

START·ALL⁺

Lithium-Ion Jump Starter & Power Pack



Jump Start Your Vehicle • Charge Your Device

USER MANUAL

WARNINGS



Start-All® 12V Jump-Pack™ series are intended for use on vehicles with 12 volt battery systems only. Do not connect the jumper cables to any vehicle with more than a 12 volt system. Connecting to 18V, 24V or higher voltage systems could result in fire and/or serious injury or death.

1. Keep out of the reach of children.
2. Units should be fully charged at least once every six months. Failure to charge the unit may cause damage to the Start-All® and void warranty.
3. Do not damage, drop or crush this product. Do not attempt to use this product if it has been dropped, punctured, run over or damaged in any way including damage to the clamp or cables.
4. Do not insert foreign objects (including fingers and metal objects) into any input or output ports on the booster. This item may short circuit causing personal injury or fire.
5. Do not expose unit to rain or snow. Do not charge this item in wet conditions.
6. Do not use this product in explosive environment (dust, bilge, gaseous fumes or flammable materials) or in the presence of flammable materials such as carpeting, paper, cardboard or upholstery etc.
7. Do not burn or incinerate this product.
8. Use only recommended attachments. Use of attachments NOT sold by Vanair or included with the Start-All® may result in a risk of fire, electric shock or injury to persons or damage property.

Read the entire manual before attempting to use this product.

9. Never charge a frozen battery.
10. Store Start•All® in a cool dry location and do not expose the unit to temperatures over +140° F or below -4° F.
11. The Start•All® is not designed to be used in place of vehicle battery.
12. If the unit needs to be disposed of for any reason. Please dispose properly by calling your nearest lithium battery recycle facility at 1-800-8-BATTERY.
13. If the product malfunctions or is having problems, please contact Vanair at 844-VAN-SERV.

WARNING! RISK OF EXPLOSIVE GASES

Working in the vicinity of a lead-acid battery is dangerous. Lead acid batteries generate and vent explosive gases during normal operation. Always properly ventilate bilge or engine compartment before attempting to jump start any engine. DO NOT use this product near or in the presence of propane tanks, natural gas or any other explosive fumes. Follow instructions and caution markings on engine and listed in vehicle manual to reduce risk of battery explosion.

DO NOT INTENTIONALLY SHORT THE JUMPER CABLES.

Your Start•All® is equipped with short-circuit protection in the event you accidentally short-circuit the jumper cable. Do not intentionally short-circuit the jumper cables.

WARNING! RISK OF ELECTRIC SHOCK OR FIRE. Discontinue use of this product if it is damaged in any way.

IMPORTANT NOTES

- **FULLY CHARGE THE UNIT IMMEDIATELY UPON OPENING**
- **CHARGE UNIT EVERY NIGHT AFTER USE**
- **CHARGE AT LEAST ONCE EVERY 6 MONTHS**
(Failure to do so may cause damage and void warranty.)

Please read the entire instruction manual before operating the Start•All®. Save these instructions. Review all cautionary markings on this product and in this manual.

The Start•All® is capable of starting gasoline engines up to 8 liters and diesel engines up to 6 liters. There are variables such as extreme outdoor temperatures and truck mechanical issues (bad starter, no fuel or engine problems) that may limit the Start•All®'s ability to start an engine. The Start•All® is designed to instantaneously start a truck battery in a low voltage condition (5V and up).

Ensure that the ignition key/button is turned to first position to detect connection. This will activate the unit.

To activate the 12V DC ext accessories ports; with the power switch in the ON position, press the “OUTPUT 12V” function button until the unit beeps and the LED displays “12V”.

Your Start•All® is fitted with built-in safety protections. These safety protections monitor and control the unit. To ensure product longevity, activation is limited to 30 second intervals. If you experience the unit timing out during a jump start, simply cycle the main ON/OFF rocker switch to reactivate the jump start function.

