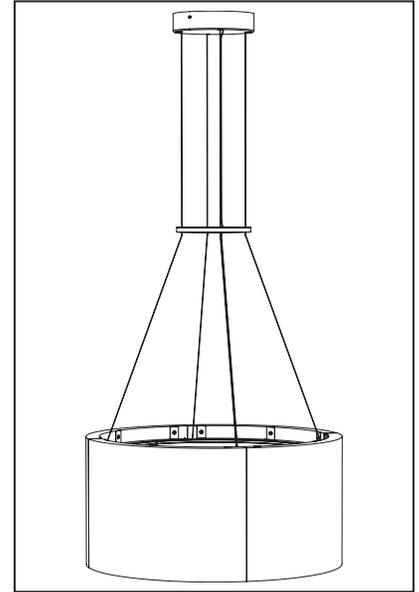
⚠WARNING

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.

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 fixture. Retain for future reference.

NOTICE: Green ground screw provided in proper location. Do not relocate.

NOTICE: Fixture may become damaged and/or unstable if not installed properly.

Note: Specifications and dimensions subject to change without notice.

ATTENTION Receiving Department: Note actual fixture description of any shortage or noticeable damage on delivery receipt. File claim for common carrier (LTL) directly with carrier. Claims for concealed damage must be filed within 15 days of delivery. All damaged material, complete with original packing must be retained.

COOPER
Lighting Solutions

INSTALLATION

SHAPER SENSE DRUM

EXPLODED VIEW OF COMPONENTS

Driver Enclosure

Decorative Cover

Collector

Light Guide Panel

Drum Acoustic Panels
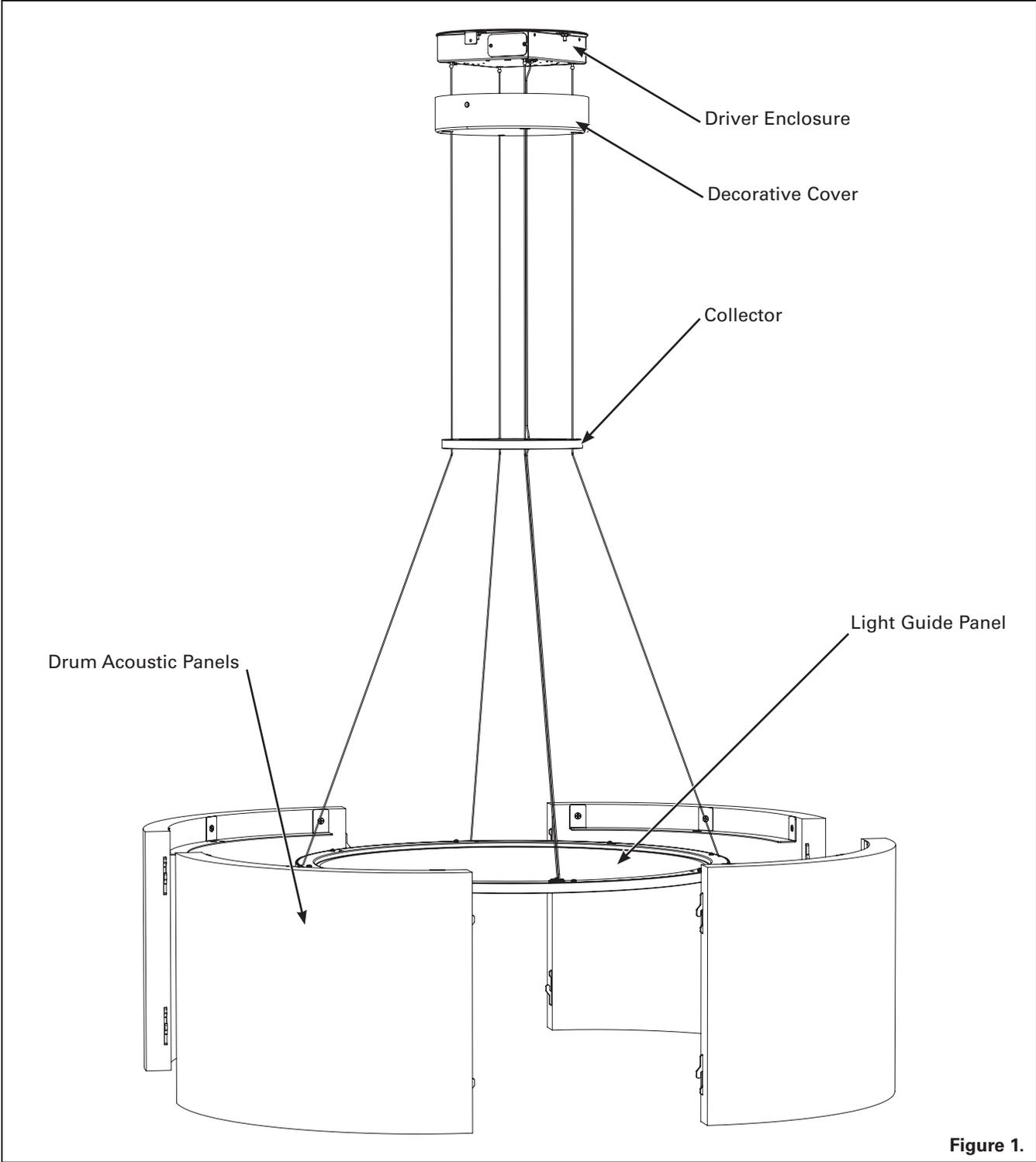
Figure 1.

DRIVER ENCLOSURE COMPONENTS AND DECORATIVE COVER COMPONENTS

1 x Cover Ring, SHSE

4" JB
4" OCT JB
4 11/16" JB
4 11/16" JB
4" OCT JB
4" JB

1 x Drum Collector

5 x Wire Nut, Yellow

2 x Wire Nut, Gray

2 x Strain Relief Bushing, White, 2P-4

1 x Screw, M4x10

11 x 4" Cable Tie

1 x Hex L -Key-

Wiring Table:

	Black - Hot
	White - Neutral
	Green - Ground
	Purple - 0-10V (+)
	Pink - 0-10V (-)

Figure 2.

