

# LD-1: Gen 2 Operator Manual







www.tcburton.com

## **WARNING**

#### FAILURE TO FOLLOW SAFE OPERATING PRACTICES MAY RESULT IN SERIOUS INJURY OR DEATH

- Read this manual completely as well as the other manuals that came with your LD-1.
- Read the manual for your Polaris ATV.
- DO NOT OPERATE the LD-1 if any part of the LD-1 that has been damaged from a gunshot! Damaged components must be replaced immediately. Any other severe damage should be addressed immediately. Contact TC Burton Enterprises at customersupport@tcburton.com.
- Do not operate the LD-1 if any ballistic panel, ballistic glass, or any part of the frame becomes bent, broken or has been shot in any way.
- Do not remove any ballistic panels unless replacing after being damaged.
- Do not operate the LD-1 if any bolts are missing from the original assembly.
- DO not operate on steep slopes.
- Do not exceed the recommended maximum slope noted by Polaris in the operator manual provided by Polaris.
- Under no circumstances should the LD-1 be operated on slopes greater than 25 degrees.
- Allow for longer braking distances while operating the LD-1.
- Take extra caution on wet or slippery surfaces. This may reduce steering control and further increase braking distance.

#### REMEMBER – YOUR LD-1 IS ONLY AS SAFE AS THE OPERATOR

HAZARD CONTROL AND ACCIDENT PREVENTION ARE DEPENDENT UPON THE AWARENESS, CONCERN, PRUDENCE, AND PROPER TRAINING OF THE PERSONNEL INVOLVED IN THE OPERATION, TRANSPORT, MAINTENANCE, AND STORAGE OF THE EQUIPMENT.

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## 1.0 General Information

Congratulations on the purchase of your TC Burton Enterprises, LLC, model LD-1. This unit has been carefully designed to ensure maximum performance, dependability, and quality for years of use. This manual contains operating, maintenance, adjustment, and safety instructions for your LD-1.

#### BEFORE OPERATING YOUR LD-1, CAREFULLY READ THIS MANUAL IN ITS ENTIRETY.

By following the operating, maintenance, adjustment, and safety instructions, you will prolong the life of your LD-1, maintain its maximum performance, and promote safe operation.

If additional information is needed, you may contact us at customersupport@tcburton.com. Please have the serial # of your product ready. This will allow the representative to service your request as efficiently as possible.

Your serial # can be found on the under-side of the Back Panel Right Hand Top Rail Shown in Figure 1.0 below.

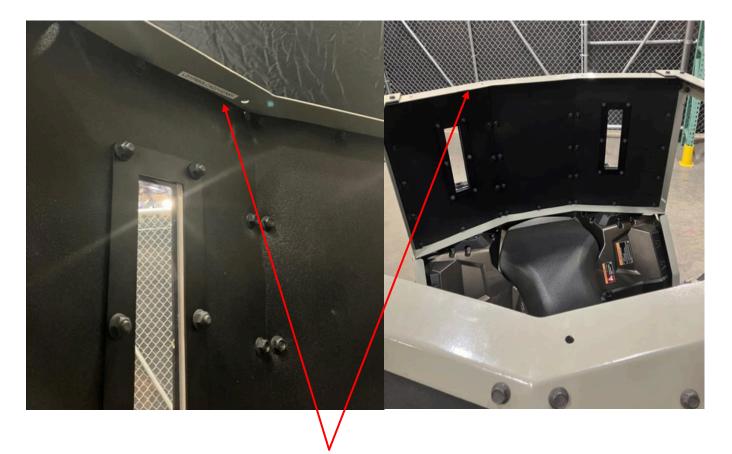


Figure 1.0: Serial Number Location: Back Panel (Right Rear) 18 digit, alphanumeric.

This manual is included with your LD-1 to help ensure that it is operated and maintained properly. Carefully reading and following instructions contained within this manual will help increase functionality and longevity of your LD-1. Electronic (PDF) copies of this manual can be found at TCBurton.com under the "Owner Info" tab.

