

# IMPORTANT INSTRUCTIONS

## For Handpiece H.20 and H.20D

### *Before attaching this Handpiece please read these instructions.*

- Keep a 2.35mm (3/32") shank in the handpiece at all times, during operation and storage.
- Never turn collet release lever while flexible shaft is rotating. The release lever is not intended for use as a brake.

### For More Information

For more information on ForeDOM machines, handpieces, or accessories, contact your local dealer. When no local dealer is available, write: The ForeDOM Electric Company, 16 Stony Hill Road, Bethel, CT 06801, call (203) 792-8622, or visit our website at [www.foreDOM.com](http://www.foreDOM.com).

***Always wear proper eye protection while using this handpiece.***

Form 1264 n 11/06

Printed in U.S.A.

**Operation** This Quick Change handpiece has a unique lever action collet release mechanism for rapid accessory changes. Wait for the motor, flexible shaft and accessory to come to a complete stop before turning the lever to open collet and remove or insert a bur. ***Never turn collet release lever while flexible shaft is rotating! This can cause damage and extensive wear to the handpiece!***



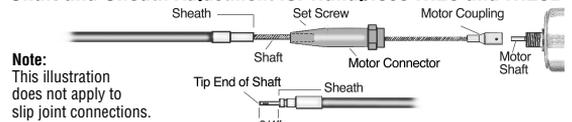
Turn lever 90° to left or right to open collet and release bur.

Center lever to close collet to secure bur.

**Maintenance and Lubrication** Bearings in handpieces H.20 & H.H.20D do not require any lubrication. Putting oil or grease into the front or back of these handpieces will damage their pre-lubricated ball bearings. The H.20D handpiece duplex connection should be lubricated approximately every 20 hours of use. Apply 2 drops of oil (p/n MS10005) in oil hole on rear of duplex connection.

Flexible Shaft Cleaning and Lubrication should be performed every 50 hours of use: Unscrew motor connector (left hand thread) and remove drive shaft. The flexible shaft should be thoroughly cleaned with a solvent. Apply a **light film** of ForeDOM grease (p/n MS10006) to entire length of inner shaft. Reconnect shaft (see shaft and sheath adjustment instructions on reverse) and sheath and run motor for a ten minutes before reconnecting handpiece. Turn off motor, wipe off excess grease from tip of drive shaft and reconnect to handpiece per instructions.

### Shaft and Sheath Adjustment for Handpiece H.20 and H.20D



It is important to check the sheath and shaft tip and properly adjust them before you attach this handpiece to your ForeDOM flexible shaft tool. The tip of the flexible shaft should extend 3/4" beyond the end of the sheath and no more than 7/8" or less than 5/8" (see above).

On ForeDOM machines with standard shaft and sheath, this adjustment is made by loosening the set screw in the motor connector and moving the sheath in or out while the motor and shaft/sheath assembly are fully extended and straight while hanging or on a flat surface. When the adjustment is correct, tighten the set screw in the motor connector.



### Attaching the Handpiece to the Flexible Shaft

Attach the handpiece by pushing it on the grooved QD (quick disconnect) fitting on the sheath. Be sure that the keyed tip of the flexible shaft is properly lined up with the slot in the handpiece shaft connector by looking into the rear of the handpiece before pushing it on. If it is not in line, turn the handpiece to the correct position.

### Replacement Collet

Instructions for replacing and adjusting the collet are on the reverse side. If a collet is damaged or needs replacement, order Collet HP3-1008 which includes special size hex key for installation.

### LIMITED WARRANTY

ForeDOM® warrants its product to be free of defects in material or workmanship for a period of 90 days after purchase. During the warranty period, the defective product will be repaired or replaced without charge or, at our option, the purchase price will be refunded. This warranty does not cover damage caused in transit or by accident, misuse, or ordinary wear.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING 90 DAYS FROM DATE OF PURCHASE, AND WE WILL NOT BE LIABLE OR RESPONSIBLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES. Repair or replacement will be made at our option if the product is returned post-paid to:

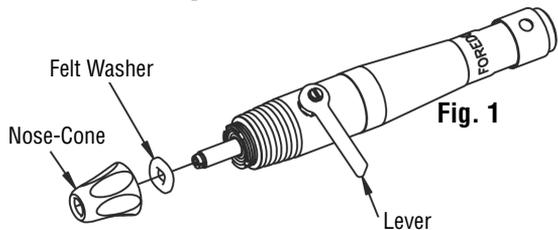
The ForeDOM Electric Company  
16 Stony Hill Road, Bethel CT 06801

