



START-ALL 
JUMP-PACK

10,000A • 133200 joules^{SS} • 12V

**Smart Lithium-Ion Jump Starter
and Power Bank**

NOTE: Read this manual before installing, operating or using this equipment. Failure to comply with the operation and maintenance instructions in the manual could result in bodily injury and/or damage.

THANK YOU

Thank you for your purchase of the Vanair® Start-All® Jump-Pack 10,000A. We thank you for doing business with us and look forward to working with you again.

This publication contains the latest information available at the time of preparation. Every effort has been made to ensure accuracy. Vanair®, a Lincoln Electric Company, reserves the right to make design change modifications or improvements without prior notification.

Making unauthorized modifications to the system components **WILL VOID THE WARRANTY!** Always contact Vanair® before beginning any changes to the Start-All® Jump-Pack.

What's inside the case

The Start-All® Jump-Pack is equipped with everything you need to safely operate and charge your unit at work, home and on the road. This unit is designed to jump-start a vehicle with a 12VDC electrical system, it includes connectors required to charge most phones, laptops, electronic accessories and digital cameras.

Included:

- (1) 100-240VAC Wall Charger (to charge your unit)
- (1) 12VDC Car Charger (to charge your unit)
- (1) Safety strap is also included to help protect the unit and the operator
- 3-in-1 Mobile Adapter Cord
- USB-C Mobile Adapter
- Carrying Case
- User Manual
- Quickstart Guide

The Start-All® Jump-Pack is a professional piece of equipment and should always be secured to your vehicle when in use. The Start-All® Jump-Pack carrying case helps keep all your accessories in one place and protect your investment when not in use.

WARNING!

Read the entire manual before attempting to use this product.

INFORMATION PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

DANGER



Fire. The product is an electrical device that emits heat and is capable of causing burns. DO NOT cover the product. DO NOT smoke or use any source of electrical spark or fire when operating the product. Keep product away from combustible materials. **In an unlikely event of a fire, use sand or a Class ABC or BC fire extinguisher.**



Electrical Shock. The product is an electrical device that can shock and cause serious injury. DO NOT cut power cords. DO NOT submerge in water or get wet.



Explosion. Unmonitored, incompatible, or damaged batteries can explode if used with the product. DO NOT leave the product unattended while in use. DO NOT attempt to jump-start a damaged or frozen battery. Use product only with batteries of recommended voltage. Operate product in well-ventilated areas.



Personal Precaution. Only use the product as intended. Someone should be within the range of your voice or close enough to come to your aid in case of an emergency. Have a supply of clean water and soap nearby in the case of battery acid contamination. Wear complete eye protection and protective clothing while working near a battery. Always wash hands after handling batteries and related materials. DO NOT handle or wear any metal objects when working with batteries, including; tools, watches, or jewelry. If metal is dropped onto the battery, it may spark or create a short circuit resulting in electrical shock, fire, or explosion, which may result in injury, death, or property damage.



Eye Injury. Wear eye protection when operating the product. Batteries can explode and cause flying debris. Battery acid can cause eye and skin irritation. In the case of contamination of eyes or skin, flush the affected area with running clean water and contact poison control immediately.



Location. Prevent battery acid from coming in contact with the product. DO NOT operate the product in a closed-in area or an area with restricted ventilation. DO NOT set a battery on top of this product. Position cable leads to avoid accidental damage by moving vehicle parts (including hoods and doors), moving engine parts (including fan blades, belts, and pulleys), or what could become a hazard that may cause injury or death.



Explosive Gases. Working in the vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal battery operation. To reduce the risk of battery explosion, follow all safety information instructions and those published by the battery manufacturer and manufacturer of any equipment intended to be

used in the vicinity of the battery. Review cautionary markings on these products.



Explosive Atmospheres. Obey all signs and instructions. DO NOT operate the product in any area with a potentially explosive atmosphere, including fueling areas or areas which contain chemicals or particles such as grain, dust, or metal powders.

High-Consequence Activities. This product is not intended for use where the failure of the product could lead to injury, death, or severe environmental damage.

Medical Conditions. If you have any medical conditions that you believe could be affected by the product, including but not limited to; seizures, blackouts, eye strain, or headaches, consult your physician prior to the use of the product. The use of the integrated high powered flashlight contains a light sensitivity hazard. Use of the flashing LED flashlight mode may cause seizures in persons with photosensitive epilepsy, which may result in serious injury or death.



Choking Hazard. Accessories may present a choking hazard to children. DO NOT leave children unattended with the product or any accessory. The product is not a toy.

