



Ledwell HydraTail



Ledwell & Son Enterprises, Inc.

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Se Habla Español



LEDWELL EQUIPMENT WARRANTY

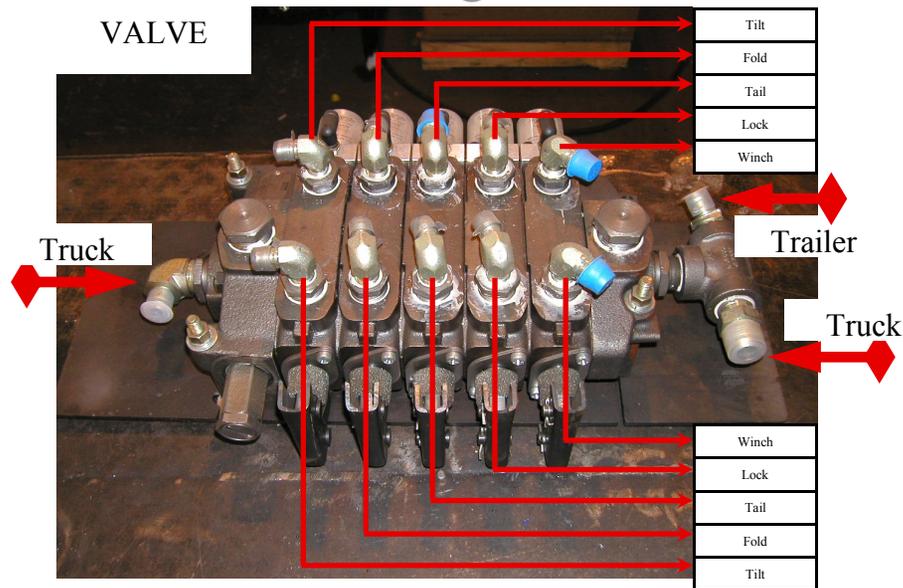
Ledwell warranty assures the purchaser that should a defect in material or workmanship occur during the warranty period, Ledwell will assume specific repair responsibilities as listed in this warranty statement. Warranty period shall begin on the date the product is delivered to the customer and continue for one year from that date. The following guidelines should be followed when making repairs to Ledwell equipment whenever possible.

1. Reimbursement for parts used in warranty repairs will be credited only when the replacement parts are ordered from and returned to Ledwell & Son Enterprises.
 2. All replacement parts sent to the customer will be billed to the customer. The warranty claim will be reviewed, and determination will be made as to its disposal. If approved, replacement parts cost will be credited to the customer.
 3. When replacement parts are shipped from Ledwell, freight will be prepaid by Ledwell and will be shipped by the most economical means to arrive in the shortest possible time. Air, Next Day Air, Priority and other special shipments requested by the customer will be at the customer's expense.
 4. Warranty labor reimbursement for labor expense to the customer will be paid at the most reasonable and customary rate. Repair times will be reviewed by Ledwell and may be adjusted to average repair times required by other shops to make similar repairs.
 5. Reimbursements for repairs made by outside sources other than customer shops will be made for those services deemed necessary for the resolution of the warranty by Ledwell's warranty department. Outside repair invoices must have prior approval from Ledwell's warranty department.
 6. In all cases, the most economical repair should be performed unless otherwise directed.
 7. Only those parts provided by Ledwell will be covered by our warranty.
 8. Service bulletins will be issued when necessary to alert customer of special repairs and maintenance procedures.
 9. Approved Claims will be paid in a timely manner.
 10. Notice of denied claims will be sent along with a statement as to the reason for the denial within 30 days of receipt of said claim.
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Ledwell HydraTail

Hydraulic Valves

*Check all valve operations
and inspect hoses for
loose fittings or cracks*



Valve Assembly
P/N: DA53X5

CAUTION

When loading or unloading, be aware of any overhead obstructions — power lines, buildings, etc. — that could create a safety hazard during the operation.

*Included Literature with
EVERY Ledwell HydraTail*

Please, read and follow manufacturer maintenance guides.



