

# The EZ-Tank Carrier

(Model EZTC-206)

## Operation, Maintenance & Safety Procedures



**Manufactured in the U.S.A.**

**Renaldo Sales & Service, Inc.**

1770 Mile Strip Rd. • North Collins, NY 14111 • USA

Phone: (800) 424-5564 • (716) 337-3760 • Fax: (716) 337-2756

[www.renaldo.org](http://www.renaldo.org)

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# Limited Warranty

Effective January 1, 2006

**\*\*This warranty supersedes all previous RENALDO warranties and is exclusive with no other guarantees or warranties expressed or implied.**

LIMITED WARRANTY - Subject to the terms and conditions hereof, RENALDO SALES & SERVICE, INC., NORTH COLLINS, NEW YORK, warrants to the purchaser that all new and unused equipment furnished by Renaldo is free from defect in workmanship and material as of the time and place of delivery by Renaldo or it's dealer for a period of one (1) year. NO WARRANTY is made by Renaldo with respect to cam followers, hydraulic pumps, engines, transmission, trade accessories or other items manufactured by others. Such blowers, hydraulic pumps, engines, transmissions, trade accessories and other items are sold subject to the warranties of their respective manufacturers, if any. Renaldo's warranty does not apply to components having normal useful life of less than one (1) year, such as propane stove burners, propane torch, hoses, chain sprockets, belts, blades, and straps where failure does not result from defect in workmanship or material.

In the case of Renaldo's breach of warranty or any other duty with respect to the quality of any good, the exclusive remedies therefore shall be, at Renaldo's option; (1) repair or (2) replacement or, where authorized in writing by Renaldo in appropriate cases, (3) the reasonable cost of repair or replacement at an authorized Renaldo representative or, (4) payment of or credit for the purchase price (less reasonable depreciation based upon actual use) upon return of the products at customer's risk and expense. Renaldo's option of repair or replacement will be F.O.B. factory at North Collins, New York, or F.O.B. at a Renaldo authorized service facility, therefore, no compensation for transportation cost of any kind will be allowed. Upon receipt of notice or apparent defect or failure, Renaldo shall instruct the claimant on the warranty claim procedures to be followed.

Any expressed warranty not provided herein and any implied warranty, guarantee or representation as to performance, and remedy for breach of contract which, but for this provision, might arise by implication, operation of law, custom of trade or course of dealing, including any implied warranty of merchantability or of fitness for particular purpose with respect to any and all equipment furnished by Renaldo is excluded and disclaimed by Renaldo.

Except as expressly provided by Renaldo in writing, Renaldo products intended for ultimate purchase by commercial, industrial and agricultural users and for operation by persons trained and experienced in the use and maintenance of equipment manufactured by Renaldo's and not for consumers or consumer use. Renaldo's warranties do not extend to, and no reseller is authorized to extend Renaldo's warranties to any other consumer.

## Forward

The EZ-Tank Carrier (Model EZTC260) is designed to safely move up to a 1000-gallon, horizontal style, A.S.M.E. (American Society of Mechanical Engineers) bulk propane storage tank with one man. This manual provides instructions for the proper use and care of this unit. It also contains important safety information. Please, read it carefully before operating the tank carrier for the first time.

The descriptions and specification in this manual are subject to change. Renaldo Sales & Service, Inc. reserves the right to change the design of our equipment at any time as part of the normal product improvement process. Upgrades and enhancements may have taking place after this manual was printed. For the latest technical information and specifications, please feel free to contact us at 800-424-5564. Or, you may also find useful parts manuals and support information for his unit on our web site at **[www.renaldo.org](http://www.renaldo.org)**.



## Standard Equipment

- 1 EZTC-206 power unit
- 2 EZTC-206 wheel jacks
- 1 15,000 lbs., 3" nylon strap (power unit strap)
- 2 10,000 lbs., 2" nylon straps (wheel jack straps)
- 2 Lifting Chains
- 1 HONDA® GXV340 11 HP OHV, vertical-shaft engine with easy-maintenance features, oil alert and electronic ignition, electric start, 12 volt small engine battery. Operators Manual
- 1 Hydro-Gear® GT 310-3000 Series Hydrostatic Transaxle
- 1 EZTC-206 Operators Manual

## General Safety

This section outlines basic safety measures, which should be applied to the use of the EZ-Tank Carrier. The EZTC-206 is a powered A.S.M.E. cylinder carrier that should be used and maintained with respect and caution. Misuse or carelessness can result in serious injury or damage to equipment and property.