Environmental Impact. Improper disposal of batteries can pose fire, injury, and environmental hazards. Always follow all warnings, instructions, and safety protocols before disposing of any batteries. The built-in lithium-ion battery in the product should be replaced only by Vanair and must be recycled or disposed of separately from household waste. **DO NOT** attempt to replace the battery yourself and **DO NOT** handle a damaged or leaking lithium-ion battery. Take precautions when a battery shows signs of fault, such as swelling, leaking, unusual odors, excessive heat, or visible damage. If the battery is demonstrating an abnormal occurrence, immediately stop use and contact Vanair®.

Do not place lithium-ion batteries in the garbage or the general recycling bin.

Disposal of batteries in household trash is unlawful under state and federal environmental laws and regulations.. Always take used batteries to your local battery recycling center or call 1-800-8-BATTERY. Recyclers are responsible for complying with all applicable laws and regulations. Vanair® assumes no liability for injuries or property damage resulting from the recycling of battery packs. For questions regarding proper recycling of lithium-ion batteries, please contact your local authorities or a certified battery recycling service provider.

Light. Staring directly into the light beam or shine of the flashlight may result in permanent eye injury. The product is equipped with a high output LED array that emits a powerful beam at the highest setting.

Radio Frequency Interference (RFI). The product is designed, tested, and manufactured to comply with regulations governing radio frequency emissions. Such emissions from the product can negatively affect the operation of other electronic equipment, causing them to malfunction.

Important Notes Regarding RFI

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Proposition 65



WARNING: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code §25249.5 et seq.)



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

IMPORTANT SAFETY INSTRUCTIONS



WARNING: When using this product, basic precautions should always be followed:

- Read all instructions before using the product.**
- This product is intended for use on vehicles with 12V DC BATTERY SYSTEMS ONLY. DO NOT connect the jumper cables to any vehicle with more than a 12V DC system. Connecting to 18V, 24V or higher voltage systems could result in fire and/or serious injury or death.
- This product is compatible with 12V DC lead-acid batteries. DO NOT attempt to use the product with any other type of battery. Jump-starting other battery chemistries may result in injury, death, or property damage. Contact the battery manufacturer

prior to attempting to jump-start the battery. DO NOT jump-start a battery if you are unsure of the specific chemistry or voltage of the battery.

- To reduce risk of Injury, close supervision is necessary when the product is near children.
- Use of attachment not sold alongside powerpack may result in risk of fire, electric shock, or injury to person.
- To reduce risk of damage to the electrical plug and cord, pull the plug rather than the cord when disconnecting the power pack.
- DO NOT put fingers or hands into the product.
- DO NOT use if the Start-All® Jump-Pack or battery is damaged. Damage may include cracks to the casing, cables, power cords, clamps or ports. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- DO NOT operate the Start-All® Jump-Pack with a damaged cord or plug, or a damaged output cable.
- DO NOT operate the Start-All® Jump-Pack if it becomes wet. NOTE: If the unit is already operating and becomes wet, disconnect it from the vehicle battery and discontinue use.



WARNING - RISK OF EXPLOSIVE GASES

1. WORKING IN VICINITY OF A LEAD ACID BATTERY IS DANGEROUS. LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF THE UTMOST

IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE (THE BOOSTER FUNCTION OF) THE POWER PACK.

2. To reduce risk of battery explosion follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary markings on these products and on engine.

K. PERSONAL PRECAUTIONS

1. Consider having someone close enough by to come to your aid when you work near a lead acid battery.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
4. Avoid contact with any liquid ejected from the battery. Liquid ejected from the battery may cause irritation or burns. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flush eye with running cold water for at least 10 minutes and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in the vicinity of a battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short circuit battery or other electrical part that may cause injury.

7. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead acid battery can produce a short circuit current high enough to weld a ring or the like to metal, causing a severe burn.

L. CHARGING PRECAUTIONS

1. Charging improperly or at temperatures outside the specified range can damage the battery and increase the risk of fire. When charging the internal battery, work in a well-ventilated area and **DO NOT** restrict ventilation in any way.
2. **DO NOT** leave the Start-All® Jump-Pack unattended while charging the unit.
3. **DO NOT** charge the Start-All® Jump-Pack on any combustible material such as wood, paper, carpet, etc.
4. **DO NOT** attempt to charge the Start-All® Jump-Pack with any other third-party AC wall charger or 12V DC port charger. Use only the supplied 100-240V AC wall charger or 12V DC vehicle charger. Failure to do so may cause an overheat condition which may lead to possible fire and property damage including injury and death.
5. **DO NOT** attempt to start a vehicle while charging the Start-All® Jump-Pack.

