

# POWERTECH

## 12V 4-in-1 Jump Starter with USB LED Air Compressor



**MB-3736**

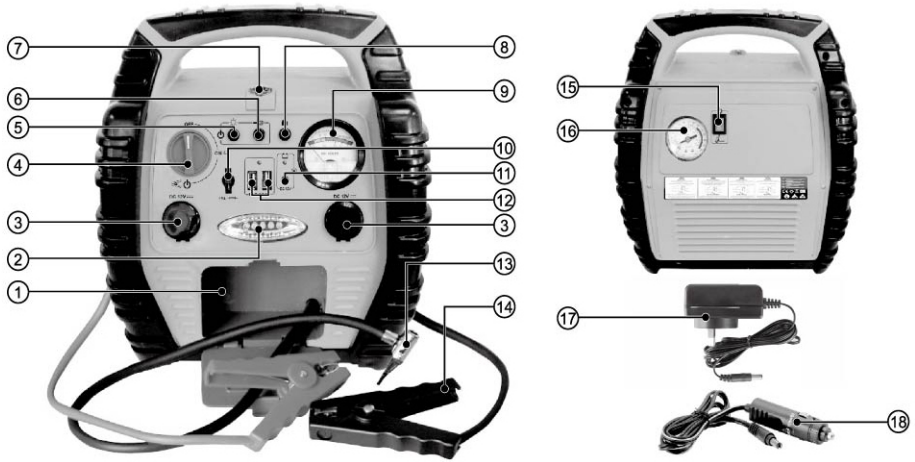
### **⚠ WARNING ⚠**

Before using this product, read this manual and follow all its Safety Rules and Operating Instructions.

- **RISK OF ACID**  
Batteries contain acid that can destroy clothing and burn the skin. Use extreme caution since acid might be exposed due to improper sealing, housing damage etc. Wear eye protection and gloves and avoid spilling or dripping electrolyte.
- **RISK OF EXPLOSIVE GASES**  
Batteries vent explosive hydrogen gas, especially when discharged and being jump-started.
- **PERSONAL PRECAUTIONS**  
Keep all sparks, ignition source and flames such as cigarettes away from a battery. Remove metallic watches, rings, and necklaces or chains to avoid contacting with battery terminals and possible electrical arcing.
- Do not allow the clamps to touch each other or to touch a piece of metal at the same time.

# PRODUCT DESCRIPTION

This product is designed and engineered for intermittent use only and provides:



- 1. The accessories compartment.
- 2. Work light especially useful during night times and light outage.
- 3. 12V (cigarette) DC output with overload protection.
- 4. Jumpstart ON/OFF Switch.
- 5. ON/OFF switch for worklight.
- 6. DC 5V USB ON/OFF button.
- 7. Compass.
- 8. Battery test button.
- 9. Volt Meter.
- 10. 15 Amp user replaceable fuse.
- 11. DC jack for AC/DC adapter or DC12V power cord to recharge the battery.
- 12. DC 5V USB output ports.
- 13. Mini compressor with pressure gauge, quick connector hose and inflatable accessories for occasional inflate tire or mattress etc.
- 14. Heavy duty plastic clamps with metal jaw and booster cables in total 65cm in length direct provides 400 Amp output jump start mini cars, small boats and other light 12V DC machine engines.
- 15. Compressor switch
- 16. Air pressure gauge.
- 17. AC/DC charging adapter.
- 18. DC charging plug.

## CHARGE THE BATTERY

### **⚠ WARNING ⚠**

- Use with provided Charging Adaptor or Charging Plug ONLY.
- Do not overcharge this unit. Overcharging may result in personal injury and/or damage to unit.
- Read and understand all instructions provided before attempting to charge the unit.
- The unit should always be kept at full charge. Immediately recharge the unit after each use or has been idled for every 1-2 months.
- Do not allow battery to be entirely depleted.
- Failed to do so may reduce battery lifetime.

**The fuse will be supplied separately in the accessory pack.**

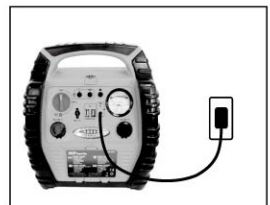
**To operate the jump starter please insert the fuse in the fuse slot located on the front face of the Jump starter next to USB output ports.**

- This product may arrive partially charged from the manufacturer. It is recommended to fully charge the unit immediately after purchase and before using for the first time.
- Fully recharge the unit when red charge indicator light is on.
- The charging Red LED indicator will be illuminated while charging. When charging is completed, press the battery status check button then the green LED will stay illuminated. This light will not go out until the charging plug is removed.
- Do not charge the unit for more than 38 hours by the provided AC Charging Adaptor.
- DC Charging Plug is ONLY used for intermittent charge. Do not charge for more than 2 hours continuously.
- Do not charge the unit on a boat, boat ramp, or dock since the electrical cords and outlets used for charging could cause severe electrical shock if they get wet.
- It is recommended that the unit be in an upright position while charging.

**NOTE:** Make sure both cable clamps (positive and negative) are placed in their storage holsters when not in use or while charging of the unit.

