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Part Number: **OPT-01857**

Description: **Spring Loaded Mast System for Ground Hog**

RE: **Field Installation directions for Mast Installation**

The OPT-01857 spring loaded mast system can be installed onto Ashland Ground Hog 2500 scrapers already in service. Currently there are NO provisions on the machines in service to receive the laser mast kit.

Tools Required: Electric Jig Saw, Welder, Electric Drill, Drill bit, two c-clamp, Center punch

Installing Pad:

Step 1:

1. Within your kit, identify the square mast pad, 7" x 7" x 1" Figure 1. and mark the center line.
2. On your Ground Hog, locate the center-line of the machine. Figure 2
3. Align the center-lines of the mast pad and the rear walk-way, mark the outer edges of the pad onto the walk-way.

Figure 1

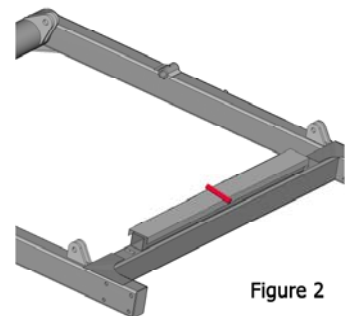
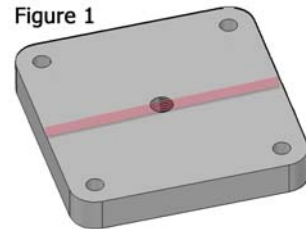


Figure 2

4. Cut the walk-way material with saw leaving the 3" x 3" x1/8" square tubing that protect the hydraulic lines. Figure 3

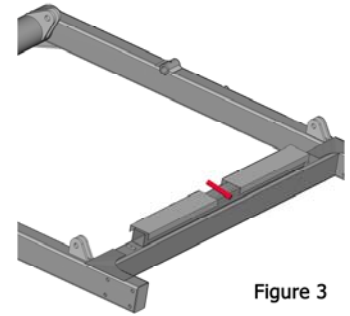


Figure 3

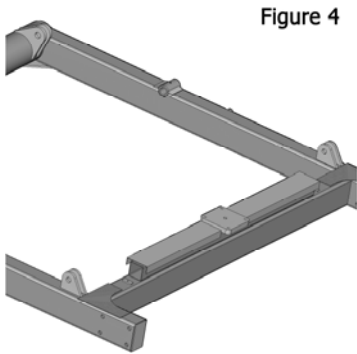


Figure 4

5. Weld the pad onto the 2" x 2" tubing and add any necessary gussets to stabilize the pad from vibration. Figure 4 **IMPORTANT:** The pad must sit flat on top of the tubing.

Step 2:

1. Securely fasten the spring loaded mast onto the welded pad. The two guide lugs should point out towards the side of the machine.
2. Hydraulic lower the scraper bowl until the blade are roughly 2" to 4" (5cm to 10cm) off the floor.
3. Position the pull-down arms on the outside of the bowl while centering the arms to the lugs on the mast.
4. Once the arms are centered over the mast lugs, use the c-clamps hold the pull-arm assembly to the scraper bowl. Slowly activate the machine hydraulically to confirm the pull-down arms are perfectly centered over the lugs of the mast. **IMPORTANT:** This kit was designed so when the bowl reaches its maximum depth of cut, the mast should have a small amount of travel remaining. If the mast bottoms out before the scraper reaches it's fully depth of cut it may cause the arms or the bowl to bend. If you see that the mast is bottoming out before reaching the full depth of cut you may need to shim up the pull-down arms.
5. Use a sharp center punch to locate the eight holes that are required to be drilled onto the bowl. Install the provided 1/2" x 1/2" bolts and firmly tighten.
6. Some customers have indicated that they welded corner gusset on the inside of the scraper bowl between the bolts to prevent the bowl from fatigue. We don't provide these gussets; Sticky material can build up near the gussets.

Step 3:

1. Slowly the machine thru a complete cycle. When the scraper reaches it full-depth of cut, turn off engine and exit the machine, attempt to pull the mast down by hand to determine the amount of travel remaining.

Because of the UPS length regulations, the mast needs to be disassembled if it is shipped by UPS or other package carriers. To reassemble the mast please follow the step listed below.



Slide the square pole cover plate over the top of the pole



Slide the coil spring inside of the pole mast tube.



Have a second person compress the mast pole spring and install the cover. Tighten the six bolts on the cover plate.



All parts for the mast pole system.