This safety alert sign is used in this manual and on the carrier. When you see this sign, carefully read what it says. This alert sign may be used with the words: Warning, Caution, Notice and Important.

**WARNING** indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

**CAUTION** indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

**NOTICE** can keep you from doing something, which might damage the machine or someone's property. It may also be used to alert against unsafe practices.

**IMPORTANT** can help you do a better job or make your job easier in some way.

## Starting the Tank Carrier

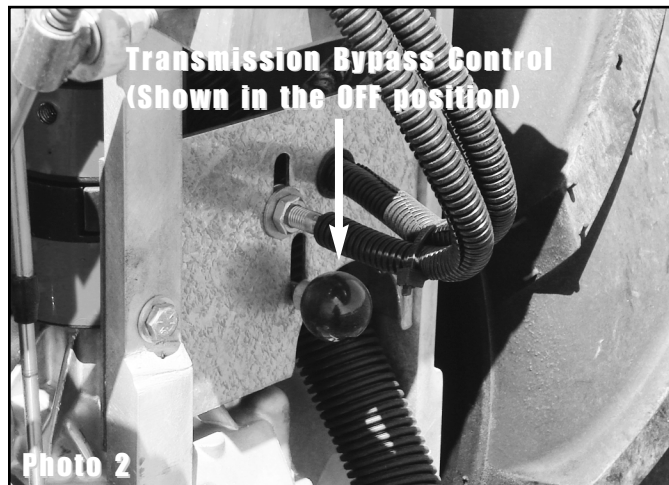


**NOTICE:** Keep everyone at least 6 ft. away from the machine when starting.

- A. Check engine for proper fuel and oil levels.
- B. Set the Hydrostatic Transmission Handle to the neutral (center) position.
- C. **PULL** the Transmission Bypass Control to the **ON** position. This control prevents the hydraulic fluid from flowing through the transmission, making startup much easier as the engine isn't trying to push fluid through the system.



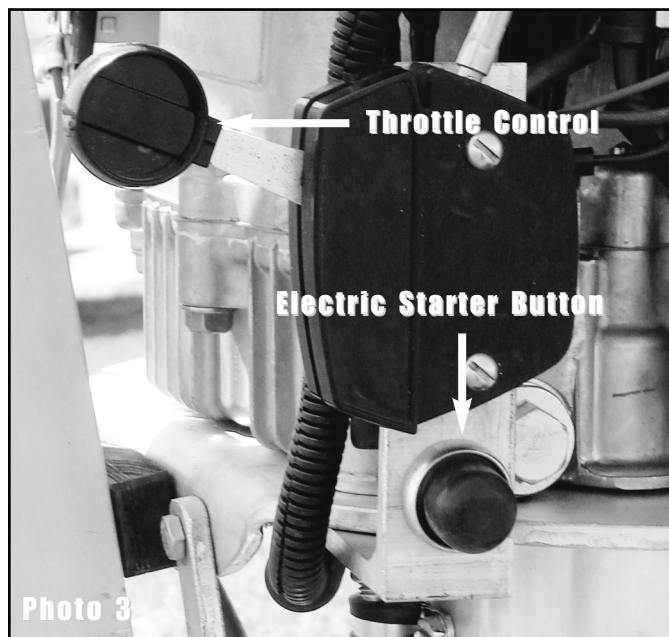
**WARNING: THE TANK CARRIER WILL START WITH THE TRANSMISSION ENGAGED. ALWAYS ACTIVATE THE TRANSMISSION BYPASS CONTROL, AND MOVE THE TRANSMISSION LEVER TO THE NEUTRAL POSITION BEFORE STARTING.**



- D. Set Throttle Control to the choke position (bottom).
- E. Place one hand on the steering handle and lower it to a position that will deactivate the kill switch. Slide the Kill Switch Stop to the ON position (Photo 4 & 5).

**PUSH** the Electric Starter Button until the engine begins to start. Disengage the choke and set the throttle control to its highest RPM's. Always run the tank carrier at full throttle to optimize the performance of the hydraulic system.

