On occasion a squeaking noise may be heard while using or adjusting the vertical arms on the Rear Delt/Pec Fly. This service bulletin will describe how to identify the location of the squeaking noise and the procedure for applying lubrication at the affected area to eliminate the noise.

Units that may be affected are:

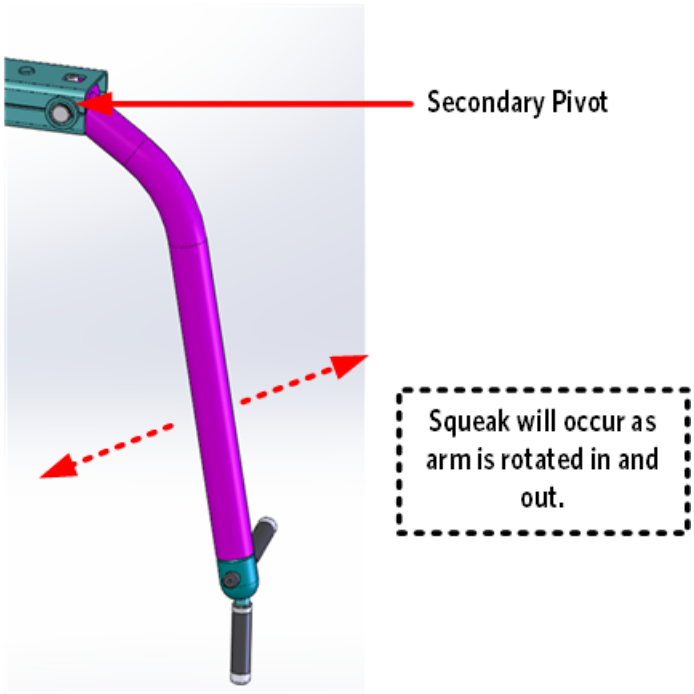
- DSL505 Rear Delt/Pec Fly (serial code BA71)
- C505 Rear Delt/Pec Fly (serial codes BKRP, BWJN, BPCP, BDCP, BGJP, BD57)

Locating the Source of the Squeak

Secondary Pivot

- If the squeaking noise occurs during machine use, as the vertical arm is rotated in and out, the squeak is in the secondary pivot. **See Diagram 1**. If the noise is at the secondary pivot, use the **Secondary Pivot Lubrication procedure** to fix the squeaking noise.

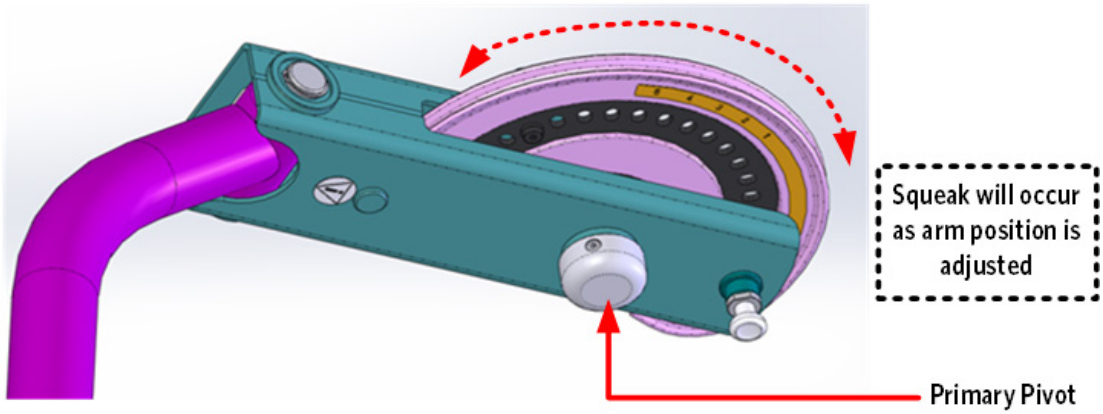
Diagram 1



Primary Pivot

- If the squeak doesn't occur during machine use, but rather as the arm is being adjusted to the desired start position, the squeak is in the primary pivot. **See Diagram 2**. If the noise is at the primary pivot, use the **Primary Pivot Lubrication procedure** to fix the squeaking noise.

