

RTC120 ADAPTER INTRODUCTION

CHECK THE DATA PLATE FOUND ON THE HANDLE BARS. THE LAST TWO NUMBERS IN THE SERIAL NUMBER INDICATE THE YEAR OF MANUFACTURE. NOTE THERE ARE TWO DIFFERENT WAYS OF INSTALLING THIS ADAPTER DEPENDING ON THE YEAR YOUR UNIT WAS MADE.

If any structural repairs have been made involving the cross braces of the top or bottom frame assemblies, this adapter may not fit. OR, in some cases it may not be necessary to complete all the steps described below. On model RTC420H the cross brace located directly in front of the handle bars on the top frame is very important to the operation of the adapter. Before you start the installation procedures, we suggest you place the adapter on the tank carrier to see if the brackets on the back of the adapter line up. Then, turn the crank to see if any obstructions occur. You should now have a better understanding of what needs to be modified. No frame modifications are necessary on most models of the RTC420NH & RTC420NG.

INSTALLATION INSTRUCTIONS FOR RTC420H TANK DOLLIES (FOR MODELS MANUFACTURED PRIOR TO 1997)

Installation Time: Approximately 1 hour

Tools Necessary: Welder, hack saw, hand grinder or file, 3/8" drill with 5/16" bit, visegrip style pliers, 2- 3/4" box/open end wrenches, blade type scraper.



FIG. 1



FIG. 2



FIG. 3



FIG. 4

STEP 1: REMOVAL OF LOCKING CHAIN AND BOTTOM FRAME CROSS BRACE

NOTE: If you are not a competent welder, or without facilities to make the necessary modifications to this machine, we suggest that you not attempt this installation and contact a local welding and repair shop for assistance.

A. Using a hack saw, remove and discard the 24" length of tubing located between the handle bars of the bottom frame assembly—the cross brace with the welded locking chain attached to. In step 4A this bar will be re-welded in a position so as not to interfere with the operation of the hand crank. A new cross brace is provided with this installation kit. (Figure 1.)

B. Cut or grind the locking chain catch from the brace located closest to the handle bars on the top frame.

STEP 2: PAD REMOVAL

A. Using a scraper, remove and discard the 2" x 9" black, rubber pads located on the curved braces of the top frame assembly. The RTC120 adapter will not fit with these pads in place. (Figure 2.)

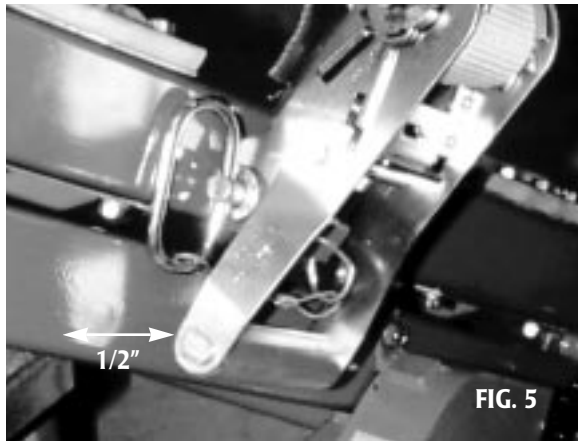
STEP 3: MOUNTING RTC120 ADAPTER AND RATCHET

A. If it already hasn't been, remove the yellow strap completely and place the RTC120 adapter on the tank carrier. It MUST be mounted in the CENTER of the unit. (Figure 3.)

B. Drill a 5/16" hole through the bottom cross brace, using the mounting bracket on the RTC120 as a drill guide. Install the provided 5/16" locking pin. (Figure 4.)

NOTE: You are now going to modify the ratchet to serve a dual purpose (for use with and without the adapter). This modification uses a removable pin, which does not apply tension to the mounting bracket, allowing the ratchet to rotate free in the mount. A "stop" must be welded to the ratchet mount to prevent it from rotating back between the two frames and becoming damaged.

C. Using a 3/4" wrench, loosen the bolt and adjust the hand ratchet on your tank carrier so that there is approximately 1/2" of clearance between the ratchet handle and the bottom frame. Retighten the 1/2" bolt. This is the recommended position of the ratchet for normal operation. (Figure 5.)



D. Open the ratchet, moving the handle furthest away from the mounting bracket.

E. Tack weld the 1/4" x 3/4" x 2-5/8" piece of plate (provided) to the ratchet mount in a lengthwise position. You are creating a "stop" for the ratchet to prevent it from rotating in the mount. (Figure 6.)

F. Remove the 1/2" bolt and ratchet from the machine. Complete the process of welding the "stop" to the mount. Weld front and back, taking care not to run the weld into the bolt hole.

