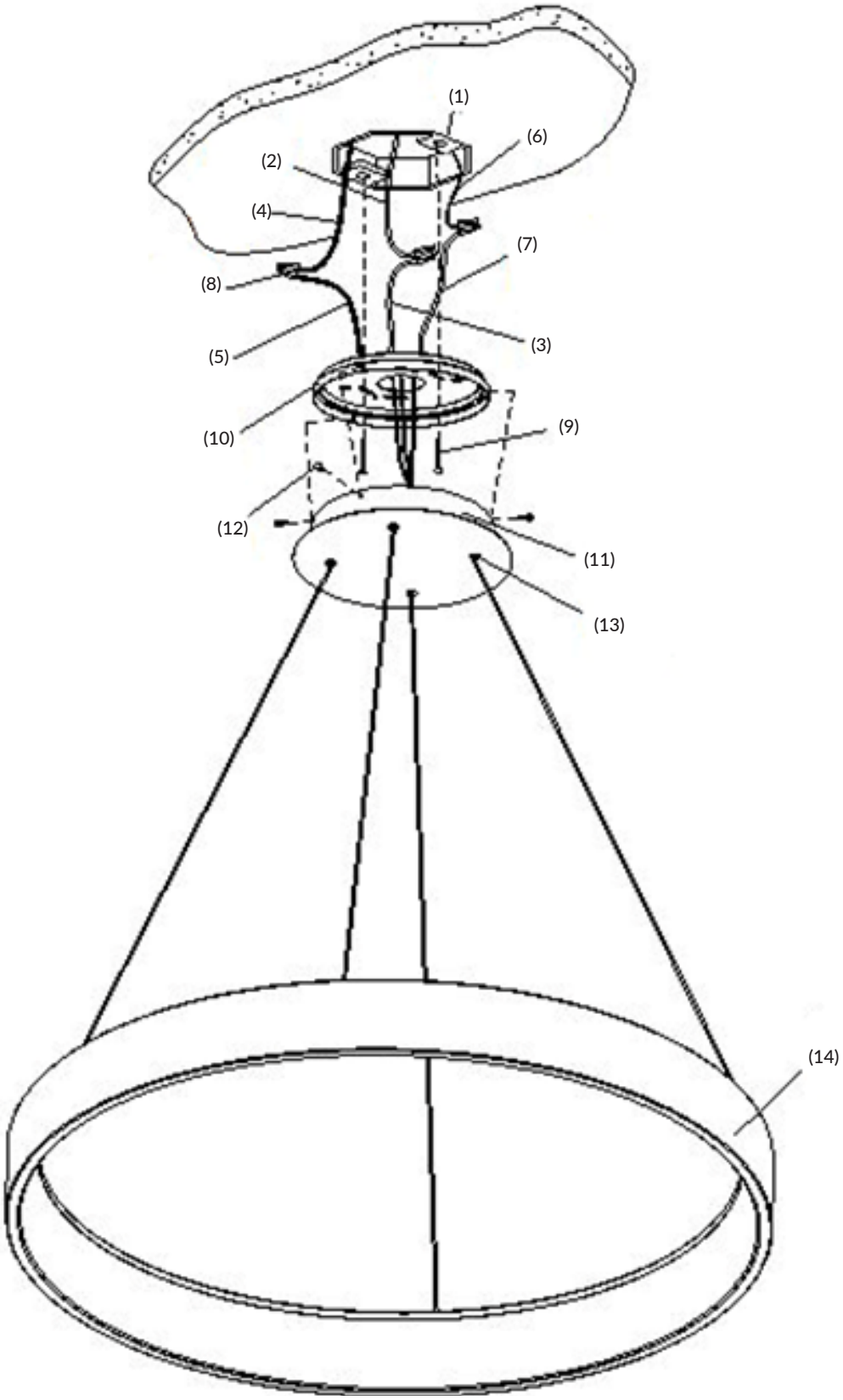
BLACKJACK® LIGHTING

PRODUCTION BUILD INSTRUCTIONS:

CIRCUIT PENDANTS - 24” / 32 / 43”

CIR-24P-XX-27U-XXK / CIR-32P-XX-27U-XXK / CIR-43P-XX-27U-XXK

EXPLODED VIEW – ASSEMBLY IDENTIFICATION



1. OUTLET BOX (by others)
2. WHITE SUPPLY WIRE
3. WHITE FIXTURE WIRE
4. BLACK SUPPLY WIRE
5. BLACK FIXTURE WIRE
6. HOUSE GROUND WIRE
7. FIXTURE GROUND WIRE
8. WIRE CONNECTORS
9. MOUNTING SCREWS
10. CEILING PLATE
11. CANOPY COVER
12. THUMBSCREW
13. GRIPPER
14. FIXTURE BODY

