



INSTRUCTIONS FOR

BOOSTER CABLES 16MM²X3M CCA 400AMP

MODEL NO: **BC16403SR**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
Instruction
Manual



Warning:
Explosive
Risk



Wear Eye
Protection



Wear
Protective
Gloves



Warning:
Electricity



Warning:
Corrosive

1. SAFETY

1.1. PERSONAL PRECAUTIONS

- ✓ Ensure that Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment
- ✓ Ensure that there is another person with you especially within hearing range of your voice, or close enough to come to your aid should a problem arise when working near a lead-acid battery.
- ✓ Remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, which may cause severe burns.
- ✓ Ensure that hands and clothing (especially belts) are clear of fan blades and other moving or hot parts of engine, remove ties and contain long hair.
- ✓ Wear safety eye protection and protective clothing. Avoid touching eyes while working near battery.
- ✗ **DO NOT** smoke or allow a spark or flame in the vicinity of battery or engine.
- ✗ **DO NOT** drop any metal tool onto the battery as it may spark or short circuit the battery which could cause an explosion.
- ✗ **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.

1.2. GENERAL SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with the application, limitations and potential hazards relating to this product. Also, refer to the vehicle manufacturer's handbook. IF IN ANY DOUBT CONSULT AN ELECTRICIAN.
- ✓ Ensure that the booster cables are in good order and condition before use. If in any doubt do not use the unit and contact an auto electrician.
- ✗ **DO NOT** dis-assemble the Booster cables for any reason. The booster cables must be checked only by qualified service personnel.
- ✗ Only use recommended attachments and parts. To use unapproved items may be dangerous and will invalidate your warranty.
- WARNING!** Check that both vehicle batteries are the same voltage.
- ✓ Ensure that vehicles are not touching before attempting to use these leads.
- ✓ Keep tools and other items away from the engine, and ensure that you can see the battery and the working parts of the engine clearly.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Ensure that the jump leads are not tangled and are clear of moving or hot engine parts.
- ✗ **DO NOT** allow the clamps to touch each other or to make contact with the vehicle bodywork, as this may result in arcing.
- ✗ **DO NOT** cross connect the power leads to the battery. Ensure positive is to positive and negative is to negative.
- ✗ **DO NOT** pull the cables or clamps from the battery terminals.
- ✗ **DO NOT** operate in the vicinity of flammable liquids or gases.
- ✗ **DO NOT** try to jump start a frozen battery.
- ✗ **DO NOT** use or store the booster cables in damp or wet locations.
- ✗ **DO NOT** use this product to perform a task for which it is not designed.
- ✓ The cables may become hot with excessive use. If so, allow a few minutes for them to cool before attempting to re-use.
- ✓ If the surge protection unit receives a sharp knock or blow, the unit must be checked by a qualified service agent before next use
- ✓ When not in use, store the booster cables carefully, in the case provided, in a safe, dry, childproof location.
- WARNING!** Modern vehicles contain extensive electronic systems.
You are required to check with the vehicle Manufacturer, for any specific instructions regarding the use of this type of equipment on each vehicle.

2. INTRODUCTION

The Booster Cables consist of PVC sheathed copper coated aluminium cables which give maximum power transfer yet remain flexible and resistant to oil, grease and most acids. Insulated heavy-duty clamps reduce the heating effect of power transfer. The unit features an LED display unit which shows the battery voltage and includes a reverse polarity indicator and alarm. In line surge protector helps to prevent electrical spikes occurring. Additional features include alternator charge check and battery condition check and is supplied in a carry case.

3. SPECIFICATIONS

Model No.:..... BC16403SR
Cable Section:.....16mm²
Length:..... 3m.
Capacity:.....400A
Suitable for:.....4-8 Cylinder Petrol Engines.

