



**2004 General Motors  
Light Service Support Vehicle (LSSV)  
Military Truck Owner's Manual  
Supplement**

# 2004 General Motors Light Service Support Vehicle (LSSV) Military Truck Owner's Manual Supplement

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The information in this manual pertains to the operation of the vehicle. It also contains the vehicle's scheduled maintenance services. This manual along with the owner's manual will assist you in the proper use and maintenance of the vehicle. The sections in this supplement correspond to the sections in the 2004 Vehicle Owner's Manual and the 2004 Duramax Diesel Engine Owner's Manual Supplement.

Please keep this supplement with the owner's manual and diesel supplement in the vehicle, so it will be there if you ever need it while you're on the road.

This manual includes the latest information at the time it was printed. We reserve the right to make changes in the product after that time without notice.

## **How to Use This Manual**

Many people read the owner's manual from beginning to end when they first receive the vehicle. If you do this, it will help you learn about the features and controls for the vehicle. In this manual, you'll find that pictures and words work together to explain things.

## Index

A good place to look for what you need is the Index in back of the manual. It's an alphabetical list of what's in the manual, and the page number where you'll find it.

## Driving the Vehicle

As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or an accident. Refer to "The Driving, the Road and the Vehicle" and "Off-Road Driving with The Four-Wheel-Drive Vehicle" in the 2004 Vehicle Owner's Manual.

## Safety Warnings and Symbols

You will find a number of safety cautions in this book. We use a box and the word CAUTION to tell you about things that could cause personal injury if you were to ignore the warning.



### CAUTION:

**These mean there is something that could hurt you or other people.**

In the caution area, we tell you what the hazard is. Then we tell you what to do to help avoid or reduce the hazard. Please read these cautions. If you don't, you or others could be hurt.

## Vehicle Damage Warnings

Also, in this supplement manual you will find notices.

**Notice: These mean there is something that could damage the vehicle.**

In the notice area, we tell you about something that can damage the vehicle. Many times, this damage would not be covered by the warranty, and it could be costly. But the notice will tell you what to do to help avoid the damage.

When you read other manuals, you might see CAUTION and NOTICE warnings in different colors or in different words.

You'll also see warning labels on the vehicle. They use the same words, CAUTION or NOTICE.

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# Section 1 Seats and Restraints

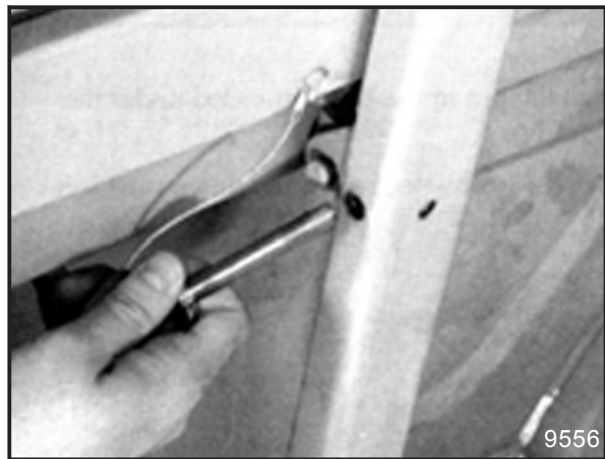
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## Troop Seats

If the vehicle is equipped with troop seats, this feature provides space for up to eight passengers in the cargo area of the pickup model. The seats can be lowered individually for use or raised for storage. The seats lock in both the up and down positions.

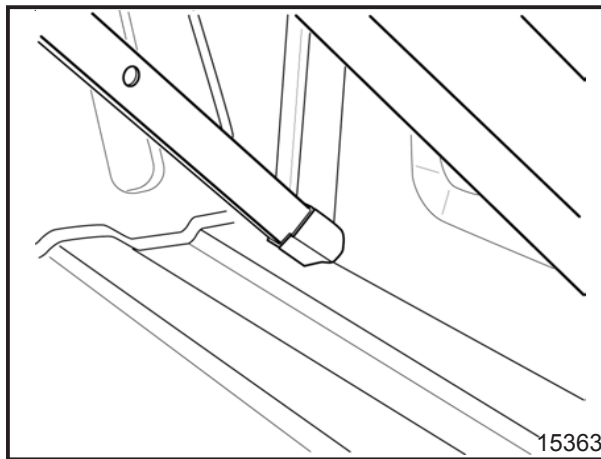
### Troop Seat Operation



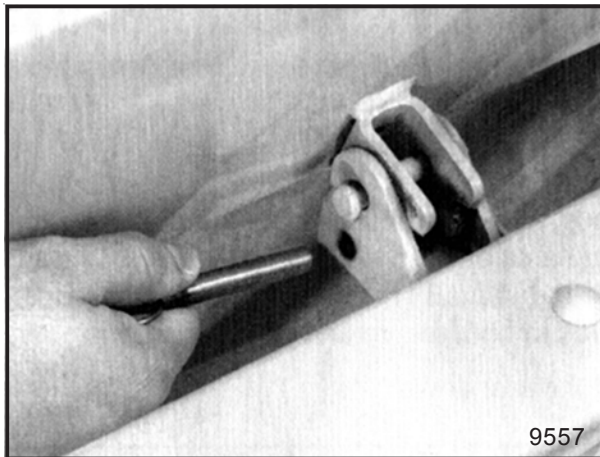
A quick-release pin is located on the left or right side of the troop seat leg immediately under the hinge pin.

When the seat is in the up position, the quick release pin will go through the left-hand leg for passenger's side seats or a right-hand leg for driver's side seats. It will then go through the seat channel and will be placed in front of the hinge pin.

### Folding the Seat Down



1. Remove the pin and place the legs into the joint of the cargo area side and the floor.



2. Place the pin in the hole provided under the hinge pin. The seat is now locked in the down position.

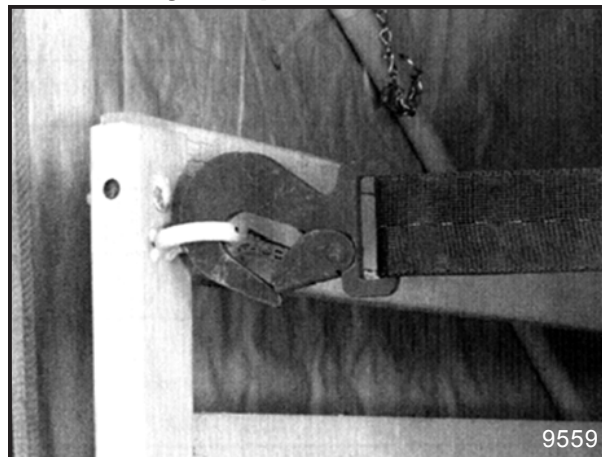
## Folding the Seat Up

Reverse Steps 1 and 2.

To remove the troop seats, refer to Seats in the 2004 LSSV Military Trucks service manual supplement.

## Restraints

### Rear Safety Strap



Whenever the troop seats are occupied, the safety strap should be attached across the top of the rear seat backs using the eye-bolts provided.



[illegible]

## Section 2    Features and Controls

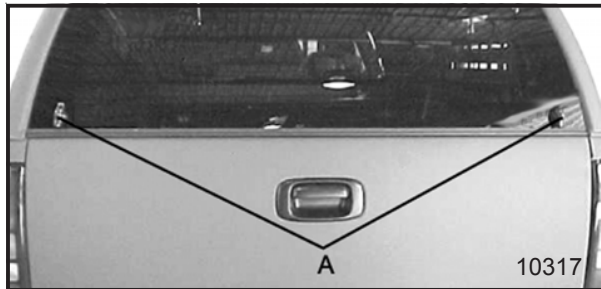
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# Windows

If the vehicle is equipped with a topper, it features tempered opening windows that have locking handles.