INSTALLATION

Light Guide

Remove the four #6-32 Pan Head Screws from the Light
Guide Panel Keep safe, for install in Step 20, Figure 17
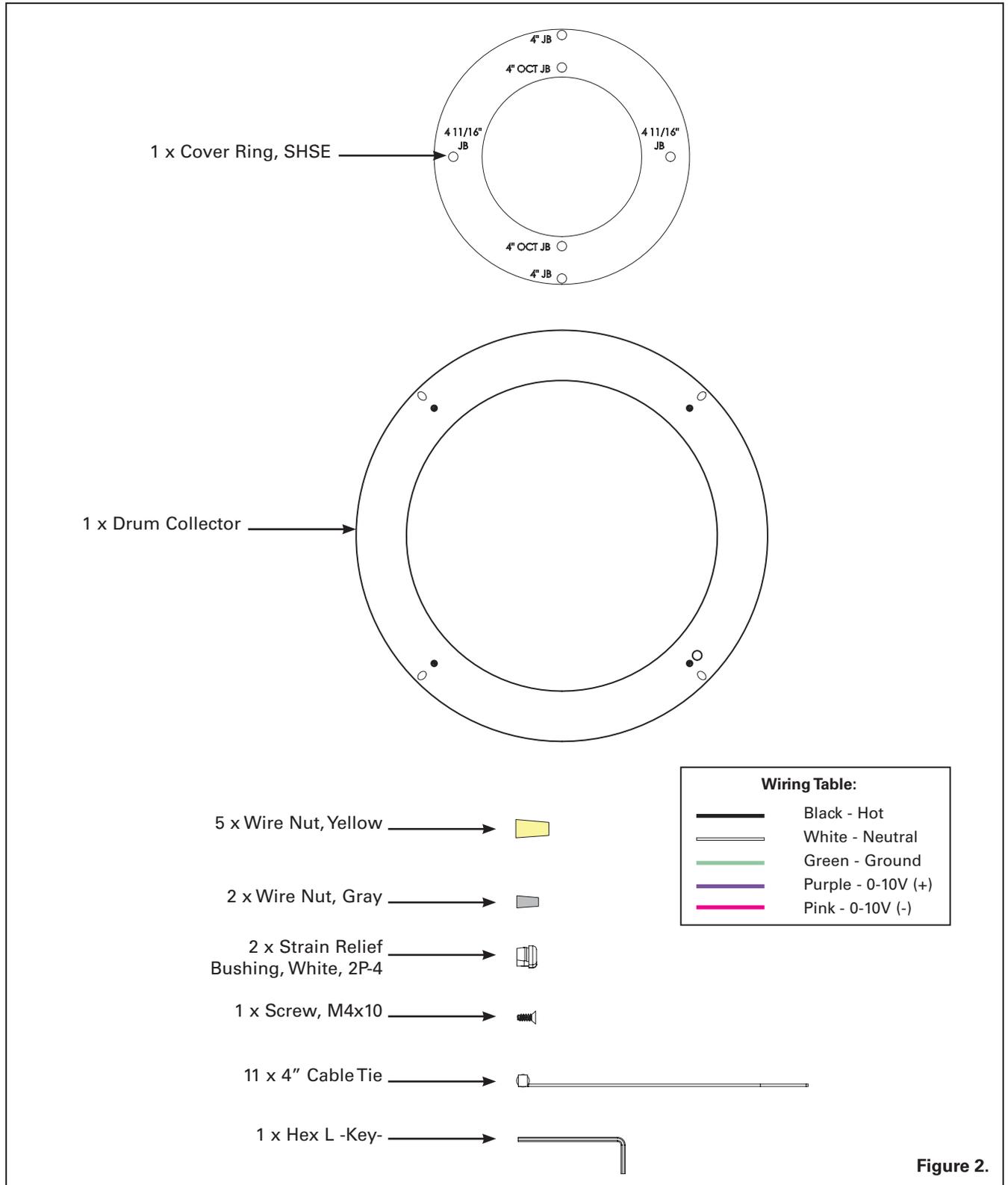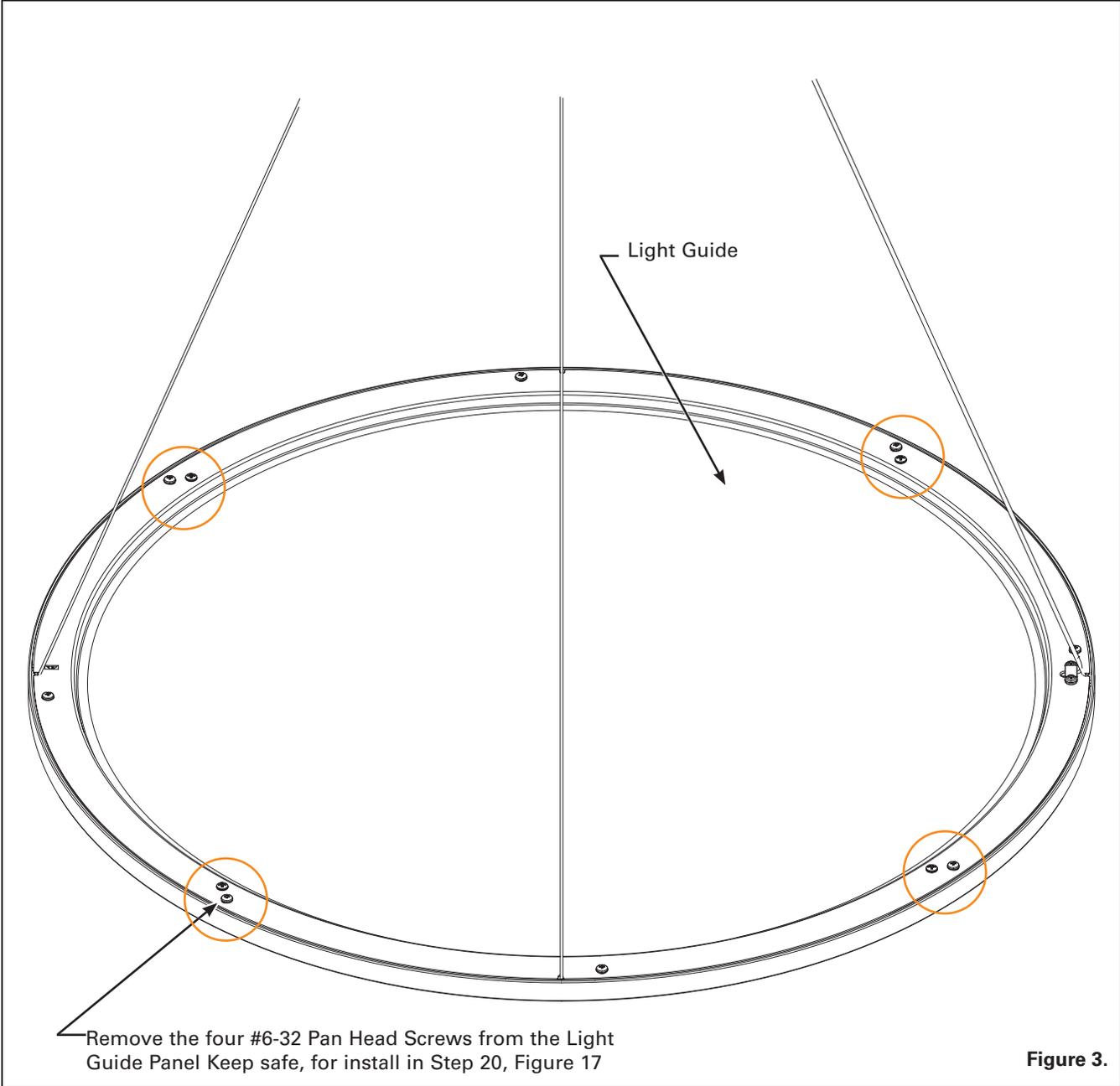
Figure 3.

Step 1. The Following Step #, is for the Light Guide Panel with acoustic Drum panels. Complete this step before Light Fixture is hung. Figure 3
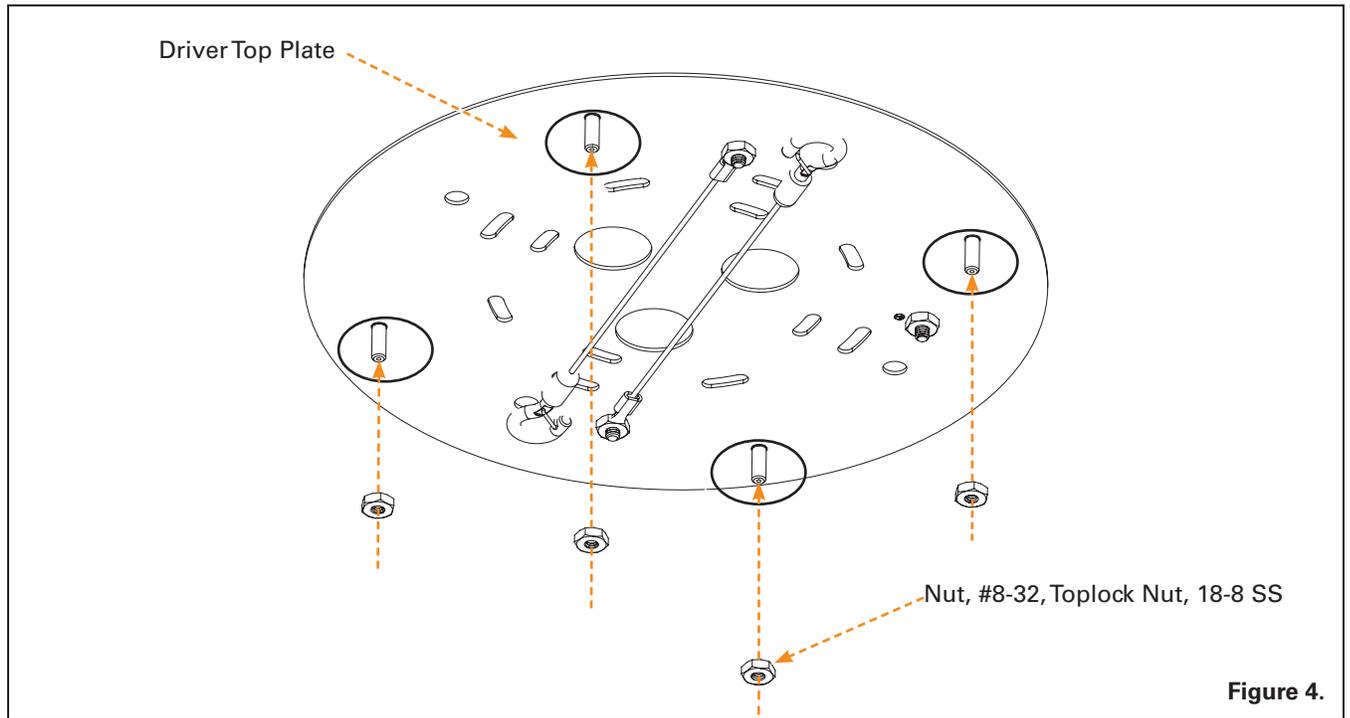
INSTALLATION

Driver Top Plate

Nut, #8-32, Toplock Nut, 18-8 SS

Figure 4.

