![ATD PRO LITHIUM JUMPSTART logo]

ATD-5900 Manual

Specifications

Weight	7.71 lbs. (3.5Kg)
Product Size	9.25" x 9.25" x 7.5" (235 x 235 x 190mm)
Functions	700A Cranking Amps
	12V DC Output (with 15A overload protection)
	High Intensity LED
	USB - 5VDC, 2.1A
Battery	Lithium Iron
Charging	12V/1A Charger
Accessories	Cigarette socket, Charger, Instruction Manual

1. Features

- Used to start 12V vehicles without the use of other vehicles or AC power supplies.
- Reverse connection alarm, short circuit alarm, low voltage alarm and over-temperature alarm.
- 12V DC cigarette power outlet with overload protection provides power for appliances designed to plug into vehicles 12V power source.
- High intensity LED emergency light can be used for emergency repairs or other emergency situations.
- Li-Fe (Lithium-Iron) Battery with more powerful performance needs no attention other than charging.
- 12V/1A adaptor with automatic overcharge protection
- 5V, 2.1A USB, provides power for small electrical appliances (MP3 player, etc.)
- LED shows the internal battery status
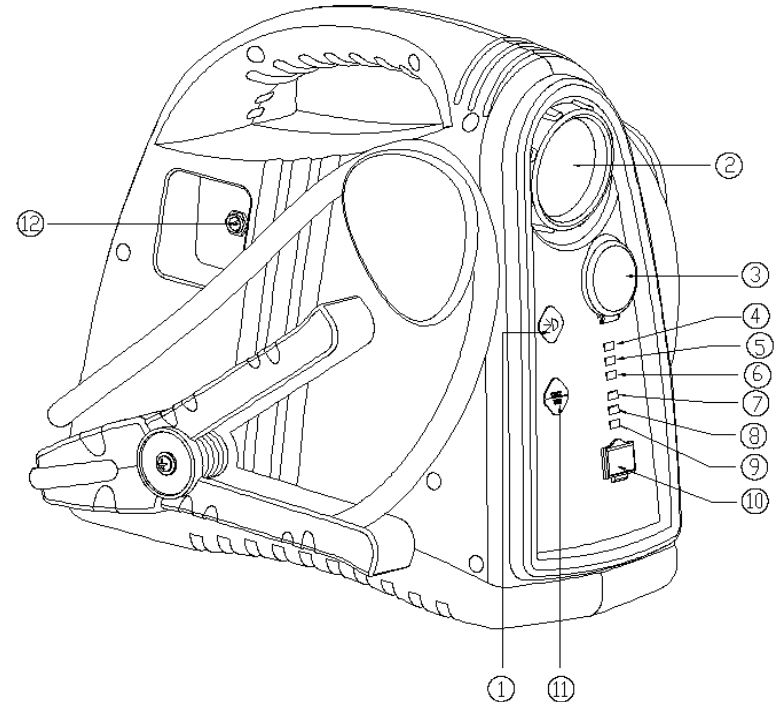- High strength Polypropylene housing

2. <mark>WARNING</mark> ⚠

Before using the jumpstart, read and follow the instructions carefully. Also pay close attention to the cautionary statements on the vehicles battery and any other equipment you be using.

As a safety measure, there is NO VOLTAGE present at the clamp ends. The ATD-5900 automatically detects when it is hooked up correctly to a battery, then and only then will it deliver the voltage to the clamps.

- Do not smoke, use matches, use a cigarette lighter, or allow a spark or flame near the battery.

- Do not allow metal to come in contact with the battery poles. It may spark or short-circuit the battery and cause an explosion.

- Remove any and ALL jewelry and watches when working with a Li-Fe battery.

- Stop using the jumpstart when you hear the alarm or when indicating LED (6) is on. The reason may be from:

1) The voltage is less than 8V - Charge the jumpstart to prevent battery failure.
2) The temperature is higher than 140˚F (60˚C) - Cool the jumpstart to at least 104˚F (40˚C).
3) The jumpstart is connected backwards, incorrectly connected or short connected. Correctly connect the clamps.

