



INSTALLATION INSTRUCTIONS

VividHorse 120/230/277VAC CCT Selectable AC Engine Retrofit Kit
VJTUNV010LN9TWB05

SEE www.fulham.com/install FOR COMPLETE INSTALLATION INSTRUCTIONS

1.0 INSTALLATION WARNINGS

1. "WARNING – RISK OF FIRE OR ELECTRIC SHOCK. 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."
2. "WARNING - Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings."
3. "WARNING – Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire."
4. "WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects."
5. "WARNING - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components."
6. "THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY THE AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS."
7. Only those open holes indicated in these instructions may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

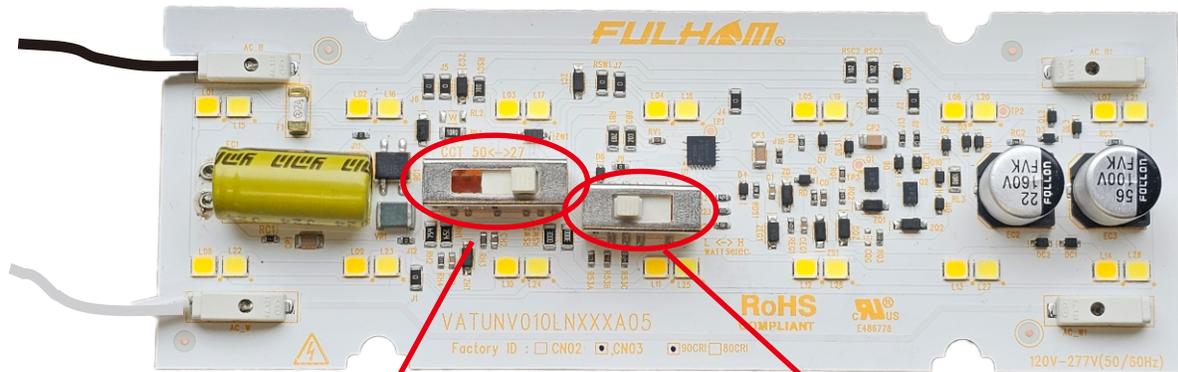
1.0 AVERTISSEMENTS D'INSTALLATION

1. AVERTISSEMENT - Risque d'incendie ou de choc électrique. CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS.
2. AVERTISSEMENT - Risque d'incendie ou de choc électrique. N'installer ce nécessaire que dans les luminaires dont les caractéristiques de construction et les dimensions sont conforme à celles illustrées dans les photos et/ou les dessins et dont la puissance d'entrée nominale du nécessaire de modernisation ne dépasse pas celle du luminaire.
3. AVERTISSEMENT - Risque d'incendie ou de choc électrique. Il peut être nécessaire de déterminer la cote d'entrée en fonction de toute configuration autorisée par les instructions d'installation. Quelle que soit la configuration du kit de modification, la cote d'entrée de l'ensemble du kit de modification ne doit pas dépasser la cote d'entrée marquée du luminaire hôte.
4. AVERTISSEMENT - Afin de prévenir l'endommagement ou l'abrasion des câbles, éviter tout contact entre ces derniers et le bord d'un objet tranchant tel qu'une tôle.
5. AVERTISSEMENT - Risk d'incendie ou de choc électrique. Le câblage du luminaire et les pièces électriques peuvent être endommagés lors du forage pour l'installation d'un kit de reconditionnement LED. Vérifiez le câblage et les composants inclus.
6. LE NÉCESSAIRE DE MODERNISATION EST ACCEPTÉ À TITRE DE COMPOSANT D'UN LUMINAIRE LORSQUE LA PERTINENCE DE LA COMBINAISON DOIT ÊTRE DÉTERMINÉE PAR LES AUTORITÉS COMPÉTENTES. LES PRODUITS DOIVENT ÊTRE INSTALLÉS PAR UN ÉLECTRICIEN QUALIFIÉ CONFORMÉMENT AUX CODES ÉLECTRIQUES APPLICABLES ET APPROPRIÉS. LES LIGNES DIRECTRICES D'INSTALLATION NE REMPLACENT PAS LES RÈGLEMENTS LOCAUX OU NATIONAUX SUR L'INSTALLATION ÉLECTRIQUE.
7. Seules les ouvertures indiquées sur les photos et / ou les dessins peuvent être faites ou modifiées à la suite de l'installation du kit. Ne laissez aucune autre ouverture sur le câblage ou le boîtier des composants électriques.

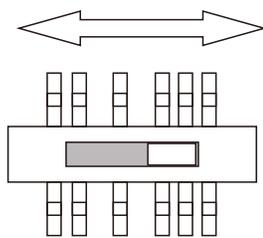
2.0 CCT SELECTION INDICATION

Power & CCT Selection Indication

1. The VividHorse DirectAC Engine Retrofit Kit is a dual-channel LED product that allows for Power & CCT selection via dip switches on the PCB. Available CCTs include 2700K, 3000K, 3500K, 4000K and 5000K.
2. A pre-set Power & CCT will come from the factory. Check the product label or packaging to see the pre-set level.
3. Change the Power dip switch for desired power level.
4. Change the CCT dip switch for desired CCT level.

