



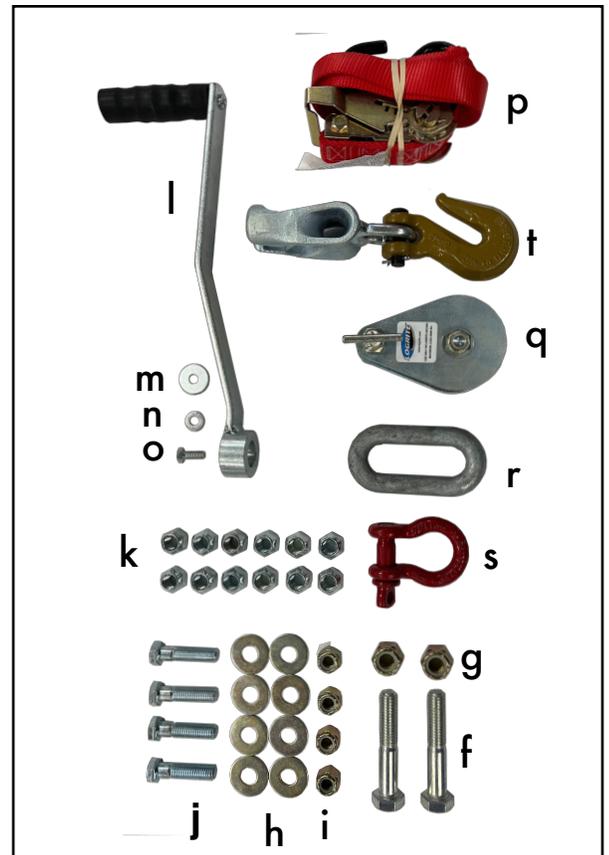
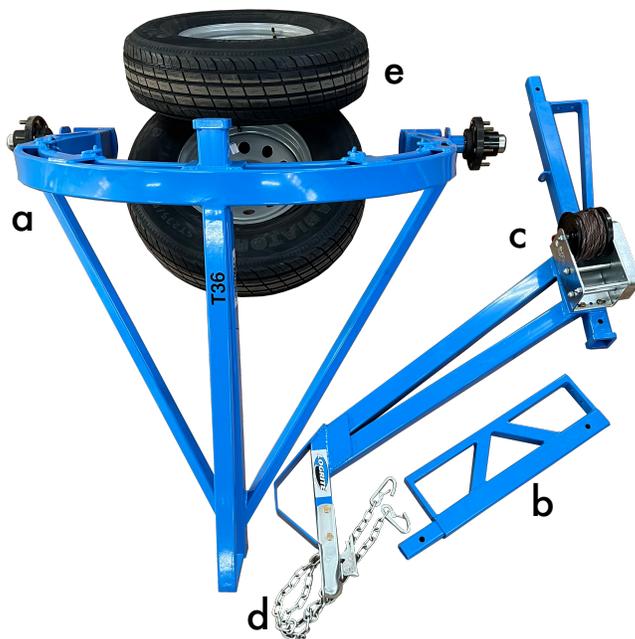
60 Industrial Park Rd  
 Vernon, CT 06066  
[www.logrite.com](http://www.logrite.com)  
 800-631-4791