## Rear Topper Window



### Opening the Rear Window Door

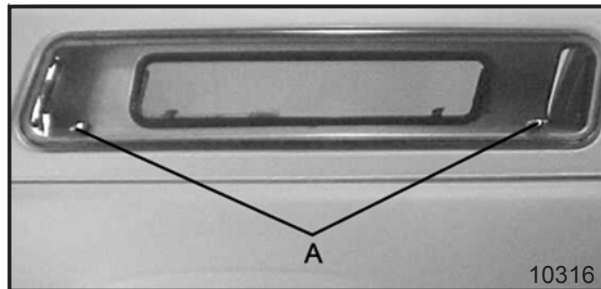
1. Turn both handles (A) clockwise 90°.
2. Pull open the rear window door. A cylinder on both sides of the window will assist with opening and hold the window in the open position.

### Closing Rear Window Door

1. Pull the window door down.
2. Turn both handles (A) counter clockwise 90°.

**Notice:** The window must be fully closed before operation of the vehicle.

## Side Topper Window



### Open the Side Window Doors

1. Turn both handles (A) clockwise 90°.
2. Pull open the window door. A cylinder on both sides of the window will assist with opening and hold the window in the open position.

### Closing the Side Window Doors

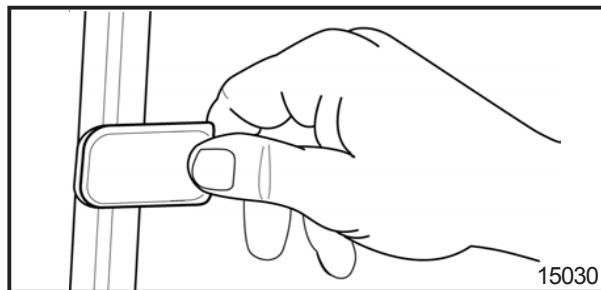
1. Pull the window door down.
2. Turn both handles (A) counter clockwise 90°.

**Notice:** The window must be fully closed before operation of the vehicle.

## Sliding Rear Window

If the vehicle is equipped with a sliding rear window, it features tempered glass surrounded by a durable black finish aluminum frame and three panel design. Locking latch adds cab security.

To open the window hold the latch in the open position and slide the window open. To close the window slide the window until the latch is fully engaged against the frame.



## Starting and Operating the Vehicle

### Starting the Engine

The diesel engine starts differently than a gasoline engine.



#### **CAUTION:**

**Do not use gasoline or starting “aids,” such as ether, in the air intake. They could damage the engine. There could also be a fire, which could cause serious personal injury.**

Refer to the 2004 Duramax Diesel Engine Owner's Manual Supplement, located in the glove compartment.

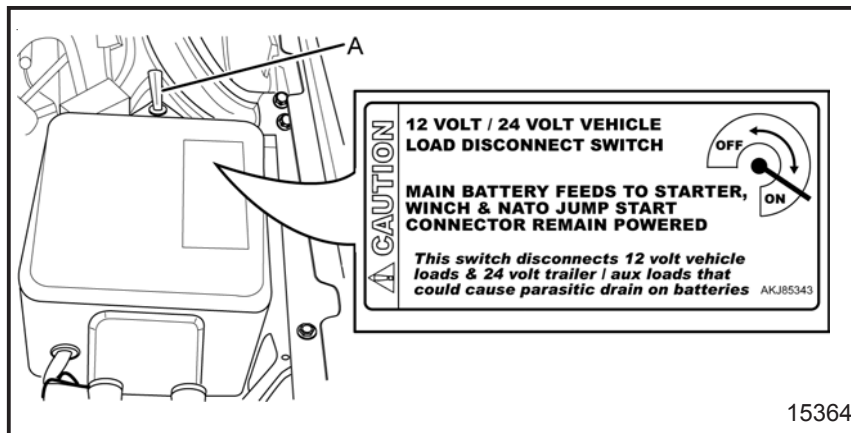
## Vehicle Load Disconnect Switch

If the vehicle is equipped with a load disconnect switch, the switch disconnects 12-volt vehicle loads and 24-volt trailer/aux loads that could cause a parasitic drain on the batteries.

The switch should be placed in the OFF position when the vehicle is parked for an extended period of time.

The load disconnect switch is located on the underhood fuse block. The underhood fuse block is located on the driver's side of the vehicle, to the rear of the battery.

***Notice: The main battery feeds to starter and NATO jump start connector remain powered.***

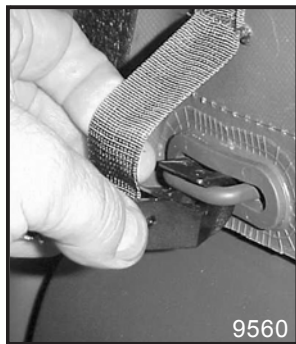


## Storage Areas

### Cargo Cover-Soft Top

If the vehicle is equipped with a soft top cargo cover, it must be fully installed and properly anchored before traveling on the highway. The side panels and rear panel of the cargo cover can be rolled up. The cargo cover allows ventilation within the closed portion through opening vents located on the front of the top.

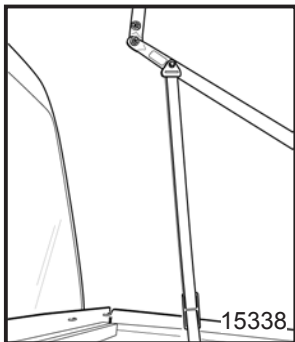
#### Rolling Up the Side Panels:



1. Release tension on the hooks by pushing the release on the front of the hook.
2. Remove the plastic hook from the bed fastener.
3. Pull apart the velcro flaps on both side panels near the vehicle cab.
4. Pull apart the velcro flaps on both side panels near the back of the vehicle.
5. Roll the sides upward.
6. When the sides reach the top, they can be held in place by inserting the cargo cover straps in the clips at the top of the cargo cover.

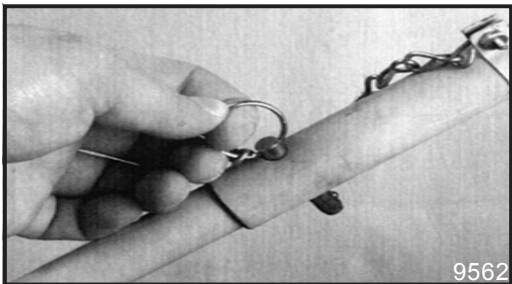
#### Storing the Cargo Cover:

1. Release tension on the hooks by pushing the release on the front of the hook.
2. Remove the plastic hook from the bed fastener.
3. Pull apart the velcro flaps on both side panels near the vehicle cab.
4. Pull apart the velcro flaps on both panels near the back of the vehicle.
5. Release the six cover straps, located inside the cargo box that attaches the cover to the cargo cover bows.
6. Remove the cover from the cargo cover bows.
7. Fold the cover neatly and store it behind the seat in the truck cab.

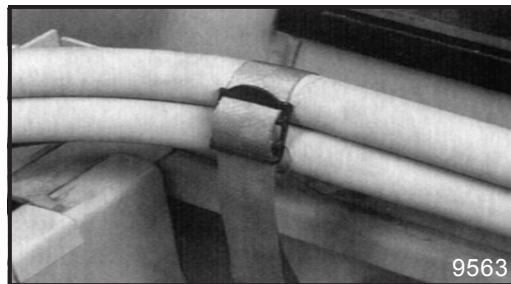


8. Release the four corner support straps.

10. Stack the bows on top of each other without striking the cab or the troop seats (if equipped), push down equally on both sides of the upper part of the front and rear bows.
11. Pull upward equally on both sides of the upper part of the center bow.
12. Standing at the rear of the vehicle, push the bows forward.



9. Remove the six quick release pins from the sides of the cargo cover bows.



13. Secure the bows in place with the front support straps.
14. To reinstall the cargo cover, reverse Steps 1 - 13.

Note: The cargo cover is marked with the word FRONT on the inside top to aid in proper positioning of the cover onto the vehicle.

## Weapons Mount

### Weapon Mount (Floor Mount)

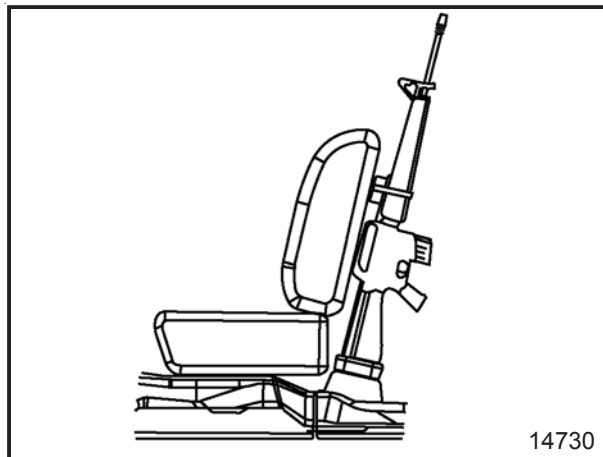


#### CAUTION:

If the weapon is improperly stored, it can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to secure any such item properly. The weapon should be made safe when stored in this mount.

The floor mount weapon mount is located behind the front seats and will secure two weapons.

## Mounting the Weapon



1. Place the stock of the weapon into the lower mount.
2. Place the barrel into the upper mount until fully seated in the clamp.
3. Secure with strap and pull to tighten. Pull the strap outward and slide it over the barrel of the weapon and secure the buckle by pulling tight.



## Weapon Mount (Cab Mount)

The cab mounted weapon mounts are located at the rear of the cab and will secure one weapon each.



### CAUTION:

If the weapon is improperly stored, it can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to secure any such item properly. The weapon should be made safe when stored in this mount.

## Lower Weapon Mount

To secure weapons in the vehicle's mount:



1. Place the stock into the lower weapon mount.

## Upper Weapon Mount



2. Place the barrel into the upper weapon mount until fully seated.
3. Pull the strap outward and slide it over the barrel of the weapon and secure the buckle by pulling tight.

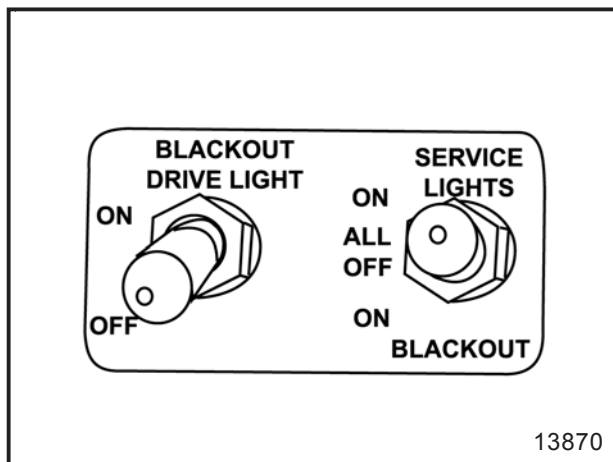
## Section 3 Instrument Panel

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# Exterior Lamps

## Service and Blackout Lighting



**Notice:** If the vehicle is not going to be driven for 24 hours or more, the service lights switch must be placed in the “ALL OFF” position. This will help prevent drain on the batteries.

**Notice:** Before normal driving operations, turn on service lights to ensure headlights, brake lights and turn signals are operational.

## Service Lights/Blackout Control

The switch located on the blackout switch panel next to the 24-volt gage is the service lights/blackout control.

With the Ignition Switch in the ON Position:

- Pull the switch outward then push upward to the service ON position. All normal service lamps will be operational with normal controls.
- Move the service lights/blackout switch to the center ALL OFF position. All lamps and accessory power to the vehicle will turn off.
- Move the switch to the blackout position, the following will occur:
  - The blackout lighting system will be operative.
  - The front and rear blackout marker lamps will illuminate.
  - The blackout stop lamps will illuminate when the brakes are applied.
  - The instrument panel warning lights will remain functional.

- The hazard lights will remain functional.
- The horn will not be functional.
- The switch will return to the center position automatically after you release it from either the ON or OFF position.

The vehicle's military 12-pin trailer wiring connector and trailer lamps are also controlled by this switch.

## **Blackout Drive Light Control**

The switch located on the blackout switch panel next to the service light switch is the blackout drive light control.

The service lights/blackout control switch must be in blackout position or in the down position for the blackout drive lights to function.

With the ignition switch in the ON position:

- Pull the switch outward then up to the ON position, the front blackout drive lamp will activate.
- Pull the switch outward then down to the OFF position, the blackout drive lamp will deactivate.

## Operating Service and Blackout Lighting

Exterior Lamp or Device	Service Lights/Blackout Switch	Blackout Drive Light Switch
Headlamps and Taillamps	SERVICE ON	OFF
Parking Lamps	SERVICE ON	OFF
Front/Rear Side Marker Lamps	SERVICE ON	OFF
Marker Lamps; Roof, Fender and End Gate	SERVICE ON	OFF
Stop Lamps	SERVICE ON	OFF
Back-Up Lamps	SERVICE ON	OFF
License Plate Lamps	SERVICE ON	OFF
Front/Rear Turn Signals	SERVICE ON	OFF
Hazard Warning Lamps	SERVICE ON	ON/OFF
Cargo Lamp (If Equipped)	SERVICE ON	OFF
Horn	SERVICE ON	OFF
Front/Rear Blackout Marker Lamps	BLACKOUT	ON/OFF
Blackout Stop Lamps	BLACKOUT	ON/OFF
Blackout Drive Lamp (Headlamp)	BLACKOUT	ON

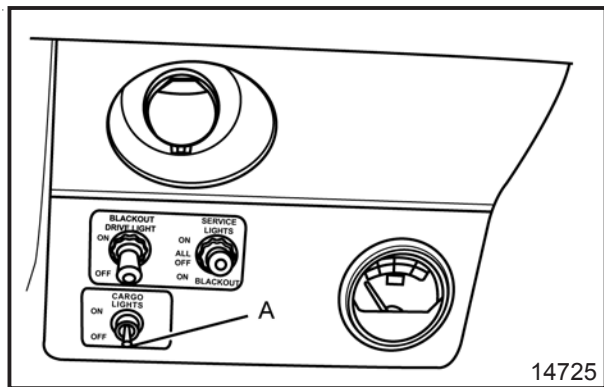
<b>Exterior Lamp or Device</b>	<b>Service Lights/Blackout Switch</b>	<b>Blackout Drive Light Switch</b>
Instrument Panel/Switch Illumination	SERVICE ON	OFF
Radio/Clock Illumination	SERVICE ON	OFF
Headlamp High-Beam Indicator	SERVICE ON	OFF
Turn Signal/Hazard Warning Indicators	SERVICE ON	OFF
Four-Wheel-Drive Indicator	SERVICE ON	ON
Dome/Courtesy Lamps	SERVICE ON	OFF
Glove Compartment Lamp	SERVICE ON	OFF
Warning Chime: Headlamps On, Instrument Cluster Warning Lights	SERVICE ON	ON/OFF