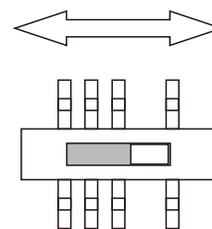


CCT Indication



5000K 4000K 3500K 3000K 2700K
Factory Default: 3000K

Power Indication

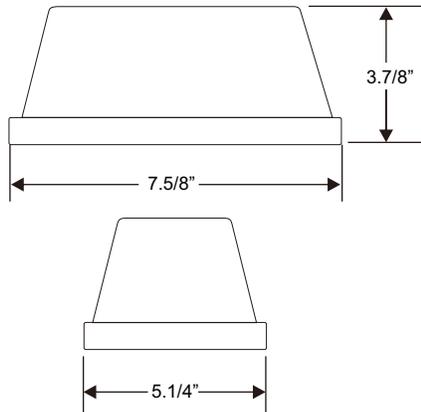


6W 8W 11W(Factory Default)

3.0 ORIGINAL LUMINAIRE DIMENSIONS

Original Luminaire
(RLR: V58)

Minimum Luminaire Dimensions



The retrofit Luminaire should be with original input power rating $\geq 6W@120VAC$ or $5W@230VAC$ or $6W@277VAC$ when for the lowest setting power.

The retrofit Luminaire should be with original input power rating $\geq 8W@120VAC$ or $7W@230VAC$ or $8W@277VAC$ when for the middle setting power.

The retrofit Luminaire should be with original input power rating $\geq 11W@120VAC$ or $9W@230VAC$ or $11W@277VAC$ when for the highest setting power.

- Remove all the original luminaire parts, lamp, lampholder and ballast (only for Fluorescent) in order to begin the retrofit.
- Original luminaire diffuser and original ground wire will need to be kept for this retrofit.
- This Kit can be retrofitted into any luminaire with a similar length/height width greater than or equal to the Minimum Luminaire Dimensions described above and volume greater or equal to 109.8 cubic inches.
- All target luminaires shall conclude a metal back plate at size 6.2" x 2.5" or larger with grounding means.
- Suitable for operation in luminaires with ambient not exceeding 50°C.
- SUITABLE FOR DAMP LOCATIONS.
- MIN 75°C SUPPLY CONDUCTORS.
- Suitable for closed type luminaires.
- Suitable for use with luminaires with maximum one lamps.

NOTE: Wire on dedicated lighting branch circuit. Do not wire on same branch circuit as motors, heating elements, inductive type loads or heavy machinery which may introduce spikes, noise and other abnormalities onto the Line. Doing so may result in damage to the unit or abnormal lighting conditions.

4.0 RETROFIT KIT COMPONENTS

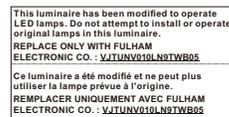
Retrofit kit components will be provided as listed below:



LED Engine



Mounting Hardware

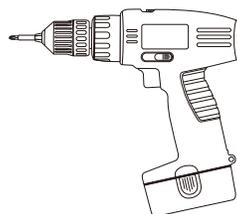


Retrofit Label



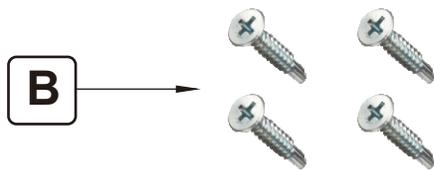
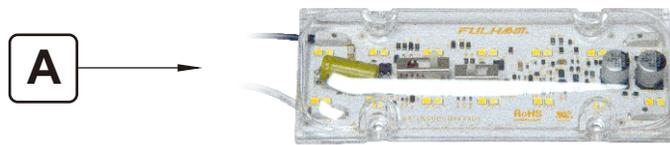
Input Connector

5.0 RECOMMENDED TOOLS (Not Included)



Power Drill W/ Phillips Bit

6.0 RETROFIT KIT DESCRIPTION



This luminaire has been modified to operate LED lamps. Do not attempt to install or operate original lamps in this luminaire.
REPLACE ONLY WITH FULHAM ELECTRONIC CO. : VJTUNV010LN9TWB05
 Ce luminaire a été modifié et ne peut plus utiliser la lampe prévue à l'origine.
REPLACER UNIQUEMENT AVEC FULHAM ELECTRONIC CO. : VJTUNV010LN9TWB05



ITEM	DESCRIPTION	QTY
A.	LED AC Engine	1
B.	6-20 X 5/8" Flat Head Self Drilling Screws	4
C.	Retrofit Label	1
D.	Input Connector (may vary from picture)	1

Note:

- Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.
- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- Prior to installation, review all environmental designation locations in the retrofit kit installation instructions. Only install in damp or wet locations if so indicated in the installation instructions.