3. Pro-Lithium Jumpstart Features:

1. Emergency LED light Switch
2. Emergency LED light
3. 12V output
4. Full charge LED
5. 50% capacity LED
6. Charge/Low voltage alarm/Over-temp indicator
7. Clamp correct connection indicator
8. Reverse connection indicator
9. Incorrect connection indicator
10. USB 5V DC output outlet
11. Test/USB output Switch
12. Charger input outlet

4. USING THE "BOOSTER" FUNCTION

Ensure that you are using this on a 12 VOLT SYSTEM ONLY, otherwise the battery could explode. Please strictly follow the following steps; otherwise, it could cause damage to the jumpstart, the vehicle or personal injury or death

1. Turn the vehicle ignition and subsidiary equipment off.
2. **DO NOT** touch the red positive (+) clamp against the black negative (-) clamp.
3. Ensure the area is well ventilated.
4. Connect the red positive (+) clamp to the battery positive (+) terminal first. Be sure that the clamp does not contact any moving parts or fuel lines.
5. Connect the black negative (-) clamp to a suitable ground on the vehicle chassis.
6. If there is a reverse connection between positive and negative poles, the jumpstart emits an audible alarm the red LED (8) will be on, indicating the reverse connection. Please adjust the positive and negative polarity.
7. If connected incorrectly to a vehicle that uses a 24v system, the jumpstart emits an audible alarm the red LED (9) will be on, indicating the incorrect connection; this jumpstart will not work in this situation. **Only use on vehicles with a 12v system.**
8. If connected incorrectly to a vehicle that has a 6v system, it won't send out any alarm information. Attempting to start your 6v system with this jumpstart will cause damage to the jumpstart and the vehicle. **Only use on vehicles with a 12v system**.
9. With the correct connection, LED (7) will be on, now you can start the car. If the battery (internal and external) voltage is less than 8v, it will shut off automatically.
10. Do not try to start the vehicle for more than 5 seconds at a time.
11. If the engine does not start properly, wait at least 3 minutes before attempting to restart.
12. After the vehicles engine starts, disconnect the black (-) clamp first, and then disconnect the red (+) clamp. Re-wrap the cables after each use.
13. After use, always recharge the jumpstarts battery fully.
14. Frequently test the battery's voltage and recharge it when (5) or (6) LED is on.
15. Low temperature start performance of the Li-Fe battery will be affected at temperatures lower than -10˚C (14˚F) After a few attempts to start, the battery should warm up and produce more cranking amps. While this isn't the case with typical Sealed Lead Acid batteries, this is normal for Li-Fe batteries.

5. Charging using the AC adaptor

1. Use only the charger included with your jumpstart to recharge this jumpstart. Non-standard products will shorten the life of the battery and void the warranty.
2. Charge your jumpstart battery for 8 hours before using for the first time.
3. After using, press the test/USB switch button (11), check the battery voltage by Indicating LED's (4), (5) & (6), if the indicating LED (5) or (6) are on, it means the battery must be recharged.
4. Recharge the jumpstart battery after each use if possible, and thereafter, at least every 6-12 months.

How to charge:
1. Plug the charger into 110V AC power outlet
2. Plug the connector into the socket (12) located in side of the jumpstart. The charging indicating LED light (6) indicated the jumpstart is charging.
3. Depending on the use of the jumpstart, charging time is approximately 6-8 hours.

4. LED indicator (4) indicated a full charge.
5. Disconnect the charger.
6. In order to achieve maximum battery life, it is recommended to use your jumpstart often, so that the capacity of the battery is protected and its life expectancy will be extended.

6. USING THE 12V DC POWER SOURCE

1. Open the cover of cigarette lighter socket, on the front of the jumpstart (3)
2. Plug the jack plug of 12v electrical appliances into the cigarette lighter socket.

