



**- PureTM
+ PWR**
Heavy Duty Vehicle
Power Conditioner

INSTRUCTION FOR INSTALLATION, OPERATION, AND MAINTENANCE

⚠ DANGER

Understand manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. Obtain safety information at tft.com/serial-number.

This instruction manual is intended to familiarize installers, end users, and maintenance personnel with the operation, servicing, and safety procedures associated with this product. This manual should be kept available to all operating and maintenance personnel.



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DANGER

PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. **IT IS YOUR RESPONSIBILITY** to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called on to use.
3. **IT IS YOUR RESPONSIBILITY** to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
4. **IT IS YOUR RESPONSIBILITY** to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. **IT IS YOUR RESPONSIBILITY** to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns or other severe injury.

Fire and Emergency Manufacturers and Service Association, Inc.
PO Box 147, Lynnfield, MA 01940 - www.FEMSA.org
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1.0 MEANING OF SAFETY SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI Z535.6, the definitions of the four signal words are as follows:

- | | |
|--|---|
| | DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. |
| | WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. |
| | CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. |
| | NOTICE is used to address practices not related to physical injury. |

2.0 GENERAL INFORMATION

TFT RC Monitors, RC Extend-A-Guns, and RC Valves utilize state-of-the-art electronic systems that can be affected by the quality of the truck voltage system. Voltage system sags or brownouts can be caused by weak primary batteries, poor wiring connections, length of wiring, wiring damaged due to corrosion, or other electrical equipment turning on & off. The lower voltage conditions will cause reduced torque and speed on the RC equipment motors. This can lead to circuit boards resetting, no nozzle movement, or valves not opening under pressure. The TFT Pure PWR will provide equipment adequate power to stay active through most sags and brownouts without loss of torque or speed and without circuit boards resetting. With connectors pre-installed, the Pure PWR can quickly be installed in-line with most TFT RC equipment cabling.

