

Dragon Products, Ltd.

Product: Two Container Roll-Off Trailer

Model: TCT-440-120CC

Owners, Operators, & Parts Manual

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Introduction

This manual is designed to cover trailer mounted roll-off hoists. In order to accomplish this, composite drawings and charts are used.

Disclaimer

This manual has been compiled from many different sources and should be used only as a reference tool. The information herein is believed to be accurate. However, Dragon Products, Ltd.. disclaims any warranty expressed or implied or any liability or responsibility for the accuracy or correctness of any calculation or information which is critical.

Ordering Parts

When ordering parts assembly's and accessories, in addition to the part number, description, and quantity, please state the trailer model number and serial number. These numbers can be found on the VIN tag located on the front drivers side of the trailer.

Technical Disclaimer

The information in this manual is intended to give the user a basic knowledge of the operation of this equipment. Fully trained and authorized personnel should perform any service or repair needed.

!! WARNING !!

IF INCORRECTLY USED, THIS EQUIPMENT CAN CAUSE <u>SEVERE INJURY</u>.

OPERATOR SHOULD BE
TRAINED IN SAFE
METHODS OF USE, LOCATE
AND UNDERSTAND ALL
SAFETY DECALS, AND
READ THIS ENTIRE
MANUAL BEFORE
OPERATING, SERVICING OR
ADJUSTING THIS
EQUIPMENT.

NOTICE

ONLY FULLY TRAINED AND AUTHORIZED PERSONNELSHOULD OPERATE THIS EQUIPMENT

SAFETY REQUIREMENTS

revent serious injury by always following the safety precautions. It is the owner-user's responsibility to insure these guidelines are always followed.

- > ALWAYS check for overhead obstructions before operating hoist.
- > **NEVER** work under or place your hands or body under the hoist when it is in the up position.
- > ALWAYS inspect the condition of the cable before loading a container. Check for broken or worn cable strands, check for fraying or cuts in cable. Cable must be replaced before operation if it exhibits any of the above conditions.
- > **NEVER** weld on hoist frame or trailer frame.

ADDITIONAL SAFETY PRECAUTIONS

!! WARNING !!

READ THIS BEFORE OPERATING THE HOIST THE FOLLOWING PRECAUTIONS SHOULD ALWAYS BE OBSERVED!!

The following information contains guidelines for operating your roll-off trailer. The comments are **NOT** intended to exhaust every possible situation that could arise while operating the hoist, but are intended generally to promote safe operation of the trailer

Before using your hoist, be sure the operating area is clear of people. Check the area for low power lines or any other obstacle, which may endanger personnel or damage equipment. The loading, unloading and dumping area should be as level and solid as possible.	CAUTION: Check the cable for excessive wear and replace as needed. Cable manufacturers recommend changing the cable once a year and factory concurs.
	<u>CAUTION:</u> Observe and obey all "CAUTION" & "WARNING" decals on both trailer and containers.
CAUTION: Extreme care should be taken if a loaded container is in the raised position when moving. Proper operation would require never moving the trailer with hoist in raised position.	Always power hoist down. DO NOT let the weight of the hoist push itself down.
<u>CAUTION:</u> Extreme care should be taken if chains are used to transfer container. The hydraulic system has enough force to break most chains.	<u>CAUTION:</u> Check to ensure the cable, cable hook, and container are securely attached before trying to load a container.
CAUTION: Never adjust the hydraulic pressure setting without the use of a working pressure gauge. Do	<u>CAUTION:</u> DO NOT use a chain to hook onto the container for loading purposes.
not set the pressure to exceed 2,000 P.S.I.	<u>CAUTION:</u> NEVER drive the truck with the P.T.O. engaged
<u>CAUTION:</u> Use only one hydraulic valve control at a time. The hydraulic valve is not designed to operate two or more functions simultaneously.	CAUTION: NEVER drive the truck unless the hoist is in the full down position.
Do not alter the hydraulic valves or the hydraulic system in any way without prior approval, in writing, from the factory.	<u>CAUTION:</u> Hydraulic oil warm-up is required in very cold weather. Engage P.T.O. and let truck idle for five minutes.
Never use a locking device to hold the valve open, as the valves are designed to return to the center position to stop the hydraulic system movement, as a safety factor.	

Your roll-off trailer has been designed to give extended service when used with good safety habits, within its rated capacity and a regular maintenance and lubrication program.

RESPECT YOURSELF, OTHERS, AND THIS EQUIPMENT DURING USE.
GOOD SAFETY HABITS AND COMMON SENSE SHOULD BE USED WHEN
OPERATING THIS EQUIPMENT

LOCK-OUT PROCEDURE

The purpose of this procedure is to establish performance habits, which provide for the protection from injury of personnel in, on, or around the equipment during repair, maintenance, and other associated activities.

