



Dealer Installation Guide and Technical Information

DIMENSIONS:

Base 1 5/8" (4cm) X 2 1/4" (5.5cm), Height (including removable protective cap) 2 1/2" (6cm), Brackets 1 1/4" (3.5cm) X 5/8" (1.5cm) X 1/8" (3mm).

WEIGHT:

SBS 175gm, Accessories Pack 280gm, Packaging 3gm; TOTAL WEIGHT: 408gm (1 lb).

CURRENT SPECIFICATIONS:

Operational Current Consumption: **10 Milliamps**; Disconnect Current Connection: **3.5 milliamps**; Maximum Peak Amperage: **1100 Amps**; Continuous Ampe Capacity: **250 Amps**; Disconnect Voltage Threshold: **11.8V** on :30 sec timer.

OPERATIONAL TEMPERATURE RANGE:

-60°F (-51°C) to 200°F (90°C). SBS is made of non-combustible materials.

PROPOSITION 65 WARNING!

Battery posts, terminals and related accessories contain lead and lead compounds. These are chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

RPM:

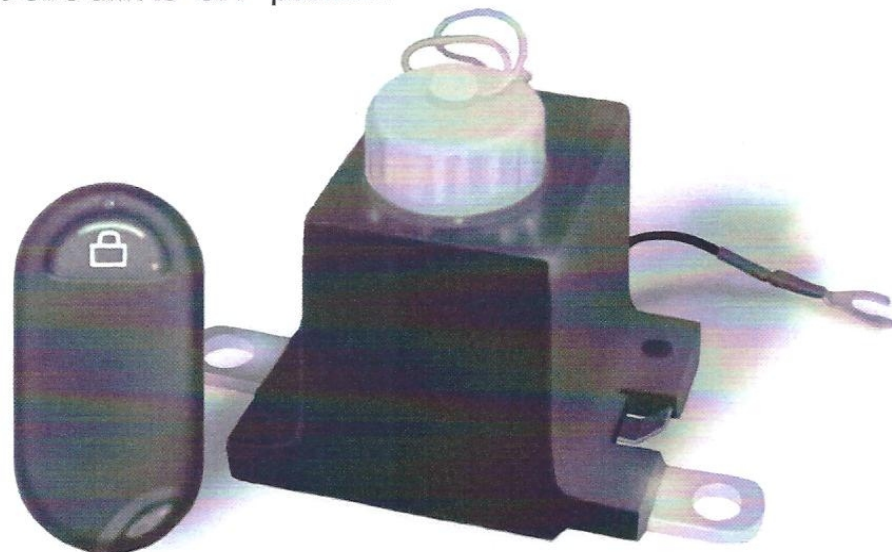
The Sure Start™ Smart Battery System (SBS) is installed on the positive (+) battery post with the post clamp provided. The clip end of the black ground wire is fastened to the negative (-) post clamp bolt.

IMPORTANT NOTES:

Before beginning installation, be sure the battery is holding the proper charge. If the battery is not holding the minimum charge, it may be at or near its life cycle and should be replaced. The SBS is designed to protect a new battery or properly functioning battery. It cannot restore or repair a damaged battery. If the vehicle battery shows signs of physical damage such as swelling, leaking or cracking, replace the battery before installing the SBS. **When running diagnostics or jump-starting the vehicle, turn the SBS unit to 'OFF' position.**