2.1 PART IDENTIFICATION

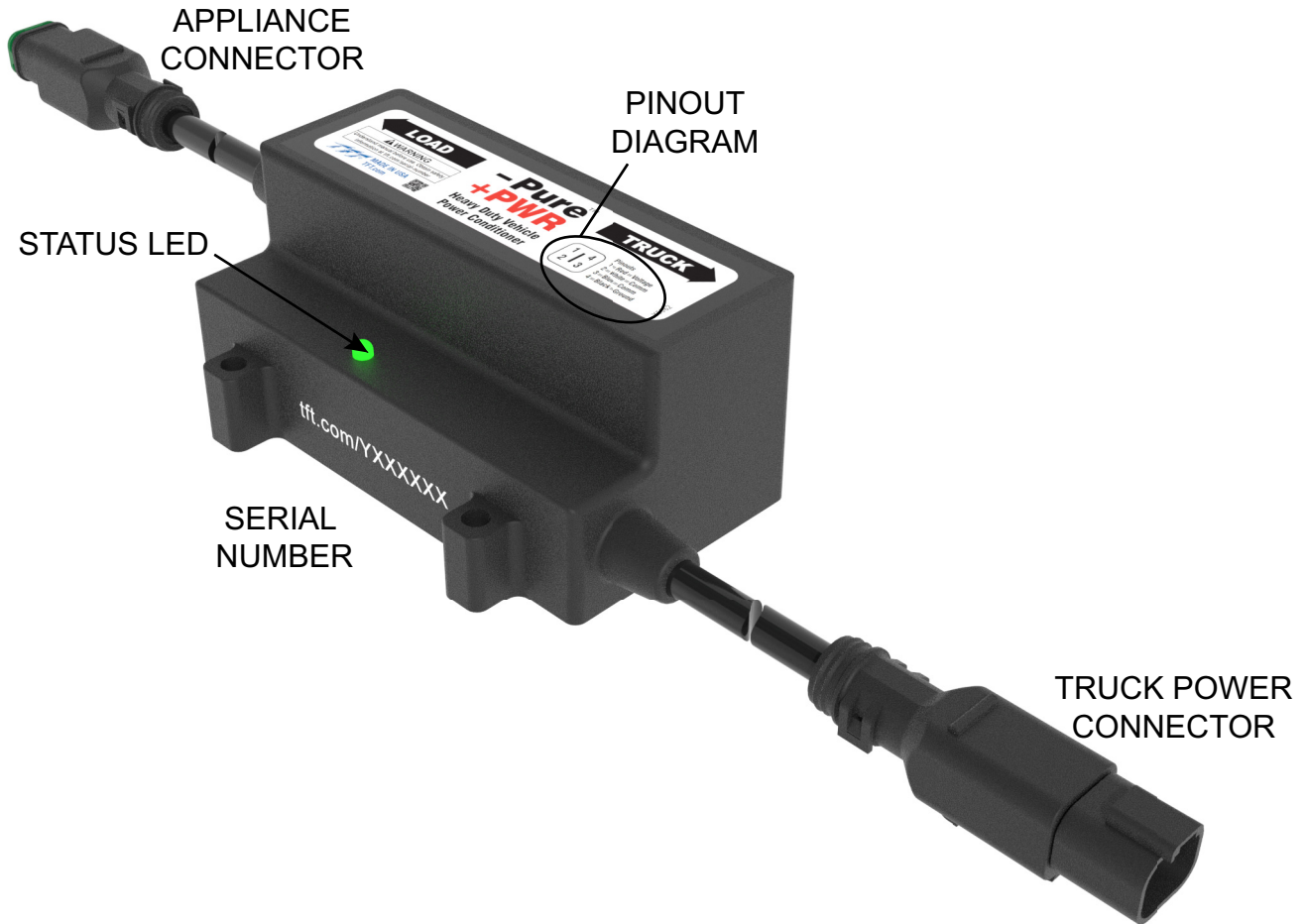


Figure 2.1

2.2 SPECIFICATIONS

Nominal Operating Voltage	12 or 24 VDC (auto sense)
Maximum Operating Voltage	32 VDC
At Rest Current	.25 amps @ 12 VDC
Charging Current	5 amps @ 12 VDC
Recommended Fuse Size	15 amps @ 12 volts, 7.5 amps @ 24 volts
Operating Temperature Range	-30°F to 120°F (-34°C to 49°C)
Environmental Rating	All components designed to meet minimum rating of NEMA 4 (IP65).

Table 2.2

3.0 INSTALLATION

3.1 MOUNTING

1. Choose a mounting location.
2. To ensure proper hole location, use the full-size mounting template in Figure 3.1.
3. Pre-drill holes using a 0.266 (size H) drill bit.
4. Secure the unit using (4) 1/4-20 fasteners (not provided).

NOTICE

Overtightening the mounting screws will damage the mounting tabs. Carefully tighten screws in an alternating pattern just until the unit is secure.