<b>Mechanical Device</b>	<b>Service Lights/Blackout Switch</b>	<b>Blackout Drive Light Switch</b>
Automatic Transmission Shift Lock Control	SERVICE ON	ON/OFF
Torque Converter Lockup Clutch	SERVICE ON	ON/OFF

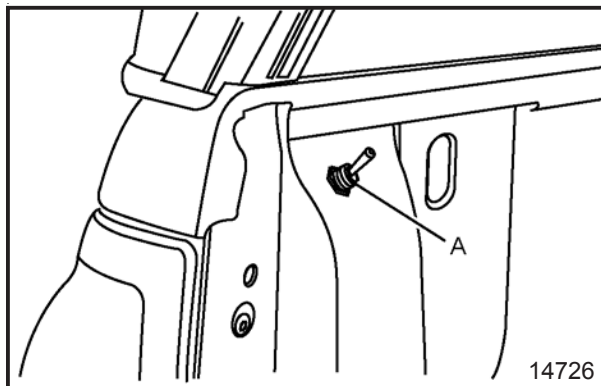
## Interior Lamps

### Topper Dome Lamp

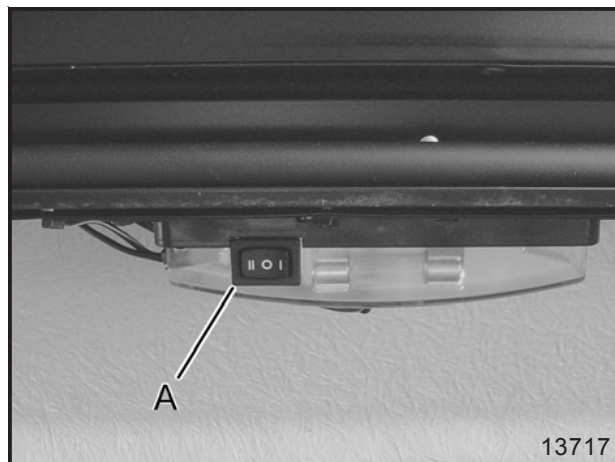
The fiberglass topper dome lamp is controlled by a master switch on the side of the dome lamp and a pair of 3-way switches.



The interior 3-way switch (A) is located on the blackout switch panel.



The bed mounted 3-way switch (A) is located in the left rear of the cargo bed.



The topper mounted master switch (A) is located on the rear center of the topper roof. If the master switch is turned OFF the following will occur:

- The interior mounted 3-way switch will not function.
- The bed mounted 3-way switch will not function.

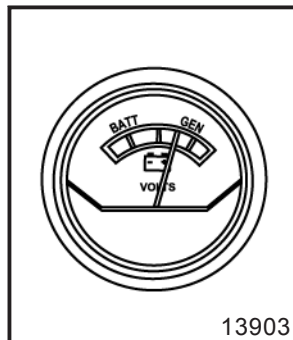
The dome lamp will not function in the blackout mode.

## Warning Lights, Gages and Indicators

### 24-Volt Gage

The 24-volt gage is located in the instrument panel next to the service and blackout lighting switch.

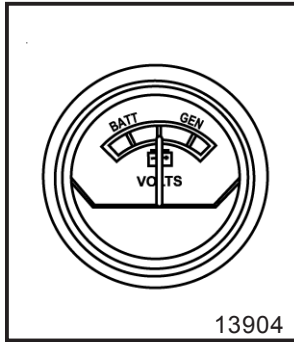
### Engine Running Reading



The gage needle should be in the green band when engine speed is above an idle. If the needle is not in the green band, the fuse may have blown. If the fuse is not blown and the system still does not work properly, refer to your local GM dealer.



## Engine Off Reading



In a no load situation, with the engine off, the gage needle should be mid-way between the red band and green band, in the yellow band. If the gage needle is in the lower end of the yellow band, this is unacceptable, and the battery may be dead.

## Section 4 Driving the Vehicle

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# Your Driving, the Road and the Vehicle

## Using JP8 as a Fuel

Use of JP8 fuel is acceptable in Duramax 6.6L diesel vehicles and will not impact warranty coverage.

For additional information on other compatible fuels, refer to the 2004 Duramax Diesel Engine Owner's Manual Supplement.

## Loading the Vehicle



### CAUTION:

Do not load the vehicle any heavier than the GVWR, or either the maximum front or rear GAWR. If you do, parts on the vehicle can break, or it can change the way the vehicle handles. These could cause you to lose control. Also, overloading can shorten the life of the vehicle.

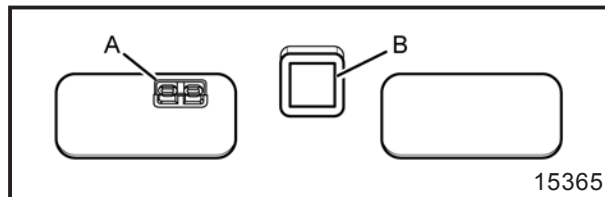
**Notice:** The warranty does not cover parts or components that fail because of overloading.

Make sure that all cargo is properly secured to prevent the load from shifting. All loads must be distributed evenly over the axle and secured to the tie-down rings provided. Refer to "Loading Your Vehicle" in the Index of the 2004 Vehicle Owner's Manual for more information on vehicle loading.

If the vehicle is equipped with troop seats, you can carry up to eight passengers. Passengers must stay seated at all times and the rear safety strap in place.

## Winch Provisions Front

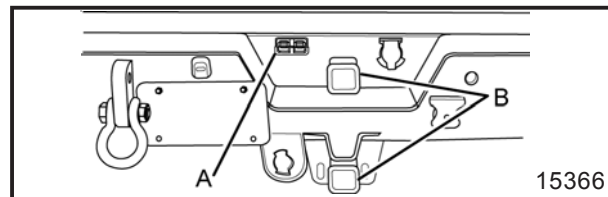
The front of the vehicle is equipped with a winch receiver (B) and a 12-volt quick disconnect (A) is provided to power the winch.



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## Rear

The rear of the vehicle's pintle hook mounts (B) can be used for the winch. The 12-volt quick disconnect (A) is provided to power the winch.



## If You Are Stuck: In Sand, Mud, Ice or Snow

### Using the Clevis/Towing Provisions

The vehicle is equipped with two clevises on the front and rear ends of the vehicle.



## CAUTION:

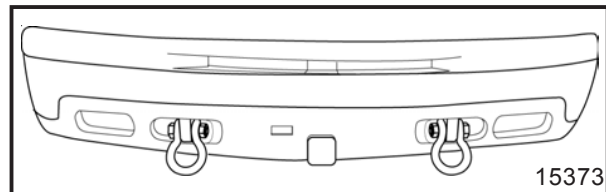
**The clevises when used, are under a lot of force. Always pull the vehicle straight out. Never pull on the clevises at a sideways angle. The clevises could break off and people could be injured from the chain or cable snapping back.**

When recovering the vehicle, you should determine the direction of the recovery by the distance required to free the vehicle and the surrounding terrain.