A suggested plan to achieve this purpose is outlined as follows:

- 1. Remove key from ignition.
- 2. Tag all controls to inform personnel the equipment is "under repair", "do not operate", or whatever the situation dictates. All affected personnel must be previously informed as to the meaning and appearance of the Lockout Tag.
 - The Lockout Tags must be made out of a material capable of withstanding the environment to which they are exposed (Ex. Oil, grease, fuel,... etc.).
- 3. Only an authorized individual should be able to release the equipment after the repair has been made.
- 4. Lockout procedure should be tested to verify safe performance. All personnel should be informed and clear of working area during performance test.

RESPONSIBILITES OF LOCKOUT PROCEDURE:

- 1. Compliance with and development of the Lockout Procedure shall be the responsibility of the employer and employee.
- 2. The employer should verify the correct use of the Lockout Procedure and perform periodic inspections of the procedure.

All individuals affected must be notified and trained of the requirements for compliance with the Lockout Procedure.

OPERATOR \ EMPLOYEE RESPONSIBILITY'S

Employees \ Operators who work on mobile equipment shall be responsible for:

- 1. Using all applicable safety features provided on the equipment.
- 2. Using equipment only after being properly instructed and trained in accordance with Owner \ Employer Responsibility Items (1) and (2).
- 3. Reporting any damage to, or malfunction of, the equipment by submitting a report to the employer or responsible authority either when the damage occurs or as soon thereafter as practical at the termination of the operating day. The employer shall document such reports.
- 4. Ensuring the area of operation around the container dumping system is clear of all persons during all phases of the dumping operations prior to energizing the dumping system.
- 5. Ensuring all persons are clear of tailgate before the tailgate is opened or shut. The operator shall warn all persons not to cross under an open tailgate.
- 6. Operating all equipment in accordance with the manufacturer's instructions.
- 7. Riding only in the cab and not on any other part of the mobile equipment.
- 8. Never bypass or remove safety devices, which have been installed on the equipment.
- 9. Do not operate equipment if work ability is impaired by fatigue, illness, or other causes.
- 10. BE ALERT TO ALL POSSIBLE HAZARDOUS SITUATIONS AND CONDITIONS!

PLEASE NOTE THE OWNER\EMPLOYER AND OPERATOR\EMPLOYEE
RESPONSIBILITIES LISTED ARE ONLY A GUIDELINE. THERE ARE OTHER
RESPONSIBILITIES, AS DICTATED BY THE UNIQUENESS OF EACH
INSTALLATION, FOR WHICH THE OWNER\EMPLOYER AND
OPERATOR\EMPLOYEE ARE RESPONSIBLE.

OWNER \ EMPLOYER RESPONSIBILITY'S

The employer shall properly maintain mobile equipment to meet all applicable regulatory safety standards and shall be responsible for:

- 1. Providing instruction and training in safe methods of work to employees before assigning them to operate clean, service, maintain, or repair the equipment. Such instruction and training shall include procedures provided by the manufacturer.
- 2. Monitoring the employee's operation of equipment and taking appropriate action to ensure proper use of the equipment, including adherence to safe practices.
- 3. Establishing and following a program of periodic and regular inspections of all equipment to ensure all parts, component equipment, and safeguards are in safe operating condition and adjusted in accordance with the manufacturer's recommended procedures. This shall include keeping all malfunction reports, and records of inspections and maintenance work preformed.
- 4. Repairing, prior to placing equipment into service, any mechanical malfunction or breakdown that affects the safe operation of the equipment.
- 5. Ensuring the hoist will not be used to lift and haul any weight that is believed to exceed the load rating of any of the individual components of the entire piece of equipment (Ex: hoist, tires, truck chassis, suspension, ...etc.)
- 6. Ensuring component equipment, bodies, or hoist, when raised for service or maintenance, have additional support by utilizing hoist props, and/or any other means necessary as each situation dictates.
- 7. Following the manufacturer's lockout procedures.

On hoists that carry detachable containers, the employer shall affix a sign or mark near the cab on the driver's side stating the minimum overhead clearance required for the vehicle height dimension when all equipment, including the container, is positioned for normal over-the-road travel.

HOIST START-UP PROCEDURE

OPERATOR IS RESPONSIBLE FOR COMPLIANCE WITH LOCAL, STATE, AND FEDERAL WEIGHT REGULATIONS.

!! CAUTION !!

