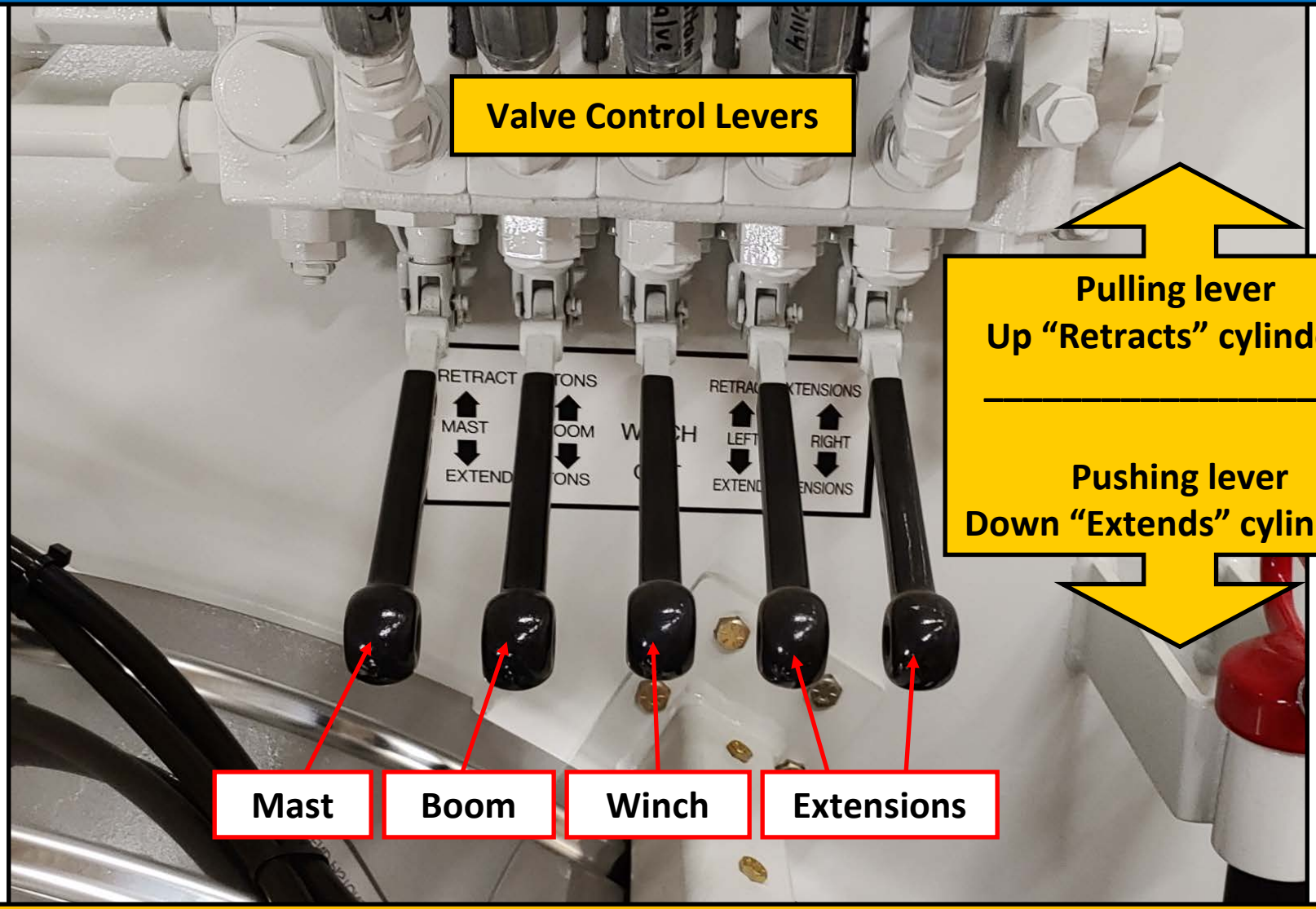
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

The following basic instructions will help you get started with using your Tru-Hitch.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH



These are your cylinder controls. You will use the Mast and Boom functions most of the time. Become familiar with the levers and their actions when pushed or pulled.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

The Control Box for the Tru-Hitch. Turn the key on to power the unit. The "Electric"/"Wet Line" switch determines how the remote control operates in those modes, and the Strobe and Work Light switches operate onboard lighting. The voltmeter gives visual confirmation of battery condition and charging. The remote control receiver is connected to the Control Box.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

In “Electric” you must press and hold the orange button to activate the pump motors on the Tru-Hitch. If using the remote control in “Electric”, the pump motors will activate automatically. If you are using PTO driven wetlines from your tractor the control box is set to “Wetline” and orange button is not used, and the pump motors will also be automatically deactivated during remote control operation.

