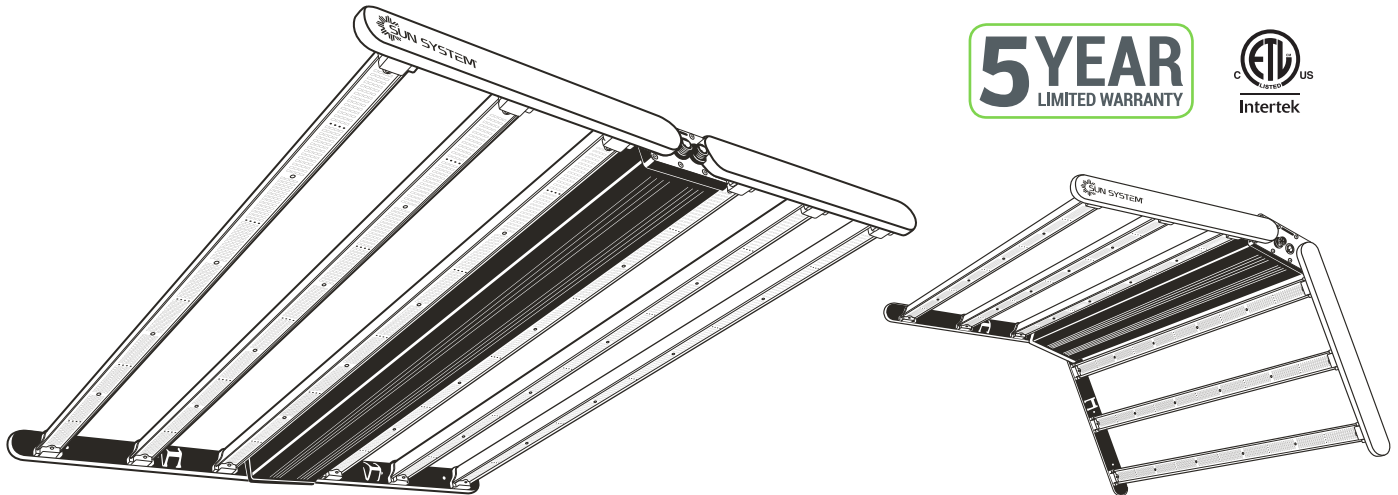




SUN SYSTEM® RS 1850 LED

6 RAIL, FOLDABLE LED FIXTURE - 120-277 Volt

5 YEAR
LIMITED WARRANTY



INSTALLATION AND OPERATING INSTRUCTIONS

1. INTRODUCTION:

The Sun System Rail System (RS) 1850 LED is a 6 rail, foldable LED producing 1850 $\mu\text{mol/s}$ with an efficiency of 2.5 $\mu\text{mol/j}$. This fixture is DLC listed, IP65 wet-rated and comes complete with a manual digital dimming button and an internal embedded smart controller that is compatible with the Gavita® e-Series Controller. Together, these features give you the ability to control up to 500 fixtures (e-Series Controller required, sold separately). The Sun System RS 1850 utilizes top-bin Sun System-brand diodes to produce a full-spectrum light source. The RS 1850 operates at 120-277 volt. The power cord is sold separately. 5 year limited warranty.

1.1 ACCESSORIES (SOLD SEPARATELY):

- HGC906147/Gavita 8 ft Power Cord 120 Volt for LED
- HGC906148/Gavita 8 ft Power Cord 240 Volt for LED
- HGC906458/Gavita 8 ft Power Cord 277-400 Volt for Gavita LED
- HGC906120/Gavita Master Controller EL1 - Gen 2
- HGC906121/Gavita Master Controller EL2 - Gen 2

USED SYMBOLS:

 **Warning!** A warning indicates severe damage to the user and/or product may occur when a procedure is not carried out as described.

 **Caution!** A caution sign indicates problems may occur if a procedure is not carried out as described. It may also serve as a reminder to the user.

 **Note:** A note gives additional information, e.g. for a procedure.



This symbol is an internationally recognized symbol used to designate recyclable materials.



This symbol is an authorization mark employed on electronic products manufactured or sold in the United States, which demonstrates that the electromagnetic emissions from the device is under limits approved by the Federal Communications Commission.



This symbol shows that a product has been independently tested and certified to meet recognized standards of safety.



This symbol on material, accessories or packaging indicates that this product may not be discarded as household waste. By properly disposing of the equipment, you will be helping to prevent possible risks to the environment and public health, which might otherwise be caused by improper handling of the discarded equipment. Recycling of materials contributes to the conservation of natural resources. Therefore, please do not dispose of old electronics and electrical appliances via household waste.



This symbol indicates the minimum distance (B) between the LED fixture (A) and the lit surface.

2. PRODUCT DESCRIPTION:

The Sun System® RS 1850 LED is an electronic horticultural LED fixture. It drives six LED rails. The Sun System RS 1850 LED is intended to be used in greenhouses or in climate rooms. In this manual, the Sun System RS 1850 LED will be referred to as: "the LED fixture".

3. PRODUCT INFORMATION AND SPECIFICATIONS:

INPUT VOLTAGE :	120 - 277 V
INPUT POWER:	720 W
INPUT CURRENT :	2.62 A @ 277 V 6.2 A @ 120 V
HEAT LOAD :	2,450 btu/hr
FREQUENCY :	50/60 Hz
POWER FACTOR :	> 0.95
AMBIENT TEMP :	131° F / 55° C
ENVIRONMENT RATING :	IP65
MOUNTING :	Hanger and safety wire
WEIGHT :	24.45 lb (12 kg)
DIMENSIONS :	1100 mm x 1000 mm 70 mm
CERTIFICATIONS :	UL 1598, ANSI/CAN/UL 8800, and CSA C22.2 No. 250.0
WARRANTY :	5 year limited warranty

3.1 ENVIRONMENT:

The product is intended to be used in greenhouses and climate rooms. The product can be used in wet environments. The product may not be used outdoors. A mechanical ventilation or cooling system is required to maintain the temperature within the growing space below 131° F / 55° C when the Sun System RS 1850 LED is in operation.