If you have purchased an ATV with your LD-1, additional information regarding that unit can be found in the separate ATV Owner's Manual provided by the ATV manufacturer.

TC Burton Enterprises reserves the right to make necessary changes to the design without notifying previous owners. If you notice a change and need updated information, contact us at customersupport@tcburton.com. Be sure to check out the "Owner Info" tab on our website as well. As new model years are introduced, there may be some changes to the Operating Manual as well.

## 2.0 Safety

#### 2.1 Introduction

Read this manual and the operator manual for your Polaris ATV before attempting to operate your LD-1.

Failure to follow these instructions may result in serious injury or death. This manual is considered a part of the LD-1 and should always be kept nearby for reference.

Your machine is only as safe as the operator.

HAZARD CONTROL AND ACCIDENT PREVENTION ARE DEPENDENT UPON THE AWARENESS, CONCERN, PRUDENCE, AND PROPER TRAINING OF THE PERSONNEL INVOLVED IN THE OPERATION, TRANSPORT, MAINTENANCE, AND STORAGE OF THE EQUIPMENT.

Make sure every operator is properly trained and thoroughly familiar with all features and the safe operation of the LD-1 and associated purchased accessories before operating it. Copies of this manual can be downloaded at TCBurton.com on the "Owner Info" tab.

## 2.2 Signal Words (Warning Stickers)



This symbol means "Attention! Become Alert!" It appears when the following topic is extremely important to safety. Carefully read and understand each message involving this symbol.

#### SIGNAL WORD:

Signal Words are found on safety decals of the machine throughout this manual to alert the operator (reader of this manual) to the existence and relative degree of the hazard.



"DANGER" indicates that an extremely hazardous situation exists involving the machine that could result in a high probability of death or irreparable injury if proper precautions are not taken.



"WARNING" indicates that a hazard exists involving the machine that can result injury or death if proper precautions are not taken.



"CAUTION" is a reminder of safety practices involving the machine that could result in personal injury if proper precautions are not taken.

#### 2.3 Consideration Prior to Operation

- 1. Visually inspect the LD-1 for any damage to ballistic panels, ballistic glass, and frame. If any damage is found. DO NOT OPERATE the LD-1.
- 2. Visually inspect the LD-1 for any missing bolts from the original assembly. DO NOT OPERATE the LD-1 if any bolts are missing from the original assembly.
- 3. Only allow responsible individuals who are thoroughly familiar with all features and safe operation of the LD-1 and associated purchased accessories to operate the vehicle.
- 4. Never allow children to operate the LD-1.
- 5. Only one person (operator) should be inside the LD-1 cab.

- 6. Always wear a helmet suitable for an ATV when operating an LD-1. Refer to your Polaris Owner's Manual for further attire recommendations.
- 7. DO NOT OPERATE the LD-1 under the influence of alcohol or drugs.
- 8. If the operator(s) or mechanic(s) cannot read English, it is the owner's responsibility to explain this material to them.
- 9. Do not wear loose fitting clothing. Loose clothing, jewelry, and long hair can get tangled in mechanisms. Wear long pants, safety shoes, safety glasses and restrain all long hair.



Note: Always wear a helmet suitable for an ATV when operating an LD-1.

10. Under normal circumstances, keep the doors closed when operating the LD-1. The deployment of the doors should be done when the vehicle is in a stopped position. In the case where the doors are open for "cover", the machine should be operated at crawling speed, 2-4 mph. Under no circumstances should higher speed turns be taken with the doors deployed.



Note: Operating the LD-1 at above 2-4 mph with the doors open, especially in a turn can cause unpredictable handling and may result in loss of control resulting in serious injury or death.

#### 2.4 Safety During Operation

Familiarize all operators with the all features and safe operation of the LD-1 and associated purchased accessories before operating it.



Under no circumstances should the LD-1 be operated on slopes greater than 25 degrees. Take extra caution on wet surfaces. This may reduce steering control and increase braking distance.

The operator should allow for longer stopping distances on all surfaces as the LD-1 kit adds a static load to the ATV. Loose dirt, gravel, wet surfaces, downward slopes, icy conditions, or other slick surfaces may cause significantly longer braking distance as well as adversely affect handling.