PROPERLY TRAINED PERSONNEL SHOULD OPERATE THIS EQUIPMENT. THE HOIST SHOULD NOT BE USED TO LIFT AND HAUL ANDY WEIGHT THAT IS BELIEVED TO EXCEED THE LOAD RATING OF ANY OF THE INDIVIDUAL COMPONENTS OF THE ENTIRE PIECE OF EQUIPMENT. (EX. HOIST, TIRES, TRUCK CHASSIS, SUSPENSION, ETC....) IMPROPER USE, MISUSE, OR LACK OF MAINTENANCE COULD CAUSE INJURY TO PERSONS AND OR DAMAGE TO PROPERTY.

!! WARNING!!

DO NOT ATTEMPT TO OPERATE THE HYDRAULIC SYSTEM BEFORE FILLING HYDRAULIC TANK WITH HYDRAULIC OIL.

Step #1: Grease all working points on hoist.

Step #2: Fill hydraulic system with a good grade of S.A.E. hydraulic oil, such as:

Shell-Turbo 46, Tellus 46

Citgo-Pacemaker 46, Tellus AW46

Exxon-Teresstic 46, Nuto 46

Chevron, AW46 Texaco-Rando 46 Unical - Duro 46

Never use a foaming type (detergent) hydraulic oil.

Step #3: Recheck all clearances before raising hoist.

Step #4: Slowly extend all cylinders and add balance of oil required.

Step #5: Check all clearances with hoist in raised position.

Step #6: Cycle single stage cylinders at least twice to purge air from system. Air must

be bled from telescopic cylinders through bleeder screws located at the ends

of the cylinder.

Step #7: All hydraulic connections and components should be checked for leaks

while system is under pressure.

OPERATIONAL PROCEDURE

The following information is a guideline for operating a Roll-Off Trailer. These instructions do not exhaust every possible situation that could occur when operating the equipment, but are intended to promote efficient and proper operation.

!!WARNING!!

BEFORE OPERATING THIS EQUIPMENT

- 1. **BE SURE** the area is clear of people.
- 2. **CHECK** the area for low power lines or any other obstacle which may interfere with hoist operation.
- 3. **NEVER** operate equipment which is damaged and \ or improperly maintained.
- 4. **ALWAYS** operate the equipment within its rated capacity.
- 5. **STUDY** this entire manual and become properly trained with this equipment before attempting to operate.
- 6. **RESPECT** yourself, others, and this equipment. Use safe working habits and common sense when operating this equipment.

!!WARNING!!

FAILURE TO FOLLOW THE ITEMS LISTED ABOVE MAY RESULT IN DAMAGE TO EQUIPMENT AND \ OR TO PERSONS.

OPERATIONAL PROCEDURE

RECOMMENDED LOADING PROCEDURES

Step #1: Align the truck and trailer with the with the center of the container, back

up the truck and trailer squarely as possible to the container. Allow

approximately 3–4 ft. between the container and rear of trailer.

See Figure A.

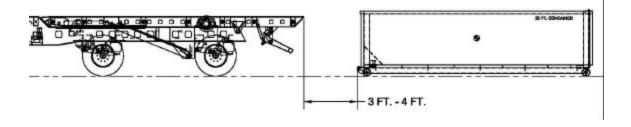


Figure A

Step #2: Put the transmission in neutral and engage the P.T.O. Set the brakes

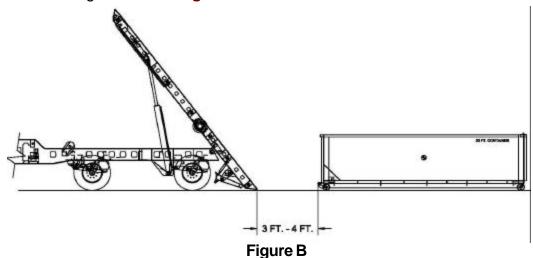
on the trailer and release the brakes on the truck. Go to the hydraulic

control station on the trailer.

Step #3: Raise the hoist on the trailer until the tail touches the ground.

Note: Do not allow the hoist to lift the rear of the trailer off of the

ground. See Figure B.



Step #4: Connect the main cable end to the container hook.

!! DANGER !!

Check to be sure the cable connection is securely attached and in good working condition.

Step #5: Release the trailer brakes. Pull the container onto the hoist allowing the truck and trailer to roll under the container.

!! CAUTION !!

Be absolutely sure the container long sills are lined up on the hoist properly.

Step #6: Continue pullling the container onto the hoist. After the container front nose rollers are ahead of the hoist rear hinge point, lower the hoist enough to keep the container long sills and hoist rails in line and parallel with each other.

See Figure C.