LEGAL:

This device complies with Part 15 of the FCC Rules, designated as Class A. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This device has been designed to comply with the rules of the Federal Communications Commission. Changes or modifications not expressly approved could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Conforms to ANSI/UL STD 1598, ANSI/CAN/UL 8800, and CSA C22.2 No. 250.0

4. SAFETY RECOMMENDATIONS AND WARNINGS:

⚠ Warning! Carefully read the warnings below before using or working with the product!

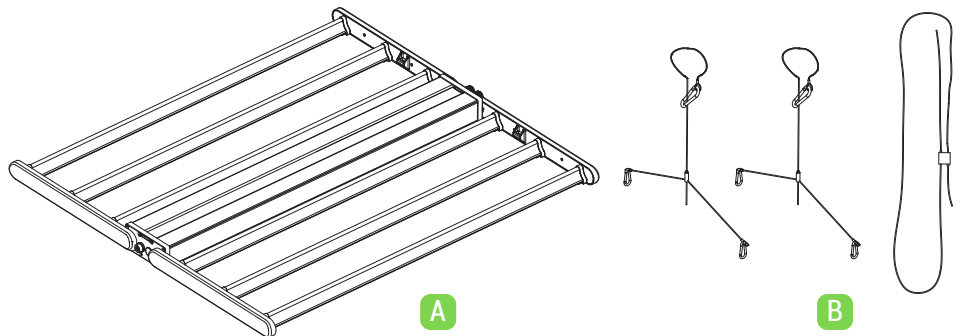
- Always adhere to local rules and regulations when installing or using the LED fixture.
- Do not open or disassemble the LED fixture; there are no serviceable parts inside. Opening or modifying the LED fixture can be dangerous and will void the warranty.
- This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.
- Do not use the LED fixture when either the LED fixture or its power cord are damaged. Replace the power cord only with original, certified cords.
- Modifications to the cords can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.
- Do not expose the LED fixture to:
 - (ambient) temperatures outside the specified range;
 - dust and contamination;
 - direct sunlight during use or HID light that could heat up the fixture.
- Always disconnect the LED fixture from mains before performing any maintenance.
- Always allow for a cool-down period of at least 30 minutes before touching the LED. Touching the LED when the fixture is lit or immediately afterward can result in severe burns!
- Do not use the LED fixture near flammable, explosive or reactive substances. Do not use sulfur vaporizers.
- The installation and use of the LED fixture is the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the LED fixture. Damage to the LED fixture and electronic circuitry as a result of incorrect installation and use voids the warranty.
- The minimum distance between adjacent lighting equipment is 4 inches (10.16 cm). The minimum distance between lighting equipment and combustible materials is 4 inches (10.16 cm).

RECOMMANDATIONS EN MATIÈRE DE SÉCURITÉ ET AVERTISSEMENTS :

- ⚠ AVERTISSEMENT!** Veuillez lire attentivement les avertissements ci-dessous avant de travailler avec le produit ou l'utiliser!
- Vous conformer en tout temps à la réglementation locale lors de l'installation ou de l'utilisation du dispositif à DEL.
 - Ne pas ouvrir ou démonter le dispositif à DEL; aucune pièce n'est réparable à l'intérieur. Ouvrir ou modifier le dispositif à DEL peut être dangereux et entraînera l'annulation de la garantie.
 - Ce produit peut causer des interférences avec l'équipement radio et il ne doit pas être installé près d'équipement de communication de sécurité maritime ou d'autres équipements de navigation essentiel ou de communication fonctionnant entre 0,45 et 30 MHz.
 - Ne pas utiliser le dispositif à DEL lorsqu'il est endommagé ou que son cordon d'alimentation est endommagé. Remplacez le cordon d'alimentation uniquement avec un cordon original et certifié.
 - Des modifications aux cordons peuvent entraîner des effets électromagnétiques non désirés rendant le produit non conforme aux exigences légales.
 - Ne pas exposer le dispositif à DEL :
 - aux températures (ambiantes) au-delà de la plage spécifiée;
 - à la poussière et à la contamination;
 - à la lumière directe du soleil pendant l'utilisation ou à la lumière à DHI qui pourrait faire chauffer le dispositif.
 - Toujours débrancher le dispositif à DEL du conducteur principal avant d'effectuer tout entretien.
 - Toujours prévoir une période de refroidissement d'au moins 30 minutes avant de toucher le dispositif à DEL. Toucher le dispositif à DEL lorsqu'il est allumé ou immédiatement après l'avoir éteint peut entraîner des brûlures graves!
 - Ne pas utiliser le dispositif à DEL près de substances inflammables, explosives ou réactives. Ne pas utiliser de pulvérisateurs de soufre.
 - L'installation et l'utilisation du dispositif à DEL sont la responsabilité de l'utilisateur final. Une mauvaise utilisation ou installation peut entraîner une défaillance et endommager le dispositif à DEL. Des dommages au dispositif à DEL et aux circuits électroniques résultant d'une mauvaise installation et utilisation annulent la garantie.
 - La distance minimum d'équipement d'éclairage adjacent doit être de 30,5 cm (12 po). La distance à maintenir entre l'équipement d'éclairage et les matières combustibles est de 30,5 cm (12 po).

