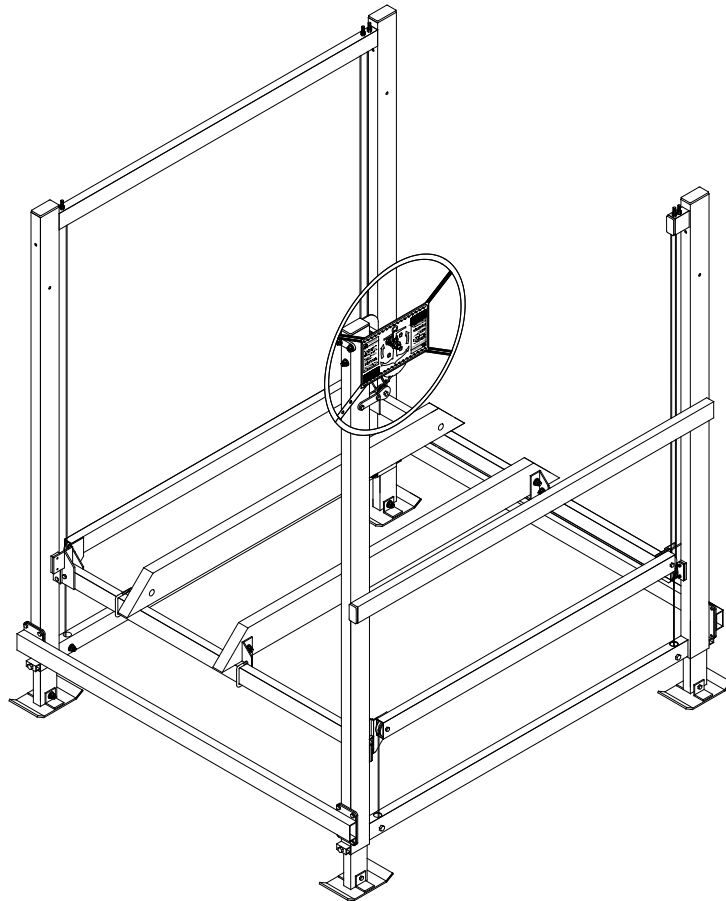




# VL1250 (2 X 4 LEG) VERTICAL LIFT INSTRUCTIONS



**REIMANN & GEORGER CORPORATION**  
**MARINE PRODUCTS**  
P/N 6112128

**BUFFALO, NY**  
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## PRE-LIFTING CHECKLIST

The lift and related equipment must be thoroughly inspected prior to each use. Only those who have read and understood this entire manual and related equipment manuals are qualified to do this inspection. This checklist is to be used as a guideline in conjunction with the maintenance and inspection procedures outlined in this manual. It is recommended that the inspection be maintained as a permanent record.

- Ensure the lift installation will clear all power lines and obstructions.
- Ensure all structural members of the lift are free of defects and damage that may affect the integrity.
- Ensure that an electric drive, if used, has been inspected and installed by a certified electrician in accordance with local electrical codes. A Ground Fault Circuit Interrupter (G.F.C.I.) must be installed by your electrician and work properly.
- Ensure that any user or dealer installed locking devices have been removed before operating the lift.
- Operate the lift first without, and then with, your boat on the platform to test the operation of both the lift and the winch.
- Ensure the boat is properly positioned on the lift before doing any raising or lowering.
- Ensure the lift is not being used beyond its rated capacity.
- Ensure any drain plug is in place on the boat before launching.
- Conduct the wire rope inspection procedure described in Chapter 5 at least monthly.
- Ensure the leg height has been properly adjusted according to the water depth.
- Ensure the frame and platform fastenings are tight.
- Ensure the frame is level and square according to the dimensions shown in Figure 3-5, Chapter 3.
- Ensure the cable end loops of the load and spreader tubes are fastened as described in platform assembly of Chapter 3.
- Ensure the cable studs opposite the cable end loops in the platform assembly are tight. If tightening is needed, follow the sequence described in Section 3.5 of Chapter 3. Then tighten the jam nuts to the cable nuts to lock the position.
- Ensure the winch is securely fastened to vertical leg "A".
- Ensure the handwheel has been attached to the winch hubplate.
- Ensure the spinner knob is attached to the handwheel using the preassembled hardware.
- Ensure the A-B load tube cable is properly reeved and fastened for correct winch operation.
- Ensure winch cable clamp is securing wire rope end to the drum is tight and in good condition.
- When facing the front of the handwheel, the wire rope must wind and unwind from the left side of the winch. This reeving raises the platform when turning the handwheel clockwise and lowers the platform when turning the handwheel counterclockwise. The brake pawl must click, meaning the brake is operative.
- Ensure the plastic caps are installed onto the tops of the vertical legs and the ends of the mid-height horizontal tube on the (AD) frame side assembly.

# 1 SAFETY

## 1.1 INTRODUCTION

Your Reimann & Georger Corporation Marine Products Aluminum Vertical Lift has been engineered to provide lifting performance, long term economics and safety advantages that no other type can match. However, even a well-designed and well-built lift can malfunction or become hazardous in the hands of an inexperienced and/or untrained user. Therefore, read this manual and the related equipment manuals thoroughly before operating your lift to provide maximum safety for all operating personnel, and to get the maximum benefit from your equipment.



### **WARNING:**

**DO NOT OPERATE THIS LIFT WITHOUT STUDYING THIS ENTIRE MANUAL. FAILURE TO DO THIS CAN LEAD TO EQUIPMENT MISUSE WITH RESULTING SERIOUS PERSONAL INJURY AND/OR DAMAGE. CONTACT YOUR RGC® MARINE DEALER IF YOU HAVE ANY QUESTIONS.**

## 1.2 SAFETY DEFINITIONS

A safety message alerts you to potential hazards that could hurt you or others or cause property damage. The safety messages or signal words for product safety signs are **DANGER**, **WARNING**, and **CAUTION**. Each safety message is preceded by a safety alert symbol and is defined as follows:

**DANGER:** Indicates an imminently hazardous situation which, if not avoided, **will** cause death or serious injury. This safety message is limited to the most extreme situations.

**WARNING:** Indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.

**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury. It may also be used to alert against unsafe practices and property-damage-only accidents.

## 1.3 EQUIPMENT SAFETY LABELS

These labels warn you of potential hazards that could cause injury. Read them carefully. If a label comes off or becomes illegible, contact a Reimann & Georger Corporation dealer for a free replacement.

## 1.4 EQUIPMENT AND PERSONNEL SAFETY

1. Do not use the lift if it shows any signs of damage.
2. Do not exceed the rated maximum lifting capacity of this equipment.
3. If using a motorized friction drive, understand the use of all controls and connections provided with it.



### **WARNING:**

**ALL ELECTRIC DRIVES MUST BE INSTALLED AND INSPECTED BY A CERTIFIED ELECTRICIAN IN ACCORDANCE WITH LOCAL ELECTRICAL CODES. THIS INSTALLATION MUST INCLUDE A PROPERLY WORKING GROUND FAULT CIRCUIT INTERRUPTER. (G.F.C.I.)**

4. Never try lifting anything other than a boat with this equipment.
5. Never allow people in the boat any time it is suspended above the water on the platform.



## **WARNING:**

**DO NOT STAND OR WALK ON THE PLATFORM WHILE IT IS IN ANY RAISED POSITION. THIS CAN CAUSE SERIOUS PERSONAL INJURY.**

6. Do not allow anyone to swim or play under, near or on the lift at any time.

### **1.5 INSTALLATION SAFETY**

1. Ensure that all bolts and nuts are fastened securely prior to operation.
2. Ensure the pulleys spin freely. If any pulley binds, replace it immediately.
3. Do not weld or otherwise modify the lift. Such alterations may weaken the structural integrity of the lift and void the warranty.
4. All lifting accessories such as bunks, and guide-ons, must be commercially manufactured, have a rated load capacity equal to that of the lift, and be properly maintained and installed.
5. Ensure that the frame is level and square.
6. The following precautions must be observed when lifting any part of this equipment:
  - a. Be sure of your footing.
  - b. Bend your knees and lift with your legs.
  - c. Hold the equipment section close to your body when lifting.
7. Wear heavy leather gloves when handling wire rope. Insufficient hand protection when handling wire rope can cause personal injury.

### **1.6 OPERATING SAFETY**

#### **1.6.1 General**

1. Never use this equipment beyond its rated capacity. This can damage the lift and/or boat with resulting serious personal injury.
2. Before allowing anyone to operate the lift, be certain they fully understand the proper operating procedure.
3. Completely remove any user or dealer installed locking devices before operating the lift.
4. Follow the Pre-Lifting Checklist before operating.
5. Do not try lifting or launching your boat in rough water conditions. This can damage your boat and/or the lift.
6. The boat must be secured on the lift before raising or lowering. Failure to do this can cause equipment damage and/or serious personal injury.
7. Keep people and pets clear during operation of the lift.
8. Keep fingers and clothing clear of all moving parts.
9. Check the lift periodically for frayed cables and/or binding pulleys.
10. Do not attempt to make any adjustments on the lift while it is being operated.

11. Contact your dealer if the winch mechanism fails to perform as described in the Operation chapter of this manual.
12. Never tamper with the winch mechanism. This can cause equipment damage.
13. Do not operate the lift under the influence of drugs, alcohol, or medication.
14. Never use the lift to hang or store any auxiliary equipment such as boating hardware.

### 1.6.2 Safety When Raising the Boat

1. The handwheel or power drive must turn clockwise when raising the platform. The brake pawl must click, indicating that the brake is operative.
2. Do not try to raise the boat beyond the maximum lifting height of the platform.



#### **WARNING:**

**IF YOU HAVE TO TURN THE HANDWHEEL COUNTERCLOCKWISE TO RAISE THE PLATFORM, YOU HAVE REEVED THE WINCH INCORRECTLY. YOU WILL IMMEDIATELY ENCOUNTER STRONG RESISTANCE WHICH CAN LEAD TO WINCH DAMAGE AND/OR CABLE BREAKAGE.**

### 1.6.3 Safety When Lowering the Boat

1. The handwheel or power drive must turn counter-clockwise when lowering the platform.



#### **WARNING:**

**IF YOU HAVE TO LOWER THE PLATFORM BY TURNING THE HANDWHEEL CLOCKWISE, YOU HAVE REEVED THE WINCH INCORRECTLY. THE BRAKE PAWL WILL NOT BE EFFECTIVE WHICH CAN CAUSE AN UNCONTROLLED SPIN-DOWN OR “FREEWHEEL” OF THE HANDWHEEL. IF FREEWHEELING OCCURS, NEVER TRY TO STOP IT.**

2. Counter-clockwise rotation of the handwheel allows the self-activating brake mechanism to provide a controlled lowering of the platform.



#### **WARNING:**

**NEVER RELEASE THE BRAKE PAWL OF THE WINCH. THIS CAN TRIGGER AN UNCONTROLLED SPIN-DOWN OR “FREEWHEEL” OF THE HANDWHEEL.**

3. Do not continue lowering the platform after the boat floats freely. Excessive slack in winch cable may cause binding.

## 1.7 MAINTENANCE AND STORAGE SAFETY

1. At least once a year, the lift must be thoroughly inspected as described in the Maintenance chapter of this manual.
2. Completely lower the platform before performing any type of maintenance or repair.



