



INSTRUCTION MANUAL

RTC120 Adapter for Horizontal 120-Gal. Tanks



Read and understand all of the instructions and safety information in this manual before attaching, operating or servicing this adapter. Failure to observe this precaution may result in injury or property damage.

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Description

The RTC120 adapter is designed for use with the RTC420 line of motorized and manual tank dollies. When attached to the dolly it allows the operator to transport a single 120-Gal. horizontal style propane storage tank.

The complete kit includes the RTC120 adaptor, 1 strap, 2 clevis pins, and the installation and operations manual.

Shipping Weight: 51 LB
Installation Time : 15 minutes

⚠ Safety Alert Symbol

Read and understand all of the instructions and safety information in this manual before attaching, operating or servicing this adapter. Failure to observe this precaution may result in injury or property damage.

This symbol ⚠ is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard

⚠ CAUTION

Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation of the RTC120 Adapter. Keep this manual available to all personnel. Replacement manuals are available at www.renaldo.org.



RTC120 Adapter On Tank Dolly

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation of the RTC120 Adapter. Keep this manual available to all personnel. Replacement manuals are available at www.renaldo.org.

Employees who work with tank dollies shall inspect the equipment before use to verify it is in proper working condition and shall be familiar with the equipment's proper operation.

Specifications

Model: RTC120

- **Weight:** 42 LB (19 kg)
- **Shipping Weight:** 51 LB (23 kg)
- **Carrying Capacity:** 900 LB (408 kg)
1, Full 120-Gal. ASME Tank
- **Construction:** Tubular steel
- **Straps:** (1) 2" X 10' Nylon, Sewn Loop One End, w/ Oversized Pad
- **Color:** Black Powder Coating
(no color options)
- **Assembly:** Crank handle to threaded rod assembly
- **Warranty:** One year on all structural components.

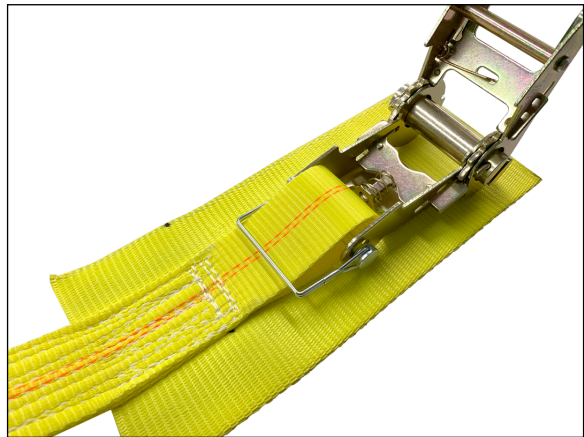


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discard the 1/2" bolt. Note that when re-attaching the ratchet to the dolly to move 400 LB (100-Gal) cylinders, use the provided hitch pin to secure the ratchet to the dolly.

To configure the ratchet and strap for use with the RTC120 adapter, also remove the 2" nylon tank strap that came with the dolly. A different strap is provided with this kit that includes a oversized pad. Keep the old strap on hand as a backup.

Attach the padded end of the new strap to the ratchet you removed from the tank dolly using the supplied hitch pin. The pad should extend under the ratchet to protect the painted surface of the tank from scratching. This new strap is dual purpose. Use it to secure a tank in both the vertical and horizontal position.



Dual Purpose Strap & Ratchet Assembly.

Installation

Step 1: Setting Up The Dual Purpose Strap and Ratchet

Using two 3/4" wrenches, remove the 1/2" bolt that secures the ratchet to the tank dolly. Remove the ratchet from the dolly. You may

Step 2: Installing The Adapter For First Time Use.

Please Note: Installation of the RTC120 Adapter on models manufactured prior to 1996 will require frame modifications.

With the handle bars locked together in the down position, place the adapter over the top and bottom cross braces. It may be necessary to adjust the top yoke of the adapter up or down



Top Yoke w/ Hitch Pin. Loosen hex head bolt to adjust accordingly.

to allow it to drop over the middle cross brace.