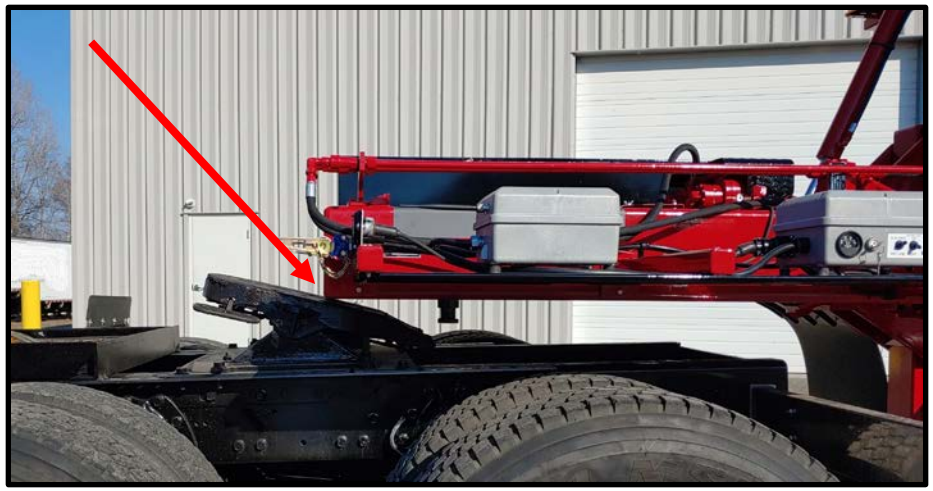
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

There are no permanent connections required to use the Tru-Hitch. A standard wheelbase tractor is all that is needed. When the Tru-Hitch is disconnected and parked with it's extensions out, it can sit safely ready to back a tractor under. It takes just a few minutes to connect to your tractor and place into transport configuration.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

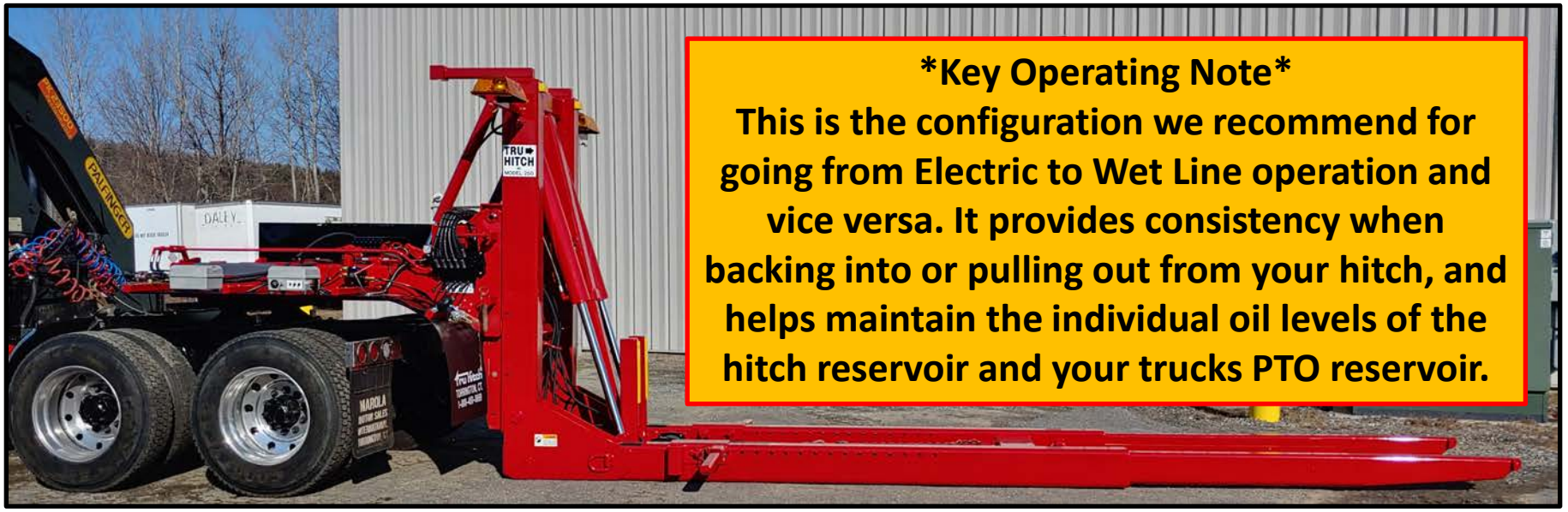
To attach the Tru-Hitch to your tractor simply align yourself to the front of the hitch, and then back until your fifth wheel is centered under the front of the fifth wheel section.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

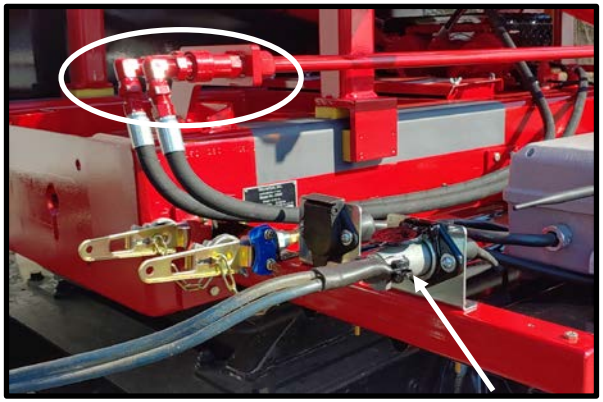


Use the Boom function to level the hitch, and the Mast function to adjust the height of the hitch to your fifth wheel, and then back under and lock into the Tru-Hitch just like backing under a trailer.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH



Key Operating Note
This is the configuration we recommend for going from Electric to Wet Line operation and vice versa. It provides consistency when backing into or pulling out from your hitch, and helps maintain the individual oil levels of the hitch reservoir and your trucks PTO reservoir.