- M. **DO NOT** connect the jumper cables to any vehicle with more than a 12V DC system. Connecting to 18V, 24V or higher voltage systems could result in fire and/or serious injury or death.

- N. **DO NOT** attempt to connect a Start-All® Jump-Pack to anything

other than a 12V DC battery terminal or dedicated jump lug. Failure to do so could cause permanent damage to the vehicle or jump-starter.

- O. **DO NOT** short circuit the battery terminals or jump cables.
- P. **DO NOT** leave the Start-All® Jump-Pack unattended while connected to the vehicle battery or battery posts. NOTE: The Start-All® Jump-Pack is not a trickle charger type device and should not be used as such.
- Q. **DO NOT** use the Start-All® Jump-Pack if it becomes excessively hot, emits an odor, is deformed, cut, is experiencing or demonstrating an abnormal occurrence. DISCONTINUE USE IMMEDIATELY and move unit to a safe location away from ALL potential flammable and combustible materials and contact Vanair.
- R. **DO NOT** crank the vehicle for more than 15 seconds when attempting to start utilizing the Start-All® Jump-Pack. Wait 90 seconds between cranking attempts. Exceeding 15 seconds on a crank attempt or failing to wait 90 seconds may cause damage to the vehicle starter and or the start all jump pack.
- S. **DO NOT** attempt more than 5 consecutive start attempts within a 15-minute period. Attempting more than the recommended cranks can lead to an overheat condition and may lead to possible fire and property damage as well as injury and death.
- T. **DO NOT** expose the Start-All® Jump-Pack to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.



U. **WARNING – RISK OF ELECTRIC SHOCK**

- DO NOT** use power pack to supply power tools to cut or access to live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.
- V. **DO NOT** attempt to use the Start-All® Jump-Pack in any fashion other than indicated within this manual. Failure to do so could cause permanent damage, disfigurement, and/or death. Always wear proper Personal Protection Equipment (PPE) when using this device.
- W. **DO NOT** attempt to disassemble, alter, modify, or repair any part of the product. Incorrect disassembly and reassembly may result in a risk of fire, electric shock, or may cause injury, death, or damage to property. Contact Vanair® to direct service or repair with a qualified service person.

SAVE THESE INSTRUCTIONS



PRODUCT FEATURES & CAPABILITIES

The Start-All® Jump-Pack is a professional grade jump-starter. The Start-All® Jump-Pack is best used as an instantaneous vehicle starting device. Allowing the Start-All® Jump-Pack to sit for long durations of time connected to a vehicle's under-charged battery will greatly reduce the effectiveness and is not best practice.

What Can It Do?

The Start-All® Jump-Pack is engineered to jump-start the largest 12V DC diesel engines on the road, up to 16 liters. This device can also be used on smaller 12V DC gasoline or diesel vehicles. Powering your electronics is a breeze with the large capacity 236.8 Wh lithium-ion battery. You can charge all your devices through the USB, USB-C, or the DC Aux ports. Most mobile devices, smart phones, portable gaming systems, MP3/MP4 players and even CPAP machines can be charged with the included accessories. You don't have to worry about dead batteries again when you have a Start-All® Jump-Pack.

Vehicle Jump-Starting

The Start-All® Jump-Pack jump-starts diesel and gasoline powered engines up to 16.0 liters. Whether driving your semi or the family 4 cylinder car, Start-All® Jump-Pack has you covered.

Electronics Charging

Turn the MAIN ON/OFF switch to the "ON" position. For charging electronics like smart phones using the USB ports or USB-C port, simply insert your OEM cord or utilize the 3-in-1 USB cable provided.

Power When You Need It

The Start-All® Jump-Pack can charge a smart watch with a 205 mAh battery 312 times, a music player with a 525 mAh battery 121 times, a camera with a 1650 mAh battery 38 times, a wireless Bluetooth speaker with a 2600 mAh battery 24 times, a mobile phone with a 3000 mAh battery 21 times, an e-book reader with a 4750 mAh battery 15 times, and a tablet with a 10307 mAh battery 6 times.

Safety Strap

The unit should be secured to the vehicle with the supplied safety strap before use. Also follow the manufacturer's safety precautions when working with your vehicle's batteries.

