



LIMITED WARRANTY

Hurst Auto-Truck Electric, Ltd., d.b.a. Tuff Stuff Performance Accessories, Ltd., warrants that its products will be free from defects in materials and workmanship for one year from the original retail purchase date. This warranty applies only to the original purchaser. To request a warranty evaluation, the product must be returned to the original retailer where it was purchased.

For Retailers and E-Retailers:

If a Tuff Stuff product is determined to be defective, Tuff Stuff may choose to repair or replace it. Defective products must be returned—along with proof of purchase—to Tuff Stuff's manufacturing facility in Cleveland, Ohio. Before returning any product, you must contact Tuff Stuff to obtain an RGA (Return Goods Authorization) number. Call 216-961-1800 for an RGA authorization number. Customers are responsible for all transportation and shipping costs associated with returning the product. Tuff Stuff is not responsible for any product returned without an RGA authorization number.

- Blown up, shattered or cracked drive end housings, burnt or broken starters are not warrantable.
- Alternators with burnt stators or stripped rotor threads are not warrantable.
- Water pumps with cracked housings or blown bearings/seals or coolant stain at the weep hole are not warrantable.
- Chrome plated, polished or painted units that have been scratched or damaged in any way because of careless installation are not warrantable. "Blued Chrome" is not a defective product.
- Units that have been disassembled, modified or altered in any way are not warrantable.
- Unit must be returned in its original box, with a copy of paid receipt or it will not be warranted.
- Power Brake Boosters must be dry and no brake fluid in unit for return.
- There are no implied warranties of merchantability or fitness for a particular purpose on any Tuff Stuff product.
- Under no condition is labor, installation fees or compensation allowed.

In no instance shall Tuff Stuff be responsible to repair or replace a product under this Limited Warranty if said product was improperly installed, altered or misused, including using the product contrary to Tuff Stuff's printed instructions or instructions stamped on the product itself.

THE FOREGOING STATES THE SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY or for any other claim based on any defect in or non-performance of the product(s).

WITHOUT LIMIT THE GENERALITY OF THE FOREGOING, TUFF STUFF SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO ANY BREACH OF WARRANTY OR CLAIMED DEFECT IN, OR NON-PERFORMANCE OF, THE PRODUCT(S).

THIS LIMITED WARRANTY IS DESIGNED TO FULLY COMPLY WITH THE TERMS AND PROVISIONS OF THE MAGNUSON-MOSS WARRANTY ACT. SOME STATES MAY NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

Product specifications and pricing are subject to change without notice or obligation. Tradenames are used for reference only.

RGA RETURNS WILL ONLY BE PROCESSED FOR THE 48 CONTIGOUS UNITED STATES OF AMERICA.

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ALTERNATOR INSTALLATION INSTRUCTIONS

CAREFULLY READ THESE INSTRUCTIONS BEFORE ATTEMPTING ANY MODIFICATIONS!

Proper installation of this alternator is the responsibility of the installer. Improper modification or installation will void your warranty and may result in vehicle damage or personal injury. If you have any installation questions, refer to your factory shop manual or call our Tech Service personnel at 216-961-1800 from 7am to 4pm EDT.

- 1 - Disconnect the ground cable from the battery.
- 2 - Disconnect all wire connections from the alternator and label wires for future replacement. Remove belt.
- 3 - Loosen mounting and tension arm bolts.
- 4 - Hold the alternator securely while removing the mounting bolts and spacers. Remove old alternator.
- 5 - Install new alternator and replace all mounting bolts and spacers. Do not fully tighten bolts.
- 6 - Replace drive belts on pulleys and adjust belt tension. Belt should have $\frac{1}{2}$ " to $\frac{3}{4}$ " play as light pressure is applied at midpoint between pulleys.
- 7 - Tighten all bolts and reconnect alternator wires and battery ground cable.
- 8 - **Make sure battery is fully charged** before starting engine.

Note: 1-wire alternators require only 1-wire to operate. Reconnect only the main output wire to the positive lug and remove or tape off all other existing wires.

ALL ALTERNATORS REQUIRES A GOOD GROUND

In order for an alternator to charge properly, an alternator must be grounded to the engine block. If an alternator has paint or clear-coat on the mounting surfaces, it may not be grounded and will not charge. For these reasons, many Tuff Stuff alternators include a grounding tab that should be used to ground the alternator.

CORRECT WIRE SIZE IS CRITICAL

It is very important to use the correct wire size to connect the alternator to the battery. A wire size too small can allow the wire to overheat, melt the insulation and cause a fire or worse. Depending upon the maximum output of the alternator, use the following chart as a minimum wire size guide. Trunk mounted batteries require heavier gauge battery cables; contact Tech Service for recommendation.

AMPS@12V	1-5 FT	5-10 FT	10-15 FT	15-20 FT	20-25 FT	25-30 FT
60-100	6 AWG	4 AWG	1 AWG	0 AWG	0 AWG	2/0 AWG
100-150	4 AWG	2 AWG	0 AWG	2/0 AWG	2/0 AWG	3/0 AWG
150-190	4 AWG	1AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG
190-250	2 AWG	0 AWG	2/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG