



Product features may vary from the pictures



RADIO CONTROL HMMWV M1045A2 TOW Missile Carrier

Owner's Manual with Assembly Instructions

Please read this manual and save it.
For Model RC09038

Use only with a 12 Volt (7.0 Amp/Hr.) Battery, 12 Volt (2.0 Amp) Charger (all included).

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A

Important Information

- You must charge your battery for 18 - 30 hours **before you use your HMMWV M1045A2 TOW Missile Carrier for the first time**. We recommend that you start charging your 12V battery before beginning assembly. Please see Battery Charging section beginning on page 5 for detailed instructions.
- Read this manual carefully for important safety information and operating instructions before using your HMMWV M1045A2 TOW Missile Carrier. Please keep this manual for future reference as it contains important information.
- This HMMWV M1045A2 TOW Missile Carrier is designed for use: on hard surfaces; on generally level terrain; and by children 8 years of age and up.
- To prevent damaging the motors and gears, do not tow anything behind the HMMWV M1045A2 TOW Missile Carrier or overload it.
- If you have any questions about your HMMWV M1045A2 TOW Missile Carrier, please call our service lines at **1-510-483-5700 ext. 28** from 9 AM to 5 PM (EST) Monday through Friday. Trained customer service representatives are available to take your call in English.

B

Warnings and Cautions

ELECTRICAL HAZARD

WARNING !

- **PREVENT FIRE**

- Never modify the electrical system. Alterations could cause a fire resulting in serious injury and could also ruin the electrical system.

- Use of the wrong type battery or charger could cause a fire or explosion resulting in serious injury.

- The 12V battery must be handled by adults only. The 12V battery is heavy and contains sulfuric acid (electrolyte). Dropping the 12V battery could result in serious injury.

- Never allow children to charge the 12V battery. 12V battery charging must be done by adults only.

A child could be injured by the electricity involved in charging the battery.

- Never lift or carry the battery by the wires or connector. This can damage the battery and possibly cause a fire resulting in serious injury. Lift and carry the 12V battery by the case only.

- Read the safety instructions on the 12V battery.

- Examine the 12V battery, charger and their connectors for excessive wear or damage each time you charge the 12V battery. If damage or excessive wear is detected, do not use the charger or the 12V battery until you have replaced the worn or damaged part.

CAUTIONS !

- Use the charger in dry locations only.

C

Parts

- If you experience a problem with this product, or are missing a part, please call us at **1-510-483-5700 ext. 28**, rather than return this product to the store.
- Please identify all parts before assembly and save all packaging material until assembly is complete to ensure that no parts are discarded.

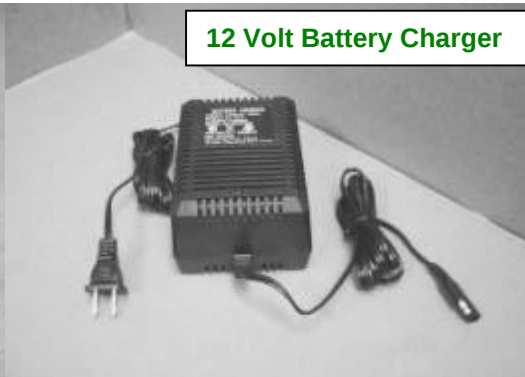
**HMMWV M1045A2 TOW
Missile Carrier**



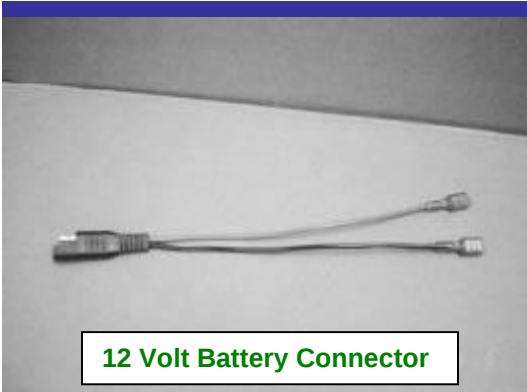
Radio Controller



12 Volt Battery



12 Volt Battery Charger



12 Volt Battery Connector

D

Battery Charging

ELECTRICAL HAZARD

WARNING !

• PREVENT FIRE

- Never modify the electrical system. Alterations could cause a fire resulting in serious injury and could also ruin the electrical system.
- Use of the wrong type battery or charger could cause a fire or explosion resulting in serious injury.
- The 12V battery must be handled by adults only. The 12V battery is heavy and contains sulfuric acid (electrolyte). Dropping the 12V battery could result in serious injury.
- Never allow children to charge the 12V battery. 12V battery charging must be done by adults only. A child could be injured by the electricity involved in charging the 12V battery.
- Never lift or carry the 12V battery by the wires or connector. This can damage the 12V battery and possibly cause a fire resulting in serious injury. Lift and carry the 12V battery by the case only.
- Read the safety instructions on the 12V battery.
- Examine the 12V battery, charger and their connectors for excessive wear or damage each time you charge the 12V battery. If damage or excessive wear is detected, do not use the charger or the 12V battery until you have replaced the worn or damaged part.

CAUTION !

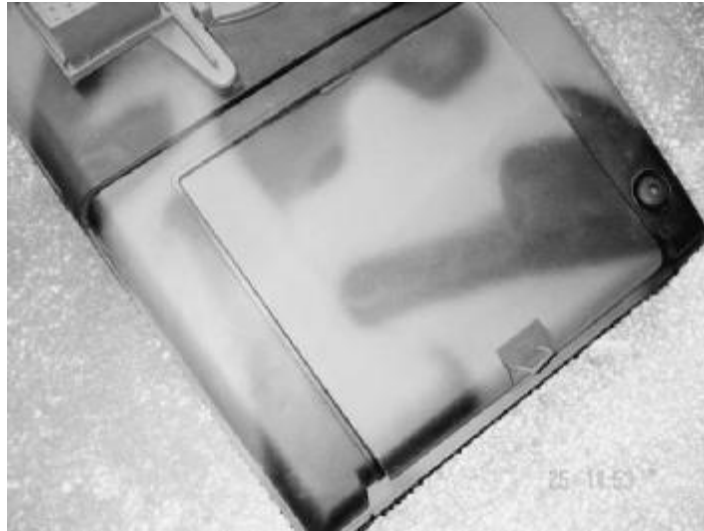
- Use the charger in dry locations only.

Important Notes

- **Your new 12V battery must be charged for at least 18 hours before you use it in your HMMWV M1045A2 TOW Missile Carrier for the first time.**
- We recommend that you start charging your 12V battery before beginning assembly of your HMMWV M1045A2 TOW Missile Carrier.
- The 12V battery must be upright while charging.
- The charger is not a toy.
- Do not short circuit the 12V battery.
- The 12V battery **MUST** be removed from your HMMWV M1045A2 TOW Missile Carrier each time you recharge the lead acid rechargeable battery.
- Before charging the 12V battery, examine the 12V battery case for cracks and other damage which may cause sulfuric acid (electrolyte) to leak during the charging process. If damage is detected, do not charge the 12V battery or use it in your HMMWV M1045A2 TOW Missile Carrier. 12V battery acid is very corrosive and can cause severe damage to surfaces it contacts.
- Do not charge the 12V battery on a surface which could be damaged by the acid contained inside the 12V battery. Take precautions to protect the surface on which you charge your 12V battery.
- Use only a 12 volt (2.0 Amp) charger with an input of 120 VAC, 60 Hz, 24W and an output of 12V DC, 2000 mA to charge your rechargeable 12 volt (7.0 Amp/Hr.) battery.
- If your 12V battery is old and will not accept a full charge, do not leave it in the HMMWV M1045A2 TOW Missile Carrier. Always remove a dead battery from the vehicle.

IMPORTANT! The 12V battery must be removed from your HMMWV M1045A2 TOW Missile Carrier each time you recharge it.

