

CAUTION

Turn off the main power at the circuit breaker before installing the fixture in order to prevent possible shock. If you are unfamiliar with proper electrical wiring connections, obtain the services of a qualified electrician.

GENERAL

Read all instructions carefully for safe operation and installation.

All electrical connections must be in accordance with local and national electrical code (N.E.C.) standards.

Remove the fixture and mounting package from the box. Make sure no parts are missing by referencing the illustrations on these Installation Instructions. Please contact Blackjack Lighting at 847-941-0588 if any parts are missing or damaged. This product is suitable for DAMP locations.

**IMPORTANT**

- For factory pre-set option, customer to select pattern and provide distance of longest pendant. Signoff on Blackjack-generated configuration drawing or designer-supplied submittal drawing required. Pendants are pre-installed and pre-configured by Blackjack per signed submittal drawing. Customized installation instructions are supplied as necessary.
- For customer-set (DIY) option, pendants are installed in canopies with approximately 6' cable exposed. Customer to connect canopies and make adjustments to cable length in-field as desired.
- Standard 8' total of field-adjustable cable is included with each pendant (unless otherwise specified); no cutting or splicing required should adjustments need to be made in the field.
- Appropriate number of joiners and spacers included to complete configuration installation.
- Individual canopies with pendants can weigh as much as 50 pounds. Canopies and system must be mounted to rigid ceiling material (e.g., sheet rock, fire-rated plywood or similar) that can support system weight and accept drywall anchors, expandable fasteners or similar structural fasteners.

INSTALLATION FOR INTEGRAL MODULAR QUATRO (DRIVER INSIDE OF CANOPY)**PREPARATION**

1. Carefully remove the fixture from its box, and carefully unpack the bundled wire packages. Be careful not to bend or kink wires when unpacking. Remove the additional package with decorative light guides (14). Separate the ceiling plate (7) from the face plate (8) by loosening the four decorative finials (9).

MOUNTING

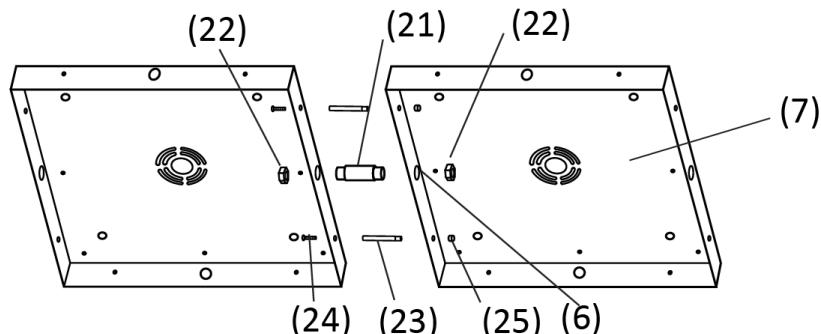
2. This fixture must be mounted into a rigid ceiling material (sheet rock, fire-rated plywood or similar) that can support the weight of the fixture and accept drywall anchors, expandable fasteners or similar structural fasteners (by others).
3. Place the ceiling plate (7) over the junction box (1). It is recommended to start over a junction box (1). For a custom made modular assembly, each fixture has an orientation and a specific location for installation. During installation, align all the orientation arrows located on the inside of the custom fixtures, to face the same direction. Drill eight support holes in the ceiling material using an appropriately sized drill bit. Insert ceiling anchors (15) (by others) into the holes. First screw the anchor screws (16) halfway into the ceiling anchors; when the ceiling plate (7) is properly aligned in the installation, fully tighten all anchor screws (16). (See Figure 5)
4. Pull the supply wires (2 & 3) and the house ground wire (4) out of the junction box (1) and thread them through the large center hole in ceiling plate (7). If this fixture will be attached to a 0-10V dimmer (optional), also pull the two 1-10V dimming wires through the large center hole.

