

MANUAL

Super capacitor start booster GIGASTART

1. Important safety precautions:

Read through this manual and your vehicle manual carefully before first use.

- This device is not intended for use by persons (also not for children) whose physical, sensory or mental abilities are restricted, nor by persons without relevant experience or knowledge if they are not supervised by a safety officer.
- Children must be supervised to ensure that they do not play with the device.
- Only use the device in a dry and well-ventilated place.
- Never use the device near water or fire.
- Wear protective goggles, gloves and protective clothing for each use.
- Use only accessories recommended by the manufacturer to avoid injury or damages.
- The device may only be used within a temperature range of -40°C - $+50^{\circ}\text{C}$ and up to max. 70% humidity.
- The unit must be used in upright position and the handle upwards.
- The maximum operating time of the device is 30 seconds per pass.
- Never open the device. There is a risk of explosion.
- Due to the danger of short circuit the clamps must never touch each other or touch the same metal object.
- After use place the clamps on the brackets provided for it.
- This device is only intended for charging 12 V batteries. 6 V or 24 V batteries must never be connected to this device.
- Never use a damaged device or repair it yourself.

2. Product description

The start booster GIGASTART is equipped with capacitor technology. The biggest difference to conventional battery start boosters is the reliability. The GIGASTART does not have to be charged regularly because it is automatically charged as soon as it is connected to a vehicle with a 12 V battery with residual voltage. The duration for a full charge depends on the battery condition. This can take up to 10 minutes. For charging a minimum speed of 1'500 revolutions must be achieved. If required the included 230 V charger can also be used for charging (duration up to 5 hours). The switch must be set to ON position for charging.

3. Technical specifications

Item number	31317
Take-off performance / peak power	1800 A / 9000 A
Capacitor capacity	500 F / 12 V
Nominal voltage	15 V
Charging time	30 sec. - 10 min.
Operating temperatures	-40°C - $+50^{\circ}\text{C}$
Cable diameter	50 mm ²
Cable length	160 cm
Protection	500 A
Lifetime	1'000'000 lifecycles
Weight	9.5 kg
Warranty	5 years

4. Charge status display

1. Keep the yellow test button pressed.
2. Light up at least 4 LED then the device is ready for use.
3. Light up 3 LED or less then the device must be charged.
4. Light up all 5 LED the device is fully charged.

Notes:

First red LED: 10 V - 11.5 V

Second red LED: 11.5 V - 11.8 V

Yellow LED: 11.8 V - 11.95 V

First green LED: 11.95 V - 12.6 V

Second green LED: 12.6 V - 13.6 V

5. Starting of the vehicle

1. Make sure that the GIGASTART is switched off.
2. Connect the red (positive) clamp to the positive terminal.
3. Then connect the black (negative) clamp to the negative terminal or to the mass of the vehicle. Be careful with moving parts such as: fan, V-belts etc.
4. Turn on the GIGASTART.
5. Keep the yellow test button pressed.
6. When at least 4 LEDs lights up.
7. Start the vehicle.
8. Turn off the GIGASTART.
9. First remove the black clamp and then the red clamp.
10. Stow the clamps into the corresponding brackets immediately.

6. Disposal



Old electrical equipment must not be disposed together with your household waste. Please bring them to a disposal point. For more information, please contact your local council or retailer.

7. Declaration of conformity

Model: 31317
Super capacitor start booster GIGASTART

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Confirms herewith in sole responsibility, that the above mentioned product to which this declaration refers is in compliance with the following standard (s) or standardising document (s):

EN 60335-2-29:2004+A2:2010
EN 60335-1:2012+A11:2014
EN 62233:2008
EN 61558-1:2005+A1:2009
EN 55014-1:2006+A1+2009+A2:2011
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013

In accordance with the provisions of the said directive (s) :

2014/35/EU
2014/30/EU

Bischoffsheim, 01/09/2016