1



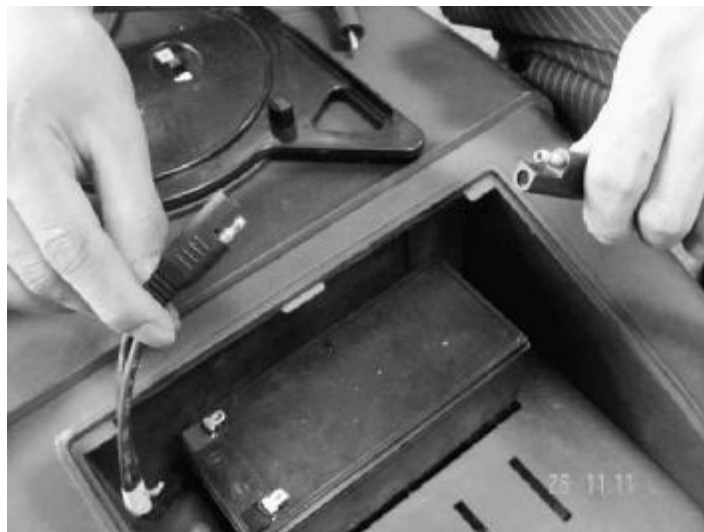
- Open the battery hatch from the battery compartment.

2



- Using a Phillips screwdriver, loosen the screws from the battery clamp. Remove the battery clamp from the battery compartment.

3



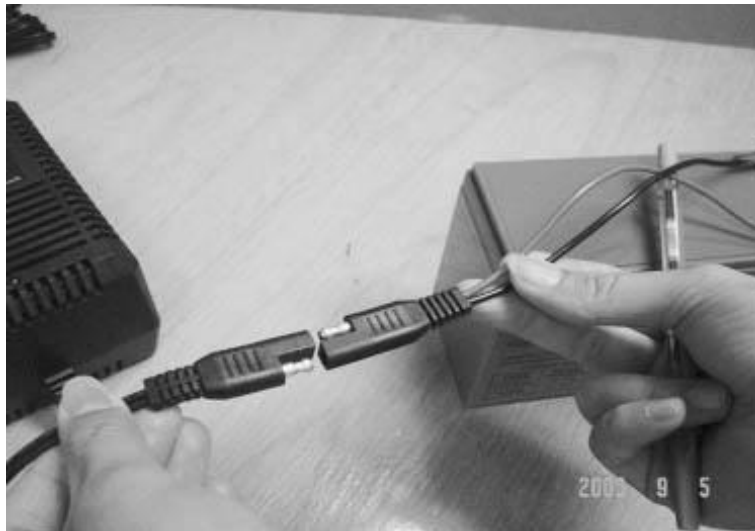
- Remove the battery connector from the HMMWV M1045A2 TOW Missile Carrier harness connector.

4



- Remove the 12 Volt (7.0 Amp/Hr.) battery from the battery compartment.

5



- Plug the charger connector into the battery connector.



- Plug the charger into a standard 120 volt wall outlet.

Note: If power flowing to the wall outlet is controlled by a switch, make sure the switch is “ON”.

- **Before first time use, charge the 12V battery for at least 18 hours. Never charge the 12V battery longer than 30 hours.**
- **Recharge the 12V battery for at least 14 hours after each use of your vehicle. Do not charge the 12V battery longer than 30 hours.**
- Once the 12V battery is charged, disconnect the charger connector from the battery connector. Unplug the charger from the wall outlet. The 12V battery is now charged and is ready to be installed in your HMMWV M1045A2 TOW Missile Carrier. Please see "Battery Installation" for detailed battery installation instructions.

