

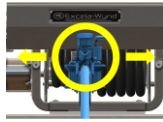


ME9000-MHK MOTOR / GEAR SERVICE KIT INSTRUCTIONS for ME9000LH-17/25 EXCELA-WYND™ HOSE REEL



BEFORE SERVICING THE EXCELA-WYND™ HOSE REEL PLEASE READ THESE IMPORTANT SAFETY WARNINGS

WARNING! Risk of injury from pinch points – Keep hands and fingers away from hose guide.



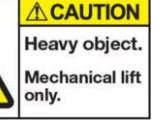
WARNING! Risk of injury from pinch points – Do Not operate reel without gear and chain guards in place.



WARNING! Risk of injury from pinch / sever points – Keep fingers away from inlet flange.



WARNING! - Risk of injury - The hose reel is very heavy. Use a suitable mechanical hoist or crane to lift, move and set reel.



WARNING! - Risk of injury - Disconnect power and relieve system pressure prior to servicing reel and controller.



WARNING! This product contains a chemical known to the state of California to cause cancer and birth defects or reproductive harm.



WARNING! - Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death. MEC equipment shall be installed, operated and maintained in accordance with federal, state and local codes, and manufacturer's instructions. The installation in most states shall also comply with NFPA No. 58 and ANSI/CGA-2.1. Only personnel trained in the proper procedures, codes, standards and regulations of the LP-Gas industry should install and service this equipment. Installation or service inconsistent with these instructions may damage the reel, increase the risk of injury or void the warranty.

These instruction cover ME9000-MHK Motor Kit and ME9000-MGK Motor Gear Kit installation.

- The ME9000LH-17/25 Excelsa-Wynd hose reel must always be powered by a BASE Engineering VSC9000 variable speed controller.
- An anti-seize compound must be applied to the external threads of all fasteners when installing or servicing the hose reel. MEC recommends using a Nickel-based (copper-free) anti-seize compound.
- MEC recommends using a high-quality lithium grease, such as Mystik® Lubricants JT-6® high temp #2, or equivalent.

TOOLS REQUIRED:

- 1/2" Ratchet wrench
- 9/16" Socket, ratchet wrench and extension
- 1/8" Hex wrench (Allen key)
- 2" Socket or screw driver
- (2) 7/16" Wrenches

REMOVE THE GEAR GUARD

1. For Gear Guards secured by Bolts:

- a. Using a 9/16" socket, remove the (2) bolts securing the gear guard and retain the lock washers
- b. Slide the gear guard up and off the reel.

For Gear Guards secured by Locknuts:

- a. Using a 9/16" socket, loosen the (2) locknuts securing the gear guard 2 to 3 turns, but don't remove them.
- b. Slide the gear guard up and off the reel.

For ME9000-MGK Motor Gear Kit, skip to step 5. (Do not remove Junction Box.)

REMOVE JUNCTION BOX

2. Using a 2" socket or the shank of a screwdriver, loosen and remove the junction box cover.
3. Disconnect motor leads and remove Boot from motor leads.
4. Disconnect conduit and wiring from Junction Box and remove Junction Box from motor.

REMOVE THE MOTOR

5. Support the weight of the motor with approximately 3-3/4" blocks or shims.
6. Using a 9/16" socket, remove the (4) locknuts and (4) washers.
7. Lift the motor up and out of the motor plate.
8. Remove the (4) motor mounting carriage bolts.



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REMOVE MOTOR GEAR

9. Mark the position of the gear hub on the motor shaft.
10. Using an 1/8" hex wrench, loosen the set screw on the motor gear.
11. Remove motor gear and Woodruff key.

INSTALL MOTOR GEAR

12. Apply anti-seize to the motor shaft and keyway and install Woodruff key and Motor Gear, positioned where marked in step 9, and tighten set screw securely.

INSTALL MOTOR

13. Install (4) motor mounting bolts and apply anti-seize to threads.
14. Install the motor in the motor plate so the motor gear is engaged with the drive gear segments and rest motor housing on the (2) adjustment bolts.
15. Install the (4) new washers and (4) new locknuts and snug nuts firmly to hold motor against motor plate, but don't fully tighten them.

ADJUST MOTOR GEAR

16. If necessary, adjust the position of the motor gear on the motor shaft so the tooth face of motor gear overhangs both sides of the drive gear segments.

- Note:**
- a. For proper operation and to prevent premature wear, there must be a very small amount of clearance, or "lash" between the gears when the spool is rotated all the way around.
 - b. Gear mesh must be checked, and may need to be adjusted, following removal and reinstallation for painting.

17. To set the gear lash between the motor and segment gear teeth:
 - a. Manually rotate the reel spool back and forth very slightly, listening for contact between the motor and segment gear teeth.
 - b. Repeat this process in four positions of spool rotation roughly 90° apart.
 - c. If there is excessive rotation between gear teeth contact, the motor height must be lowered:
 - i. Using a 7/16" wrench, loosen both jam nuts on the adjustment screws.
 - ii. Using a 7/16" wrench, adjust the motor height down by evenly turning both adjustment screws counter-clockwise.
 - iii. Tap the motor with a rubber mallet or dead-blow hammer into position, keeping the motor level during adjustment.
 - d. If there isn't a small amount of clearance between the gears when rotating the spool a full revolution, the motor must be raised.
 - e. Once the gear lash is set, tighten the jam nuts on the adjustment screws and tighten motor mount locknuts securely.
 - f. Check gear lash while rotating spool a full revolution (using same procedure in 17a and 17b of this section) and readjust, if necessary.
 - g. Gear mesh adjustment is complete when all four motor mounting nuts are tightened securely and there is a very small clearance between the gears as the spool rotates all the way around.

REINSTALL JUNCTION BOX AND GEAR GUARD

18. Apply thread sealant to NPT lead port threads on motor, install junction box and align conduit opening as desired.
19. Install boot on motor leads and press firmly in place.
20. If necessary, relocate port plugs using 1/2" drive ratchet wrench. Apply thread sealant and reinstall port plugs securely.
21. Install wire conduit and make electrical connections.
22. Replace the junction box cover and tighten securely.
23. Replace Gear Guard
 - a. **For Gear Guards secured by Bolts:** Install bolts and lock washers and tighten securely.
 - b. **For Gear Guards secured by Locknuts:** Tighten locknuts securely.

Use the camera on your smart phone or device to scan the following QR codes to access additional instructions and videos.