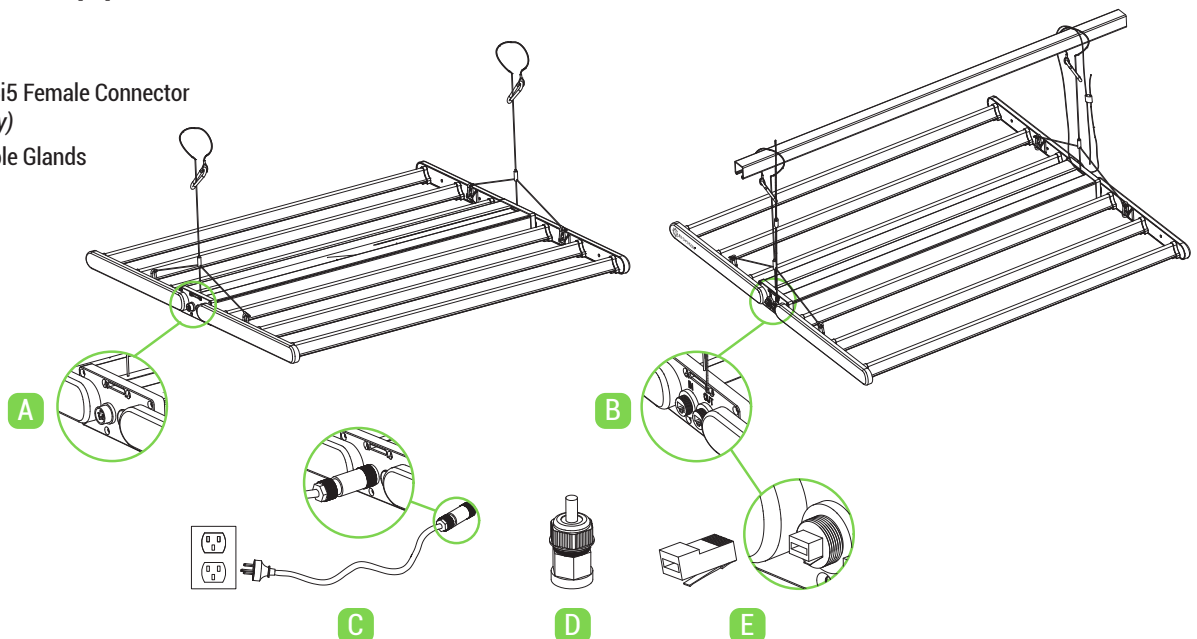
5. CONTENTS

- A. Sun System RS 1850 LED
- B. 3-Point Mounting Safety Wire [x2]
(Power cord sold separately.)



6. CONTROLS, CONNECTIONS AND INDICATIONS

- A. Wieland RST16i5 Male Connector
- B. Gavita RJ45 Connector [x2]
 - a. RJ IN
 - b. RJ OUT
- C. Wieland RST16i5 Female Connector
(sold separately)
- D. Assembled Cable Glands
- E. Dummy Plug



7. INSTALLATION:

- ⚠ **Warning!** Mounting and installation of the LED fixture may only be executed by certified service personnel, in accordance with the applicable local laws and regulations!
- ⚠ **Warning!** The installer is responsible for correct and safe installation.
- ⚠ **Warning!** Ensure the local cabling can support the voltage and current requirements of the LED fixture.
- ⚠ **Warning!** Avoid coiled cords and keep mains leads separated. This prevents electromagnetic interference.
- ⚠ **Warning!** Do not connect or disconnect the LED fixture under load.
- ⚠ **CAUTION - PROPRIETARY WIRING SYSTEM** Use Hawthorne cord set model (HGC906147/Gavita 8 ft Power Cord 120 Volt for LED, HGC906148/Gavita 8 ft Power Cord 240 Volt for LED, HGC906458/Gavita 8 ft Power Cord 277-400 Volt for Gavita LED) only for connection from the luminaire power inlet to a standard junction box for power connection.

INSTALLATION :

- ⚠ **Avertissement!** Le montage et l'installation du dispositif à DEL ne peuvent être effectués que par un personnel de service certifié conformément aux lois et règlements locaux.
- ⚠ **Avertissement!** L'installateur est responsable d'une installation adéquate et sécuritaire.
- ⚠ **Avertissement!** Assurez-vous que le câblage local peut soutenir la tension et les exigences actuelles du dispositif à DEL.
- ⚠ **Avertissement!** Évitez que les cordons ne s'enroulent et gardez les câbles conducteurs principaux séparés. Cela permet de prévenir les interférences électromagnétiques.
- ⚠ **Avertissement!** Ne pas brancher ou débrancher le dispositif à DEL sous tension.
- ⚠ **ATTENTION - SYSTÈME DE CÂBLAGE PROPRIÉTAIRE** Utilisez le jeu de cordons Hawthorne modèle (HGC906147/Gavita 8 ft Power Cord 120 Volt for LED, HGC906148/Gavita 8 ft Power Cord 240 Volt for LED, HGC906458/Gavita 8 ft Power Cord 277-400 Volt for Gavita LED) uniquement pour la connexion de l'entrée d'alimentation du luminaire à une boîte de jonction standard pour la connexion électrique.

7.1 INSTALLING THE LED FIXTURE:

- ⚠ **Warning!** Mount the system to something that can hold the weight of the LED fixture.
 - Switch off mains power.
 - Install the 3-Point Mounting Safety Wire to the mounting points on the LED (fig. 1).
 - Distribute the fixture weight evenly so the fixture hangs level (fig. 2).
 - If an external controller is not utilized, make sure the dummy plug is inserted; otherwise, the fixture will operate in manual mode. i.e, the operator will need to power on the fixture with the indicator button (fig. 3).

INSTALLATION DU DISPOSITIF À DEL :

- ⚠ **Avertissement!** Fixez le système à une structure en mesure de soutenir le poids du dispositif à DEL.
 - Débranchez le courant du conducteur principal.
 - Installez le fil de sécurité de montage à trois points de fixation aux points d'attache du dispositif à DEL (fig. 1).
 - Répartissez le poids du dispositif uniformément de façon à ce qu'il soit suspendu au niveau (fig. 2).
 - Si un contrôleur externe n'est pas utilisé, assurez-vous d'insérer la fiche sans résistance de charge; sinon le dispositif fonctionnera en mode manuel. C'est-à-dire que l'opérateur devra mettre le dispositif sous tension à l'aide du bouton indicateur (fig. 3).