#### **WARNING:**

**NEVER ALLOW ANYBODY TO WORK IN OR ON THE BOAT WHEN IT IS SUSPENDED ABOVE THE WATER ON THE LIFT.**

3. Immediately replace any components found to be defective as described in Chapter 5—Inspection and Maintenance.

## 2 VL1250 SPECIFICATIONS

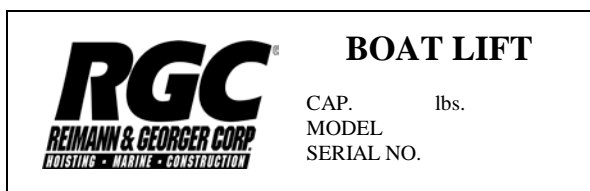
### 2.1 TECHNICAL DATA

MODEL	VL1250
Weight Capacity	1250 lbs.
Maximum Beam	65"
Lifting Height*	75"
Overall Width (Including Feet)	73"
Overall Length (Including Feet)	82-3/4"
6' Stationary Bunks	Std.
S.S. Aircraft Cable	Std.
Polymer Sheaves	Std.
Hand Winch w/ 30" Wheel	Std.
S.S. Hardware	Std.
Adjustable Legs 18"	Std.
<b>OPTIONS</b>	
Non-Remote Hefty Hoist Electric Winch 110V	Opt.
Remote Hefty Hoist Electric Winch 110V	Opt.
Friction Drive AC 110V	Opt.
Friction Drive DC 12V	Opt.
Shipping Weight	240

\*Measured from top of load tube to bottom of feet when the adjustable legs are fully retracted. Measurements are approximate.

### 2.2 NAMEPLATE AND SERIAL NUMBER TAG

It is important to identify your lift completely and accurately whenever ordering spare parts or requesting assistance in service. The lift has a product nameplate located at the top of vertical leg "D". The label shows the model and serial numbers and capacity rating. The lift label should appear as the sample nameplate shown in Figure 2-1. Record the model and serial numbers, and capacity rating for future reference.



**Figure 2-1.**  
**Typical Product Nameplate**

**MODEL** \_\_\_\_\_ **VL1250** \_\_\_\_\_

**SERIAL NUMBER** \_\_\_\_\_

**CAPACITY RATING**   1250 LBS.



## 2.3 OPTIONAL EQUIPMENT

The following options are available which enable you to customize your lift for your particular operation. Installation instructions are provided as part of each option kit.

1. **Acrylic Canopy**— Boats tucked neatly under the heavy duty canopy are protected from the elements, reducing the need for boat coverings. Various canopy colors are available.
2. **Hefty Hoist**— Electric winch replaces handwheel to raise and lower boat, available with non-remote and remote options.
3. **Friction Drive**—Motorized drive turns standard handwheel to raise and lower boat.
4. **Full Length Guide-On**—Cushioned guide-ons make entering the lift easy in various water conditions.

### 3 INSTALLATION AND SETUP

#### 3.1 PRE-INSTALLATION CHECKS

1. Do not assemble the lift if any part shows any sign of damage.
2. Do not weld or otherwise modify the lift. Such alterations may weaken the structural integrity of the lift and void the warranty.
3. This product has been supplied with stainless steel hardware to protect against a harsh marine environment and provide outstanding performance. Due to the chemistry and surface condition of stainless steel, there is a natural tendency for the hardware to “gall, lock up, or seize” during assembly. To prevent this from occurring, it is **highly recommended** that the anti-seize supplied in the hardware bag be applied to the mating surfaces of all stainless steel fasteners before assembly. Lubricants containing molybdenum disulfide, graphite, mica or talc may also be used.



#### **CAUTION:**

**DO NOT EXCEED THE MAXIMUM TORQUE RATING ON ALL BOLTS OF 20 FT-LBS.**



#### **WARNING:**

**FAILURE TO APPLY A SUITABLE LUBRICANT TO THE MATING SURFACES OF STAINLESS STEEL THREADED FASTENERS MAY CAUSE GALLING AND/OR SEIZING OF ASSEMBLY.**

4. All lifting accessories such as bunks and guide ons, shall be commercially manufactured, have a rated load capacity equal to that of the lift, and be properly maintained and installed. Consult the manufacturer’s separate instructions provided for these accessories.



#### **WARNING:**

**ALL ELECTRIC DRIVES MUST BE INSTALLED AND INSPECTED BY A CERTIFIED ELECTRICIAN IN ACCORDANCE WITH LOCAL ELECTRICAL CODES. THIS INSTALLATION MUST INCLUDE A PROPERLY WORKING GROUND FAULT CIRCUIT INTERRUPTER. (G.F.C.I.)**

#### 3.2 PRIOR TO SETUP

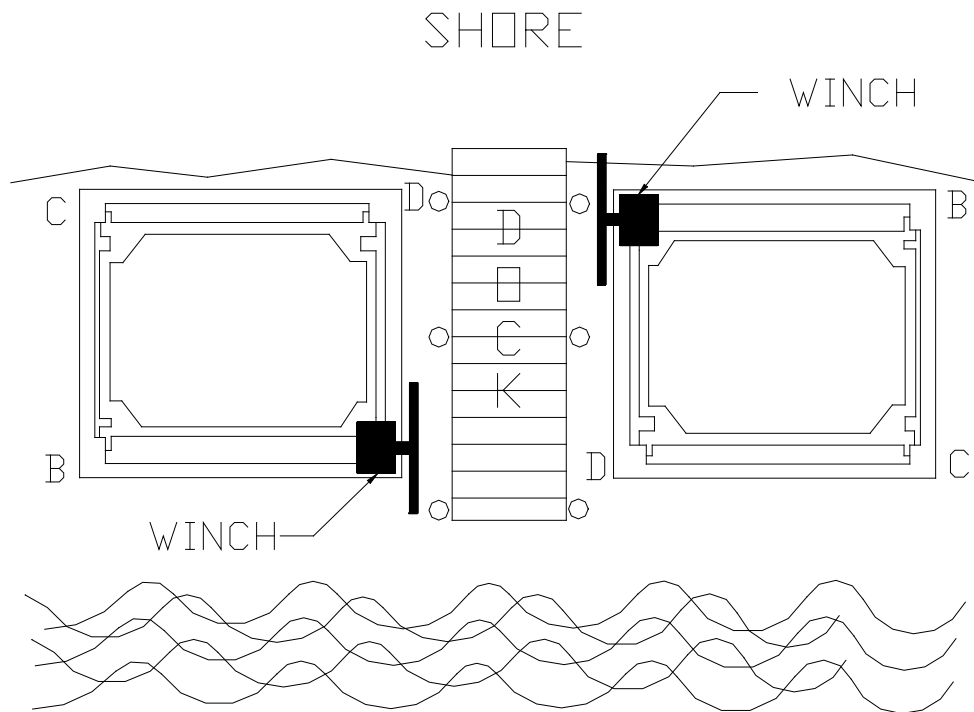
1. The part reference numbers and letters used in the subassembly drawings of sections 3.3 through 3.8 are the same as those shown in Figure 7-1 to 7-3 and listed in the parts lists of Chapter 7.



#### **CAUTION:**

**INSERT ALL BOLTS FROM THE INSIDE OF THE LIFT TO PREVENT DAMAGE TO YOUR BOAT. THE NUTS FASTEN ONTO THE OUTSIDE FACE OF THE LIFT. THE ONLY BOLTS THAT MAY BE INSERTED FROM THE OUTSIDE OF THE LIFT ARE THOSE ON THE BOTTOM PARTS OF THE BRACES.**

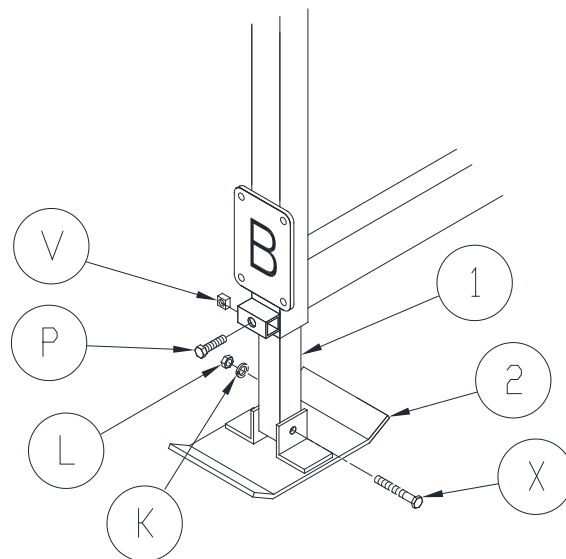
2. The lift may be placed on either side of your dock as shown in Figure 3-1. The winch will be mounted onto vertical leg A.



**Figure 3-1.**  
**Lift / Dock Placement Options**

### 3.3 VERTICAL LEG ASSEMBLY

1. **Refer to Figure 3-2.** Fasten an extension leg (1) onto each of the foot plates (2) using supplied hardware. Insert these subassemblies into the bottoms of each of the vertical legs A, B, C, and D.
2. Connect the extension legs to the vertical legs with supplied hardware. Adjust the leg height according to water depth: the deeper the legs are in the water, the higher the vertical legs should be mounted onto the extension legs.



**Figure 3-2.**  
**Typical Vertical Leg Assembly**

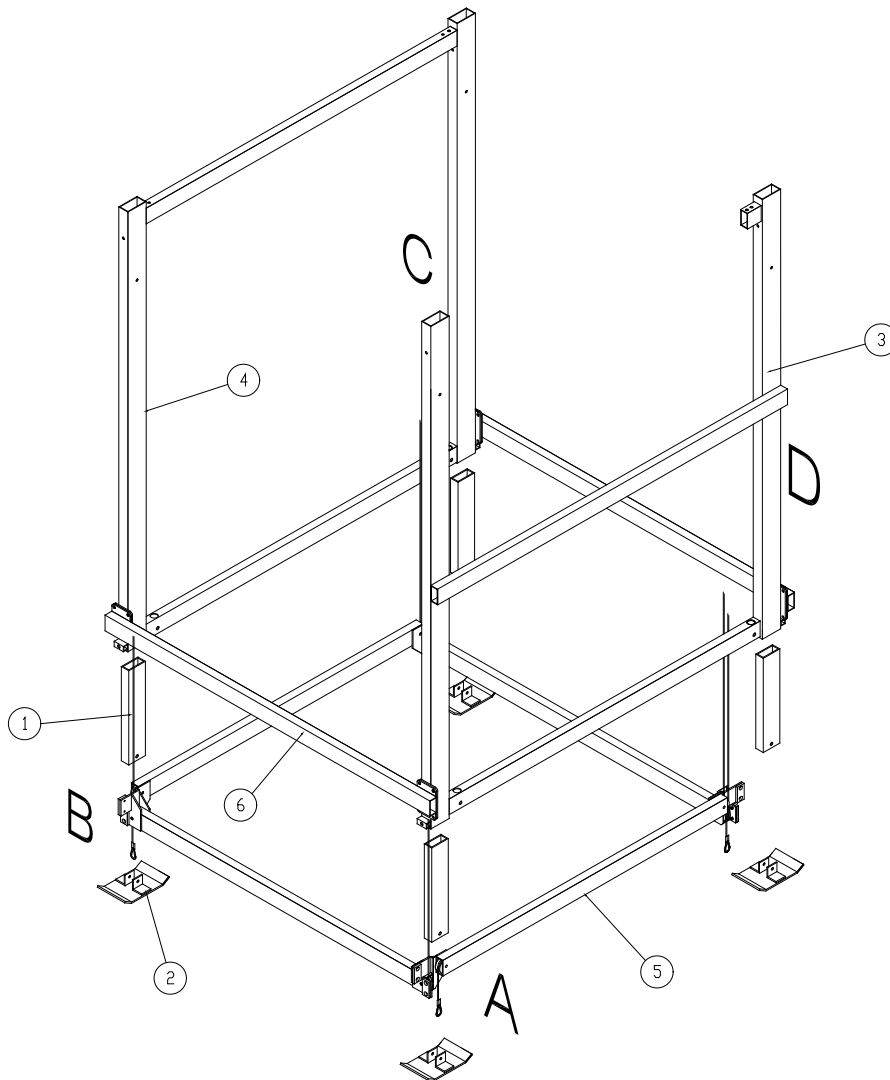
### 3.4 ASSEMBLE LIFTING PLATFORM TO FRAME

