# orion

# Installation Instructions

### Industrial High Bay Fixtures with Universal V Hanger and Adjustable Wire Hanger

#### Instruction Number: P-INT-X-358

Use this instruction to install the industrial High Bay fixtures with V Hanger and Adjustable Wire Hanger.

#### Components

- 1 (2)Universal V Hanger
- 2 (2) Adjustable Wire Hangers (available in various lengths)
- **3** Industrial High Bay fixture with mounting tabs

#### Tools Required for Installation

- -Cordless Drill
- -Tape measure

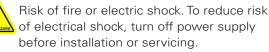
-Eyebolt (or other enclosed support for adjustable wire hanger, see below for typical fastners and driver)





#### Step-by-Step Instructions

#### WARNING!



Driver

- 1. Field installers are responsible for recognizing specific site requirements and making adjustments to assure a complete, functional installation.
- 2. Make all power connections using UL listed components.
- 3. Electrical connections must be made by a qualified electrician and in accordance with NEC and local codes.
  - 1 Remove fixture from packaging. Check to see above listed components are included.
  - 2 Mark ceiling for eyebolt locations approximately 46" apart (varies depending on fixture type). (See Fig. 1)
  - **3** Screw eyebolts (self supplied) into marked locations. (See Fig. 2)
  - 4 Insert adjustable wire hanger through each eyebolt. (See Fig. 3)
  - 5 Hook Universal V Hanger through mounting tabs on each end of fixture. (See Fig. 4 & Fig. 5)
  - 6 Clip Universal V Hangers into the adjustable wire clips on each end. (See Fig. 6 & Fig. 7)
    NOTE: Make sure V Hanger can not be unhooked from clip on adjustable wire hanger.
  - 7 Check to make sure fixture is level and secure. Make electrical connections from fixture to the power supply per NEC and local codes.
  - 8 Restore power and test fixture.



Orion supplied hanging devices are NOT warranted or recommended for use in environments: 1). that have corrosive agents present that may degrade the integrity of the hanging device. 2). where movement of the fixture may occur while the hanging device is supporting the fixture.

For additional hanging and mounting options for our industrial product line, please see our Industrial Hanging Application Guide available on most product pages.



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# Installation Instructions

## High Bay with -ECAB Cables

Instruction Number: P-INT-X-424

Product Series: Open and Enclosed High Bay Fixtures with Hanging Tabs Use this instruction to install a fixture with -ECAB hangers.

#### Components

1 (2) ECAB Mounting Cables (Y Style with eyelets and snap hooks attached)

#### Tools Required for Installation

- -Cordless Drill
- -Eyebolt (or other enclosed support for -ECAB hanger)
- -Tape Measure

#### Step-by-Step Instructions



#### WARNING!

Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing.

- 1. Field installers are responsible for recognizing specific site requirements and making adjustments to assure a complete, functional installation.
- 2. Make all power connections using UL listed components.
- 3. Electrical connections must be made by a qualified electrician and in accordance with NEC and local codes.
  - 1 Remove fixture from packaging. Check to see if above listed components are included.
  - 2 Measure the length of the fixtures hanging tabs to the other end of the fixtures hanging tabs, and mark the installation surface on each end of tape measure. (See Fig.1)
  - **3** Screw eyebolt (self supplied) into marked section on install surface. Repeat for other eyebolt on opposite mark. (See Fig.2)
  - 4 Attach snap hooks (circled in red) to hanging tabs on one end of fixture. Repeat on opposite end of fixture with other ECAB hanging cable. (See Fig.3)
  - 5 Insert third snap hook on each ECAB hanging cable through eyebolt (circled in green); level fixture as needed. (See Fig.4 & Fig.5)
  - 6 Once fixture is level; connect power from fixture to power supply per NEC and local codes. (See Fig.6)















Instruction Number: P-INT-X-458

Use this instruction to pendant mount the 2' and 4' HHSL or HHSL HE.

#### Components

-Harris High Bay Star Line Fixture -LED-HHSL-PMR01-KIT (See Image A. Includes: Conduit Connector, (4) screws, pendant mount bracket, whip, (6) wago connectors)

#### Tools Required for Installation

-#2 Philips Screwdriver or Drill -Wire cutters/strippers



#### WARNING!

Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing.