Electric operation – power cord connected and hydraulic lines connected

Wet Lines – 1. Remove the soft lines and connect them together

Wet Lines – 2. Connect the lines from the PTO to the hard line connections.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Make sure to set the Control Box to Electric or Wet Line to match how you are operating your hitch. When operating in Wet Line there is no need to press the electric motor button, and the remote control will operate the valve control levers without activating the pump motors

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

Once connected to the fifth wheel, BOOM EXTEND which will raise the fifth wheel section slightly above the after frame of your tractor, making room to deploy the transport legs. Remove the bungee strap from the handle and rotate the legs down and lock them into position. You should feel a solid locking action. Check that the feet on the legs are centered above the frame of your truck. If they are off center you can simply pull forward, turning in the direction needed to line the legs up to your after frame.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

BOOM RETRACT to set the transport legs onto the frame of the tractor. The Tru-Hitch should now be supported on the truck off the ground. NOTE: It may be necessary to MAST EXTEND slightly to bring the mast and booms off the ground, supported by the transport legs.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

RETRACT both extensions completely into the booms

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

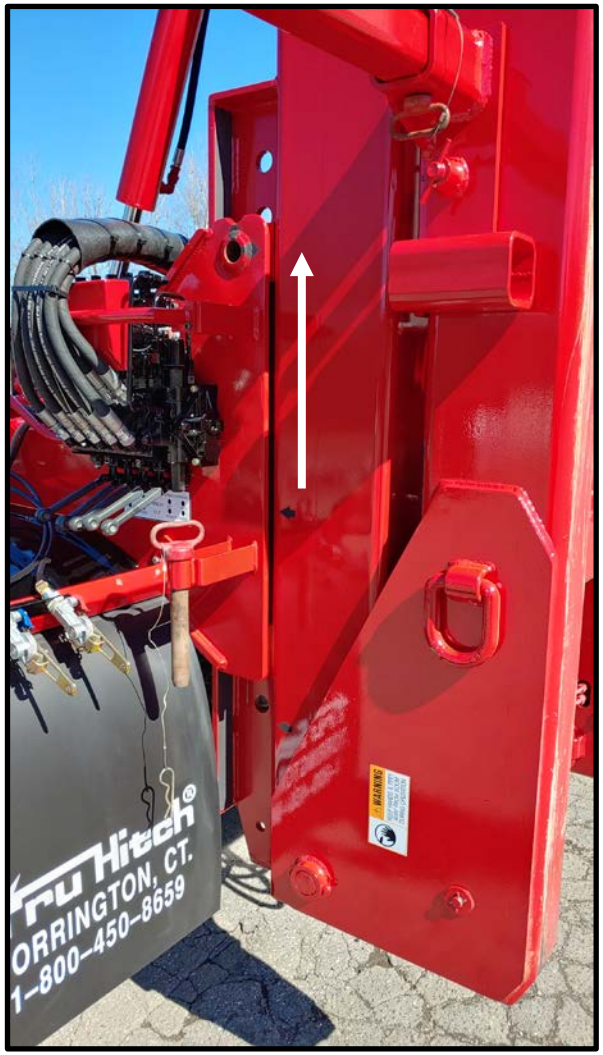
BOOM RETRACT until they are fully retracted against the mast.

CAUTION

Watch for overhead obstructions and power lines.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