Execute turns at a slower speed and drive smoothly thru turns. Do not accelerate with high throttle at any point throughout the turning process. Fast, erratic turns may result in loss of control and cause the machine to overturn.



Do not attempt to mount machine when it is already in motion. The optional T-Bar accessory should be mounted while the machine is stopped.

Use extra care when approaching blind corners, shrubs, trees, or other objects that could obscure vision.

#### **Hauling and Towing Cargo Reminders:**

- USE EXTREME CAUTION when operating with loads. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- Never exceed 50 mph (80 km/h) when rear cargo loads are above 75lbs (34kg) and/or front cargo loads are above 37 lbs. (17kg). NEVER exceed 15 mph when rear cargo loads are above 200 lbs (91kg) and /or front cargo loads are above 100lbs.

- Slow down.
- Use low forward gear when hauling/ towing heavy cargo in order to extend belt life.
- Always operate the machine with extreme caution when hauling loads or towing. Handling and control may be affected.
- Do not attach/ strap any load to be towed while connected to the optional T-bar accessory. It is only designed to have a person standing on it. It is NOT designed to pull loads.

#### 2.5 Slope Safety

Refer to your Polaris Owner's Manual for operation of this machine on slopes. See additional notes below.



Slopes are a major factor related to loss of control and rollover accidents, which can result in severe injury or death. The operator is responsible for safe slope operation. Operating the machine on any slope requires extra caution. Before using the machine on a slope, do the following:

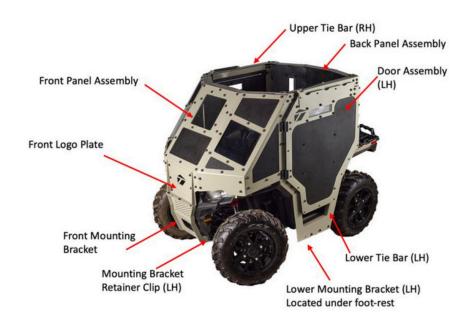
- Review and understand the slope instructions in the manual of your ATV.
- Use an angle indicator to determine the approximate slope angle of the area.
- Never operate the LD-1 on slopes greater than 25 degrees.
- Evaluate the site conditions of the day to determine if the slope is safe for machine operation. Use common sense and good judgement when performing this evaluation. Changes in terrain, such as moisture, can quickly affect the operation of the machine on a slope.
- Identify hazards at the base of the slope. Do not operate the machine near drop-offs, ditches, embankments, water, or other hazards. The machine could suddenly roll over if a wheel goes over the edge or the edge collapses. Keep a safe distance (twice the width of the machine) between the machine and any hazard.

Avoid starting, stopping, or turning the machine on slopes. Avoid making changes in speed or direction; turn slowly and gradually.

Do not operate the machine under any circumstances where traction, steering, or stability is in question. Be aware that operating the machine on wet grass or mud, across slopes, or downhill may cause the machine to unexpectedly lose traction. Loss of traction on the drive wheels can result in a slide and a loss of braking, even if the drive wheels are stopped.

## 3.0 Know Your LD-1

The diagrams below are designed to familiarize you with the components and their names that comprise your LD-1. Refer to the parts manual for further details on any component that may become damaged during use.





**Key notes:** Each component of the LD-1 has been carefully engineered for maximum performance and reliability. Any modification to the steel frame (exoskeleton) or any other part of the LD-1 may compromise the ballistic capability and structural prowess. Please contact <a href="mailto:customerservice@tcburton.com/">customerservice@tcburton.com/</a>with any inquiries.

### 4.0 LD-1 Operation

The LD-1 kit is designed to be intuitive and efficient. Most of the kit remains stationary while mounted to the ATV. The door operation has been especially designed with a pull cable latch system for quick deployment of the doors to a full 90-degree open position.

To open the door from the outside of the machine, reach over the Upper Tie Bar and pull the cable up while pulling slightly on the door. The integrated gas shocks will push the door open from there. See figure 2a below.