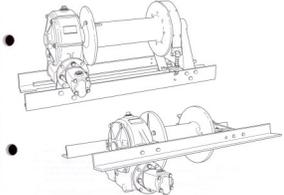
Ledwell Hydratail

P.O. Box 1106
Texarkana, TX 75504
Robison Road & Waco Street
Phone: (903) 838-6551
1-888-LEDWELL

BRADEN

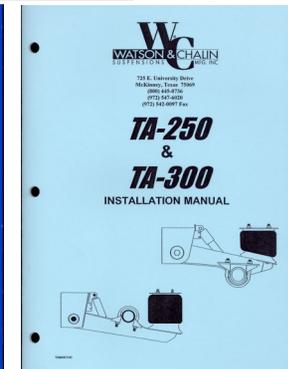
RECOVERY WINCH

INSTALLATION, OPERATION AND PREVENTIVE MAINTENANCE MANUAL

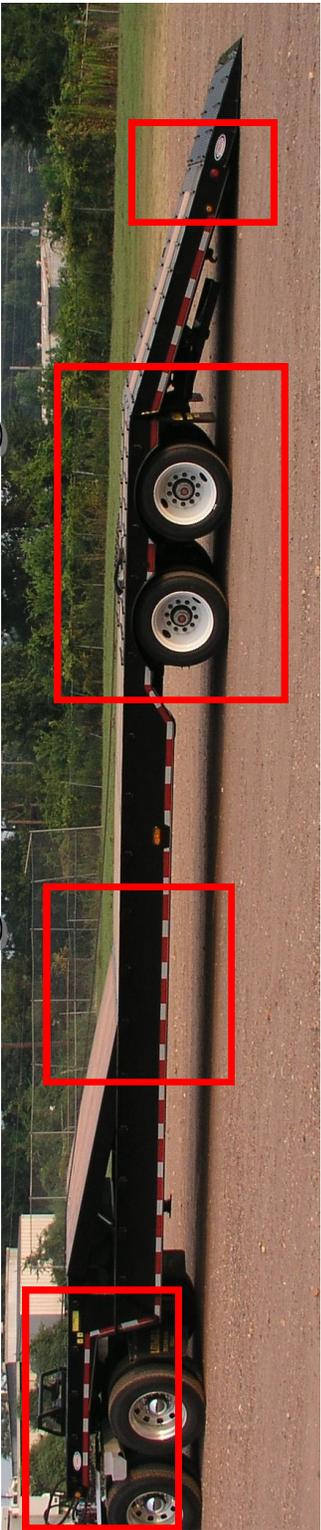


This manual must always accompany winch and remain within easy access of winch operator.
Read and understand this manual before installing, operating or servicing your Braden Recovery winch.

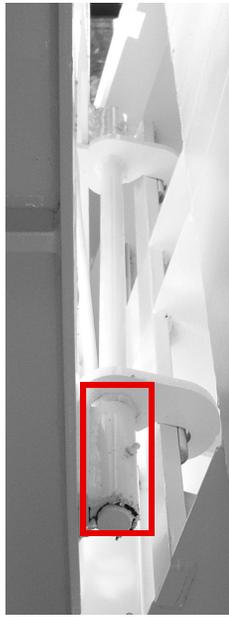
BRADEN WINCH DIVISION
P.O. BOX 100, BRADEN, MISSOURI, U.S.A. 64618
PHONE: (816) 633-2222 FAX: (816) 633-2222
www.bradenwinch.com



Most common grease fitting locations

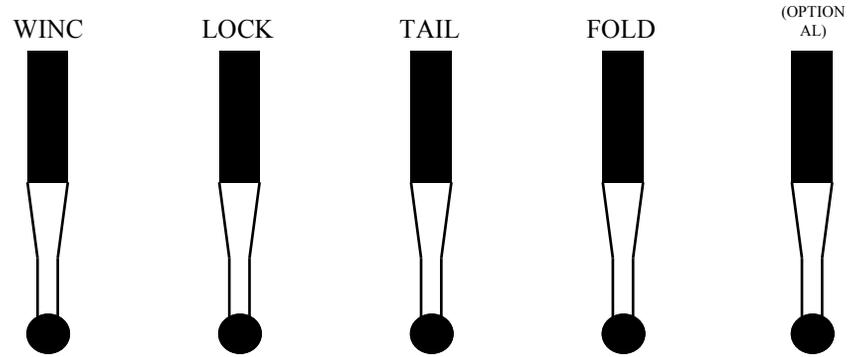


*Inspect and grease all grease fittings
at least once a month, proper care
of these fittings will assure smooth
motion of your HydraTail operation*



NOTICE

CONTROL LEVERS AS THEY APPEAR ON THE



WINCH

Pull the winch lever toward you and the winch will take up cable
Push the winch lever away from you and the winch will play out cable

LOCK

Pull the lock lever toward you to lock the tail portion of the deck in the transport position
Push the lock lever away from you to unlock the tail so that it can be lowered to the ground.