INSTALL SPACERS AND JOINERS

5. For runs that will use fixture spacers (23) and joiner kit(s) (21), first install the female side of the spacers (23) into fixture ceiling plate (7). Thread the male screws (24) through the spacer holes from inside of the ceiling plate (7) housing. Tighten them securely into the spacers (23) to secure. (See Figure 1)
6. Push out large center knock-out from first ceiling plate's (7) mating side. Remove the knurled ring (22) from either side of the joiner (21) and insert one end of threaded tube into the knock-out opening. Re-tighten the knurled ring (22) on one side. (See Figure 1)
 - a. To mount the second fixture, push out large center knock-out from second ceiling plate (7). Install the second ceiling plate into the side with the fixture spacers and joiner kit. Insert fixture until it is securely aligned by the threaded rods of fixture spacers. Mark and drill eight support holes using the appropriately sized drill bit into a rigid ceiling material. Insert ceiling anchors (by others) into the holes. First screw the anchor screws halfway into the ceiling anchors (15); when properly aligned with the joining ceiling plate (7), fully tighten all anchor screws (16) (see figure 5). Place knurled ring (22) over the end of the joiner bracket (21), and place the hex nuts (25) over exposed thread on the fixture spacers (23), and tighten. Feed the three pole 120-277V 36" extension wire (26) and (Optional) 0-10V dimming 36" extension wires (27) through joiner tube (21) into the second fixture. (See Figures 1 and 3)

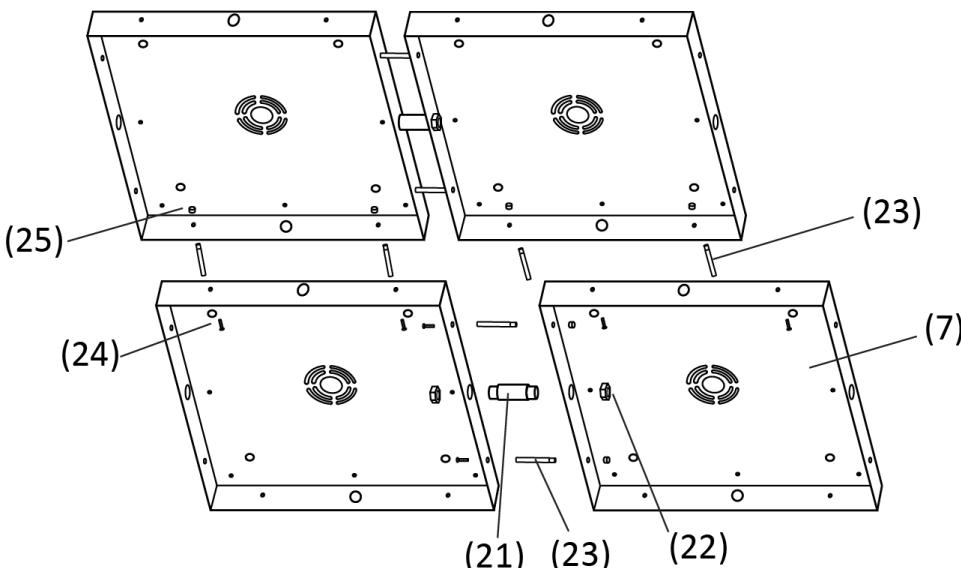
INSTALLATION FOR INTEGRAL MODULAR QUATRO (DRIVER INSIDE OF CANOPY)

FIGURE 1



- c. For additional connected modules in this first row repeat the procedure above.
(Note: It is recommended to start with a fixture located at a junction box) and complete a single row.
Ensure orientation is correctly squared before proceeding to the next row.
- d. For additional rows of fixtures use spacer kits (23-25) to correctly space fixtures apart from one another.
Install spacers (23) with the male threaded side pointing toward the first row, and leaving the female side of the spacer to face the newly installed row. (See Figure 2)