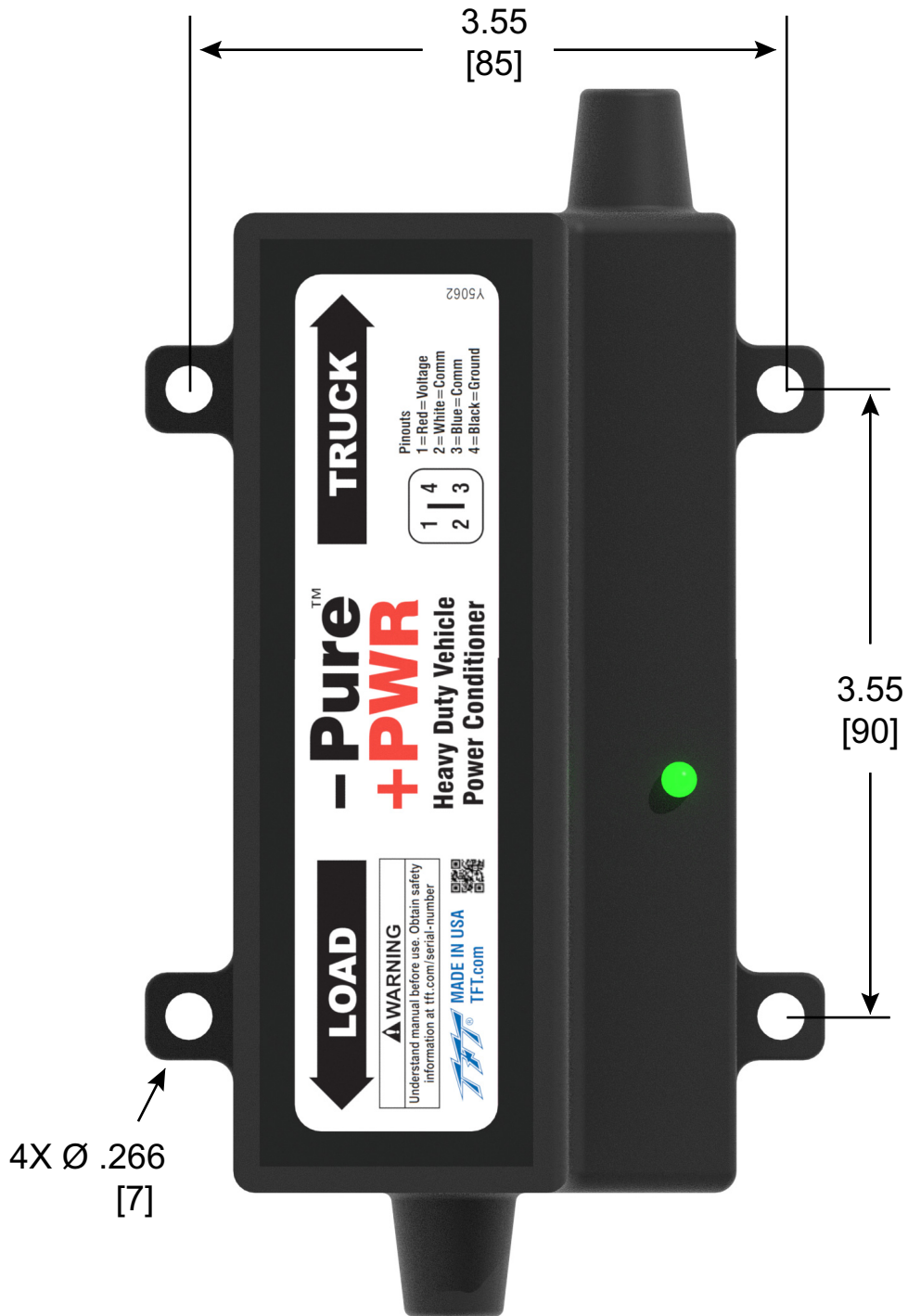


Figure 3.1

3.2 WIRING

NOTICE

Always disconnect power before installing or servicing electrical components. Failure to do so could cause damage to the circuit boards.

Connect RC Monitors, RC Extend-A-Guns, and RC Valves to the LOAD connector of the Pure PWR. The cable from the truck power supply is connected to the TRUCK connector.



NOTICE

Modification to the connectors will be necessary to install RC Extend-A-Gun and RC BIV. Consult TFT's Customer Service Department (800-348-2686) for installation requirements.

4.0 OPERATION

Because the Pure PWR is wired directly to the truck electrical system, PurePWR will automatically provide power conditioning anytime vehicle power is applied to the input (truck) connector. A green LED is illuminated to indicate that the unit is operating and within voltage limits. A red LED indicates a low voltage condition (below 9.5 Volts for 12 Volt systems or 21.5 Volts for 24 Volt systems).

5.0 WARRANTY

Task Force Tips LLC, 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA ("TFT") warrants to the original purchaser of its products ("equipment"), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the two (2) year period from the date of purchase. TFT's obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT's examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, TFT will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT.

It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT's liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THIS DOCUMENT.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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6.0 REPAIR

There are no servicable components on the Power conditioner. All returns require a Returns Goods Authorization (RGA) number. Call TFT service department at 1-800-348-2686 to troubleshoot and if needed, obtain an RGA and directions for return.

CAUTION

Any alterations to the product or its markings could diminish safety and constitutes a misuse of this product.

7.0 OPERATION AND INSPECTION CHECKLIST

BEFORE EACH USE and BEFORE BEING PLACED BACK IN SERVICE, the Power Conditioner must be inspected to this checklist:

1. There is no obvious damage such as missing, broken or loose parts, damaged labels, etc.
2. The unit is securely fastened to the truck.
3. All connections are secure.
4. LED status light is operating.
5. All markings are legible.

WARNING

Equipment failing any part of the checklist is unsafe for use and must have the problem corrected before use or being placed back into service. Operating equipment that has failed the checklist is a misuse of this equipment.