

Storing, Removing, and Replacing the Wire Rope

Storing and Replacing the Wire Rope, General Information

If you are installing a Boom Tip Accessory System, like an Aerial Work Platform or a SPYDERWEB Glass Handler, you **MUST** remove the installed hook block and store, or remove, the wire rope.

Vehicle Start Condition

- ◆ 095-/200-Series
- ◆ Deployed (any state)
- ◆ Boom Deployed, NO Hook Block Installed
- ◆ ON, Remote Control

Personnel and Time Needed

- ◆ 1 Person
- ◆ Standard PPE
- ◆ Heavyweight, rope-handling gloves
- ◆ <10 minutes

Tools and Equipment Needed

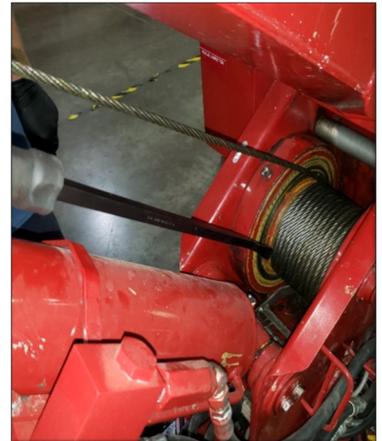
- ◆ Heavyweight rag for handling wire rope
- ◆ Plastic shrink-wrap or duct tape

To Store the Wire Rope to the Wire Rope Drum

1. Un-reeve the wire rope COMPLETELY out of the Boom Tip and the Boom.

WARNING: To properly store the wire rope to the Wire Rope Drum you MUST spool the wire rope onto the drum TIGHTLY: you MUST PULL on the wire rope WHILE WINCHING UP to maintain tension, there is a high possibility of injury if you are not attentive.

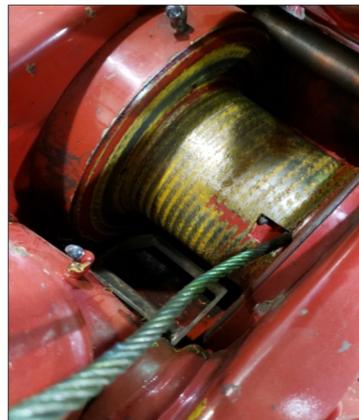
2. Grasp the wire rope near the Wire Rope Drum; ensure that you are wearing heavy gloves AND using a rag to prevent friction burns and/or getting stuck by broken wire rope strands.
3. Using the Remote Controller, SLOWLY WINCH UP to spool the wire rope onto the drum.
4. Ensure that the wire rope is laying onto the drum and wrapping into tight, ordered lines.
5. Periodically adjust your grip on the wire rope to keep at least 12 inches of space between your hand and the moving Wire Rope Drum (Fig. 1).
6. Once you have WINCHED UP all but 12 inches of wire rope onto the drum, secure the end by tying off a section of plastic shrink wrap to it and then WINCH UP to pull the shrink wrap onto the drum to secure the wire rope.



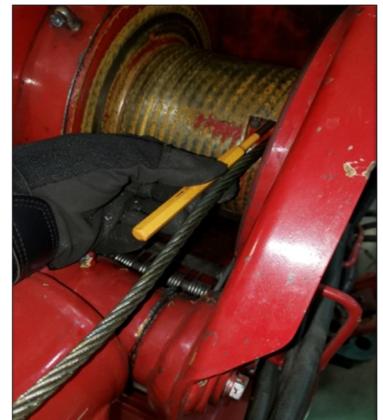
(Fig. 1): Periodically stop WINCHING UP to make that the wire Rope is laying back onto the drum in an orderly fashion.

To Remove the Wire Rope

1. Using the Remote Controller, SLOWLY command a WINCH DOWN while pulling on the rope to maintain tension; continue to WINCH DOWN until the Minimum Wire Rope Safety engages and disables the WINCH DOWN function.
2. To unwrap the final 3-5 wraps of wire rope remaining on the drum, push and hold the Overwinding Override Switch WHILE WINCHING DOWN (the Switch is located next to the Crane Control Levers, below the Hook Store Switch).
3. Continue to WINCH DOWN SLOWLY until the narrow end of the Wire Rope Wedge in the Wire Rope Drum is accessible (Fig. 2).
4. Use the small punch to tap the Wire Rope Wedge out of position and release the end of the wire rope (Fig. 3).



(Fig. 2): Rotate the Wire Rope Drum, until the narrow end of the Wire Rope Wedge is visible.



(Fig. 3): Push the Wire Rope Wedge out of the Wire Rope Drum and retain for future use.

To Install the Wire Rope

1. Reeve the wire rope through the Boom Tip, through the boom guides, to the Wire Rope Drum (Fig. 4).
2. Pass the end through the Wire Rope Socket of the Wire Rope Drum until approximately 18 inches of wire rope extends out the opposite side of the socket.
 - a. Make sure to insert the end into the socket to the right (or the side of the socket closest to the edge of the drum)
3. Form a loop in the wire rope re-insert the end back through the socket, going in the opposite direction.
4. Insert the Wire Rope Wedge into the loop and collapse the loop so that the end of the wire rope is flush with the edge of the socket ; it is CRITICAL that the end of the wire rope be flush with the drum (Fig. 4).

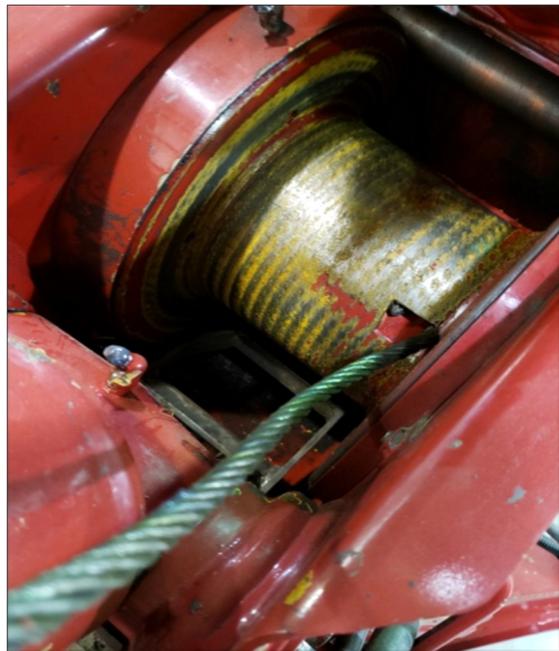
NOTE: It is CRITICAL that you maintain tension on the wire rope while WINCHING UP

NOTE: It is CRITICAL that you ensure that the wire rope wraps onto the drum in an orderly fashion while WINCHING UP

6. One person must maintain tension on the wire rope while WINCHING UP, while the other person must ensure that the Wire Rope is wrapping onto the Wire Rope Drum in an orderly fashion, one technique:
7. WINCH UP the wire rope, while maintaining tension and adjusting the wraps.
8. Continue to WINCH UP until the end of the wire rope is off the ground and hanging off the front of the right-hand Boom Tip Sheave.



(Fig. 4): Reeve the wire rope through the boom BACKWARDS, starting at the right-hand sheave of the Boom Tip.



(Fig. 5): Make sure that the end is visible in the socket cutout BUT NOT protruding out of the cutout (and tangling into the stored wire rope).