

Instruction Manual for LT Series Harmonic Servo Gearhead

Inspection and Preparation

Upon delivery of your gearhead, confirm that you received the correct model that appears on your purchase order.

Check to ensure the motor shaft size and input shaft bore are matched.
Inspect the gearhead for shipping damage. If any is present, notify the shipping agent immediately.

Clean and de-grease the motor mounting surface, shaft, gearhead mounting surface, and input hub bore. (Fig. 1)

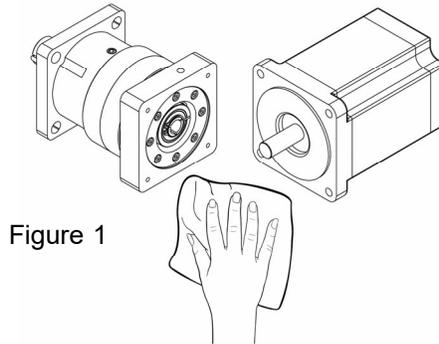


Figure 1

Operation Notes

- Avoid use in wet or corrosive areas, unless the gearhead is rated for those environments.
- Ambient temperature around the gearhead should be in the range of 90°C to -40°C to prevent damage to the unit.
- Ensure that the motor speed and torque loads do not exceed the maximums specified for the given unit.
- Do not disassemble or modify the gearhead, to prevent injury or damage the gearhead.
- The gearhead is sealed and pre-lubricated for its lifetime with an appropriate grease and does not require a change of lubricant.
- Depending on environment and application, the gearhead temperature can increase to levels that may cause injury if touched. Do not touch the gearhead directly during operation or immediately after operation.

Mounting Instructions

- 1) Remove access hole plug from the motor adapter. (Fig. 2)
- 2) Rotate the clamping collar until the tightening screw is lined up with the access hole.
- 3) Remove motor key and insert a balance key if necessary.
- 4) Insert the motor shaft into the gearhead input hub, with the motor shaft keyway (if present) aligned with the gearhead input shaft clamp opening. Be sure to align the collet gap over the flat and the set collar perpendicular to the flat. (Fig 3)
- 5) Install the mounting screws to ensure alignment of motor to gearhead. Tighten the mounting screws in a cross pattern to 5% of the required torque for the mounting screws. If possible, mount motor to gearhead in vertical position (Fig. 4)
- 6) Tighten collar on the input shaft and reinstall access hole plug. Refer to torque specifications from the following table and tighten to the given torque specifications. (Fig 5)

Clamp Bolt Size	Tightening Torque	
	Nm	in lbs
M3	2.5	22.0
M4	5.9	51.8
M5	12.0	106.2
M6	20.0	177.0

- 7) Tighten the mounting screws (Fig 4) to their required torque.

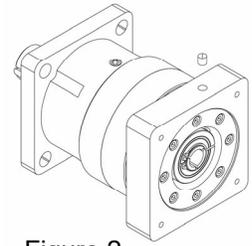


Figure 2

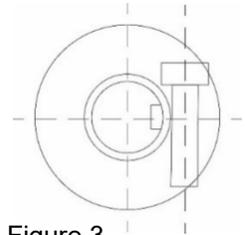


Figure 3

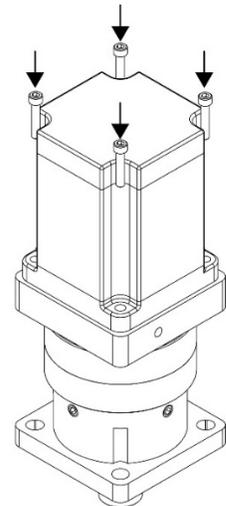


Figure 4

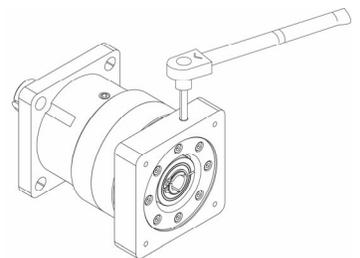


Figure 5