## Tractor Arch T30, T36 Packing List

- |                          |  |                          |                                |
|--------------------------|--|--------------------------|--------------------------------|
| <input type="checkbox"/> | a. arch frame (qty 1)                        | <input type="checkbox"/> | l. winch handle (qty 1)        |
| <input type="checkbox"/> | b. center truss (qty 1)                      | <input type="checkbox"/> | m. 5/16" fender washer (qty 1) |
| <input type="checkbox"/> | c. drop tongue w/ winch and cable (qty 1)    | <input type="checkbox"/> | n. 5/16" washer (qty 1)        |
| <input type="checkbox"/> | d. safety chain (on drop tongue) (qty 1)     | <input type="checkbox"/> | o. 5/16" x 3/4" bolt (qty 1)   |
| <input type="checkbox"/> | e. tires (qty 2)                             | <input type="checkbox"/> | p. ratchet strap (qty 1)       |
| <input type="checkbox"/> | f. 5/8" - 11 x 3 1/2" hex head bolts (qty 2) | <input type="checkbox"/> | q. snatch block (qty 1)        |
| <input type="checkbox"/> | g. 5/8" - 11 locking nuts (qty 2)            | <input type="checkbox"/> | r. oblong ring (qty 1)         |
| <input type="checkbox"/> | h. 1/2" washers (qty 8)                      | <input type="checkbox"/> | s. shackle (qty 1)             |
| <input type="checkbox"/> | i. 1/2" - 13 lock nuts (qty 4)               | <input type="checkbox"/> | t. doubler (qty 1)             |
| <input type="checkbox"/> | j. 1/2" - 13 x 2" bolts (qty 4)              | <input type="checkbox"/> | u. Owner's Manuals             |
| <input type="checkbox"/> | k. lug nuts T30- (qty 10), T36- (qty 12)     |                          |                                |

Serial # \_\_\_\_\_

Packed by \_\_\_\_\_





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## T30 and T36 Tractor Arch Owner's Manual

You will find this implement handy if you have a tractor and any reason to move logs. You will be able to move logs your tractor could only dream about before. The ground will remain virtually undisturbed and the logs will stay clean for sawing. The arch is a steel structure with minimal working parts so it is easy to maintain. It is equipped to be pulled from a drawbar hitch with a 2" ball. The logs are lifted into the arch with a hand winch.

While the tractor arches are great for pulling, they have limited mobility and safety limits in the forest environment. If there is any serious sloping terrain in your operation, please think seriously of keeping to the road and use a winch line to bring logs to the tractor. If you are using your arch primarily on sloped terrain, you may consider adding electric brakes.



T36 with Fetching arch as tag axle.



### **WARNING**

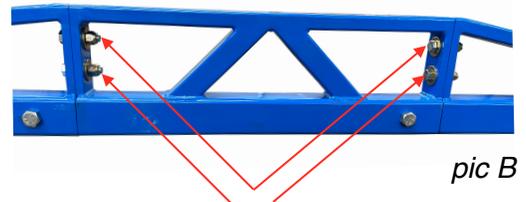
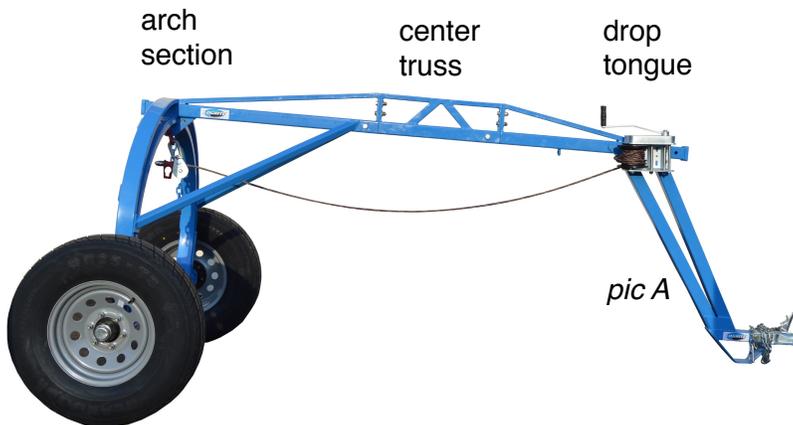
- Read all instructions including the winch manufacturer's instruction manual before using.
- Remain constantly aware that safe operating is your responsibility.
- High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone not familiar with the operation of a winch to use it. A winch accident could result in personal injury.
- Tractor arches are designed to move logs, poles, and beams only.
- Do **NOT** use the arch to move logs on any public road.
- Do **NOT** lift the arch when loaded.
- Should the load begin to fall out of control when operating, do **NOT** attempt to stop the spinning winch handle with your hands or any part of your body.
- Check winch for proper operation on each use. Do **NOT** use if damaged. Seek immediate repairs.



When unpacking arch parts from the pallet, please have two people working, as parts are heavy and may be cumbersome.

