

## Installing the Sheave Assembly and Jib Hood

### Installing the Sheave Assembly and Jib Hood, General Information

If you removed the Sheave Assembly and Jib Hood to convert your SPYDERCRANE so that it can lift using the Searcher Hook from the Boom Tip, you will need to return your SPYDERCRANE to normal operations by re-installing the Sheave Assembly so that it can use its conventional 4-Part and 1-Part Hook Blocks and the Jib Hood so that it can mount Boom-Tip Accessory Systems.

#### Vehicle Start Condition

- ◆ 200-Series
- ◆ Deployed (any state)
- ◆ Boom Deployed
- ◆ Wire Rope stored/removed
- ◆ Jib System dismantled and removed
- ◆ Sheave Assembly and Jib Hood removed

#### Personnel and Time Needed

- ◆ 2 Persons
- ◆ Standard PPE
- ◆ <30 minutes

#### Tools and Equipment Needed

- ◆ 17mm, 19mm, 22mm, 24mm (x2) wrenches
- ◆ 12" prybar, or screwdriver
- ◆ Cable tie
- ◆ 10' of thin, strong string (paracord is works well)

#### To Install the Sheave Assembly

1. Temporarily assemble the Wire Rope Socket Pin to the Sheave Pin to ease installation of the Sheave Assembly.
2. Thread the 10' length of string through the dismantled Sheave Assembly in this specific order: Wire Rope Guide, right-hand Sheave, Hook Block Guide, left-hand Sheave, Sheave Spacer (Fig. 1 and 2).
3. Place the dismantled Sheave Assembly under the Boom Tip, centered.
4. Thread one end of the string through the right-side Sheave Pin hole and the other end through the left-side Sheave Pin hole.
5. With another person, lift the Sheave Assembly into place by pulling both ends of the string, ensure that the Wire Rope Guide and Hook Block Guide are oriented correctly in the Boom Tip.
6. Insert a 12" prybar, or screwdriver through the left Sheave Pin hole to support the Sheave Assembly and remove the string.
7. Insert the Wire Rope Socket Pin/Sheave Pin assembly through the right Sheave Pin Hole to support the Sheave Assembly and push out the prybar/screwdriver.
8. Once the Sheave Pin is fully inserted and the Sheave Assembly is secure and properly oriented, secure the pin using the Sheave Pin Retention Bolt and Washer.
9. Install the Hook Block Guide Bolt (8mm Allen) to secure the guide.
10. Remove the Wire Rope Socket Pin OR install the Wire Rope Socket to complete the installation.



Fig. 1) The Sheave Assembly: the Wire Rope Guide, right-hand Sheave, Hook Block and Bolt, left-hand Sheave, and Spacer.

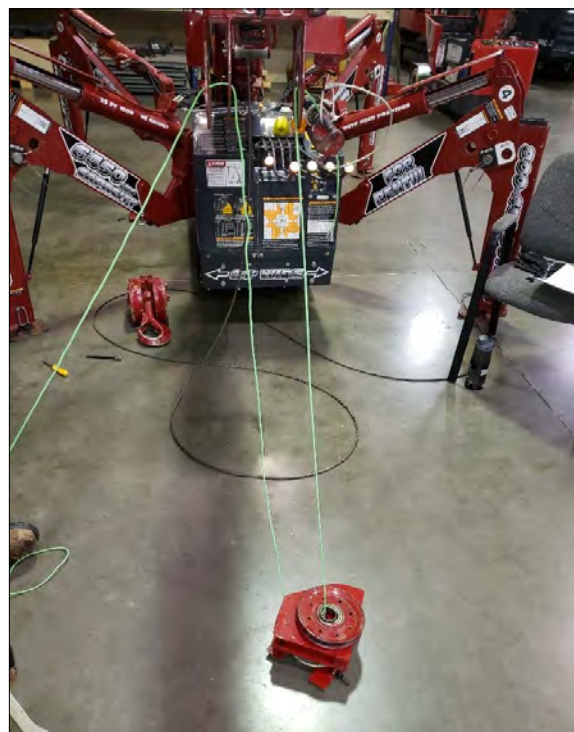


Fig. 2) The string used to line-up and install the Sheave Assembly.

### To Install the Jib Hood

1. Place the dismantled Jib Hood on top of the Boom Tip so that the holes for the Jib Hood Alignment Pin and Jib Hood Pin are lined up; make sure that the A2B Extension Cord is hanging freely (Fig. 3).
2. Loosely install the Jib Hood Pin and Retention Bolt (17mm).
3. Install the Jib Hood Alignment Pin from the left- to right-side of the Boom Tip.
4. Thread the and tighten the first Jam Nut on to the right-side of the Jib Hood Alignment Pin; tighten no more than finger-tight.
5. Thread the second Jam Nut onto the Jib Hood Alignment Pin; use one 24mm wrench to hold the first Jam Nut in-place and the second 24mm wrench to tighten down the second Jam Nut.

**NOTE: Tightening the Jam Nut(s) more than finger-tight can crush the structure of the Boom Tip and prevent the Sheaves from rotating normally.**

6. Install the two 22mm bolts and lock washers to the front of the Jib Hood (Fig. 5).
7. Tighten the Jib Hood Pin Retention Bolt 1 full turn past finger-tight to complete the installation.



Fig. 3) The Jib Hood Alignment Pin and Jam Nuts and Jib Hood Pin.



Fig. 5) You will need two 24mm wrenches to install the Jib Hood Alignment Pin Nuts.



Fig. 5) The 22mm bolts that hold the Jib Hood in-place, indicated by the yellow circles.