7.0 RETROFIT KIT ASSEMBLY

1. Start by removing the Lens from the original luminaire. See Figure 1
2. Remove the original lamp, lampholder and ballast (only for Fluorescent) from the luminaire. Drill a Ø0.43" (Ø11mm) hole in the center of the luminaire for input wires to go through. The original luminaire ground wire will need to be kept for this retrofit. See Figure 2.
3. Route the input wires of LED Engine (A) into the wire hole of the luminaire back plate and place the LED Engine (A) onto the luminaire back plate as shown on Figure 3.

NOTE: LED Engine must make direct contact with the back plate when installed in order to provide sufficient heat sinking to properly manage thermals for safety and warranty purposes.

4. Secure the LED Engine to the luminaire mounting plate using the provided 6-20 x5/8" Self Drilling Screws (B). See Figure 4.

NOTE: All screws provided must be used to ensure good thermal contact to surface.

5. Place the provided Retrofit Label (C) on the luminaire back plate in a readily visible location to anyone attempting to service the luminaire. See Figure 5.

6. The luminaire is now ready to be installed. Please see below for instructions on connecting line voltage to the luminaire. Re-attach and secure the lens once installation is completed.

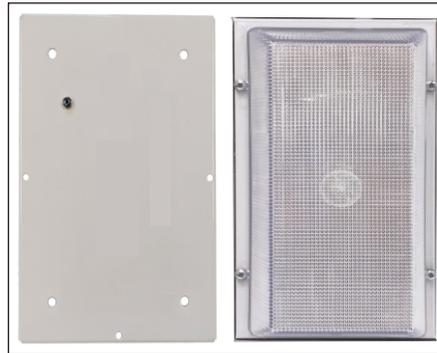


Figure 1

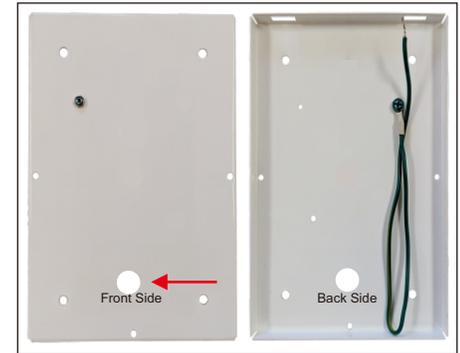


Figure 2

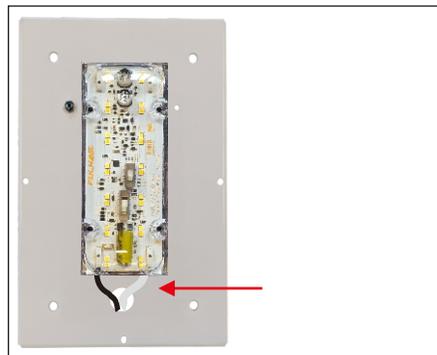


Figure 3

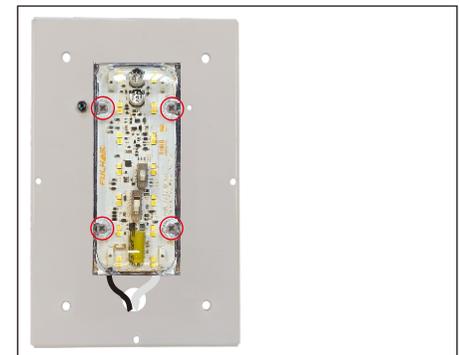


Figure 4

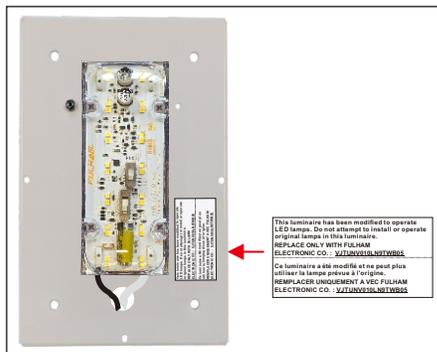


Figure 5

Note: For all models, live parts should not be accessible after installation.

Note: Make sure put the wiring splice enclosure in J-Box/outlet box, and the visible input wires in target luminaire are no more than 75mm.

Connecting Power to the Retrofit Kit:

- 1) Connect the green wire (Ground) from the luminaire to the Ground that is being fed by the power source. Connect these two wires by using a wire connector with a minimum 18AWG rating.
- 2) Connect the white wire (Neutral) from the DirectAC Engine to the Neutral being fed by the power source. Connect these two wires by using a wire connector with a minimum 18AWG rating.
- 3) Connect the Black wire (Line) from DirectAC Engine to the Line being fed by the power source. Connect these two wires by using a wire connector with a minimum 18AWG rating.

8.0 WARRANTY

- Please refer to AC Engine kit spec sheet for warranty information.