FIGURE 2



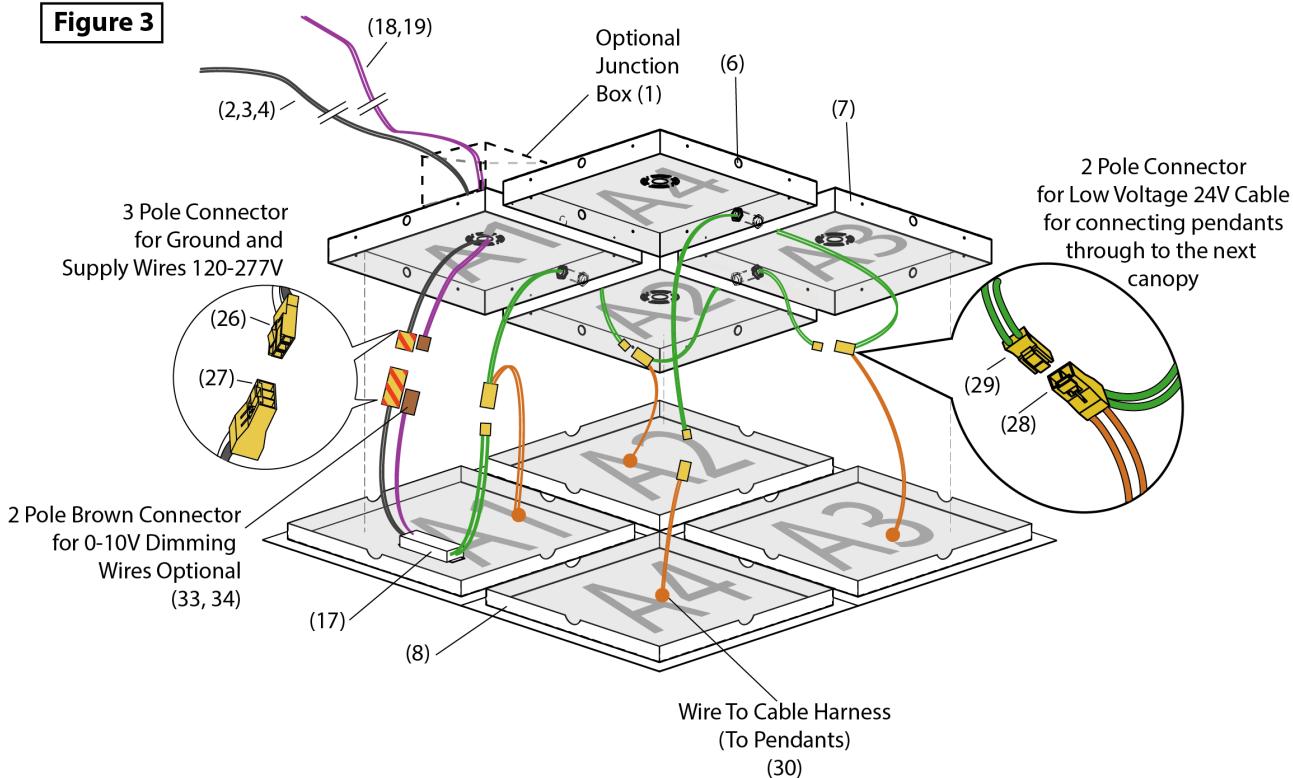
CONNECT SUPPLY POWER AND DIMMING CABLES TO FIRST OR SINGLE DRIVER

7. Bring the Positive, Negative, and ground leads of the supply wires (2,3,4) to the 3-pole connector (26,27). Attach these three wires to the male side of the 3-pole connector (27). Connect the Input wires from the driver (17) to one side of the 6 port, female, 3-pole connector (26) (See Figure 3,4,5,6)

- a. If connecting to the 0-10v dimming: Bring the dimming control wires (18,19) to the 2-pole brown connector (33, 34). Attach these two wires to the male side of the brown connector (34). Connect the 0-10v dimming control wires from the driver to side of the 4-port, female, brown connector (33).
- b. Connect the male and female 3-pole connectors (26, 27) and the 2-pole brown connectors (33, 34) together when the face plate (8) is suspended below the ceiling plate (7) right before final installation.

