

SEAKEEPER SOLENOID COIL REPLACEMENT - 130



PRODUCT ALL SEAKEEPER SERIES MODELS

SUMMARY

To provide guidance in the replacement of hydraulic brake solenoid coils of Seakeeper Series models.

BACKGROUND

Seakeeper Series stabilizers use a hydraulic brake system employing solenoid valves to lock and unlock the enclosure sphere to prevent or allow flywheel precession. The solenoids are activated by a DC coil that does not penetrate the pressure envelope of the system. The coils are held onto the solenoid valve cores by a threaded knurled cap. Each coil connects to the Seakeeper wire harness to receive 12 or 24 VDC power and to ground through the GCM.

REFERENCES

Associated model brake manifold drawing (available on [Dealer Access](#) site)

PRECAUTIONS

1. **PERSONNEL INJURY MAY RESULT** if Seakeeper is NOT locked and at zero RPM before removing covers or accessing unit for service.
2. **PERSONNEL INJURY MAY RESULT** if attempting to perform maintenance on Seakeeper without removing flywheel motor power and applying lockouts due to remote start capabilities.
3. **PERSONNEL BURN HAZARD EXISTS** when solenoid coils activated for any length of time.

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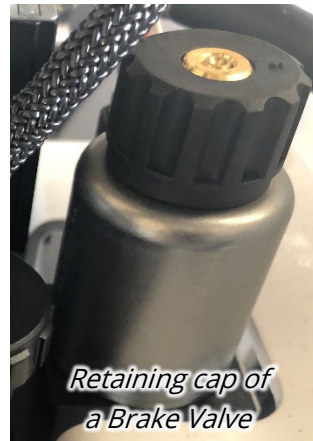
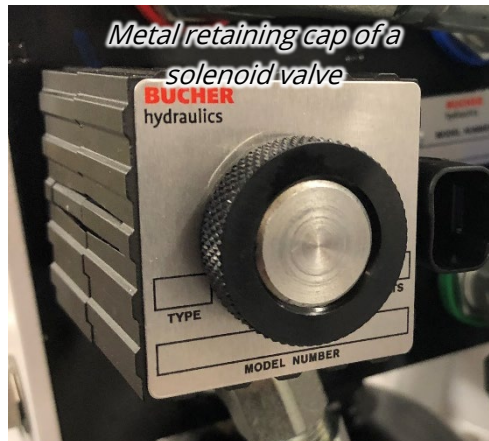
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PROCEDURE

1. **ENSURE** flywheel at zero RPM at display/MFD app.
2. **ENSURE** AC or high current DC breaker OPEN/OFF before performing maintenance.
3. **REMOVE** panel(s) as necessary to access brake manifold.
4. **DISCONNECT** wire harness connector of affected solenoid coil as indicated by wire harness labeling.



5. **REMOVE** coil knurled retaining cap.



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NOTE:

Some coils are equipped with a two-part heat sink around coil that can be removed after removing coil from solenoid core, as shown below.

- 6. **REMOVE** coil from solenoid core.
- 7. **INSTALL** replacement coil over solenoid valve core.
- 8. **INSTALL** knurled retaining cap hand tight.
- 9. **RECONNECT** wire harness connector to replacement coil.
- 10. **CYCLE** low current DC power to Seakeeper.
- 11. **CLEAR** any alarm that may appear at display/MFD app.
- 12. **DISPOSE** of replaced coils.



***** **END** *****

REVISION	DESCRIPTION	APPROVAL	DATE
1	Initial Release	A Patricio	17AUG2022