*(NOTE: Tail must be lifted slightly before unlocking)
(Tail lift and lower instructions are directly below)*

TAIL

Pull the tail lever toward you to lower the tail
Push the tail lever away from you to lift the tail

FOLD

Pull the fold lever toward you to fold and stow the ramp extension
Push the fold lever away from you to unfold the ramp extension to the loading position

If your trailer is a Mini-Deck or HydraTilt HydraTail it will have a tilt lever:

TILT

Push this lever to raise the front edge of the lower deck to match surface of the upper deck

Pull the lever to lower the deck back down to the level position

NOTICE

CONTROLS

Power take off:

Controls on power take-offs may be one of two types, cable shifted or air shifted.

Cable shifted power take-offs are engaged by a push-pull cable with the knob mounted on the floor of the truck cab to the right or left side of the driver's seat. To engage this power take-off, depress the clutch pedal of the truck and pull the knob up as far as it will go and release the clutch pedal. The power take-off should be engaged. To disengage this power take-off, depress the clutch pedal of the truck and push the knob down as far as it will go and release the clutch pedal. The power take-off should be disengaged.

Air shifted power take-offs are engaged by an air cylinder mounted on the power take-off. Air lines connect the air cylinder to a toggle valve mounted on the floor of the truck cab to the right or left side of the driver's seat. To engage this power take-off, depress the clutch pedal and pull up on the loading sleeve on the toggle valve handle and push the toggle valve handle forward. Notice the pilot light adjacent to the handle, do not release the clutch pedal until the pilot light comes on. (With some trucks, it may be necessary to slightly release the clutch pedal to fully engage the power take-off.) To disengage the power take-off, depress the clutch pedal and pull up on the locking sleeve on the toggle valve handle and pull the handle rearward. Do not release the clutch pedal until the pilot light goes out. (Again, with some trucks, it may be necessary to slightly release the clutch pedal to fully disengage the power take-off.)

Loading and unloading:

The controls for getting the trailer configured to load or unload are located under the upper deck just forward of the trailer neck. Some units are also equipped with remote control kits, which operate the same as the manual controls located on the trailer.

To configure the trailer for loading from the ground, position the trailer at the location where you wish to load and set the parking brakes. At the trailer controls lift the tail enough to unfold the extension ramp. Unlock the tail lock. Next unfold the extension ramp and lower tail to the ground.

You are now ready to hook the winch line to the object to be loaded and winch the object up the ramp and onto the deck. A great deal of the loads hauled on these trailers are self powered and capable of being driven onto the deck under their own power. It is recommended that you load and unload these items with the winch to avoid the possibility of a run away load.

NOTICE

RETORQUE AFTER EACH OF THE FOLLOWING INCREMENTS

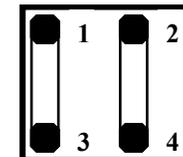
FIRST 5 DAYS OF SERVICE

FIRST 60 DAYS OF SERVICE

FIRST 30 DAYS OF SERVICE

EVERY 6 MONTHS THEREAFTER

Bolts must be tightened and torqued using a cross pattern sequence. Tighten #1 & #4 to partial torque then partial torque #2 & #3. Using the same sequence fully torque U-Bolts Nuts.



TORQUE REQUIREMENTS (non Plated) CLEAN LUBRICATED THREADS

(UNF—Grade 8) Size-	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
U-BOLT MIN FOOT LBS	15	40	120	200	400	650	800
U-BOLT MAX FOOT LBS	20	60	150	250	450	750	900
Capscrew—Bolts Size-	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"
TORQUE MIN FOOT LBS	25	50	150	300	500	700	900
TORQUE MAX FOOT LBS	35	75	200	350	550	800	1000

Torque Values **DO NOT** apply to air springs, or low grade fasteners.