Figure 2a

To shut the door from the outside, simply push the door shut like you would with a car or truck.

To open the door from the inside of the LD-1, pull the latch cable down and push slightly on the door. The integrated gas shocks will push the door open from there. See figure 2b below.

To shut the door from inside the LD-1, pull on the door pull straps with a similar force as closing a car door until the latch engages in the close position. See Figure 2c below.





Figure 2b

Figure 2c

## 5.<u>0 Adjustments</u>

There should be minimal adjustments required during the life of your LD-1. If any bolts come loose on certain components, the operation of the LD-1 can be affected. Please follow the maintenance schedule strictly to maintain proper operating conditions and performance.

#### **Door Latch Adjustment:**

The doors should open and close smoothly. The door latch can be adjusted in or out by loosening the bolts shown below (Figure 3a). Once the latch position is adjusted to the desired position, retorque the bolts per the Torque Specification Table-A.

If the door is not hanging straight, the door hinge mounts to the frame can be loosened and adjusted some. See (Figure 3b) Door hinge bolts should be re-torqued per the Torque Specification Table-A. Please check for damages before making any adjustments.



Figure 3a

Figure 3b

#### 6.0 Maintenance

**Service Procedure:** See the Spare Parts and Component Installation Manual for information on ordering replacement parts and information on installation of genuine parts and accessories.



Do not drill, bend, or weld any part of the LD-1. This may degrade the capabilities and longevity of your LD-1. For upfit inquiries, please contact us at <a href="mailto:customersupport@tcburton.com">customersupport@tcburton.com</a>.

Only use genuine TC Burton Enterprises hardware, parts and accessories for your LD-1.



#### Glass Cleaning Instructions (per glass manufacturer):

Rinse sheet with lukewarm water and gently wipe with mild soap or detergent and lukewarm water using a soft cloth.

DO NOT SCRUB or use brushes or squeegees. Rinse again. Dry with soft cloth or moist cellulose sponge to prevent water spotting. To remove paint, glazing compound or grease, rub lightly with a good grade of VM&P naphtha or isopropyl then wash and rinse.

Do not use gasoline or ammonia.

NOTICE: Abusive cleaning procedures by hand washing or automated washing equipment will result in visual hazing, loss of light transmission and coating deterioration.

#### **Weekly Inspection**

Inspect surface of all steel components for any defects such as gouges or rusty areas. If the structure is dented or bent in any way, contact TC Burton Enterprises immediately at customersupport@tcburton.com. Note results of inspection.

Inspect the ballistic panels and ballistic glass surfaces for any scratches, cracks, or gouges.



Note: if there is damage to the outer surface (plastic cover) of the ballistic panel, please note to see if damage is deeper into the ballistic panel itself. If the ballistic panel has been damaged, contact <a href="mailto:customersupport@tcburton.com">customersupport@tcburton.com</a> for instruction/evaluation.

Inspect for any loose or missing nuts/ bolts throughout the LD-1. Tighten any loose bolts per the <u>Torque Specification Table-A</u> (on page 14). Replace any missing bolts or nuts ONLY with genuine TC Burton Enterprises hardware. DO NOT OPERATE the LD-1 if any bolts are missing from the original assembly.

#### Monthly Inspection & Bolt Torque (per Torque Specification Table-A, beginning on page 14)

Weekly Inspection Items plus:

- o Torque Mounting Bracket Retainer Clips. (1 bolt per side)
- o Torque Door Hinge bolts (4 hinges at 4 bolts each).
- o Torque Upper and Lower Tie Bars. (9 bolts per side for Lower Tie Bar, 8 bolts per side for the upper Tie Bar)
- o Lubricate door latch cylinder (apply light oil sparingly or non-silicone based spray lubricant)

#### **Annual Inspection & Bolt Torque**

Monthly Inspection & Bolt Torque Items plus:

Torque all machine bolts according to the Torque Specification Table-A

#### **TORQUE SPECIFICATION TABLE-A**

**NOTE:** These are dry bolt torque values. Do NOT add any aftermarket lubrication to nuts or bolts prior to installation. If lubrication is required to removed hardware, replace with new genuine TC Burton Enterprises spares. **NOTE:** keep watch when tightening bolt heads directly on ballistic material or plastic surfaces. Observe to ensure no distortion is present on the material.