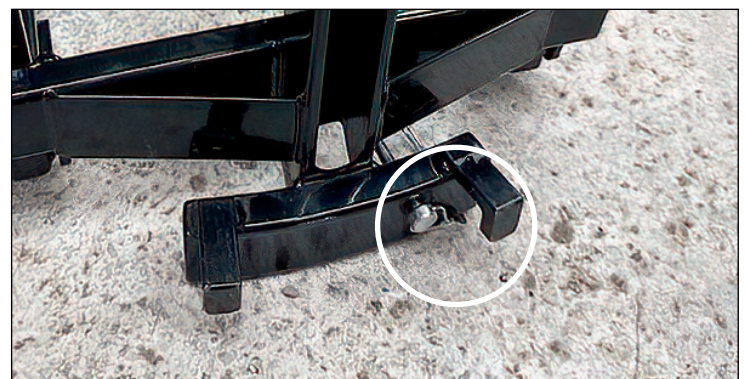
With the adapter resting on the tank dolly, drill a 5/16" hole through the bottom cross brace of your tank dolly. There is a pre-drilled hole in the adapter to use as a guide. These holes need to line up with each other.

Once drilled, secure the adapter to the bottom cross brace using the supplied clevis pin as shown below.

Optional Step 3: Since you just drilled a hole in the bottom cross brace, you should consider drilling a small 3/16" drain hole in the bottom of the cross brace to prevent water from collecting inside the tubing.



Position of Pre-Drilled Hole. Insert clevis pin through bottom cross brace and pre-drilled hole to secure to dolly.



Position of Pre-Drilled Hole. Note clevis pin inserted.

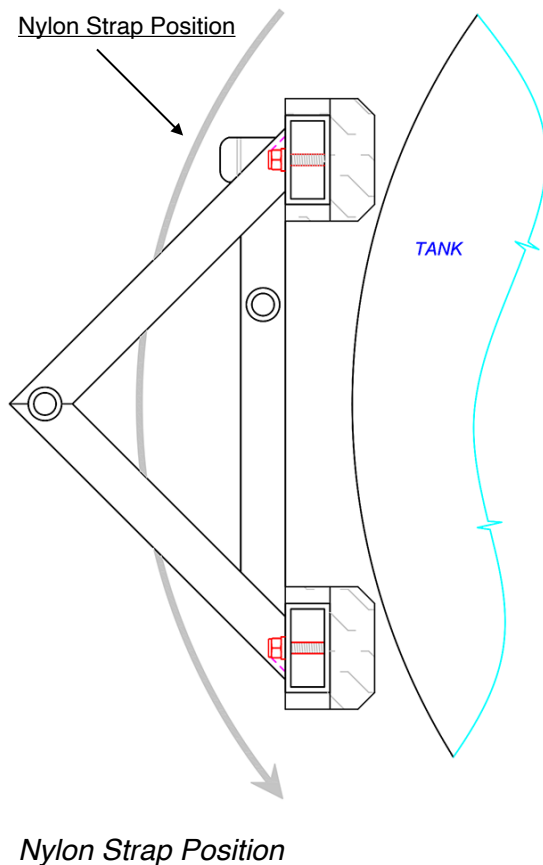
Using the Adapter

Attaching the Adapter to a Tank

Step 1: With the adapter mounted to the tank dolly and the handle bars locked in the down position, turn the crank handle of the RTC-120 adapter until the tank cradle is in it's lowest position.

Step 2: With the dolly in close proximity to the tank you wish to move, unlatch the top set of handle bars and raise to the vertical position.

Step 3: While the handle bars are in the vertical position, maneuver up to the 120-gallon tank until the rubber bumpers make contact with the tank.



Step 4: Secure the tank to the cradle using the new strap assembly. Notice the placement of the decals on the RTC-120 adapter for correct strap placement. The strap has to completely wrap around the tank AND upper and lower cradles of the adapter, to the right or left of the center pivot. See diagram below.

Once the strap has been oriented properly, secure the opposite end of the strap through the slot in the ratchet and tighten securely.

Transporting a Tank

Step 1: After tightening the ratchet securely, pull back on the top set of handle bars, lifting the tank off the ground, until the handle bars lock together.

Depending on the weight of the tank, it may be necessary to lift and secure the power unit to the top frame and pull back until the dolly wheel makes contact with the ground. The added weight of the motor and frame will assist the operator in tipping the tank back into the transport position.