Diagram 2



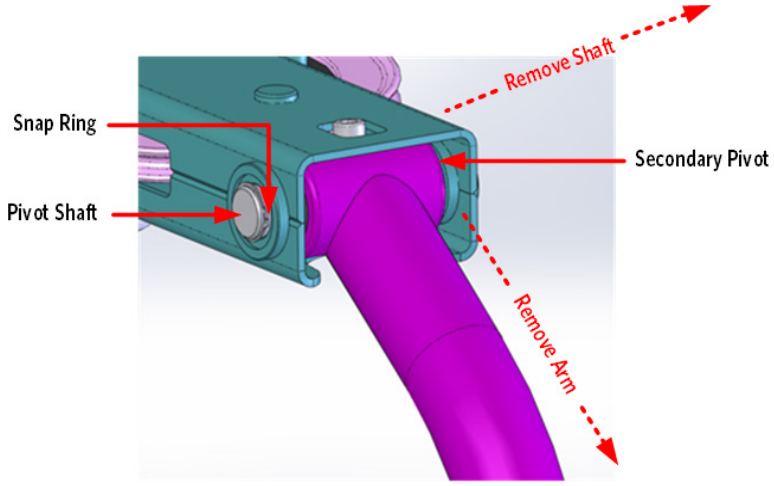
Secondary Pivot Lubrication Procedure

Tools Required:

- Snap Ring Pliers
- Lithium Grease

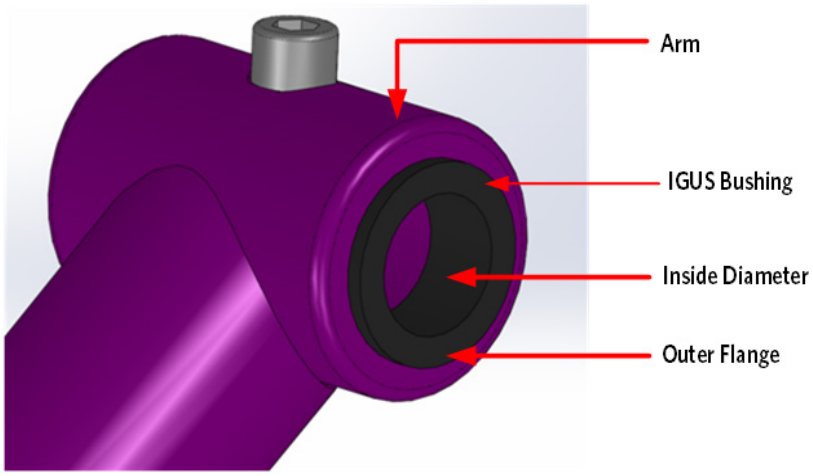
1. Fully read and understand all instructions prior to beginning installation.
2. Using snap ring pliers, remove one of the snap rings that are retaining the secondary pivot shaft. **See Diagram 3.**
3. Knock the pivot shaft out of the machine. Remove the arm. **See Diagram 3**.

Diagram 3



4. Locate the two IGUS bushings on the removed arm. Apply a smooth coat of Lithium grease to the inside diameter and the outer flange of each of the two IGUS bushings. **See Diagram 4**.
5. Wipe any excess grease off the machine with a clean dry rag.

Diagram 4



6. Reinstall the arm on the machine.
7. Check the machine for proper operation prior to placing back into service. **Note: This procedure should be part of the machines regular scheduled preventative maintenance as the lubrication wears off with machine use.**
8. Repeat the **Secondary Pivot Lubrication Procedure** for the other arm.