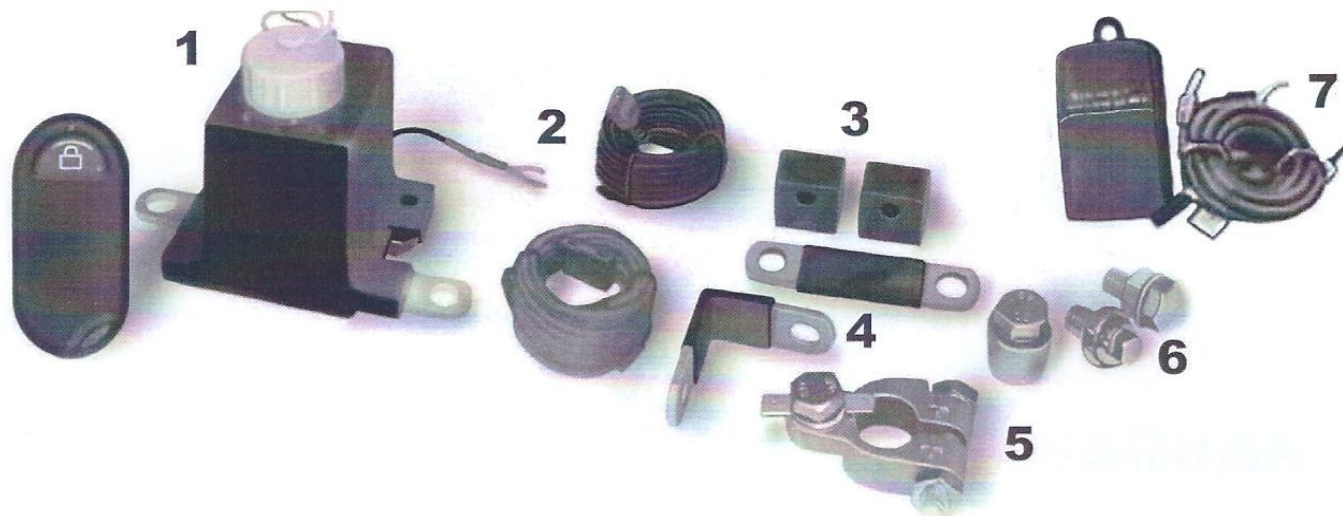
THE STANDARD Sure Start™ KIT INCLUDES:

1. SBS Unit and Ground Wire
2. Manual Reset Control Cap (On-Off Reset)
3. Ignition Wire / ACC Input Terminal (ignition wire input)
4. Black Accessory Bypass Wire, Red Fused Ignition Wire
5. Accessory Kit
6. Single Button Reconnect Remote
7. Vibration Sensor (optional)



Sure Start™ INSTALLATION KIT:

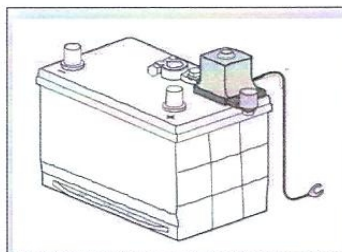
1. SBS Unit with top "ON-OFF" Switch and Single Button Reconnect Remote
2. ACC Wire (12V+ Accessory or Ignition Input)
3. Chassis Mounting Blocks
4. L-Bracket and Straight Mounting Brackets
5. Aluminum Positive Post with Bolt and Side Mount Bolts
6. Universal Nut, Washer and Bolt
7. Vibration Sensor (optional)



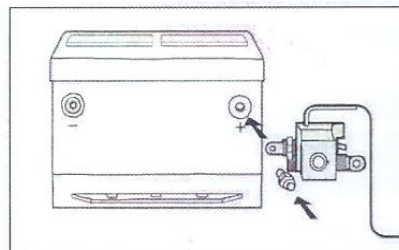
INSTALLATION INSTRUCTIONS:

NOTE: Battery location and position differ in various vehicles. With the supplied accessories, you can mount the SBS on virtually any vehicle using the Top Mount, Side Mount or Chassis Mount positions. **NOTE:** After installation, ensure that all connections are tight.

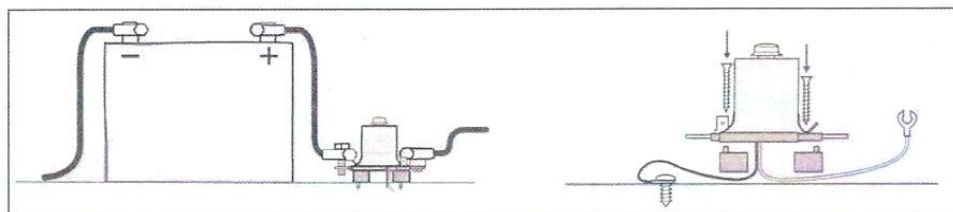
SAMPLE INSTALLATION OPTIONS:



TOP MOUNT OPTIONS



SIDE MOUNT OPTIONS



CHASSIS MOUNT

STEP 1:

A: Disconnect the black/negative (-) cable from the negative (-) battery post on the battery. **B:** Disconnect the positive (+) cable from the positive (+) battery post on the battery.