When engine starts, do not release the handle, as this will activate the Kill Switch. To allow the engine time to warm up, while remaining stationary, utilize the Kill Switch Stop. Move the stop to the horizontal position and rest the T-Handle against it, holding it in position.



- F. To shut down the engine, move the throttle control lever to the off position, or release the handle.



**IMPORTANT:** Please see separate HONDA® engine manual (supplied with this information) for more detail on the operation, maintenance and warranty.

## HONDA Engine Parts

In most cases, your LOCAL small engine repair center can assist you in locating the Genuine HONDA® replacement parts you require. That would be the quickest way to repair your problem. Renaldo Sales Stocks a very limited supply of HONDA® engine parts. If a local dealer or repair center is not available we would more than happy to order the parts in and have them delivered to your location. In many cases we can drop-ship to your location directly from our distributor.

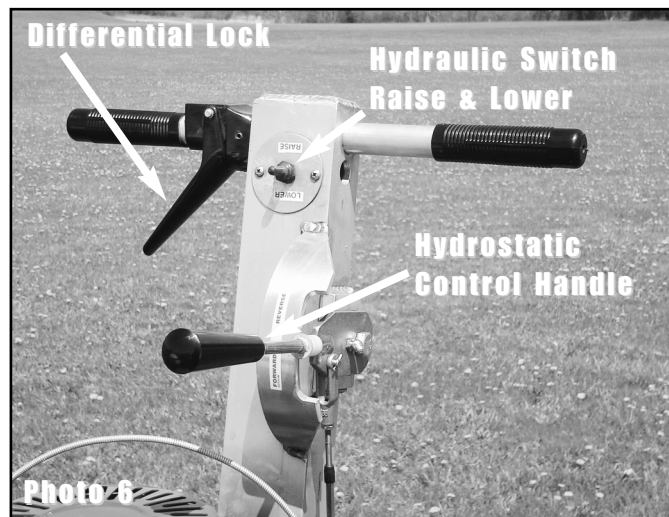
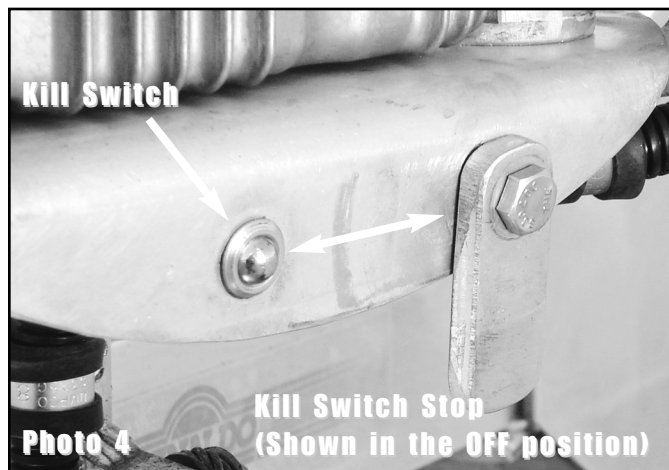
## Cold Weather Conditions

If the EZ-Tank Carrier is being started cold, it is advisable to allow the engine oil and transmission fluid ample time to warm up before moving the unit.

## Moving The EZ-Tank Carrier

(Without a Tank Attached)

- A. Raise the Main Power Unit Fork Assembly using the switch located on the T-Handle. Manually, raise the two Wheel Jack Assemblies using the two hand cranks. Evenly, raise the entire unit to an adequate height to allow ground clearance.
- B. Adjust the throttle to it's maximum RPM's and slowly engage the transmission.
- C. Moving the hydrostatic control handle forward will make the unit move forward. Moving the same control handle backwards will make the unit move in a reverse direction. The farther the handle is moved (in either direction) the faster the unit will travel.
- D. Returning the handle to the neutral position slows the unit, and once the detent is reached the tank carrier will come to a complete stop. In the detent position the drive wheel is locked. The same condition occurs when the engine is not running, regardless of the position of the handle.





**NOTICE:** If the tank carrier does not come to a complete stop with the hydrostatic lever in the detent position, adjust the control cable accordingly.