ATTENTION! PRIOR TO STARTING BUILD:

MAKE SURE TO USE THE PROPER SAFETY EQUIPMENT & PPE.
WEAR COTTON GLOVES WHEN HANDLING PAINTED SURFACES OF THE METAL SHADE.
REFERENCE THE ORDER. CHECK THAT ALL COMPONENTS HAVE BEEN PULLED CORRECTLY.
CHECK FOR ANY SCRATCHES OR IMPERFECTIONS ON EXPOSED DECORATIVE SURFACES.

1 – PREPARATION

A. Preparing Build

1. Check the Blackjack sales order and customer purchase order to confirm that the fixtures have the right model number on the box.
2. If the order is for more than one fixture, ensure that all boxes have the same P.O. number on them.
   i. Different P.O. numbers can contain different drivers that result in differences in lighted appearance between fixtures.
3. If the order is for more than one fixture, clear the work table with enough space to allow 2 boxes to sit side by side.

B. Tools Required

1. Utility knife
2. Safety tape dispenser
3. Wago Lever nuts
4. Power test cord

2 – ASSEMBLY

N/A

3 – TESTING / QUALITY CONTROL

A. Unpackage the fixture from inside the box.

1. Open the box using a utility knife to cut the tape.
2. Remove the top piece of Styrofoam.
3. Remove the four pieces of Styrofoam surrounding the center Styrofoam box.
4. Open the center Styrofoam box using a utility knife to cut the tape.
5. Remove the canopy from the plastic wrapping and place the plastic wrap aside.

Step A3

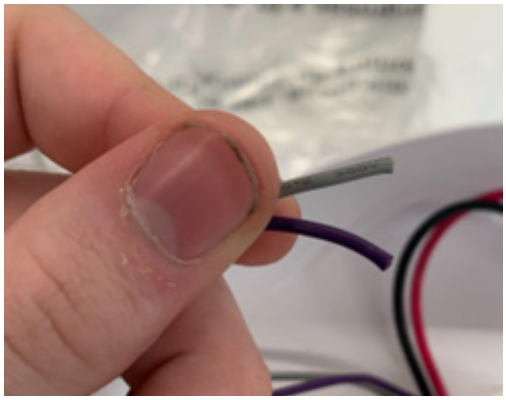
Step A4

B. Test the fixture wiring.

1. Unscrew the three knurled thumb screws from the canopy to review the internal wiring.
   i. Guarantee that the threading is correct
2. Softly pull on the wires to ensure that they are tightly in place.
   i. If wires are sent out loose, they will loosen further in transit, and can become disconnected when they are installed. Re-tighten/ re-solder wires if needed.
3. Ensure that the dimmer wires (purple and gray or purple and pink) are cut at the end so no exposed wire is shown.
   i. Exposed wires can cause a short from within the fixture and dim the light unintentionally.

Step B1

Step B2



Step B3

4. Connect the white (hot) wire and black (neutral) wire to a power cord using the Wago lever nuts.
5. Turn on the power strip to supply power to the driver and light up the fixture.
6. Run the fixture for a minimum of 5 to 10 minutes.
   i. Take a photo of the lit fixture for quality control record keeping purposes.
7. Flick the CCT board switch to every setting (27K, 30K, 35K, 40K) to ensure that it is working properly.
   i. Check to make sure no flickering occurs when switching. A common problem is that the light will flicker for 5-10 seconds after flicking the CCT switch.

Step B4

Step B7

8. Check if the fixture is set to the specified CCT with a hand held spectrometer.
   i. The fixture must be within 100K of the specified CCT.
   ii. Take a photo of the spectrometer reading for quality control record keeping purposes.
9. If the order contains more than one fixture, compare the lit fixture to another lit fixture to ensure visual consistency across the order.