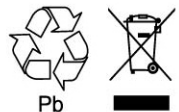
### **Charging from the AC/DC Charging Adaptor:**

1. Switch off the unit before charging.
2. Insert AC charger plug into charging port of the unit.
3. Insert AC charger receptacle plug into AC receptacle.
4. The battery charging indicator will turn RED while charging.
5. Fully charge takes approximately 36 hours.
6. When charging is completed, unplug the AC charger receptacle plug then the AC charger from the charging port on the unit.



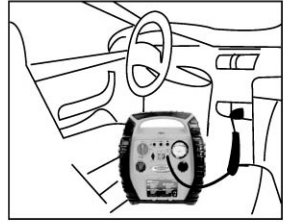
### **Disposal of Battery**

This product contains a sealed, non-spillable lead-acid battery which must be recycled or disposed of properly. You need to comply with your individual state or local government regulation regarding disposal of battery.



### Charging from the DC Charging Plug:

1. Switch off the unit before charging.
2. Insert DC charger plug into charging port of the unit.
3. Insert DC charger accessory plug into vehicle cigarette lighter socket.
4. The battery level indicator will turn RED while charging.
5. DC Charging Plug is ONLY used for intermittent charge. Do not charge for more than 2 hours continuously. Car Engine should keep running during charging.
6. After charging, unplug the DC charger accessory plug first and then the DC charger from the charging port on the unit.
7. Press the battery status check button, the Green battery status LED will indicate for full charged. If a full level of charge cannot be obtained, use the provided AC/DC Charging Adaptor to charge, or use the DC Charging Plug to charge again when the unit is completely cooled down.



## JUMPSTART AN ENGINE

### ⚠ WARNING ⚠

- DO NOT allow clamps to touch each other or to touch a piece of metal at the same time when power switch is ON.
- Use for boosting KNOWN GOOD lead acid batteries ONLY.
- Modern vehicles with electronic management systems should not be jump-started without “protected” jump starter leads and it is necessary to refer to the owner’s handbook for jump starting procedures for such vehicles. Refer to the vehicle owners’ manual for other specific information.
- When jump starting a vehicle, make sure installed systems have the same voltage outputs and avoids making sparks. Otherwise the vehicle charging systems could be severely damaged.
- Inspect installed batteries and jump starter itself before connection. Do not jump start a damaged battery or attempt to jump-start a frozen battery. Be sure vent caps of non-sealed batteries are installed securely and level.
- Vehicles apply the parking brakes and turn off the lights and all other electrical loads.
- Failure to follow these instructions may cause damage or explosion.
- Use safety goggles to protect eyes while jump-starting a battery.

## SAFE BOOST OPERATION

1. Turn off the vehicle ignition and all accessories (e.g. radios, lights, air conditioners and cellular phones).
2. Set the emergency brake and put vehicles with automatic transmission in park position.
3. Make sure the Jump Start System Power Switch is in OFF position.
4. Determine the polarities of the vehicle’s battery terminals. The positive (POS, P, +) battery terminal usually is larger in diameter than the negative (NEG, N, -) terminal. If you are unsure, you should refer to the vehicle’s owner’s manual.



5. Determine whether your vehicle uses a negative or positive grounded system: Negative ground system – Negative battery terminal is grounded to chassis. Most vehicles use this system. Positive grounded battery terminal is grounded to chassis or any other part of the vehicle. If you are unsure, you should refer to vehicle owner's manual.
6. Never allow clamps (positive & negative terminals) to touch together or to contact the same piece of metal to prevent short-circuits and arcing.
7. Follow instructions for a negative grounded system or positive grounded system as indicated below:

**Negative Grounded System:**

- a. Securely connect the positive (+) red clamp to the positive (POS, P+) terminal of the vehicle battery or the remote positive (+) terminal if equipped.
- b. Securely connect the negative (-) black clamp to the vehicle chassis, engine block or a non-moving metal part of the vehicle which is verified to be grounded. Do not clamp directly to negative battery terminal, carburetor, fuel lines, or sheet metal body parts.

**Positive Grounded System:**

- a. Securely connect the negative (-) black clamp to the negative (Neg, N-) ungrounded terminal of the vehicle battery.
  - b. Securely connect the positive (+) red clamp to the vehicle chassis, engine block or a non-moving metal part of the vehicle which is verified to be grounded. Do not clamp directly to positive battery terminal, carburetor, fuel lines, or sheet metal body parts.
8. The Reverse Polarity Indicator on the Jump Starter will illuminate RED for wrong connection and GREEN for right connection.
  9. When correct clamp connection is made, turn the Jump Start System Power Switch to ON position.
  10. Allow 2 or 3 minutes of charging time. It is recommended to have a second person to assist holding the unit securely in place during the next steps.
  11. Turn on the vehicle to attempt to start the engine.

**⚠ WARNING ⚠**

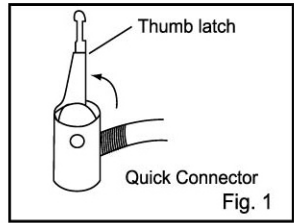
Cranking the engine for more than 30 seconds at a time may overheat the starter motor and damage it. If vehicle does not start within 30 seconds, call an auto electrician.