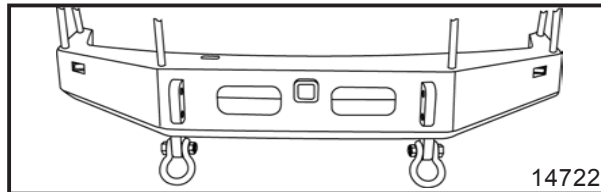
Secure the towing cable to both front or rear clevises with a V-device to gain an even pull on both anchor points and avoid damage to the vehicle.

## Front Clevis/Towing Provisions

Factory Bumper



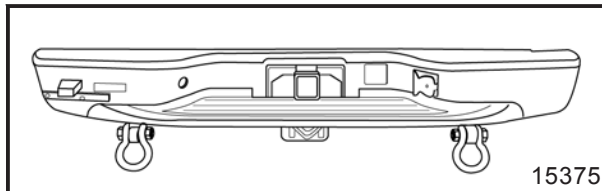
Military Bumper



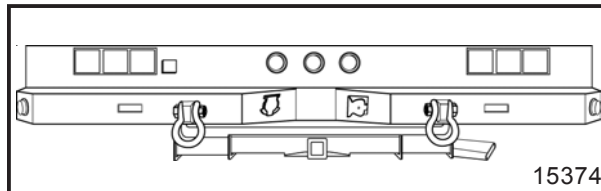
**Note:** Clevises meet MIL-209J for tie down specifications. **Vehicles do not meet MIL-209J for vehicle lifting.**

## Rear Clevis/Towing Provisions

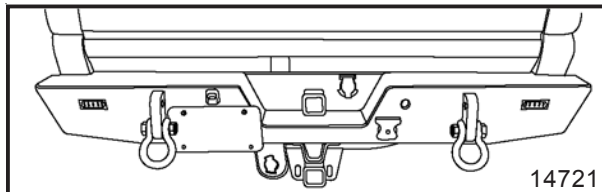
Factory Bumper



Maintenance Bumper



Military Bumper



**Note:** Clevises meet MIL-209J for tie down specifications. **Vehicles do not meet MIL-209J for vehicle lifting.**

## Towing

### Towing The Vehicle

When towing the vehicle, you should always use a properly equipped wrecker/recovery vehicle. Refer to “Towing Your Vehicle” and “Recreational Vehicle Towing” in the Index of the 2004 Vehicle Owner's Manual for further information on towing the vehicle.

**Notice:** The steering wheel must be secured properly with the appropriate wheel-locking device to keep the wheel in the straight position. The vehicle transfer case must be in NEUTRAL (N).

### Towing a Trailer

The vehicle is equipped for towing a trailer.

**Notice:** Do not exceed the maximum allowable weight the vehicle is designed to carry. Exceeding the maximum allowable weight may cause damage to the vehicle.

Refer to “Towing a Trailer” in the Index of the 2004 Vehicle Owner's Manual for more information on trailer towing.

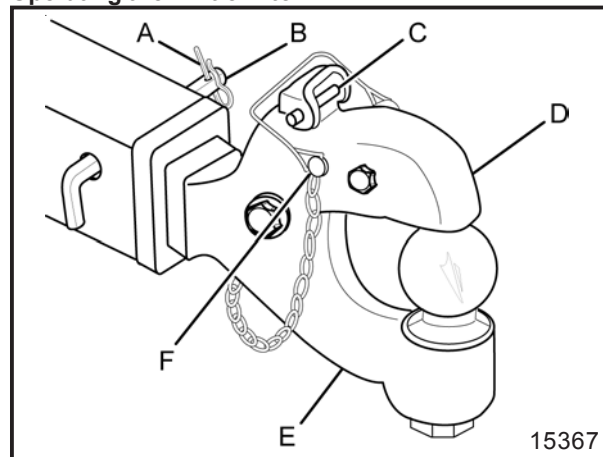
The vehicle is equipped with a pintle hitch for towing a trailer. You must not exceed the maximum trailer weight towing capacity for that vehicle. Refer to “Towing a Trailer” in the Index of the 2004 Vehicle Owner's Manual for additional information.

# Pintle Hitch

A pintle hitch is located at the rear of the vehicle, and is removable from the receiver.

**Notice:** Before operating, inspect for proper operation, worn, damaged or missing parts and secure mountings. Correct as required before use.

## Operating the Pintle Hitch:



## To Open:

1. Open the latch by removing latch pin (F).
2. Pull up on the lock latch (C) while lifting the latch (D).

## To Close:

1. Push the latch (D) until the lock latch (C) locks in place.
2. Install the latch pin (F).

## Installing the Pintle Hitch:

1. Remove any debris from the inside of the receiver.
2. Push the pintle hitch (E) into the receiver.
3. Install the retaining pin (B) into the receiver and the pintle hitch (E).
4. Install the spring clip (A) into the retaining pin (B).



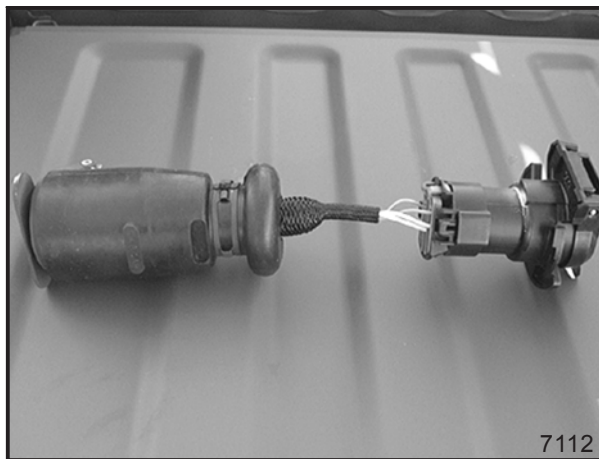
## Trailer Wiring Connector



The NATO standard 12-pin trailer lamp and brake connector is located on the rear bumper between the right clevis/tie-down and the pintle hitch.

When connecting a trailer wiring harness to the connector, make sure the dog ears of the connector are properly aligned when inserting it into the connector.

## Trailer Connector Adapter (Tahoe Only)



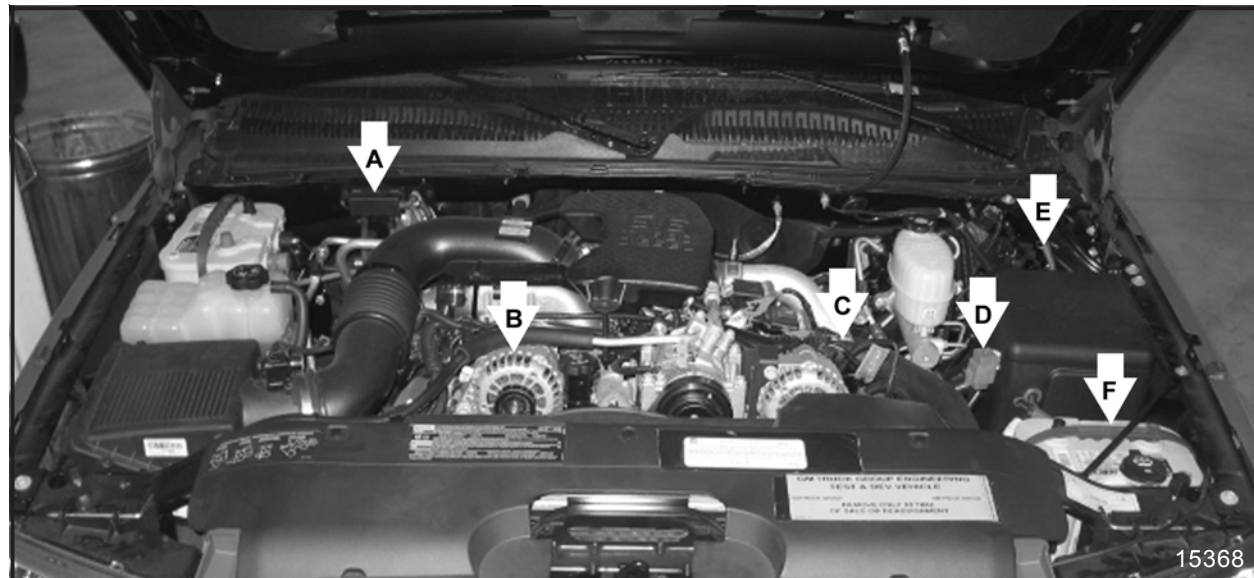
The vehicle may be equipped with a trailer connector adapter. When connecting to a commercial trailer with an 8-pin connector, the adapter must be used. This adapter allows you to connect an 8-pin trailer wiring harness into the vehicle's 12-pin connector.