4. OPERATION

4.1. **Connecting Booster cables**

- 4.1.1. Starting with the clamps at the end nearest to the surge protector, attach the red (positive) clamp to the positive terminal of the charged battery.
- 4.1.2. Connecting the second red (positive) clamp to the positive battery terminal of the vehicles flat battery.
- 4.1.3. Connect Black (negative) clamp at the end nearest to the surge protector, to the negative terminal of the charged battery.
- 4.1.4. Finally connect the black (negative) clamp to an unpainted part of the chassis or engine on the vehicle with the flat battery.
 - ☐ Warning! ensure that the connection point is not near the battery, carburettor, fuel or brake pipes to minimize any fire risk that could be caused by sparking.

4.2. **Starting the Vehicle**

- 4.2.1. Ensure that all leads are clear of all moving or hot parts
- 4.2.2. Start engine of vehicle with charged battery and let run for a minute
- 4.2.3. Try to start the vehicle with the flat battery if it starts run for one minute then remove the cables.
- 4.2.4. If the cables become hot switch off both vehicles and allow to cool down before attempting to restart the vehicle.

4.3. **Disconnecting the Booster Cables**

- 4.3.1. Turn off the engine with the charged battery
- 4.3.2. Then remove the cables in reverse order to that described in 4.1
 - ☐ **Warning!** Take care to keep clear of all moving and hot parts.

4.4. **Battery Condition Indicator.**

- 4.4.1. The Voltage indicator displays the voltage when the vehicle engine is not running.
- 4.4.2. A reading of 10.5Volts on a 12V battery or 22Volts on a 24V battery - indicates battery very low in charge may be damaged and not be able to start vehicle.
- 4.4.3. A reading of 11.5Volts on a 12V battery or 23.5Volts on a 24V battery - indicates the battery needs charging or may be damaged.
- 4.4.4. A reading of 12.3Volts on a 12V battery or 24.3Volts on a 24V battery - indicates that the battery is fully charged and in good condition.

4.5. **Testing the battery condition.**

- 4.5.1. Insulate the positive and negative clamps nearest the voltage display by clamping to a non conductive material.
- 4.5.2. Connect the other positive clamp to the positive terminal of the vehicle battery , then connect the negative clamp to the negative terminal of the battery.
- 4.5.3. When the booster cables are connected the voltage will be displayed on the LED indicator.
- 4.5.4. Having confirmed the battery condition remove the cables in reverse order.

4.6. **Alternator Charging Check**

- 4.6.1. The alternator function can be checked to see if it is charging the battery at the correct rate. Connect the clamps as described in 4.5 above.
- 4.6.2. Start the engine and monitor the voltage on the LED indicator.
- 4.6.3. In most cases the alternator will be functioning correctly if the display indicates 13.7-14+ Volts on a 12V battery or 24.7-25+Volts on a 24V battery. Check manufactures specifications for recharge voltages as charging above 14Volts for 12V battery and above 25Volts for 24V battery indicates a possible fault in the alternator this should be checked by an auto electrician.
- 4.6.4. Remove clamps in reverse order.

4.7. **Reverse Polarity LED Indicator.**

- 4.7.1. The LED indicator illuminates red and omits an audible tone when the booster cables are incorrectly connected to the charged battery if this happens reverse the leads. If the LED is not illuminated and there is no audible tone continue to connect leads as described above.

5. TROUBLESHOOTING

Problem	Causes	Solutions
Flat Battery vehicle will not turn over	Insufficient/bad booster cable clamp connection	1. Reconnect the booster cables as in instructions. 2. Check the battery terminals are corrosion free if not clean and reconnect.
	Booster cables connected incorrectly	Check if the reverse polarity LED is illuminated (red) and an audible tone can be heard. If so disconnect clamps and refit as instructions.
Booster Cable gets hot	Incorrect booster cables being used	Check the the vehicles battery AMP rating. Change the cables to the correct AMP type if incorrect
	The vehicles management system may not be working correctly and may be stopping the vehicle from starting. Excessive cranking of the engine may cause cables to get hot.	Stop trying to jump start the vehicle and consult automotive electrician.

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.



Environmental Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.



WEEE Regulations

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.



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