Charging Accessories

The Start-All® Jump-Pack is equipped with a 100-240V AC Power Wall Charger and a 12V DC port charger with 2A 18V DC output to provide optimal charging convenience at home, work, or on the road. When your Start-All® Jump-Pack is charged, you will not only be secure in your ability to jump-start your vehicle, but you can put its 236.8 Watt-hours to work to charge or power many of your electronic accessories, including operating a CPAP machine.

Powering Options

The Start-All® Jump-Pack is equipped with two USB ports, one USB-C port, and a high quality braided 3-in-1 adapter cord for USB to lightning, USB-C, or Micro USB connections; offering flexibility for most phones, tablets and mobile devices. The Start-All® Jump-Pack can power additional standard USB powered accessories (not included).

Shipping Information:

Shipping Dimensions: 13.69 in (H) X 5.63 in (W) X 18.00 in (L)

Shipping Weight: 16.6 lb (7.52 kg)

Technical Specifications

Unit Dimensions: 10.94 in (H) X 4.35 in (W) X 10.77 in (L)

Unit Weight: 11.8 lb (5.34 kg)

Battery type: Lithium-Ion Cobalt

Capacity: 236.8 Watt-hours (236,800mWh)

Peak Current: 10,000A (<200ms)

Output voltage: 12-16VDC

Output Ports:

- Jumper cables - integrated
- (2) DC Auxiliary power ports
- (2) USB - 5VDC 2.1A
- (1) USB-C - PD 3.0, 30W

Light: 500 Lumen LED emergency light with high/low and SOS emergency strobe functions.

Input Charging Port: 5.5mm - 18VDC 2A

Storage Temp: 40° F to 75° F (4° C to 24° C)

Estimated lifetime jump-starts: up to 5000 starts

AC Recharging: 2A, 18VDC wall charger. Full charge takes approximately 8 hours.

HANDLING & STORAGE INSTRUCTIONS

Handling: Handle product with care as the product can become damaged if impacted. Store indoors and only operate the product in dry locations.

- **DO NOT** use a damaged product, including, but not limited to cracks to the casing or damaged cables.
- **DO NOT** use the product with a damaged power cord.
- **DO NOT** handle the product or any electrical components near any liquid. Humidity and liquids may damage the product.
- **DO NOT** operate the product if it becomes wet. If the product is already operating and becomes wet, disconnect it from the battery and discontinue use immediately.
- **DO NOT** disconnect the product by pulling on the cables.

Storage: Store your product in a dry, indoors location. The optimal storage temperature is 40° F to 75° F (4° C to 24° C). When the Start-All® Jump-Pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together can cause burns or a fire.

- **DO NOT** expose the Start-All® Jump-Pack to excessive temperature. Extreme temperatures may damage the product.
- **DO NOT** use or store your product in areas with high concentrations of dust or airborne materials. Store your product on flat, secure surfaces so it is not prone to falling.

- **DO NOT** use the product with a low or dead battery.

NOTE: To maximize battery capacity and capability while protecting the battery from damage, the Start-All® Jump-Pack **MUST BE STORED at a 40% or higher battery charge level and CHARGED AT LEAST once every 6 months.** Failure to properly store the product may result in damage and void the warranty.

Charging: The Start-All® Jump-Pack must be charged in a dry indoor location.

Wet Conditions: When operating outdoors, take proper and appropriate precautions to protect jump packs from wet conditions including but not limited to rain, sleet, and snow.

OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

Before operating the Start-All® Jump-Pack, please read the entire instruction manual to understand hazards and safety instructions associated with this product. Review all cautionary markings on this product and in this manual and wear required PPE while operating the product.

There are variables such as extreme outdoor temperatures and truck mechanical issues (bad starter, no fuel, or other engine problems) that may limit the ability of Start-All® Jump-Pack to start an engine. The Start-All® Jump-Pack is designed to instantaneously start a vehicle battery in a low voltage condition of 5V DC or higher.

Your Start-All® Jump-Pack is fitted with built-in safety protections. These safety protections monitor and control the unit. To ensure product longevity, activation is limited to 45-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.

Operating Temperature. The unit can be operated in temperatures between -4° F and 140° F (-20° C and 60° C).

- **DO NOT** operate outside of this temperature range.

Battery Charging. The Start-All® Jump-Pack is supplied with a 100-240V AC wall charger and 12V DC vehicle charger. Make sure the charging cable is securely plugged into the Start-All® Jump-Pack charging port before plugging it into a 12V DC accessory port or AC outlet.