7.2 MAKE SURE POWER CORDS:

1. Are **not** concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
2. Are **not** located above a suspended ceiling or dropped ceiling.
3. Are **not** permanently affixed to the building structure.
4. Are routed so that they are not subject to strain and are protected from physical damage.
5. Are visible over their entire length.
6. Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

fig.1

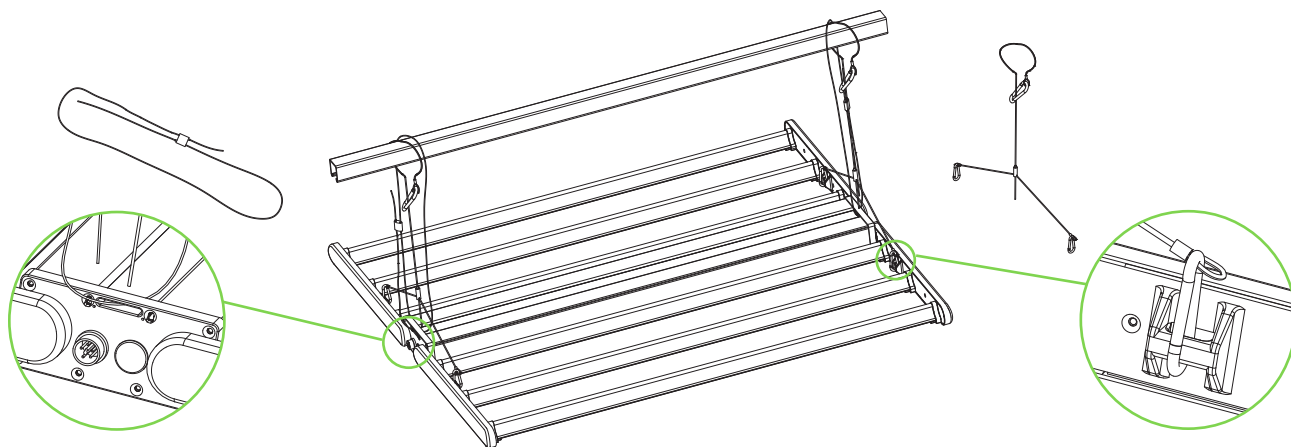


fig.2

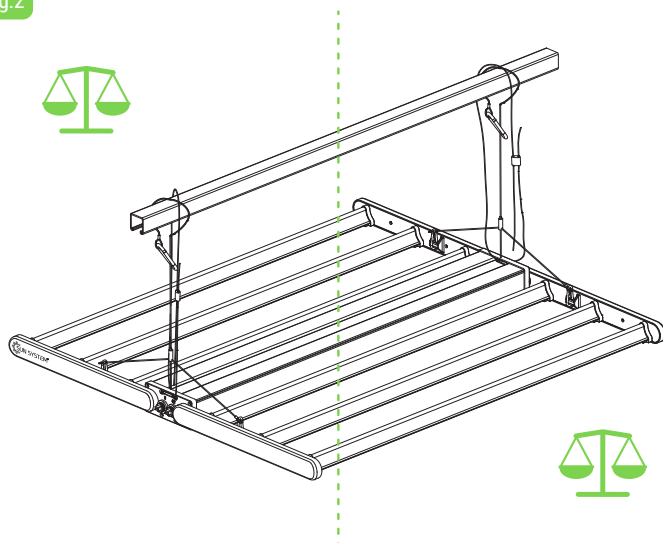
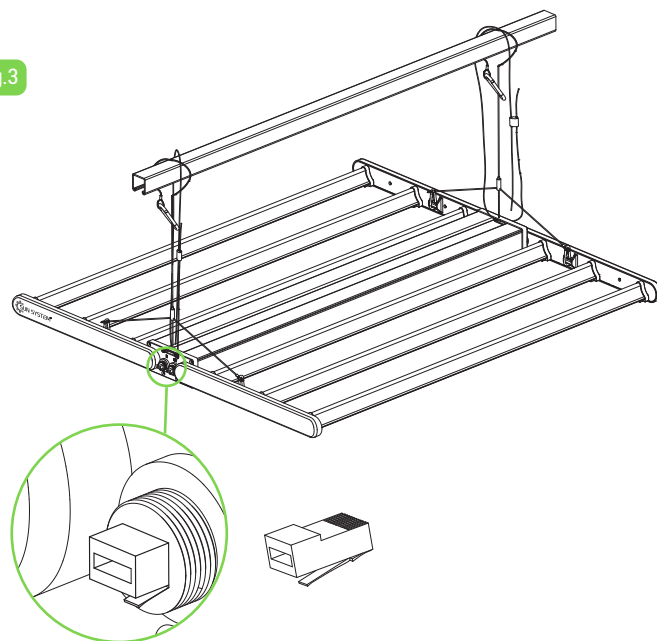


fig.3



PHOTOBIOLOGICAL SAFETY

Photobiological Safety Assessment: Risk Group 2

⚠ **CAUTION:** Possible hazardous optical radiation emitted from this product.

Évaluation de la Sécurité Photobiologique: Groupe de Risque 2

⚠ **ATTENTION :** Rayonnement optique potentiellement dangereux émis par ce produit.

These photobiological safety markings are based on testing of the light output characteristic of a single horticultural luminaire. Increased exposure risk to facility personnel may be present depending upon the number of horticulture luminaires and their placement and/or positioning within the plant growth facility.

It is the responsibility of the plant growth facility to address these risks at the facility level and to ensure that people entering the plant growth areas while the lights are on, are aware of the risks and that appropriate safeguards are in place.