STEP 2:

A: Turn the Manual Reset Control Knob to the 'OFF' position **B:** Connect the positive (+) side of the SBS marked "BATT +" to the positive (+) post on the battery using existing cable mounting hardware or hardware included in kit.

STEP 3:

Connect side of unit labeled "Cable" to positive (+) cables.

STEP 4:

Connect the clip end of the black ground wire to the clamp nut on the negative (-) cable.

STEP 5: VIBRATION SENSOR OR IGNITION WIRE

INSTALL THIS VB SENSOR OR IGN. WIRE TO ENSURE THE SURE START™ WILL NOT DISCONNECT WHILE THE ENGINE IS RUNNING. Installation of the VB sensor or ignition wire prevents the SBS from disconnecting the battery while the engine is running and the voltage level drops below 11.8V, as could be the case with accessories that briefly reduce the voltage below the voltage threshold during normal operation. (Example: Liftgate, Winch, Handicap Ramp, High Power Audio Systems, etc.)

A: VB Sensor can be attached to any side of the Sure Start™ Unit or an alternate flat surface in the engine compartment. **1)** Connect the VB Sensor red wire to the side of the Sure Start™ marked "BATT" using the butterfly connector which is provided on the post-clamp assembly in the Accessory Kit. **2)** Connect the VB Sensor blue wire to the "cable" side of the Sure Start™ using the protruding metal tab marked "ACC". **3)** Connect the VB Sensor black wire to the black ground wire on the Sure Start™ using a Scotch-Lok, or similar wire splice.

B: Locate a wire or fuse that indicates 8V-12V or more when the ignition switch is in the Ignition 'ON' or 'RUN' position and also indicates 0V when the ignition switch is in the 'OFF' and 'ACC' position. **C:** Slide the connector end of the ignition wire onto the single connector on the RSBS. **C:** Attach the other end of the supplied ignition wire to the selected wire or fuse as mentioned above. This may require running a wire to the interior of the vehicle. A wire-tap connection may be required (included).

STEP 6:
The SBS unit uses a Single Button Reconnect Remote allowing the SBS to be reconnected with one push of the button on the Remote. **NOTE: The Remote only reconnects the battery. It WILL NOT disconnect the battery.**

INSTALLATION COMPLETE:

A: Press and turn the Manual Reset Button to 'ON'

STEP 7: TESTING THE INSTALLATION

A: TO TEST FOR SUCCESSFUL INSTALLATION: Start the engine after installation is complete. If the engine starts properly, proceed to the next step. If not, review the installation instructions again.

B: DISCONNECT IGNITION WIRE FROM THE SBS UNIT FOR TESTING: This will speed up testing time as it allows the SBS unit to disconnect while the vehicle is in the ignition position.

C: TO TEST RPM OPERATION: With the Manual Reset Control Knob in the 'ON' position, turn the vehicle key to "ignition on" position. Then turn on as many electrical accessories (i.e. lights, radio, defrosters, AC, etc.) as possible and leave them on. The SBS unit will cut the power from the battery automatically, confirming that the SBS is working.

NOTE: This may take some time depending battery health and state of charge.

D: TO RECONNECT THE SBS UNIT: Press down and hold the button on the Remote for about 4 seconds.

TROUBLE-SHOOTING:

IF, AFTER INSTALLATION, THE SBS DOESN'T SEEM TO BE WORKING PROPERLY OR FREQUENTLY DISCONNECTS, HERE IS WHAT TO DO:

1. Verify that the battery and charging systems are in proper working condition.
2. Verify the positive (+) side of the SBS (labeled 'BATT+') is attached to the positive (+) post of the battery.
3. Check that the Manual Reset Control Knob is pointing to the 'ON' position.
4. Check that the black ground wire is securely attached to the negative (-) post on the battery.
5. Check for excessive current consumption or electrical short.
6. Make sure all lights and any aftermarket accessories are OFF.
7. Disconnect all aftermarket accessory electronics such as radio, phone charger, DVD player, etc. and then check them again.
8. Verify that the battery's voltage remains above 11.9 volts when the vehicle's ignition is completely OFF. If the vehicle is in proper working condition and the voltage of the battery falls below 11.9 volts for more than 30 seconds after the ignition is turned off, test the battery for the need of possible replacement.