INSTALLATION FOR SINGLE INTEGRAL DRIVER

Figure 3



SINGLE INTEGRAL DRIVER INSTALLATION (if multiple drivers skip this step)

8. When powering multiple canopies from one driver, connect the drivers (17) low voltage output wires to a 2-pole yellow connector (28, 29). (See figure 3 and 4)

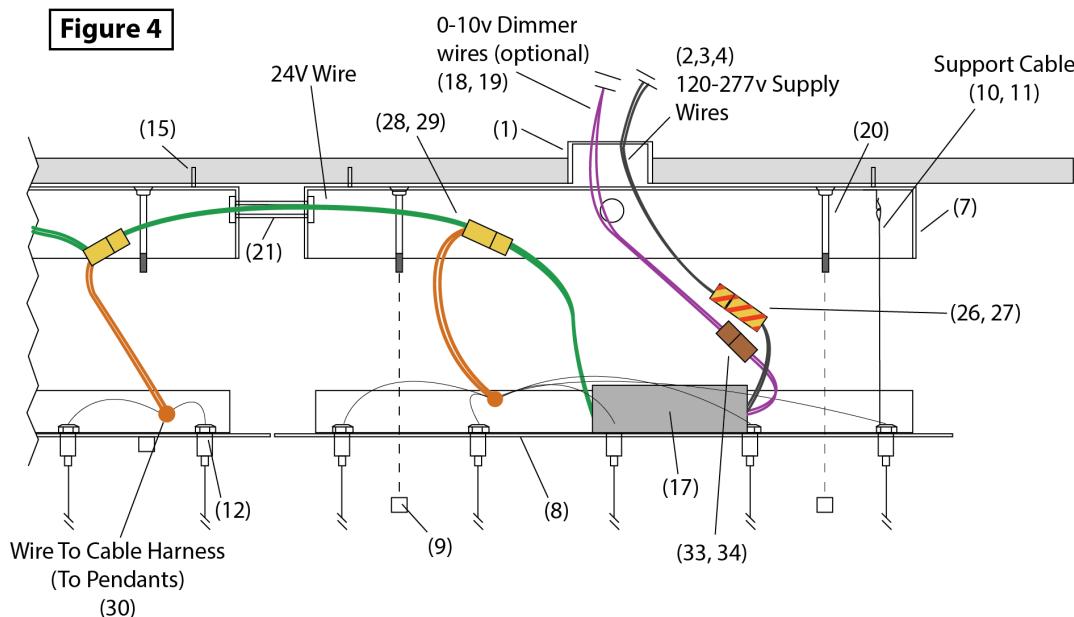
- Attach the positive and negative 24V output from the driver to the male side of the 2-pole, yellow connector (29).
- Connect the positive and negative wire harness cable (30) to one side of the 4-port, female, 2-pole connector (28).
- If connecting more than one canopy to the driver: connect the 24V low voltage cable (35) to the other side of the female connector (28).
- If connecting more than one canopy to the driver: Attach the positive and negative 24V output from the other side of the 24V low voltage cable (35) to a male 2-pole yellow connector (29) and feed the male connector through the joiner connecting this canopy to the next one in line to be powered.
- Connect the male and female 2-pole connectors (26, 27) together when the face Plate (8) is suspended below the ceiling plate (7) right before final installation.

SINGLE INTEGRAL DRIVER INSTALLATION (to attach additional canopies) (Skip this step if multiple drivers)

9. Connect the positive and negative wire harness cable (30) to one side of the 4-port, female, 2-pole connector (28) (See Figure 3 and 4)

- If connecting additional canopies to the driver: Follow the wiring instructions in step #8.
- connect the male and female 2-pole connectors (28, 29) together when the face plate (8) is suspended below the ceiling plate (7) right before final installation.

INSTALLATION FOR SINGLE INTEGRAL DRIVER



FINAL ASSEMBLY

10. Assemble light guides and socket (13, 14) and adjust cord lengths before attaching the face plate (8) ceiling plate (7)
 Note: If fixture is preconfigured, skip to step 13.