Step 2. Preload the Top lock nut to the Driver top plate. Figure 4

Junction Box
(by others)

Driver Top Plate

J-Box Screws

Cover Ring

Safety Cables
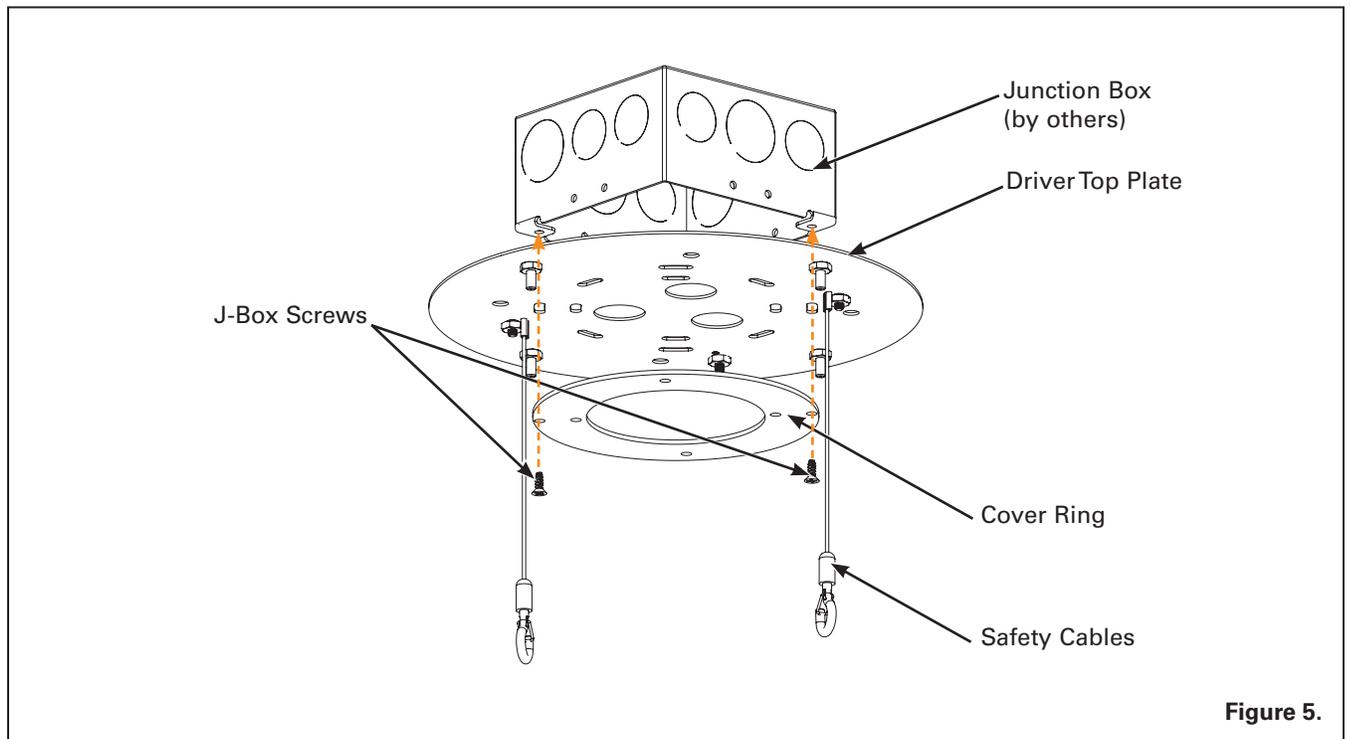
Figure 5.

Step 3. Using the J-Box screws, align the Cover Ring to inside of the Driver Top Cover. Screw the cover ring and the driver top plates to the J-Box. The Cover Ring must be used to reinforce the center of the Top Plate. Figure 5
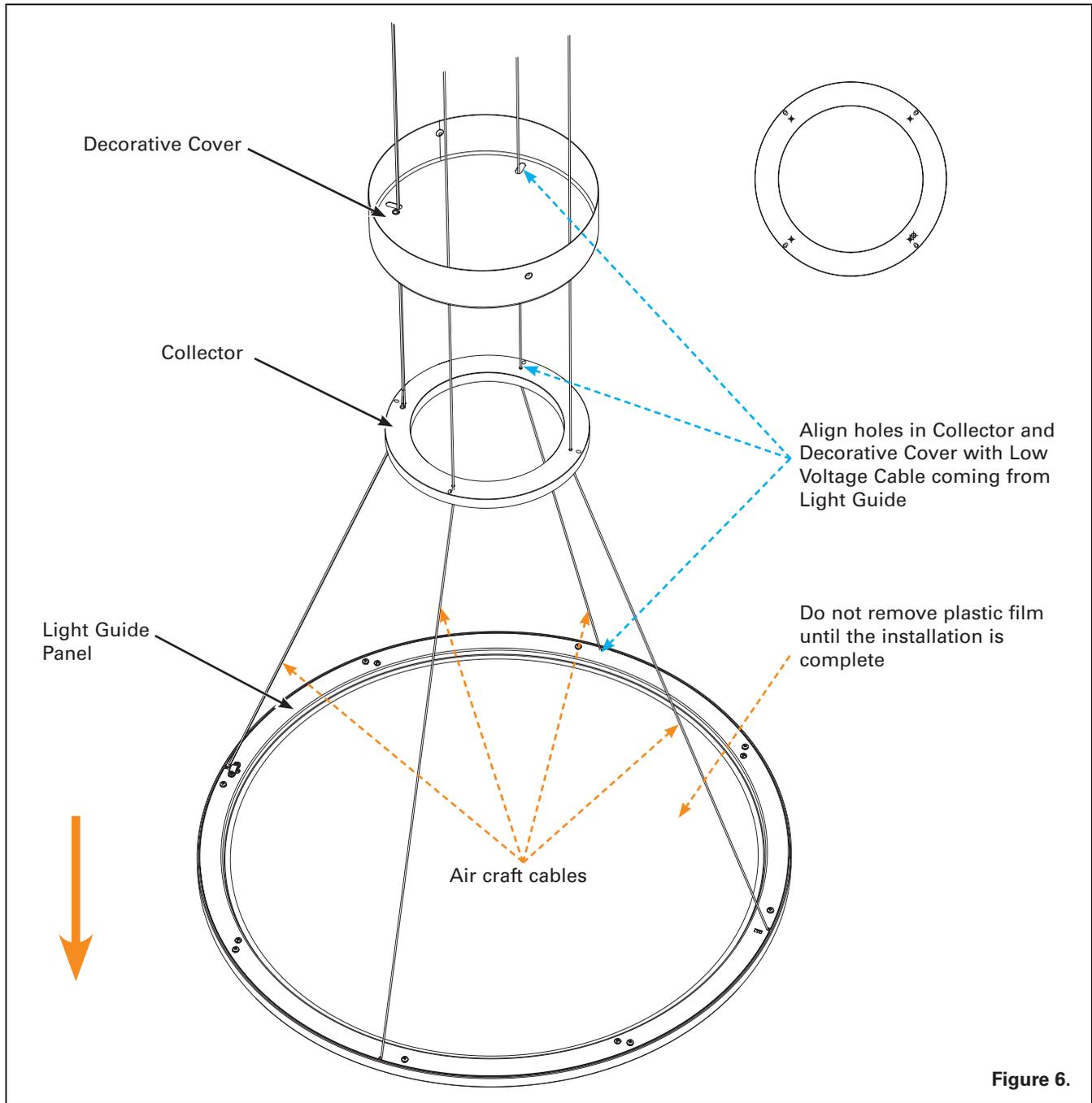
INSTALLATION

Decorative Cover

Collector

Align holes in Collector and Decorative Cover with Low Voltage Cable coming from Light Guide

Light Guide Panel

Do not remove plastic film until the installation is complete

Air craft cables

Figure 6.