## Section 5 Service and Appearance Care

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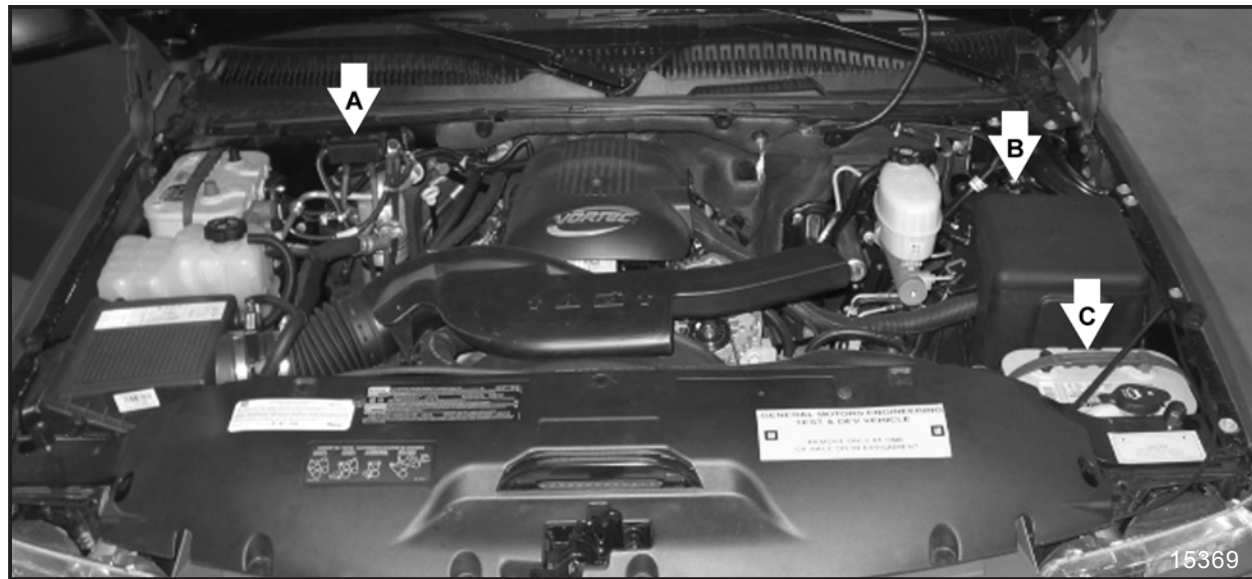
## Underhood Component Locator (Silverado)



The following items are military options that may be found on the 6.6L vehicle:

- |                                |                           |
|--------------------------------|---------------------------|
| A. Rear Winch Feed (12V Power) | D. 24-Volt Relay          |
| B. 24-Volt Generator           | E. Load Disconnect Switch |
| C. 24-Volt Generator Fuses     | F. 24-Volt Battery        |

## Underhood Component Locator (Tahoe)



The following items are military options that may be found on the 5.3L vehicle:

- A. Rear Winch Feed (12V Power)
- B. Circuit Breakers
- C. 24-Volt Battery

## Jump Starting

If the battery (or batteries) on the vehicle have run down and the vehicle will not start, you may want to use another vehicle to provide power to start the vehicle.

NATO slave cables are the only recommended method for 24-volt jump starting of the vehicle. You should only use NATO slave cables to jump start similar vehicles.

Heavy duty jumper cables can be used to jump start the 12-volt system. See Jump Starting from a 12-volt System.

## Jump Starting from a 12-Volt System



### CAUTION:

**Batteries can hurt you. They can be dangerous because:**

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

**If you do not follow these steps exactly, some or all of these things can hurt you.**

**Notice:** Ignoring these steps could result in costly damage to the vehicle that would not be covered by the vehicle warranty. Trying to start the vehicle by pushing or pulling it will not work, and it could damage the vehicle.

This procedure applies only to the underhood battery located on the passenger's side of the vehicle.

1. Get the vehicles close enough so that jumper cables can reach, but be sure the vehicles are not touching each other. If they are, it could cause a ground causing the vehicle not to start. The bad grounding could damage the electrical systems.

To avoid the possibility of the vehicles rolling, set the parking brake firmly on both vehicles involved in the jump start procedure. Put the automatic transmission in PARK (P). Be sure the transfer case is in a drive gear and is NOT in NEUTRAL (N).

2. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or accessory power outlets. Turn off all lamps that are not required as well as radios. This will avoid sparks and help save both batteries. In addition, it could save the radio!

**Notice:** If you leave the communications/navigation equipment on, there is a risk that they could be badly damaged. The repairs will not be covered by the warranty.

3. Ensure the jumper cables do not have loose or missing insulation. If they do, you could get shocked and the vehicle could be damaged.

Before you connect the cables, here are some basic things you should know. Positive (+) will go to positive (+). Negative (-) will go to a heavy, unpainted metal engine part or a remote negative (-) terminal if the vehicle has one.

4. Open the hood and locate the battery. Find the positive (+) and negative (-) terminals on each battery.



## CAUTION:

Using a open flame near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.

Be sure the batteries have enough water. You don't need to add water to the Optima battery (or batteries) installed in every vehicle. But if a battery has filler caps, be sure the right amount of fluid is there. If it is low, add water to take care of that first. If you do not explosive gas could be present.

Battery fluid contains acid that can burn you. Do not get it on you. If you accidentally get it in the eyes or on the skin, flush the place with water and get medical help immediately.

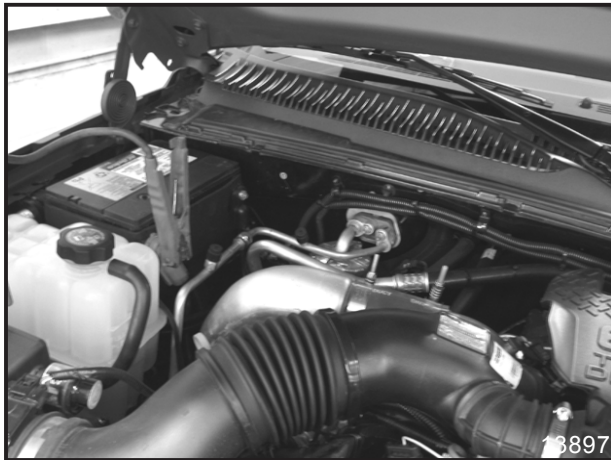


## CAUTION:

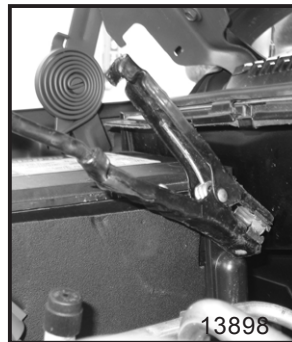
Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.