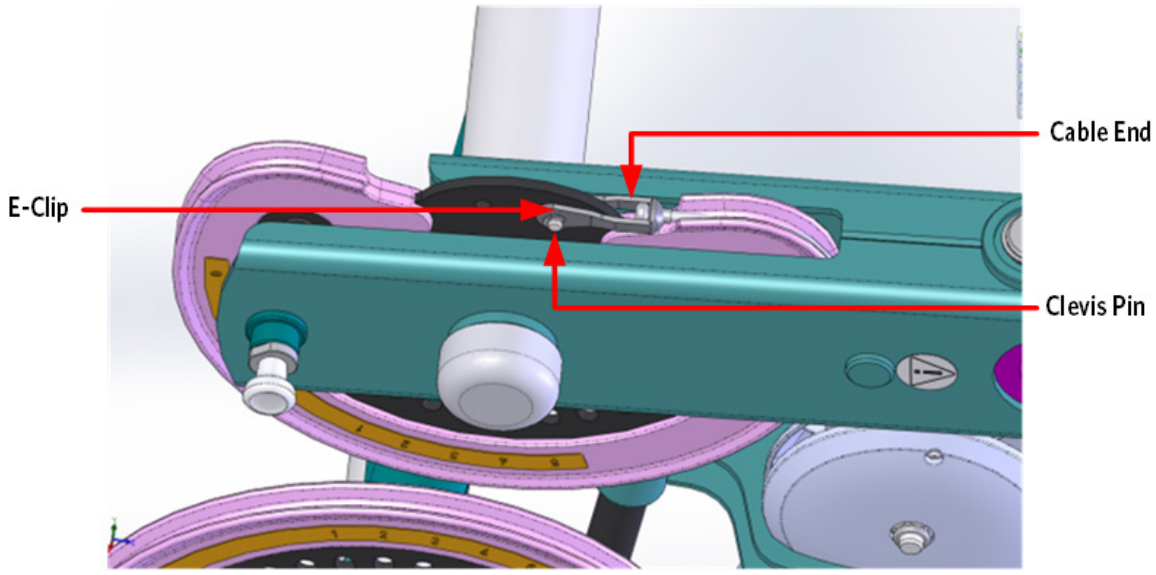
Primary Pivot Lubrication Procedure

Tools Required:

- Tri-Flow PTFE
- 5/32" Allen Drive Wrench
- Torque Wrench

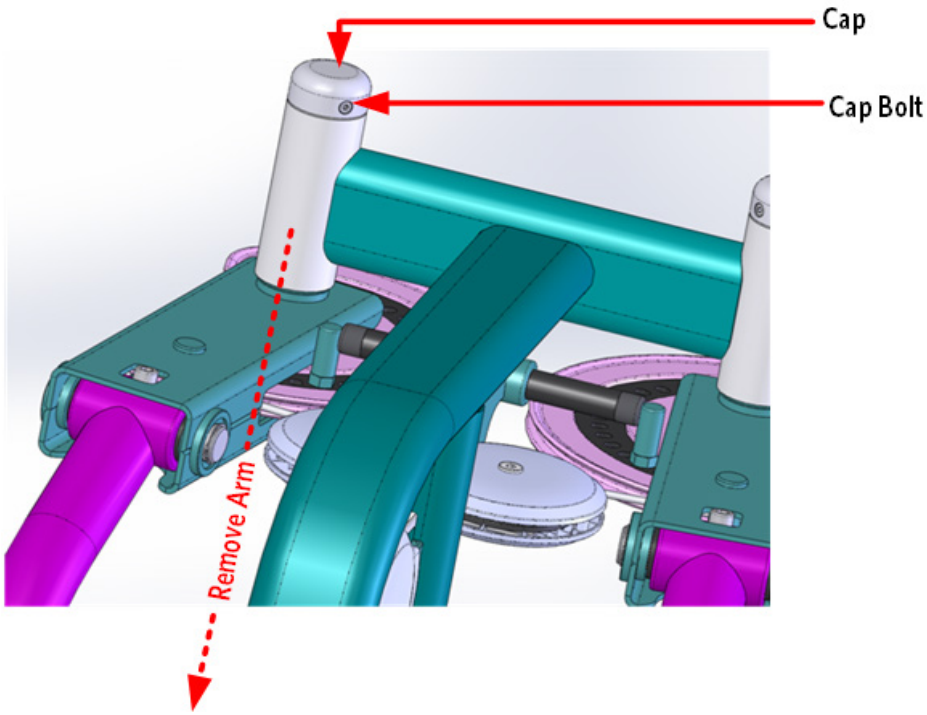
1. Fully read and understand all instructions prior to beginning installation.
2. Remove the e-clip that fastens the cable end to the arm cam. Remove the clevis pin to detach the cable. Pull the cable aside, out of the way. **See Diagram 5**.