## Kill Switch

Models manufactured after March of 1995 are equipped with a Kill Switch. It is located near the base of the steering handle, mounted on the motor mount assembly (Photo 4). The handle is equipped with a spring, which automatically returns it to the upright position when released. If the operator should lose control of the unit, the T-Handle returns upright and activates the kill switch, shutting the motor off, and applying the built in brake.



**CAUTION:** Do not disable this switch. It is there for your protection. This safety feature prevents the motor from starting, until the T-Handle is held down to deactivate it. You can also use the Kill Switch Stop to start the motor while the unit remains stationary.

## Connecting to a Tank

### Fastening Power Unit

- A. Under power, position the forks under a tank so that the dome of the tank makes contact with the Rubber Bumper located on the back section of the Fork Assembly (Photo 7). The rubber pads, located on the forks should be in position under the tank. Check to make sure the forks are not in contact with the tank legs.

The Rubber Pads located on the forks of the main power unit will rotate to accommodate different size tanks. Position the pads inward to accommodate smaller tanks, such as a 250 and 325-gallon, and outward to accommodate a 500, or a 1000-gallon tank (Photo 8).



**IMPORTANT:** The tank should never come in contact with metal. Occasionally, check all pads and nylon straps for wear.

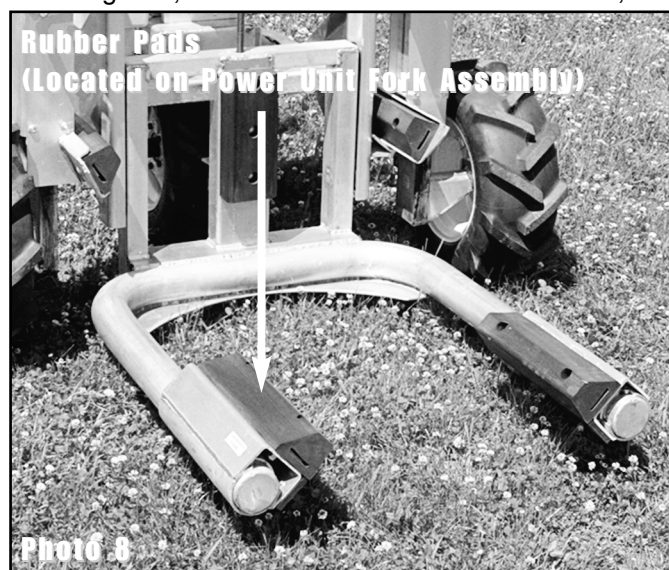
- B. Slide the large 3", 15,000 lbs. nylon strap under the tank and the fork assembly. Move to the other side of the tank carrier, and bring the strap up from ground level, and around the tank AND forks (Photo 9). When attaching the power unit to tank, the straps should be positioned near the end of the forks, as indicated by the decal on the fork assembly.

**"TANK STRAPS MUST BE PLACED HERE"**

Do not allow the straps to twist. The Kinedyne logo appears on the face of the strap. Check to make sure it is visible as you run the strap through the spool on the ratchet. Tighten strap securely using ratchet (Photo 10).

### Attaching Wheel Jacks

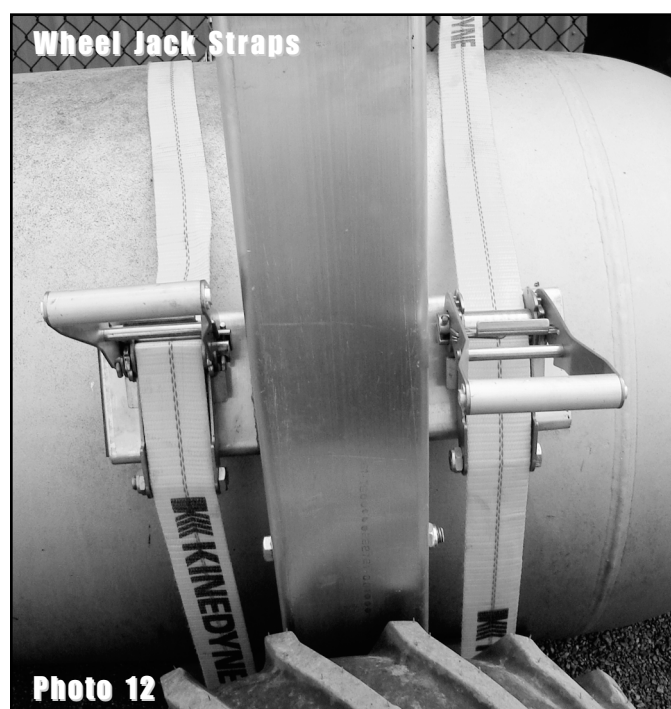
- A. While still attached to the power unit, raise the wheel jacks using the jack handles until each wheel is slightly off the ground.