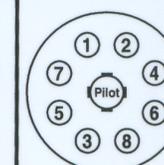
THIS VEHICLE IS EQUIPPED WITH HUB PILOTED WHEEL SYSTEM



10-Hole
Sequence

WHEEL INSTALLATION

- AVOID WHEEL OR BRAKE DRUM BINDING ON HUB
- USE 2-PIECE FLANGE NUTS, RIGHT HAND THREAD
- BEFORE INSTALLING NUTS, APPLY OIL TO STUD THREADS, AND BETWEEN NUT BODY & FLANGE
- TORQUE SEQUENCE PER 8 OR 10 HOLE DIAGRAM
- TIGHTEN NUTS FIRST TO 50 FT-LB, THEN TO 450-500 FT-LB TORQUE
- RETORQUE 50 TO 100 MILES AFTER INSTALLATION, CHECK TORQUE PERIODICALLY THEREAFTER.



8-Hole
Sequence

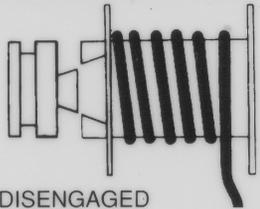
Wheel and tire servicing can be dangerous. ALWAYS REMOVE ALL AIR FIRST BEFORE DEMOUNTING TIRES. Follow proper procedures as required by OSHA Regulation 1910,177 for tire and rim / wheel servicing.

NOTICE

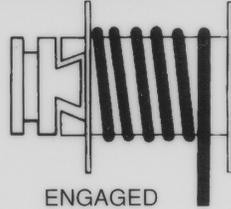
If the ABS indicator lamp comes on *and* stays on when you apply the brakes to a *moving* vehicle, the trailer ABS is not working properly. The ABS must be serviced as soon as possible upon completion of your trip to ensure full anti-lock braking capability.

WINCH DRUM CLUTCH CONTROL

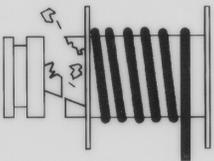
! WARNING



• DO NOT move the load or the winch platform, or operate the winch before making certain the drum clutch is set to “engage” and the clutch is fully engaged.



A load on the winch line may prevent a partially-engaged clutch from disengaging, but any change in the load may allow the clutch to disengage unexpectedly. This could result in loss of load control, property damage, injury, or death.



- DO NOT attempt to engage drum clutch while cable drum is rotating.
- DO NOT attempt to disengage drum clutch with a load applied to the winch cable.

Engaging or disengaging the drum clutch while the cable drum is rotating or under load may result in damage to drum clutch components. Damaged drum clutch components may disengage under load, which could result in loss of load control, property damage, injury, or death.

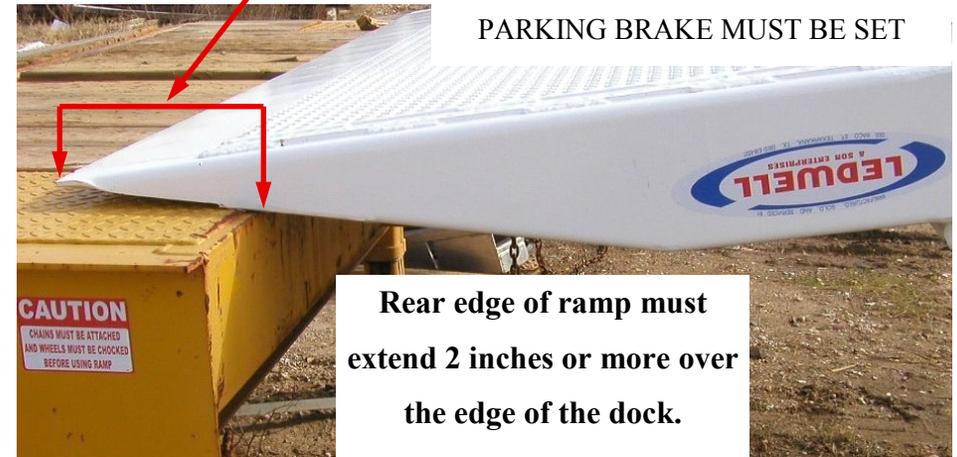
NOTICE

LOADING AND UNLOADING FROM AND ONTO A DOCK

The tail of the trailer can be lifted and positioned so that the extension or tail rests on the dock. (Refer to the picture below.) **At least 2 inches of the extension or tail must extend over the dock and be resting on the dock with the parking brakes set on the tractor and trailer,** before any loading or unloading is attempted. If self powered equipment is to be driven onto or off the trailer, it is very important to check the reliability of the brakes on the equipment to assure safe operation during the loading and/or unloading process.

CAUTION

MUST BE NO LESS THAN 2 INCHES



PARKING BRAKE MUST BE SET

Rear edge of ramp must extend 2 inches or more over the edge of the dock.