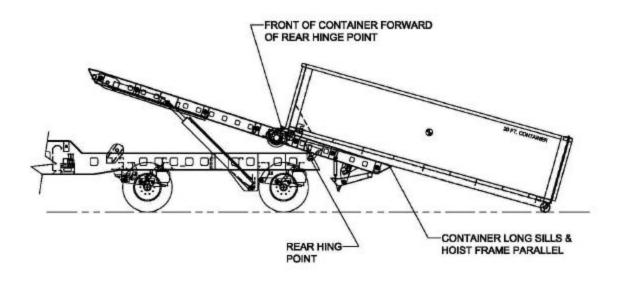


Figure C

Step #7: After the Center of Gravity (C.G.) of the container is past the rear hinge point of the hoist, lower the hoist completely.

!! CAUTION !!

Do not attempt to power the hoist down before the C.G. of the container is forward of the rear hinge point of the hoist. Failing to do so can cause excessive stress and \or damage to the equipment.

Step #8: Pull the container completely forward to the front of the hoist frame.

Disconnect the main cable from the container. Connect the transfer cable to the front of the container. Transfer the container to the front of the trailer, or to the appropriate auxiliary stop location. Make sure container is pulled securely into front stops. Secure container to trailer

using the side strap winches.

Step #9: Place the hoist auxillary stops in the appropriate stop position on the

front of the hoist frame. Repeat Steps 1 through 7 for loading the

second container.

Step #10: Pull container completely forward to the auxiliary stops in the front of

the hoist frame. Make sure container is pulled securely into auxiliary

stops. Secure container to trailer using the side strap winches.

!! CAUTION !!

THE CONTAINER AND HOIST MUST BE EQUIPPED WITH THE PROPER FRONT STOPS AND SECUREMENT DEVICES. THE CONTAINER SPECIFICATIONS MUST MATCH THE HOIST SPECIFICATIONS. (EX: ROLLER SIZE & LOCATION, PROPER STYLE HOOK-UP, SPACING BETWEEN LONG SILLS, ETC...) THE CONTAINER AND HOIST MUST BE IN GOOD WORKING ORDER. NON-COMPLIANCE COULD RESULT IN DAMAGE TO EQUIPMENT AND \ OR INJURY TO PERSONS AND IS THE OPERATOR \ OWNER'S RESPONSIBILITY.

OPERATIONAL PROCEDURE

RECOMMENDED UNLOADING PROCEDURES

Step #1: Release all side strap winch hold-downs from the rear most container.

Ensure that the main cable is attached to front of container. Release the trailer brakes and slowly raise tilt frame. As the tilt frame is being raised, slowly "reel-out" the main winch allowing the container to roll-off of the tilt frame onto the ground. Always keep tension between the main cable and container. Lower tilt frame completely once the

container is removed.

Step #2: Once the rear most container is unloaded, "reel-in" the cable on the

main winch allowing enough length of cable to reach the front of the tilt

frame. Attach end of cable to hook inside of chassis frame.

Step #3: Release all side strap winch hold-downs from the front container.

Ensure the front transfer cable is attached to the front of container. With the transfer winch control, transfer the front container rearward

onto the tilt frame.

Step #4: Once the forward most container is relocated onto the tilt frame,

disconnect the transfer cable from the container and attach the main

cable to the front of the container.

Step#5: Slowly raise the tilt frame, as the tilt frame is being raised, slowly "reel-

out" the main winch allowing the container to roll-off the tilt frame onto the ground. Always keep tension between the main cable and container. Lower the tilt frame completely once the container is

removed.

GENERAL SERVICE & MAINTENANCE

- 1. Daily check should be made of the cable, cable ends, lights, and an inspection of bolts, pins, and brackets to insure their safe and proper working condition. (Make repairs, if necessary, before using.)
- 2. Grease: All grease fittings should be properly greased every forty (40) hours of service as a minimum, or once a week for average usage. NOTE: With severe or heavy usage, greasing may be required in less than forty (40) hours of service.
- 3. Hydraulic Oil: Use any of the following hydraulic oils

Shell-Turbo 46, Tellus 46

Citgo-Pacemaker 46, Tellus AW46

Exxon-Teresstic 46, Nuto 46

Chevron, AW46

Texaco-Rando 46

Unical - Duro 46

Hydraulic oil should be checked daily and added if needed. Oil that is dirty or smells burned should be replaced. If in cold weather, before using a thinning agent, check with the oil manufacturer.

4. Cable: The cable should be thoroughly inspected every day for breakage, unraveling, or flat spots. If any of these signs exist the cable should be replaced immediately.

!! NEVER !!

Operate the roll-off trailer with a damaged cable. Cable ends, cable clamps, and cable pins should also be inspected for wear or damage. Replace any worn or damaged part before operation.