**NOTICE:** Do not attempt to release the wheel jacks from the power unit, until it has been secured to a tank.

- B. Disconnect the latch at the top of the wheel jack from the power unit and remove it by slightly lifting it off the rest.
- C. Position each of the two wheel jacks on the opposite end of the tank (near the tank legs) so that both rubber pads are resting evenly on the tank and the wheel has a slight "toe in" angle to the tank (Photo 11). You may have to adjust the wheel jack up, or down to position the pads correctly.
- D. Attach the hook end of the 2" strap to the bar on one side of the wheel jack ratchet.
- E. Run the strap under the tank, taking care not to allow the strap to twist. Pulling the strap up from ground level, position it around the back of the rubber pad, and through the slotted spool on the ratchet. Continue to bring the strap over the top of the tank and through the slotted spool of the ratchet on the other side. Tighten slightly, just enough to stabilize the wheel jack against the tank (Photo 12).
- F. Move to the other side of the tank and repeat the process. It is important that the hook end of each 2" strap be secured on opposite sides of the tank. One hook on one side, and one hook on the other side.
- G. After each strap has been attached, tighten both straps securely.
- L. To raise the tank, turn each hand crank until the desired tank height is reached. Adjust the height equally. Using the hydraulic switch located on the T-Handle, raise the forks on the main power unit until the tank is level. **The tank may be lifted to a maximum height of 19".**





**CAUTION:** The EZ-Tank Carrier has a maximum lift capacity of 2,300 lbs., or the equivalent of an empty 1,000-gallon A.S.M.E. tank.

## Moving/Spotting Tanks

Once attached to a tank, the EZTC-206 can be operated in either a forward or reverse direction by simply moving the Hydrostatic Transmission Handle in the forward, or reverse direction.

The EZTC-206 is equipped with a hand operated Differential Lock that when activated, locks both drive wheels for posi-traction (Photo 6). The differential lock enables both drive wheels to turn in unison, assisting the operator when traversing rough, or hilly terrain. The differential can be locked, and released on the fly by simply squeezing the hand operated control, located on the T-handle. It is important to understand that with the differential locked, the unit does not turn easily. Use this feature when moving straight ahead.

Before spotting a tank at your installation location, use hand tools to level the surface. Place concert blocks under the tank legs, and lower the tank until all four tank legs are resting on the blocks. Use a hand level to make sure the tank is resting level, prior to releasing the straps. If it is not level, simply raise the tank back up and make the necessary adjustments to the concrete blocks, and lower the tank back into position.



### Remove the Wheel Jack Straps First

Once the tank is in position, resting on the blocks, release one wheel jack strap at a time by opening the ratchet and unlocking the ratchet spool by pulling up on the cam lock, and moving the ratchet handle to the open position. The slotted spool should turn freely. Return each wheel jack, as they are removed, to the power unit. Fasten the wheel jacks to power unit using the fixed latch. Lower each wheel jack, using the hand crank, just enough to provide stability for the power unit.

### Remove the Power Unit Strap Last

Once the wheel jacks are in position, attached to the power unit, you can remove the 3" power unit strap. Open the handle, and pull the cam lock. Once the cam lock is released move the handle to the fully open position. The slotted spool should turn freely, allowing you to remove the strap from the ratchet. In order to back the tank carrier out after strap removal, it may be necessary to lower the fork assembly further for additional clearance.

### Strap and Ratchet Maintenance

The three nylon straps are very important to the operation of this unit. If straps become frayed replace them at your earliest opportunity. Use a spray silicon lubricant on all the ratchets to prevent them from freezing up. Make sure all the straps are accounted for, prior to leaving the job site.