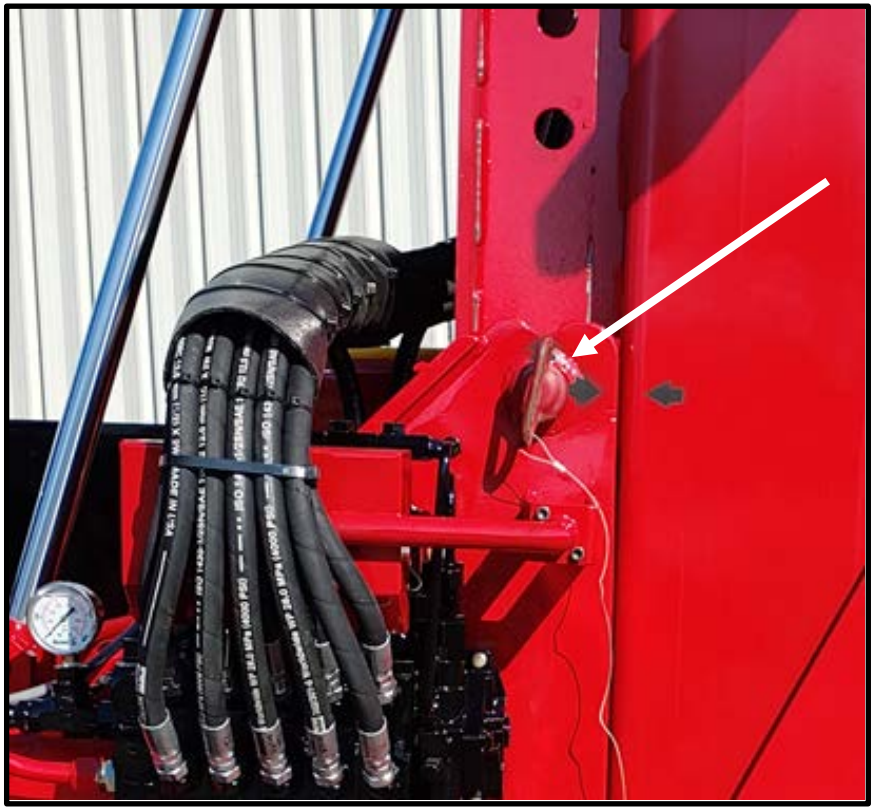


MAST EXTEND until black arrow on the mast aligns with the black arrow on the pivot hole of the fifth wheel section.

Note that when the arrows align the mast and boom are also visually flush at the bottom to the fifth wheel section side plate.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration



Remove two pins from their holders and insert them into the pivot holes on both sides of the hitch.

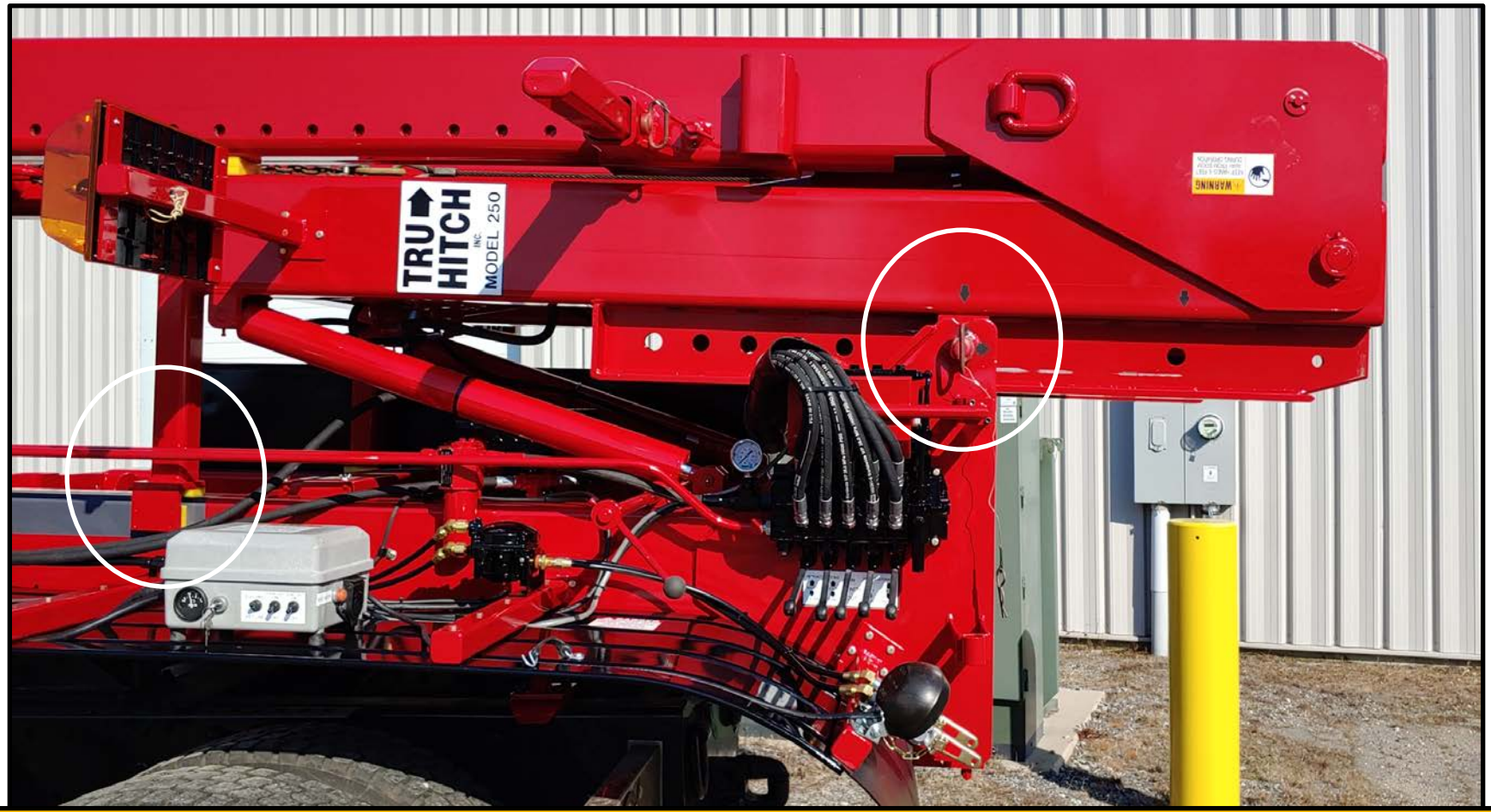
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