5. Connect the positive (+) cable to the positive (+) terminal of the 12-volt battery (12-volt side) of the vehicle with the dead battery.



6. Connect the positive (+) cable to the positive (+) terminal 12-volt system of the vehicle with the good battery.



7. Connect the negative (-) cable to the negative (-) terminal of the 12-volt system of the vehicle with the good battery.

Do not let the other end touch anything until the next step. The other end of the negative (-) cable does not go to the dead battery. It goes to a heavy unpainted metal part of the engine in the vehicle with the dead battery.

8. Attach the cable at least 18 in (45 cm) away from the dead battery, but not near engine parts that move. The electrical connection is just as good there, but the chance of sparks getting back to the battery is much less.

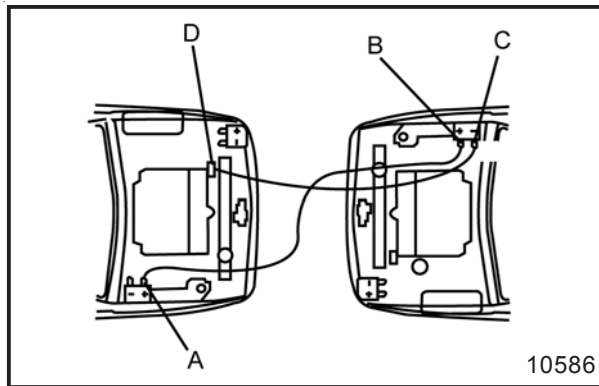




9. Start the vehicle with the good battery. Allow the vehicle's battery to charge for 10 minutes before attempting to start the vehicle.

**Note:** It may take up to 30 minutes to charge the battery enough to start the vehicle, depending on the battery's state of charge.

10. Start the vehicle with the dead battery.
11. Remove the cables in reverse order to prevent electrical shorting. Take care that they do not touch each other or any other metal.



- A. 12-Volt Positive (Dead Battery)
- B. 12-Volt Positive (Good Battery)
- C. 12-Volt Negative (Good Battery)
- D. Engine Ground (Dead Battery)

If this procedure does not work, you will need to disconnect the left front underhood battery and charge it alone for 10 minutes. Reconnect the battery and repeat the jump starting procedures as outlined.

**Note:** This procedure should only be performed by authorized personnel.

## Slave Starting Using 24V NATO Connector



### CAUTION:

**Batteries can hurt you. They can be dangerous because:**

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

**If you do not follow these steps exactly, some or all of these things can hurt you.**

**Notice:** Ignoring these steps could result in costly damage to the vehicle that wouldn't be covered by the vehicle warranty. Trying to start the vehicle by pushing or pulling it will not work, and it could damage the vehicle.

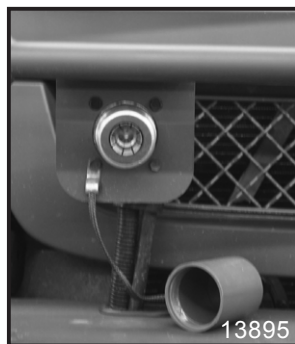
You should only use the NATO slave receptacle and slave cable when performing this operation.

1. Get the vehicles close enough so that the slave cable can reach, but be sure the vehicles are not touching each other. If they are, it could cause a ground connection causing the vehicle not to start, and the bad grounding could damage the electrical systems.

To avoid the possibility of the vehicles rolling, set the parking brake firmly on both vehicles involved in the jump start procedure. Put the automatic transmission in PARK (P). Be sure the transfer case is in a drive gear and is NOT in NEUTRAL (N).

2. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or accessory power outlets. Turn off all lamps that aren't needed as well as radios. This will avoid sparks and help save both batteries. In addition, it could save the radio!

**Notice:** If you leave the communications/navigation equipment on, they could be badly damaged. The repairs will not be covered by the warranty.



3. Locate the slave receptacles on both vehicles and unscrew the cover.



## CAUTION:

**Using a open flame near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.**

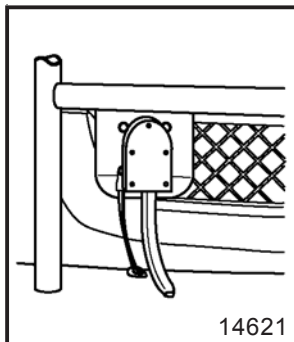
**Be sure the batteries have enough water. You don't need to add water to the Optima battery (or batteries) installed in every vehicle. But if a battery has filler caps, be sure the right amount of fluid is there. If it is low, add water to take care of that first. If you do not, explosive gas could be present.**

**Battery fluid contains acid that can burn you. Do not get it on you. If you accidentally get it in the eyes or on the skin, flush the place with water and get medical help immediately.**



## CAUTION:

**Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.**



4. Connect the slave cable to the vehicle with the dead battery.
5. Connect the slave cable to the vehicle with the good battery.

6. Start the vehicle with the good battery.
7. Allow the vehicle with the dead battery to charge for 10 minutes.

**Note:** It may take up to 30 minutes to charge the battery enough to start the vehicle, depending on the battery's state of charge.

8. Start the vehicle with the dead battery.
9. Remove the slave cable in the reverse order that it was installed. Take care not to let the cable ends touch each other or any other metal.

## Vent Filters

### Rear Axle Vent-Tube Filter

The rear axle vent-tube filter is located on the vent hose that is attached to the top of the axle housing.

Refer to the Maintenance Schedule to determine how often to inspect the filter and when to change it. See Front/Rear Axle Inspection.

### Transfer Case Vent-Tube Filter

The transfer case vent-tube filter is located on the vent hose on the driver's side of the transfer case housing.

Refer to the Maintenance Schedule to determine how often to inspect the filter and when to change it. See Transfer Case Inspection.

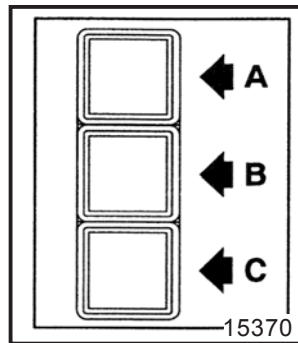
### Front Axle Vent-Tube Filter

The front axle vent-tube filter is located vent hose on the in the engine compartment near the left inner wheel well.

Refer to the Maintenance Schedule to determine how often to inspect the filter and when to change it. See Front/Rear Axle Inspection.

## Bulb Replacement

### Taillamps (Maintenance Body)

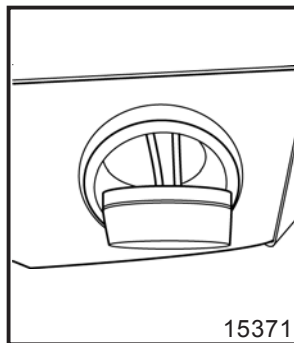


- A. Turn Signal Lamp
- B. Stoplamp
- C. Back-up Lamp

1. Using your hands, peel the rubber seal away from the lens.
2. Lift the lens off the lamp assembly.
3. Pull the old bulb straight out from the socket.
4. Put a new bulb into the socket and press it in until it is tight.
5. Reinstall the lens and the lens seal.