#### Step-by-Step Instructions

- 1 Unpack all components listed above.
- 2 Fasten the conduit fitting to the pedant mount bracket in the pre-punched hole (See Fig. 1 and Fig. 2 for completed installation)
- 3 Thread the existing conduit/wires into the conduit fitting from Step #2 (See Fig. 2 and Fig. 3)
- **4** Insert the provided whip wires through the side hole on the pendant mount bracket. Then push the whip strain relief into the hole to secure the whip to the bracket. (See Fig. 4)
- **5** Make all electrical connections between the incoming power supply and the whip per NEC and local codes.
- Insert the pendant mount bracket over the driver channel and secure in place using the (4) provided screws (2 screws per side). (See Fig. 5)

Note: Make sure no wires are pinched and all are tucked beneath the bracket.

- 7 Make electrical connections between the fixture and the opposite end of the whip per NEC and local codes and push all wires through the opening in the fixture access plate. (See Fig. 6)
- 8 Push the whip strain relief into the access plate hole to secure whip to the fixture. (See Fig. 7)
- 9 Restore power and test fixture.



















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# Installation Instructions

# HARRIS LED High Bay Star Line

Instruction Number: P-INT-X-458.1

Use this instruction to add a wireguard to the HHSL/ HHSL HE fixture (4' fixture shown).

#### Components

-HARRIS High Bay Star Line Fixture -HARRIS Fixture Wireguard: **HHSL-WG01-KIT** or **HHSL-WG02-KIT** (Kit Components: ((1) fixture wireguard), (4) wireguard clips, 4 set screws, 4 flat washers) <u>OR</u> -HARRIS Fixture Wireguard with Sensor Wireguard:

**HHSL-WG03-KIT** or **HHSL-WG04-KIT** ((1) fixture wireguard, (1) sensor wireguard, (6) wireguard clips, 4 set screws, 6 flat washers)

#### Tools Required for Installation

-#2 Philips Screwdriver or Drill -Wire cutters/strippers

#### WARNING!

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Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing.

#### Step-by-Step Instructions

#### Fixture Wireguard Assembly

1 Set wireguard on a flat surface, center and place the HHSL1 fixture into the wireguard. (See Fig. 1 and Fig. 2)

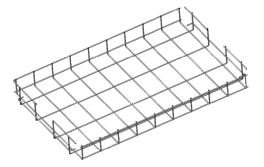
Note: Fixture should rest on support wire (circled).

- 2 Install wire clip over the end wire in the orientation show and position the clip within 3/16" of the vertical wire resting flat on the end panel of the HHSL (circled). (Complete this 4 times for all 4 wire clips) (See Fig. 3)
- **3** Fasten clip with flat washer and sheet metal screw. (Complete this 4 times with all 4 washers and screws) (See Fig. 4)

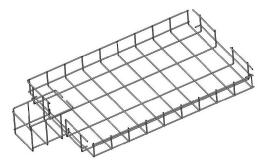
**Note:** Sheet metal screw will self drill, but predrilling a 1/8" pilot hole eases installation.

#### Fixture Wireguard with Sensor Wireguard Assembly

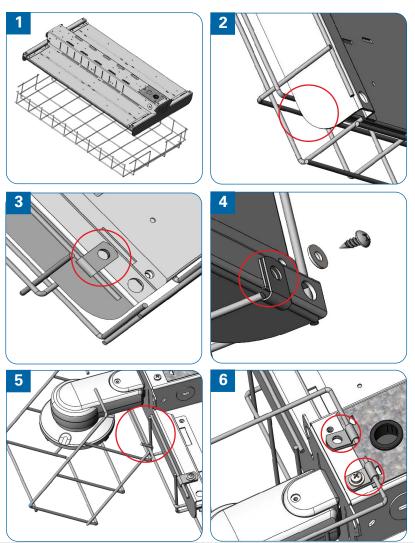
- 4 Hook the bottom of the sensor wireguard under the support wire of the main guard. The hook will be in between the support wire and HHSL panel and will be positioned to the outside of the nearest vertical wire of the main wireguard. (See Fig. 5)
- **5** Remove both driver channel screws on the end of the fixture with the sensor.
- 6 Slide one wire clip on the end of the sensor wireguard in orientation shown. Repeat for the other side of the sensor wire guard. Align the wire clips over the driver channel holes, insert washer over the clip and secure sensor wireguard in place with removed screws. (See Fig. 6)