All warranty repairs must be done at the factory at the address above. We will not pay any shipping or transportation charges. This warranty covers the original purchaser of the product only. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

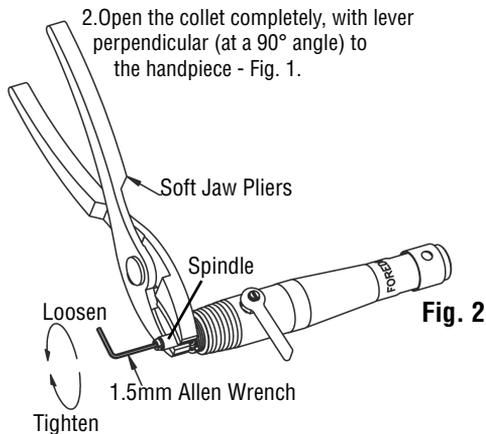
### Repair Service

Factory repairs are done promptly and at reasonable cost. If you wish, you can send your equipment directly to the factory marked: "Attention: Service Department". Be sure to give your street address, daytime phone number and /or email address. Include a brief note describing the problem with the equipment. Estimates will be made upon request.

# H.20 Handpiece Collet (P/N HP3-1008) Replacement and Adjustment

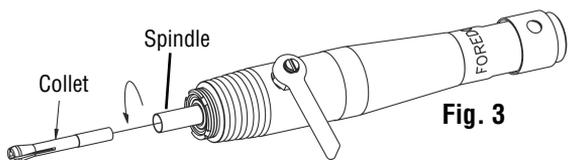


1. Un-screw and remove nose-cone and felt washer - Fig. 1.

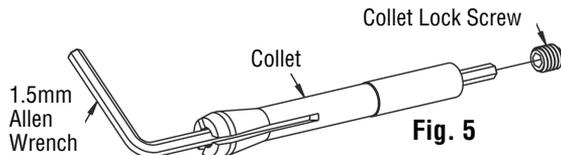
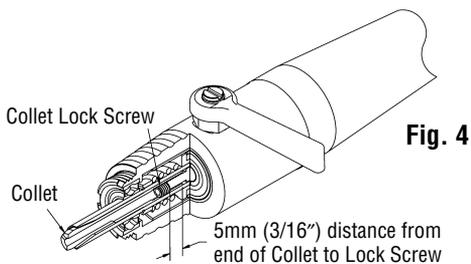


2. Open the collet completely, with lever perpendicular (at a 90° angle) to the handpiece - Fig. 1.

3. Insert a 1.5mm Allen wrench (supplied with new handpiece collet) into the collet lock screw, and grip the exposed spindle using soft-jaw pliers. Turn the Allen wrench counter-clockwise 1/4 turn to loosen the collet lock screw - Fig. 2.



4. For collet adjustment procedure, proceed to Step 7. To replace the collet, or to remove it for cleaning, un-thread the collet completely by turning it counter-clockwise - Fig. 3.

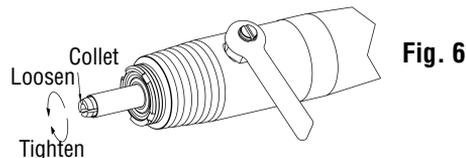


5. When re-installing a collet or installing a new collet, the collet lock screw must be in the collet before you screw the collet into the spindle - Fig. 5. The collet lock screw must be threaded into the collet to a depth of approximately 5mm, (3/16") from the back-end of the collet - Fig. 4.

6. Check to insure that the collet release lever is in the fully opened position - Fig. 1. Screw the collet into the spindle while gripping the exposed spindle with your fingers. Do not screw the collet in too far. (Do not close the three slots in the collet.)

## 7. Collet Adjustment Procedure:

Insert a bur with a 2.35mm shank into the collet. If the bur does not enter the collet, un-screw the collet counter-clockwise until the bur fits in freely, and re-insert the bur. The collet tension is adjusted by rotating the collet clockwise to tighten, and counter-clockwise to loosen - Fig. 6. The collet is adjusted properly when a SLIGHT resistance is felt when moving the bur in and out with the collet release lever in the fully opened position. Next, grip the spindle with the soft-jaw pliers, and tighten the collet lock screw securely with the Allen Wrench - Fig. 2.



8. Insert a 2.35mm shank bur into the collet, and close the collet release lever. Using a cloth to protect your fingers, try to pull the bur out to test the collet's holding strength - Fig. 7. If you can remove the bur by hand, the collet is too loose. If the collet is too loose, loosen the collet lock screw, refer to **Collet Adjustment Procedure** above and re-adjust the collet until the bur cannot be removed with the collet closed.

9. Re-install the felt washer, and the nose-cone.