- To install a decorative light guide (14) simply screw the threaded top of the light guide diffuser (14) into a socket (13). (See Figure 7)
- Determine the approximate length of each suspension wire. If in doubt about exact length needed, leave a little extra wire until final installation of face plate (8). Push the excess wire into the canopy by pressing the small barrel of the gripper (12) upward. This will release the wire tension and allow the suspended wire to be pulled through the gripper (12). Roll excess wire into a small loop inside the canopy. Use supplied velcro strap, attached to each wire in the face plate (8). (See Figure 3, 4)

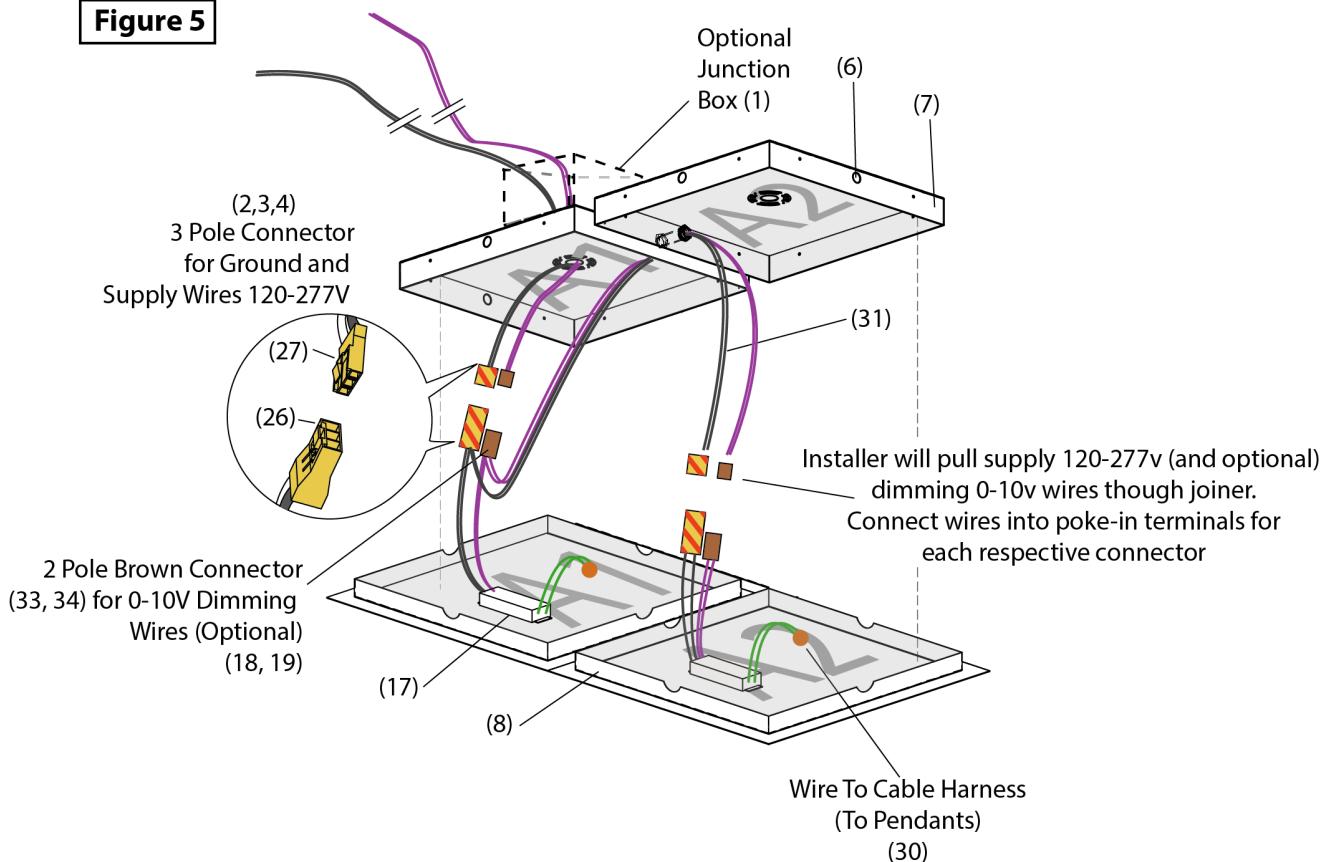
11. Suspend the from face plate (8) from ceiling plate (7) by attaching three support loops (11) to their mating hooks (10).