Warranty for the Start•All® is one-year from date of retail purchase. The Start•All® MUST be registered online at <https://vanair.com/support/registration.html> and customer must be able to provide a dated proof of purchase to be eligible for warranty. Contact the manufacturer directly for instructions at 800-526-8817.

WHAT'S INSIDE

The Start•All® includes the 120VAC wall charger and a 12V car charger to power up your unit.

It also includes a 3-in-1 mobile adapter to charge your mobile phones and other electronics. (Lightning, USB-C and USB mini).



100-240 VAC Wall Charger



12V Car Charger



3 in 1 Mobile Adapter

WHAT CAN YOUR START•ALL® DO?

The Start•All® is capable of starting gasoline engines up to 8 liters and diesel engines up to 6 liters.

Powering your computer or electronics is a breeze with the large capacity 55.5 Wh lithium-ion battery. You can charge your devices through the USB, 6 mm ports or the DC ext port. You can charge most mobile phones, smart phones, laptops, and portable gaming devices. The Start•All® can power your 120V AC devices with its built-in inverter. (200W continuous maximum).

Works with 12V Gasoline or Diesel Powered Vehicles



Works with Phones, Tablets and Laptops



VEHICLE JUMP STARTING

When starting a dead battery, simply connect the positive (Red) clamp to the positive terminal and the negative (Black) clamp to the negative terminal. Wait for a solid Green “8” on the LED display and you can start your vehicle. The unit is equipped with Protect•All™ technology for worry-free connection and safe starting.

ELECTRONICS CHARGING

Turn the MAIN ON/OFF switch to the “ON” position. For charging electronics like smart phones through the USB port, simply insert your OEM cord or utilize the 3-in-1 USB cable provided and press the 5V 2.1A button. To use the 12V or ext accessories ports, press the OUTPUT 12V button. These ports can be used while charging when the battery has a charge over 10 percent.

AC POWER

Turn the MAIN ON/OFF switch to the “ON” position. Press the AC 120V button and plug in your 120V accessory. For example you can power a 120V work light up to 200 watts. The AC 120V port can be used while charging when the battery has a charge over 10 percent.

COMPLETE JUMP STARTING GUIDE

1. Personal Safety & Battery Preparation

- A. Please use safety glasses when jump-starting any vehicle. Remove personal metal items such as watches, rings and bracelets when working with a lead-acid battery. It may cause personal injury.
- B. Please refer to your vehicle's owners manual for proper jump-start connection location.
- C. Identify the positive (RED) and negative (BLACK) terminals before connecting the clamps. Make sure battery terminals are clean and free of debris for safe connection.

2. Start•All® Preparation

- A. Place the Start•All® on a flat surface and turn the main ON/OFF to the ON position, ensuring that the Start•All® has at least a 30% charge.

3. Make the Connection

- A. Disconnect the Red clamp and the Black clamp from the Start•All® docking station. Note: LED should be flashing Red and Green “8”s (search for battery mode).
- B. Connect the positive Red clamps to the positive (+) Red terminal on the battery and connect the negative (-) Black clamps to the Black terminal. Once the battery is detected and is connected correctly, then the LED indicator will show a solid Green “8”.
- C. If connections are made on the battery, connect the positive Red clamps to the positive(+) Red terminal on the battery and connect the negative(-) Black clamps to the negative Black terminal on the battery. Once the battery is detected and is connected correctly, the LED indicator will show a solid Green “8”.

4. Start the Vehicle

- A. Turn the ignition key to the first position
- B. Ensure a proper connection. If properly connected, the unit will display a solid Green “8” on the LED. If the LED displays a Red “8” then there is an error that needs to be addressed.
- D. Once started, turn off the unit and disconnect the clamps from the battery .