8. CONTROLLING THE FIXTURE:

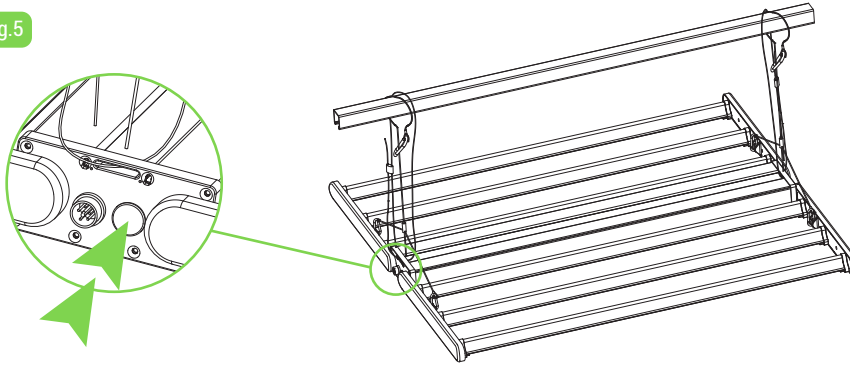
METHODS OF CONTROL:

LED FIXTURE CONTROL MODES:

8.1 MODE I: MANUAL MODE (*Digital Dimming Button Operated*)

1. **Scenario:** The LED has input voltage, but no input control signal, i.e., no external control source or dummy plug.
 - A. If the digital dimming knob is pressed and the LED fixture has power, the fixture will turn on at 100% and the button will be illuminated green.
 - B. Levels of Control: 100%, 75%, 50%, and OFF.
 - C. To turn off the fixture, the operator must press the digital dimming button until the unit turns off (fig. 5).

fig.5



8.2 MODE II: EXTERNAL CONTROL (*External Controller || Dummy Plug Operated*)

1. **Scenario:** External control signal or dummy plug is inserted in the RJ45 "IN" port (fig. 6).
 - A. External control signal or dummy plug overrides the digital dimming button. The external controller or dummy plug will have full control of the fixture.
 - B. The RJ45 "OUT" port is only activated when there is an external control signal or dummy plug connected to the RJ45 "IN" port.
 - C. If this mode is utilized, up to 1,000 fixtures can be operated if connected in series.
- ⚠ **Warning!** Do not insert an external control signal or dummy plug into the RJ45 "OUT" port. The LED fixture will not operate in this mode (fig. 7).
- ⚠ **Attention!** See section 9 to learn how to connect a Gavita Master Controller Gen 2 to the LED fixture.
- ⚠ **Avertissement!** Ne pas insérer un signal de commande externe ou la fiche sans résistance de charge dans le port « EXTERNE » RJ45. Le dispositif à DEL ne fonctionnera pas en utilisant ce mode (fig. 7).
- ⚠ **Avertissement!** Consultez la section 9 pour apprendre comment brancher le Gavita Master Controller Gen 2 au dispositif à DEL.

fig.6

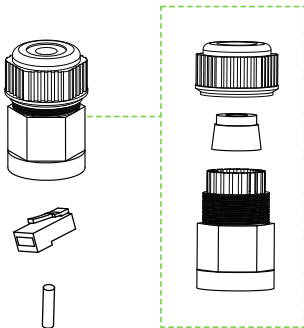
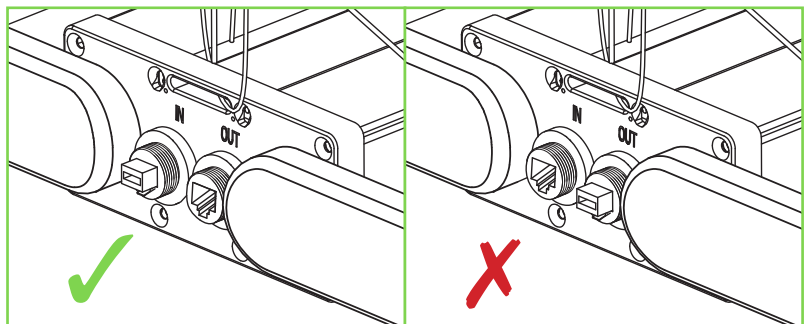


fig.7



8.3 MODE III: REMOVAL OF EXTERNAL CONTROL (*Controller || Dummy Plug Failure*)

1. **Scenario:** External controller or dummy plug malfunctions or is removed from the RJ45 "IN" port.
 - A. The LED fixture will default to OFF. This will prevent the fixture from accidentally turning on due to a wiring issue or system failure.
 - B. The LED fixture can be turned back on by the digital dimming button when there is no external control.

8.4 MODE IV: BREAKER || CONTACTOR PANEL CONTROL

1. **Scenario:** Customer utilizes a breaker or contactor panel for line voltage operation.
 - A. Dummy plug or external control must be connected to RJ45 "IN" port on the first fixture.
 - B. If there is no external controller or dummy plug connected to the RJ45 "IN" port, then the LED must manually be turned on after powering the unit.

9. CONTROLLING WITH GAVITA MASTER CONTROLLER GEN 2:

Part No.: HGC906121

DESCRIPTION: Gavita® Master Controller EL2 - Gen 2



- I. Remove the cable gland assembly on the LED fixture.
- II. Remove the dummy plug from the RJ45 "IN" port. (Save for future use.)
- III. Refer to section 9.3 for instructions on attaching the watertight cable gland to the input cable on the first fixture of the continuous chain.
- IV. For instructions on connecting LED fixtures in parallel or series, refer to section 9.1 on daisy chaining with interconnect cables.

9.1 CONTROLLING UP TO 1,000 FIXTURES

- I. Remove the dummy plug from the RJ45 "IN" port on all LED fixtures.
- II. Use the controller cable (RJ45 - RJ9) to connect the primary channel of the controller to the RJ45 "IN" port of the first LED controller.
- III. Use the interconnect cable (RJ45 - RJ45) to connect the RJ45 "OUT" port of the first LED fixture to the RJ45 "IN" port of the second LED fixture.
- IV. Repeat these steps to connect up to 1,000 LED fixtures in series.

⚠ **Warning!** Power cord and interconnect cables must not touch the LED rails.

⚠ **Avertissement!** Le cordon d'alimentation et les câbles de liaison ne doivent pas toucher aux traverses du dispositif à DEL.