MAST RETRACT to bring the mast and boom sections over onto the fifth wheel section. The support arms will land on the fifth wheel section.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration



Just after the support arms contact the fifth wheel section the pivot pins will loosen. Once the pins loosen remove the two pins and place them back in their holders.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

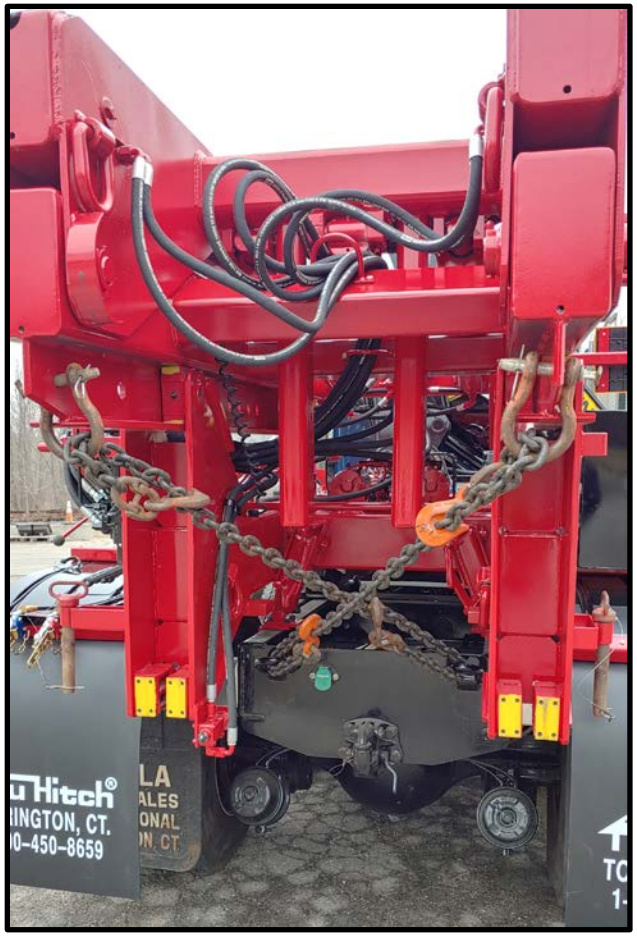
Transport Configuration

Once the pins are removed MAST EXTEND to bring the mast and booms over the fifth wheel. CAUTION – Do not extend past the second arrow or damage to the support arms may occur.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Transport Configuration

Finally, install a set of clevises in the end of the mast and then loosely install cross chains from the clevises to the rear of the frame on your tractor. Once installed, MAST RETRACT to tighten the chains. This will secure the Tru-Hitch from moving during transport.



BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

In preparation for lift towing from the transport configuration MAST EXTEND slightly to loosen your transport chains. Remove and stow the chains and clevises.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

MAST RETRACT until the black arrow on the mast aligns to the arrow on the pivot hole and insert pivot pins in both sides.

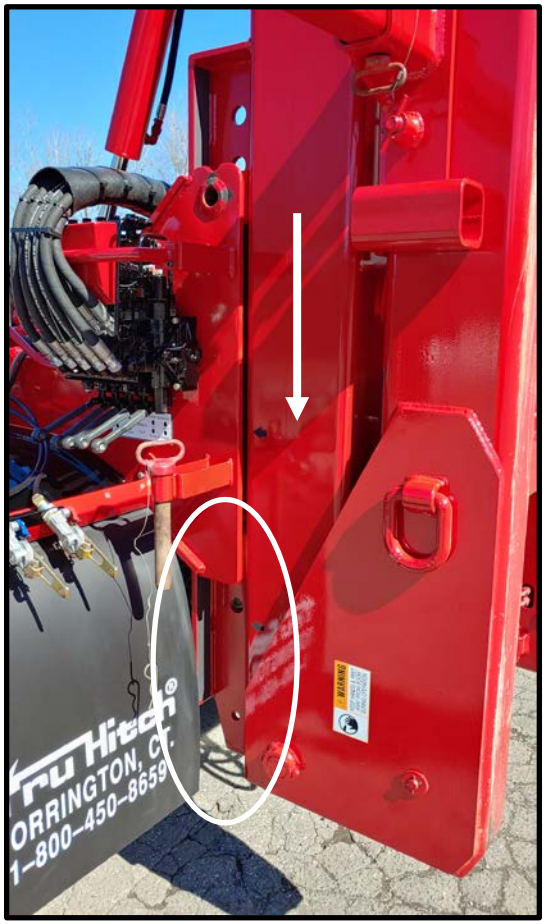
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