### Marker Lamps (Maintenance Body)

**Note:** The bulbs in the marker lamps are not replaceable and are serviced as an assembly.



1. Using your hands, peel the lens out of the rubber seal.
2. Pull the wire connectors out from the back of the lens.
3. Push the wire connectors into the new lens.

4. Install the lens into the rubber seal.

### Marker Lamps (Blackout)

**Note:** The bulbs in the blackout tail/stop lamp and front marker lamps are light emitting diodes (LED) instead of incandescent bulbs. They are not replaceable and are serviced as an assembly. For bulb replacement refer to the 2004 LSSV Military Trucks Service Manual Supplement.

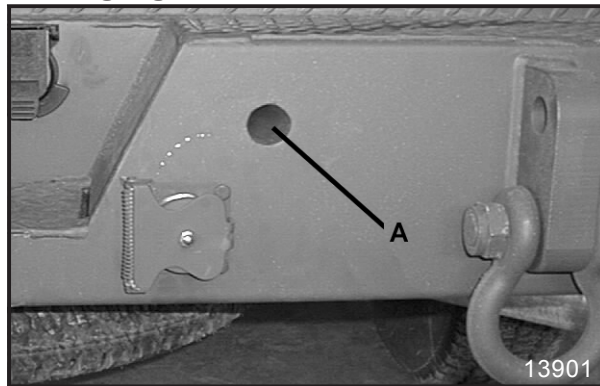
## Replacement Bulbs

Lamp	Bulb Number
Blackout Headlamp	1073
Topper Dome Lamp	194
24-Volt Gage Lamp	194
License Plate Lamp	194
Rear Turn Signal Lamp*	1156
Back Up Lamp*	1156
Tail and Stop Lamp*	1157
License Plate Lamp*	97
*Maintenance Body Models	

For bulbs not listed here refer to the 2004 Vehicle Owner's Manual.

## Tires

### Changing a Flat Tire



The military heavy duty bumper of the vehicle has an opening (A) to gain access to the spare tire hoist. For more information refer to “Changing a Flat Tire” in the Index of the 2004 Vehicle Owner's Manual.

## **Inflation-Tire Pressure**

Tire pressure should be within the manufacturer's recommended range as indicated on the certification/tire label which is on the drivers door edge. When hauling heavy loads the pressure should be at the maximum allowable pressure.

Refer to "Inflation-Tire Pressure" in the Index of the 2004 Vehicle Owner's Manual for additional information on tire inflation pressure.

## **Appearance Care**

### **Cleaning the Outside of the Vehicle**

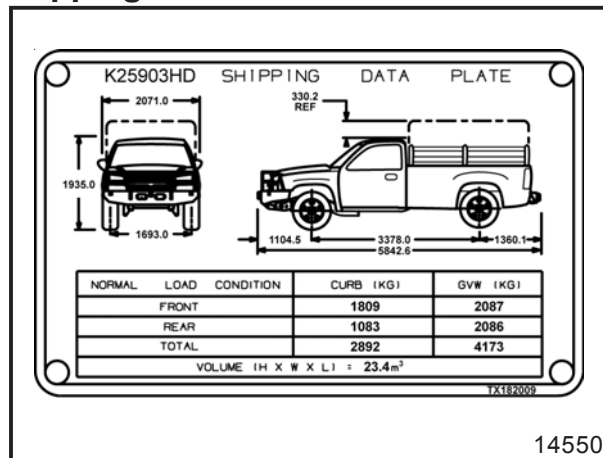
Wash the vehicle using only mild soap and water. Do not use cleaning agents that are petroleum based, or that contain acid or abrasives. All cleaning agents should be flushed promptly and not allowed to dry on the surface. Do not towel dry or wax the paint surface.

### **Cleaning the Soft Top (Cargo Cover)**

If the cargo cover has deteriorated, replace it. Refer to cargo cover replacement in the 2004 LSSV Military Trucks Service Manual Supplement.

The cargo cover is a waterproof, welded, plastic coated polyester. Wash the cover using only mild soap and water. Do not use cleaning agents that are petroleum based, or that contain acid or abrasives. All cleaning agents should be flushed promptly and not allowed to dry on the surface. Do not towel dry or wax the surface. The windows should be washed with a water soaked cloth. Do not rub dry.

## Vehicle Information Shipping Data Plate



The data plate is used to inform the operator of the vehicle as to the make, model, Gross Vehicle Weight (GVW), and vehicle dimensions. It is located on the left corner of the left front inner door panel.

## Government Vehicle Data Plate



The data plate is used to inform the operator of the vehicle as to the upfitting information and other specifications. It is located on the left front corner of the inner door panel.



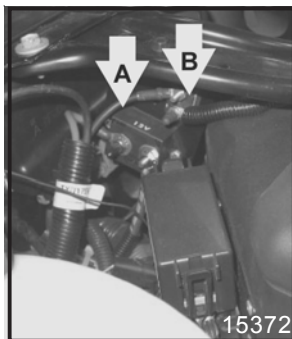
## Electrical System

### Fuses and Circuit Breaker

Circuit breakers protect the power accessories. When the current load is too heavy, the circuit breaker opens, protecting the circuit until the problem is fixed.

### Circuit Breaker (Tahoe Only)

This circuit breaker is on the left rear fender support bracket of the engine compartment.



- A. 12-Volt Stud to Inverter
- B. 24-Volt Stud to Inverter

### 24-Volt Power Source (Tahoe Only)



The DC/DC Inverter is located on the left rear panel of the cab. The primary function of the DC/DC Inverter is to provide 24V power. The DC/DC Inverter can deliver up to 40A of 24V current for applications such as two way radios, navigations or the 24-volt battery.

## Section 6    Maintenance Schedule

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# Maintenance Schedule

## Front/Rear Axle Inspection

Inspect the front/rear axle fluid level and add as needed. Inspect the constant velocity joints and axle seals for leakage.

The front and rear axles are equipped with an in-line filter on the vent tubes. Inspect the filters for blockages and replace as needed. See “Front Axle Vent-Tube Filter” and “Rear Axle Vent-Tube Filter” in the Index for further information on the location of the front and rear axle filters. Refer to “Maintenance Schedule” in the Index of the 2004 Vehicle Owner’s Manual for additional maintenance information on the vehicle.

## Transfer Case Inspection

Inspect the transfer case fluid level and add lubricant if necessary. On manual shift transfer case, oil the control lever pivot point and all exposed control linkage.

The transfer case is equipped with an in-line filter on the vent tube. Inspect the filter for blockages and replace as needed. Inspect vent hose at the transfer case for kinks and proper installation. See “Transfer Case Vent-Tube Filter” in the Index for further information on the location of the filter. Refer to “Maintenance Schedule” in the Index of the 2004 Vehicle Owner’s Manual for additional maintenance information on the vehicle.



# NOTES

## Section 7    Customer Assistance Information

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## Customer Assistance Information

For customer assistance phone numbers, refer to Contact Information.

To assist in our review of your concerns, provide the following information:

- The Vehicle Identification Number (this will be on the VIN plate in the cab of the vehicle)
- Current mileage on the vehicle
- Nature of the problem

## Contact Information

### Telephone Users

Department	Phone Number
GM Customer Assistance Center (general information, dealer location, other concerns)	1-800-222-1020
Roadside Assistance Center (towing and all Roadside Assistance program services)	1-800-243-8872

### Online Users

You can find specific information on:

- Service Parts
- After Sales Assistance
- GM Military History
- News/Events

Refer to the web for updated information:  
[www.gm-defense.com](http://www.gm-defense.com)

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