## Assembly

- Remove all parts from pallet.
- Place drop tongue section into the center truss. Use a 5/8" - 11 x 3 1/2" hex head bolt and a 5/8" - 11 locking nut, bolt into place tightly, as this is only done once (*pic A*).
- Place the center truss and drop tongue into the arch frame and bolt with a 5/8" - 11 x 3 1/2" hex head bolt and a 5/8" - 11 locking nut. Tighten with a 15/16" wrench.
- Use 1/2" - 13 X 2" bolts, 1/2" washers and 1/2" - 13 lock nuts to secure the truss to both the arch frame and drop tongue (*pic. B*). Tighten with 3/4" wrench.
- Thread winch handle onto input shaft of winch.
- Load 5/16" x 3/4" bolt with 5/16" fender washer and 5/16" washer. Use this to attach winch handle to the winch (*pic C*)\*. Tighten with a 1/2" wrench.
- Wind out enough cable to reach the back of the arch.
- Release the thumb screw on the snatch block (pulley) and mount it to the oblong ring. Use the shackle to connect the ring and snatch block through the center hole in the snatch block plate below the arch (*pic D*). Install the winch line through the snatch block, make sure the bell is on the same side as the nubbin. Close snatch block and replace the thumb screw.



\*This is a modification to Dutton-Lainson's B3500 winch handle operation.

## Use

To pick up a log, you can back over the log or use the winch cable to pull the log into the arch.

The arch is designed to pick up the weight of the log instead of the tractor. The amount of the log that is in the arch determines how much of the log weight will be picked up. If the log is 16' (T30) or 18' (T36) or less the entire log can be suspended.

Straddle the arch over the midpoint of the log. Now you are ready to choke the log and winch it into the arch.

### Lifting logs 3500 to 4000 (T30) or 6000 (T36) lbs

The doubler bell (*pic E*) **must** be used for logs in this weight range. The doubling option is when you hook the winch line into the doubler bell instead of the bell attached to the end of the winch line, this allows the log to act as a second pulley (*pic F*). Then hook the doubler to one of the four chains welded to the arch. Using the doubling option allows you to get the needed 6000 lbs of lift from the winch. Determining which chain fall to use will depend on the size and shape of your log. When using the doubler, the snatch block will move to one side and the bell to the other, allowing the log to rise much higher into the arch.

### Lifting smaller logs

On smaller and lighter logs, the winch line is hooked to itself and the winch line picks up the log (*pic G*).

### Carrying a fully suspended log

After the winching operation be sure to secure the load. Use the provided strap to hold the log at the ring on the reach of the arch just behind the drop tongue.



*pic E*



*pic F*



*pic G*

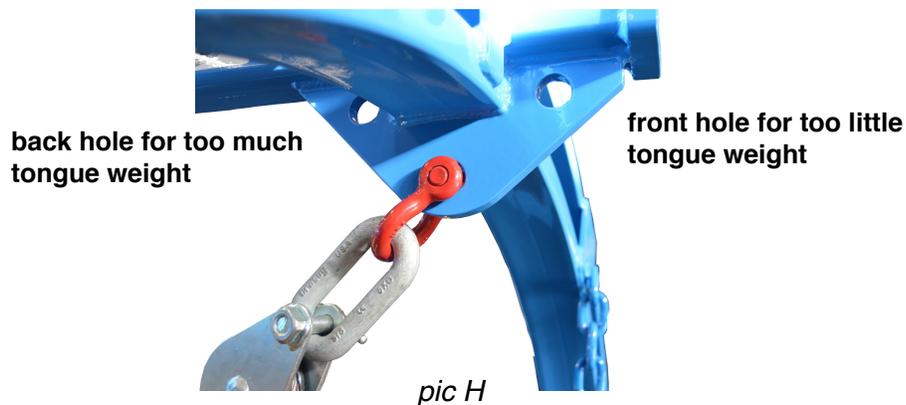
**Pro tip:** On longer logs(over 16', 18'), there will be a slight drag. This tail drag is often a slight advantage, as the log will trail straight behind the arch. It might also be used as resistance when on a gentle slope.

## Adjusting the tongue weight

The arches are designed to have a neutral tongue weight. However, depending on your load it may be necessary to change the tongue weight.