Note:
The maximum power of the cigarette lighter is 150W. If the power of your appliance is more than 150W, the socket output will shut down automatically, and will recover in 30 seconds.
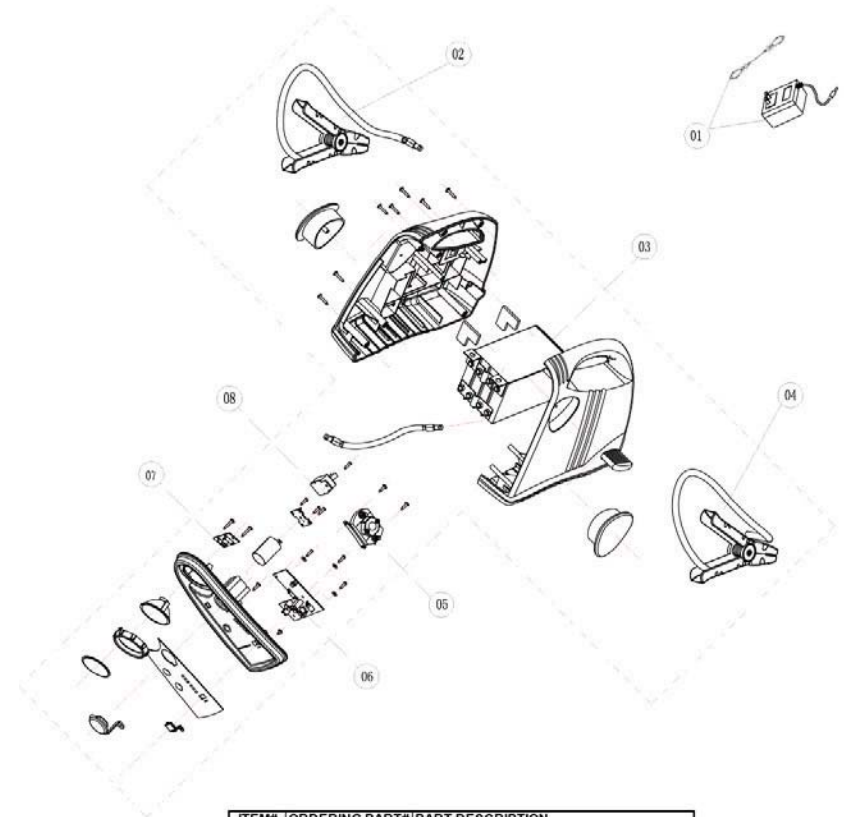
7. USING THE USB PORT AND LED WORK LIGHT

1. Push the test/USB switch button (12) one time to turn on the USB (10) outlet. Push again to switch it off. (If the battery is less than 10V, the USB output will turn off automatically.)
2. Push the light switch button (1) one time to turn on the LED work light. Push again to turn it off.

8. MAINTENANCE

1. Always inspect the power station before use to ensure the cables are in perfect condition and the clamps are clean and free from corrosion
2. Keep your jumpstart clean by wiping with a dry cloth. **DO NOT** use solvents as a cleaning agent.
3. Keep your jumpstart at **HIGH** or **FULL CHARGE** status at all times.

9. PARTS

ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT5900-01	12V 1A AC CHARGER W/ DC TO DC CORD
2	PRT5900-02	CABLE AND CLAMP ASSY (NEG -)
3	PRT5900-03	12V 8AH LI-FE BATTERY
4	PRT5900-04	CABLE AND CLAMP ASSY (POS.+)
5	PRT5900-05	RELAY
6	PRT5900-06	PCB
7	PRT5900-07	PCB
8	PRT5900-08	CIRCUIT BREAKER

IMPORTANT!

**Register your product(s) online
to ensure faster and more
efficient customer service.
For warranty registration
form, please visit...
http://atdtools.com/registration/**