



**- Pure[™]
+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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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

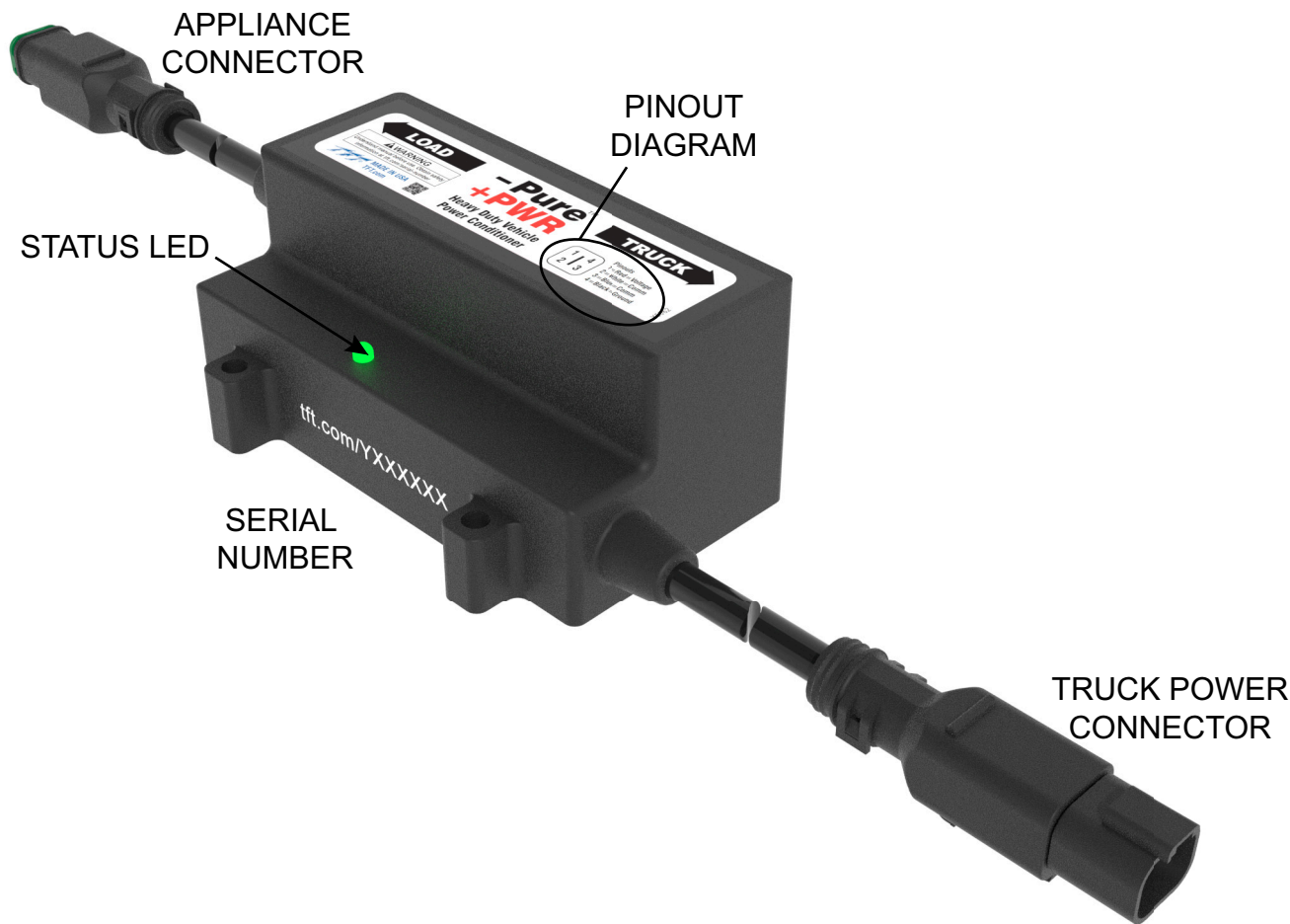


Figure 2.1

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.