- 5. Hydraulic Oil Return Line Filter: The oil filter should be replaced after thirty 30 days of service and regularly thereafter on a routine maintenance program.
- 6. Mechanical: All nuts, bolts, shafts, cotter keys, etc. must be checked and properly re-tightened after one (1) week of service and once a month thereafter.
- Axle Wheel Ends: Check oil in axle wheel ends and fill to the full line. DO NOT OVERFILL.
- 8. Suspension: Daily visual inspection is recommended for all suspension components. After the suspension has been in operation for 1,000 miles, all nuts and bolts should be checked and tightened according to the manufacturer's recommendations (supplied with trailer inside of toolbox). Dragon Products, Ltd. recommends a regular periodic inspection of the suspension, such as every 6 months or 20,000 miles of service.

CABLE REPLACEMENT PROCEDURE

1. 40,000 lb. Hydraulic Planetary Gear Main Winch

Tulsa Winch Model: 3541RLB

Cable Size: 7/8" Dia. EXIWRC 6 x 36

Step #1: Unwind the cable by rolling it out along the ground to prevent

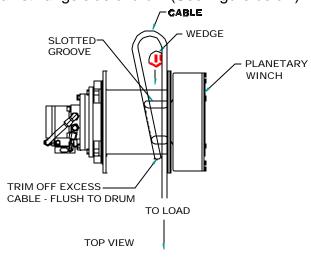
kinking. Securely wrap the cable end, opposite hook, with tape

to prevent fraying.

Step #2: Insert the cable end, opposite hook end, into the slotted groove

on drum (NOTE: insert through the load side of winch). Loop loose end of cable back through slotted groove. Insert the cable wedge inside of cable loop, with appropriate labeled side toward load side of cable. NOTE: Load side of cable should be

against flange side of drum (See Figure below).



WEDGE INSTALLATION

Pull on cable to securely "cinch" cable and wedge into slotted groove. Trim off excess cable sticking through drum.

Note: Make sure wedge is securely positioned inside of the

slot.

Step #3: Carefully run the winch in the "reel-in" direction, keeping tension

on the end of the cable, spooling all the cable onto to cable

drum. Take care to form neatly wrapped layers.

Step #4: A winch, like and other machinery, must be "broken-in" if it is to

perform properly. DO NOT overspeed the winch during initial cable installation. Run the winch at no more than one half rated

load and speed for the first thirty minutes.

CABLE REPLACEMENT PROCEDURE

2. Reeving Style - Hydraulic Cylinder and Sheave Arrangement Cable Size: 7/8" Dia. EXIWRC 6 x 36 – 100 ft. (P\N: 425-0128)

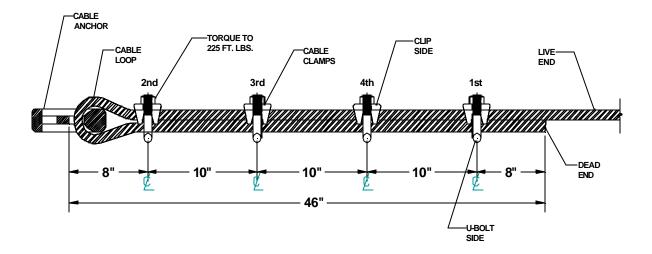
Step #1: Thread cable through sheaves and guides.

Step #2: Loop cable through cable anchor.

Step #3: Install cable clamps according to the diagram below

Step #4: Torque all cable anchor bolts evenly to 225 ft. lb.

Cut off excess cable.



TRANSFER CABLE REPLACEMENT

PROCEDURE

3. Continuous Cable -

Front Cable Size: 5/8" Dia. EXIWRC $6 \times 36 - 54$ ft. (P\N:) Rear Cable Size: 5/8" Dia. EXIWRC $6 \times 36 - 56$ ft. (P\N:)

Step #1: Install front cable (56 ft. end) through front pulley of trailer. Run

end of cable through front tensioners as shown in Figure 1. Note: Adjust tensioner sheave to the center of the adjustment

slot.

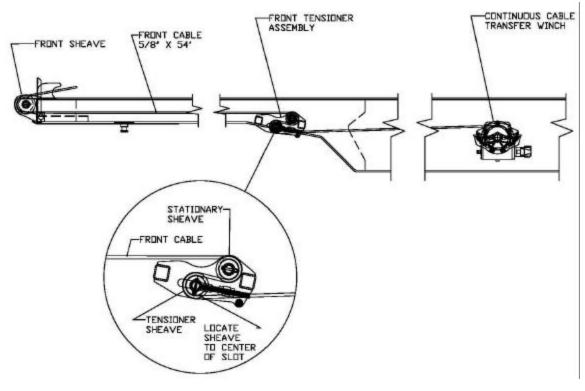


Figure 1

Step #2: Install front cable into passengers side of transfer winch. Clamp

anchor block on transfer winch to end of cable.