NOTE: If you cannot determine an SBS configuration for the vehicle, contact Technical Support.

VERY IMPORTANT: If a warning light for 'NO CHARGE' or 'BATTERY' warning illuminates on the dashboard, turn the MANUAL RESET CONTROL KNOB to the 'OFF' position. The vehicle will experience a complete loss of power unless the 'NO CHARGE' problem is corrected immediately! This problem is unrelated to the SBS and should require assistance from a qualified electrical technician.

TECHNICAL SUPPORT: (805) 486-6644

www.



1000 Yarnell Place
Oxnard, CA 93033

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UNLIMITED MILEAGE / LIMITED WARRANTY

Sure Start™ warrants that your Smart Battery System (SBS) shall be free from defects in materials and workmanship for thirty-six (36) months from the date of original purchase. This limited warranty extends to the original buyer only. Within the period of this limited warranty, Sure Start™ will repair or replace the SBS free of charge. No other express warranty is given and no affirmation of Sure Start™ by words or action, will constitute a warranty. *No person, dealer or representative is authorized to make any warranty other than as expressed herein.* Any implied warranty required by law shall be limited in duration to the expressed warranty term. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. **Warranty Exclusions and/or Damage Limitations:** Repair or replacement of the SBS is the *only* remedy under this limited warranty or implied warranty. You are responsible for all other charges, including but not limited to any shipping, labor, or installation charges, related to the removal or replacement of the SBS and shall bear the risk of loss during shipment. Sure Start™ disclaims any liability for any special, punitive, incidental or consequential damages based on breach of warranty or any other legal theory to the fullest extent permitted by law even if Sure Start™ has been advised of the possibility of such damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. In no event shall Sure Start's™ liability exceed the original purchase price of the SBS. **This limited warranty does not apply to any of the following:** (1) Any cost or charges, including without limitation shipping and labor, related to the removal and replacement of the SBS (2) Damage due to operation of the SBS other than the use of the correct model on the specified battery voltage (3) Any defect, malfunction or failure caused by accidents, misuse, abuse, improper installation (including disassembly of the SBS), use of the product with equipment for which the SBS was not intended, or unauthorized alterations or repair of the SBS (4) Any SBS that has been subject to mishandling, neglect, improper or inadequate storage, improper testing, improper installation, repair, alteration, damage, assembly or processing that alters physical or electrical properties of the SBS (5) Any other abuse or misuse by you or others (6) Damage during shipment (7) Damage to property resulting from the failure of the SBS to provide a desired or presumed result or from any other cause; or (8) Any act of God, such as floods, hurricanes, earthquakes or fires. This limited warranty shall terminate upon expiration of the warranty period. **How to Obtain Warranty Service:** Upon discovery of any defect or nonconformity, you should return the SBS to the original dealership or retailer, depending on where purchased, within thirty (30) days of purchase date. If it is determined that the SBS is defective, Sure Start™ will either repair or replace the SBS within thirty (30) days of receipt of the defective SBS. **NOTE:** This limited warranty gives you specific legal rights, and you may also have other rights which vary from State to State. You have the right to bring any action at law or equity to resolve disputes concerning or to enforce the provisions of this limited warranty. **SURE START™ MAKES NO REPRESENTATIONS OR WARRANTIES** as to whether use of the SBS will void the manufacturer warranty on any vehicle and you assume all costs and responsibility if the manufacturer warranty on your vehicle is deemed void or otherwise effected. This Limited Warranty Certificate supersedes any and all other agreements either oral or in writing, between the parties hereto with respect to the warranties, limitations of liability and/or damages regarding the Sure Start™ Smart Battery System (SBS).