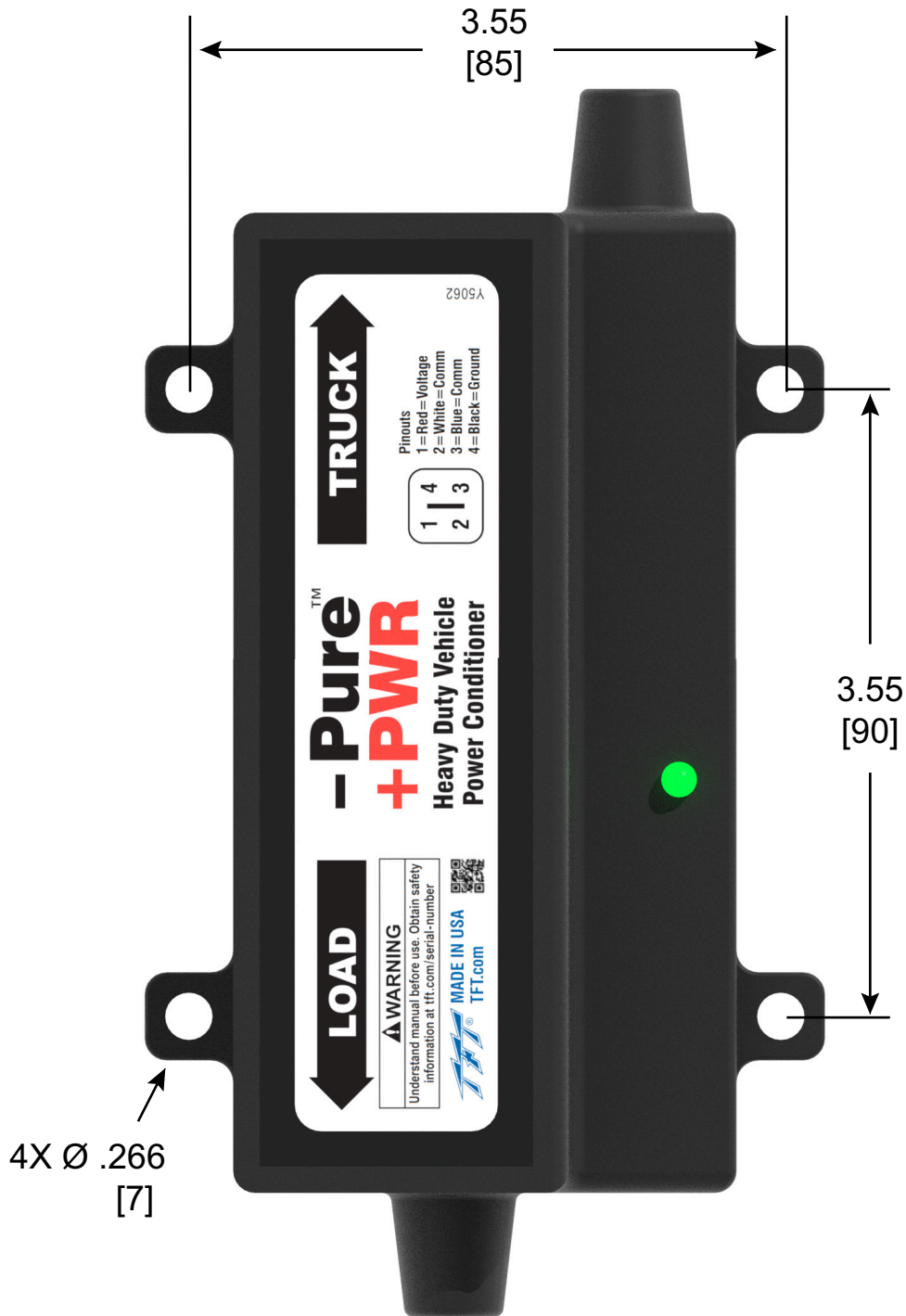


Figure 3.1

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

Go to tft.com for warranty information.

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.

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