**NOTE:** Do not over-torque bolts on the Glass Panel Retainers. This may cause the glass to fracture and lose its ballistic capability. If glass is ever damaged, replace the glass, gaskets and hardware immediately before using the LD-1 again.

All nuts should be snugged before final torque.

**NOTE:** the prevailing nuts used on this unit are meant to be used ONE TIME. If any nuts are removed from the machine, they should be replaced with new genuine TC Burton Enterprises hardware to ensure proper mechanical fastening properties.

Component Title Specification Wrench  Door MOLLE Panel M6 bolts 30 in-lb x  Door Perimiter M6 bolts 40 in-lb x  Door Glass Retainer M8 bolts 40 in-lb x  Door Ballistic Panel M10 bolts 90 in-lb x  Door Latch Cable M8 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Rear Panel Glass Retainer M8 bolts 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Glass Retainer M8 bolt 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Front Mount Bracket Lock 40 in-lb x  Fender Armor M6 Clamp Bolts 40 in-lb x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 M6 MOLLE hold-down nuts 30 in-lb x			_	1/4" drive 20-100	3/8" drive 20-100
Door MOLLE Panel M6 bolts 30 in-lb x  Door Perimiter M6 bolts 40 in-lb x  Door Glass Retainer M8 bolts 40 in-lb x  Door Hand Strap M8 bolt 40 in-lb x  Door Ballistic Panel M10 bolts 90 in-lb x  Door Latch Cable M8 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 40 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel M8 Clamp Bolts 45 ft-lb x  Front Mount Bracket 30 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (M0LLE) 90 in-lb x	Component	Title	Torque S pecif ication	in-lb Torque Wrench	ft-lb Torque Wrench
Door Perimiter M6 bolts 40 in-lb x  Door Glass Retainer M8 bolts 40 in-lb x  Door Hand Strap M8 bolt 40 in-lb x  Door Ballistic Panel M10 bolts 90 in-lb x  Door Latch Cable M8 bolts 90 in-lb x  Door Door Latch M10 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel M00 munting to front mount bracket 30 ft-lb x  Front Panel M00 M00 M00 M00 M00 M00 M00 M00 M00 M0	-	MOLLE Panel M6 bolts		х	
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Door Ballistic Panel M10 bolts 90 in-lb x  Door Latch Cable M8 bolts 90 in-lb x  Door Door Latch M10 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 perimeter lower 40 in-lb x	Door	Glass Retainer M8 bolts	40 in-lb	х	
Door Latch Cable M8 bolts 90 in-lb x  Door Door Latch M10 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 30 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x	Door	Hand Strap M8 bolt	40 in-lb	х	
Door Door Latch M10 bolts 20 ft-lb x  Door Hinges to Door 20 ft-lb x  Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 30 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x	Door	Ballistic Panel M10 bolts	90 in-lb	х	
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Door Hinges to Frame 30 ft-lb x  Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Ballistic Panel M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 40 in-lb x  Front Panel AR-500 retainer strips 45 ft-lb x  Front Panel AR-500 retainer strips 90 in-lb x	Door	Door Latch M10 bolts	20 ft-lb		Х
Door Door Extension Magnets 30 in-lb x  Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel M0unting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Door	Hinges to Door	20 ft-lb		х
Rear Panel Glass Retainer M8 bolts 40 in-lb x  Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Door	Hinges to Frame	30 ft-lb		х
Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Door	Door Extension Magnets	30 in-lb	х	
Rear Panel Hand Strap M8 bolt 90 in-lb x  Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  Fender Armor M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x					
Rear Panel Ballistic Panel M10 bolts 90 in-lb x  Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Front Panel Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Rear Panel	Glass Retainer M8 bolts	40 in-lb	х	
Rear Panel AR-500 retainer strips 90 in-lb x  Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Rear Panel	Hand Strap M8 bolt	90 in-lb	х	
Front Panel Glass Retainer M8 bolts 40 in-lb x  Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Rear Panel	Ballistic Panel M10 bolts	90 in-lb	х	
Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Rear Panel	AR-500 retainer strips	90 in-lb	х	
Front Panel Ballistic Panel M8 bolts 90-in-lb x  Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x					
Front Panel Ballistic Panel M10 bolts 90 in-lb x  Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Front Panel	Glass Retainer M8 bolts	40 in-lb	Х	
Front Panel AR-500 retainer strips 90 in-lb x  Mounting to front mount bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Front Panel			х	
Front Panel Bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Front Panel	Ballistic Panel M10 bolts	90 in-lb	Х	
Front Panel bracket 30 ft-lb x  Front Mount Bracket Lock M10 Mount Bolts 45 ft-lb x  Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	Front Panel	•	90 in-lb	х	
Front Mount Bracket Lock  M10 Mount Bolts  45 ft-lb  x  Fender Armor  M8 Clamp Bolts  20 ft-b  x  Fender Armor  M6 perimeter lower  M6 - uppper ballistic mount bolts (MOLLE)  90 in-lb  x	Eront Danol	1	20 ft lb		
Bracket Lock     M10 Mount Bolts     45 ft-lb     x       Fender Armor     M8 Clamp Bolts     20 ft-b     x       Fender Armor     M6 perimeter lower     40 in-lb     x       M6 - uppper ballistic Fender Armor     mount bolts (MOLLE)     90 in-lb     x	Front Panel	bracket	30 11-10		X
Fender Armor M8 Clamp Bolts 20 ft-b x  Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic mount bolts (MOLLE) 90 in-lb x	1				
Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic Fender Armor mount bolts (MOLLE) 90 in-lb x	Bracket Lock	M10 Mount Bolts	45 ft-lb		Х
Fender Armor M6 perimeter lower 40 in-lb x  M6 - uppper ballistic Fender Armor mount bolts (MOLLE) 90 in-lb x					
M6 - uppper ballistic Fender Armor mount bolts (MOLLE) 90 in-lb x	Fender Armor	M8 Clamp Bolts	20 ft-b		Х
Fender Armor mount bolts (MOLLE) 90 in-lb x	Fender Armor	M6 perimeter lower	40 in-lb	х	
	Fondor Armor	1 '''	00 in lh	v	
Fender Armor M6 MOLLE hold-down nuts 30 in-lb x	render Armor	mount boits (MOLLE)	מו-וזו טפ	X	
	Fender Armor	M6 MOLLE hold-down nuts	30 in-lb	х	

