

PROJ1612V

PROJ2512V

PROJ251224V

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: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND 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. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

1. SAFETY INSTRUCTIONS



DANGER! - BE AWARE, LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS VERY IMPORTANT TO READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY, EACH TIME YOU USE THE PROJ EQUIPMENT.

Follow these instructions and those published by the battery manufacturer, and the maker of any equipment you intend to use in the vicinity of the battery. Remember to review warning marks on all products and on engines.



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.
- x DO NOT smoke or allow a spark or flame in the vicinity of battery or engine.
- x DO NOT drop any metal tool onto the battery as It may spark or short circuit the battery which could cause an explosion.
- x 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.
- x DO NOT dis-assemble the Proj 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 engines, 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.
- x DO NOT allow the clamps to touch each other or to make contact with the vehicle bodywork, as this may result in arcing.
- x DO NOT cross connect the power leads to the battery. Ensure positive is to positive and negative is to negative.
- x DO NOT pull the cables or clamps from the battery terminals.
- x DO NOT operate in the vicinity of flammable liquids or gases.
- x DO NOT try to jump start a frozen battery.
- x DO NOT use or store the booster cables in damp or wet locations.
- x 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.



2. INTRODUCTION & SPECIFICATIONS

2.1. Introduction

Many of today's vehicles are crammed with sensitive electronic equipment including ECUs, Air Bag sensors, Digital Dashes, Alarms, Car Radios, Telephones and In-Car Security Systems. The potential for damage to these items from carrying out even basic work on the vehicle is huge. Transient spikes and surges generated by making/breaking contacts can 'fry' electronic cards or, at the very least, lead to premature failure. By using the PROJ Surge Protected Booster Cables, you will protect not only your own vehicle from these dangers, but also the 'sick' vehicle. The LED glows when protection is in place and it is safe to proceed with jump-starting. GS/TUV Approved.

2.2. Specifications

Model No.	Voltage/Capacity	Cable Section	Length
PROJ1612v	.12V/300A	.16mm ²	.3mtr
PROJ2512V	.12V/600A	.25mm ²	.3.5mtr
PROJ251224V	.12 or 24V/600A	.25mm ²	.3.5mtr

3. OPERATING INSTRUCTIONS

NOTE: A good battery will start a vehicle with a flat battery, provided the rest of the system is functioning correctly. If the flat battery will not maintain the vehicle operation, or, if the flat battery later fails again, consult a qualified vehicle electrician.

☐ **WARNING! ENSURE THAT YOU READ, UNDERSTAND AND APPLY SECTION 1 SAFETY INSTRUCTIONS. IF IN ANY DOUBT REFER TO THE VEHICLE HANDBOOK, OR CONTACT A QUALIFIED VEHICLE ELECTRICIAN.**

3.1. BEFORE CONNECTING THE PROJ

3.1.1. Check that both vehicles have the same voltage batteries.

3.1.2. Ensure that vehicles are not touching.

3.1.3. Switch off all electrical equipment on both vehicles, including ignition, select neutral gears (or Park if automatic) and apply handbrakes.

3.1.4. Determine which battery terminal (positive or negative) on the flat battery and on the good battery is connected to the vehicle bodywork or chassis. These are the EARTH terminals. The terminals connected to the vehicle electrical systems are the LIVE terminals.

FOR VEHICLES WITH THE SAME POLARITY, I.E. BOTH NEGATIVE OR BOTH POSITIVE EARTH, REFER TO 3.2. FOR VEHICLES WITH DIFFERENT POLARITY REFER TO 3.3.

When connecting positive terminal to positive terminal (or to positive earth) use the red booster cable. When connecting negative terminal to negative terminal (or to negative earth) use the black booster cable.

3.2. VEHICLES WITH SAME POLARITY

Note! Connect the side 'A' booster cable clamps (as indicated on the surge device fig 1) to the disabled vehicle, and the 'B' side (as indicated on the surge device fig A) clamps to the rescue vehicle.

These instructions assume both vehicles are negative earth. If both are positive earth read 'Black for 'Red' and vice versa.

3.2.1 Connect side 'A' clamps to DISABLED vehicle as follows.

3.2.2. Side 'A' RED clamp to the positive battery terminal on the disabled vehicle.

3.2.3. Side 'A' BLACK clamp to a suitable engine or chassis earth point on the disabled vehicle.

☐ **WARNING!** DO NOT use the vehicle fuel system (i.e. fuel lines or carburettor/injection system) for earthing.

