## 1. IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS.

**WARNING:** Pursuant to California Proposition 65, this product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

**1.1 Working in the vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal operation. It is important that you follow these instructions each time you use the ProBooster.**

**1.2** To reduce **t**he risk of battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of a battery. Review cautionary marking on these products and on the engine.

**1.3** Keep out of reach of children.

**1.4** Use only in a well-ventilated area.

**1.5** Do not disassemble the ProBooster. Take it to a qualified service professional if service or repair is required. Incorrect assembly may result in fire or electrical shock.

**1.6** Never operate the ProBooster if it is damaged.

**1.7** Do not set the ProBooster on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.

**1.8** Place the ProBooster as far away from the battery being jumped as the cables will permit.

**1.9** Do not expose the ProBooster to rain or snow.

**1.10** Never place the ProBooster directly above battery being jumped.

**1.11** To prevent arcing, never allow the clamps to touch together or to contact the same piece of metal.

**1.12** If someone else uses the ProBooster, ensure they are well informed on how to use it safely, and have read and understood the operating instructions.

**1.13** The ProBooster is NOT designed to be installed as a replacement for a vehicle battery.

**1.14** Do not use for dry cell batteries that are commonly used with home appliances.

**1.15** Make sure your vehicle is in “park” and the emergency brake is engaged.

**1.16** Turn off ALL electronics in your vehicle (air conditioner, heat, radio, lights, chargers, etc.).

**1.17** Make sure the key is in the “OFF” position. For smart-key fobs (push-to-start vehicles), make sure the vehicle is completely OFF before jump starting.

## 2. PERSONAL SAFETY PRECAUTIONS

**2.1** Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help.

**2.2** Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin, or clothing. Wash immediately with soap and water and seek medical attention.

**2.3** If battery acid comes in contact with eyes, flush eyes immediately for a minimum 10 minutes and get medical attention.

**2.4** Neutralize any acid spills thoroughly with baking soda before attempting to clean up.

**2.5** Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.

**2.6** Never smoke or allow a spark or flame in the vicinity of the battery or engine.

## 3. FEATURES


1. Voltage indicator LEDs
2. Condition (Override/Fault) LED indicator
3. GLOW mode button
4. On/Off button
5. 12V DC charging cable
6. Wrench
7. Jumper clamps
8. 12V 10A Input port
9. 5V/2A Micro USB Input port

## 4. OPERATING INSTRUCTIONS

**Pre-Charging**

The DSR ProBooster must be pre-charged before it can be used to jump start your vehicle. The “Standard Mode” instructions will guide you on using your current vehicle’s “weak” battery to pre-charge the ProBooster. If your vehicle’s battery is completely discharged, or does not allow you to pre-charge the ProBooster, see “Alternative Pre-Charge Methods”.

**Standard Mode**

In most cases, the weak battery can fully recharge the ProBooster.

Follow these steps to pre-charge your ProBooster and get your car started:

1. For a negative-ground vehicle (as in most vehicles), connect the POSITIVE (RED) clamp to the POSITIVE (POS, P, +) battery post. Next, connect the NEGATIVE (BLACK) clamp to the vehicle chassis or engine block, away from the battery.
2. For a positive-ground vehicle, connect the NEGATIVE (BLACK) clamp to the NEGATIVE (NEG, N, -) battery post. Next, connect the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery.
3. The ProBooster will turn on automatically. Indicators will show the voltage of the vehicle’s battery.
4. Press the ON/OFF button. The ProBooster will start to recharge itself. LED indicators show the ProBooster’s voltage during charging.
5. After the 14V indicator stops blinking, turn on the engine.

