

**Safety Presentation –
HT1224AGM
12/24V Commercial Jump Starter
For Heavy-Duty Fleet Service**



Safety Presentation

HT1224AGM – 12/24V Commercial Jump Starter

SAFETY: OPERATOR TRAINING

People typically underestimate the dangers associated with jump starting and often neglect to provide proper training for operators. Operator training on the proper use of the unit is a must for safe operation. The following sections will point out the most common perils in jump starting a heavy-duty vehicle and show you the proper and safe way to use your HT1224AGM.

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WARNING



READ AND FOLLOW DIRECTIONS

- Read, understand and follow instructions (and all warnings) found in the operator's manual, on the unit and from the vehicle manufacturer before using your jump starter.
- Failure to follow operating instructions may result in property damage and/or serious personal injury.

WARNING



PROPER CLAMP STORAGE

- Always be sure to properly store clamps when the unit is not in use. Store clamps away from each other and any common conductors. Improper storage may cause the unit's battery(ies) to short circuit and catch fire.

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WARNING

GENERAL EXPLOSIVE WARNING



- Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is essential that you read the unit's operator's manual and follow the instructions exactly and review any cautionary markings on all batteries and equipment to be jump started with the HT1224AGM.

WARNING

FLYING DEBRIS WARNING



- Always wear safety equipment, including safety glasses, when working with a jump starter to protect yourself from flying debris, acid spills, or other objects in and around an engine compartment.

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GENERAL PRECAUTIONS

- Read, understand and follow the safety warnings and instructions in the HT1224AGM Operator's Manual.
- Read and follow all vehicle safety instructions provided with the equipment to be jump started.
- Use proper safety equipment, including safety glasses and other protective gear.
- **DO NOT** attempt to jump start a vehicle with the jump starter's AC cord connected to an AC power source.

STORAGE

- Store unit with the voltage selector disconnected.
- Store unit in a secure and protected indoor location.
- If possible, store the unit where it will not be exposed to extreme temperature conditions.

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PERSONAL PRECAUTIONS

- Always have someone near you (within the sound of your voice) while using this type of product.
- Never smoke or allow a spark or flame near the vehicle or the jump starter.
- Remove all watches and metal jewelry when working with a lead acid battery.
- Always read, understand and follow all directions in the HT1224AGM Operator's manual prior to use.

PREPARING TO USE THE UNIT – JUMP STARTING

- When preparing to jump start, ensure that the unit is disconnected from AC power.
- Visually inspect the unit's output cables, clamps and clamp jaws to ensure there is no damage to them.
- Take care that the output cables are not exposed to moving engine parts (such as fan blades).
- **NEVER** spark the unit's clamps together – this is a very dangerous practice.

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USING THE UNIT – JUMP STARTING – MATCHING VOLTAGE IS CRITICAL

- Batteries generate explosive gases during normal operation (charging and discharging).
 - **ALWAYS** use in a well-ventilated area.
- **ALWAYS** ensure that the vehicle's operating voltage and the unit's voltage match (12V–12V, 24V–24V).
 - Set selector cable to the proper voltage (12V or 24V) to match vehicle's starting system voltage.
 - **WARNING:** Mixing voltages will cause excessive generation of explosive gases.
- Follow the proper connection sequence (*will address this on later slide as well*):
 - First, connect Red/Positive/POS (+) clamp/lead to battery positive. Then:
 - Black/Negative/NEG (-) clamp/lead to engine or chassis ground (**NEVER** to negative BAT terminal.)
- Verify all vehicle connections prior to jump starting.
- When jump starting a vehicle with multiple batteries, connect POS (+) lead to battery closest to the starter.

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USING THE UNIT – JUMP STARTING – HANDLING MISMATCHED VOLTAGES

- If you've made a mistake and set the jump starter to 12 Volts and the vehicle is 24 Volt operation:
 - Disconnect the Black/Negative/NEG (-) lead from the vehicle ground connection.
 - ***Move away from the HT1224AGM.***
 - Allow the unit to rest for at least 30 minutes.
 - Disconnect the power selector plug.
 - Tag the unit out as non-functional.
 - Have batteries assessed by a battery dealer for potential damage.
 - Exposure to excessive voltage (unit set to 12V and connected to 24V system) likely will have damaged cell vents, which can result in excessive hydrogen gassing, which is very dangerous. ***DO NOT USE*** a unit which has been tagged out for this reason until the batteries have either been replaced or found to be properly operating by a qualified source.

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USING THE UNIT – JUMP STARTING – VEHICLE CONNECTIONS

- Position jump starter cable leads to reduce risk of damage by hood, door or moving engine parts.
 - Stay clear of fan belts, pulleys, and other parts that can cause injury.
- First, connect the unit's Red/Positive/POS (+) lead to the Positive/POS (+) post of the vehicle's battery.
 - If the vehicle has a 12 Volt system with multiple batteries, connect the unit's Red/Positive/POS (+) lead to the battery closest to the starter.
- Then, connect the unit's Black/Negative/NEG (-) lead to a proper engine or chassis ground away from battery.
 - **DO NOT** connect lead to carburetor, fuel lines, or sheet metal body parts.
 - Connect to a heavy gauge metal part of the frame or engine block.
- For Negative grounded systems, consult vehicle's instructions for a proper connection.
- After jump starting is complete, disconnect negative lead from vehicle ground first, then remove the positive lead from the battery terminal.

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USING THE UNIT – RECHARGING

- Regular charging is a good practice and will extend the life of the battery (charge daily if possible).
- Place the unit in a stable and well-ventilated location.
- Use the built-in charger when recharging the unit.
 - **NEVER** use an external charger. It may damage the jump starter.
 - Make sure the unit's charging cable has not been damaged.
 - If it has been damaged, replace it with a new cable.
 - The built-in charger is automatic and will charge each battery individually.
 - The charging system has two channels, one for each battery.
 - Each channel is independent: each will bring the connected battery to full charge and turn off.
 - Charge complete is indicated by an ammeter reading of zero.
- Disconnect the unit when charging is complete.

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SUMMARY

- Train all operators on the proper use of the HT1224AGM.
- Be aware of the dangers involved in jump starting.
- Read, understand and follow the unit's instruction manual.
- **ALWAYS** verify vehicle connections and the voltage selection prior to attempting a start.
- Charge the HT1224AGM on a regular basis in a safe environment.
- Store the HT1224AGM safely in a secure indoor location.

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THANK YOU
AND BE SAFE!

For more information,
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