3.2.4. The LED will show green. If it does not illuminate, battery is too discharged (DO NOT attempt to jump-start) or the connections are wrong.

☐ **WARNING!** Ensure the side 'B' clamps are not in contact with each other or any metalwork at this point.

3.2.5 Temporarily disconnect the 'A' side BLACK clamp from the disabled car.

3.2.6 Connect the 'B' side clamps to the RESCUE vehicle as follows.

3.2.7 Side 'B' RED clamp to the positive battery terminal of the rescue vehicle.

3.2.8 Side 'B' BLACK clamp to the negative battery terminal of the rescue vehicle.

3.2.9 The LED will show green if connections are correct. If the LED does not show, the connections are wrong and must be corrected.

3.2.10 Again connect the 'A' side BLACK clamp to the earthing point on the disabled vehicle.

3.2.11 Before attempting the jump-start, start the donor vehicle engine and allow it to run for about one minute.

When the rescue engine is running smoothly, try to start the vehicle with the flat battery.

▲ **CAUTION!** If the booster cables become excessively hot, allow a few minutes for them to cool before trying again.

3.2.12 Once both cars are running allow them to idle for a couple of minutes before disconnecting the booster cables.

3.2.13 To remove the booster cables, first disconnect the BLACK booster cable from the disabled vehicle, followed by the BLACK from the rescue vehicle and finally the RED from both vehicles.

☐ **WARNING!** When removing booster cables ensure that the crocodile clips DO NOT come into contact with each other or any part of the vehicle until they are all safely removed from the vehicles.

3.3. VEHICLES WITH DIFFERENT POLARITY (Positive Earth)

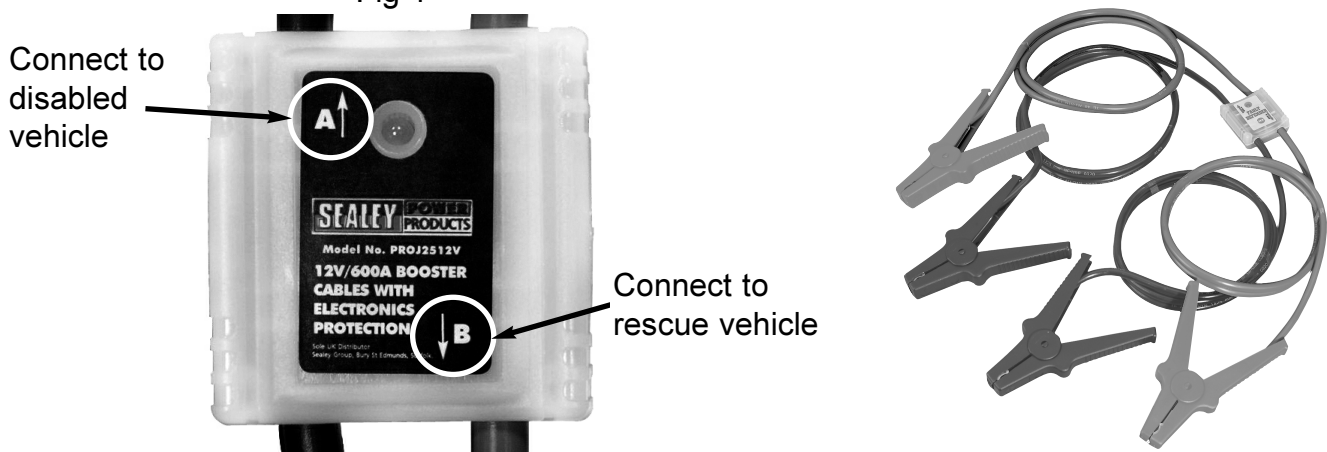
☐ **WARNING!** If you cannot identify the polarity of your vehicle DO NOT proceed but consult a qualified vehicle electrician.

3.3.1 The procedure is similar to above with the following exception.

3.3.2 The **negative Earth** terminal from one vehicle must be connected to the **negative Live** terminal of the other vehicle.

3.3.3 The **positive LIVE** terminal from one vehicle must be connected to suitable **positive Earth** point on the engine or chassis of the other vehicle.

Fig 1



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 responsibility is accepted for incorrect use of this equipment.

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

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

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