Step 4 Take the four Air Craft Cables and Low Voltage Cables and feed them all the way through the Collector and Decorative Cover. Make sure to orientate the Collector and Decorative Cover so the Low Voltage Cable feeds through the correct features in the parts. The Low Voltage Cable will also need to orientate with the hole in the Driver Compartment Cover in the ceiling. Figure 6

Step 5. Rest the Collector and Decorative Cover on the Light Guide Assembly (Do not remove protective film until installation is complete.) Figure 6

INSTALLATION

Hole for Cable

Strain Relief

Decorative Cover

Spherical Cable Gripper
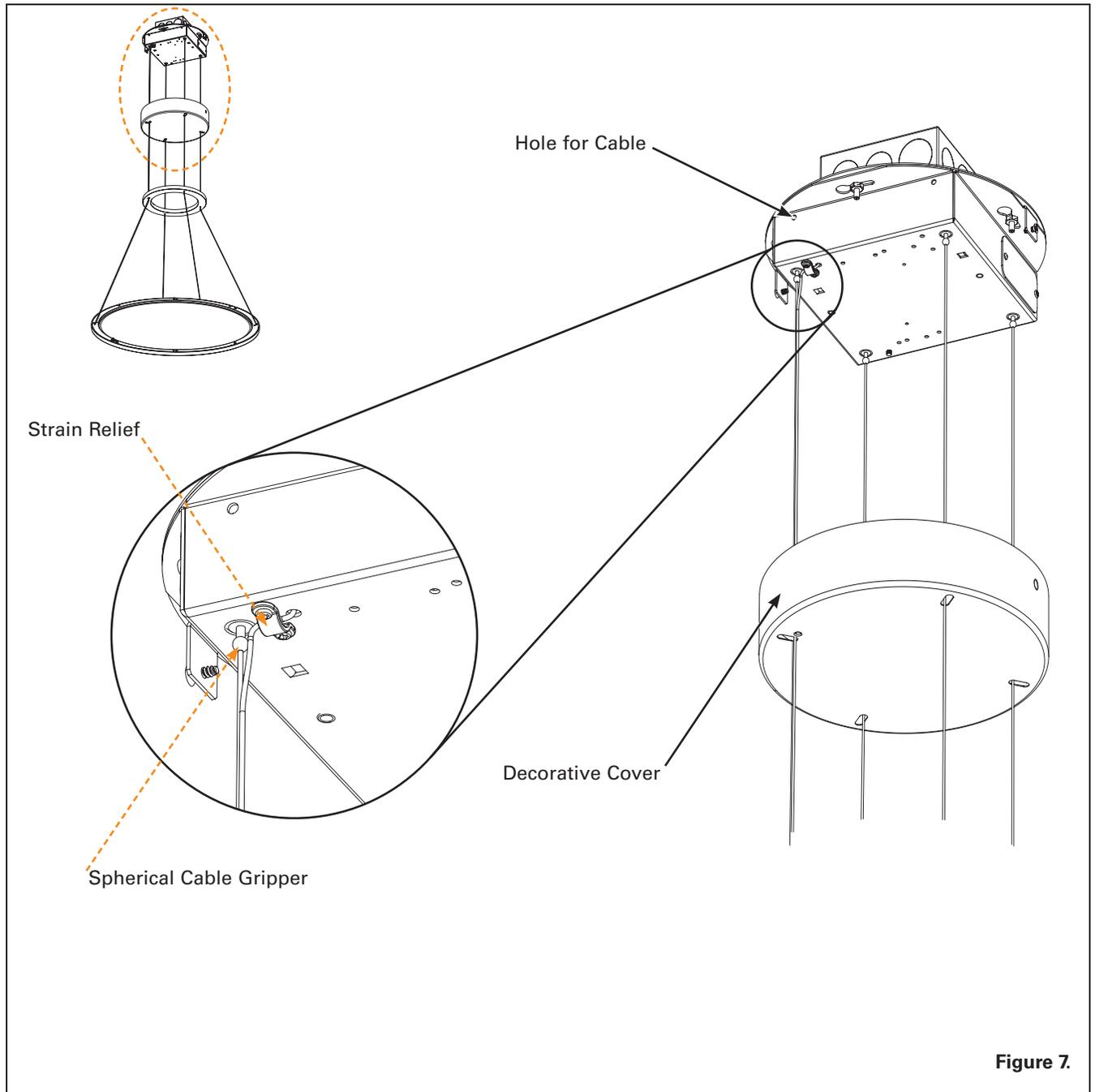
Figure 7.

Step 6. Insert the Air Craft Cables into the spherical shape Cable Grippers in the Driver Compartment. Raise Light Guide Panel by continuing to feed the Air Craft Cables through the Grippers, pulling the excess cable out of the hole for air craft cable as the light fixture is raised. To lower the cables, gently push up on the neck of the Gripper. Figure 7

Step 7. Feed the Low Voltage cable through the Strain Relief into the holes of driver compartment. Make the wire connections with driver using the wire nuts provided. Figure 7

INSTALLATION

Low Voltage Wire Entry

Ground Cable
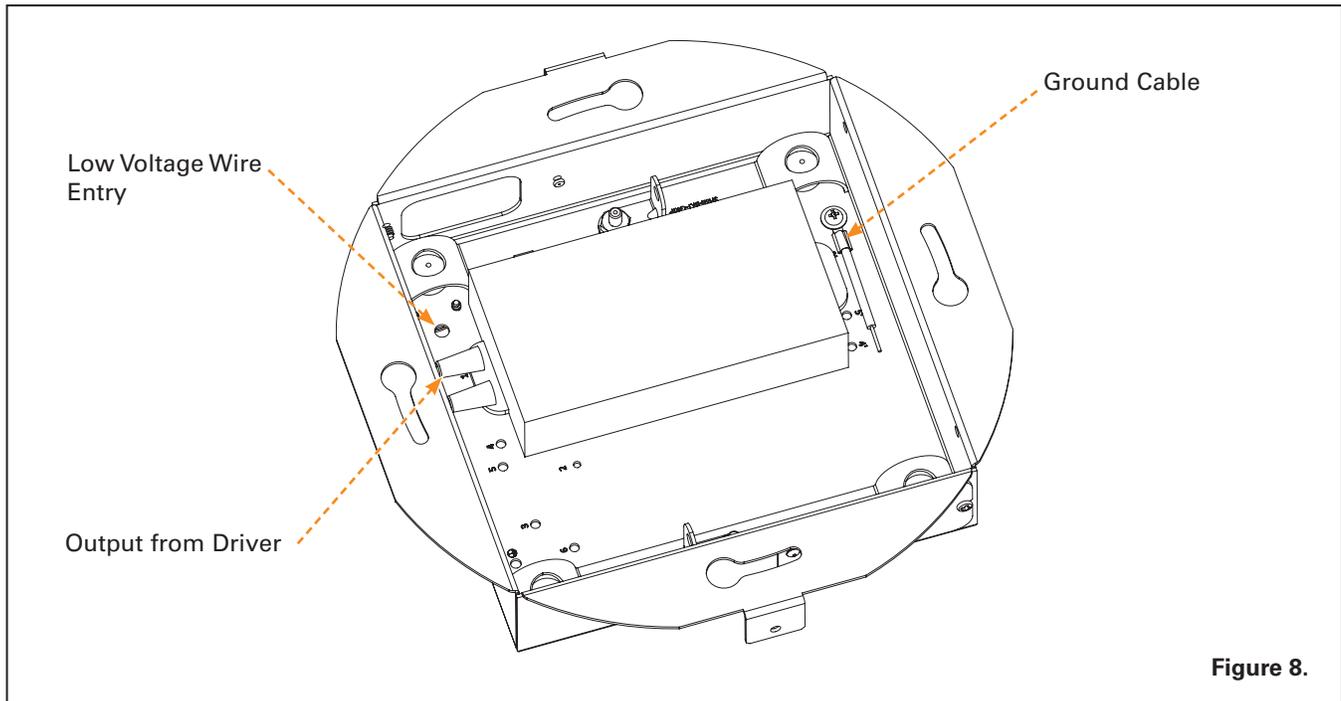
Output from Driver

Figure 8.

