INSTRUCTIONS

FIELD-ADJUSTABLE T34® HE PANEL 2X2, 2X4 INSTALLATION

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

T34 FA HE 2X2



T34 FA HE 2X4

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 fixture. No user serviceable parts inside.

SAFETY INSTRUCTIONS

WARNING: Risk of fire or electric shock. Suitable for damp locations.

WARNING: Suitable for 9/16" or 15/16" Flat Tee-Grid in both insulated ceilings and non-insulated ceilings. Access above ceiling required.

WARNING: Do not handle energized fixture when hands are wet, when standing on wet or damp surfaces, or in water.

WARNING: Vapor barrier must be suitable for 90° C.

WARNING: Fixture to be independently supported to building structure.

RECESSED CEILING MOUNTING

The fixture is suitable only for INDOOR RECESSED CEILING application. Above ceiling access required.

To mount in an insulated or non-insulated ceiling - 9/16" or 15/16" exposed Flat Tee Grid Ceiling follow the steps below.

1. Firmly bend the pre-installed **Grid Clips** *(4)* up and out as shown in Fig. 1.
2. Rotate and slide the **Fixture** as required to fit through the **Tee-Grid Bar** and place it as indicated by the directional arrow as shown in Fig. 2. Secure the **Fixture** to the **Tee-Grid Bar.**
3. **Support Wires** are required by installation codes. Support the **Fixture** to the building structure with **Support Wires** (*supplied by others*) through the **Grid Clip Hole** as shown in Fig. 3.
4. Make sure that the orientation of the **Splice Box** and **Access Plate** faces an accessible tile to make electrical splices.
5. Loosen **Access Plate Screw** and remove the **Access Plate**. Knock out appropriate **Conduit Knockouts** on the **Access Plate** to route input conduit. Use appropriate conduit connectors as required by code (*Fig. 4*).
6. Connect wires as shown in wiring diagram (*Fig 6*). Push all wires back into the **Splice Box**. Use appropriate UL-approved wire connectors as required by code to complete wiring. Be careful not to pinch wires. **WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**
7. Replace **Access Plate** and tighten **Access Plate Screw**.

Fig. 1

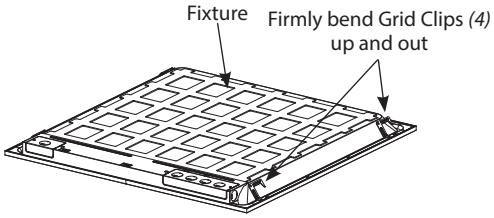


Fig. 2

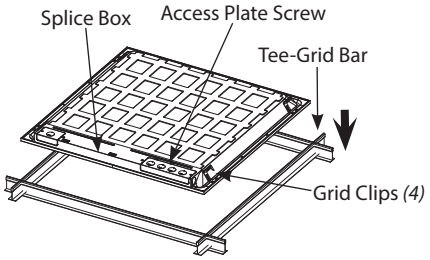


Fig. 3

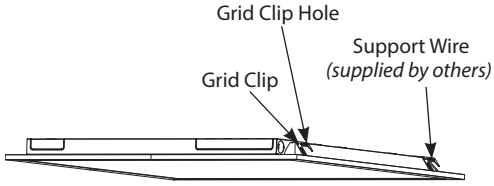
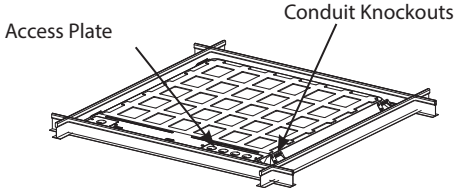


Fig. 4



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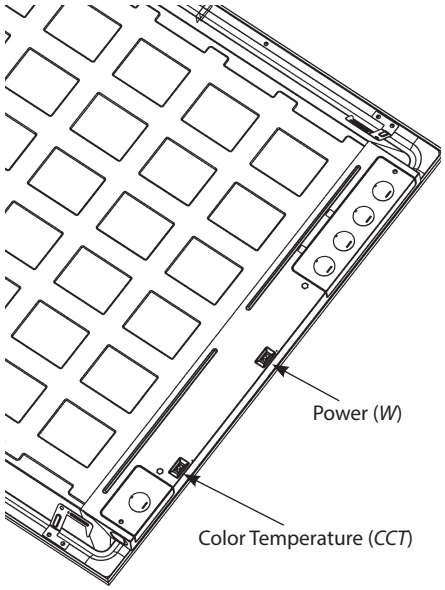
FIELD ADJUSTMENT

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

Factory Settings: 2X2 - 4000K / 40W

2X4 - 4000K / 50W

1. Locate the **Selector Switches** on the **Fixture** as shown in **Fig 5**.
2. Select **Color Temperature** (*CCT*) and/or **Power** (*W*) by sliding the respective switch to the desired value.