Upper Tie Bar	M10 mount bolts	45 ft-lb		x		
Lower Tie Bar	M10 mount bolts	30 ft-lb		х		
Window						
Extension	M10 frame mount bolts	30 ft-lb		х		
Window Extension	M8 glass mount bolts	40 in-lb	x			
	J					
Rear Roof						
Stansions	M10 mount bolts	20 ft-lb		х		
Roof panel Clamp	M8mount bolts	90 in-lb	x			
Roof panel corners	M6 mount bolts	40 in-lb	x			
X- Tweels	17mm bolts	45 ft-lb		х		
Winch	M10 mounting bolts	20 ft-lb		×		
			T T			
Shock Assembly	M10 bolt	38.5 ft-lb		х		

## 7.0 Storage

Wherever possible, the LD-1 should be stored indoors.

The LD-1 may be transported and used in any climate. Wherever possible, after use, clean and dry the entire unit.

The unit should be kept away from an open flame as the frame and outer ballistic skins maybe become damaged. If any outer ballistic skin is burnt/ melted, the inner ballistic panel must be inspected for damage. Prolonged fire can damage the construction of the ballistic panels as well as compromise the structural prowess of the steel frame.

When storing the LD-1, it is a good practice to store the unit under a dust cover to protect all surfaces from dust, dirt and other objects that can affect the paint finish or any other component.