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OWNER'S MANUAL
and
SERVICE GUIDE



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6.7 Lighting for Operating Area

The user, in accordance with his responsibility to survey the environment and operating conditions, shall determine if the carrier requires lights and, if so, shall equip the carrier with appropriate lights.

6.8 Control of Noxious Gases and Fumes

When equipment powered by internal combustion engines is used in enclosed areas, the atmosphere shall be maintained within limits specified in the American Conference of Governmental Industrial Hygienists publication,:Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment." This may be accomplished by ventilation maintenance of emission control equipment recommended or provided by the manufacturer of the equipment.

6.9 Warning Device(s)

6.9.1 The user shall make periodic inspections of the carrier to be certain that the sound-producing and/or visual device(s) if so equipped are maintained in good operating condition.

6.9.2 The user shall determine if operating conditions require the carrier to be equipped with additional sound-producing or visual devices or both and be responsible for providing and maintaining such devices, in accordance with the manufacturer's recommendations.

6.10 Safety Interlocks

The user shall make periodic inspections of the carrier to be certain that the safety interlock system, if so equipped, is operating properly.

7 OPERATING SAFETY RULES AND PRACTICES

7.1 Personnel and Burden Carrier Operator Qualifications

Only persons whoa are trained in the proper operation of the carrier shall be authorized to operate the carrier. Operators shall be qualified as to visual, auditory, physical, and mental ability to safely operate the equipment according to Section 7, all other applicable parts of this Standard and the operators' manual.

7.2 Personnel and Burden Carrier Operators' Training

7.2.1 The user shall conduct an operators' training program.

7.2.2 Successful completion of the operators' training program by the operator shall be required before operation of the carrier. The program shall be presented in its entirely to all-new operators and not condensed for those claiming previous experience.

7.2.3 The user shall include as a minimum in the operators' training program the following.

a) Instructional material provided by the manufacturer including the operators; manual;
b) Emphasis on safety of passengers, material loads, carrier operator, and other person(s);
c) General safety rules contained within this Standard and the additional specific rules determined by the user in accordance with this Standard, and why they were formulated;
d) Introduction of equipment, control locations of the environment which could affect carrier operation;
e) Operator competency evaluations.

7.3 Personnel and Burden Carrier Operator Responsibility

7.3.1 General Operator Responsibility

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Accelerator Pedal

With the key switch 'ON', depressing the accelerator pedal starts the motor. When the pedal is released, the motor will stop (Ref Fig. 5 on page 3). To stop the vehicle more quickly, depress the foot brake.

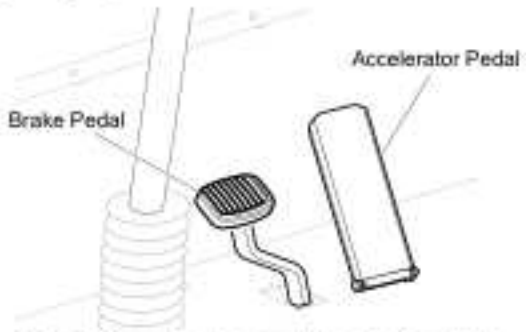


Fig. 5 Accelerator and Brake Controls

Brake Pedal

Depressing the foot operated brake pedal activates the brakes (Ref Fig. 5 on page 3).

Park Brake

The hand operated park brake is located between the front seats. The brake is engaged when the handle is raised and is disengaged when the handle is parallel to the panel. When leaving the vehicle unattended, engage the park brake by raising the handle until it is locked in place. To release the park brake, depress the release button in the end of the handle while slightly raising the handle, then lower the park brake handle.

Horn

The horn is operated by pushing the horn button located on the left side of the dash panel (Ref Fig. 3 on page 2)

Run - Tow/Maintenance/Storage Switch (48V PDS VEHICLES ONLY)

⚠ WARNING

To reduce the possibility of severe injury or death resulting from loss of vehicle control, consider the grade of the terrain the vehicle is on and set vehicle's park brake accordingly before switching the Run - Tow/Maintenance/Storage switch to the 'Tow/Maintenance/Storage' position. When in the 'Tow/Maintenance/Storage' position, the Anti-Roll Back and Walk-Away safety features of the PDS system no longer function.

