



Johnson-Promident

618 Corporate Way Unit 1 Valley Cottage, NY 10989 info@johnsonpromident.com

Phone: 845-589-0210 Fax: 845-589-0211

Operation and Maintenance Instructions

Please read and follow these simple instructions so that you may enjoy years of dependable service.

JP TCL/STIT3 & TCL5K/STIT3-5K – T-type Motor (replacement for Star Titan)

Technical Facts



TCL/STIT3: T-Type Motor

Maximum rpm: 0-20,000 min⁻¹

Attachment: accepts all Star Titan attachments

TCL5K/STIT3-5K: T-type Motor

Maximum rpm: 0-5,000 min⁻¹

Attachment: accepts all Star Titan attachments

Air Requirements: Clean filtered moisture free air with recommended pressure of 30- 45 psi. **Do not exceed 60 psi.**

Operation Instructions

The Swivel style (STIT3/STIT3-5K) motor is designed to fit onto Star slow speed quick disconnect swivel couplers. Simply firmly press motor onto swivel until the coupler firmly clicks into place. The motor can be removed with a firm pull off of the coupler. The T-type (TCL/TCL5K) motor is designed to attach to standard dental tubing with (Midwest) 4-hole connectors, with or without coolant or chip air holes. Be sure the silicone (sterilizable) gasket on the connector of the motor is in place. Attach and finger-tighten the tubing connector securely. **DO NOT USE A WRENCH.**

Air Supply Requirements

Clean, filtered air is essential for long, trouble-free life. An air filter NO LARGER THAN 50 MICRONS is recommended to be installed in the supply line. Recommended air pressure for optimum performance is 35 psi (2.5 kg/cm²), measured at handpiece tubing end.

Operation

Engage motor by applying pressure to the foot control. Note: Motor speed may be varied during a procedure by the foot control. However, reducing the speed will also reduce the torque output of the motor.

Connect and disconnect attachments from T-type motor:

Connect: To connect attachments to handpiece, slide the spring loaded ring back on the attachment and place onto motor. Allow the ring to spring back into place clipping the attachment onto the motor.

Disconnet: The motor must not be moving before disconnecting the attachment. Slide back the spring loaded ring on the attachment and pull off the attachment from the motor.

Cleaning and Care



Your Johnson-Promident slow speed motor is a high quality precision instrument. Incorrect maintenance and care can shorten the life of this product. We recommend for motor cleaning and maintenance original Johnson-Promident DCL-90.

External Cleaning

Remove angle or attachment from motor and disconnect from hose and clean the external surface thoroughly with a sponge or gauze using warm tap water. DO NOT IMMERSE INSTRUMENT. Wipe dry with a clean cloth.

Clean Internal Surface

Although the motor does not require daily lubrication, under normal operating conditions, particulate from the air supply and environment will build up in the motor. Using a motor cleaner or combination cleaner/lubricant like Johnson-Promident DCL-90 spray into the drive air tube. Run motor on air source for 30 seconds so that all excess fluid is expelled. This ensures all internal parts of motor are completely cleaned.



Weekly: We recommend this procedure routinely for maximum operating efficiency and longevity. If the motor becomes sluggish, this procedure should be used.

Sterilization



Place motor into autoclave bag or pouch. Cycle per autoclave/chemiclave manufacturers' instructions. DO NOT EXCEED 275° F (29 psi)/ 135°C (2 bar).

CAUTION



DON'T immerse instrument in water or use ultrasonic cleaner.
DON'T use any type of disinfectant, chemical or soap on instrument. Use of chlorine products, aldehydes, etc. will damage handpiece and void all warranties.
DON'T operate motor while inserting or removing attachments
DON'T exceed 275° F (29 psi)/ 135°C (2 bar) in autoclave.
DON'T dry heat or heat transfer sterilize.

Problem Solution

Motor sluggish – Check air pressure. Ensure low speed or low power gasket is in place. Clean per cleaning instructions. Repeat up to 3 times if necessary.
Motor will not turn on – Check air pressure. Ensure air leak at connector gasket is in place. Tighten tubing connector. Check for faulty or missing gasket.

Product Warranty

The T-type motor is warranted to be free from defects in materials and workmanship for a period of six months from date of purchase. This warranty applies only if the product has been used and maintained per these instructions. Sole liability under this warranty is limited to the repair or replacement, at our option, of the defective product. No other warranties are expressed or implied. Any defective product must be returned to Johnson-Promident with proof of purchase.



Johnson-Promident