Step #3: With hydraulic system, run transfer winch to wrap cable around drum. Stop winch when there is only four open grooves on drivers side of transfer winch. See Figure 2.

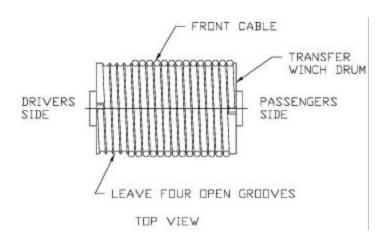
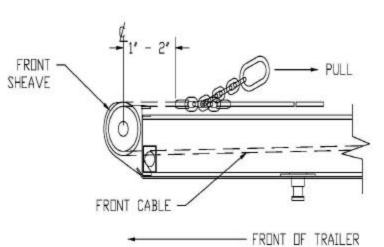


Figure 2

Step #4: Pull the cable assembly toward the rear of the trailer, by holding the master link, measure the distance between the sheave and the cable thimble. This dimension should be between 1 to 2 inches. If the dimension is greater than 2 inches the cable will need to be uninstalled and shortened.

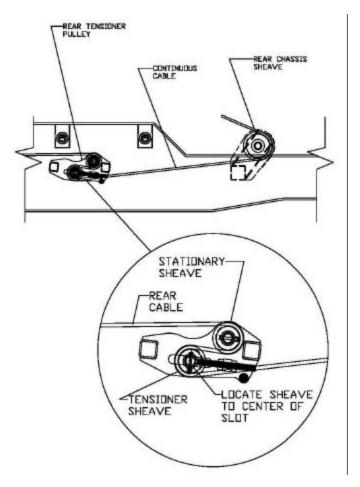


Important: Not checking this dimension may cause the container not to engage into the front stops securely, or may allow the cable thimble to drive into the front sheave causing damage. See Figure 3.

Figure 3

Step #5: Install the rear cable through rear chassis sheave. Run end of cable through rear tensioner assembly as shown in Figure 4. Note: Adjust

tensioner sheave to the center of adjustment slot.



Step #6: Hand wrap the rear cable around last four open grooves on drum, starting against the front cable side.

Step #7: Install end of cable through cable anchor on side of drum. Note: It will be necessary to trim any excess cable off. Leave cable end as long as possible after anchor point.

Step #8: Adjust both the front and rear tensioner sheaves to take slack out of transfer cables.

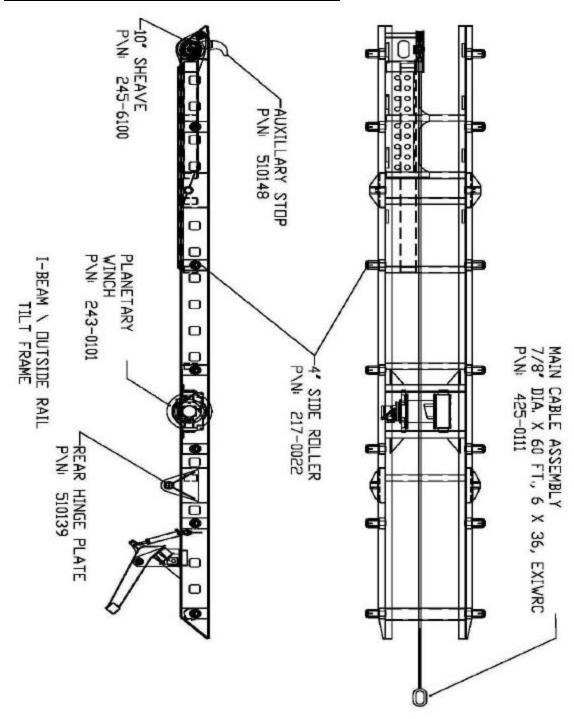
Step #9: Test the transfer cable travel with hydraulic winch.

Step #10: Test the transfer cable under loaded condition. Note: the cables will stretch during this procedure.

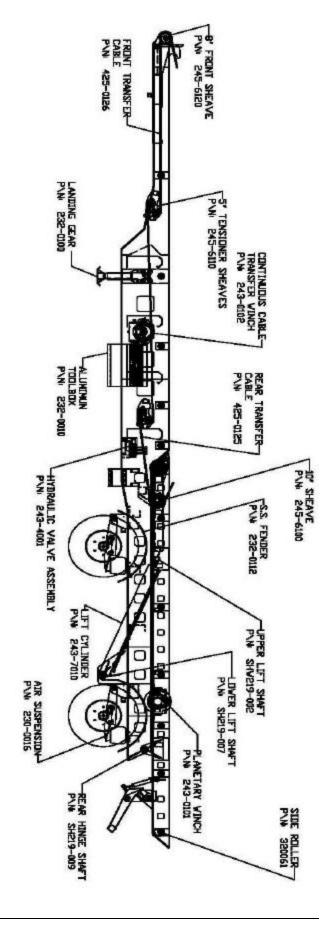
Step #11: Readjust tensioner sheaves as needed to reduce slack in cable. Cable should be snug. Do not overtighten. Cable should have just enough slack to allow master link connection to container.