12. Make sure all wires are carefully placed inside face plate (8) and make sure all of the orientation arrows are aligned. Secure the canopy cover (8) to the ceiling plate (7) by aligning the holes in the canopy cover with the threaded standoffs (20), then tighten the four decorative finials (9) onto the threaded standoffs (20). Once the canopy is in place, fine tune the wire lengths longer or shorter to get each light guide adjusted to its preffered length by pushing the end of the gripper (12). (See Figure 4)

IF SINGLE DRIVER SKIP MULTIPLE DRIVER STEPS AND MOVE TO PAGE 8

INSTALLATION FOR MULTIPLE INTEGRAL DRIVERS

Figure 5



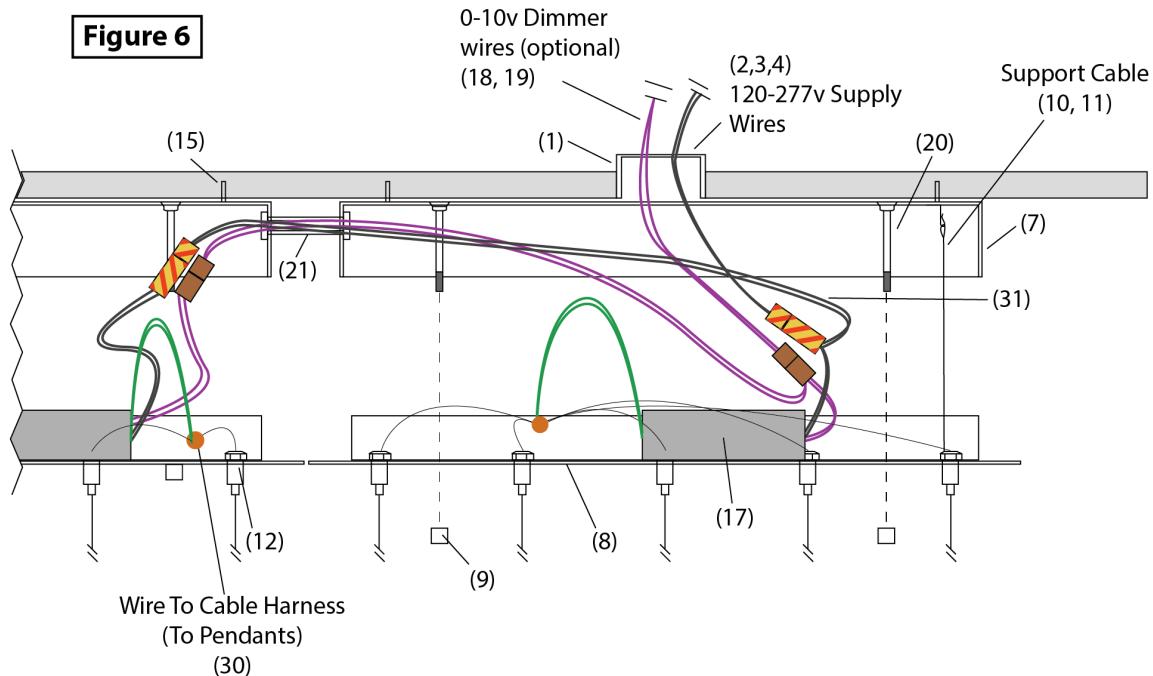
MULTIPLE INTEGRAL DRIVER INSTALLATION (If Single Driver is used skip this step)

13. Bring the Positive and Negative leads from the output wires of the driver (17) to the 3-pole connector (26,27). (See Figure 5 and 6)