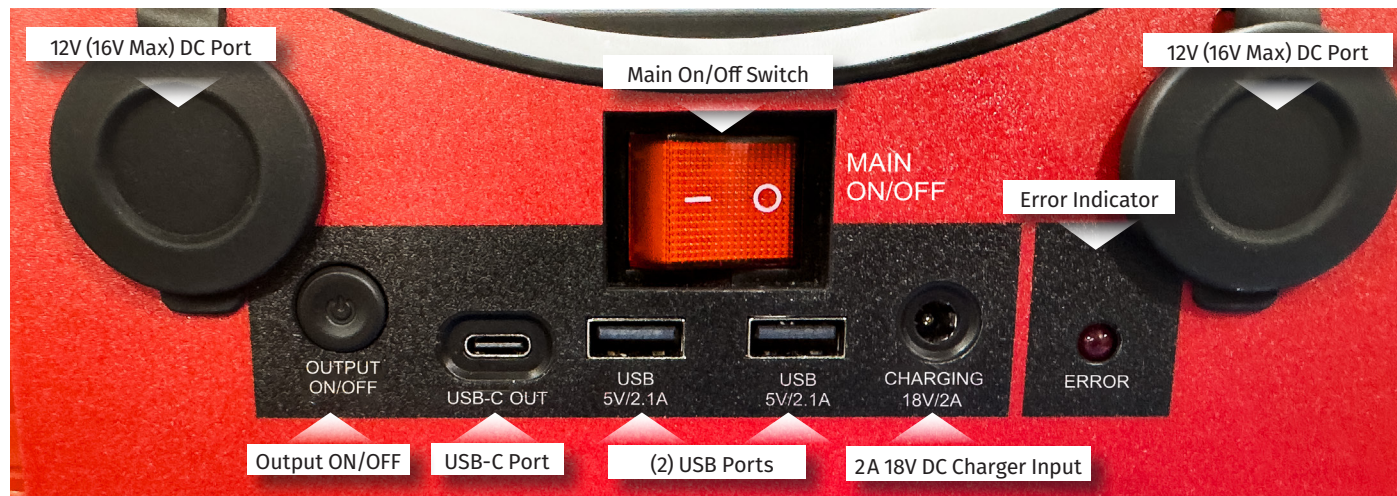
- **DO NOT** leave the Start-All® Jump-Pack unattended while charging.
- **DO NOT** charge the unit on any material that is flammable, such as wood, carpet, etc.
- **DO NOT** use the Start-All® Jump-Pack to start a vehicle while this unit is charging.
- **DO NOT** use third party charging cables. Charge the Start-All® Jump-Pack only with Vanair® supplied charging cables.
- **DO NOT** use the Start-All® Jump-Pack charging cables with any other third-party devices. The use of a 3rd party charging cord may cause overheating conditions and may lead to possible fire and property damage.

NOTE: Fully charge the unit immediately upon initial receipt and fully charge unit after each use.

Accessories. This product is only approved for use with Vanair® accessories. Vanair® is not responsible for user safety or damage when using accessories not approved by Vanair®.