1. Refer to Figure 3-3. Ensure all platform (5) fastenings are tight before mounting onto the frame.
2. Identify the A-D spreader tube on the platform.
3. Lift the A-D frame side (3) and position it along an A-D spreader tube side of the platform.
4. Place a platform corner onto each of the foot plates so that the frame side stands.
5. Repeat Steps 3 and 4 for the B-C frame side (4) of the lift.



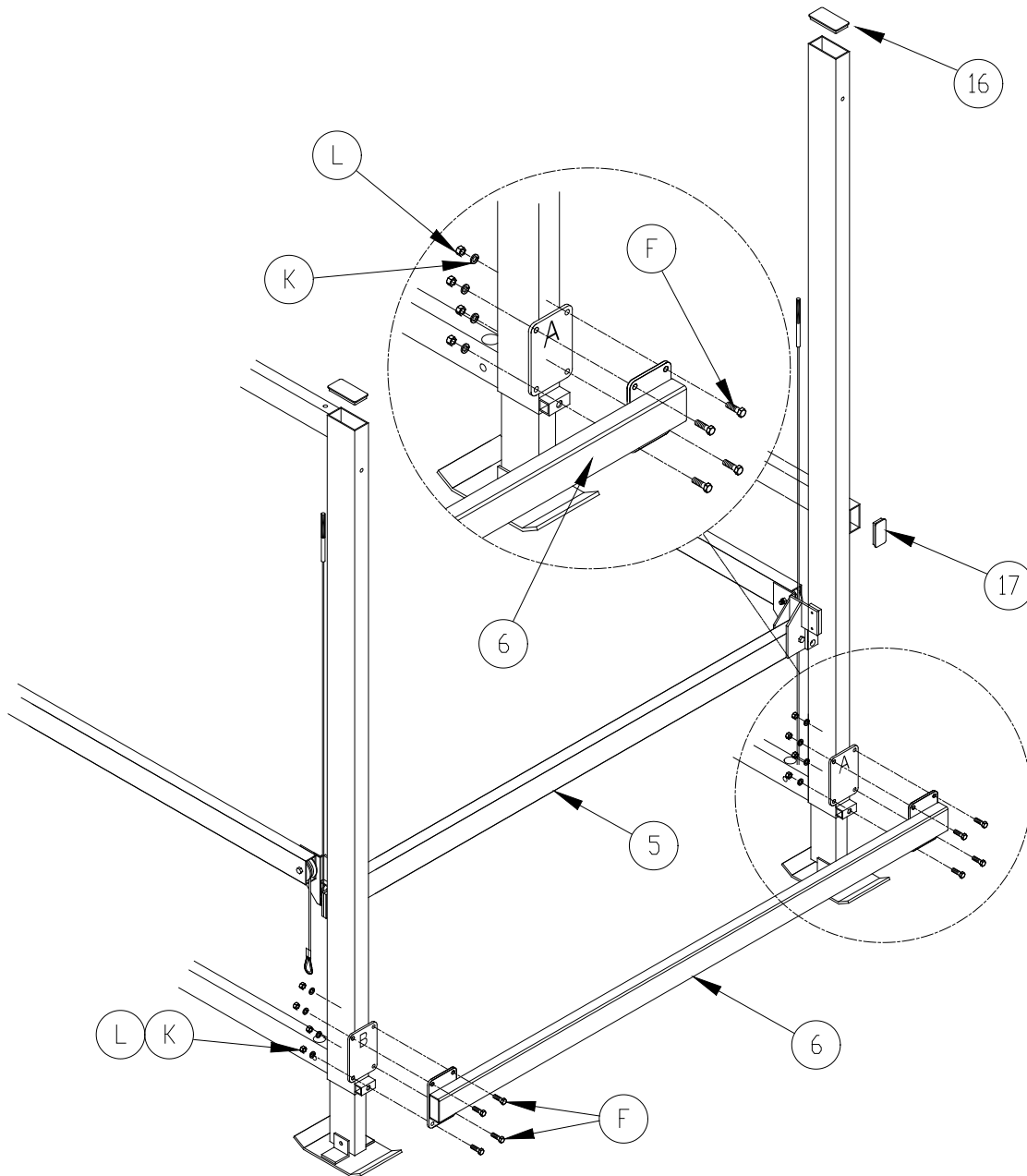
#### **CAUTION:**

**THE LOAD AND SPREADER TUBES OF THE PLATFORM ARE ALREADY REEVED. WHEN PLACING THE ASSEMBLED PLATFORM INTO THE FRAME, ENSURE THE CABLE LOOPS ARE PASSING OVER THE SHEAVES AND POINTING TOWARDS THE BOTTOM TUBE OF EACH FRAME SIDE. EQUIPMENT MALFUNCTION AND DAMAGE WILL RESULT IF THE PLATFORM IS NOT ORIENTED THIS WAY.**



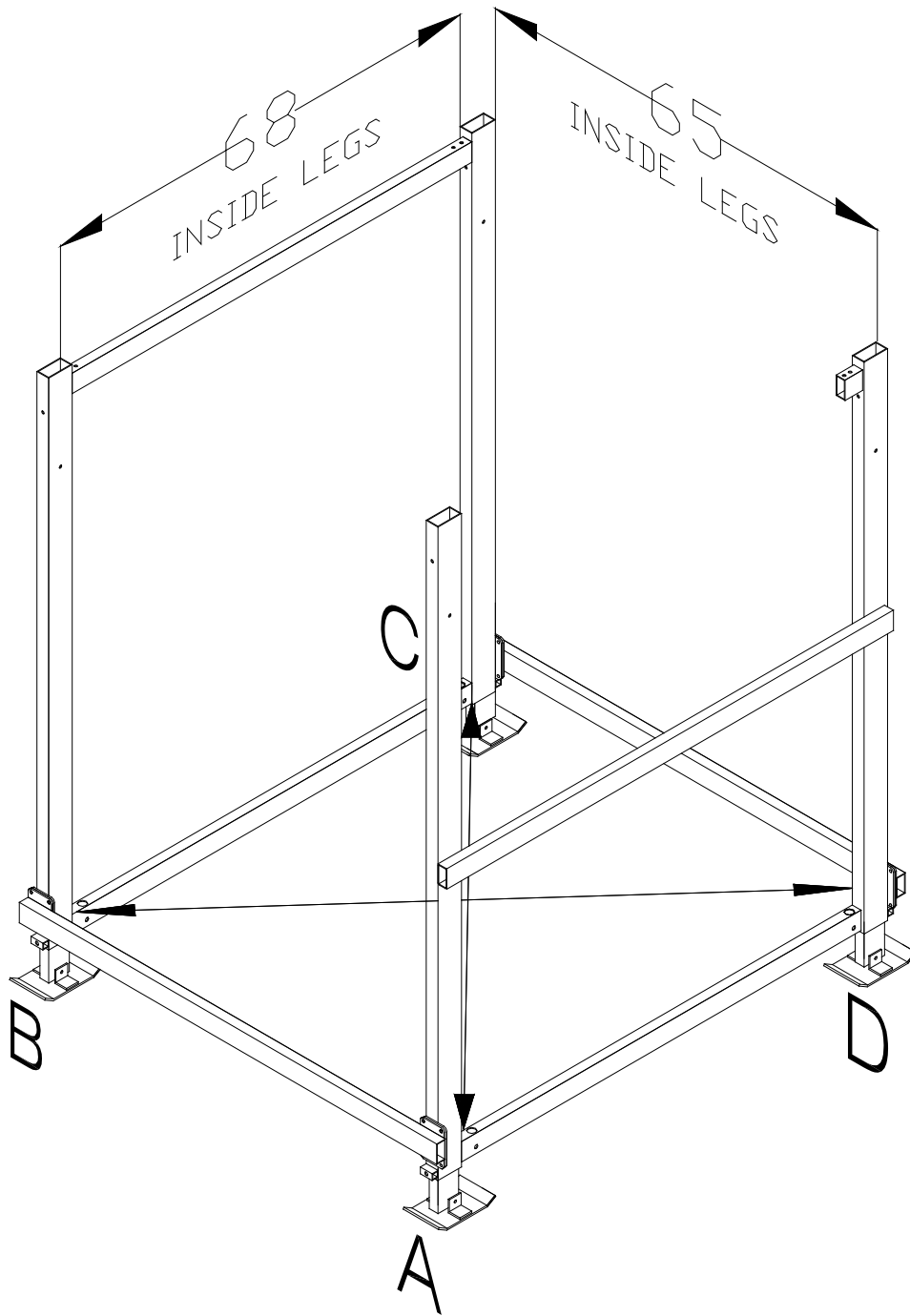
**Figure 3-3.**  
**Vertical Lift Frame & Platform Assembly**

6. **Refer to Figure 3-4.** Fasten a horizontal tube (6) across each end to connect the two frame sides using hardware shown. **DO NOT TIGHTEN.**
7. Install the four 2 x 4 plastic caps (16) provided onto the tops of the four vertical legs and the two 1-1/2 x 3 plastic caps (17) in the ends of the horizontal tube on the A-D frame side.



**Figure 3-4.**  
**Front & Rear Horizontal Tube Assembly**

8. **Refer to Figure 3-5.** Plumb the frame by adjusting the verticals to achieve the same measured distance between them at both top and bottom. Square the frame by measuring diagonally from corners “A to C” and “B to D” **The difference between the two shall not exceed 1/4 of an inch.** Tighten all fasteners. Re-measure and align if necessary.



**Figure 3-5.**  
**Frame Assembly Plumb & Squaring Table**

### **3.5 PLATFORM REEVING AND ADJUSTMENT**

1. Position the platform near the bottom end of its lifting range. Ensure the platform is level.
2. **Refer to Figure 3-6.** The platform load and spreader tubes are already reeved. Fasten the cable end loops to the lower tube provided on each of the frame sides.



