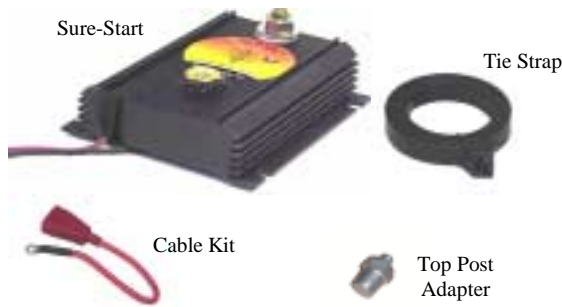


Parts List



Installation Instructions

- 1) Turn everything off, remove your ignition key and disconnect the positive battery terminal from the battery.
- 2) Attach the SureStart™ to the battery with the tie strap. Make sure that you select a location where the original battery cable reaches the SureStart™ unit. The SureStart™ unit may also be bolted directly to the chassis of your vehicle.



It is recommended to bolt the SureStart™ unit directly to a flat metal chassis part in applications where the continuous current draw is expected to exceed 100 Amps. This helps keeping the SureStart™ cool. The inner fender is a good example of a suitable location. Be careful when drilling in chassis parts - it's easy to accidentally drill through exterior body panels.

NOTE: Make sure that neither terminal of the SureStart™ comes in contact with any chassis part, moving part, or hot part.

- 3) Attach the Top Post Adapter to the output terminal of the SureStart™ if your battery has top terminals. If your battery has side terminals, the Top Post Adapter attaches to the positive battery terminal. Tighten firmly, without over tightening.



- 4) Ground the black lead of the SureStart™ to a chassis bolt. Make sure that your chassis bolt is not rusted or corroded. The SureStart™ will not function without proper ground.

- 5) Attach the original battery cable to the output terminal (3/8" Nut/Top Post Adapter) of the SureStart™.



- 6) Attach the Cable Kit to the input terminal of the SureStart™ (5/16" bolt) and to the positive battery terminal (The side post battery uses the Top Post Adapter).

- 7) Fold the end of the purple cable from the SureStart™ and insulate with electrical tape.

Audio Amplifiers

- 8) Audio amplifiers and other high powered equipment are preferably installed directly to the battery. This type of equipment typically has remote on/off features. SureStart™ protects the radio/CD player which in turn controls the Audio Amp through the remote on/off.

Restoring Vehicle Power

- 9) Open the vehicle door and turn everything off. Step on the brake pedal, turn the ignition on, or toggle the head light switch to restore power to your vehicle. It is also possible to touch the metal part of the Quick Connect terminal of the purple test lead to the positive battery terminal. Charging your battery to a voltage equal to, or

higher than, 13 Volts also resets SureStart™. Start your vehicle and let the engine run to recharge your battery.

Built-in Self Test

- 10) Locate the purple wire of the SureStart™. Continuously ground the purple wire until SureStart™ shuts off (1 minute or less). This forces the SureStart™ to shut off, just as if the battery voltage was low. Releasing the purple wire from ground ends the test. See 9 to reset SureStart™. Tape the end of the Quick Connect terminal with electrical tape when finished testing.

Maintenance

- 11) Keep all electrical connection tight and corrosion free. Avoid spraying rust proofing chemicals, oil, or grease on the SureStart™ unit.

Environmental

For 12V Automotive systems with negative Ground.

Operating Temperature

-40°C to 125°C

-40°F to 257°F

Relative Humidity

0 to 100%

Mechanical Shock

20 G'

Safety Systems & Controls

1201 Upland, #C-1

Houston, TX 77043

800/318-2022

Special Characteristics

- *Dual Thresholds (Shut-off levels)*
- *Can be Used as Battery Isolator*
- *Programmable Turn-Off Thresholds*
- *Programmable Automatic Reset*
- *Programmable Running Sensor*
- *Solid State (no mechanical parts)*
- *Soft Switching (reduces spikes & transients)*
- *Built-in Self Test*
- *Microprocessor Controlled*
- *Easy Installation (no cutting or splicing of cables)*
- *Programmable with Laptop/PC (Adapter Required)*

Trouble Shooting & F.A.Q.