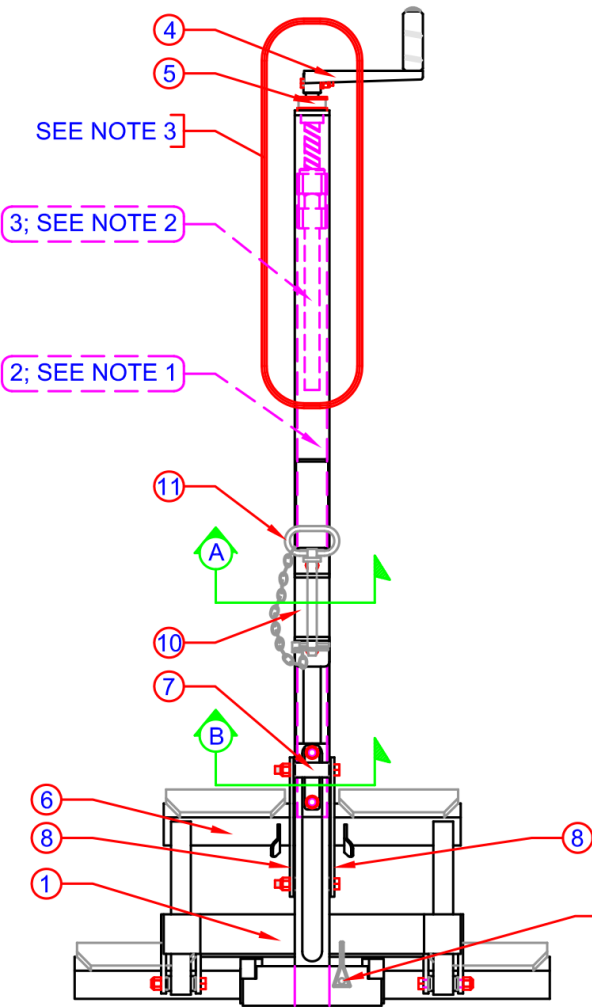
Once in the down position, hold down the entire unit with one hand and turn the crank handle on the adapter until the tank is tipped fully in the back position over the drive wheels.

To set the tank, reverse this procedure.

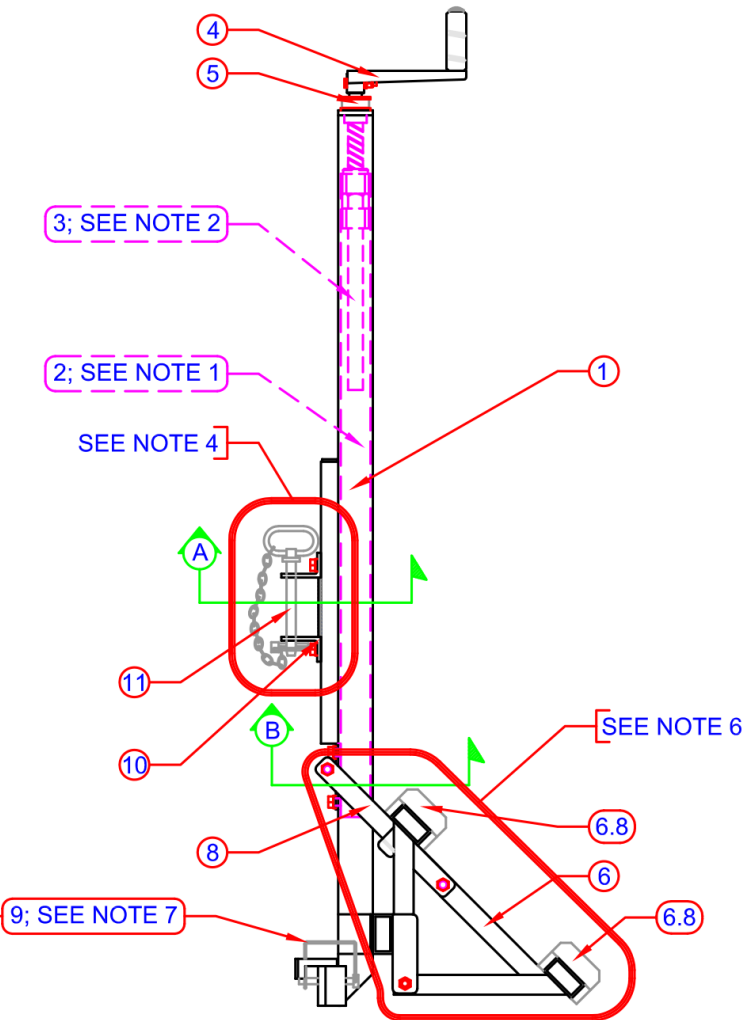
⚠ CAUTION

When carrying a tank, full or empty, always drive the unit forward when going up grade and in the reverse when going down a grade.