Step 8. Make the Low Voltage wire connections to the driver (LED output), with the Wire nuts provided. Figure 8

Step 9. Use the Ground Cable from driver box, to ground from J-Box wire and make connection with the wire nuts provided for ground. Figure 8
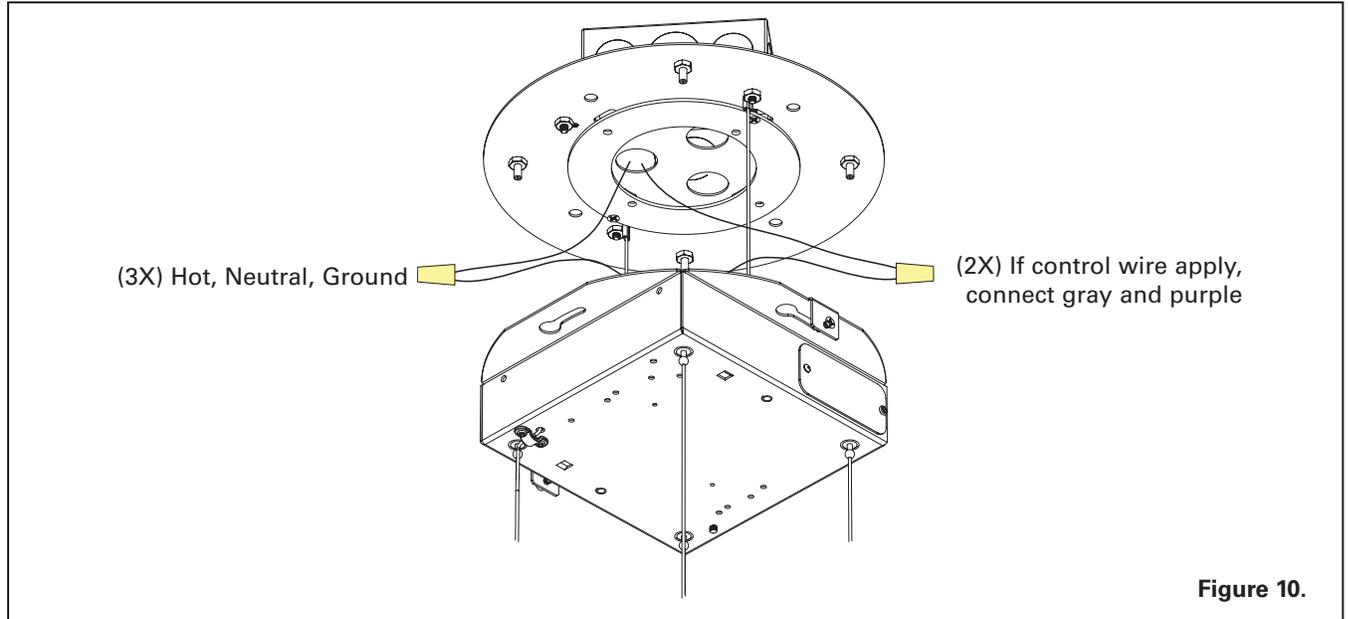

J-Box

Driver Top Plate

Temporary Holder – Safety Cable Tether

Driver Compartment
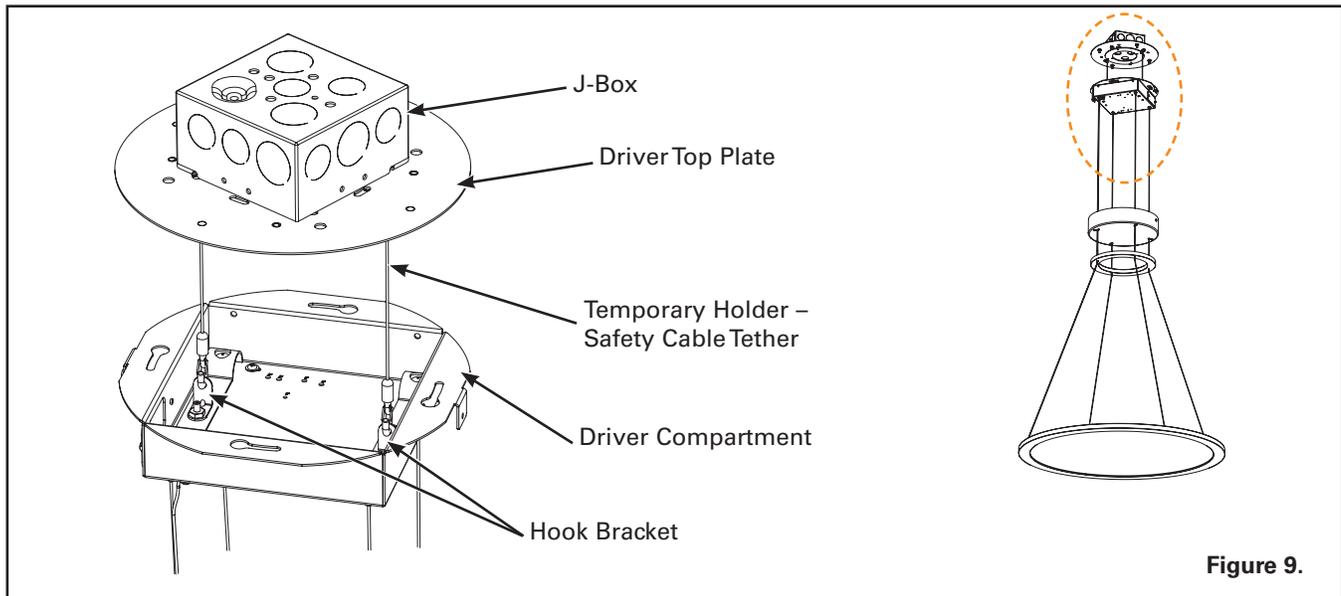
Hook Bracket

Figure 9.

Step 10. Lift the entire fixture by holding the Driver Compartment and suspend the fixture with the cables from Driver Top Plate. Figure 9

Using the Safety Cable and the Hook Bracket, hang the fixture, temporarily, until the wiring is done.

Make the wire connections with the driver (main line connections) with the Wire Nuts given. Figure 9

INSTALLATION

(3X) Hot, Neutral, Ground

(2X) If control wire apply, connect gray and purple

Figure 10.

Step 11. Connect the wires (main line) coming from J- Box with the driver. Figure 10

(Reference – one more view is shown).