- Attach these two wires on one side of the 6 port, female, 3-pole connector (26).
- Connect the positive and negative output from the extension supply wire (31) to the other side of the 6-port, female, 3-pole connector (26).
- Attach the positive and negative output from the other side of the extension supply wire (31) to a male, 3-pole yellow connector (29) after the supply wire (31) is fed through the joiner connecting this canopy to the next one in line to be powered.
- If connecting the 0-10v dimming: bring the dimming control wires from the driver to the 2-pole brown connector (33, 34). Attach these two wires to the male side of the brown connector (34). Connect the dimming extension wire (32) to one side of the 4-port, female, brown connector (33).
- If connecting the 0-10v dimming: Attach the positive and negative output from the other side of dimming extension wire (32) to a male, brown connector (34) after the dimming extension wire (31) is fed through the joiner connecting this canopy to the next one in line to be dimmed.
- Follow the wiring instructions in step #7 for connections to next integral driver.
- Connect the male and female 3-pole connectors (26, 27) and the 2-pole brown connectors (33, 34) together when the face Plate (8) is suspended below the ceiling plate (7) right before final installation.

INSTALLATION FOR MULTIPLE INTEGRAL DRIVERS

Figure 6



FINAL ASSEMBLY

14. Assemble light guides and socket (13, 14) and adjust cord lengths before attaching the face plate (8) ceiling plate (7)
Note: If fixture is preconfigured, skip to step 13.

- To install a decorative light guide (14) simply screw the threaded top of the light guide diffuser (14) into a socket (13). (See Figure 7)
- Determine the approximate length of each suspension wire. If in doubt about exact length needed, leave a little extra wire until final installation of face plate (8). Push the excess wire into the canopy by pressing the small barrel of the gripper (12) upward. This will release the wire tension and allow the suspended wire to be pulled through the gripper (12). Roll excess wire into a small loop inside the canopy. Use supplied velcro strap, attached to each wire in the face plate (8). (See Figure 3, 4)

15. Suspend the from face plate (8) from ceiling plate (7) by attaching three support loops (11) to their mating hooks (10).

16. Make sure all wires are carefully placed inside face plate (8) and make sure all of the orientation arrows are aligned. Secure the canopy cover (8) to the ceiling plate (7) by aligning the holes in the canopy cover with the threaded standoffs (20), then tighten the four decorative finials (9) onto the threaded standoffs (20). Once the canopy is in place, fine tune the wire lengths longer or shorter to get each light guide adjusted to its preffered length by pushing the end of the gripper (12). (See Figure 4)

IF MULTIPLE DRIVER STEPS COMPLETE MOVE TO PAGE 8

Fine tuning: Once the length of each wire has been established, any remaining bends or kinks in the wire can be straightened by bending out the kinks by hand while heating the cord with the warm air from a hair dryer or heat gun. Or contact BlackJack Lighting for a handheld wire straightener.

DIMMING

- Fixture Dimming Type: TRIAC, ELV, or 0-10V dimmable.
- For recommended dimmers see <https://www.blackjacklighting.com/dimming-information>

HARDWARE PER FIXTURE



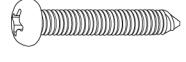
Hook and Loops (#10, 11)

[3 Included]



Decorative Finial (#9)

[4 Included]



Anchor Screw (#16)

[Supplied by others]