**CAUTION:**

**WEAR HEAVY LEATHER GLOVES WHEN HANDLING WIRE ROPE. FAILURE TO DO THIS CAN CAUSE SERIOUS PERSONAL INJURY.**



**CAUTION:**

**DO NOT “JAM TIGHT” THESE LOWER CABLE ANCHORS OR YOU WILL COLLAPSE THE ALUMUNUM TUBE.**

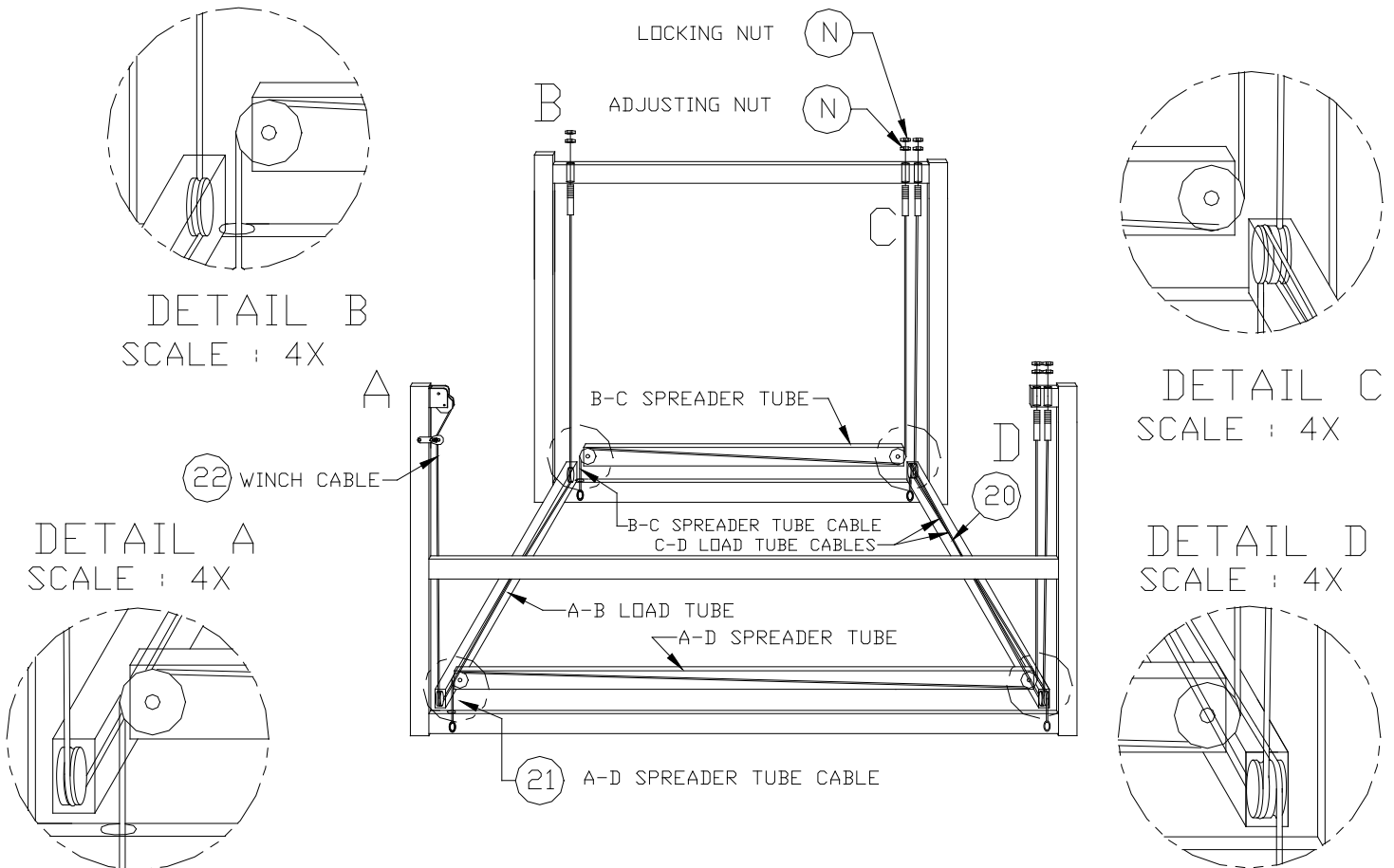
3. Insert the threaded cable stud into the corresponding holes in the tube at top of legs ‘B’, ‘C’ & ‘D’. Install only one bronze nut (N) on each stud at this time. Using a 9/16” open-end wrench, tighten the cable adjusting nut opposite the cable end loop in the following order.

**Step 1:** Tighten down the bronze nut to add tension to the B-C spreader tube cable (21).

**Step 2:** Tighten down the bronze nut to add tension to the A-D spreader tube cable (21). Check that the B-C and A-D spreader tube cables are equal in tension and that the platform is level.

**Step 3:** Tighten down the bronze nuts to add tension to the C-D load tube cables (20).

4. Add a second bronze nut and tighten to the cable adjusting nut to lock the position.



**Figure 3-6.**  
**Cable Reeving & Adjustment**

### 3.6 HANDWHEEL AND WINCH ASSEMBLY

1. Refer to Figure 3-7. Attach winch assembly (8) to vertical leg “A” using backer plate (7), the two-hole plate (25) and the hardware shown. Attach the winch guide sheave assembly (26) to the leg as shown.

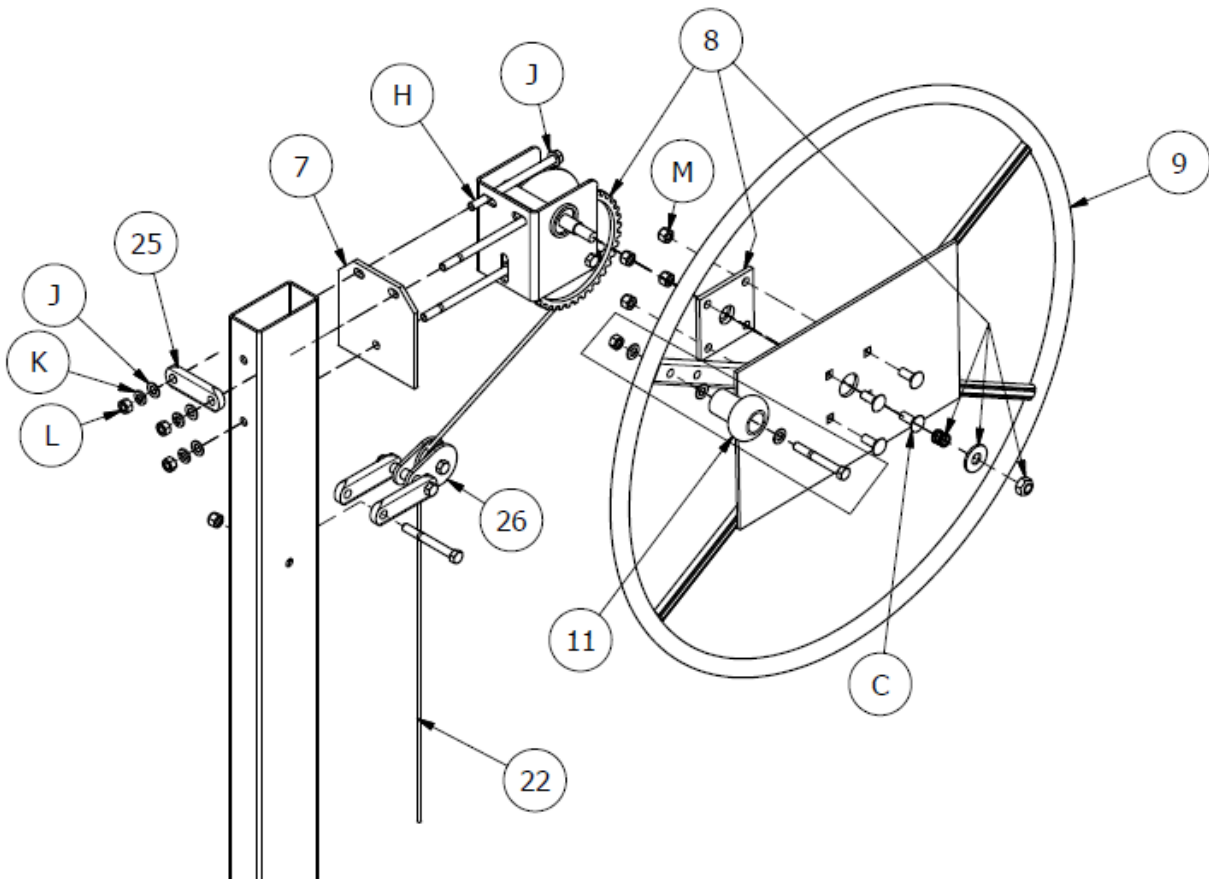
**Note;** If an optional canopy is to be installed, one canopy extension leg should be installed at this time, as the winch mounting holes are also used to mount the optional canopy extension leg.

2. Attach the handwheel (9) to the winch handwheel adapter plate.
3. Attach the spinner knob assembly (11) to the handwheel using the supplied hardware. Select the hole that is most comfortable for **lowering** the lift.



#### **CAUTION:**

**DO NOT USE THE SPINNER KNOB FOR LIFTING THE BOAT. THIS CAN CAUSE EQUIPMENT DAMAGE.**



**Figure 3-7.**  
**Handwheel Mounting**



### 3.7 REEVING THE WINCH



#### **CAUTION:**

**WEAR HEAVY LEATHER GLOVES WHEN HANDLING WIRE ROPE. FAILURE TO DO THIS CAN CAUSE SERIOUS PERSONAL INJURY.**

1. Refer to **Figures 3-6 Detail A, and 3-8**. Place the cable through the winch guide sheave assembly as shown. Reeve the cut end of cable over the top of winch drum and insert cable thru hole in drum side flange.