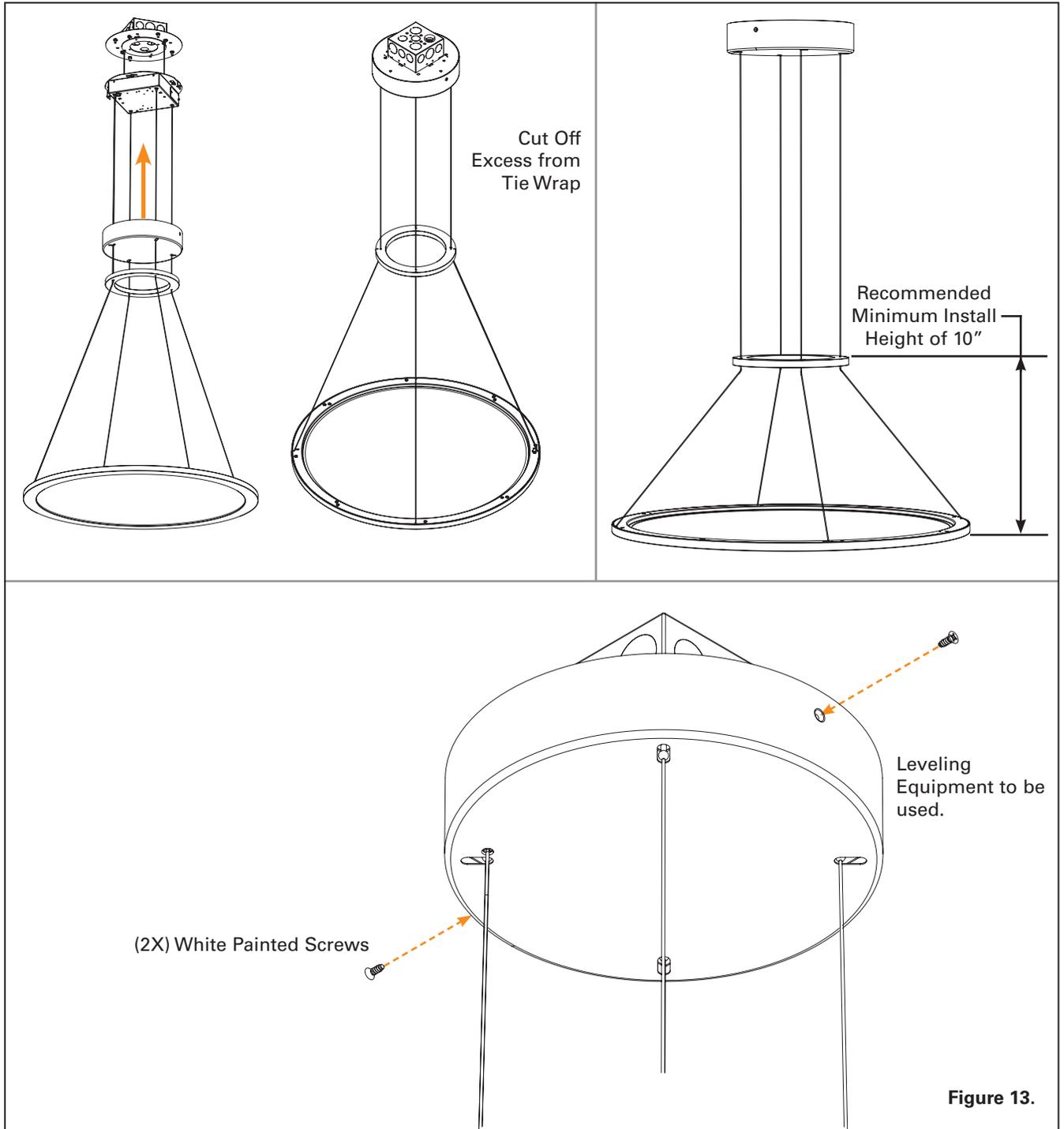Splice Inspection Access
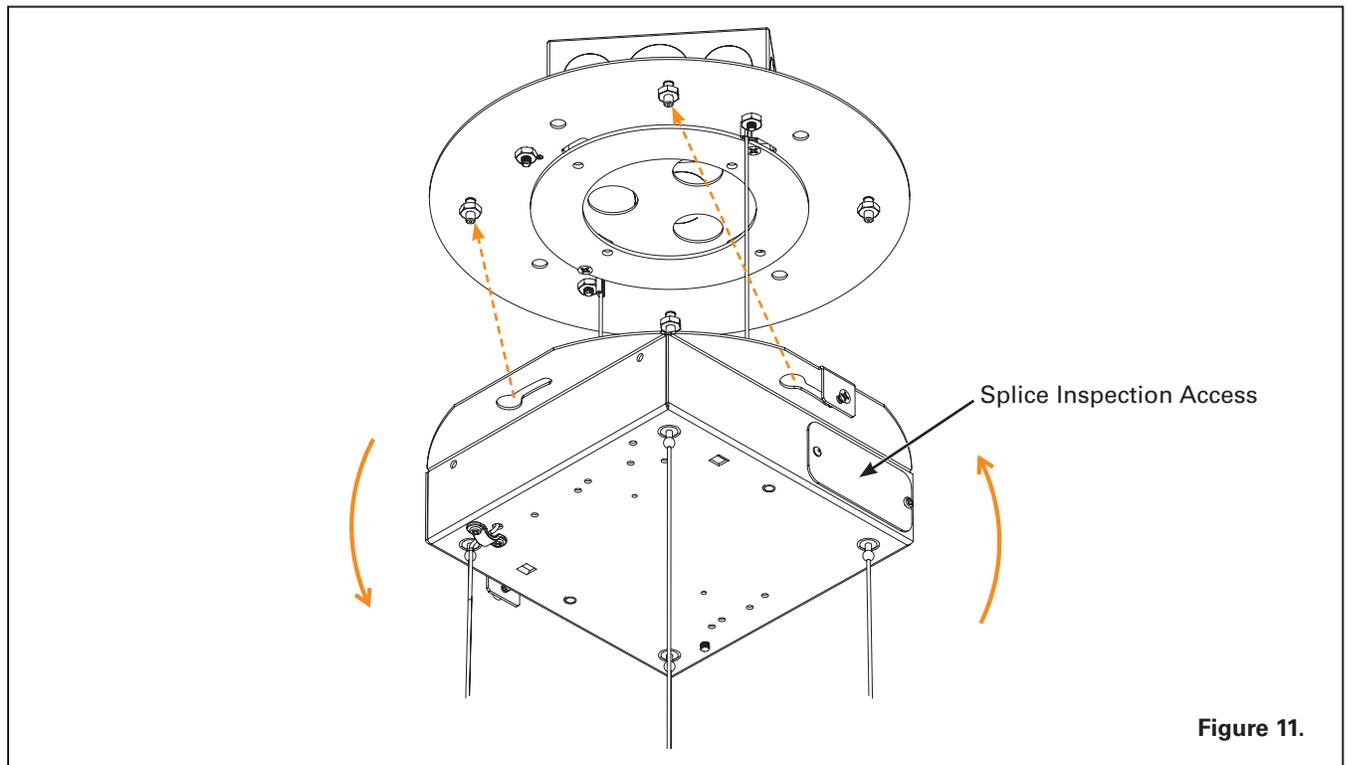
Figure 11.

Step 12. Slightly rotate the fixture so that the Preloaded Nuts align with the Key slot. Push the entire fixture up holding the driver box and let the excess cables and wire pack inside the driver compartment. Figure 11

INSTALLATION

#8-32 nut

Figure 12.
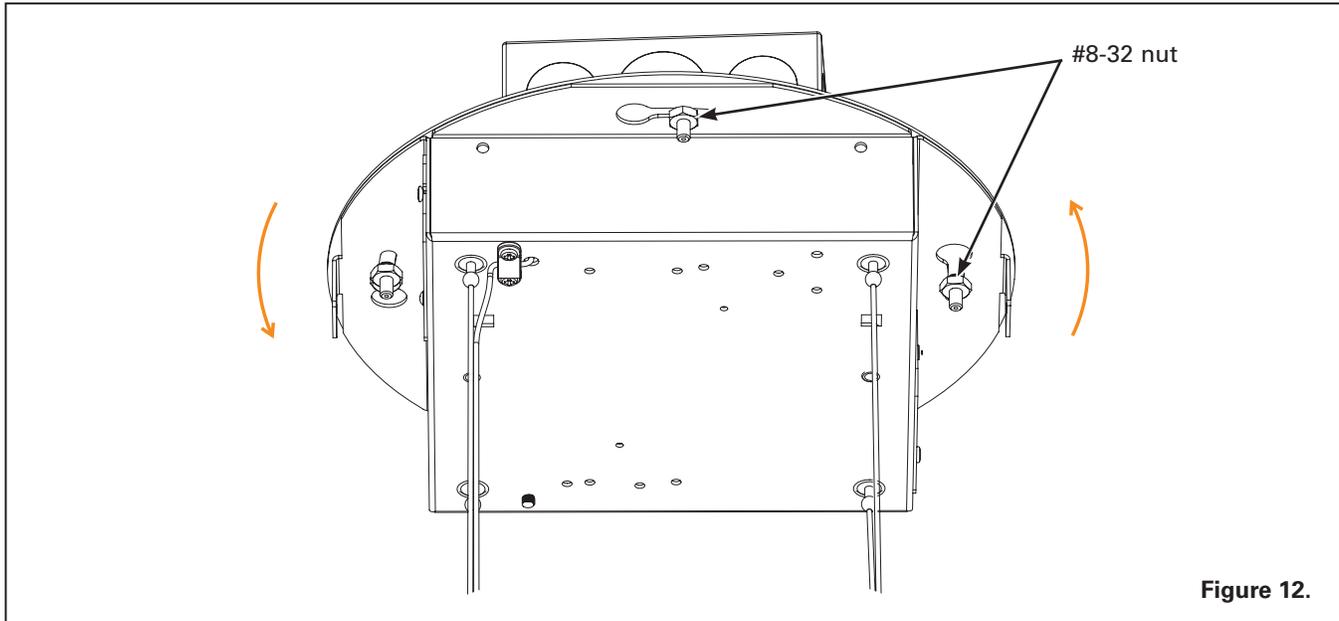
Step 13. Once the Key hole and #8-32 lock Nut has been oriented, slightly rotate the fixture so that the Stud slips into narrow portion of Keyhole. Once the position is fixed, tighten the nuts firmly (total 4 Nuts). Ensure all wires are inside driver enclosure and ensure no pinched wires. Figure 12

INSTALLATION

Cut Off Excess from Tie Wrap

Recommended Minimum Install Height of 10"

Leveling Equipment to be used.

(2X) White Painted Screws

Figure 13.