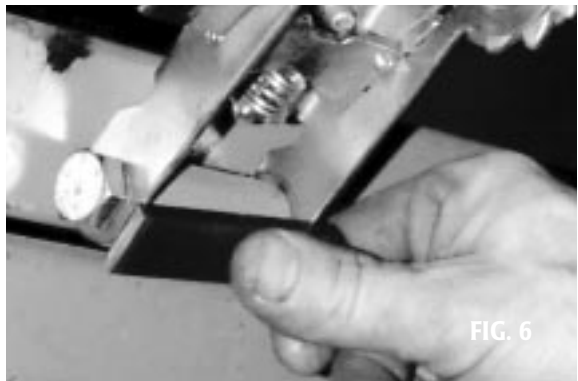
G. Replace the ratchet using the 1/2" pin provided with the adapter kit. (Figure 7.)

STEP 4: REPLACEMENT OF CROSS BRACE AND LOCKING CHAIN

A. With the adapter installed, weld the new 24" length of tubing to the bottom frame in a location that clears the adapter and hand crank.

B. Weld the new locking chain to bottom frame, offset to one side.

C. Weld the new catch to the top frame, directly above the chain.



INSTALLATION INSTRUCTIONS FOR RTC420NH & RTC420NG TANK DOLLIES (FOR MODELS MANUFACTURED IN 1997 TO CURRENT)

Installation Time: Approximately 15 minutes

Tools Necessary: 3/8" drill with 5/16" bit, 2 - 3/4" box/open end wrenches

STEP 1: SETTING UP THE DUAL PURPOSE STRAP & RATCHET

A. Using the 3/4" wrenches, remove the 1/2" bolt securing the ratchet to the tank carrier. Remove the ratchet. Discard the 1/2" bolt. This step only needs to be done prior to first time use.

B. Remove tank strap from left side of top frame. A longer strap is provided with this kit to fit the diameter of a horizontal 120 gallon tank. If the old strap is in good condition (not frayed or torn), keep it around for a back up.

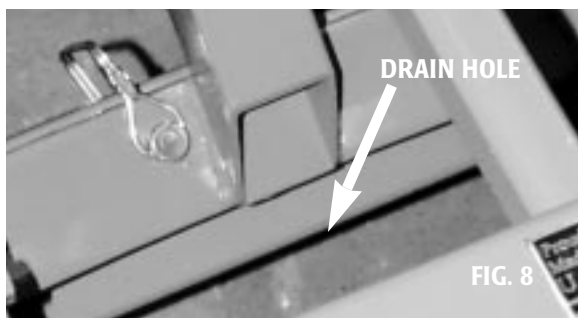
C. Attach the padded end of the new strap to the ratchet using the supplied hitch pin. The pad should extend under the ratchet to protect the tank paint from scratching. This new strap is used for securing tanks in both the vertical and horizontal position.



STEP 2: INSTALLING THE RTC120 ADAPTER FOR FIRST TIME USE

A. Place the tank adapter over the top of the bottom rung of the top frame. It may be necessary to adjust the top yoke of the adapter up or down to allow it to drop over the second rung. Secure the adapter with new devis pin supplied with this kit. (Figure 8.)

B. Drill a 5/16" hole through the bottom cross brace, using the mounting bracket on the RTC120 as a drill guide. Install the provided 5/16" locking pin. (See Figure 4.)



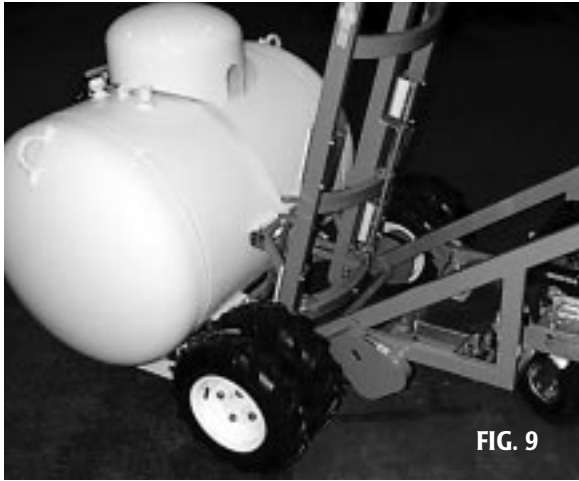


FIG. 9

C. **OPTIONAL:** You may want to drill a small (3/16") drain hole in the bottom of cross brace to prohibit water from collecting inside the tubing.

STEP 1: ATTACHING ADAPTER TO TANK

A. Turn crank to lower adapter tank cradle. Unlatch top frame and raise it to the vertical position. Drive up to the 120 gallon tank. Secure the tank to the cradle using new strap assembly. See decal's on RTC120 adapter for correct strap placement. (Figure 9.)

NOTE: 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.

STEP 2: TRANSPORTING TANKS

B. After tightening the ratchet securely, pull back on the handle bars and latch the top frame to the power unit. Depending on the weight of the tank, it may be necessary to lift and secure the power unit to the top frame. The added weight of the motor and frame will assist the operator in tipping the tank back onto the mover for transport. (Figure 10.)

C. Once in the down position, hold down the entire unit with one hand and turn the crank until the tank is fully in the back position. To set the tank reverse the procedure.

SPECIAL NOTE: When carrying a tank always drive the unit forward when going up grade and in reverse when going down a grade.



FIG. 10



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