12. Standing as far away from the vehicle battery as is practical, disconnect the clamps in reverse sequence to connecting procedure:  
For negative grounded systems, first disconnect negative (black) then positive (red) clamps.  
For positive grounded systems, first disconnect positive (red) then negative (black) clamps.

# USE COMPRESSOR

## ⚠ CAUTION ⚠

- This compressor is designed for occasional use only. (less than 10 minutes).
- Keep out of reach of children.
- Do not leave unattended.



### IMPORTANCE

During inflation and after completion regularly check pressure with a know accurate guage.

#### 1A. Articles inflation

- Connect adaptor to connector (Fig.1) then close the thumb latch.
- Insert adaptor into article in order to be inflated.

#### 1B. Tyre inflation

- Insert the connector to tyre stem then close the thumb latch.

2. Check our TYPICAL INFLATION PRESSURE CHART. This chart is only a guide.

3. Turn compressor switch ON.

4. When desired pressure is reached, turn off the power.

5. Remove adaptor from inflated article or tire.

### TROUBLE SHOOTING

- Compressor runs but does not inflate
  - Be sure the connector is on the valve stem as far as possible before closing thumb latch.
  - Check article for leaks.
  - Check hose for breaks and leaks at fittings.
- Compressor runs slowly
  - Overheat from excessive use. Shut it off and leave it cool for 30 minutes.
  - Voltage too low. Check condition of battery.

### TYPICAL INFLATION PRESSURE

Avoid over inflating. NEVER EXCEED RECOMMENDED PRESSURE. The item being inflated may burst and cause serious injury.

Tire Types	BAR	PSI
225/25 R 16	2.2	31.9
235/45 R 17	2.4	34.8
255/40 R 17	2.6	37.7
265/2 R 18	3.2	46.4
185/65 R 15	2	29
205/60 R 15	1.9	27.6
225/50 ZR 16	2.2	31.9

### Shock Absorbers

Normal Load	2.76	40
Heavy Load	6.21	90

### Bicycle Tire

27-1 1/4	5.86	85
20-1 1/2	2.76	40

### Other Inflatables

Football	0.9	13
Basketball	0.62	9
Volleyball	0.35	5
Lawn Tractor Tire	1.52	22
Boat (2 man)	Firm	Firm
Mattress	Firm	Firm

## USED AS POWER SUPPLY FOR 12V DC APPLIANCES

The 12V DC outlet can be used to drive other 12V DC tools with a rating of up to 10 Amps.

- Insert accessory plug of the product to be powered into the 12V DC outlet socket.



### NOTE:

- Do not exceed maximum load of 10 amps.
- When using the 12V outlet socket, make sure that the plug you are connecting is positive (+) on the center pin.

## 5V DC USB OUTPUT

USB output ports can charge your small electronics devices such as Cellphone, iPod, MP3 players etc.

- Press the “TEST” button on the panel to ensure the machine’s battery is in full capacity position (check the LED display).
- Press the “ON/OFF” button beside the USB ports, the red indicator is on then the USB outputs are enabled.
- Insert the USB data wire into the USB port.
- Connect the another end to your small electronics devices.
- Disconnect the USB data wire from the machine When you finish the charging for your USB device.
- To press the “ON/OFF” button beside the USB ports once more, the red light goes out, then USB output are in the OFF positions.



### **⚠ CAUTION ⚠**

If you do not intend to use the USB output, please press the button to the OFF positions, otherwise, the battery will be discharged slowly as enabled USB ports draw little current from battery.

## TROUBLE SHOOTING



Always seek professional in doubt.

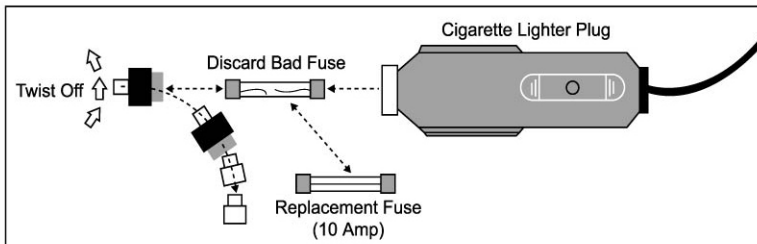
1. Check to ensure that all connections are firm if the jump starter does not operate.
2. Check to ensure connections are clean and free from corrosion.
3. Check the car type fuse on front panel.
4. Check the fuse within the cigarette lighter plug only if fail to have DC to DC charging.

### System protective fuse replacement

1. The 15Amp-car fuse in the back compartment for battery main power to all application.
2. To check the fuses, remove them and inspect the filament if it is melt to open the circuit.
3. Replace with the provided spare fuse by pressing it entirely into the fuse holder until it is tight.

### Cigarette lighter plug fuse replacement

1. Recommend to investigate the cause of the fuse failure before replace it since it is not commonly occurred.
2. Unscrew the tip of the plug and replace the provided spare glass tube fuse as shown in the diagram below.



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