KEY CONTROLS

CONTROL PANEL



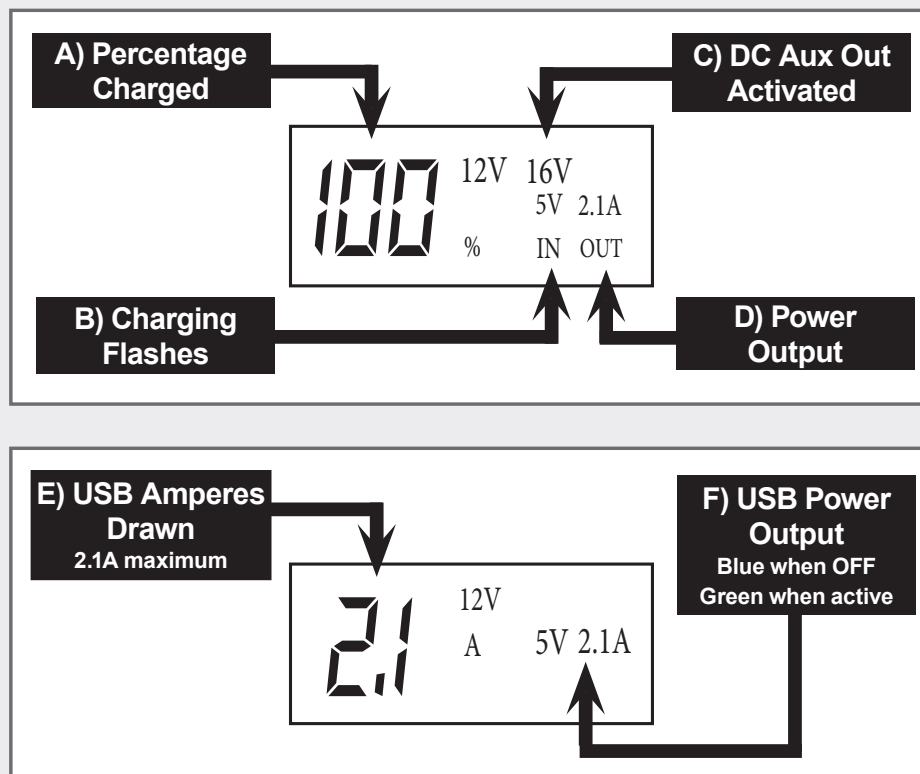
- **MAIN ON/OFF Switch.** Illuminates when the unit is on.
NOTE: The LED display and ON/OFF switch will time out after 5 minutes. To reactivate, toggle the MAIN ON/OFF switch and depress the OUTPUT ON/OFF switch.
- **(2) 12V (16V Max) DC Ports for 12V DC Accessories.**
Press and hold the OUTPUT ON/OFF button until it beeps and the “16V” indicator lights on the LED display.
- **Error Indicator.** A solid red error light indicates an error that needs to be addressed. NOTE: This indicator and Red “E” followed by a number on LED display are lit simultaneously.
- **Output ON/OFF.** Turns power on/off to auxiliary output ports.
- **USB-C PD 3.0 (30W).** Available output to operate or charge USB-C capable accessories.
- **(2) USB Ports (5V / 2.1A).** Available to operate or charges 5VDC USB accessories (2.1A max).
- **2A 18V DC Charger Input.** Charge your Start-All® Jump-Pack via the supplied AC wall charger or DC vehicle charger.

BACK OF UNIT

- To use the light, press and hold the button until it turns on. Press the button again to cycle through the modes.



LED DISPLAY (LOCATED ON TOP OF UNIT)



LED DISPLAY

A) PERCENTAGE CHARGED. Displays the Start-All® Jump-Pack's percentage charge, Error Codes, or when a USB port is first used and the USB amperes draw is displayed.

B) CHARGING FLASHES. The "IN" indicator flashes whenever the unit is being charged by the 2A 18VDC 100-240VAC wall charger or the 12VDC port charger.

C) DC AUXILIARY. DC Auxiliary Output Activated. Displays when a DC auxiliary port(s) is activated and the OUTPUT switch is ON.

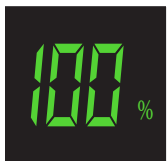
D) POWER OUTPUT. Displays "OUT" when you are using the unit to power an accessory via the 12V DC charger ports.

E) USB AMPERES DRAWN. 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 2.1A.

F) USB POWER OUTPUT. The "5V 2.1A" display 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.

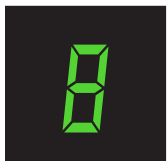
LED INDICATORS



Normal Screen

Normal ON/OFF screen.

Displays the battery charge percentage. Zero to 64% will display in red. 65% to 100% will display in green.



Start-All® Jump-Pack Activated and Connected

Indicates the vehicle is ready to be jump-started.



Search Mode

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



Red “IN” Symbol Flashing

The “IN” will turn solid when charging is complete.



Nothing Displayed in Window?

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

OPERATING PROCEDURE

1. Personal Safety & Battery Preparation

- A. Wear required PPE (complete eye protection and protective clothing) when jump-starting any vehicle. Remove personal metal items such as watches, rings, and bracelets when working with a lead-acid battery as it may cause personal injury.
- B. Please refer to the owner's manual for the vehicle for proper jump-start connection location and procedure.
- C. Identify the positive (RED) and negative (BLACK) terminals of the battery before connecting the clamps. Make sure battery terminals are clean and free of debris for safe connection.

2. Start-All® Jump-Pack Preparation

- A. Secure the Start-All® Jump-Pack by inserting the safety strap through the handle and securely attaching it to the vehicle using the included carabiner clip.
- B. Place the Start-All® Jump-Pack on a flat surface and turn the MAIN ON/OFF to the "ON" position, ensuring that the Start-All® Jump-Pack has at least a 65% charge for Heavy vehicles or a 50% charge level for light vehicles.