MAST EXTEND to bring the mast and booms to the vertical position.
Once completely vertical watch for the pivot pins to loosen.
Caution – Watch for overhead obstructions and power lines.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing



Once loose, remove the pivot pins and stow them in their holders. Then MAST RETRACT to bring the mast down and fully engaged into the fifth wheel section.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

BOOM EXTEND until the booms are parallel to and just off the ground, ready to back under a truck.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Line up to the truck you want to tow. Booms off the ground, just enough to back without dragging, while still allowing the booms to get under axle of truck you are towing. Adjust your receivers on the booms so that the wheel stops will contact the tires of the towed vehicle without the front of the vehicle contacting the bumpers stops on your Tru-Hitch.

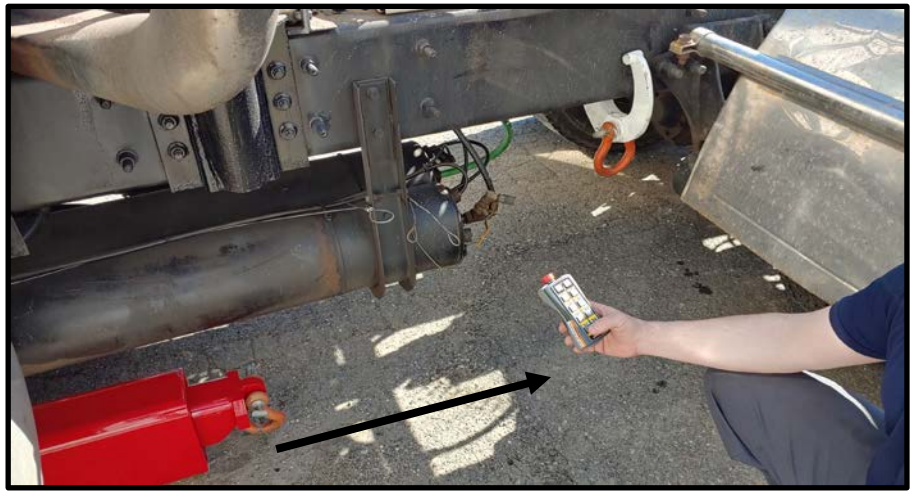
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Back under the truck to be towed until the wheel stops contact the front tires. You want the wheel stops contact pattern to be as even as possible on both sides.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing



Now EXTEND the Extensions to an area that you can make a rear hook up with chains. Go as far back as possible for the truck you are towing. In this example, the area just forward of the rear axles is easy to get at for chaining. It will be different for each truck.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

IMPORTANT!!!

Now BOOM EXTEND. The booms will pry off the ground and lift the Fifth wheel section so that the transport legs are off the frame and can be rotated out of the way.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Rotate the handle to bring transport legs up and out of the way.
It should take a little initial effort to “unlock” the transport legs

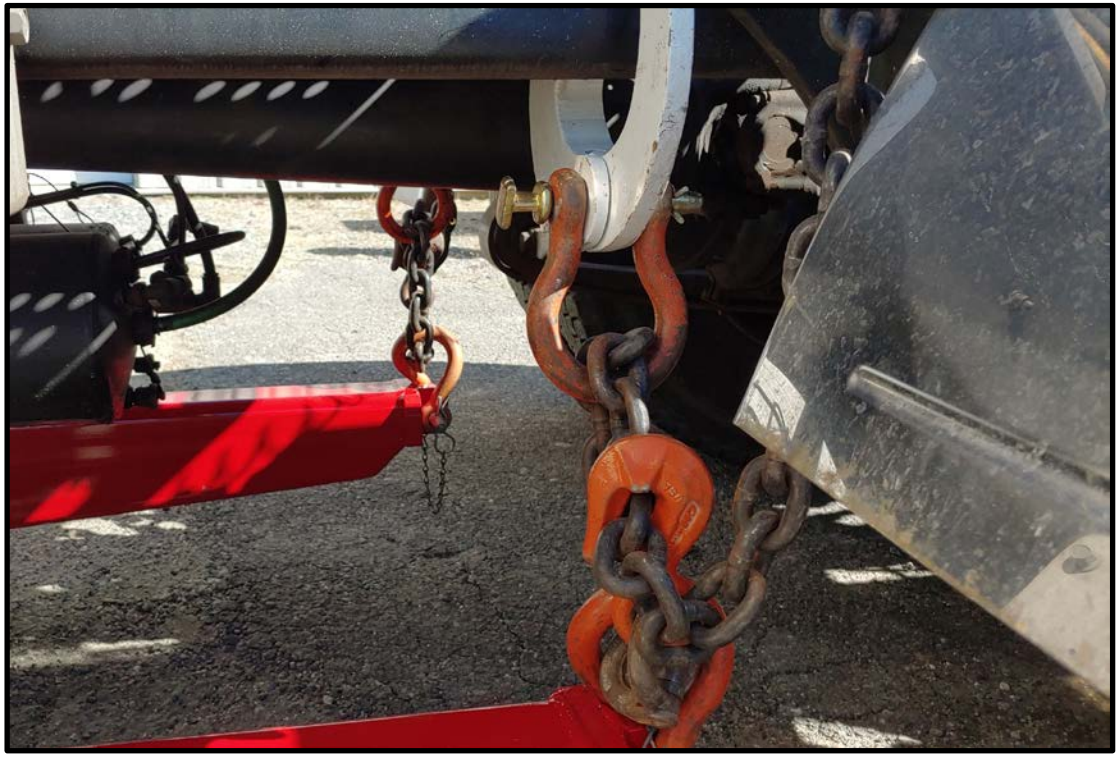
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