#### **CAUTION:**

**DO NOT ALLOW END OF CABLE TO EXTEND MORE THAN 1/8 INCH PAST CABLE CLAMP.**

2. Secure the cable by tightening down the cable clamp (12) included with the winch as shown in figure 3-8.

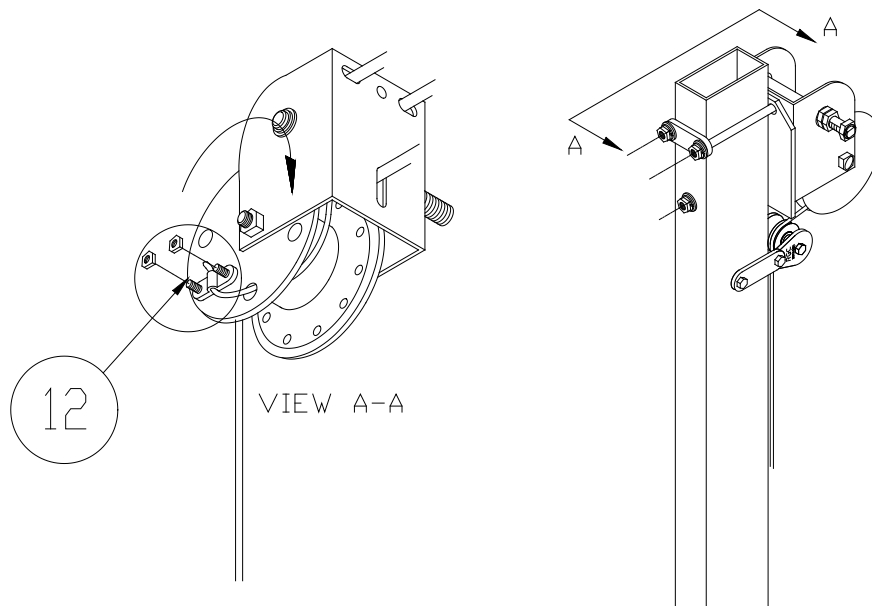


#### **WARNING:**

**WHEN REEVING THE WINCH, CLOCKWISE ROTATION OF THE HANDWHEEL MUST RAISE, NOT LOWER, THE PLATFORM. IF CLOCKWISE ROTATION OF THE HANDWHEEL LOWERS THE PLATFORM, YOU HAVE REEVED THE WINCH INCORRECTLY. AN UNCONTROLLED FREEWHEELING CAN BE TRIGGERED WITH THE WEIGHT OF A BOAT.**

**FREEWHEELING CAN CAUSE EQUIPMENT OR BOAT DAMAGE. HOWEVER, IF FREEWHEELING OCCURS, NEVER TRY TO STOP IT. THIS CAN CAUSE SERIOUS PERSONAL INJURY.**

3. When wrapping the drum, do not allow any horizontal gaps in the cable winding.

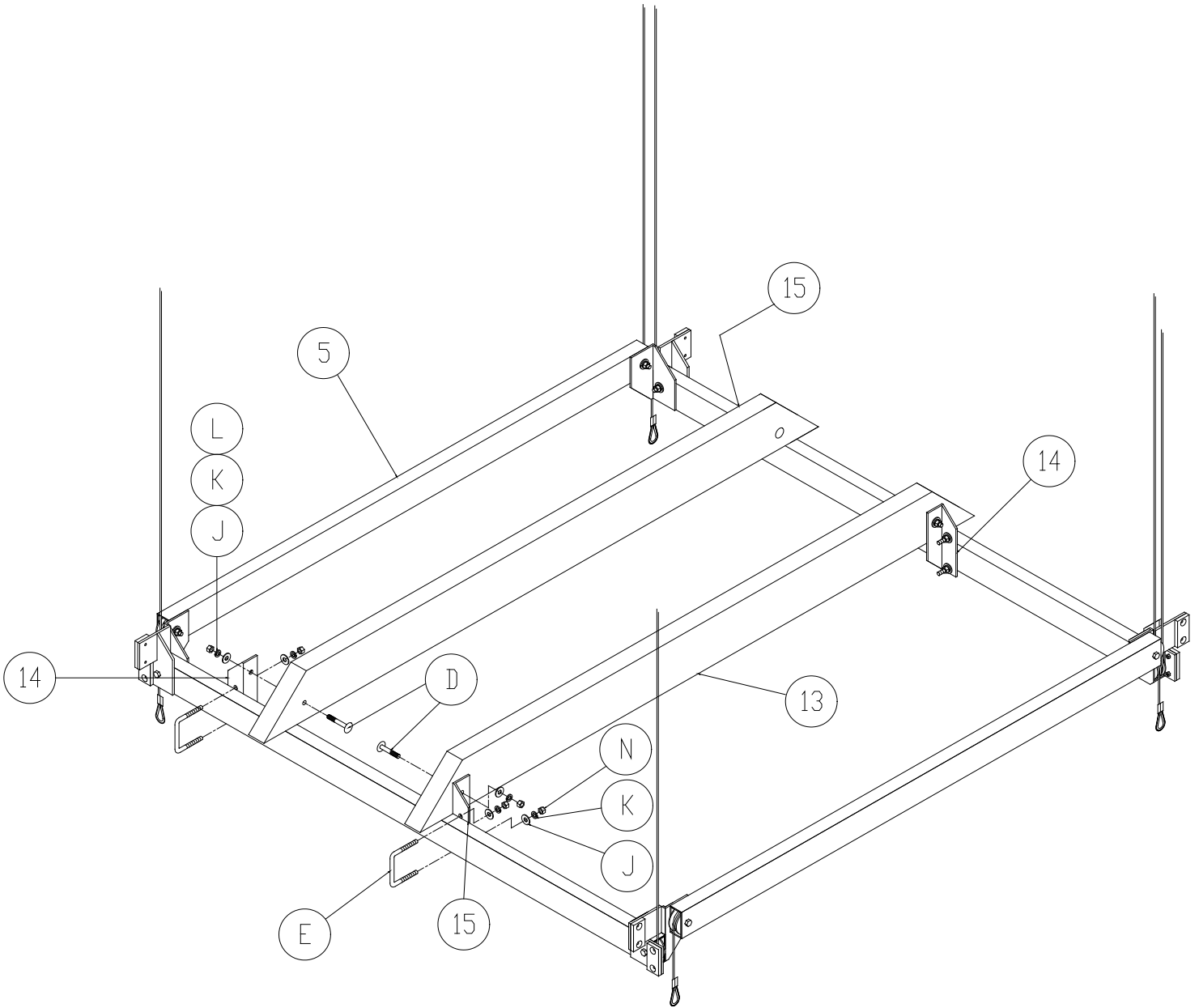


**Figure 3-8.  
Winch Cable Reeving**

4. During operation, when the platform is being lifted, it is normal for the two cables in the C-D load tube to alternate from being tense to going slack. If you notice this, it is not necessary to further tighten down the nuts.
5. If the boat is not lifting level because the stern is lifting higher or lower than the bow, the spreader tube cables (21) are not tight enough. Repeat the first two sub-steps under Step 3 of Section 3.5 above.

### 3.8 STATIONARY BUNK ASSEMBLY

1. Refer to figure 3-9. Attach left hand (14) and right hand (15) bunk mounting brackets to carpeted bunk (13) using hardware (D, J, K & L) as shown.
2. Position bunk assemblies such that watercraft remains centered on lifting platform load tubes. Set distance between bunks to fit hull of water craft, (measure trailer bunk location as a reference, if available). Attach the bunk assemblies to the platform load tubes using hardware (E, J, K & L) as shown.



**Figure 3-9.**  
**Stationary Bunk Assembly**

### 3.9 MOVING LIFT TO OPERATING POSITION

1. The following precautions must be observed when moving your lift for any reason:
  - a. Be sure of your footing.
  - b. Bend your knees and lift with your legs.
  - c. Hold the lift section close to your body when lifting.
2. After moving your lift to the operating position, ensure that the frame is square and that the lift sets level. Refer to Section 3.4, Step 7.



**CAUTION:**

**SEVERE OUT OF LEVEL INSTALLATION MAY CAUSE BINDING, RESULTING IN EQUIPMENT DAMAGE.**

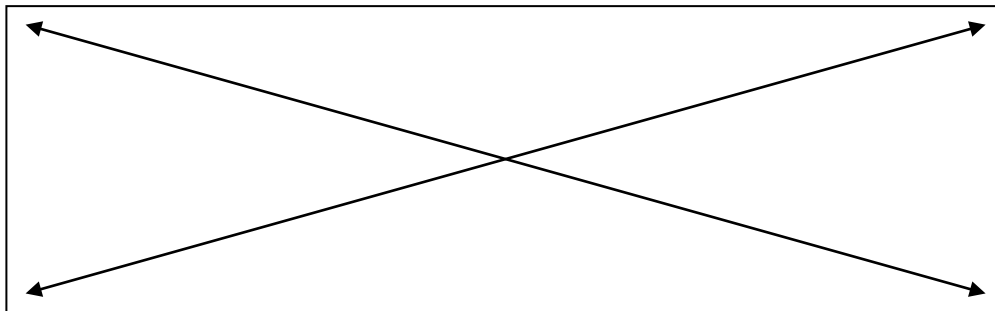


**CAUTION:**

**FRAME MUST BE SQUARE TO PREVENT DAMAGE AND/OR IMPROPER FITTING OF CANOPY FABRIC IF SO EQUIPPED.**

3. Verify frame is square by measuring the diagonal distance from the outside of frame corner to opposite corner. Repeat for alternate corners. The **difference between the two measurements shall not exceed 1/4 of an inch.**

**Frame Diagonal Measurement Diagram**  
(Measure to Outside Corners)



## 4 OPERATION

### 4.1 BEFORE OPERATING THE LIFT

1. Read and know the instructions and ensure that everyone understands the proper operating procedure.
2. If using a power drive, understand the use of all controls and connections provided with it.
3. Follow the Pre-Lifting Checklist before operating.
4. Do not use the lift if it shows any signs of damage.
5. Ensure that all bolts and nuts are fastened securely prior to operation.
6. Check that the winch is reeved properly. See reeving instructions in Chapter 3 of this manual.
7. Never try lifting anything other than a boat with this lift.



#### **WARNING:**

**NEVER TRY TO USE THIS EQUIPMENT BEYOND ITS RATED CAPACITY. THIS CAN DAMAGE THE LIFT AND/OR BOAT RESULTING IN PERSONAL INJURY.**

**THE BOAT MUST BE PROPERLY POSITIONED ON THE LIFT BEFORE DOING ANY RAISING OR LOWERING. FAILURE TO DO THIS CAN CAUSE PERSONAL INJURY AND/OR EQUIPMENT DAMAGE.**

8. Do not operate the lift under the influence of drugs, alcohol, or medication.
9. Completely remove any user or dealer installed locking devices.
10. Never try to lift or launch your boat in rough water conditions. This can damage your boat and/or the lift.

### 4.2 TESTING WINCH OPERATION

After the lift installation is complete, it is important that the winch functions properly. Test the winch operation as follows:

1. Raise the empty platform about one fourth of the way up and release the handwheel. The handwheel or power drive must turn clockwise when raising the platform. The brake pawl must click, indicating that the brake is operative. An empty platform will have a normal tendency to slowly lower itself.



#### **CAUTION:**

**IF YOU HAVE TO TURN THE HANDWHEEL COUNTERCLOCKWISE TO RAISE THE PLATFORM, YOU HAVE REEVED THE WINCH INCORRECTLY. YOU WILL IMMEDIATELY ENCOUNTER STRONG RESISTANCE WHICH CAN LEAD TO WINCH DAMAGE AND/OR CABLE BREAKAGE.**

2. Repeat Step 1 in the half, three-quarters, and full lift positions.
3. Lower the empty platform to repeat steps 1 and 2 with your boat on the lift. The handwheel or power drive must turn counter-clockwise when lowering the platform. When loaded, the self-activating brake mechanism should stop the platform from lowering as soon as the operator stops turning the handwheel. Make sure this brake mechanism is operative.



#### **WARNING:**

**IF THE HANDWHEEL STARTS TO FREELY SPIN DOWN FROM ANY LOADED TEST POSITION, NEVER TRY TO STOP IT. DO NOT USE A LIFT IN THIS CONDITION.**

4. Contact your authorized dealer if the winch mechanism fails to perform as described in this section. Do NOT tamper with the winch mechanism.