TECHNICAL SPECIFICATIONS

Dimensions:	9.5"(H) x 8.5"(W) x 3.5"(D) 241.3mm(H) x 215.9mm(W) x 88.9 mm(D)
Unit Weight:	4.4 lbs (2.04 kg)
Battery type:	Lithium-ion cobalt
Capacity:	55.5 Watt-hours (55,500 mWh) 15,000 mAh at 3.7V
Current:	2500A (<2ms)
Joules ³⁵:	18800
Output Voltage:	12V
Output Ports:	Jumper cables - integrated (1) AC power port (inverter) 120V - 200W continuous, 400W Peak (4) USB - 5V 2.1A (2) External round 6mm
Input Charging Ports:	3.5mm port for use with AC wall charger and 12V car charger
Charging Port:	Charge Voltage/Charge Current: 15V/1A
Operating Temp:	15F to +110F (-9C to +43C)
Estimated Life:	up to 5000 starts
Recharging:	120-240 VAC wall charger ~4 hours 12V DC charger ~6 hours (Charge after each use and every 6 months)

FEATURES

1. Main On/Off rocker switch
2. On/Off button for DC, and 6mm ext ports
3. LED display screen
4. On/Off button for USB ports
5. On/Off button for AC inverter
6. DC ext port 12V
7. 6mm external accessory port
8. 3.5mm charging port for AC wall charger and 12V car charger
9. USB ports (4) 5V, 2.1A
10. AC Inverter 110V - 200W continuous
11. On/Off for LED flashlight
12. LED flashlight



CONTROL PANEL

Main On/Off Switch

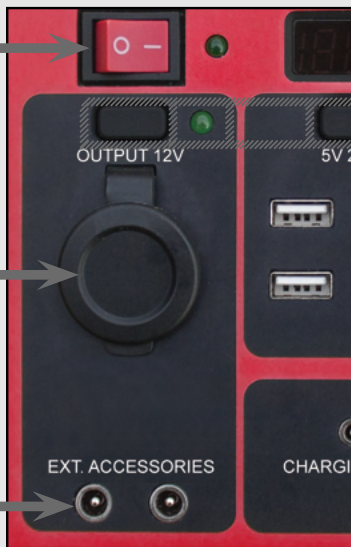
Green LED
illuminates when
the unit is on

12V DC Port

Port for 12 V
accessories.

6mm External Accessories

Plug in one or two
12V accessories
equipped with a
6mm power jack



12V DC Port

Port for 12V accessories.

Panel Activation Switches

Use switches to activate the 12V, 5V and 120VAC panels. The Green LEDs illuminate when panel is powered

AC Inverter 120V

Use for 120V accessories up to 200 watts

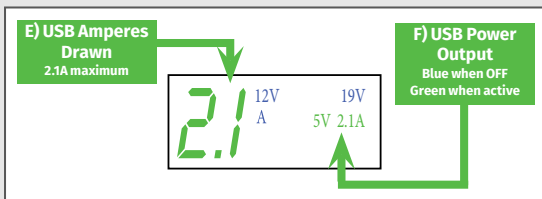
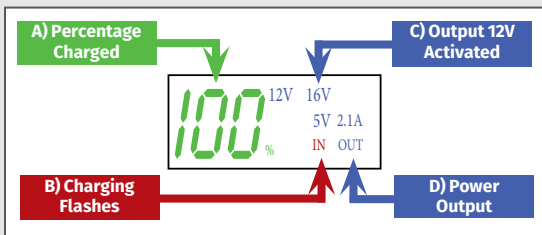
4x - USB Ports

Use these ports to operate or charge 5V USB Accessories, 2.1A Maximum

Charging Port

Use this port to charge your Start•All® (AC/DC)

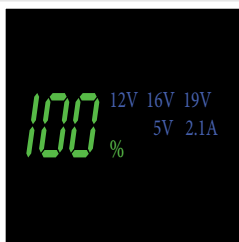
LED DISPLAY



- A) Displays the Start•All®'s percentage charge except when a USB port is first used and the USB amperes draw is displayed.
- B) The “IN” indicator flashes whenever the unit is being charged by the 120-240VAC wall charger or the 12V port charger.
- C) Press the OUTPUT 12V on/off button until it beeps and the “12V” indicator lights on the LED display to activate the 12V power port, and external accessories ports.
- D) Press the AC 120V on/off button until it beeps and the “OUT” indicator lights on the LED display to activate the 120VAC inverter outlet.
- E) The USB amperes drawn displays for 2 seconds whenever an accessory is attached to either of the USB ports. The USB ports combined maximum load is 2.1 amperes.
- F) The “5V 2.1A” goes from Blue to Green whenever a USB port is used to charge or power a USB accessory using one or both of the USB ports

Note: USB amperes only shows for 2 seconds before the LED display returns to displaying the percentage of charge.

