

INSTRUCTIONS

FIELD-ADJUSTABLE HIGH BAY INSTALLATION

RAB®

RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com



RBAY22S



RBAY22M



RBAY22L

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. 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 THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining the fixture. No user serviceable parts inside.

Suitable for Wet locations.

Suitable for operation in ambient not exceeding 50° C.

Min. 90° Supply Conductors.

CAUTION: RISK OF FIRE.

HOOK MOUNTING

1. Attach **Hooks** (*provided*) onto **Mounting Loops** on back of fixture housing. Assemble hanging hardware to the fixture using **Chains** (*provided*) as shown in Fig. 1.
2. Hang the **Fixture** to appropriate mounting surface as shown in Fig. 2 using appropriate ceiling attachment hardware (*by others*).
3. Make electrical connections. Refer to wiring diagram, Fig. 10. Use approved wiring connectors and appropriate wiring method and wire to local NEC codes.
WARNING: To prevent wiring damage or abrasion, do NOT pinch or expose wiring to sharp objects.

Fig: 1

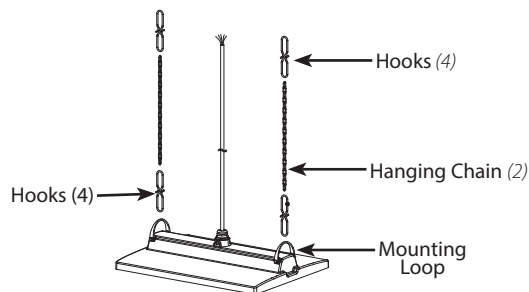
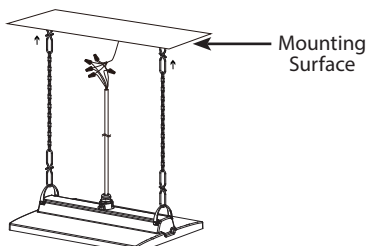


Fig: 2



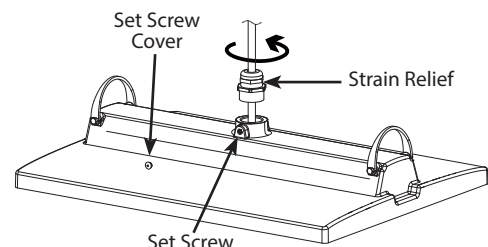
PENDANT MOUNTING KIT

Accessory ordered separately - Model # PMKRBAY22.

Use thread sealer for Pendant Mounting Kit upper and lower threads.

1. Remove fixture cord **Strain Relief** by removing **Set Screw Cover** and **Set Screw** (Fig. 3). Cut the **Power Cord** to approx 10 inches.
(CAP THE DIMMING WIRES INDIVIDUALLY IF NOT USING, REFER TO WIRING DIAGRAM, FIG. 10).
2. Open **Access Cover** in **Pendant Mounting Kit** and feed **Power Cord** into underside of **Pendant Mounting Kit** and thread onto fixture housing. Tighten **Set Screw** and re-install **Set Screw Cover**, Fig. 4.
3. Choose length of a 3/4" NPT **Pendant Stem** (*by others*).
4. Install **Pendant Stem** (*by others*) onto **Pendant Mounting Kit** and secure with **Set Screw** and replace **Set Screw Cover** as shown in Fig. 5 & 6. Pull supply wires into **Pendant Mounting Kit** and make connections per wiring diagram, Fig. 10 using UL listed wire connectors according to NEC and local codes.
5. Push all wires back into **Pendant Mounting Kit**. Be careful not to pinch wires.