E

Battery Installation

HMMWV M1045A2 TOW Missile Carrier:

IMPORTANT! Use only a 12 Volt (7.0 Amp/Hr.) battery. Use of any other battery will damage your HMMWV M1045A2 TOW Missile Carrier. Make sure that you charge the 12V battery for at least 18 hours using the enclosed 12 Volt charger before operating your HMMWV M1045A2 TOW Missile Carrier for the first time. **Charge the 12V battery for at least 14 hours after each use of the HMMWV M1045A2 TOW Missile Carrier. Never charge the 12V battery longer than 30 hours.** Failure to follow these instructions may damage your 12V battery and will void your warranty.

1



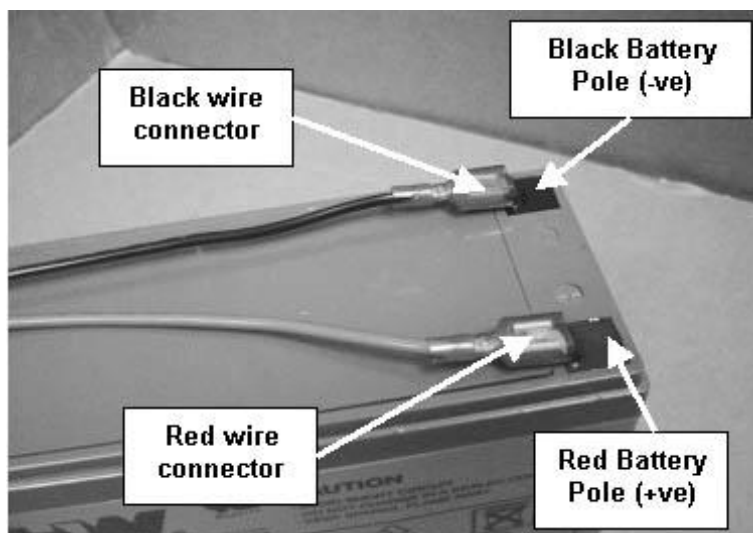
- Switch the power to "OFF".
- Open the battery hatch from the battery compartment.

2



- Using a screwdriver, loosen the screws from the battery clamp. Remove the battery clamp from the battery compartment.

3



- **ATTENTION:** Make sure the battery connector wires are connected to the same color of the battery pole i.e. black color wire connector connected to the black color battery pole (-ve) and red color wire connector connected to the red color battery pole (+ve).



- Place the 12 Volt (7.0 Amp/Hr.) battery upright in the battery compartment. Make sure the battery connector extends toward HMMWV M1045A2 TOW Missile Carrier body.

4



- Plug the battery connector into the HMMWV M1045A2 TOW Missile Carrier harness connector.

5



- Position the battery clamp over the battery with the ends of the battery clamp aligned with the screw holes in the battery compartment.
- Insert the screws through the ends of the battery clamp into the battery compartment.
- Fasten the screws with a Phillips screwdriver. Do not over-fastening.

6



- .Close the battery hatch.

Note: If the battery connector will not plug into HMMWV M1045A2 TOW Missile Carrier harness connector, turn it over and try again! Do not force the battery connector into the HMMWV M1045A2 TOW Missile Carrier harness connector.

IMPORTANT! Always remember to keep the battery hatch locked at all times to prevent children from accessing the 12V battery.

Radio Controller:



- Switch the power to "OFF".
- Unscrew the battery hatch located on the back of the radio controller with a screwdriver and remove it.



- Insert 8 pieces of AA 1.5V battery in the proper direction as indicated inside the battery compartment.
- Replace the battery hatch & fasten screw securely.

F

Battery Care and Disposal

Care

If a battery leak develops, avoid contact with the leaking acid and place the damaged battery in a plastic bag. See information below for proper disposal.

If acid comes in contact with skin or eyes, flush with cool water for at least 15 minutes and call a physician.

If acid is internally ingested, provide water, milk of magnesia or egg whites immediately for ingestion. Never give emetics or induce vomiting. Call a physician immediately.

- Charge a new battery for at least 18 hours before first use. Never charge the battery longer than 30 hours. Overcharging or undercharging the battery may shorten battery life and decrease vehicle running time.