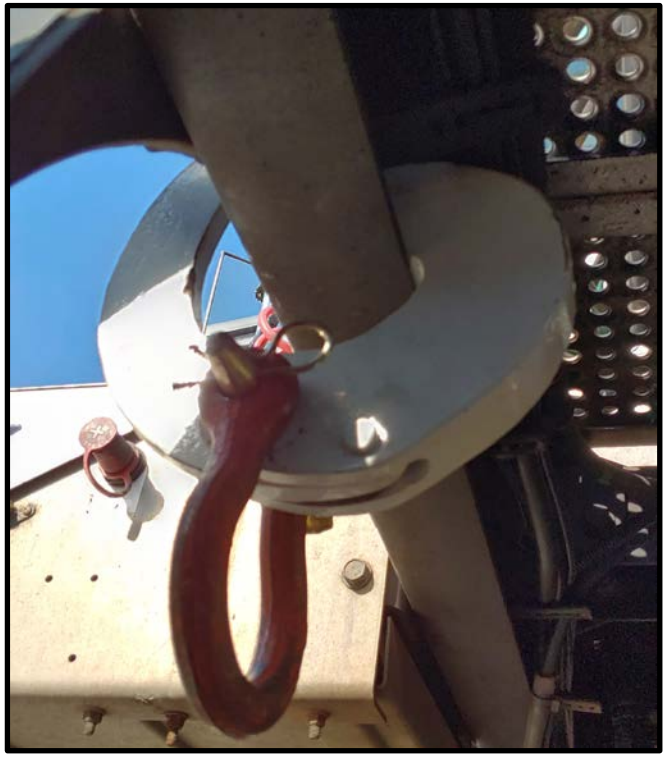
Lift Towing

Once Transport legs are out of the way, BOOM RETRACT until the booms and extensions are as high off ground at the rear as possible, without hitting anything underneath the truck. (air tanks, fuel tanks, crossmembers, etc..) How high will vary by the pick but don't panic if you only get a few inches. That will be enough.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing





Now you make your rear connection from the truck to the Tru-Hitch. Here it shows a chain run between the twist clevises on the end of the extension and frame hooks. The frame hooks are made so that, when space permits, they can be rolled onto the frame whole or pinned after being placed into position.

BASIC LIFT TOW INSTRUCTIONS FOR THE TRU-HITCH

Here are other different methods to make a rear hook up, chain basketed over both sides of open frame to a clevis on end of extensions, chain directly around extension, or using the frame hook with chains. There are also sling hook/grab hooks provided to create chaining points. Use what is best for the situation. However NEVER wrap a chain around an individual frame piece. This could damage the frame.