Fig: 3



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Fig: 4

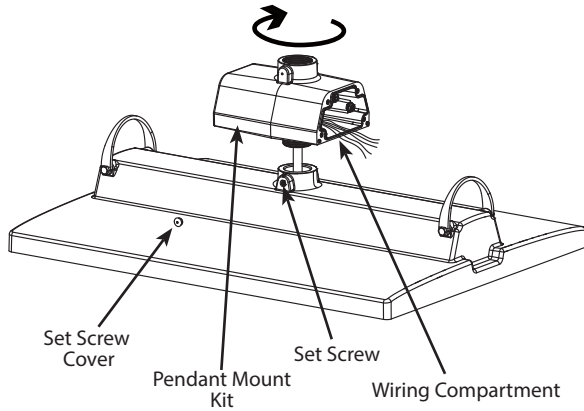


Fig: 5

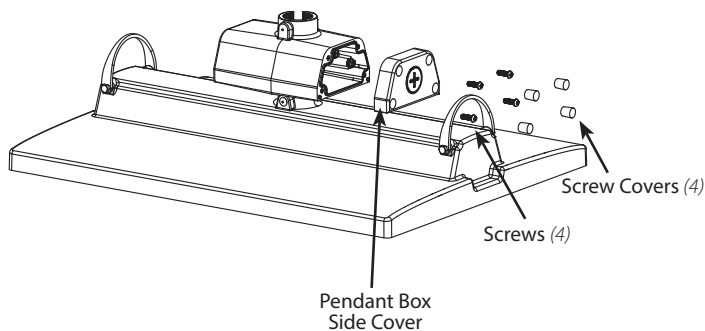
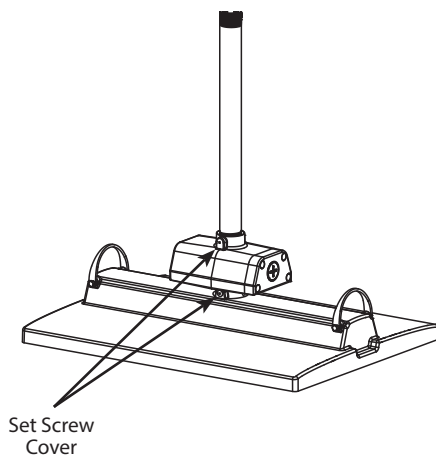


Fig: 6



FIELD-ADJUSTMENT

Follow instructions below to change **Fixture Beam Angle**, **Power (W)** and/or **Color Temperature (CCT)** from the factory settings.

Factory Settings:

RBAY22S:	160W / 4000K / 85°
RBAY22M:	260W / 4000K / 85°
RBAY22L:	320W / 4000K / 85°
RBAY22S/480:	160W / 4000K / 85°
RBAY22M/480:	260W / 4000K / 85°
RBAY212L/480:	320W / 4000K / 85°

1. Locate the **Field-Adjustable Switches** on Fixture housing as shown in Fig. 7. Remove waterproof **Gasket**.
2. Select **Fixture Beam Angle**, **Power (W)** and/or **Color Temperature (CCT)** by sliding the respective switch to the desired setting (Fig. 8).

Fig: 7

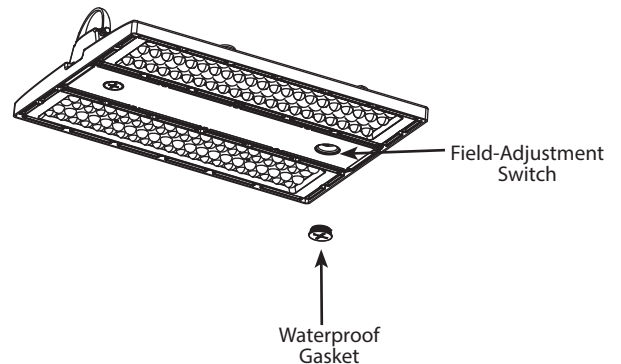
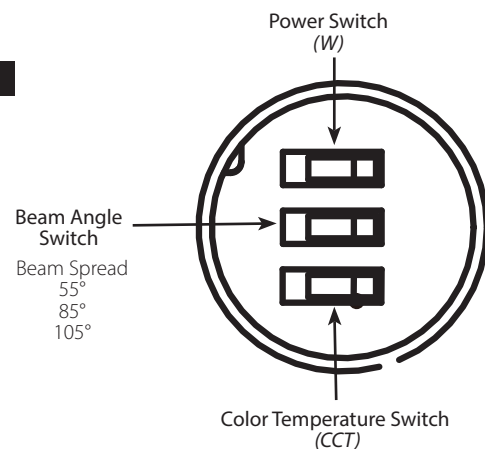