Step 14. Raise Decorative Cover and attach to the Driver Compartment using 2X M4 flat head screw (head painted white). Use Tie Wraps to keep the Low Voltage Cable taut against the Air Craft Cable. Figure 13

Installation Instructions – Shaper Sense Drum

Acoustic Panel Assembly
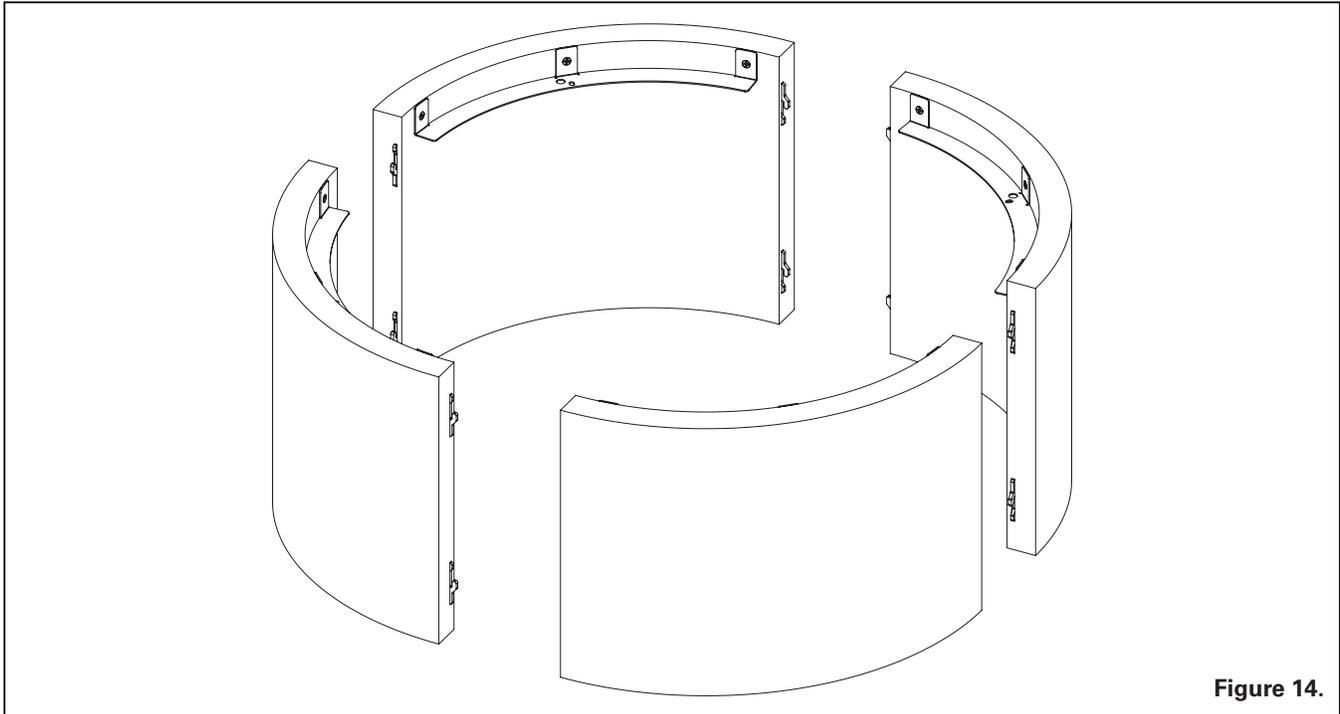
Figure 14.

NOTE : Use extra Gloves provided for acoustics assembly. Figure 14

NOTE : Place Acoustic Drum panels on protective clean surface to prevent from getting dust or debris.

Biscuit Joiner
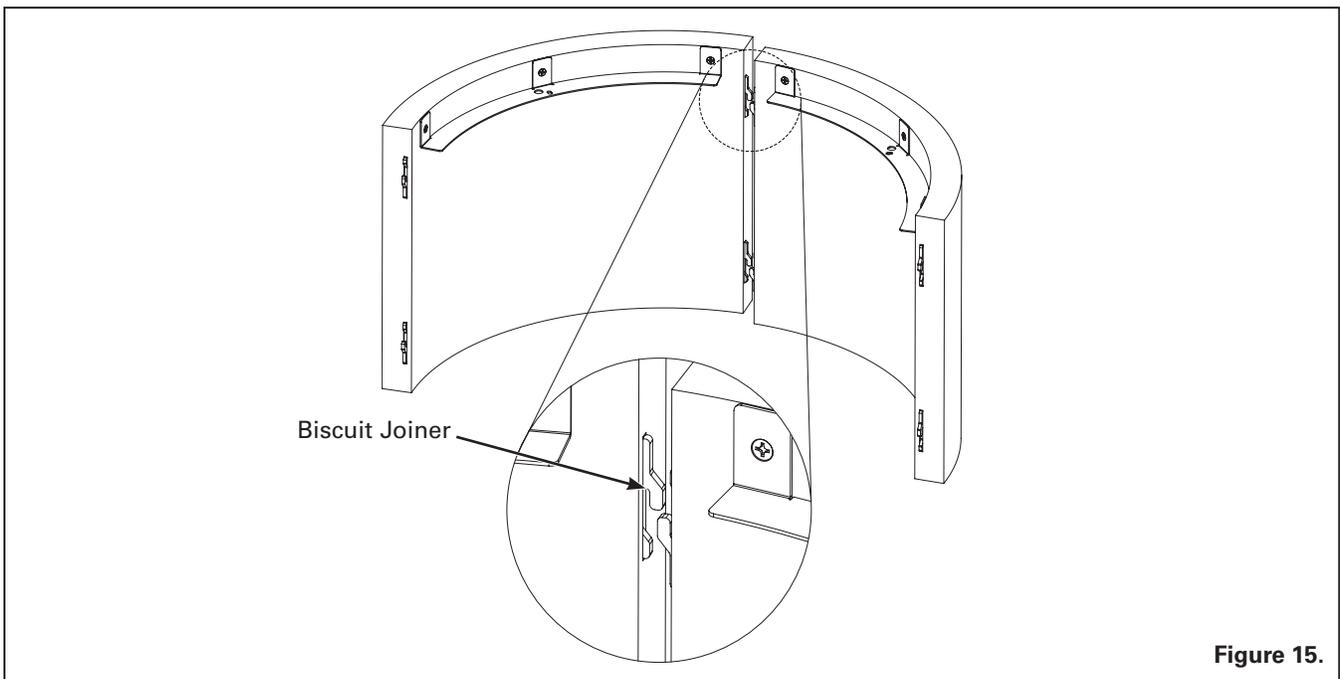
Figure 15.

Step 15. Align and insert the biscuits from on adjacent panel to another. Figure 15

Step 16. Use pressure to press downwards, and forcefully snap together. Figure 15

Step 17. Attach all 4 acoustic Drum panels together to make a sub-assembly. Figure 15

Step 18. Insert the Light Guide Panel in to the Acoustic Drum panel sub-assembly in the air through openings between curved bracket.
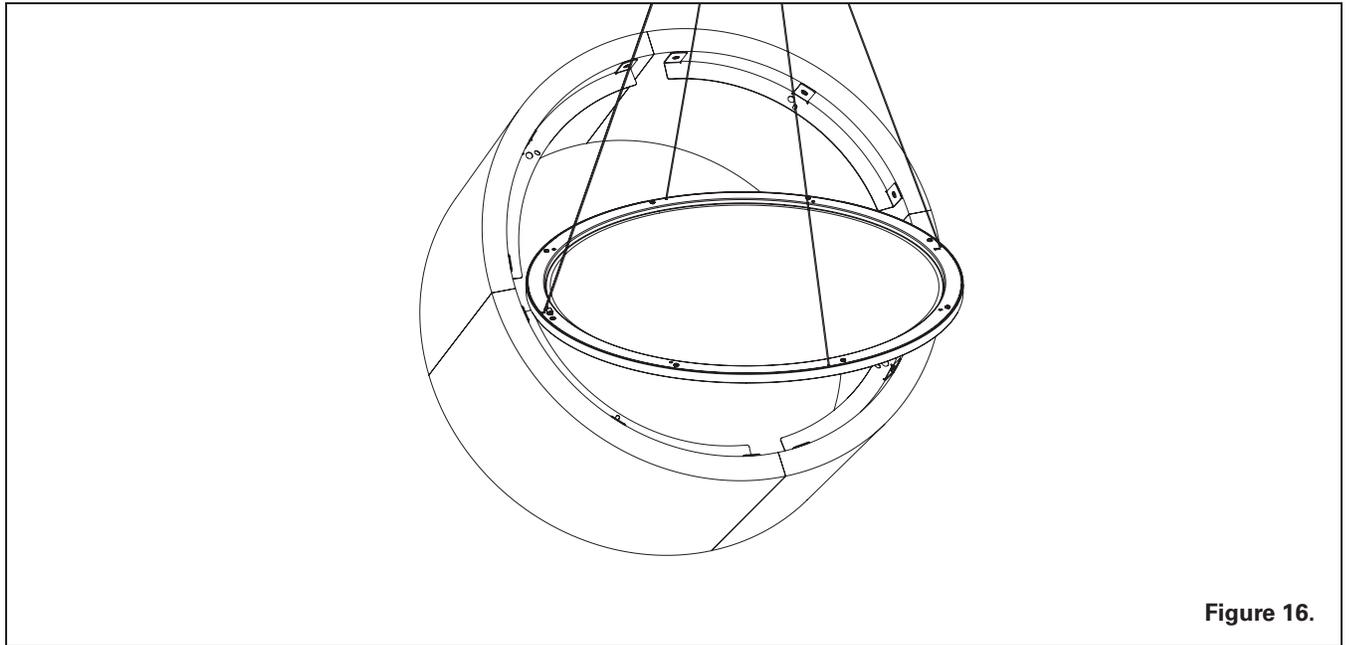
Figure 16.