Diagram 5



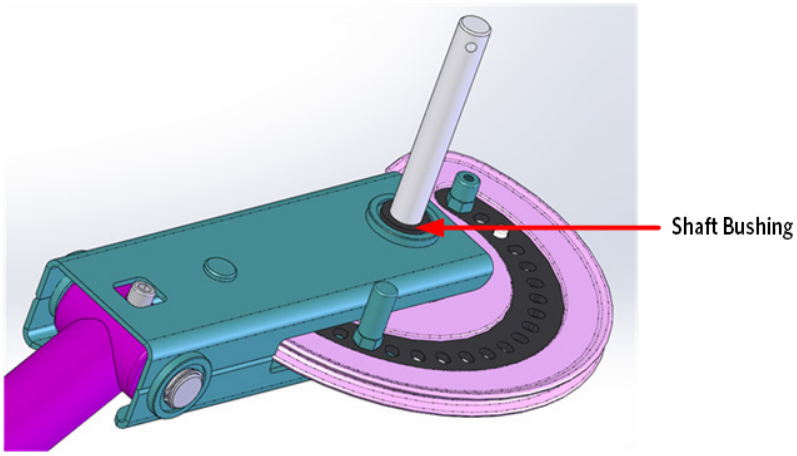
3. Using a 5/32" Allen drive wrench, remove the bolt holding the top shaft cap. **See Diagram 6**. Secure the arm while removing the bolt. Set the bolt and cap aside, then slide the arm down to remove it from the machine.

Diagram 6



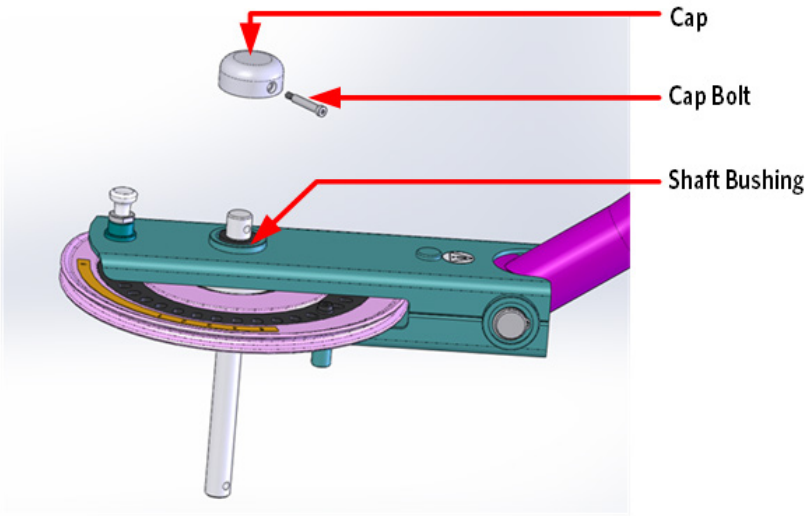
4. Use the Tri-Flow PTFE to lubricate around the shaft at the edge of the IGUS bushing flange. Rotate the shaft by hand to work the lubricant into the joint. **See Diagram 7**.

Diagram 7



5. Flip the arm assembly over and remove the bottom shaft cap using the same procedure that was used in step 3 to remove the top cap. Use the Tri-Flow PTFE to lubricate the shaft at the edge of the IGUS bushing flange. Rotate the shaft by hand to work the lubricant into the joint. **See Diagram 8**.

Diagram 8



6. Reinstall the arm in the machine. As the cap bolts are reinstalled, torque to 55 inch pounds or 4.5 foot pounds.
7. Repeat the Primary Pivot Lubrication Procedure for the other arm.
8. Check the machine for proper operation prior to placing back into service. This procedure may need to be periodically repeated as the lubrication wears off with machine us.