3. Make the Connection

- A. Disconnect the RED clamp (positive) and the BLACK (negative) clamp from the Start-All® Jump-Pack docking station. NOTE: LED should be flashing RED and GREEN "8"s (indicates unit is searching for a battery).
- B. If your vehicle is equipped with jump posts, connect the positive (+) RED clamp to the positive (+) jump post. Connect the negative (-) BLACK clamp to the vehicle ground or grounding lug. Otherwise, connections will be made on the battery.
- C. If connections are made on the battery, connect the positive RED clamp to the positive (+) RED terminal on the battery first, then connect the negative (-) BLACK clamp 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". Once the "8" is a solid Green, you must attempt to start the vehicle within 45 seconds or the Start-All® Jump-Pack will time out. If a time out occurs, you must turn off the unit and repeat the process.

4. Start the Vehicle

- A. Ensure a secure and proper connection. If properly connected, the unit will display a Green “8” on the LED. If the LED displays a Red “E” followed by a number, then there is an error that needs to be addressed. Please refer the “Error Code Indicators” section under TROUBLESHOOTING & MAINTENANCE for guidance.
- B. Turn the ignition key to the ON position and start the engine.
- C. **DO NOT** crank a dead vehicle for more than fifteen (15) seconds. Failure to do so will cause damage to the vehicle’s starter and/or the Start-All® Jump-Pack. Repeated attempts may lead to possible fire and/or property damage. **NOTE:** If an E5 error is triggered, please refer the “Error Code Indicators” section under TROUBLESHOOTING & MAINTENANCE for guidance.
- D. Once the vehicle is started, turn off the unit and disconnect the BLACK negative (-) clamp first from the vehicle, and then disconnect the RED positive (+) clamp and reattach the clamps to the docking station. Be sure to turn off the unit.

TROUBLESHOOTING & MAINTENANCE

DO NOT attempt to disassemble, alter, modify, or repair any part of the product. Incorrect disassembly and reassembly may result in a risk of fire, electric shock, or may cause injury, death, or damage to property. Contact Vanair® to direct service or repair with a qualified service person.

Cleaning. Power off the product before attempting any upkeep or cleaning. Make sure that the terminals are free of plastic caps, paint, rust, dirt, or grease that can hinder the connection. Clean and dry product immediately if it encounters liquid or any type of contaminant by using a soft, lint-free (microfiber) cloth. Avoid getting moisture in any openings.

ERROR CODE INDICATORS



E0 - Low Battery Voltage

Low Battery Voltage protection Activated. If the Start-All® Jump-Pack is below 35% when turned on and connected to a vehicle, fully recharge the unit then try again. If E0 is displayed while charging the Start-All® Jump-Pack, the battery is below a safe voltage to charge. Disconnect the charger and contact customer care 844-VAN-SERV.



E1 - Reverse Polarity

Reverse polarity protection activated. Turn off the Start-All® Jump-Pack. Check the clamp connections. Make sure the red clamp goes to positive and the black clamp goes to negative. Then try again.



E2 - Timed Out

The Start-All® Jump-Pack will time out after 45 seconds when connected to a vehicle and is activated. Turn off the Start-All® Jump-Pack and then back on.



E3 - High Temperature

High temperature protection activated. Turn off the Start-All® Jump-Pack and wait for it to cool down before using again.



E4 - Low Temperature

The Start-All® Jump-Pack is below optimal operating temperature. Performance may be decreased. If unable to start vehicle, warm up the Start-All® Jump-Pack and try again.



E5 - High Current

High current protection activated. The vehicle's power requirements may exceed safe operating threshold of the Start-All® Jump-Pack or three high current vehicle start attempts detected within a five minute span. Wait 15 minutes before using again.



Low Current

Low current protection activated. Turn off the Start-All® Jump-Pack. Check the clamp connection on the battery, make sure it is clean and free of paint or corrosion, then try again. If this error persists, turn on the vehicles headlights or blower fan then try again.



Short Circuit

Short circuit protection activated. Turn off the Start-All® Jump-Pack, check the clamp connections to make sure that there is not a short circuit, then try again.



Unit is Not Activating

Contact customer care 844-VAN-SERV.



High Battery Voltage

The battery is above normal maximum voltage. Do not attempt to use. Contact customer care at 844-VAN-SERV.

TROUBLESHOOTING GUIDE

1. Is the Start-All® Jump-Pack Charged?

- For heavy trucks, make sure the unit has at least 65% battery charge. For light vehicles, make sure the unit has at least 50% charge. If the Start-All® Jump-Pack is below 35%, it will cause an E0 error to be displayed.

2. Start-All® Jump-Pack MAIN 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” indicates a correct connection and a solid red “E” followed by a number is an error. No current will flow to the battery when there is an error, except for “E4” (Low Temperature).