**Alternative Pre-charge Methods**

If your vehicle’s battery is completely discharged, or is unable to charge the ProBooster, the Fault indicator will turn on during charging. You can use one of the following alternative pre-charging methods:

- **From a battery (i.e, friend’s car)**
  Connect the ProBooster’s red (POSITIVE) output clamp to the POSITIVE post of the battery. Next, connect the black (NEGATIVE) output clamp to a heavy, unpainted metal part of the chassis or engine block, away from the battery. **DO NOT connect clamp to the negative battery post, carburetor, fuel line or a sheet metal part.** Press the ON/OFF button. The ProBooster will start to charge itself. After the 14V indicator stops blinking, disconnect the ProBooster by removing the output clamp from the chassis or engine block, followed by the output clamp from the battery post.
- **From a USB**
  The ProBooster can be recharged from any 5V 2A USB port, using a Micro USB adapter (not included). Recharging starts automatically.
- **From a 12V socket**
  The ProBooster can be recharged from a donor car’s 12Vsocket. Plug in the 12V adapter. Charging starts automatically. Once you have fully charged your ProBooster, you can continue with the connection and starting instructions in Standard Mode. If your vehicle’s battery is completely discharged, and you are unable to start the vehicle in Standard Mode, you may need to use the Override Mode starting instructions.

**Override Mode**

If the Standard mode fails, follow these steps to use Override mode:

NOTE: The GLOW function will not operate in this mode.

- Always read the vehicle manufacturer's instruction manual.
- An initial battery indication of below 12V may suggest that there is an internal fault.

1. Pre-charge the ProBooster, using one of the "Alternative Pre-Charge Methods".
2. Remove the vehicle's positive (red) lead from the battery terminal (fig. 1). Ensure that the ProBooster is switched off. Connect the ProBooster's positive clamp to the vehicle positive lead, NOT the battery terminal (fig.1).

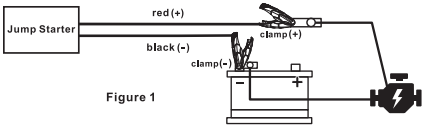

Figure 1

3. Press the ON/OFF button. NOTE: the ProBooster will switch off if not used within 2 minutes; restart the process if this happens. Press and hold the ON/OFF button until the Override/Fault indicator flashes green. This indicates that Override mode is initializing. When the Indicator shows a steady green, the Override mode is active.
4. Start the engine. (The ability for an engine to continue to run without a battery connected will vary, depending on the make and model of the vehicle).

**WARNING:** Do not leave the engine running without the ProBooster or the battery being connected. Failure to comply could result in damage to the vehicle ECU. The manufacturer will not accept responsibility for any damage caused by incorrect use of this product.

5. As soon as the engine starts, and keeping the ProBooster clamp and battery lead connected, attach the positive lead to the positive battery terminal and tighten the terminal clamp (fig. 2). After the positive lead has been secured to the battery terminal switch off the ProBooster and disconnect from the battery.

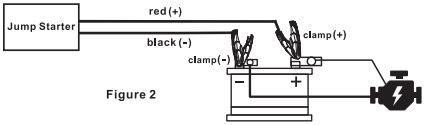

Figure 2

**Glow Mode:**

In cold weather, the glow plugs in most diesel vehicles will energize first to heat up the engine chamber before the engine start, as indicated by the GLOW sign on the dashboard. The process needs a current of 40-60Amp and takes about 4-6 seconds. In this case, after the ProBooster is fully recharged and connected, press the GLOW button, and then turn on the ignition.

**NOTE:** GLOW is inactive under Override Mode.

**Condition Indicator**

The condition indicator turns RED under following conditions:

- Reverse connection
- Battery voltage is lower than 3 Volt

The Condition indicator turns GREEN under Override Mode.

The Condition indicator blinks between RED and GREEN under Glow mode.

**Working Cycle**

| MODEL | MAXIMUM OPERATIONS IN A ROW | MINIMUM INTERVAL BETWEEN SESSIONS |
|---|---|---|
| DSR108 | 5 times | 15 minutes |
| DSR109 | 3 times | 20 minutes |

**IMPORTANT:** Allow sufficient cooling time between two working sessions. Failure to do so may cause damage to the ProBooster.