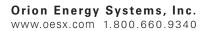


HHSL-WG02-KIT Shown



HHSL-WG04-KIT Shown







Instruction Number: P-INT-X-458.2

Use this instruction to add external battery back-up to the HHSL/HHSL HE (2' shown in photos).

#### Components

-Harris High Bay Star Line Fixture -HHSL-UNV-BBxxKIT (See Image A. Includes: Battery Back-Up Channel, (4) push-in/lever connectors, quick disconnect, screws)

#### Tools Required for Installation

-#2 Philips Screwdriver or Drill



WARNING!

Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing. Step-by-Step Instructions

Field installers are responsible for recognizing specific site requirements and making adjustments to assure complete, functional installation.

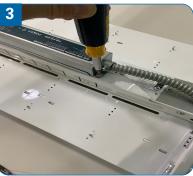
#### Elecrical connections must be made qualified electrician and in accordance with NEC and local codes.

- 1 Unpack all components listed above.
- 2 Remove the knockouts in the driver cover under the fixture wiring access plate on both sides (See Fig. 1).
- 3 Install battery backup mounting plate with two of the supplied screws (See Fig. 2).
- 4 Attach battery backup to the mounting plate with two of the supplied screws. 1/2" test switch hole should line up with the removed knockout (See Fig. 3).
- 5 Remove the driver cover (four screws) and install the conduit and test switch (See Fig 4).
- 6 Make electrical connections between the fixture and supplied battery backup (See following pages 3-7 for wiring diagrams).
- 7 Re-attach the driver cover removed in Step 5. Ensure that no wires are pinched during the installation of the cover (See Fig. 5).















Instruction Number: P-INT-X-458.2

Use this instruction to add battery back-up to the HHSL/HHSL HE (2' shown in photos).

#### Components

-Harris High Bay Star Line Fixture -LSLH-XXX-BB-KIT (See Image B. Includes: Battery Back-Up Channel, (5) push-in connectors, quick disconnect, bushing,(2) wago connectors, 1 orange push-in connector)

Tools Required for Installation

-#2 Philips Screwdriver or Drill



#### WARNING!

Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing.

#### Step-by-Step Instructions

Field installers are responsible for recognizing specific site requirements and making adjustments to assure complete, functional installation.

Elecrical connections must be made qualified electrician and in accordance with NEC and local codes.

- 1 Unpack all components listed above.
- 2 Remove the (4) screws from the battery backup cover plate. (See Fig. 1a)
- 3 Insert bushing into the fixture cover plate located on the back of the driver channel. (See Fig. 2a area circled in red)
- 4 Remove the (4) screws from the fixture driver cover. (See Fig. 3a)
- Complete all electrical wiring between the fixture and battery back-up per NEC and local codes. Reattach the fixture driver channel cover removed in Step 4 (See Page 4, Page 5 and Page 6 for wiring diagrams)
- 6 Insert the battery back-up channel over the fixture driver channel and attach with the (4) screws that were removed in Step 2. (See Fig. 5a and Fig. 6a)









