

# Technical Bulletin

1/14/2016

## Brush Arm Upgrade



The clean out brush that the probe tip rotates through is held in place by a tubular arm that has been fashioned to connect to the actuator arm. To properly align the brush, the long part of the arm was cut at an angle then welded to another piece of tube that was welded to a face plate and bolted to the actuator arm. We discovered that this weld of the two tubular pieces of the brush arm can have a significant variation in the penetration of the weld. Arms with not enough penetration are at risk to break at the weld. Furthermore, we are unable to validate or confirm whether this weld is sufficient during machine production or in field diagnostics.

Broken arm with shallow weld.



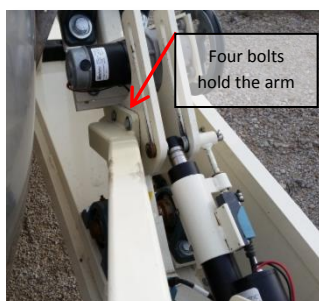
Therefore, we are upgrading brush arms that were produced with this type of weld connection.

The upgraded brush arms have had both ends angled back to allow for deeper penetration. A gusset was also installed to reinforce and stabilize the arm. The new arms require no welding or fabrication on behalf of the Falcon owner or operator. The pre-fabricated arm has been verified to meet the new specifications.

### Instructions

You are receiving within the parcel carrier the new brush arm, instructions and a return ticket. **DO NOT DISCARD** the packaging. Place the original arm back in the package as the new one came, reseal and attach the enclosed shipping label. You can drop the package at any UPS shipping center or contact UPS to schedule a pickup. For replacing the arm read through the instructions as follows:

1. Remove the original arm. Four bolts on the base face plate connect the arm to the drum arm assembly.
2. Remove the clean out brush. On the top of the arm, loosen the two set screws and remove the clean out brush. Set the old arm aside for repackaging.
3. Mount the new arm. Replicating the old brush arm's placement; set the new arm in place and secure it with four bolts on the face plate to the drum arm assembly.
4. Attach the clean out brush on the top of the arm assembly. Be sure to set the brush horizontally to place bristles to rub on both outer sides of the probe tip. Set the depth of the clean out brush to protrude 1¼ inch into the depth of the probe.
5. Your machine should be all set to go. Please remember to use the included shipping label and return the original brush arm.



### Questions?

Contact:

Dustin Blunier

309-226-3099

[Dustinb@falconsoil.com](mailto:Dustinb@falconsoil.com)