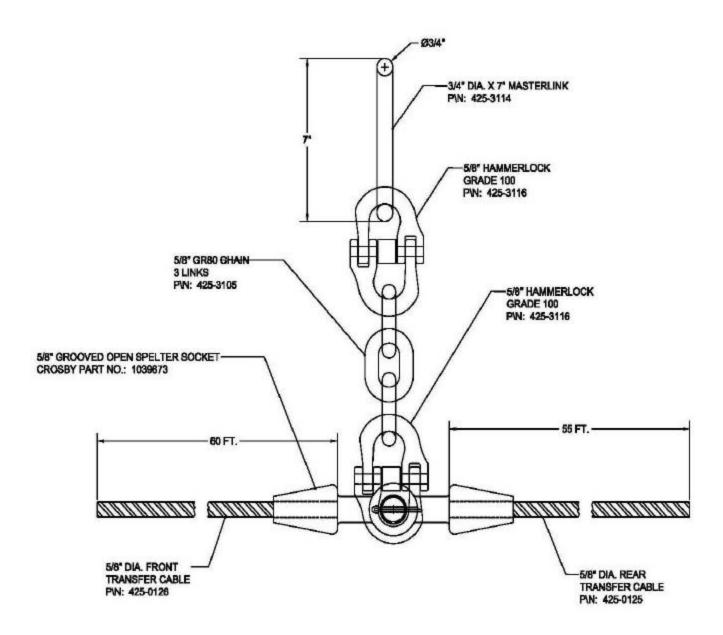
!! IMPORTANT!!

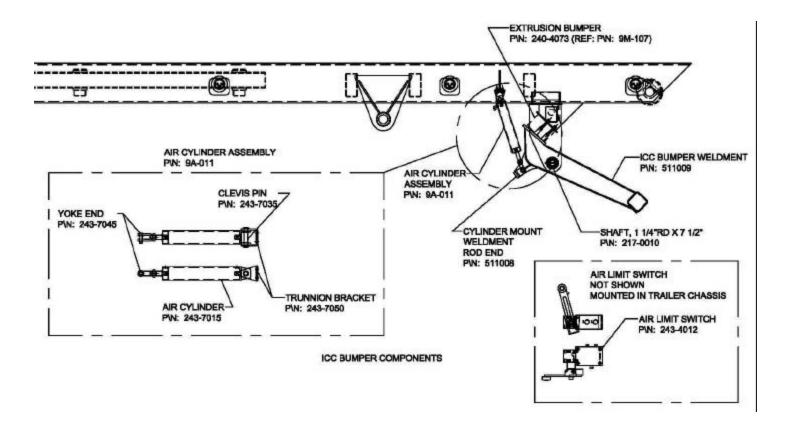
THE ALLOY LINK END ON THE TRANSFER CABLE MUST TRAVEL FROM THE
REAR CHASSIS SHEAVE TO THE FRONT SHEAVE WITHOUT THE CABLE
SLEEVES DRIVING INTO EITHER THE FRONT OR REAR TRANSFER
SHEAVES.