Fig: 8



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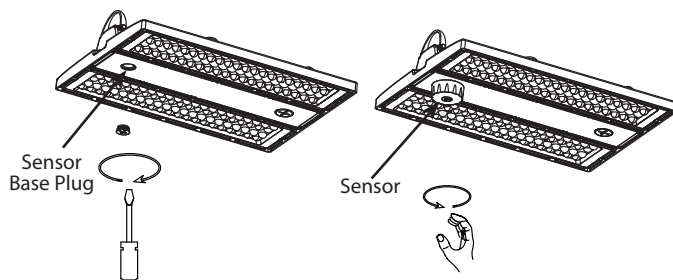
MOTION SENSOR INSTALLATION

Accessory ordered separately - Model # MVS50, PIR40
MVS50/LCB, PIR40/LCB.

Optional remote MSR1 sold separately for custom settings.

1. Ensure power is off to the fixture to avoid risk of shock.
2. Be sure to remove Sensor pin protector from the sensor before installing.
3. Remove **Sensor Base Plug** as shown in Fig. 9.
4. Insert **MVS** or **PIR** sensor into the **Sensor Base** and turn to secure as shown.
5. **Caution: Do NOT over-tighten Sensor.**

Fig. 9



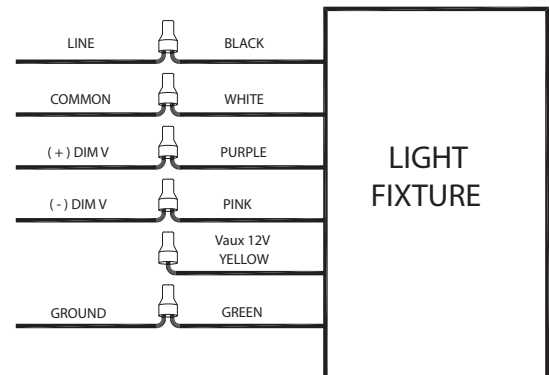
0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10V dimming follow the wiring directions as shown in Fig. 10. For units ordered with /480 suffix are 480V **ONLY**.

1. Connect the black fixture lead to the **LINE** supply lead.
2. Connect the white fixture lead to the **COMMON** supply lead.
3. Connect the **GROUND** wire from fixture to supply ground.
4. Connect the purple fixture lead to the (V+) DIM lead.
5. Connect the pink fixture lead to the (V-) DIM lead.
6. Cap the yellow fixture lead if present. Do NOT connect.

NOTE: Do not connect DIM V+ (purple)/ DIM V- (pink) to line voltage or supply ground.

Fig.10



TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Is the fixture grounded properly?

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.

CLEANING & MAINTENANCE

CAUTION: Be sure fixture temperature is cool enough to touch.
Do not clean or maintain while fixture is energized.

1. Lens should be washed with a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry.
WARNING: Polycarbonate is affected by cleaning agents or other liquids containing partial solvents such as low molecular weight aldehydes and ethers, ketones, esters, aromatic hydrocarbons and perchlorinated hydrocarbons. In addition, chemical attack ranging from partial to complete destruction of polycarbonate occurs in contact with alkalines, alkali salts, amines and high zone concentrations. Please go to rablighting.com for a detailed list of damaging chemicals.
2. Do not open fixture to clean the LED. Do not touch the LED.

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BATTERY BACKUP MODELS

WIRING

For Battery Backup accessory, see EMHB30, EMHB30/LCB, EMHB30/B, EMHB60, EMHB60/LCB, EMHB60/B instructions.

CAUTION: For Battery Backup Fixtures voltage can be present in BATTERY. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join BATTERY connector until installation is complete.

NOTE: Make sure that the necessary branch circuit wiring is available. An **UNSWITCHED** AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver.

1. Remove (4) **Driver Box Cover Screws** and hang the **EMHB Battery** on **Hooks** (by others), as shown in Fig. 11.
2. Open the **Driver Box Cover**, bring the wires through the **Waterproof Connectors** into the Backup Invertor (Fig. 12) connect all wires and make sure all connections are in accordance with the wiring diagram as shown in Fig. 14 & 15.
3. Secure **Driver Box Cover** to complete the installation, Fig. 13.