4 PASSENGER MODEL

The 4 passenger model features a fold down cargo bed which when raised converts to a second row seating for two additional passengers. Be sure to fasten the seat back restraining strap when lowering the seat.

NOTE

Remember to deduct the weight of the driver and all passengers from the overall vehicle weight capacity.

48V PDS VEHICLES

⚠ CAUTION

Before attempting to move vehicle, move the Run-Tow/Maintenance/Storage switch to the 'Tow/Maintenance/Storage' position. Failure to do so could damage the controller or motor.

Before disconnecting or connecting a battery, or any other wiring, move the Run-Tow/Maintenance/Storage switch to the 'Tow/Maintenance/Storage' position.

After connecting a battery, or any other wiring, wait a minimum of 30 seconds before moving the Run-Tow/Maintenance/Storage switch to the 'Run' position.

The 48V PDS vehicle is equipped with a two position switch located under the passenger cargo deck (Ref Fig. 6 on page 3).

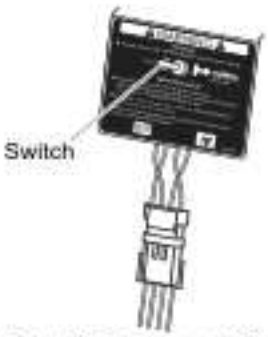


Fig. 6 Run-Tow/Maintenance/Storage Switch

With the switch in 'TOW/MAINTENANCE/STORAGE' position:

- the controller is deactivated
- the electronic braking system is deactivated which allows the vehicle to be moved or roll freely
- the warning beeper is deactivated

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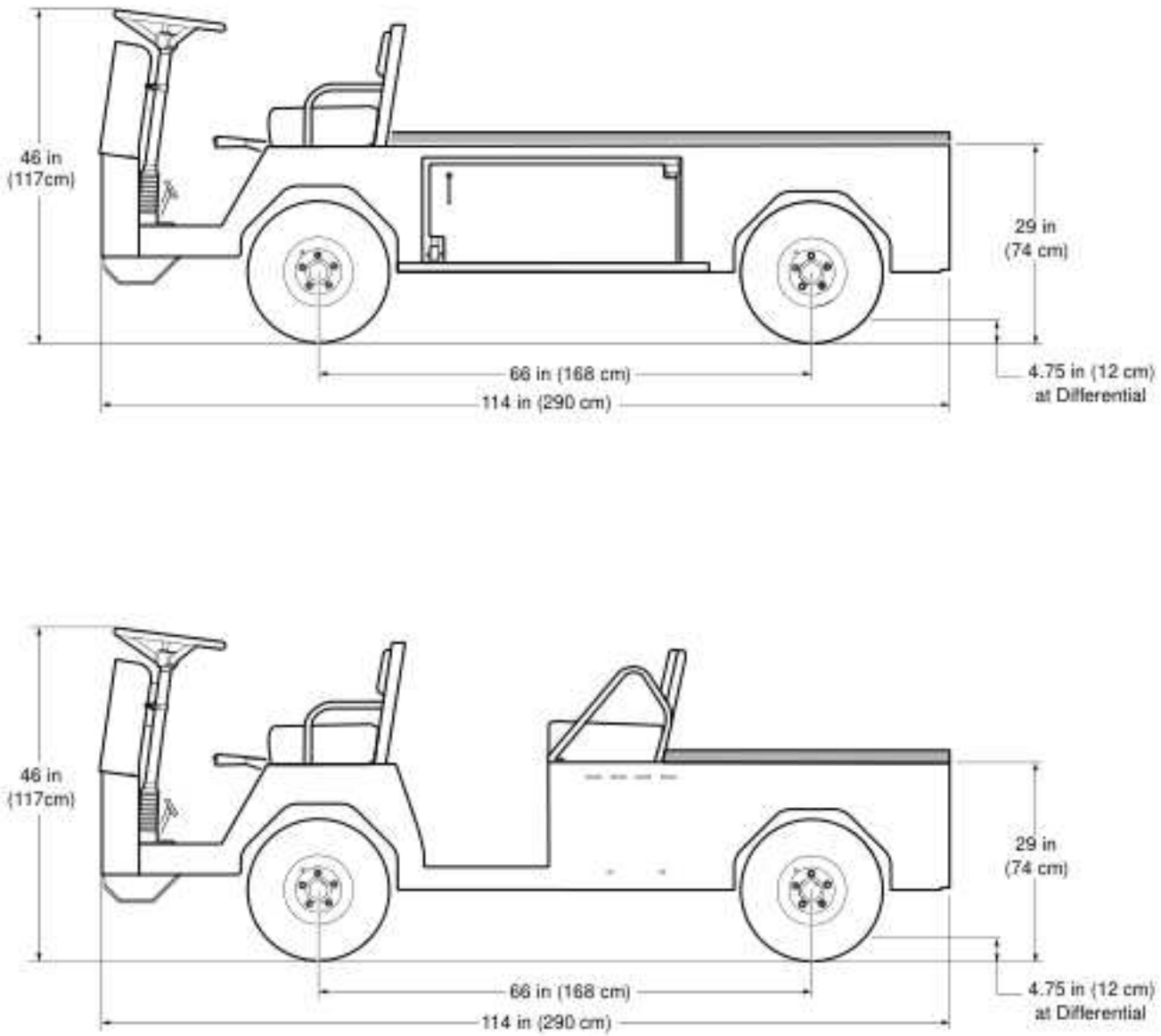