Logs loaded with more weight extending out from the arch can cause negative tongue weight. This can cause the tractor to become unstable. Lower the log giving yourself some extra cable to work with. Detach the shackle and change the attachment of the snatch block to the front hole in the snatch block plate on the front of the arch (*pic H*).

Attaching the snatch block to the back hole is recommended when there is too much tongue weight.



## Winch Operating Instructions

A slight modification was made to your winch to allow the operator to unwind the cable without a load. To release the cable from the winch turn the handle in counterclockwise direction. Now by pulling gently on the winch cable you can free spool until the desired amount of cable has been released. Do NOT attempt to stop the spinning winch handle with your hands or any part of your body. If too much tension is placed on the cable the brake will be engaged and stop the release of cable.

After choking the log, wind the handle in clockwise direction to lift the load. The braking winch is designed to keep the load in position when the handle is released, but for extra security it is recommended that the handle be turned clockwise until at least two clicks are heard. This will add extra tightness to the brake mechanism. Always make sure that the winch is holding the load before releasing the winch handle.

To lower the load, wind the winch handle counterclockwise until the load is on the ground and the cable is slack enough to work with.

## Additional Information for Using the Winch

- Break in the new winch cable.
- Take a little extra time to pull out cable slack before winching.
- NEVER pull all the cable out of your winch (always leave at least three wraps of cable on the spool).
- Brace yourself when winching in a log. Take out the slack then grab onto the arch with your free hand.
- Always lower the load in control.
- Should the load begin to fall out of control when operating, do **NOT** attempt to stop the spinning winch handle with your hands or any part of your body.
- Operate with hand power only. This winch must not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably overloaded.

## Specific Applications (Items can be locally sourced.)

The tractor arches have provisions for mounting a power winch in the front or rear receivers. Use the front receiver to pull the arch with its load out of an area which is difficult to reach with your tractor. Use the rear receiver mount to pull logs to the arch and tractor.

If you will be using your arch primarily on sloped terrain, you may consider adding electric brakes.

The rear receiver mount can be fitted with a light bar to be used when moving the arch to the job site.

## Maintenance

- Check the coupler, winch and snatch blocks daily.
- Inspect winch cable on every use. Replace cable at the first signs of kinks, broken wires, deformation or any other damage.
- Keep the winch line unsnarled.
- Pack the hubs with grease annually or after heavy use.
- Keep tires at recommended pressure.
- See Dutton-Laisson owner's manual for proper winch maintenance.



**WARNING** READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THIS WINCH. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN SERIOUS OR FATAL INJURY. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.



## IMPORTANT SAFETY INFORMATION

- This brake winch is built for multi-purpose hauling and lifting operations. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.
- Respect this winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.
- Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.
- Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury. This winch is rated

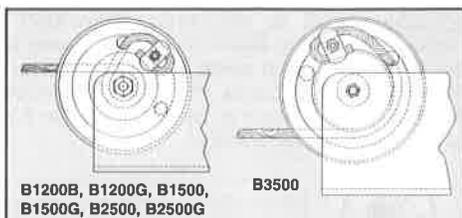
on third layer of cable on drum with drum size of 1-5/16" or less. It is rated on first layer of cable on drum with drum size of 2-1/2" or more. Using more layers of cable increases the load on the winch.

- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel. Check cable on every use. Replace at the first sign of kinks, broken wires, deformation or any other damage.
- Secure load properly. When winching operation is complete, do not depend on winch to support load.
- Operate with hand power only. This winch must not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably overloaded.

**ASSEMBLY** – Thread the handle onto the winch drive shaft and be certain that a clicking noise is produced when the handle is turned clockwise. Install the spring, shaft extension, washer and bolt on the end of the drive shaft as shown on parts drawing. These parts may appear to serve no function, but they provide several important fail-safe features, and must not be altered or removed.

**WINCH MOUNTING AND CABLE ATTACHMENT** – For maximum strength and safety, this winch must be mounted with three 3/8" bolts (M10), washers and lock washers. Use Grade 8 for 1500 lb./680 kg or greater capacity. (See parts drawing). Position winch so that cable approaches from reel end as shown.