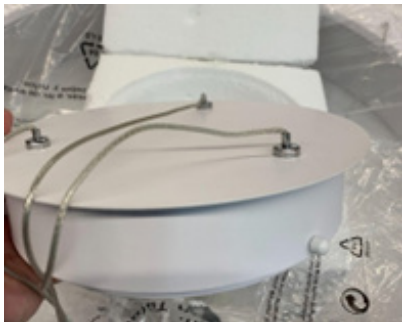
10. For the first fixture of a given order, allow the fixture to run for a minimum of one hour.
    i. Check to make sure that the fixture is not flickering after extended running.
    ii. Feel the canopy to make sure it has not heated up to an unbearable temperature.
        1. If it is excessively hot, use an IR thermometer to measure the temperature.
        2. Take a photo of the thermometer reading for quality control record-keeping purposes.
11. Unplug the wires from the power cord by detaching from the lever nuts.
12. Pack the wires back inside the canopy.
13. Close up the canopy using the three knurled thumb screws.

Step B8

C. Inspect the fixture components

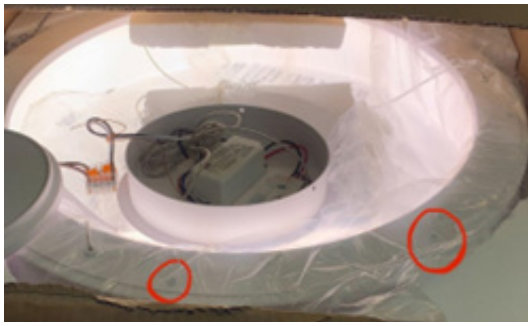
1. Inspect the outside of the canopy to ensure that there are no scratches, blemishes, or defects anywhere.
2. Inspect the outside of the circuit fixture to ensure that there are no scratches, blemishes, or defects anywhere.
3. Check to make sure that the fixture is not missing any screws on the housing.

Step B9



Step C1

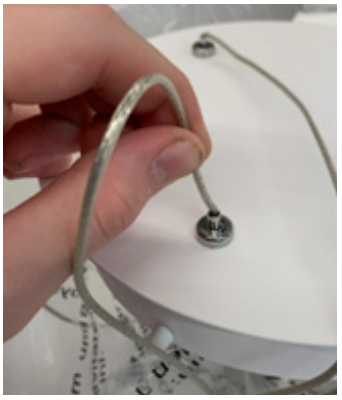
Step C2



Step C3

4. Ensure that the hardware bag containing wire nuts and screws is inside the box.
5. Pull lightly on the cables on the circuit fixture until they are tight against the roof of the fixture.
    i. One common problem is that the lights have shadows where these cables fall into the fixture because the hooks on the inside of the lights slip down and are not pulled taut.
6. Pull lightly on the cables on the canopy until they are tight against the roof of the canopy.
    i. One common problem is that the fixtures hang unevenly when they are installed because these cables are not pulled evenly taut.

Step C5



Step C6

4 – PACKAGING

A. Re-packing.

1. Return the canopy to the inside of the plastic wrapping.
2. Tape the center Styrofoam box closed in a plus-shape using the safety tape dispenser.
3. Place the four pieces of Styrofoam around the center Styrofoam box to stabilize it in place.

Step A1

Step A2

Step A3

4. Take a photo of the fixture wrapped up for quality control record keeping purposes.
5. Place the top piece of Styrofoam into the box.
6. Tape the box closed along the center lines and two side edges using the safety tape dispenser.

5 – TROUBLESHOOTING

A. If all of the LEDs are not working:

1. Check the connections from the line voltage house wiring to driver input
2. If all connections are good and still no LEDs are illuminated
   i. Check wiring on low voltage side of driver, see if it is making contact with the wires to the PC board
   ii. If wires connected to driver are good then test driver voltage output
   iii. If driver does not produce the correct output, then replace driver

B. If a single section LED does not light:

1. Is LED section connected to the driver?
2. Use multimeter to check continuity between pendant connector and the positive and negative terminals on the LED
3. Check for shorts on both positive and negative
4. Check for correct orientation of the wire
5. If LED section is installed correctly and the wiring is correct then replace LED section

C. If the LED flickers:

1. Check for loose connections between the LED and the driver
2. Check each diode on the LED to make sure they are all illuminated
3. Replace LED section if not all the diodes light up

NOMINAL CCT (K)			TARGET CCT & TOLERANCE (K)
2136	**2200**	2340	**2238 ± 102**
2340	**2500**	2580	**2460 ± 120**
2580	**2700**	2870	**2725 ± 145**
2870	**3000**	3220	**3045 ± 175**
3220	**3500**	3710	**3465 ± 245**
3710	**4000**	4260	**3985 ± 275**
4260	**4500**	4746	**4503 ± 243**
4746	**5000**	5312	**5029 ± 283**
5312	**5500**	6022	**5667 ± 355**
6022	**6000**	7042	**6532 ± 510**