## Transporting the EZTC-206 (With Tank Attached)

There are several options for transporting the EZTC-206 to and from the installation. Perhaps the best is the utilization of a utility trailer, which allows the tank carrier to be loaded and unloaded from ground level. One of the advantages of doing this is that you only have to attach, and detach an A.S.M.E. tank one time (Photo 14). Less handling means increased efficiency. However, the EZTC-206 is supplied with a Load/Unload Hook Point that will



allow you to crane the unit on and off a truck for transport to the job site (Photo 15). The hook point is located on the main power unit in the center of the triangular frame assembly.



**WARNING: DO NOT ATTEMPT TO LOAD AND UNLOAD THE TANK CARRIER, UTILIZING A CRANE, WITH A TANK ATTACHED TO THE UNIT.**

When transporting the EZTC-206 on a utility trailer, drive the unit on to the trailer, and then lower the tank so that all the tank legs are resting on the trailer bed. While still attached to the tank carrier, strap the tank to the trailer bed securely.

## Lifting Chains

Supplied with each tank carrier are two Lifting Chains which are used to lift one end of an A.S.M.E. tank off the ground. This eliminates the need for a separate tank jack if the tank legs have sunk into the ground, or have shifted off the blocks, or you are unable to place the forks of the main power unit under the tank for any reason.

To connect the lifting chains, place either of the wheel jacks on the end of the tank. Attach the hooks on the end of the lifting chains to the tank legs. One chain is supplied for each leg. Slide a link of the chain into the slotted plate at the base of the wheel jack, taking care that the plastic covering of the chain is making contact with the tank and all slack is removed. Once both lifting chains are secured, raise the wheel jack to lift one end of the tank off the ground to the desired height. Place additional blocks under the legs to maintain the desired height. Lower the wheel jack and disconnect both lifting chains. Place and secure the wheel jack back on the power unit before attempting to move under the adjusted tank.

## Maintenance

The EZTC-206 was designed with very low maintenance requirements in mind.

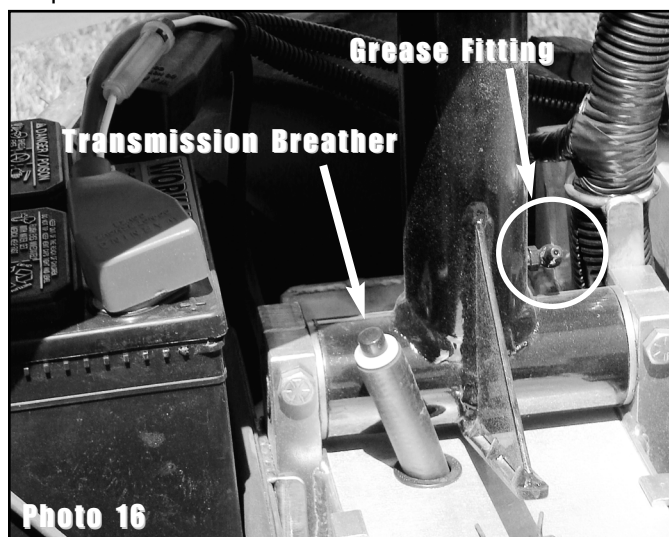
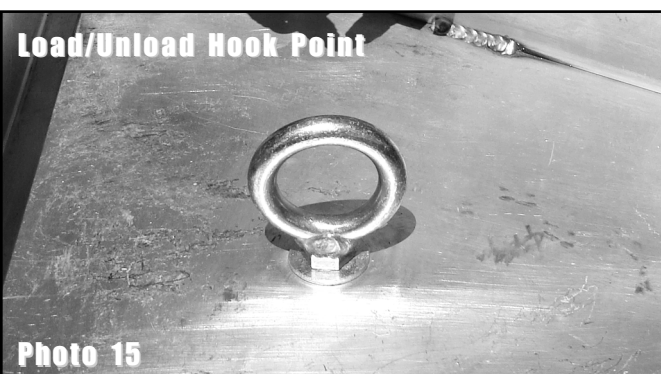
There is only one grease fitting on the entire unit located on the steering pivot (Photo 16). Apply grease after every 40 hours of operation.

Lightly apply grease to the ACME screw threads located on both wheel jacks. Do not over grease.

Prior to operating the EZTC-206 do a visual inspection of the aluminum frame to check for any stress cracks.

Inspect all the ratchets and straps for wear. Replace straps when they become frayed, or torn. Use a spray type silicon lubricant on the ratchets.

