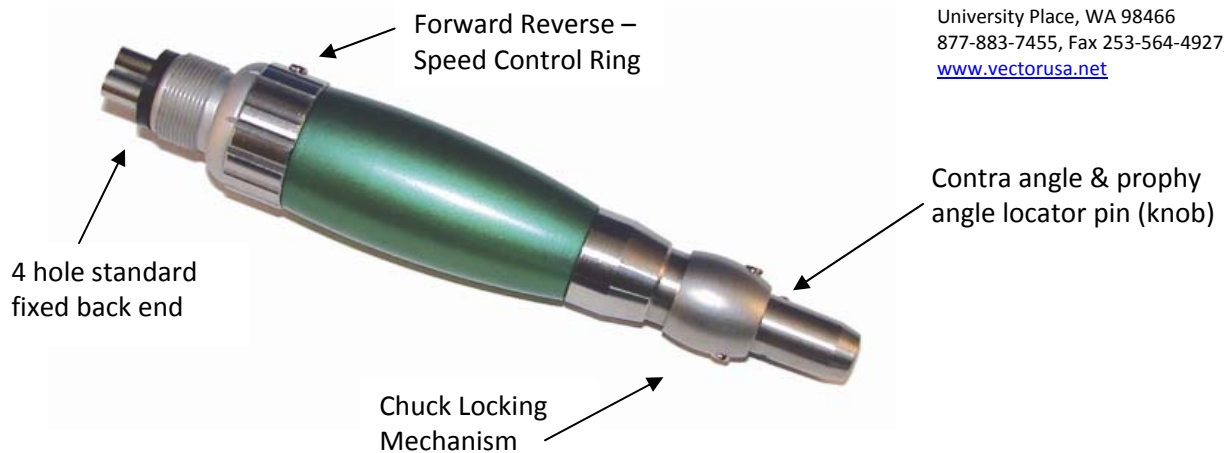


# Ergo-Torque Lowspeed Handpiece

Distributed By: Vector R & D Inc.  
6824 19<sup>th</sup> St. #230  
University Place, WA 98466  
877-883-7455, Fax 253-564-4927,  
[www.vectorusa.net](http://www.vectorusa.net)



ERGO Torque – Lowspeed Handpiece

Operation and maintenance instructions: The ERGO Torque is designed for use with disposable prophy angles, autoclavable prophy angles or contra angles with standard doriot style attachment. Caution do not use non-sealed re-usable prophy angles. Standard 3/32" shaft straight handpiece burs may also be used in the ERGO Torque lowspeed.

Cleaning and sterilization: The FDA recommends that reusable handpieces be cleaned and heat sterilized between patients.

#### Caution:

- Do not exceed 275 degrees F (135 degrees C).
- Do not submerge in any solution.
- Do not use ultrasonic cleaners.
- Do not use surface disinfectants.
- Proper maintenance of and periodic validation of sterilizer function and temperature is important for proper maintenance of the ERGO Torque and other dental handpieces.
- Failure to follow these instructions can result in hazard of infection.
- Failure to follow proper infection control guidelines, manufacturer's guidelines or both when disposing of accessory items or cleaning materials may result in hazard to environment.

Note: Periodically lubricate nose cone (where the bur goes) to remove derbies or paste and that may accumulate over time.

#### To Sterilize:

1. Ensure that the prophy head, contra angle attachment or bur has been removed.
2. Clean the exterior of the handpiece with a 2x2 soaked in ALCOHOL only to remove any derbies or paste.
3. Lubricate following the procedure listed under maintenance.
4. Place the handpiece in appropriate sterilization bag as recommended by the sterilizer manufacture. Sterilize by steam autoclave at 275° F (135° C) for 25 minutes.
5. Remove the bag from the sterilizer immediately after the cycle is complete and allow the handpiece to cool in the bag. Note running hot handpieces can cause internal damage to the motor.
6. Store the components in the bag until ready for use.