- **After the first charge, recharge the 12V battery for at least 14 hours after each use. Never charge the 12V battery longer than 30 hours.** Charge the 12V battery after each use, regardless of how long the vehicle was used.

- The 12V battery must be upright while charging.
- Do not allow the 12V battery to run down completely before charging.
- Charge the 12V battery before storing the vehicle.
- Charge the 12V battery at least once per month, even if the vehicle has not been used.
- Leaving the 12V battery in a discharged condition will ruin it.
- Always remove an exhausted battery from the vehicle. Battery leakage and corrosion can damage the vehicle.
- Do not store the 12V battery on a surface which could be damaged by the acid contained inside the battery. Take precautions to protect the surface on which you store the 12V battery.
- Do not store the 12V battery in temperatures above 75° F or below -10° F.
- Prevent the 12V battery from moving freely inside the battery compartment. **Always use the battery clamp to secure the 12V battery in the battery compartment.**
- Examine the 12V battery, charger and their connectors for excessive wear or damage each time you charge the 12V battery. If damage is detected, do not use the charger or the 12V battery until you have replaced the worn or damaged part.

Disposal

- Your 12V battery is a sealed lead-acid battery. It must be recycled or disposed of in an environmentally sound manner.
- Do not dispose of a lead-acid battery in your regular household trash. The incineration, land filling or mixing of sealed lead-acid batteries with household trash is prohibited by law in most area.
- Return exhausted batteries to a federal or state approved lead-acid battery recycler, or a local seller of automotive batteries. Contact your local waste management officials for other information regarding the environmentally sound collection, recycling and disposal of lead-acid batteries. If you live in the State of Florida or Minnesota, it is prohibited by law for anyone to throw away lead-acid batteries in the municipal waste stream.

G

Caring For Your HMMWV M1045A2 TOW Missile

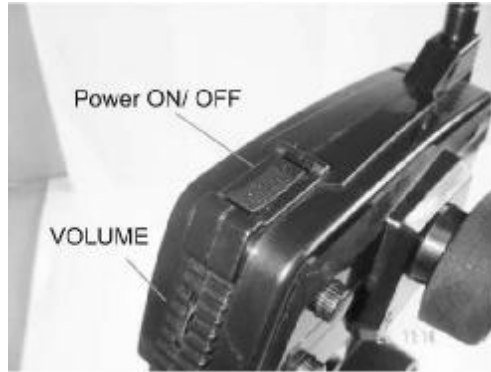
Carrier

- During snowy or rainy weather, the HMMWV M1045A2 TOW Missile Carrier should be stored inside or under a protective cover. Remember to charge the 12V battery at least once per month while your Humvee is not in regular use.
- Avoid operating the HMMWV M1045A2 TOW Missile Carrier in wet or snowy conditions. Water or moisture in the motors or electrical switches can cause them to corrode, and could cause switch or motor failure.
- Avoid operating the HMMWV M1045A2 TOW Missile Carrier on sand, loose dirt or gravel. Sand, loose dirt or gravel in the motors or electrical switches can cause them to jam, and could cause switch or motor failure.
- The HMMWV M1045A2 TOW Missile Carrier can be wiped with a soft, dry cloth.