Step 19. Attach the Acoustic Drum panel sub-assembly to Light Guide Panel, by fastening the (4) #6-32 screws to the curved brackets. Figure 16

Insert and Tighten
#6-32 Pan Head Screws
Removed Earlier
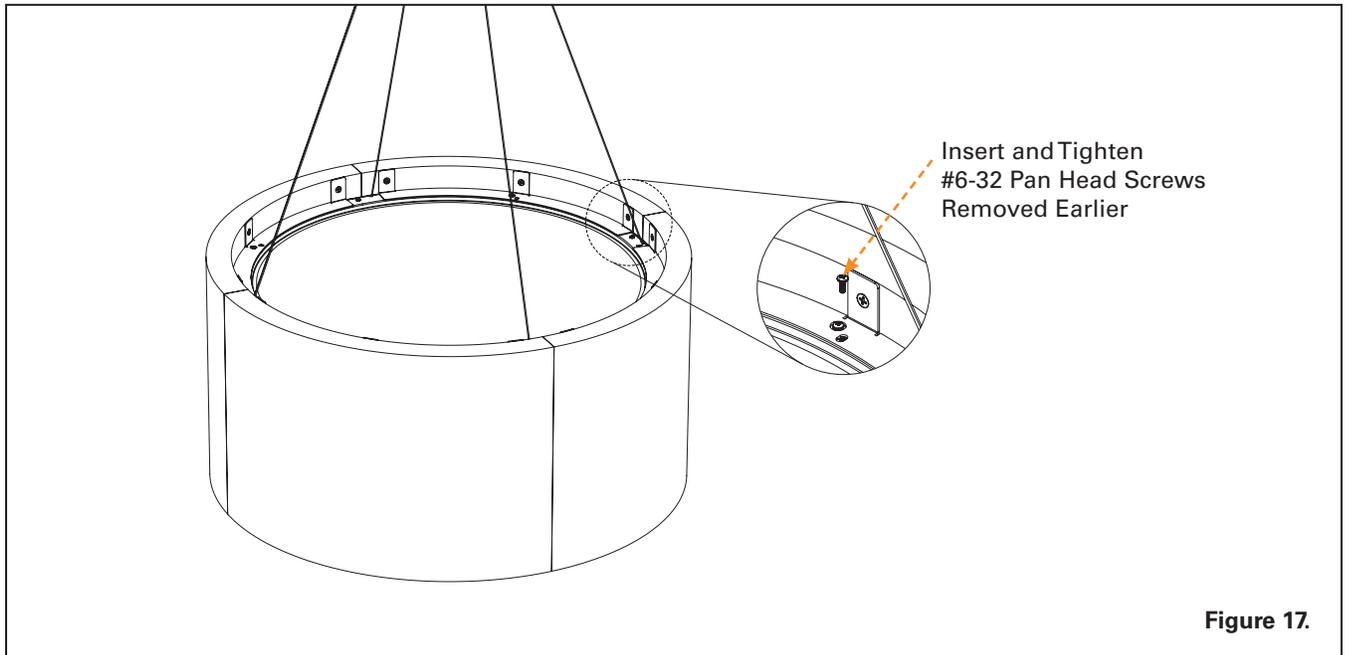
Figure 17.

Step 20. Align all the 4 holes of the Acoustics brackets to the Light Guide Panel holes and fasten the screws that were removed before assembly of Light Guide Panel. Figure 17

NOTE : Use caution not to pull Light Guide Assembly.

Step 21. Once the installation is complete remove protective film on Light Guide Panel. Figure 17

Cleaning Recommendation and Guidelines for Light Engine

Removing Dust from Optical Panels:
Use the following recommendations:

BEST: Using aerosol dusting spray, gently blow dust from top of optical panels.

GOOD: Using CLEAN Swiffer, VERY gently brush dust from top of optical panels.

NO: DO NOT rub dust from top of fixture with cleaning cloth or dirty duster.

Cleaning Optical Panels:
Use the following recommendations:

A: Blend 4 parts warm water and 1 part DAWN dish soap.

B: Dampen CLEAN micro fiber cloth (or equivalent) with cleaning solution and gently wipe optical panel in single direction.

C: Gently dry optical panels with micro-fiber cloth (or equivalent).

Acoustic Panels:

3mm thick 100% wool felt + the acoustic substrates incorporated in the fixtures all have a Class A fire rating. See FilzFelt website for listings

Acoustic Material Maintenance: Cleaning and Health Features

- A health benefit to using FilzFelt materials, is the ability for the material to be steam cleaned up to 200 deg F (93.3 deg C). This protects the space by ensuring that bacteria and viruses don't live on these surfaces, but allows the material to meet the needs of spaces today.

- The acoustic sound absorption substrate material used in Shaper Sense products are cleanable by bleach and other disinfectants. This makes the materials suitable for clean environments.

	Felt	Acoustic Substrate
General Cleaning	Vacuum occasionally to remove general air-borne debris. Spot clean with a mild enzyme-based detergent (such as Tide Free) and water solution. Avoid aggressive rubbing as this can continue the felting process and change the surface appearance of the felt.	Vacuum occasionally to remove general air- borne debris. Spot clean with a mild soap (such as Dawn) and water solution.
Deep Cleaning	Professionally steam	Wipe with 10:1 water- to-household bleach solution*.

Maintenance and Cleaning of felt and substrate

https://www.filzfelt.com/images/uploads/downloads/FF_Design_Felt_Maintenance.pdf

100% Wool Design Felt Maintenance + Cleaning

About Wool Design Felt

Wool felt is one of the oldest man-made textiles. Since felt is a nonwoven and does not require a loom for its production, ancient people were able to produce it quite easily. Felting of animal hair has been a means of creating clothing, shelter and artistic expression since at least 700 BC. Design Felt is high quality, eco-friendly, durable, with highly saturated colors, and is perfect for demanding design applications.

Water Repellency

While the core of the Merino fiber is capable of absorbing up to a third of its dry weight in moisture, the surface has a waxy coating that repels liquids. Water droplets on the surface of Merino will bead and roll off instead of being absorbed into the felt.

Mildew Resistance

Wool fibers have a natural water wicking property that prevents moisture from being retained in the felt and naturally inhibits mildew. Wool also has natural anti-microbial properties because bacteria tend to be attracted to smooth positively charged surfaces like those of synthetic fibers rather than the scaly, neutrally charged surface of the Merino fiber.

Stain Resistance

Lanolin, the naturally occurring waxy coating on wool fibers, makes wool water repellent and provides an inherent stain resistance. This allows time for liquid spills to be blotted away before permanent staining can occur.

Maintenance and Cleaning

Like any natural fiber, a minimal approach should always be taken to clean wool felt since the cleaning method could potentially do more damage than the stain. The cleaning approach should be (1) dust with a lint roller, (2) vacuum with a clean, soft brush, (3) clean with water and mild detergent, (4) clean with chemical spot remover. **Always test any cleaning method first in an inconspicuous area**.

Wool has a low degree of dry soil pick-up compared with other fibers. However, to remove the accumulation of general airborne debris, wool felt may be cleaned with a standard masking tape lint roller. It is always a good idea to use the lint roller first in any area intended to be spot cleaned. Once per year, it is recommended that the entire surface is given a light vacuum with a clean, soft horsehair upholstery brush. In a clean office environment, it may not be necessary to do this annually. Please note that slight shedding of wool fibers is normal and not indicative of any defect. These loosened fibers are easily vacuumed away and will decrease over time.

If a wet spill should occur, blot up the liquid as soon as possible with a dry cloth to avoid absorption. Avoid aggressive rubbing as this can continue the felting process and change the surface appearance of the felt. For removal of minor stains, if the felt can be removed it is best to obtain the services of a professional dry cleaning company that is familiar with the special care of wool. If not possible, a mild enzyme-based detergent (such as Tide Free) is recommended. Create a dilute solution by adding three parts water to one part detergent in a clean container. Use a clean paper towel to gently blot the detergent into the stain. Press and release, press and release. Using a separate container of just clear water, use clean, moist paper towels to blot more water into the stain. Press and release, press and release. Finish by blotting firmly with clean, dry paper towels until the area is nearly dry.

There are many solvent-based spot removers available. Although they are not recommended except in the case of emergency, the best choices for wool felt are dry cleaning fluids. Be sure to test in an inconspicuous area first. Blot the stained area with a clean cloth soaked in dry cleaning fluid, then blot with a clean cloth until dry.

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