Check the engine oil prior to starting. Consult the HONDA engine owners manual that comes with this unit for more information on the Service and Maintenance requirements.



## Circuit Protection Systems

If the electric starter fails to turn the engine over, the EZTC-206 is equipped with an automatic circuit breaker that will trip if a short, or surge is present in the electrical system. If no problems with the electrical system are evident, it may be necessary to charge the 12 volt battery. Once the problem has been corrected the circuit should automatically reset.

The hydraulic valve solenoid system is equipped with a 10 amp fuse. Should you lose the up and down motion of the hydraulic cylinder on the main power unit, check and replace this fuse as necessary.

## Hydro-Gear 310-3000 Integrated Hydrostatic Transaxle

The 310-3000 Hydrostatic Transaxle is a self contained unit designed for the transfer and control of power. It provides an infinitely variable speed range between zero and maximum in both forward and reverse modes of operation. The transaxle is filled and tested at the factory and should not require fluid or filter changes, unless the fluid becomes contaminated.

This transaxle is factory filled and does not require regular oil changes. In the event of oil contamination or degradation and oil change may improve performance. Please contact Renaldo Sales & Service, Inc. at 800-424-5564 for instructions on how to remove and purge the transmission.

Certain situations may require additional fluid to be added or even replaced. A 20W-50 engine oil has been recommended for normal operating temperatures. .95 gal (116.5 oz.) of fluid is required for proper operation. The fluid fill port is located on top of the transmission. The fluid level port is located on the side of the transmission. Locate the Allen head (hex) fill and level ports. A 1/4" Allen wrench is required to open the ports.

The 310-3000 utilizes an in-line floating disc brake controlled by a "cam" style actuating arm.

A cam style, block lifting transmission bypass control is utilized in the 310-3000 to permit moving the EZTC-206 for short distances, at a maximum of 2 m.p.h., without starting the engine. Engaging the bypass will result in the loss of hydrostatic braking capacity. **The machine must be stationary, on a level surface, and in neutral when actuating the transmission bypass control.**

## Operating Hints

Always shut off engine when making adjustments, or when operator is releasing control of unit.

On irregular or rough terrain, raise wheel jacks and power unit to maximum height in order to avoid dragging legs, or "bottoming out" tank.

Always climb grades with the wheel jacks end of tank going uphill first. This puts more weight on the drive wheel for better traction.

Descend grades with power unit end going downhill first. Move the hydrostatic lever to SLOW REVERSE and back the tank and tank carrier down the grade.

For soft terrain, 2' x 8' sheets of plywood can be laid down to track the tank carrier across the soft ground.

Never use the steering T-Handle for pulling the tank carrier with a vehicle or winch. Make the attachment to the tank...ONLY IF NECESSARY!

The E-Z Tank Carrier is not designed to be towed or moved on a highway other than on a proper truck or trailer.

## NFPA 58

6-5.2.1 Except as provided in 6-5.2.1 (a) containers of 125 gal (0.5 m<sup>3</sup>) or more water capacity shall contain no more than 5 percent of their water capacity in liquid form during transportation. (a) container containing more LP-Gas than 5 percent of their water capacity may be transported subject to such limitations as may be specified by the authority having jurisdiction.

## Product Support

### Renaldo Sales & Service, Inc.

1770 Mile Strip Rd.  
North Collins, NY 14111  
(800) 424-5564  
(716) 337-3760  
Fax: 716-337-2756  
Email: james@renaldo.org  
www.renaldo.org

North Collins, NY is located approximately 20 miles South of Buffalo, NY

Please record the serial number and date of purchase of your EZ-Tank Carrier (Model EZTC-206) and engine in the space provided here. When possible, specify part number and machine serial number to expedite processing of your order.

Date of Purchase: \_\_\_\_\_

Serial Number : \_\_\_\_\_

Engine Serial Number: \_\_\_\_\_

Notify Renaldo's immediately of any malfunction or failure. This information should be recorded and placed on file by the owner at the time of purchase.

Return damaged parts to the manufacturer, at the address above, for inspection and Product Support Policy consideration. Order genuine Renaldo replacement or repair parts from the manufacturer. Use of another manufacturer's parts may void Product Warranty considerations.

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