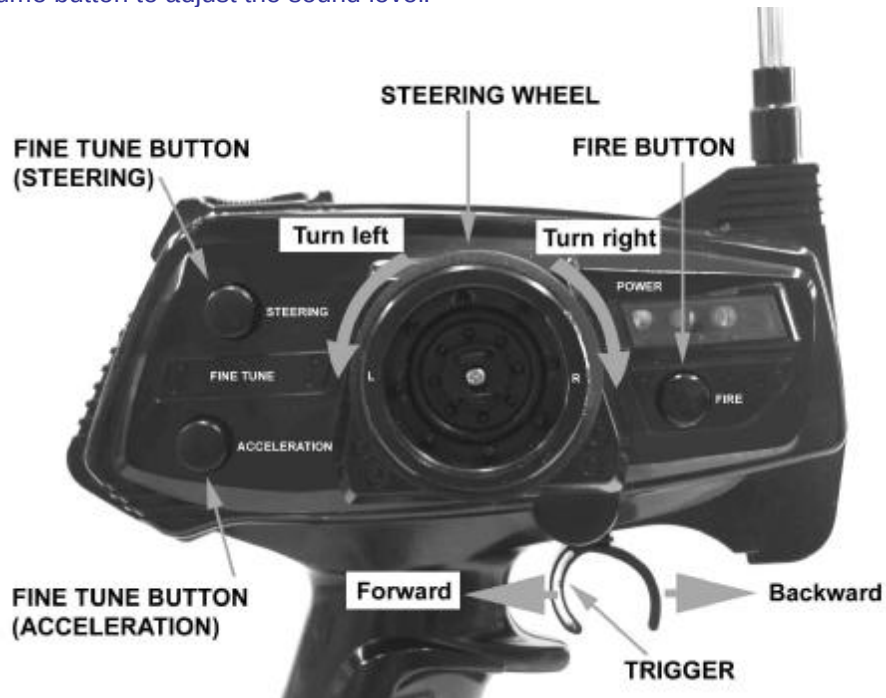
H

How to Operate Your HMMWV M1045A2 TOW

Missile Carrier



- To operate a HMMWV M1045A2 TOW Missile Carrier, switch on the Power Switch of the Vehicle and Radio Controller.
- Extend the antenna of the Radio Controller.
- Use Volume button to adjust the sound level.



- Use the Steering Wheel to control the HMMWV M1045A2 TOW Missile Carrier to turn LEFT and RIGHT.
- Use Fine Tune Button (steering) to adjust the turning angle of LEFT and RIGHT side of the front wheels.
- Use Fine Tuning Button (acceleration) to adjust the speed of FORWARD and BACKWARD.

- Use the Trigger to control the HMMWV M1045A2 TOW Missile Carrier to FORWARD, BACKWARD.



- Insert the missile into the cannon. Push the Fire Buttons to launch the missile (with missile firing sound).
- The LED (RED, YELLOW, GREEN) on the Radio Controller are indicated the power remaining.
 - All LED turn on: FULL POWER (volts>10V)
 - Only RED, YELLOW LED turn on: NORMAL POWER (volts<9V)
 - Only RED LED turns on: LOW POWER (volts<6V)
- After approximately 15 minutes, your HMMWV M1045A2 TOW Missile Carrier will begin to lose its power. Simply follow the steps outlined in the “Battery Charging” section to recharge your HMMWV M1045A2 TOW Missile Carrier.

Operation Tips and Helpful Hints:

- Do not operate during thunderstorms.
- When your HMMWV M1045A2 TOW Missile Carrier starts to loose power, it may experience loss of functions of its performance ability. If this happens, simply recharge your 12V battery again and/or replace the radio controller battery.
- Your HMMWV M1045A2 TOW Missile Carrier is operated by radio waves. It is possible the unit may not perform properly due to interference from nearby devices such as a cordless phone, hair dryers, walkie- talkie or other radio controlled toys.
- Avoid sand and snow when operating your HMMWV M1045A2 TOW Missile Carrier.
- Always select a safe place to play. Never drive your Vehicle on public streets.
- Keep fingers, hair and loose clothing away from the wheels while the HMMWV M1045A2 TOW Missile Carrier is switched on.
- Do not get your rechargeable battery wet. If you do, dry it immediately.

Problems and Solutions Guide

If your HMMWV M1045A2 TOW Missile Carrier does not operate:

- Make sure the batteries are installed properly.
- Recharge your 12V battery.
- Make sure your HMMWV M1045A2 TOW Missile Carrier is turned on and the Controller is turned on.
- Make sure the battery contacts have not become dirty. If they have, simply wipe with dry cloth.