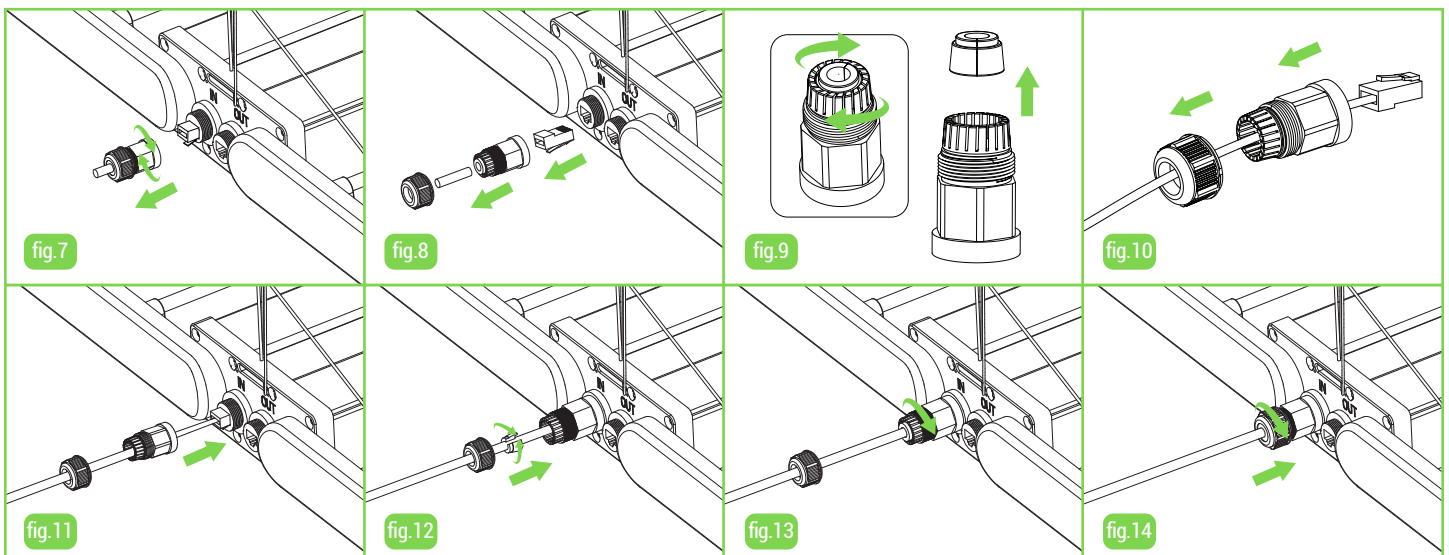
9.2 UTILIZING A 3RD PARTY CONTROLLER*

- I. Follow the sample steps in section 8.3 (Editor Note: EL2 Controller Section)
- II. For configuration of interconnect cables, see section 9.4. (Editor Note: Custom Cables Section)

*This fixture is intended to be used with the Gavita e-Series controller platform. Compatibility with third party controllers is not guaranteed.

9.3 DAISY CHAINING - WATERTIGHT INTERCONNECTIONS

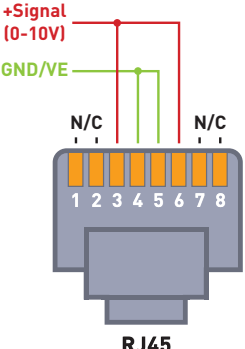
- I. Remove the protective cable gland from the RJ45 "IN" port (fig. 7).
- II. Remove dummy plug from RJ45 "IN" port (fig. 8).
- III. Undo the rear nut of the protective cable gland and pull out the rubber seal (fig. 9).
- IV. Slide cable through the securing nut and the gland covering (fig. 10).
- V. Plug the interconnect cable into the RJ45 "IN" port (fig. 11).
- VI. Place the rubber seal on the wire between the securing nut and gland covering, then press into the protective gland (fig. 12).
- VII. Tighten the securing nut onto the gland cover to create a watertight seal (fig. 13-14).
- VIII. Repeat steps above for all IO ports in the daisy chain.



9.4 CUSTOM CONTROL CABLE AND 3RD-PARTY SPECIFICATIONS

The LED fixture can be used with most analog 0 -10 Volt DC communication systems.
For analog control, please follow the chart below on custom wiring on the fixture side.

PIN OUT (FIXTURE SIDE RJ45 6P4C)								
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
CONNECTION	N/C	N/C	Signal	GND	GND	Signal	N/C	N/C



DIMMING SEQUENCE			
	NC/Error State	OFF	ON
RECOMMENDED SIGNAL (VDC)	0.0	2.5	5.0
FIXTURE RESPONSE (% Output of Fixture)	0%	0%	50%
			CONTROL RANGE
			5.0 V - 10.0 V
			50% - 100%

9.5 CONTENTS OF THE REPEATER BUS CONNECTION KIT NOT INCLUDED. KIT SOLD SEPARATELY.

The e-Series adapter interconnect kit contains the following items:

HGC906712: 1) 1x Gavita e-Series LED Adapter Interconnect Cable 80 ft Kit
2) 6x RJ45 terminal connectors

HGC906714: 1) 1x Gavita e-Series LED Adapter Interconnect Cable 80 ft Kit
2) 3x RJ45 + 3x RJ14 terminal connectors

OPTIONAL: HGC906721: Gavita e-Series LED Adapter Interconnect Cable 3 Way Splitter RJ45
HGC906720: Interconnect Cable Crimper

9.6 PREPARATION FOR USE WITH A CONTROLLER

Locate the unstripped interconnect cable.

Cut the cable to the desired length and strip both ends using a crimp tool (e.g. product #HGC906720, sold separately).

Insert the cable end into the RJ connectors and use the crimp tool to finish the assembly.

9.7 CONNECTING THE LED FIXTURE TO THE MAINS

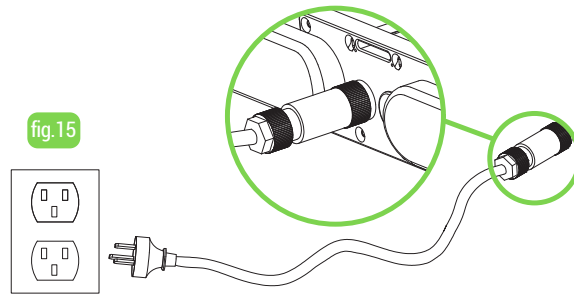
Make sure power cords:

1. Are **not** concealed or extended through a wall, floor, ceiling, or other parts of the building structure.
2. Are **not** located above a suspended ceiling or dropped ceiling.
3. Are **not** permanently affixed to the building structure.
4. Are routed so that they are not subject to strain and are protected from physical damage.
5. Are visible over their entire length.
6. Are used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.