Fig. 30 Vehicle Dimensions

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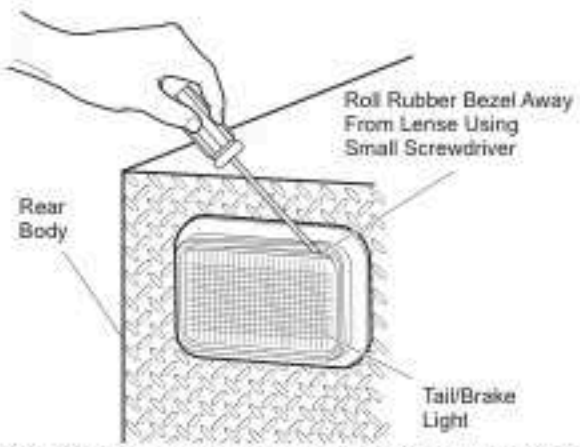


Fig. 11 Tail and Brake Light Bulb Replacement

To replace the tail and brake light bulb, insert a small screwdriver between the rubber bezel and the taillight lense. Roll the rubber bezel from around the edge of the lense and remove. Install replacement bulb and replace lens.

Headlight and taillight bulbs and fuses are available from a local Distributor, an authorized Branch or the Service Parts Department.

Fuse Replacement

To replace fuses, remove the load bed and remove the controller cover. Locate the fuse block in the electrical box adjacent to the controller. Pull out old fuse and replace with a new automotive type fuse.

TRANSPORTING VEHICLE

Towing

⚠ WARNING

This vehicle is not designed to be towed.

It is recommended that the vehicle be moved by placing the entire vehicle on a trailer, flatbed truck or other suitable transport.

⚠ CAUTION

For non-PDS vehicles, place direction selector in neutral position prior to moving to prevent possible damage to electric motor.

For PDS vehicles, place Run-Tow/Maintenance/Storage switch in 'Tow/Maintenance/Storage' position prior to moving to prevent damage to electric motor and controller.