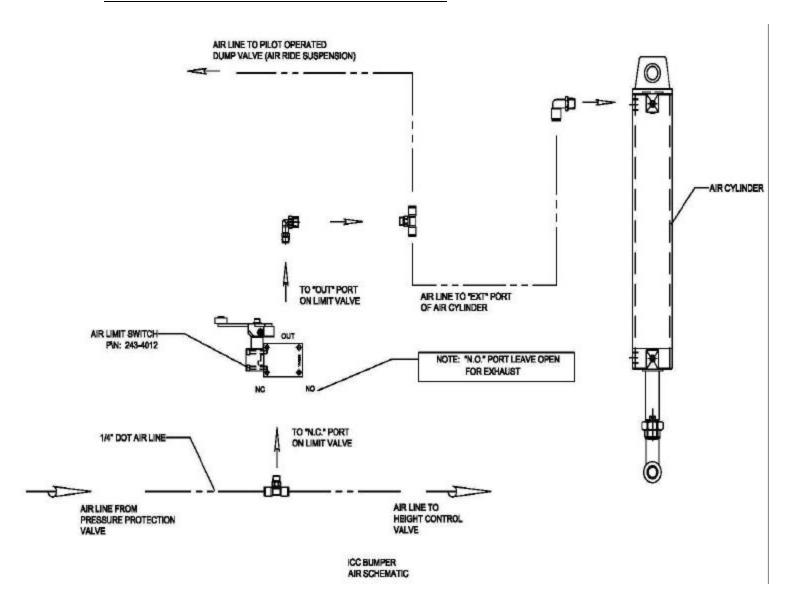


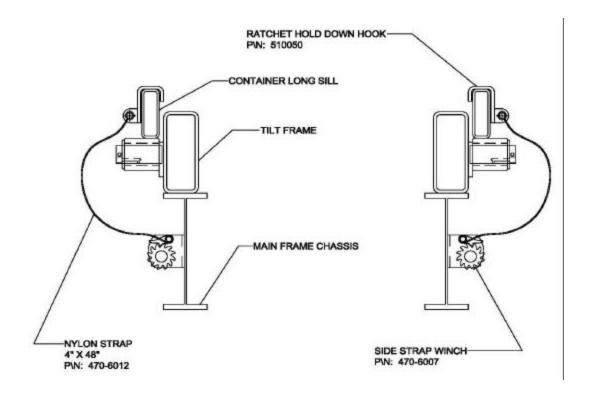
PARTS LIST











Warranty Information

TRAILER PRODUCTS LIMITED WARRANTY

Effective May 12, 2003

Dragon Products, Ltd. warrants only products of its manufacture against operational failure caused by defective materials or workmanship which occur during proper and normal use. Dragon Products, Ltd.. reserves the right to determine what is proper and normal use.

Warranties shall not apply to normal wear and tear, maintenance, service, adjustments, any equipment which has been altered or repaired inany way, or any items subject to misuse, negligence or accident.

Dragon Products, Ltd. makes no warranty on any of its equipment used in any way except as it was designed, intended, and sold to perform. These may be restricted and are subject to individual state guidelines.

Structural I-Beam Main Frame Design

The duration of this warranty is as follows:

- 1. Trailer Main Frame 1 year from the date of purchase from Dragon Products, Ltd.
- All products purchased by Dragon Products, Ltd. from an outside vendor shall be covered by the warranty of that respective vendor only. Dragon Products, Ltd. does not participate in or obligate itself to any such warranty.

Structural Tubing Tilt Frame Design

The duration of this warranty is as follows:

- 1. Tilt Frame 1 year from the date of purchase from Dragon Products, Ltd.
- All products purchased by Dragon Products, Ltd. from an outside vendor shall be covered by the warranty of that respective vendor only. Dragon Products, Ltd. does not participate in or obligate itself to any such warranty.

All products purchased by Dragon Products, Ltd. from an outside vendor shall be covered by the warranty of that respective vendor only. Dragon Products, Ltd. does not participate in or obligate itself to any such warranty.

Dragon Products, Ltd.uses high strength materials in the design of structural load bearing members of our trailer products. These materials require the appropriate welding techniques. Any work performed or required on these structural load bearing components without he consent or approval of Dragon Products, Ltd. authorized personnel shall null and void all appropriate warranties.

Dragon Products, Ltd.. shall not, under any circumstances, be liable for labor for removal and installation expenses, loss of time, manufacturing costs, materials, loss of profits, incidental, special or consequential damages, direct or indirect.

A return authorization number must be obtained from authorized Dragon Products, Ltd.. personnel prior to returning any products for warranty consideration. All claims must be accompanied by a complete written explanation of claimed defects and the circumstances of operational failure. Products returned for warranty consideration shall be shipped to Dragon Products, Ltd., freight prepaid, with the return authorization attached. In the event a product is repaired under warranty, that product shall carry the remainder of the original warranty period. In the case of emergencies, an authorization number must be obtained the next business day.

This limited warranty is expressly in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on the part of Dragon Products, Ltd. and it neither assures nor authorizes any other person to assure to it any other liability or connection with the sale herein contemplated.

What is *not* covered by this warranty:

Dragon Products, Ltd. DOES NOT warrant:

- (a) Any product, components or parts not manufactured by Dragon Products, Ltd.
- (b) Damage caused by use of the trailer for purposes other than those for which it was designed.
- (c) Damage caused by accident or the negligence of the purchaser or any third party or by disasters such as fire, flood, wind and lighting.
- (d) Damage caused by the purchaser's failure to provide normal maintenance as customarily accepted in the industry or as set forth in maintenance guidelines.
- (e) Tires, bearings, bushings, and parts which are a part of normal maintenance replacement.
- (f) Damage caused by unauthorized or improper installation of attachments, repairs, modifications or alterations.
- (g) Damages caused by replacement of original parts or components with unauthorized substitutes.
- (h) Damage during shipment.
- (i) Any other abuses or misuse by the purchaser.