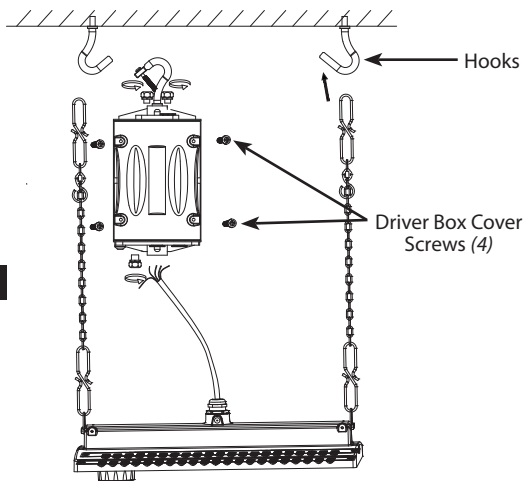


Fig. 11

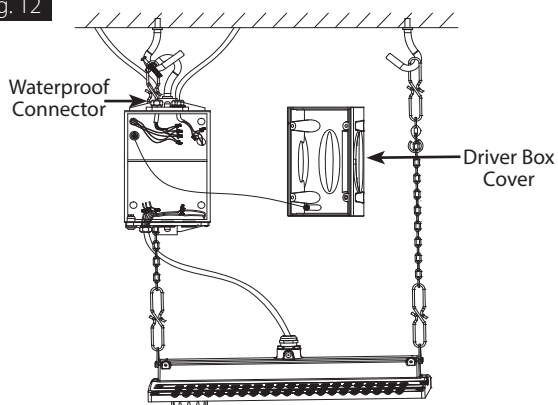


Fig. 12

Fig. 13

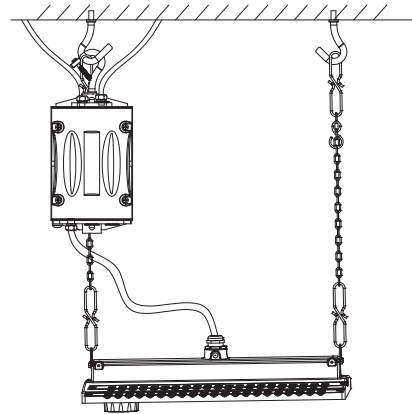


Fig. 14

120-277V WIRING DIAGRAM

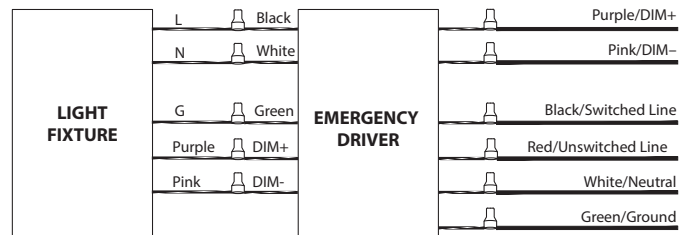
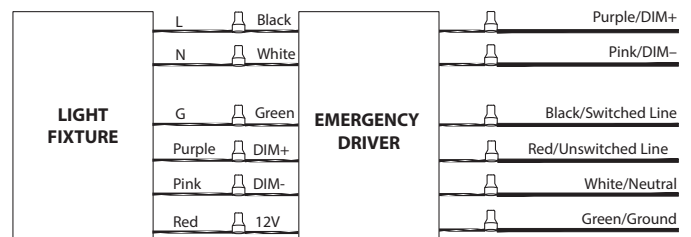


Fig. 15

277-480V WIRING DIAGRAM



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OPERATION

1. When AC power is applied, the charging indicator light is illuminated, indicating that the **BATTERY** is being charged.
2. When power fails, the standby power automatically switches to emergency power (*internal battery*), operating at reduced illumination. The emergency driver supplies standby power for a minimum of 90 minutes.
3. When AC power is restored, the emergency driver automatically returns to charging mode.

MAINTENANCE

Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
3. Conduct a 90-minute discharge test once a year. Fixture would operate at reduced illumination for a minimum of 90 minutes.

TROUBLESHOOTING

1. Is the fixture grounded properly?

Note: *These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.*



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P-101856

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