#### **4.3 RAISING AND LOWERING THE PLATFORM**

1. Raise the platform by turning the handwheel clockwise. The self-activating brake mechanism will hold the platform at any desired height.
2. Platform should be raised a minimum of 1 foot between bottom of boat and highest potential water table height for your geographic area.
3. Lower the platform by turning the handwheel counterclockwise. Do not continue lowering the platform after the boat floats freely from the platform. Excessive winch cable slack may cause cable, lift, and winch damage.
4. Keep fingers and clothing clear of all moving parts. Keep people clear during operation of the lift.
5. Never allow people in the boat any time it is suspended above the water on the lift.



#### **WARNING:**

**DO NOT STAND OR WALK ON THE LIFT PLATFORM WHILE IT IS IN ANY RAISED POSITION. THIS CAN CAUSE SERIOUS PERSONAL INJURY.**

6. Check the lift periodically for frayed cables and/or binding pulleys.
7. When using a power drive, avoid sudden stops.

#### **4.4 SECURING LIFT WHEN NOT IN USE**

At the end of operation, secure the lift to prevent unauthorized use. Proceed as follows:

1. Raise the platform to the desired height.
2. Padlock the handwheel to the post or lock out your power drive to prevent unauthorized use when your boat lift is unattended.

## 5 INSPECTION AND MAINTENANCE

### 5.1 GENERAL MAINTENANCE RULES

1. Do not allow persons other than authorized service personnel to repair this equipment.
2. Do not weld or otherwise modify the lift. Such alterations may weaken the structural integrity of the lift and invalidate your warranty.
3. Completely lower the lift before performing any type of maintenance or repair.



#### **WARNING:**

**NEVER ALLOW ANYBODY TO WORK IN OR ON THE BOAT WHEN IT IS SUSPENDED ABOVE THE WATER ON THE LIFT. IF THE HANDWHEEL ON THE WINCH SHOULD START FREEWHEELING, DEATH OR SERIOUS INJURY COULD RESULT.**

**IF FREEWHEELING STARTS, NEVER TRY TO STOP IT. ALTHOUGH A SPIN DOWN OR “FREEWHEELING” CAN CAUSE LIFT OR BOAT DAMAGE, TRYING TO STOP FREEWHEELING CAN CAUSE SERIOUS PERSONAL INJURY.**

### 5.2 WIRE ROPE INSPECTION PROCEDURE

Inspect the wire rope prior to each use for signs of wear, damage, or pinching. Inspect the entire wire rope working length. Thoroughly inspect the rope sections that pass over sheaves or drums, or that make opposing turns. Inspect wire rope and end attachments carefully. While inspecting, examine sheaves, guards, guides, drums, flanges, and other surfaces contacting wire rope during operation. Correct any condition harming the rope in use or other damage or worn surfaces at this time.

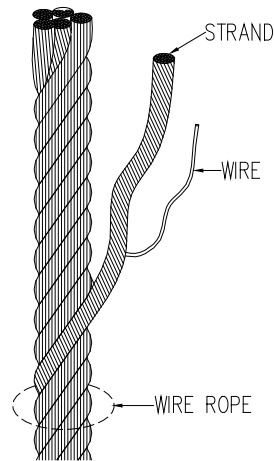


#### **CAUTION:**

**WEAR HEAVY LEATHER GLOVES WHEN HANDLING WIRE ROPE. INSUFFICIENT HAND PROTECTION WHEN HANDLING WIRE ROPE CAN CAUSE PERSONAL INJURY.**

Remove and immediately replace wire rope with one or more of the following defects:

1. Corrosion
2. Broken wires:
  - (a) One or more valley breaks. A valley break is a wire break occurring in the valley between two adjacent strands.
  - (b) Six randomly distributed broken wires in one rope lay. A rope lay is the length of rope along which one strand makes a complete revolution around the rope. See Figure 5-1. Keeping the rope clean and wound evenly on the winch drum will increase its life and efficiency.
3. Abrasion: Scrubbing, flattening or peening causing loss of more than one-third of the original diameter of the outside wires.
4. Kinking: Severe kinking, crushing, bird caging or other damage causing distortion of the rope structure. Bird caging is a bulging in the cable caused by the individual wires becoming untwisted. This untwisting of individual wires is usually caused by impact loading on the cable (such as a sudden stop).
5. Heat damage: Evidence of any heat damage caused by a torch or by contact with electrical wires.



**Figure 5-1.**  
**Wire Rope Components**

6. Reduction of more than 1/64 inch from a nominal 5/16-inch or less diameter cable. Reduction of more than 1/32 inch from a nominal 3/8-inch to 1/2-inch diameter cable.

### 5.3 ANNUAL INSPECTION

At least once a year, the lift must be thoroughly inspected using the following procedure.



**WARNING:**

**DO NOT ALLOW ANYBODY TO USE THE LIFT UNTIL THIS MAINTENANCE IS COMPLETED.**

1. Tighten all bolts.
2. Check the sheaves to insure that they spin freely. If they bind, replace them immediately.
3. Check frame thoroughly for defects.
4. Perform the winch maintenance as described in Section 5.4.

### 5.4 ANNUAL WINCH MAINTENANCE



**WARNING:**

**THE WINCH MAINTENANCE SCHEDULE MUST BE FOLLOWED TO AVOID POSSIBLE EQUIPMENT FAILURE OR PERSONAL INJURY.**

1. Apply automotive type grease to both the pinion and drum gear teeth, and to the outside diameter of the drum bearing. Always keep this light film of grease on the gear teeth.
2. During each usage, check for proper ratchet operation as follows: When lifting with clockwise rotation, a loud clicking sound should be heard. When lowering with counter-clockwise rotation, there is no clicking sound.



**WARNING:**

**AFTER EVERY WINCH MAINTENANCE, TEST THE WINCH MECHANISM AS DESCRIBED IN CHAPTER 4 BEFORE LETTING ANYONE USE THE LIFT.**

## **5.5 STORAGE PROCEDURE**

1. Position boat on platform so the lower unit of the motor is against the optional motor stop (if used).
2. A boat that has water in it from a rain storm could exceed the recommended weight capacity for the lift. Just 1 gallon of water weighs over 8 pounds. Be sure to remove the plug while the boat is up on the lift. Make sure you replace the plug prior to launching your boat.
3. Protect your lift as far as possible from damage caused by environmental factors such as airborne fallout, chemicals, tree sap, and weather hazards.
4. Never use the lift to hang or store any auxiliary equipment such as boating hardware.
5. Do not allow anyone to swim or play near the lift at any time.
6. Padlock the handwheel to the post and disconnect the power to any electric motor when your boat lift is unattended. Never assume you will find the lift in the same condition that you left it.



## 6 TROUBLESHOOTING

The following chart is intended to assist with troubleshooting your vertical lift. While not all inclusive, the chart outlines the most common causes of a problem and the recommended course of action.

SYMPTOM	CAUSE AND CORRECTIVE ACTION
Winch resists platform raising.	<p>Winch has been reeved incorrectly—winch must turn clockwise to raise platform. See Section 3.7.</p> <p>Sheaves binding—inspect/lubricate/replace.</p> <p>Winch cable is rubbing against the winch frame—repeat winch reeving if necessary following Section 3.7.</p>
Winch fails to hold the platform in a given position as described in the test procedure of Section 4.2	Contact your authorized dealer—tampering with the winch mechanism can cause equipment damage that may invalidate your warranty.
Winch is operating properly, but platform raising is either difficult or impossible.	<p>Platform is binding because frame is either not square, or not set level in the water—refer to Sections 3.3 and 3.9.</p> <p>One or more wires are broken—refer to Section 5. 2</p> <p>Sheaves binding—inspect/lubricate/replace.</p> <p>One or more cables are excessively worn—replace as required and follow monthly wire rope inspection procedure described in Section 5.2.</p> <p>Load exceeds rated capacity— Reduce load weight as needed.</p> <p>User or dealer installed locking devices are in place—remove these.</p> <p>Auxiliary equipment such as boating hardware is being improperly hung on lift—remove this equipment permanently.</p>
Boat is not lifting level—stern is lifting higher or lower than the bow.	<p>Frame is not level in the water—readjust height of extension legs.</p> <p>Frame is level in the water but spreader tube cables are not tight enough—</p> <ol style="list-style-type: none"> <li>1. Tighten down the cable stud nut to add tension to the B-C spreader tube cable.</li> <li>2. Tighten down the cable stud nut to add tension to the A-D spreader tube cable. Check that the B-C and A-D spreader tube cables are equal in tension and that the platform is level.</li> </ol>
Boat shifts position when operating the lift.	Boat is not properly secured on the lift—failure to properly secure boat can cause equipment damage and/or serious personal injury.

<p>Lowering operation triggers a “freewheeling” of the handwheel.</p>	<p>Winch has been reeved incorrectly—winch must turn counterclockwise to lower the platform. See Section 3.7.</p> <p>Unauthorized brake pawl release has occurred—do not try to correct this yourself. Contact your authorized dealer immediately.</p>
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**WARNING:**

**NEVER RELEASE THE BRAKE PAWL OF THE WINCH. THIS CAN VOID YOUR WARRANTY AND TRIGGER AN UNCONTROLLED SPIN-DOWN OR “FREEWHEEL” OF THE HANDWHEEL. FREEWHEELING CAN CAUSE EQUIPMENT OR BOAT DAMAGE. IF FREEWHEELING OCCURS, NEVER TRY TO STOP IT, AS THIS CAN CAUSE SERIOUS PERSONAL INJURY.**

<p>Lowest platform position is too high or low relative to the water.</p>	<p>Connections between the vertical and adjustable legs need readjusting—do this with the hardware shown in Figure 3-3.</p>
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## 7 PARTS LISTS

Each reference number or letter in the following parts lists can be matched with the reference number or letter referred to in both the text and illustrations of Chapter 3, Installation and Setup.