RTC120 Parts Diagram



BACK VIEW



RIGHT SIDE VIEW

Parts List

NO	QTY	Part Number	Description
1	1	120ADP-A-5AS	External Crank Tube Assembly
2	1	120ADP-A-3AS	Internal Crank Tube Assembly
3	1	120ADP-A-13	ACME Threaded Rod Assembly
4	1	120ADP-A-4AS	Crank Handle Assembly
5	1	MR606V	5/8" Thrust Bearing
6	1	120ADP-A-12	Pivot Bracket
6.8	4	AA-5 RTC	Cross Brace Tank Bumper
7	1	120ADP-A-11	Internal Crank Mount
8	2	120ADP-A-15	Third Point Linkage
9	1	SNPP0310275OZ	5/16" X 2-3/4" Lynch Pin
10	1	120ADP-A-50AS	Mount Clevis Assembly
11	1	HPLP05004750Y	1/2" X 4-3/4" Hitch Lynch Pin
	1	40Y1000S PAD	2" X 10' Strap w/ Sewn Loop One End & Pad For RTC120 Adapter (Not Shown)
	1	C-4 RTC	Modified 804 Ratchet w/ C-3 Pad For All RTC420 Tank Dollies (Not Shown)

NOTES

1. Internal crank tube assembly is inside the external crank tube assembly.
2. ACME threaded rod assembly is inside the external crank tube assembly.



⚠ CAUTION

Although not recommended, it is possible to transport an EMPTY 250-Gal. ASME tank, as pictured to the left.

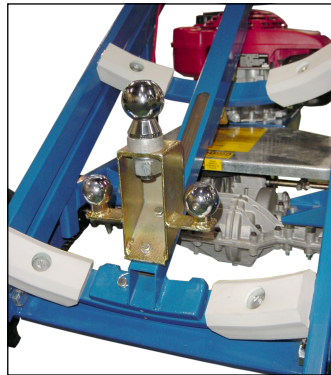
The maximum carrying capacity of the RTC420NG3 Motorized Tank Dolly and the RTC420M2 Manual Tank Dolly is 900 LB, the approximate weight of an empty 250-Gal. ASME tank.

Empty 250-Gallon ASME Tank being transported by the RTC420NG3 tank dolly, using the RTC120 Adapter.

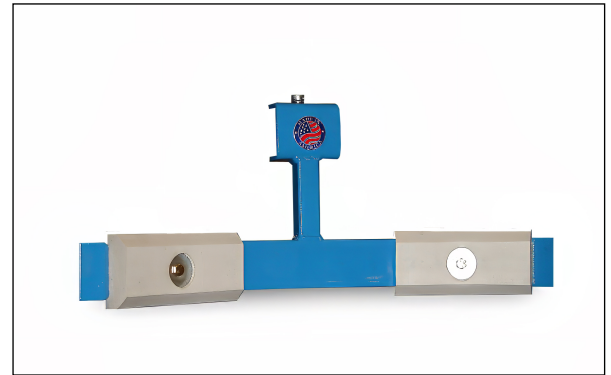
Other Adaptors for the RTC420NG3 and RTC420M2 Tank Dollies



RTC100 adaptor for 100 LB propane tanks and compressed gas cylinders.



RTC2516 trailer hitch adaptor



RTC50 adaptor for 50-Gal. (200 LB) propane D.O.T. cylinders.



Limited Warranty

Effective January 1, 2025

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'S 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 its dealer for a period of one (1) year. NO WARRANTY is made by Renaldo with respect to blowers, 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 torches, hoses, chain, sprockets, belts, blades, tires 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 goods, 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 any 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.

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