5a



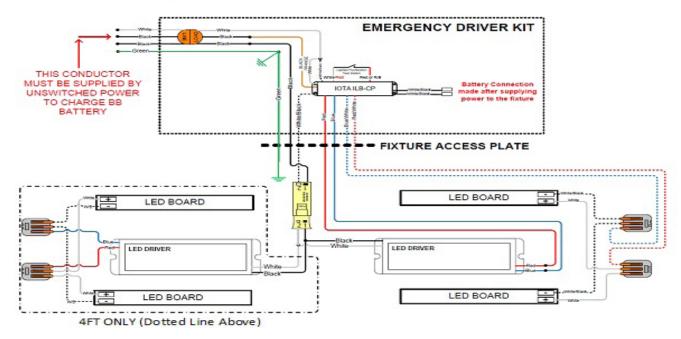




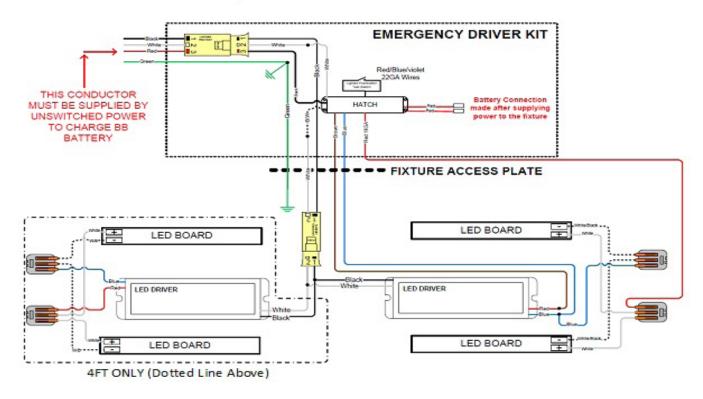


120-277v Wiring Diagram





# HATCH ELP 10/20

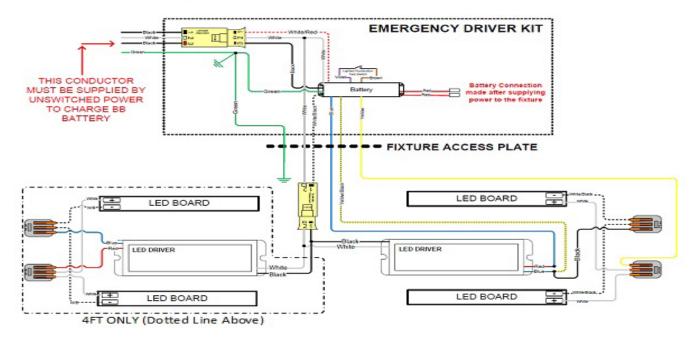


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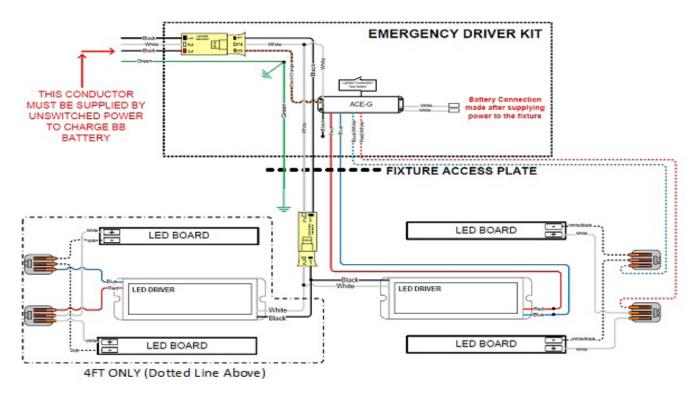


120-277v Wiring Diagram

## **BODINE PEL10**



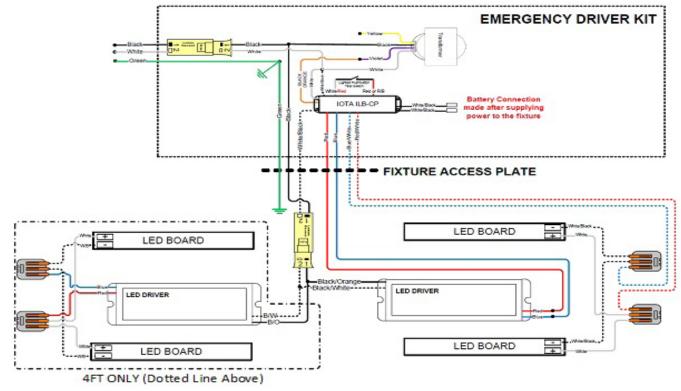
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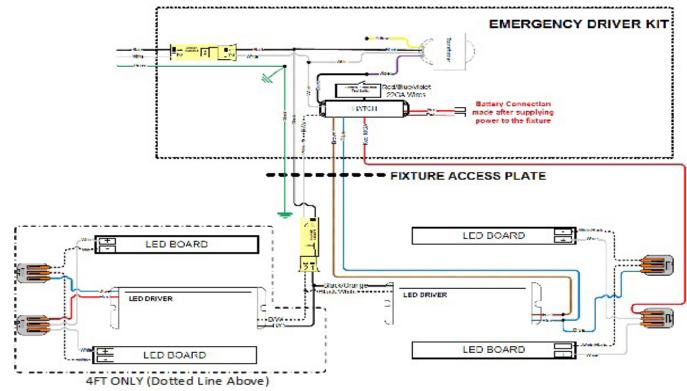