**WARNING:**

**FAILURE TO APPLY A SUITABLE LUBRICANT TO THE MATING SURFACES OF STAINLESS STEEL THREADED FASTENERS MAY CAUSE GALLING AND/OR SEIZING OF ASSEMBLY.**

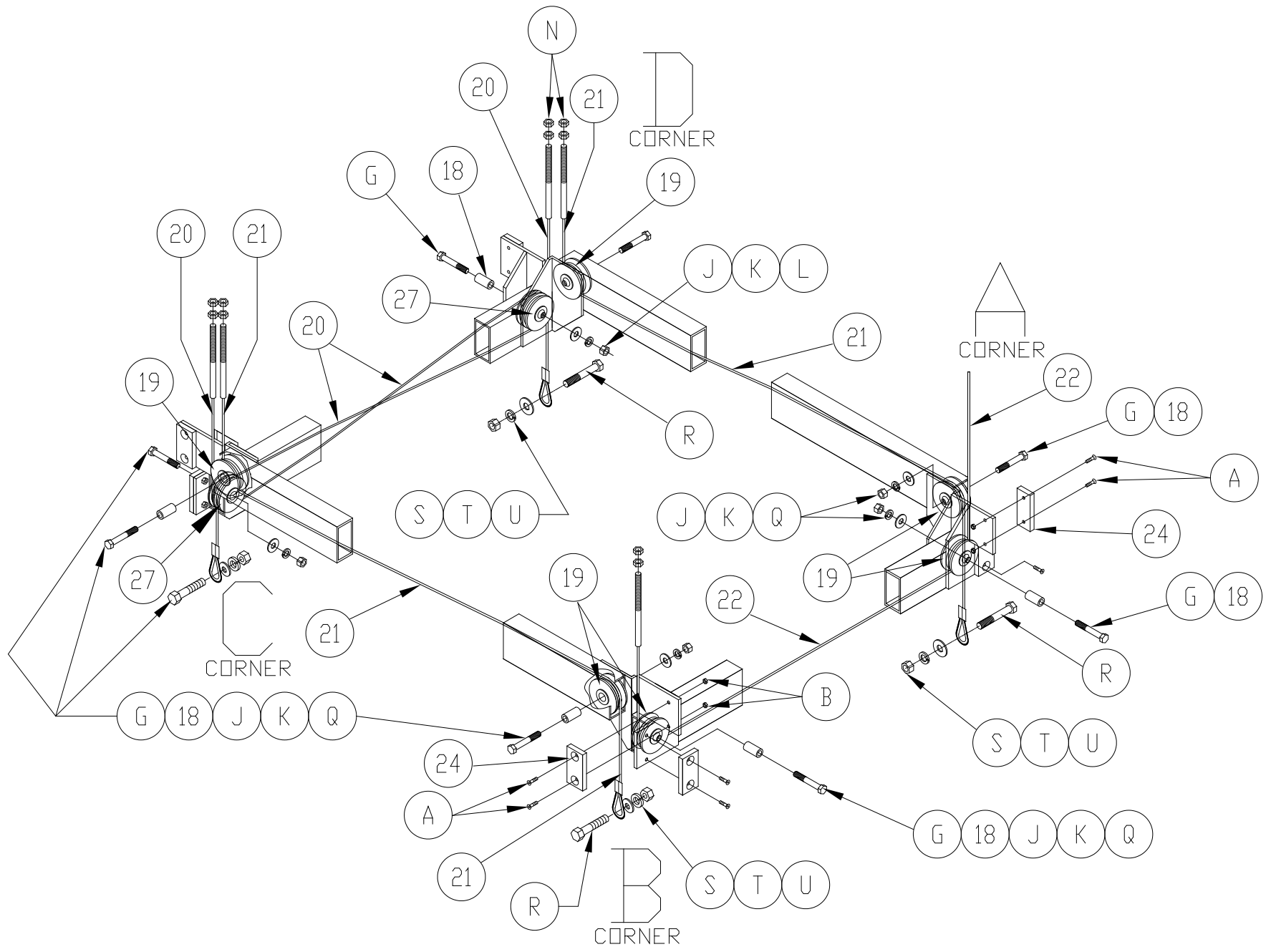


**CAUTION:**

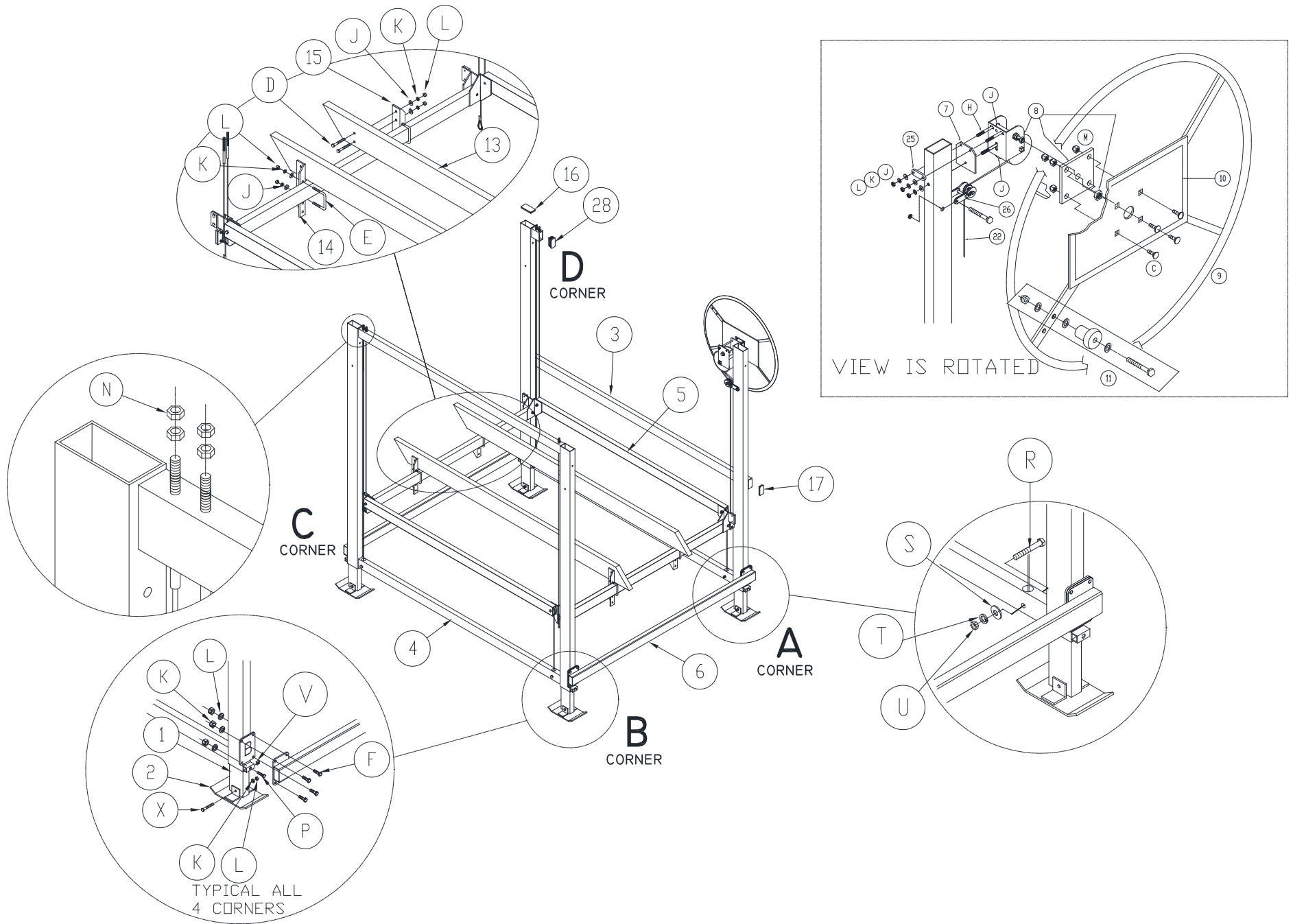
**DO NOT EXCEED THE MAXIMUM TORQUE RATING ON ALL BOLTS OF 20 FT-LBS.**

### 7.1 VL1250 VERTICAL BOAT LIFT

REF #	PART #	QTY	DESCRIPTION
1	3614651	4	VL1200 EXT LEG 18"
2	4002208	4	FOOT PLATE ASSY
3	3625424	1	(AD) FRAME SIDE ASSEMBLY
4	3625427	1	(BC) FRAME SIDE ASSEMBLY
5	3611410	1	PLATFORM ASSEMBLY—COMPLETE
6	3611503	2	VL1250 HORIZONTAL 71"
7	3613816	1	WINCH BACKER PLATE
8	3703720	1	WINCH W/ HANDWHEEL ADAPTER PLATE
9	3438007	1	30" HANDWHEEL
10	6206984	1	HANDWHEEL DECAL
11	3671010	1	HANDWHEEL SPINNER KNOB ASSEMBLY
12	3703142	1	CABLE CLAMP KIT
13	3611419	2	VL1250 STATIONARY BUNK ASSEMBLY
14	3611807	2	LEFT HAND VL1250 BUNK MOUNTING ANGLE
15	3611814	2	RIGHT HAND VL1250 BUNK MOUNTING ANGLE
16	6403794	4	CAP PLASTIC 2 X 4 X 1/8
17	6403795	3	1-1/2 X 3 PLASTIC CAP
18	3612635	8	SHEAVE SPACER
19	7336910	6	POLYMER SHEAVE 2-5/8" SINGLE GROOVE
20	3611404	2	LOAD TUBE CABLE ASSEMBLY – BLACK & YELLOW
21	3611401	2	SPREADER TUBE CABLE ASSEMBLY – BLACK & TAN
22	3611405	1	WINCH CABLE ASSEMBLY – 3/16 X 260-1/2 SS STUD
23	3613501	1	PLATFORM WELDMENT
24	3614603	8	GLIDE PLATE
25	3603835	1	2 HOLE PLATE 2"
26	3625430	1	WINCH GUIDE SHEAVE ASSEMBLY
27	7336905	2	VL SHEAVE DOUBLE GROOVE 1.2K
A	5896243	16	#10 X 3/4 FLATHEAD MACHINE SCREW
B	5893100	16	#10 THIN NYLOCK HEX NUT
C	5898101	4	3/8 X 1 CARRIAGE BOLT
D	5896323	4	3/8 X 2-1/2 CARRIAGE BOLT
E	5893614	4	3/8 X 3-1/8 X 3 SQUARE BEND U-BOLT
F	5896247	16	3/8 X 1 HEX HEAD CAP SCREW
G	5896253	8	3/8 X 2-1/2 HEX HEAD CAP SCREW
H	5896264	3	3/8 X 5-1/2 HEX HEAD CAP SCREW
J	5896406	46	3/8 SAE FLAT WASHER
K	5806243	43	3/8 SPLIT LOCK WASHER
L	5896377	3	3/8 HEX NUT
Q	5840104	32	3/8 HEX NUT ALUM
M	5840103	4	3/8 NYLOCK HEX NUT ALUM
N	5803638	18	3/8 BRONZE HEX NUT
P	5896282	4	1/2 X 1-1/2 HEX HEAD CAP SCREW
R	5896286	4	1/2 X 2-1/2 HEX HEAD CAP SCREW
S	5896400	4	1/2 SAE FLAT WASHER
T	5806244	4	1/2 SPLIT LOCK WASHER
U	5836106	4	1/2 HEX NUT ALUM
V	5840105	4	1/2 SQUARE NUT ALUM
X	5896255	4	3/8-16 X 3 HEX HEAD CAP SCREW SS
Y	3403757	4	PWC FOOT PLATE POLY SPACER 7/16"



**Figure 7-1**  
**Platform Assembly**



**Figure 7-2  
Complete Lift Assembly**

## LIMITED PRODUCT WARRANTY

### Reimann & Georger Corporation Marine Products

RGC Marine products, hereafter referred to as the “Manufacturer”, extends this limited warranty to the original purchaser of this product. The original purchaser, hereinafter referred to as the “Buyer”, is defined as the first legal owner of this product other than an authorized distributor or dealer who has bought the product from the Manufacturer for resale to the public. **The Buyer must complete and return the Warranty Registration section of the provided Warranty Card to make this limited warranty effective.**

#### CONSUMER PRODUCT PROVISIONS

**I. ARTICLE I—CONSUMER PRODUCT PROVISIONS: THE FOLLOWING PROVISIONS SHALL BE APPLICABLE IF THIS PRODUCT IS BEING PURCHASED FOR PERSONAL, FAMILY OR HOUSEHOLD PURPOSES.**

**THE CONSUMER PRODUCT PROVISIONS CONTAINED IN THIS ARTICLE I SHALL APPLY UNLESS THIS PRODUCT IS BEING PURCHASED SOLELY FOR COMMERCIAL OR INDUSTRIAL USE, IN WHICH EVENT THE PROVISIONS CONTAINED IN ARTICLE II BELOW SHALL APPLY AND THE PROVISIONS CONTAINED IN THIS ARTICLE I SHALL BE INAPPLICABLE.**

#### **A. 2-YEAR LIMITED WARRANTY**

The Manufacturer warrants to the Buyer that all supplied parts shall be free of defects in material and workmanship for a period of two (2) years from date of original purchase. This limited warranty covers the cost of all parts and labor needed to repair any item that is found to be defective in material and workmanship. Items covered include cables, sheaves, chains, motors, reducers, switches, control panels and ground fault circuit interrupters.