Attach cable or rope by method described in sketch.



**OPERATING INSTRUCTIONS** – Wind cable on winch reel by turning winch handle in clockwise direction. This should produce a loud, sharp, clicking noise. The load will remain in position when the handle is released. Wind cable off the winch reel by turning winch handle counterclockwise (no noise will be produced). The load will remain in position when the handle is released, but for extra security it is recommended that the handle be turned clockwise until at least two clicks are heard. This will add extra tightness to the brake mechanism. Always satisfy yourself that the winch is holding the load before releasing the winch handle.

**IMPORTANT:** Sufficient load must be applied to the cable to overcome internal resistance and operate the brake properly; otherwise turning the crank handle counterclockwise will only remove the handle from the shaft – the reel will not turn. The minimum operating load requirement is 75 lbs. (34 kg) for Models B1200B & B1200G, 150 lbs. (68 kg) for B1500 & B1500G, 300 lbs. (136 kg) for B2500 & B2500G and 500 lbs. (227 kg) for B3500.



**NOT FOR THE MOVEMENT OF HUMAN BEINGS**

**WINCH MAINTENANCE** – Keep winch in good working order. Damaged or severely-worn parts create unnecessary dangers and could result in personal injury or property damage. The winch requires periodic maintenance. The following check must be made at least once annually and more frequently when the winch is exposed to an environment which is particularly dirty or wet.

1. Remove all of the load from the winch so that there is slack in the cable. Remove the winch handle and gear cover for inspection of the winch gear train and brake mechanism. This requires removal of bolt #204213 along with the flat washer, spacer and spring and requires that the handle be unthreaded (counterclockwise direction) from the drive shaft. The gear cover can then be removed.
2. Examine the winch gear train and brake mechanism for any rust, corrosion or build up of debris which might be present. Grasp the ratchet pawl #404409 and lift it out of contact with the ratchet wheel. Remove the ratchet wheel #404408 and two brake plates #205123 from the drive shaft. **IMPORTANT!** Relax the spring tension on the ratchet pawl paying particular attention to the attachment of the pawl to the spring and the amount of tension in the spring.
3. Check the entire gear train for any abnormal wear and be sure that the entire gear train turns freely. Grease all of the gear teeth with a good wheel bearing grease. Remove and grease reel bolt, reinstall reel bolt and tighten, making sure that reel shaft will not rotate in winch base.
4. Check the ratchet wheel, brake lining plates, winch handle hub and the washer on the drive shaft ass'y for any build up or glaze (shiny spots) which may be present. This can be removed by rubbing these parts