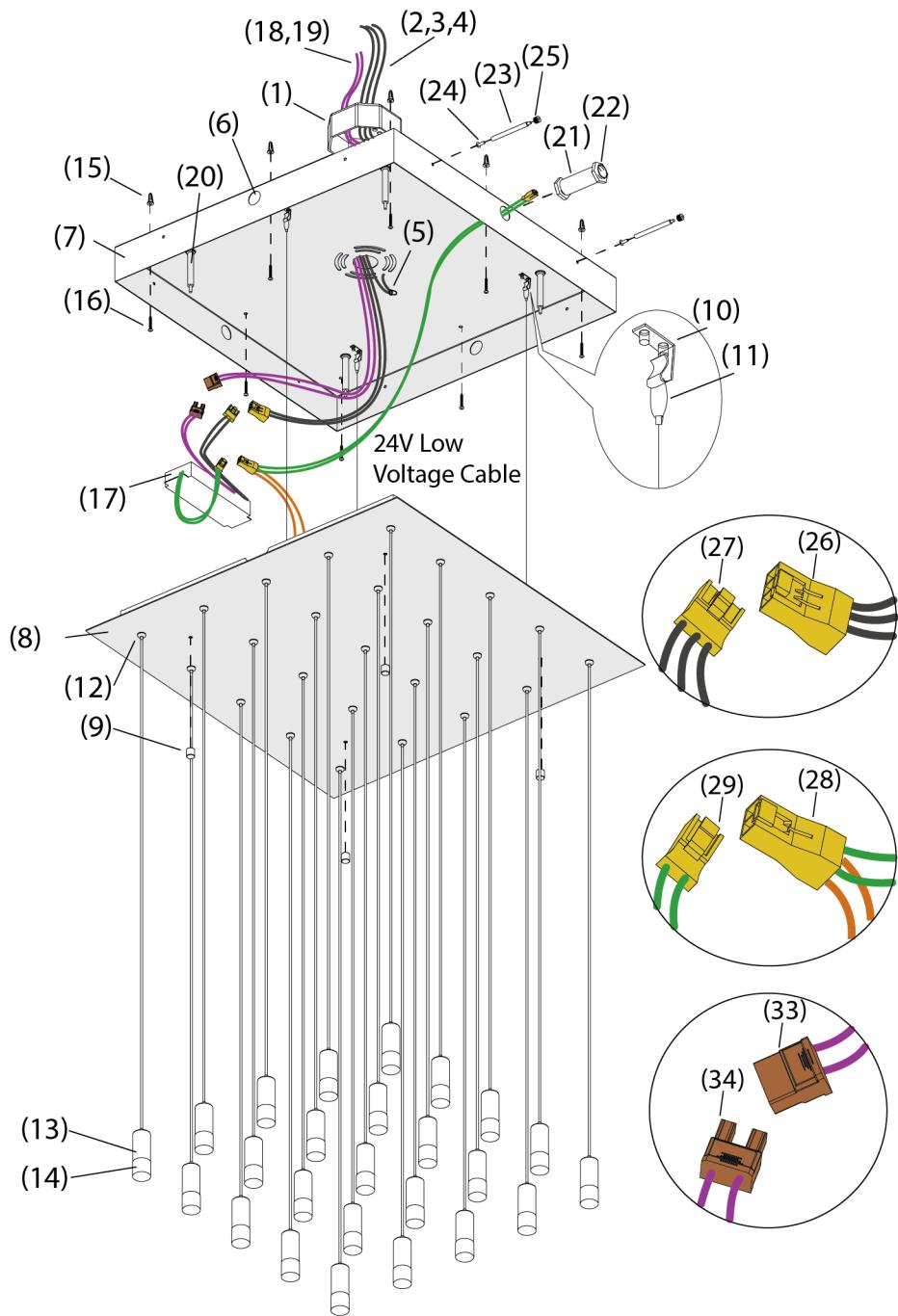


Figure 7

1. Junction Box (by others)
2. White Supply Wire
3. Black Supply Wire
4. House Ground Wire
5. Fixture Ground Wire
6. Joiner Kit Knock Out
7. Ceiling Plate
8. Face Plate
9. Decorative Finial
10. Hook
11. Loop
12. Gripper
13. Socket
14. Light Guide
15. Ceiling Anchor (by others)
16. Anchor Screw
17. Driver
18. 0-10V Dimming + (optional)
19. 0-10V Dimming - (optional)
20. Threaded Standoff
21. Joiner
22. Knuled Ring
23. Spacer
24. Male Spacer Screw
25. Spacer Hex Nut
26. 3 Pole 120-277V Conductor Female
27. 3 Pole 120-277V Conductor Male
28. 2 Pole 24V Conductor Female
29. 2 Pole 24V Conductor Male
30. Wire Harness Cable
31. 120-277V Extension Supply Wire
32. 0-10V Dimming Extension Wire
33. 2 Pole Brown Connector Female
34. 2 Pole Brown Connector Male