TECHNICAL BULLETIN

SEAKEEPER 7.5 LATCH MECHANISM INSPECTION

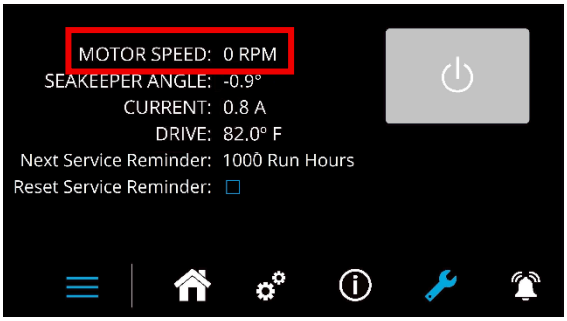
PRODUCT SEAKEEPER 7.5

PRECAUTIONS

1. PINCH HAZARDS EXISTS between latch pawl and gimbal shaft.

INITIAL CONDITIONS

1. **TURN OFF** high-current AC or DC breaker to Seakeeper motor.
2. **ENSURE** DC control power breaker ON.
3. **ENSURE** motor speed at zero RPM on Service Screen of MFD app.



Service screen shown with motor speed highlighted

4. **WHEN** in contact with latch mechanism, **WEAR** leather gloves and eye protection.
5. **OBTAIN** following tools and materials:
   - Flashlight
   - Inspection mirror
   - Lint-free rags
   - Torque wrench, ¼” drive, 200 in-lbs (22.6 Nm)
   - Torque wrench, 3/8” drive, 100 ft-lb (135 Nm)
   - 8 mm Allen hex
   - 13 mm socket

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PROCEDURE

1. **ACTIVATE** brake override as follows:
    a. **PRESS AND HOLD** wrench icon until override screen appears.
    b. **PRESS** box beside brake override to activate.
    c. **MAINTAIN** override screen on MFD app for next steps.
2. **REMOVE** Seakeeper top cover.
3. **VISUALLY INSPECT** latch mechanism and gimbal shaft:
    - **ENSURE** latch mechanism, gimbal shaft pockets, and solenoid housing clean and free of debris, corrosion, or foreign objects.
    - **INSPECT** gimbal shaft pockets free of debris, wear, and damage.
4. **MANUALLY PRECESS** enclosure fully forward or backward.
5. **DEACTIVATE** brake override.
6. **ENSURE** compression spring inserts latch pawl fully into gimbal pocket.
7. **ACTIVATE** brake override.
8. **MANUALLY PRECESS** enclosure fully in opposite direction.
9. **DEACTIVATE** brake override.
10. **ENSURE** compression spring inserts latch pawl fully into gimbal pocket.

NOTE:

Latch mechanism should cycle freely without sticking, grinding, or resistance.

DANGER:

PINCHING HAZARD EXISTS between pawl and gimbal shaft.

11. **MANUALLY EXERCISE** latch pawl to ensure it operates smoothly.

12. **CONFIRM** mounting hardware torque:

    a. Screw A = **55 ft-lbs** (**74.6 Nm**)

    b. Screw B = **25 ft-lbs** (**33.9 Nm**)

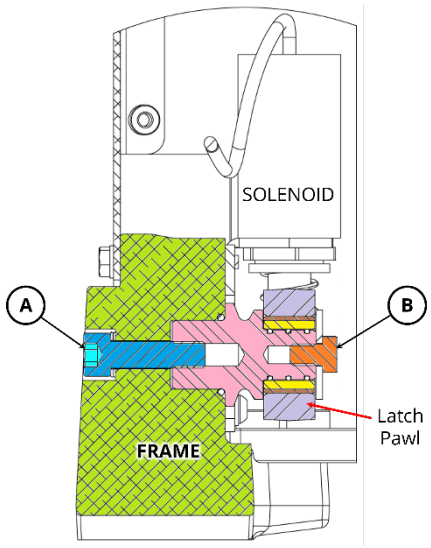
13. **IF** issues found with Seakeeper 7.5 latch test, **THEN:**

    a. **LOOSEN** screws of non-brake side (NBS) gimbal shaft.

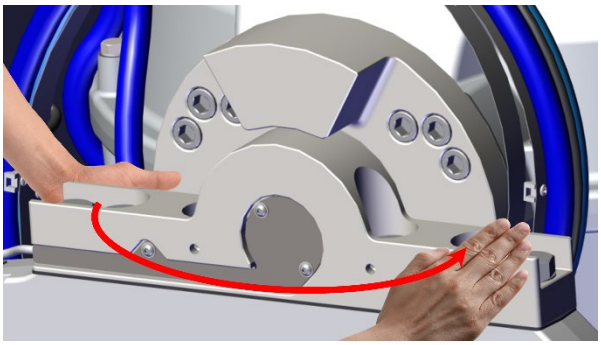
    b. **ROTATE** NBS gimbal shaft counterclockwise in horizontal plane.

    c. **TORQUE** NBS gimbal shaft screws to **150 ft-lbs** (**203 Nm**).

    d. **RETEST** latch mechanism.



Latch cut-away view



Rotating NBS gimbal shaft