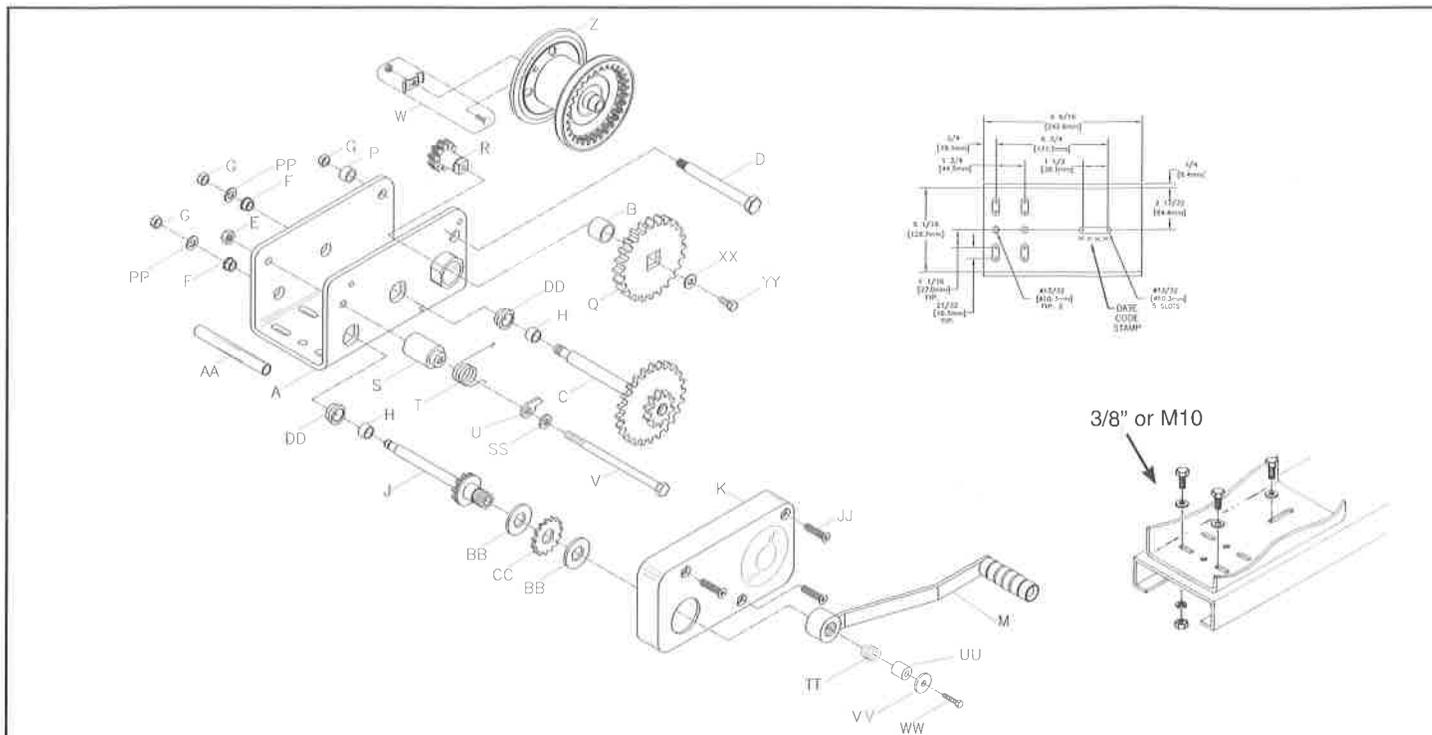
lightly with sand paper. **CAUTION!** Do not grease or oil any of the brake mechanism parts. Check the threads on the drive shaft ass'y and the threads in the handle hub to be sure that both are free of any rust or corrosion. Make sure that the handle runs freely onto the drive shaft thread without any binding whatsoever. Apply a small amount of grease to the threaded area to keep these parts moving freely.

5. Reassemble the two brake pads and the ratchet wheel onto the drive shaft while holding tension in the ratchet pawl. All of these parts should spin freely on the drive shaft. Be sure that the pawl properly engages with the teeth on the ratchet wheel. Thread the winch handle onto the drive shaft and check the operation of the winch. When cranking the handle in the clockwise direction, the ratchet wheel should turn with the shaft causing the pawl to snap in and out of the ratchet wheel teeth. In the counterclockwise direction the ratchet wheel should remain stationary while the handle turns.
6. Completely reassemble the winch gear cover, handle and all remaining parts. Check the mounting of the winch to be sure that it is secure and check the cable for any abnormal stiffness, kinking or broken strands. Replace the winch cable at the first sign of any damage. **NOTE:** Winch cable will last longer and remain more flexible with occasional application of light oil. The winch finish can be protected and will provide longer service if it is washed with water and then wiped with light oil or wax.

If you have any questions whatsoever concerning the above procedure, please contact the manufacturer.



# B3500 Winch



## B3500 Winch Parts List

Ref.	Description	Part No.	Ref.	Description	Part No.	Ref.	Description	Part No.
A	Base	304604-PL	M	Handle w/Decal	5703509	AA	Spacer 2 pcs.	404371 & 404723
B	Bearing	205133	P	Spacer	404718	BB	Pressure Plate (2)	205123
C	Drive Shaft	304599	Q	Gear	304601	CC	Ratchet Wheel	404408
D	Bolt	204145	R	Drive Shaft	304194	DD	Housing (2)	404476
E	Locknut	204803	S	Spacer	404704	JJ	Screw (3)	205125
F	Bearing (2)	204148	T	Spring	204142	PP	Washer (2)	204360-PL
G	Locknut (3)	205015	U	Pawl	404409	SS	Washer	205055
H	Bearing (2)	205183	V	Bolt	404724	TT	Spring	204212
J	Drive Shaft	304595	W	Rope Clamp Kit	304321	UU	Shaft Extension	404122
K	Gear Cover	404703	Z	Reel 3-1/8" Hub	304603-BK	VV	Washer	205119
						WW	Bolt	204213
						XX	Washer	205044
						YY	Bolt	205121

**ENGLISH: WARNING:** Component parts should not be interchanged with the component parts of any other Dutton-Lainson model or other manufacturer's winches.