4. Alternating Red & Green “8”s

- The unit will flash red and green 8's while it is searching for a battery to connect to. If the amps are too low or the connection is poor, the unit may not connect. Make sure that the connection is clean and put the vehicle ignition switch into the Accessory (ACC) position with the headlights or radio turned on.

5. Cable Alarm?

- Is there a beeping indicator alarm during connection? Red “E” followed by a number and beeping, is an error code. Immediately disconnect the clamps, then refer to the Error Code Indicator section.

6. Key Position?

- Put the ignition switch into the Accessory (ACC) position to help activate the unit.

7. Can't Get the Start-All® Jump-Pack to Connect?

- If the Start-All® Jump-Pack does not show a green “8” when connected to a dead vehicle:
 - Make sure to turn on the Start-All® Jump-Pack before connecting to the dead vehicle
 - Verify the clamps are connected properly
 - Turn on lights or the radio
 - Verify that the dead vehicle is a 12V DC system
 - Verify that the Start-All® Jump-Pack is adequately charged

If those steps do not resolve the problem, you may manually activate the system utilizing the following procedure:

NOTE: MANUAL ACTIVATION DISABLES SOME SAFETY FEATURES.

MANUAL ACTIVATION FOR LOW VOLTAGE BATTERIES

The Start-All® Jump-Pack is designed to jump-start 12V DC lead-acid batteries at very low voltage. If your battery is too low or unable to take a charge, the unit will display alternating red and green “8’s”. This is an indication that the Start-All® Jump-Pack cannot detect a battery. If you need to jump-start a battery in this condition, turn on the headlights, blower, and/or another accessory. If the Start-All® Jump-Pack still does not activate, the Manual Activation feature allows the user to force “ON” the jump-start function.



WARNING! USE MANUAL ACTIVATION MODE WITH EXTREME CARE.

The Start-All® Jump-Pack is designed to jump-start 12V DC lead-acid batteries at very low voltage. If your battery is too low or unable to take a charge, the unit will display alternating red and green “8’s”. This is an indication that the Start-All® Jump-Pack cannot detect a battery. If you need to jump-start a battery in this condition, turn on the headlights, blower, and/or another accessory. If the Start-All® Jump-Pack still does not activate, the Manual Activation feature allows to force “ON” the jump-start function.



WARNING! TURN OFF THE START-ALL® JUMP-PACK BEFORE DISCONNECTING THE BATTERY CLAMPS.

Turning off the unit before disconnecting the battery clamps will ensure your safety. Remember both the Spark Proof and Reverse Polarity Protection features are disabled in Manual Activation.

1. AUTOMATIC TRANSMISSION?

- For automatic transmissions only, make sure the truck is in the neutral/park position.

2. MANUAL DISCONNECT SWITCH

- (Truck option) Turn the vehicle's manual disconnect switch “ON”. Location of disconnect switch varies by truck manufacturer.

3. CLEAN TERMINALS?

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

4. JUMP-START PORT?

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

5. BATTERY WILL NOT HOLD A CHARGE?

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

6. DEAD?

- If the lead acid battery is completely dead, it will show voltage below 5V DC. In this situation, the battery is fully depleted and will not activate. The battery will need to be replaced.

Warranty for the Start-All® Jump-Pack is one-year from date of retail purchase. Start-All® Jump-Pack MUST be registered online at:

<https://vanair.com/lifetime-warranty-product-registration/#start-all-jump-pack-registration>

Customer must provide dated proof of purchase to be eligible for warranty. Contact the manufacturer directly for instructions at 800-526-8817.



START-ALL 
JUMP-PACK
10,000A • 133200 joules^{SS} • 12V

Warranty Statement

Start-All® Jump-Packs are warranted from the date of purchase at retail against failure due to defective material and/or workmanship for a period of one (1) year. For full terms and conditions, visit Vanair.com.



REGISTER YOUR PRODUCT HERE

<https://vanair.com/lifetime-warranty-product-registration/#start-all-jump-pack-registration>

All returns must receive a Return Material Authorization (RMA) number from the factory and be returned directly postage or freight prepaid. See RMA for instructions regarding the shipping of products containing Lithium Batteries.

Start-All® Jump-Packs contain a fully regulated lithium-ion battery as classified by UN3481. **DO NOT SHIP LITHIUM BATTERIES VIA AIR FREIGHT.** All US Department of Transportation regulations regarding the shipment of lithium-ion batteries must be followed.



By VANAIR.

We Start Engines®

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