



# HYPASTART ONBOARD

## NEVER NEED TO JUMP START AGAIN

 **WHS COMPLIANT**  **ALWAYS READY**  **AUSTRALIAN MADE**

The Hypastart OnBoard is an automatic start assist device that will provide assistance starting engines in adverse environments and or with depleted or flat start batteries.

Hypastart OnBoard integrates and operates seamlessly with any vehicle. The unit connects to the battery terminals or engine start leads and is mounted externally on the vehicle or within the battery box. Hypastart OnBoard does require vehicle ACC signal to operate.

Once Hypastart OnBoard is installed and powered on it will operate automatically, instantly and seamlessly during every engine start.

## HOW DOES IT WORK?

When the Hypastart OnBoard detects ACC signal from the operator the system instantly prepares to assist the starting procedure by bringing the high output super capacitors online during the cranking phase of the startup. Once the engine has started successfully the super capacitor bank will disengage isolating from the vehicle batteries.

Now the Hypastart OnBoard will move into stage 2 by activating its charge circuit to charge the internal backup AGM batteries from the running vehicle,

simultaneously the super capacitor bank is being energised.

When the internal backup battery of the Hypastart OnBoard is fully charged and the super capacitor bank has reached its maximum start voltage state, the unit will move into stage 3 by completely isolating itself from the running vehicle in preparation of the next start assist procedure.

What happens if the vehicle has a dead flat battery with no ACC signal?

Hypastart OnBoard can be operated manually via the integrated control panel or the optional remote cockpit control panel.

The control panel houses 3 volt meters and a host of switches for manual control.



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Simply remove the clear acrylic cover by removing the 4 thumb screws on the front panel. Next move the AUTO switch into the OFF position and you are ready for the manual start procedure.

Hypastart OnBoard has an internal power supply which can supply power of up to 40 Amps for 30 minutes to run pumps or accessories if required.

To activate the Hypastart OnBoard power supply simply move the PUMP switch to the ON position, typical uses for this operation would be pre-lube systems, running accessories like air, horns or lights during the pre start

## BENEFITS OF HYPASTART ONBOARD

- Sure-start - engine will start regardless of the status of the vehicle batteries
- Sure-run - vehicle can be operated even if alternator is inoperative
- Increases the lifespan of vehicle batteries by reducing starting load
- Increases the lifespan of starter motors by increasing start voltage and current
- Never need to jump start again
- More than one Hypastart Onboard can be daisy chained for increased performance
- Optional Remote cockpit display and control panel

phase. PUMP function automatically turns off after 2 minutes.

Now move the START switch to the ON position and fire the engine. Once the engine has started successfully move the PUMP and START switches to the OFF position and move the AUTO switch to the ON position to reinstate automatic operation of the Hypastart OnBoard. In the event that the vehicle has an inoperative alternator move the RUN switch to the ON position to supply constant power to the vehicle electrical system. Now the vehicle can be moved under its own power.

## HYPASTART ONBOARD-24 Specification

Voltage	24V
Starting Current	2300A
Power Supply	24V 40A
Stored Energy	608Wh
Operating Temp	-40 to +70
Enclosure	Stainless Steel
Size L x W x H	460 x 270 x 230mm
Weight	22KG

## HYPASTART ONBOARD-12 Specification

Voltage	12V
Starting Current	1150A
Power Supply	12V 80A
Stored Energy	608Wh
Operating Temp	-40 to +70
Enclosure	Stainless Steel
Size L x W x H	460 x 270 x 230mm
Weight	22KG



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