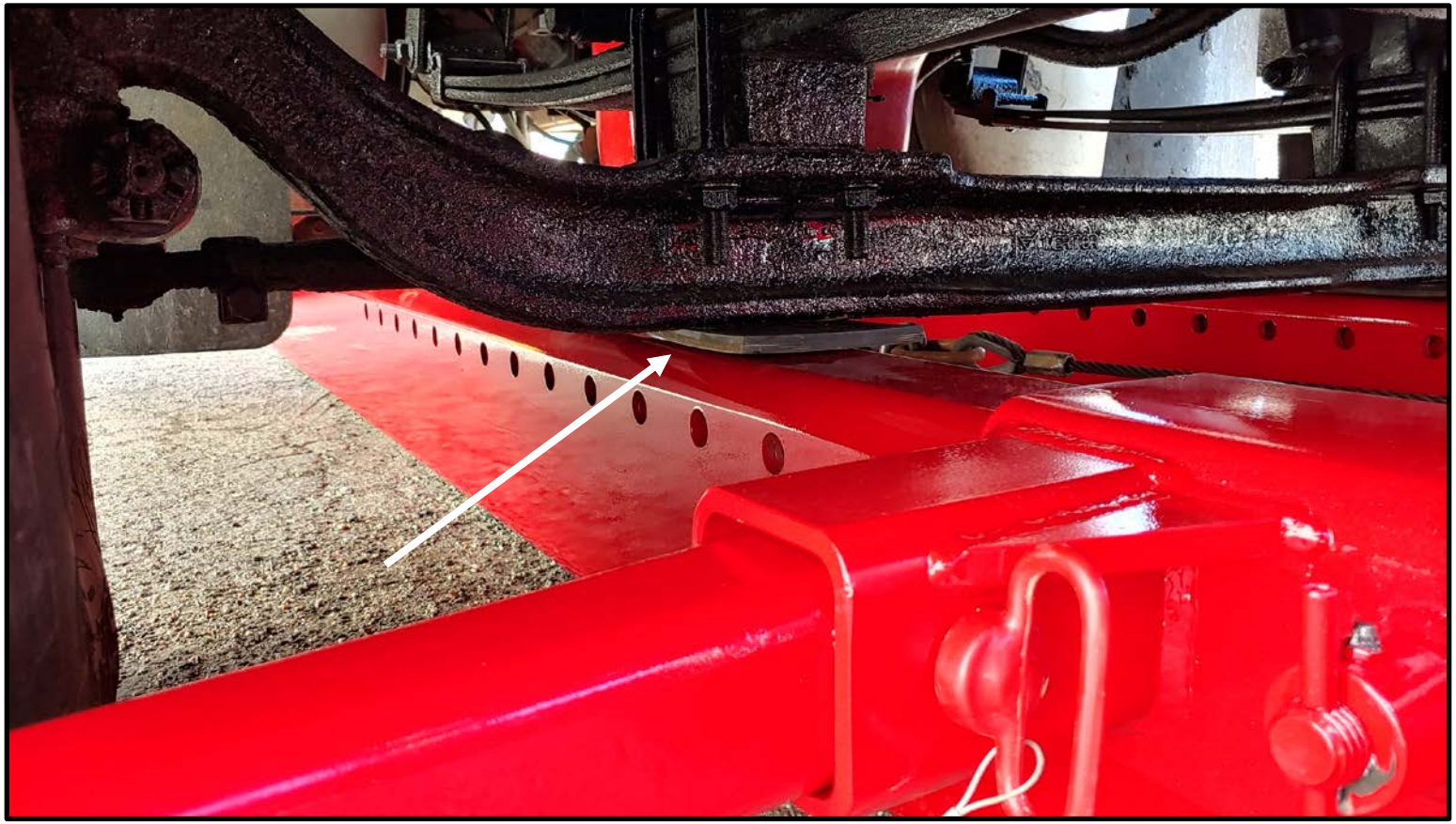
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Once the rear hook up chains are in place, BOOM EXTEND slightly until the chains at the rear tighten, and the base of the boom at the mast comes slightly off the ground. We call this the "float" position. It will center the pick to your chaining setup. Check your rear chains to make sure the pull looks vertical and that nothing came loose.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing



Now you can check to see if any blocking or shoring is needed at the front axle area to take up space to the axle or protect tie rods etc. Here, because the space is minimal, we simply added some rubber cushioning to help prevent steel on steel movement.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Now BOOM EXTEND until the hole in the center ram is exposed that will keep the fifth wheel level for towing. Insert the safety pin and BOOM RETRACT just enough to set the pin.

Then MAST EXTEND OR RETRACT as needed to get more tow height and help level the fifth wheel further. Insert pins in the mast and MAST RETRACT to set the pins.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Truck is in the lift tow position, Fifth wheel area of tow truck is level, and safety pins are installed. The only place this load will pivot is at the fifth wheel. You have essentially turned the towed truck into a trailer! Only after you have the safety pins in place should you go under the axle area to install safety chains.

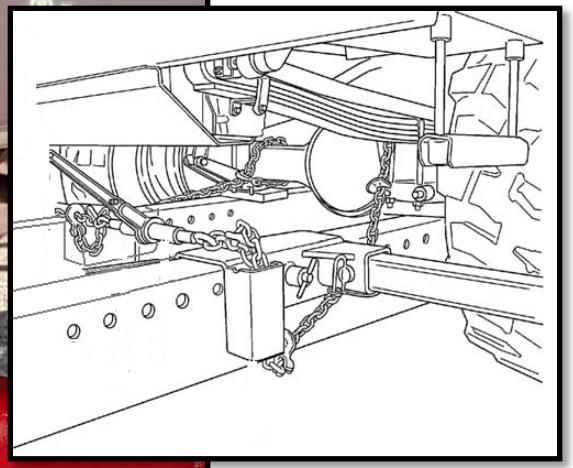
BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing

Here the safety chain is around the front axle, inside of the leaf spring, out over the boom, under the wheel stop, and to the D-Ring with a binder. When tight this keeps the tires from climbing over the wheel stop.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Lift Towing



Another method is to go around axle , inside of the leaf springs, over the boom, under the wheel stop, and up through the vertical pocket. Do this on both sides and use one binder to connect both chains together.

BASIC OPERATING INSTRUCTIONS FOR THE TRU-HITCH

Finish by removing the driveshaft, caging the brake chambers or running brake lines, hooking up the light bar, securing the steering wheel, etc… and you are ready to tow!