#### Maintenance:

Perform Lubrication prior to sterilization (USE OF VECTOR SPRAY DOES NOT REQUIRE RE-LUBRICATION AFTER STEAM STERILIZATION USE OF ANY OTHER SPRAY MAY REQUIRE LUBRICATION BEFORE AND AFTER STERILIZATION)

1. Disconnect the air tubing connector.
2. Spray VECTOR spray into the smaller of the two large holes – count to 3 slowly.
3. Reconnect the air tubing connector and run the motor for approximately 10 seconds or until the motor runs smoothly. Do not operate the handpiece without a bur on angle securely locked in place.
4. Wipe any excess lubricant from the handpiece using a 2x2 soaked in ALCOHOL.

#### Installation:

The ERGO-Torque handpiece series is designed to attach to standard dental tubing with ISO-Standard 4-Hole connectors, with or without coolant or chip air holes. Be sure the rubber gasket on the connector of the motor is in place. Attach and finger tighten the tubing connector securely. **DO NOT USE A WRENCH.**

To install a contra angle or bur twist the chuck locking mechanism to the right, the ring will move toward the rear of the handpiece and snap into the open position with a click. Install the bur or contra angle and twist the chuck locking mechanism back to tighten the chuck. **IT IS NORMAL FOR THERE TO BE A LITTLE PLAY IN THE LOCKING RING.** Test the angle or bur to be sure it is securely locked in place, if the bur or angle is loose remove handpiece from service and send to certified service facility.

To remove the bur or contra angle, twist the chuck locking mechanism to the right, the ring will move toward the rear of the handpiece and snap into the open position with a click. **IT MAY BE NECESSARY TO PUSH IN THEN PULL OUT ON THE TOOL TO RELEASE THE SPRING IN THE CHUCK MECHANISM.**

#### Prophy Tool Selection:

##### CAUTION:

- Do not re-use polishers or brushes. This may compromise asepsis. Used polishers or brushes may deteriorate or fail during use.
- Prophy brushes do not seal the head and should be used for special applications only.
- Routine use of prophy brushes may damage the head and will void the warranty.
- The ERGO Torque Handpiece will accept regular Doriot style latch angles and straight burs.

#### 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 air supply line. Recommended air pressure is 35 PSI (241 kPA), measured at the handpiece tubing end. Maximum speed is approximately 5,000 RPM.

#### Troubleshooting

Problem	Solution
Motor sluggish, low speed or low power. Will not start at low air pressure.	Check Air pressure. Ensure gasket is in place. Clean per cleaning instructions. Repeat up to 3 times if necessary. Check forward reverse ring to insure ring is in the correct position. Re-new O-rings connector
Motor will not turn on.	Check air pressure. Ensure gasket is in place. Check forward reverse ring to insure ring is in the correct position. If it will not turn, the motor has been jammed by a foreign particle from the airline. Return for service.
Air leak at connector.	Tighten tubing connector. Check for faulty or missing gasket. Re-new O-rings.
Motor runs but does not turn angle.	Faulty angle. Try a new one. Only use standard prophy angles with a standard shaft size (2.35mm)
Angle vibrates or spins excessively	Faulty angle. Try a new one or another brand.

Note: If problems still occur after following these instructions or replacement parts is needed contact Vector R & D or your dental dealer. Product Warranty

The ERGO Torque is warranted to be free from defects in material and workmanship for a period of 6 months from the date of shipment. This warranty applies only if the product has been maintained per these instructions. The warranty will not apply if the product has been subject to misuse or abuse. Sole liability under this warranty is limited to the repair department, at the manufactures option, of the defective product. No warranties are expressed or implied. Any defective product must be returned to the address below with proof of purchase and transportation prepaid.

#### Manufactured for:

Vector R & D Inc.  
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University Place, WA 98466

Caution federal law (USA) restricts this device to sale or on order of a dentist  
MADE IN ISRAEL