#### 347v Wiring Diagram

# IOTA ILB-CP10



# **HATCH ELP 10/20**



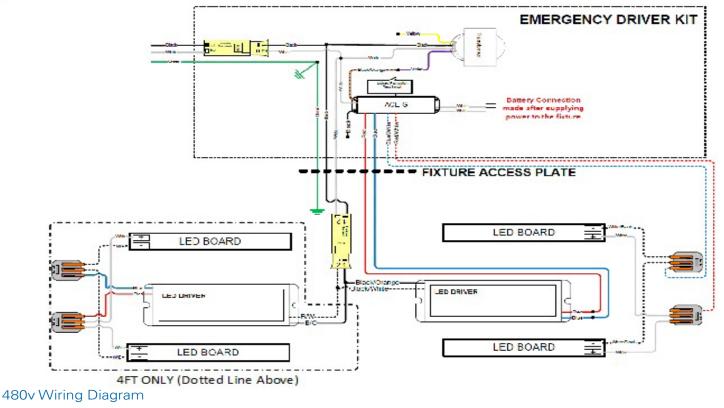
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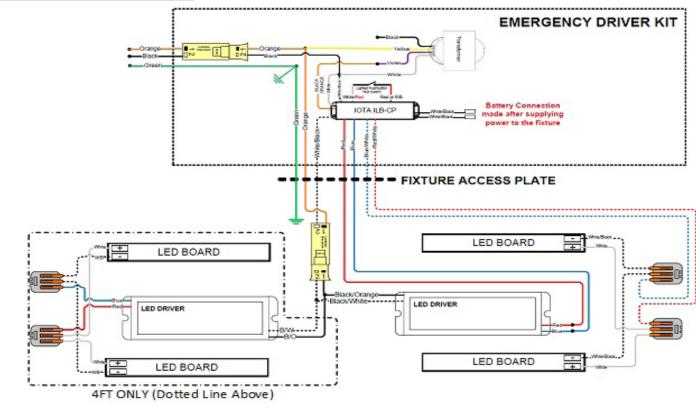


347v Wiring Diagram

# ACE-Gxx-1555CP



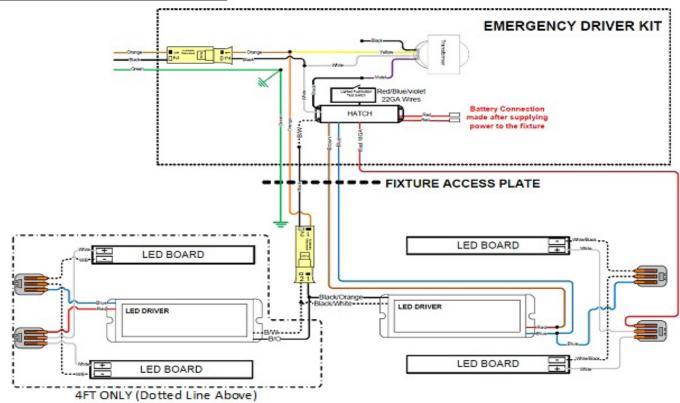
## **IOTA ILB-CP10**





#### 480v Wiring Diagram

# HATCH ELP 10/20



## ACE-Gxx-1555CP