Q. How will SureStart™ affect my vehicle's alarm?

A. The SureStart™ protects the safety of the owner, the battery and also the alarm on the vehicle. SureStart™ disconnects the battery when discharged below 25%. The battery system is automatically reconnected, along with the alarm, when the owner or a car thief opens the door or tries to start the vehicle.

Q. Will SureStart™ disconnect the battery when my hazard lights are left on?

A. The hazard lights affect the running sensor inside SureStart™ the same way as when the engine is running. This prevents SureStart™ from disconnecting the battery. SureStart™ is unaffected by external electrical sources.

Q. How will the engine computer and clocks be affected ?

A. The engine computer (ECM/PCM) resets itself automatically during normal driving. Clocks and radio station memory may need to be reset.

Q. Is my SureStart™ defective when it disconnects regularly?

A. Absolutely not. Frequent disconnects may result from electrical shorts, alternator problems, weakened battery due to normal aging, or other electrical problems in your vehicle.

Q. How long will it take SureStart™ to disconnect the battery if I leave my headlights on?

A. It may take 1 to 2 hours, depending on the condition of your battery. An interior dome light, or other low power accessory, may require 6 to 8 hours; sometimes even longer.

Also see the "Built-in Self Test" section of the installation instructions.

Q. Does SureStart™ cycle on/off every time I start the engine?

A. No. SureStart™ does not cycle on/off each time the vehicle is started. The battery is disconnected only as needed to prevent deep discharges. The SureStart™ is, for the most part, unnoticeable to the driver/vehicle owner.

Limited 3 Year Warranty

Description of Warranty

The manufacturer warrants the original purchaser that its SureStart™ products and the components thereof, will be free from defects in workmanship and materials for a period of (3) three years or 36,000 miles from the date of purchase*.

The manufacturer will, without charge, repair or replace, at its option, defective SureStart™ products or components parts.

The manufacturer shall not be liable for any consequential damages, including without limitation, damages resulting from loss of use or cost of installation.

Remedy And Rights

SOME STATES DO NOT PERMIT ANY LIMITATIONS ON THE LENGTH OF AN APPLIED WARRANTY AND THEREFORE THE IMMEDIATELY PRECEDING SENTENCE MAY NOT APPLY. IN NO EVENT SHALL THE MANUFACTURER BE OBLIGATED OR LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT OR PUNITIVE DAMAGES OF ANY KIND. SOME STATES DO NOT ALLOW EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES AND THEREFORE SOME OR ALL OF THE IMMEDIATELY PRECEDING SENTENCE MAY NOT APPLY.

Claims

To make a claim under this Limited 3 Year Warranty, contact your supplier, dealer or installer.

*Exclusions: This limited warranty does not apply: 1) to any damage by accident. 2) in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. 3) if the product markings are altered, defaced or removed.

Owner's Manual

SureStart™ Battery Protector



Description

The SureStart™ protects the battery in a vehicle from accidental discharge. The battery is protected from the entire electrical system. Installation is facilitated in the engine compartment of a vehicle. The SureStart™ unit attaches to the battery and utilizes the existing battery cables. It's a simple "bolt on" procedure where NO cutting or splicing is required. The SureStart™ shuts off when the battery charge level has decreased to approximately 25%.

The SureStart™ is reset by pressing the brake pedal, or turning the ignition on, or opening the door, or toggling the head light switch.

NOTE: When SureStart™ shuts off, your battery is low on charge and has to be recharged by a battery charger, or by the alternator in your vehicle.

Signal processing circuitry detects when the engine is running and prevents the SureStart™ from shutting off when the vehicle is driven.