- Ensure the cord is not coiled and does not touch any hot surfaces.
- If external switching gear is used to switch the fixture, ensure it can cope with the inrush current of the fixture.
- **Always use a double pole contactor suitable for switching a capacitive load.**
- **Never use household timers to switch the fixture!**
- Switch off main power.
- Connect the power cable to the mains. The Sun System RS 1850 LED 120-240 V power cables connect to a NEMA Receptacle. The Sun System RS 1850 LED 277 V uses an open-end cable.

Cable Description Sun System RS 1850 LED 277 V

WIRE	277 V
White	Neutral (N)
Black	Phase (L)
Green	Ground (⊥)



Connect the Wieland RST16i5 female connector on the power cable to the Wieland RST16i5 male connector on the LED fixture. (fig. 15)

- If a controller is used, ensure the controller is connected to the fixture.
- Switch on main power.

⚠ **Warning!** Do not connect or disconnect the power cable to the LED fixture when under load.

⚠ **Avertissement!** Ne pas brancher ou débrancher le câble d'alimentation lié au dispositif à DEL lorsque ce dernier est sous tension.

10. PRECAUTIONS WHEN USING THE LED FIXTURE

⚠ **Warning!** Always wait 20-30 minutes for the LED rails to cool down!

11. INSPECTION, MAINTENANCE AND REPAIR

⚠ **Warning!** Disconnect the LED fixture from mains before performing any maintenance or repairs.

⚠ **Warning!** Do not connect or disconnect the LED fixture under load.

⚠ **Warning!** Do not open or disassemble the LED fixture; there are no serviceable parts inside. Opening the LED fixture can be dangerous and will void the warranty.

⚠ **Warning!** Always allow for a cool-down period of at least 30 minutes before touching the LED.

⚠ **Caution!** Do not clean the LED fixture with detergents, abrasives or other aggressive substances.

- Regularly check the LED fixture for dust or dirt buildup. Clean if necessary. Contamination may cause overheating and decreased performance. Clean the outside of the LED fixture using a dry or damp cloth.
- Regularly check the cables of the LED fixture to ensure they are undamaged.

⚠ **Avertissement!** Débranchez le dispositif à DEL du conducteur principal avant d'effectuer tout entretien ou toute réparation.

⚠ **Avertissement!** Ne pas brancher ou débrancher le dispositif à DEL lorsqu'il est sous tension.

⚠ **Avertissement!** Ne pas ouvrir ou démonter le dispositif à DEL; aucune pièce n'est réparable à l'intérieur. Ouvrir le dispositif à DEL peut être dangereux et entraînera l'annulation de la garantie.

⚠ **Avertissement!** Toujours prévoir une période de refroidissement d'au moins 30 minutes avant de toucher le dispositif à DEL.

⚠ **Avertissement!** Ne pas nettoyer le dispositif à DEL avec des détergents, des substances abrasives ou autres substances agressives.

- Contrôlez régulièrement l'accumulation de poussière et de saleté sur le dispositif à DEL. Nettoyez-le au besoin. La contamination peut entraîner une surchauffe et la diminution de ses performances. Nettoyez l'extérieur du dispositif à DEL à l'aide d'un chiffon sec ou humide.
- Vérifiez régulièrement que les câbles liés au dispositif à DEL ne sont pas endommagés.

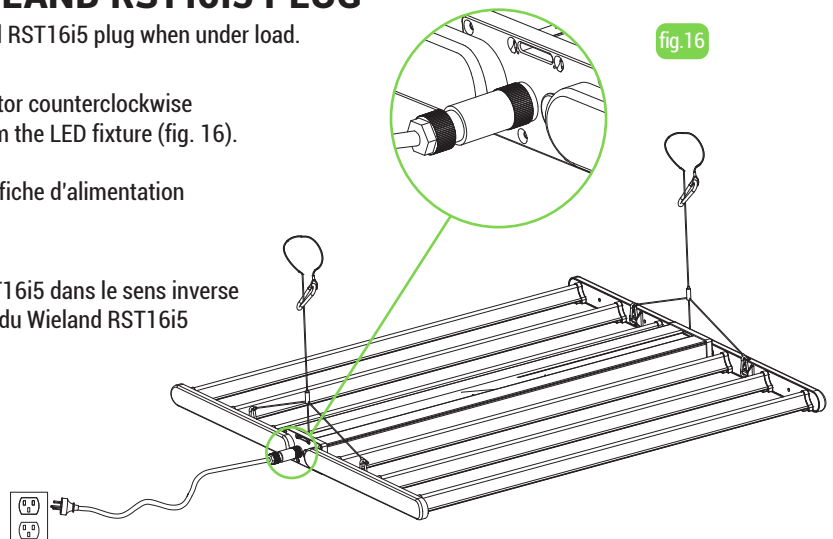
12. HOW TO DISCONNECT THE WIELAND RST16i5 PLUG

⚠ **Warning!** Do not connect or disconnect the Wieland RST16i5 plug when under load.