If your HMMWV M1045A2 TOW Missile Carrier responds slowly:

- Recharge the 12V battery.
- You may be out of range, move closer to the HMMWV M1045A2 TOW Missile Carrier.
- Make sure the battery contacts have not become dirty. If they have, simply wipe off with a dry cloth.
- Replace the batteries in the radio controller.

Problems	Possible Cause	Solution
HMMWV M1045A2 TOW Missile Carrier does not run	Undercharged battery	Charge the 12V battery. A new battery should have been charged for at least 18 hours before using the HMMWV M1045A2 TOW Missile Carrier for the first time. After first-time use, recharge the battery for at least 14 hours after each use. Never charge the battery longer than 30 hours.
		Check all connectors. Make sure the battery connector is tightly plugged into the charger connector and that the charger is plugged into wall.
		Make sure power flow to the wall outlet is "ON"
	Charger is not working	There is no sure way to tell if your charger is working unless you have a volt meter.
	Loose wire or loose connector	Check all wires and connectors. Make sure the battery connector is tightly plugged into the HMMWV M1045A2 TOW Missile Carrier harness connector, and that there are no loose wires around the motor.
	Dead battery	If your 12V battery is old or if you have not followed the Battery Care instructions, your 12V battery may be dead.
	Electrical switch damage	The electrical switches can become corroded due to exposure to water or moisture, or can jam due to loose dirt, sand or gravel.
HMMWV M1045A2 TOW Missile Carrier was running but suddenly stopped	Loose wire or loose connector	Check all wires and connectors. Make sure the battery connector is tightly plugged into the HMMWV M1045A2 TOW Missile Carrier harness connector, and that there are no loose wires around the motor.
	Humvee is overloaded	Make sure you do not overload the HMMWV M1045A2 TOW Missile Carrier by towing objects behind the vehicle.

	Driving conditions are too stressful	Use only on generally level ground. Extreme temperatures can also affect running time.
Short run time	Undercharged battery	Charge the 12V battery. A new battery should have been charged for at least 18 hours before using the HMMWV M1045A2 TOW Missile Carrier for the first time. After first-time use, recharge the 12V battery for at least 14 hours after each use. Never charge the 12V battery longer than 30 hours.
		Check all connectors. Make sure the battery connector is tightly plugged into the charger connector and that the charger is plugged into wall.
		Make sure the power flow to the wall outlet is "ON"
	Overcharged battery	Do not charge the 12V battery longer than 30 hours.
	12V battery is old and will not accept full charge	Even with proper care, a rechargeable battery does not last forever. Average battery life is 1 to 2 years depending on the HMMWV M1045A2 TOW Missile Carrier use and use conditions. Replace the 12V battery with a 12 Volt (7 Amp/hr.) battery. Do not substitute parts.
	Driving conditions are too stressful	Use only on generally level ground. Extreme temperatures can also affect running time
HMMWV M1045A2 TOW Missile Carrier runs sluggishly	Undercharged battery	Charge the 12V battery. A new battery should have been charged for at least 18 hours before using the Humvee for the first time. After first-time use, recharge the 12V battery for at least 14 hours after each use. Never charge the 12V battery longer than 30 hours.
		Check all connectors. Make sure the battery connector is tightly plugged into the charger connector and that the charger is plugged into wall.
		Make sure power flow to the wall outlet is "ON".
	12V Battery need charging	After approximately 15 minutes of constant use, the 12V battery needs charging.
	12V battery is old and will not accept full charge	Even with proper care, a rechargeable battery does not last forever. Average battery life is 1 to 2 years depending on the HMMWV M1045A2 TOW Missile Carrier use and use conditions. Replace the battery with a 12 Volt (7 Amp/hr.) battery. Do not substitute parts.
	HMMWV M1045A2 TOW Missile Carrier is overloaded	Make sure you do not overload the HMMWV M1045A2 TOW Missile Carrier by towing objects behind the vehicle.
	Driving conditions are too stressful	Use only on generally level ground. Extreme temperatures can also affect running time.
Sometimes the HMMWV M1045A2 TOW Missile Carrier doesn't run, but other time it does	Electrical switch damage	The electrical switches can become corroded due to exposure to water or moisture, or can jam due to loose dirt, sand or gravel.
	Loose wire or loose connector	Check all wires and connectors. Make sure the battery connector is tightly plugged into the HMMWV M1045A2 TOW Missile Carrier harness connector, and that there are no loose wires around the motor.