LED INDICATORS



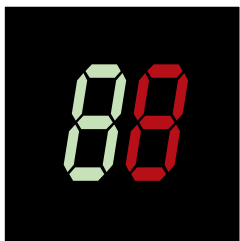
1 Normal Screen

Normal ON/OFF screen. Displays the battery charge percentage. Zero to 30% will display in Red. 31% to 100% will display in Green.



3 Solid Green "8", Alarm: Long Single Beep

Indicates the vehicle is ready to be jump started.



2 Red and Green “8”

Search mode: The unit is searching for a battery and current in order to activate the jump starting.



4 Red “IN” Symbol

Flashing: The unit is plugged in and charging. Solid: the unit is plugged in and either charged or has paused charging to cool the battery.

LED INDICATORS CONTINUED



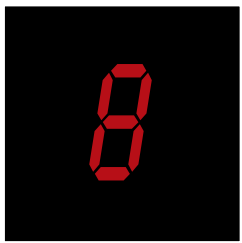
5 Nothing Displayed in Window?

Sleep mode, press ON/OFF output button to wake up or cycle the master ON/OFF switch.



7 Short Battery

If battery is sulphated, it will be shorted and will need replacing.



6 Solid Red “8”, Alarm: Multiple Beeps

Protection circuit activated.
Short circuit, thermal
protection or reverse polarity
detected retry in 5 minutes.



8 Immediate Red “8” when unit is connected to battery

Unit is not activating. Contact
customer care at 1-800-526-8817.

TROUBLESHOOTING

1. **Start•All® CHARGED?**

Make sure that the Start•All® has at least 30% charge. The 120-240VAC wall charger takes approx. 4 hours, the 12V car charger takes approx. 6 hours. Recharge every 6 months.

2. **Start•All® ON/OFF**

Ensure that the MAIN ON/OFF power switch is in the “ON” position.

3. **ACTIVATION LED INDICATOR “8”s?**

Is the LED blinking Red to Green or is it a solid Red or Green? Solid Green “8” is a correct connection and a solid Red “8” is an error. With a Red “8” no current will flow to dead battery.

4. **CABLE ALARM?**

A Red “8” and beeping sound is an error code. See LED indicator guide.

5. **KEY POSITION?**

Ensure that the ignition key/button is turned to first position to detect connection. This will help activate the unit.

6. **CAN'T GET THE Start•All® TO CONNECT?**

Can't get a solid Green “8”? Turn on lights or the radio to get the Start•All® to sense a current load and activate.

7. CLEAN TERMINALS?

Make sure that the terminals are free of plastic caps, paint, rust, dirt, or grease that can hinder the connection.

8. Start•All® PORT?

Does your truck have a jump start port connection? If so, use the starting port before attempting to connect directly to the batteries.

9. SHORT BATTERY?

If the battery is sulphated, it will be shorted and will need to be replaced. Sulphated batteries cannot be charged or jump started.

10. DEAD?

If the lead acid battery is completely dead; the device will not activate and the battery must be replaced. A battery is typically dead when depleted below 5V.


Important note:

The Start•All® is designed to instantaneously start a vehicle battery in a low voltage condition (5V and up). The Start•All® is not designed to be an energy transfer device for long durations. Vehicles with other mechanical issues (i.e. bad starters, no fuel, engine seizure) will likely prevent successful starts with the Start•All®.



We Start Engines®



 **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. www.p65warnings.ca.gov.

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844-VAN-SERV | start-all.com