#### **B. 15-YEAR LIMITED WARRANTY ON VL/PL SERIES ALUMINUM FRAME EXTRUSION**

The Manufacturer warrants to the Buyer that the frame and extrusions shall be free of defects in material and workmanship for a period of fifteen (15) years from date of original purchase. This limited warranty covers the cost of all parts and labor needed to repair any item that is found to be defective in material and workmanship.

#### **C. MANUFACTURER’S OBLIGATIONS**

The Manufacturer’s sole obligation under either of these limited warranties is the replacement or repair, at the Manufacturer’s discretion, of parts found to be defective.

#### **D. NO SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES**

**IN NO EVENT SHALL THE MANUFACTURER BE LIABLE TO THE BUYER OR ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL LOSSES OR DAMAGES CONNECTED WITH THE USE OF THE PRODUCT UNDER WARRANTY. SUCH DAMAGES FOR WHICH THE MANUFACTURER SHALL NOT BE RESPONSIBLE INCLUDE, BUT ARE NOT LIMITED TO, LOST TIME AND CONVENIENCE, LOSS OF USE OF THE PRODUCT, THE COST OF A PRODUCT RENTAL, COSTS OF GASOLINE, TELEPHONE, TRAVEL, OR LODGING, THE LOSS OF PERSONAL OR COMMERCIAL PROPERTY, AND THE LOSS OF REVENUE.**

Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**E. NO LIABILITY IN EXCESS OF PURCHASE PRICE**

**IN NO EVENT SHALL THE MANUFACTURER'S OBLIGATIONS UNDER THIS LIMITED WARRANTY EXCEED THE PURCHASE PRICE OF THE PRODUCT.**

**F. NO EXTENSION OF STATUTE OF LIMITATIONS**

**ANY REPAIRS PERFORMED UNDER EITHER OF THESE WARRANTIES SHALL NOT IN ANY WAY EXTEND THE TWO-YEAR AND FIFTEEN-YEAR STATUTES OF LIMITATIONS CONTAINED IN THIS LIMITED WARRANTY.**

**G. PROCEDURE FOR WARRANTY PERFORMANCE**

If the product fails to perform to the Manufacturer's specifications, the Buyer must contact the dealer from whom the product was purchased. The Buyer must provide the dealer with the applicable model and serial numbers, the date of purchase, and the nature of the problem.

**H. PREAPPROVAL OF LABOR COSTS**

All labor costs related to a dealer's performance of the warranty obligations under this limited warranty must be pre-approved by Reimann & Georger Corporation Marine Products.

**I. NO OTHER EXPRESS WARRANTIES**

**THE MANUFACTURER IS NOT SUBJECT TO ANY EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH ABOVE.**

**J. LIMIT ON DURATION OF IMPLIED WARRANTIES**

**THE DURATION OF ANY IMPLIED WARRANTIES UNDER APPLICABLE STATE LAW RELATING TO THE PURCHASE OF THIS PRODUCT SHALL BE LIMITED TO A PERIOD OF TWO (2) YEARS FROM THE DATE OF PURCHASE.**

Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

**K. QUESTIONS REGARDING LIMITED WARRANTY**

Any questions regarding this limited warranty or the procedure which the consumer should follow in order to obtain performance of any warranty obligation may be addressed to either the dealer from whom this product is purchased or to Reimann & Georger Corporation Marine Products, 1849 Harlem Road, Buffalo, NY 142212.

**L. EXCLUSIONS FROM LIMITED WARRANTY. THIS LIMITED WARRANTY DOES NOT COVER ANY OF THE FOLLOWING:**

1. Equipment which has been abused, damaged, used beyond rated capacity, or which is damaged or has defects caused by repairs or service completed by persons other than authorized service personnel.
2. Costs of repairing damage caused by environmental factors which include, but are not limited to, airborne fallout, chemicals, tree sap, salt, ocean spray, and water hazards.
3. Damage caused by acts of God which include, but are not limited to, hailstorms, windstorms, tornadoes, sandstorms, lightning, floods, and earthquakes.

4. Damage under conditions caused by fire or accident, by abuse or negligence, by improper installation, by misuse, by incorrect operation, by “normal wear and tear”, by improper adjustment or alteration, by alterations not done by the Manufacturer, or by failure of product parts from such alterations.
5. Costs of repairing damage caused by poor or improper maintenance, costs of normally scheduled maintenance, or the cost of replacing any parts unless done as the result of a repair covered by your two-year limited warranty.
6. Costs of modifying the product in any way once delivered to the Buyer, even if such modifications were added as a production change on other products made after the Buyer’s product was built.

**M. RIGHT TO MODIFY PRODUCT**

The Manufacturer has the right to modify this product at any time without incurring any obligation to make the same or similar modifications on products previously purchased.

**N. NO AUTHORITY TO ALTER WARRANTY**

No agent, representative, distributor or dealer has any authority to alter the terms of this warranty in any way.

**O. SPECIFIC LEGAL RIGHTS**

This warranty gives you specific legal rights and you may also have other rights which vary from State to State.



## **COMMERCIAL PRODUCT PROVISIONS**

**II. ARTICLE II—COMMERCIAL PRODUCT PROVISIONS: THE FOLLOWING PROVISIONS SHALL BE APPLICABLE ONLY IF THIS PRODUCT IS BEING PURCHASED SOLELY FOR COMMERCIAL OR INDUSTRIAL USE. IF THIS PRODUCT IS BEING PURCHASED FOR PERSONAL, FAMILY OR HOUSEHOLD PURPOSES, THE PROVISIONS CONTAINED IN THIS ARTICLE II SHALL NOT BE APPLICABLE AND THE PROVISIONS CONTAINED IN ARTICLE I ABOVE SHALL APPLY.**

### **A. 1-YEAR LIMITED WARRANTY**

The Manufacturer warrants to the Buyer that all supplied parts shall be free of defects in material and workmanship for a period of one (1) year from date of original purchase. This limited warranty covers the cost of all parts and labor needed to repair any item that is found to be defective in material and workmanship. Items covered include cables, sheaves, chains, motors, reducers, switches, control panels and ground fault circuit interrupters.

### **B. 5-YEAR LIMITED WARRANTY ON VL/PL SERIES ALUMINUM FRAME EXTRUSION**

The Manufacturer warrants to the Buyer that the frame and extrusions shall be free of defects in material and workmanship for a period of five (5) years from date of original purchase. This limited warranty covers the cost of all parts and labor needed to repair any item that is found to be defective in material and workmanship.

### **C. MANUFACTURER'S OBLIGATIONS**

The Manufacturer's sole obligation under either of these limited warranties is the replacement or repair, at the Manufacturer's discretion, of parts found to be defective.

### **D. NO SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES**

**IN NO EVENT SHALL THE MANUFACTURER BE LIABLE TO THE BUYER OR ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL LOSSES OR DAMAGES CONNECTED WITH THE USE OF THE PRODUCT UNDER WARRANTY. SUCH DAMAGES FOR WHICH THE MANUFACTURER SHALL NOT BE RESPONSIBLE INCLUDE, BUT ARE NOT LIMITED TO, LOST TIME AND CONVENIENCE, LOSS OF USE OF THE PRODUCT, THE COST OF A PRODUCT RENTAL, COSTS OF GASOLINE, TELEPHONE, TRAVEL, OR LODGING, THE LOSS OF PERSONAL OR COMMERCIAL PROPERTY, AND THE LOSS OF REVENUE.**

### **E. NO LIABILITY IN EXCESS OF PURCHASE PRICE**

**IN NO EVENT SHALL THE MANUFACTURER'S OBLIGATIONS UNDER THIS LIMITED WARRANTY EXCEED THE PURCHASE PRICE OF THE PRODUCT.**

### **F. NO EXTENSION OF STATUTE OF LIMITATIONS**

**ANY REPAIRS PERFORMED UNDER EITHER OF THESE WARRANTIES SHALL NOT IN ANY WAY EXTEND THE RESPECTIVE STATUTES OF LIMITATIONS CONTAINED IN THIS LIMITED WARRANTY.**

### **G. WAIVER OF OTHER WARRANTIES**

**THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

## **H. PROCEDURE FOR WARRANTY PERFORMANCE**

If the product fails to perform to the Manufacturer's specifications, the Buyer must contact the dealer from whom the product was purchased. The Buyer must provide the dealer with the applicable model and serial numbers, the date of purchase, and the nature of the problem.

## **I. PREAPPROVAL OF LABOR COSTS**

All labor costs related to a dealer's performance of the warranty obligations under this limited warranty must be pre-approved by Reimann & Georger Corporation Marine Products.

## **J. EXCLUSIONS FROM WARRANTY. THIS LIMITED WARRANTY DOES NOT COVER ANY OF THE FOLLOWING:**

1. Equipment which has been abused, damaged, used beyond rated capacity, or which is damaged or has defects caused by repairs or service completed by persons other than authorized service personnel.
2. Costs of repairing damage caused by environmental factors which include, but are not limited to, airborne fallout, chemicals, tree sap, salt, ocean spray, and water hazards.
3. Damage caused by acts of God which include, but are not limited to, hailstorms, windstorms, tornadoes, sandstorms, lightning, floods, and earthquakes.
4. Damage under conditions caused by fire or accident, by abuse or negligence, by improper installation, by misuse, by incorrect operation, by "normal wear and tear", by improper adjustment or alteration, by alterations not done by the Manufacturer, or by failure of product parts from such alterations.
5. Costs of repairing damage caused by poor or improper maintenance, costs of normally scheduled maintenance, or the cost of replacing any parts unless done as the result of a repair covered by your one-year limited warranty.
6. Costs of modifying the product in any way once delivered to the Buyer, even if such modifications were added as a production change on other products made after the Buyer's product was built.

## **K. RIGHT TO MODIFY PRODUCT**

The Manufacturer has the right to modify this product at any time without incurring any obligation to make the same or similar modifications on products previously purchased.

## **L. NO AUTHORITY TO ALTER WARRANTY**

No agent, representative, distributor, or dealer has any authority to alter the terms of this warranty in any way.

## **M. SPECIFIC LEGAL RIGHTS**

This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.