

ASC+ 12/24V Jump-start

12V and 24V JUMP-START FROM 12V VEHICLES



The ASC+ jumpstart automatically and safely creates a 24V jump-start feed from a 12V vehicle at the push of a button.

When in use the system is disconnected from the 'donor' vehicle so no damage can occur.

After use, the system is reverted to 12V to allow fast recharging from the vehicle alternator. An audible and visual warning ensures that you know it is in 24V mode.

Simple to fit and operate, it is the automatic answer for 12V support vehicles servicing a 24V fleet!

KEY FEATURES

- 12V and 24V jumpstart modes
- Disconnects from donor vehicle while in use so cannot damage it.
- Powerful 500 amps cranking current rating
- No current draw from contactors when latched in either "12V" or "24V" state
- All batteries charge from standard vehicle alternator
- Priority split charge protects engine start battery
- Assured start mode
- Audible warnings to help ensure correct charging
- Protection against high voltage backfeed
- Easy to fit system
- Optional remote switch version
- Grey or red Andersen connection options

Overview

The system consists of two main parts: a **jumpstart enclosure** which safely switches the two auxiliary batteries from the parallel 12V charging configuration into a 24V series configuration and a **priority split charge** to protect the vehicle battery and then charge the jump-start batteries.

Operation

12V jump-start

Simply connect jump leads via the Anderson connector. (see schematic) Disconnect Anderson when finished.

24V jump-start

Press and hold 24V button for 3 seconds. A red lamp will illuminate to

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confirm 24V configuration. Connect jump-leads via Anderson connector. Disconnect after use. When finished press and hold 12V switch to revert all batteries to 12V charging mode. If the engine is started whilst in 24V mode a buzzer will sound indicating that it has been left in the 24V state, and all batteries are *not* being charged—press dashboard switch to revert to 12V charging.

Priority Split Charge

This approach, developed by Antares in the UK, has now become the industry standard. Using a battery sensed power contactor, the jumpstart batteries can be recharged without risk of depleting the start battery. The system is virtually 100% efficient, as it does not use diodes with their associated problems: diode volt drop charging difficulties, “differential load”, gassing and alternator voltage control are eliminated. (Note that in some circumstances, such as high powers, long supply leads or low temperature climates, voltage control may be appropriate).

Installation

The system comes complete with dashboard switch, control box, jumpstart enclosure, split charge contactor and control looms.

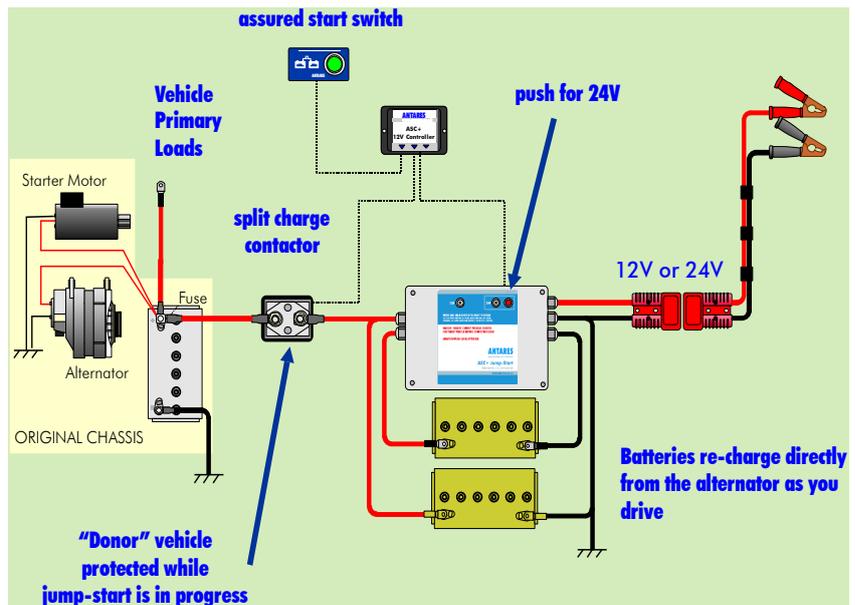
An optional set of pre-terminated jump-start cables can be supplied including a mating red or grey Andersen connector. Other power cables can be supplied on request.

At Antares we pride ourselves on our approach - partnership supply, fully engineered, integrated, reliable and long lasting systems, with life-of-vehicle

Optional Remote

An alternative version of the system is available which allows the jumpstart enclosure to be hidden

close to the batteries and the on/off switches removed from the enclosure and positioned in a remote panel.



Part No	Description
90980	ASC+ JUMPSTART (12V/24V/INTEGRAL)
Includes	Jumpstart contactor box, ASC+ controller, split charge contactor, assured start switch and control cables
90981	ASC+ JUMPSTART (12V/24V/REMOTE CONTROL)
Includes	As above except control switches and LED on jumpstart contactor box replaced by external remote switch panel and LED indicator.
Split Charge Settings	Assured Start connects aux battery back-in manually to allow emergency start. ASC contacts close at 13.1V and open at 12.7V
OPTIONAL PARTS	Antares can supply a complete set of power cables , fuses, and batteries and battery post covers to complete your installation.
98013.xx	JUMPSTART LEAD (RED ANDERSON/CROC with mating Anderson connector). Default length 4m. Other lengths on request.
Jumpstart dims	254mm x 180mm x 90mm (H)
Controller dims	105mm x 71mm x 30mm (H)
Contactors dims	130mm x 80mm x 70mm (H)
Weight	Approximately 2kg