Charger gets warm during use	It is normal for some chargers to get warm during use and is not a reason for concern. Some chargers do not get warm during use.	No action required.
		If your charger does not get warm during use, it does not mean that it is not working properly.
12V battery makes a sizzling or gurgling noise when charging	It is normal for some batteries to make noise and swell slightly while charging and is not a reason for concern. Some batteries do not make noise or swell while charging.	No action required.
		If your battery does not make noise or swell slightly during charging, it does not mean that it is not accepting the charge.

IF THERE IS NO FUNCTION BETWEEN THE RADIO CONTROLLER AND THE VEHICLE:

- n** Make sure you have turned ON the Radio Controller and the Vehicle.
- n** Make sure your HMMWV M1045A2 TOW Missile Carrier is fully charged.
- n** Check that the batteries are inserted properly.
- n** Replace the old AA 1.5V batteries with new AA 1.5V alkaline batteries (for Radio Controller)
- n** Replace the old 12 V Sealed Lead-Acid Rechargeable battery with new 12 V Sealed Lead-Acid Rechargeable battery (for HMMWV M1045A2 TOW Missile Carrier).
- n** Move the Radio Controller closer to your HMMWV M1045A2 TOW Missile Carrier to determine the best communication between the Radio Controller and the HMMWV M1045A2 TOW Missile Carrier. (The operating range is approximately 25 to 30 feet)

IF YOUR HMMWV M1045A2 TOW MISSILE CARRIER FAILS TO CHARGE:

- n** Make sure the lead acid rechargeable battery have been inserted properly.
- n** Make sure you have connected your HMMWV M1045A2 TOW Missile Carrier onto the connectors securely.

IMPORTANT!

If you experience a problem with your HMMWV M1045A2 TOW Missile Carrier, first check the Problems and Solutions Guide above. If you still experience a problem, please contact Ultimate Solider® Consumer Relations at **1-510-483-5700 ext. 28** between 9 AM and 5 PM (EST) Monday through Friday.

Modifications not authorized by the manufacturer may void user's authority to operate this device.

Emissions or interference of surrounding electronic equipment may affect operating performance.

FCC NOTICE !

NOTE: 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

If, after reviewing the Problems and Solutions Guide, the vehicle still fails to operate, please contact Ultimate Solider® Consumer Relations at **1-510-483-5700 ext. 28**.

Hint: For faster service when calling Consumer Relations, completely charge the 12V battery before calling and have the following available by the phone: HMMWV M1045A2 TOW Missile Carrier and radio controller, HMMWV M1045A2 TOW Missile Carrier model number (see packaging box), a Phillips screwdriver is helpful.

NOTICE !

The HMMWV M1045A2 TOW Missile Carrier has a prevention function. Should any button on the remote control be continuously pressed for up to 4 minutes, it will automatically shut down for a brief moment. Upon releasing the held button and/or pressing any other button on the remote control, the HMMWV M1045A2 TOW Missile Carrier will then restart again immediately.

IMPORTANT !

**DO NOT use this HMMWV
M1045A2 TOW Missile Carrier
for the first time until you have
charged the battery for 18 hours.**

Remember to...

- Û Charge the 12V battery immediately after each use.**
- Û Charge the 12V battery once a month during storage, even if the HMMWV M1045A2 TOW Missile Carrier has not been used.**

Failure to follow these instructions will permanently damage your 12V battery. Please refer to the Battery Care Section in this manual for more information.

Should you be missing parts, please seek assistance from the retailer of your purchase.



**Ultimate Solider® Consumer Relations
1-510-483-5700 ext. 28
9 AM - 5 PM EST, Monday through Friday.**

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