PDS model vehicles are equipped with a 'Run-Tow/Maintenance/Storage' switch located below the rear of the load bed on the rear of the controller enclosure. The 'Tow/Maintenance/Storage' position allows the vehicle to roll freely without activating the warning beeper and eliminating potential damage to controller or motor (Ref Fig. 6 on page 3). Check to see that vehicles to be moved are switched to the 'Tow/Maintenance/Storage' position

⚠ WARNING

To prevent possible serious personal injury or death, never use ropes or chains to tow vehicle(s).

Hauling

⚠ WARNING

To reduce the possibility of severe injury or death while transporting vehicle:

Secure the vehicle and contents.

Never ride on vehicle being transported.

If the vehicle is to be transported at highway speeds, the sun top (if equipped) must be removed. When transporting vehicle below highway speeds, check for tightness of hardware and cracks in sun top at mounting points. Always remove windshield when transporting. Always check that the vehicle and contents are adequately secured before transporting. The rated capacity of the trailer or truck must exceed the weight of the vehicle (see GENERAL SPECIFICATIONS for vehicle weight) and load plus 1000 lbs. (450 kg). Lock the park brake and secure the vehicle using ratchet tie downs.

SERVICE AND MAINTENANCE

⚠ WARNING

To reduce the possibility of severe injury or death from improper servicing techniques:

Do not attempt any type of servicing operation before reading and understanding all notes, cautions and warnings in this manual.

Any servicing requiring adjustments to be

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With the switch in 'RUN' position:

- the controller is activated
- the electronic braking system and warning beeper features are activated

NOTE

PDS vehicles operate only in the 'RUN' position.

The PDS is a low power consumption unit but, it will drain the vehicle batteries over a period of time. If the vehicle is to be stored for a prolonged period of time, the PDS should be disconnected from the batteries. (Refer to Prolonged Storage on page 23)

OPERATING THE VEHICLE

⚠ CAUTION

Improper use of the vehicle or the lack of proper maintenance may result in decreased performance or damage to the vehicle.

Read and understand the following warnings before attempting to operate the vehicle:

⚠ WARNING

To reduce the possibility of severe injury or death resulting from loss of vehicle control, the following warnings must be observed:

Drive the vehicle only as fast as terrain and safety considerations allow. Consider the terrain, traffic conditions and the environmental factors which effect the terrain and the ability to control the vehicle.

Use extra care and reduced speed when driving on poor surfaces, such as loose dirt, wet grass, gravel, etc.

Avoid extremely rough terrain.

Avoid driving fast down hill. A sudden stop or change of direction may result in loss of control. Use foot brake to control speed when traveling down an incline.

To prevent loss of control, do not move the direction selector of a PDS vehicle while the vehicle is in motion. Moving the selector will result in a sudden slowing of the vehicle and the beeping of a warning device.

Slow down before and during turns. All turns should be executed at reduced speed.

All travel should be directly up or down hills.

Use extra care when driving the vehicle across any incline.

⚠ WARNING

Stay in designated areas and avoid steep slopes. To reduce the possibility of severe injury or death resulting from improper vehicle operation, the following warnings must be observed:

Refer to GENERAL SPECIFICATIONS for seating capacity.

Make sure that the direction selector is in correct position before attempting to start the vehicle.

Do not take vehicle out of 'gear' while in motion (coast).

Check the area behind the vehicle before operating in reverse.

Always bring the vehicle to a complete stop before shifting the direction selector.

Always remain seated and hold on while the vehicle is in motion. Keep feet, legs, hands and arms inside the vehicle at all times.

To prevent inadvertent movement when the vehicle is to be left unattended, engage the parking brake, move direction selector to neutral position, turn key to 'OFF' position and remove key.

Additional Warnings and Cautions (applicable to PDS vehicles)

⚠ WARNING

To prevent loss of control, do not move PDS vehicle direction selector while the vehicle is in motion. Moving the selector will result in a sudden slowing of the vehicle and the beeping of a warning device.

Permitting the vehicle to coast down an incline at speeds in excess of 2 mph (3 kph) with the accelerator pedal released after bringing the vehicle to a complete stop will cause an electronic braking force to be applied and a

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