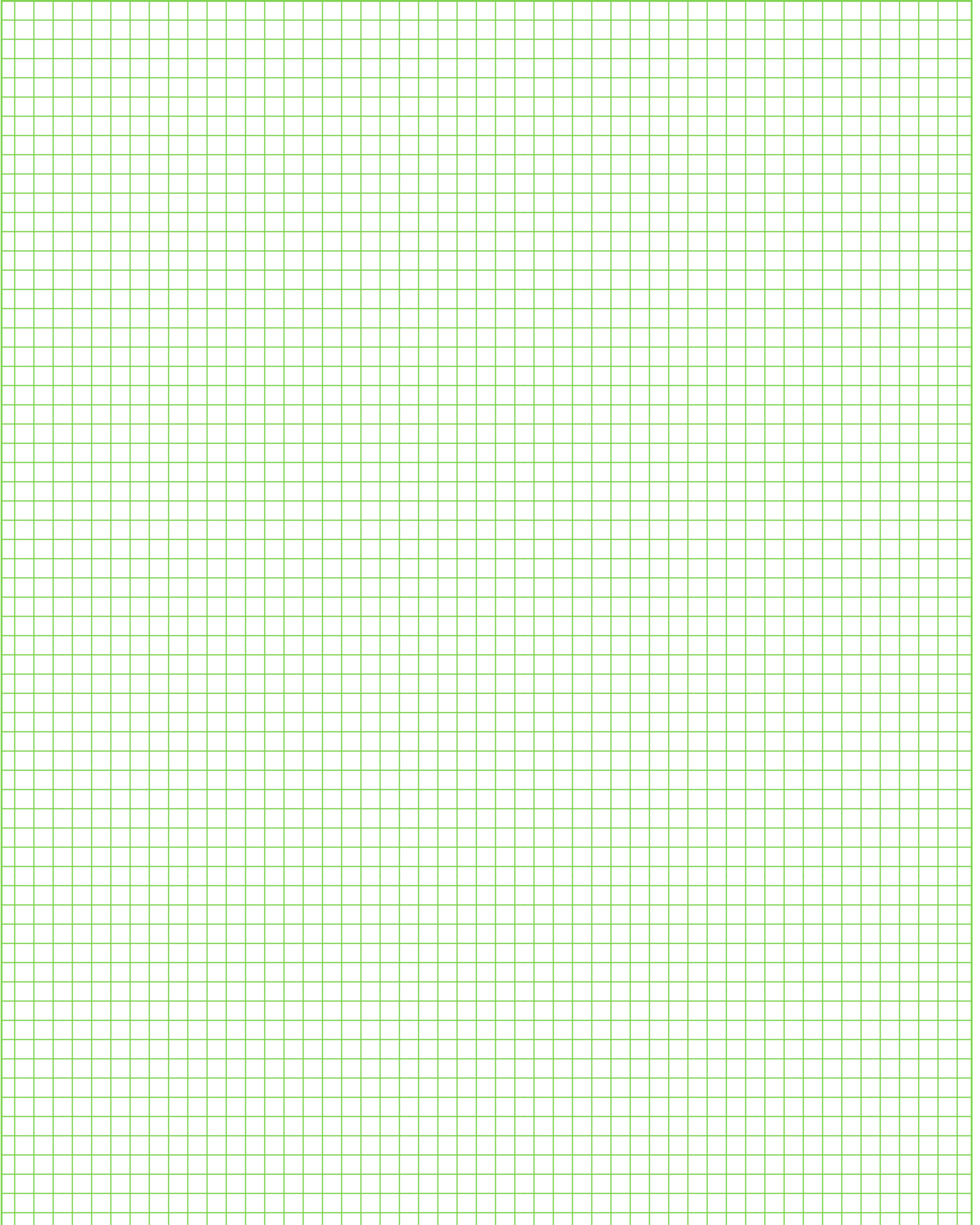
- Switch off main power.
- Turn the ring on the Wieland RST16i5 female connector counterclockwise and pull the Wieland RST16i5 female connection from the LED fixture (fig. 16).

⚠ **Avertissement!** Ne pas brancher ou débrancher la fiche d'alimentation Wieland RST16i5 lorsqu'elle est sous tension.

- Éteignez l'alimentation principale.
- Tournez l'anneau du connecteur femelle Wieland RST16i5 dans le sens inverse des aiguilles d'une montre et tirez le raccord femelle du Wieland RST16i5 du dispositif à DEL (fig. 16).



PLANNING



[illegible]

13. STORAGE AND DISPOSAL

Store the LED fixture in a dry and clean environment, with an ambient temperature of -4 to 185° F / -20 to 85° C.



The product must not be discarded as unsorted municipal waste, but must be collected separately for the purpose of treatment, recovery and environmentally sound disposal.

14. WARRANTY SERVICE

Hawthorne Hydroponics LLC warrants the mechanical and electronic components of their product to be free of defects in material and workmanship if used under normal operating conditions for a period of five (5) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use, Hawthorne Hydroponics LLC shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case Hawthorne Hydroponics LLC decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. five (5) years from the date of purchase of the original product. For service, return the Sun System RS 1850 LED fixture to your shop with the original sales receipt. PLEASE NOTE: More than 15% of the diodes must be non-functional before the unit can be considered defective.

15. LIMITED WARRANTY

When purchased from an authorized Hawthorne dealer, this product is covered by a LIMITED WARRANTY, available at hawthornegc.com/warranties. You can also obtain the Terms of Sale and Limited Warranty by calling Hawthorne toll-free at: 1-888-478-6544 or writing Hawthorne at: Hawthorne Hydroponics LLC, 3204 NW 38th Circle, Vancouver, WA 98660., Attn: Customer Service.



HAWTHORNE GARDENING™

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Manufactured for Hawthorne Hydroponics LLC,
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3204 NW 38th Circle, Vancouver, WA 98660

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ART			PRINTER		
Design Studio/Contact: Lori McMin	Hawthorne Design Project Number:	Separator/Contact: OBF /	Printer & Location: TCPI CHINA	Print Method:	Color Stations:
Design, File Name: HGC906145_SunSystem_RS-1850-LED_Manual_210204a.ai			Additional Information:		
PRODUCTION/PACKAGE		VERSION	Colors:		
Job Description: HGC - Sun System RS 1850 LED Mid Tier 6-Rail User Manual		5	Cyan		
SKU #: HGC906145	Package Type: 8.5" X 11" 12-page Instruction manual		Magenta		
Component #: xxxxxx	Substrate:	Date Modified: 02/04/2021	Yellow		
Hawthorne Project Number: 106442	Printer Die Line #:	Operator:	Black		
Hawthorne Project Lead:	Translation Approval Code:	Final Artwork Size: 8.5" X 11"	REGULATORY SIZES		
File Name:			Label Portion Of Primary Front Panel In Square Inches (W X H)		
OBF Project #:	Wave:	UPC #:	"Keep Out of Reach of Children"		
OBF Job #:	UPC SIZE:	UPC BW:	"SIGNAL WORD (MUST BE IN ALL CAPS)"		
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