WIRING INSTRUCTIONS

Universal voltage driver permits operation at 120V through 277V.

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**.

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

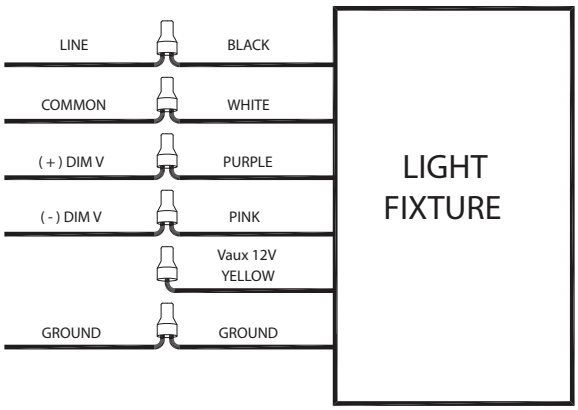


Fig. 6

CLEANING & MAINTENANCE

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

1. Clean frosted polystyrene lens & fixture with non-abrasive cleaning solution.
2. Do not open fixture to clean the LEDs. Do not touch the LEDs.

TROUBLESHOOTING

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

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BATTERY BACKUP MODELS

WIRING

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.
CAUTION: Do not use any supply voltage other than 120-277V 50/60 HZ.

Battery **Test Button** is provided with adhesive backing. Align the **Test Button** to edge of **Fixture Frame** closest to the lens for easy accessibility as shown in Fig. 8 & 9.

1. Connect **UNSWITCHED HOT** fixture lead to **HOT AC** supply line.
2. If using an **UNSWITCHED** circuit, connect **UNSWITCHED** and **SWITCHED** lines together.
3. If using a **SWITCHED** circuit, connect **SWITCHED HOT** AC fixture lead to the external.
4. For 0-10V Dimming connect **DIM** (+) purple and **DIM** (-) pink leads to 0-10V dimming connection.
5. All unused leads must be capped and insulated.
6. When power is on, the fixture should be on and the Charging Indicator Light should illuminate to indicate the battery is charging.
7. Once the BATTERY has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** *(Fig. 9)*.
8. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

FIG. 7

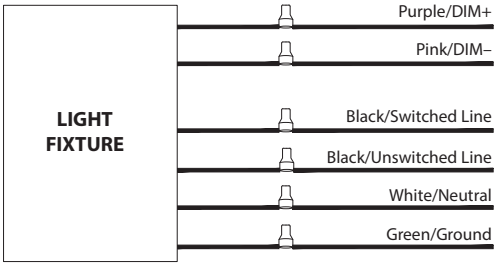


Fig. 8

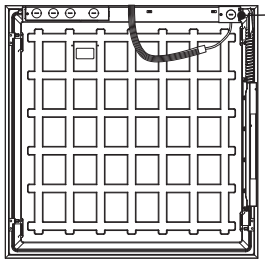
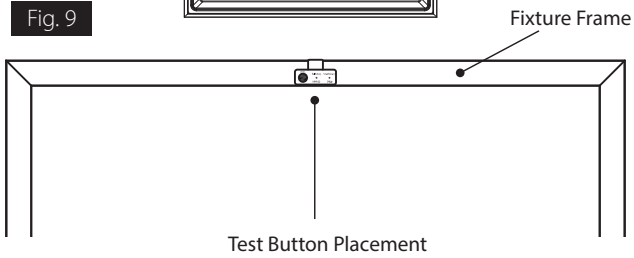


Fig. 9



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 will operate in 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?
2. If the charging indicator light does not illuminate after pressing the **Test Button**, check if battery is connected 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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Easy Answers

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