**DEUTSCH: ACHTUNG:** Die Komponenten dürfen nicht gegen andere Komponenten anderer Modelle der Dutton-Lainson Company oder der Winden anderer Hersteller ausgetauscht werden.

**FRANÇAIS: AVERTISSEMENT :** Ces composants ne doivent pas être utilisés de manière interchangeable avec les composants d'aucun autre modèle de Dutton-Lainson Company ou avec les treuils d'un autre fabricant.

**ITALIANO: AVVERTIMENTO:** Questi componenti non devono essere utilizzati in modo intercambiabile con i componenti di qualsiasi altro modello della Dutton-Lainson Company o con i verricelli di un altro fabbricante.

**ESPAÑOL: ADVERTENCIA:** No se debe intercambiar estas piezas con las de algún otro modelo de cabrestante de la Dutton-Lainson Company o de otro fabricante.

**NEDERLANDS: WAARSCHUWING:** Deze onderdelen mogen niet verwisseld worden met de onderdelen van andere liermodellen van Dutton-Lainson Company of van lieren van andere fabrikanten.

**DANSK: ADVARSEL:** Disse komponentdele må ikke blive udskiftet med komponentdele, der hører til andre modeller fra Dutton-Lainson Company eller til spil af andre fabrikater.

**NORSK: ADVARSEL:** Disse komponentdelene skal ikke byttes om med komponentdeler for noen annen vinsj verken fra Dutton-Lainson Company eller noen annen produsent.

**SUOMI: VAROITUS:** Tämän mallin ja muiden Dutton-Lainson Companyn tai muiden valmistajien vintturien osia ei saa vaihtaa koskenään.

**SVENSKA: VARNING:** Byt inte ut komponentdelarna mot komponentdelar från andra vinschar tillverkade av Dutton-Lainson Company eller från andra tillverkares vinschar (eller tvärtom).

**ΕΛΛΗΝΙΚΑ ΠΡΟΕΙΔΟΠΟΙΗΣΗ** Αυτά τα συνθετικά μέρη να μην αντικατασταθούν με συνθετικά μέρη άλλου μοντέλου της εταιρίας Dutton-Lainson ή βαρούλκα άλλου εργοστασίου.

**PORTUGUÊS: ADVERTÊNCIA:** Esses componentes não devem ser intercambiados com componentes de nenhum outro modelo da Dutton-Lainson Company nem de guinchos de outros fabricantes.

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info@eurowarehouse.nl

To order replacement parts contact:

**Dutton-Lainson Company**  
www.dlco.com  
Tel: 800-569-6577  
Fax: 402-460-4612  
e-mail: DLsales@dutton-lainson.com



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## **Warranty Statement for Log Arches**

LogRite Tools believes that log arches of our manufacture are of quality construction and superior design. We urge our customer to closely inspect their purchases immediately upon receipt. If anything is not satisfactory, it will be immediately repaired or replaced at our cost and decision.

If during the course of use, any of our products fail structurally or fails to perform the tasks it is designed for and represented as, LogRite Tools will do everything to make the product perform as intended.

If during the course of use, the product is not performing as represented, LogRite Tools invites the owner to call our toll free line for a discussion of uses and techniques, including how to use the products in order to achieve satisfactory results.

This warranty is intended for the original owner and for the period of 2 years. With correct use and maintenance LogRite products will provide a lifetime of use.

This warranty does not imply any liability to the uses of the products, which are at the discretion of the owner.

If there are any questions as to the extent or applicability of this warranty, please call immediately to resolve these questions.