

# IMPORTANT INSTRUCTIONS

## For Foredom® Handpieces H.20, H.20D, and H.20SJ

**Collet Replacement Adjustment for Foredom H.20, H.20D, and H.20SJ Handpieces**  
Pliers required. 1.5mm hex key included.

**Please read instructions before attaching this handpiece.**

### Replacement Collet

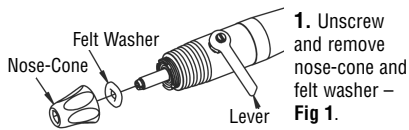
Instructions for replacing and adjusting the collet are on the reverse side. If a collet is damaged or needs replacement, order Collet HP3-1008 which includes special size hex key for installation.

### 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. The equipment should be accompanied by a brief note describing the problem with the equipment. Estimates will be made upon request.

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

Fig. 1



1. Unscrew 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.

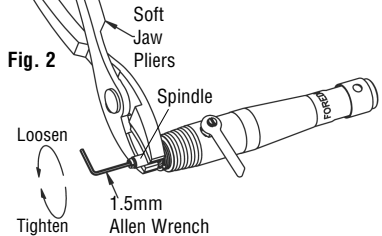


Fig. 2

3. Insert 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 counterclockwise 1/4 turn to loosen the collet lock screw – Fig. 2.

**Keep a 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** on Foredom machines, handpieces, or accessories, contact your local dealer. When no local dealer is available, visit our website at [www.foredom.com](http://www.foredom.com). You can write to us at: The Foredom Electric Company, 16 Stony Hill Road, Bethel, CT USA 06801 or call (203) 792-8622.

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

Form 1264 n 7/09

Printed in USA

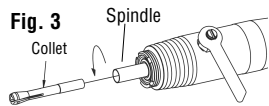


Fig. 3

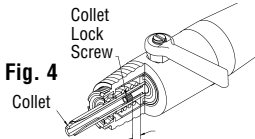


Fig. 4

5mm (3/16") distance from end of Collet to Lock Screw

4. For collet adjustment procedure, proceed to Step 7. To replace the collet, or to remove it for cleaning, unthread the collet completely by turning it counterclockwise – Fig. 3.

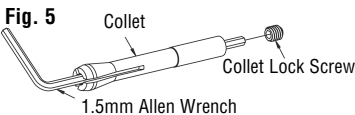
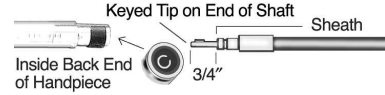


Fig. 5

5. When reinstalling 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.

**Adjust the Shaft and Sheath** It is important to check the sheath and shaft tip and properly adjust them before attaching this handpiece to your Foredom flex shaft tool. The tip of the flexible shaft should extend 3/4" beyond the end of the sheath. Make this adjustment by loosening the set screw in the motor connector and moving the sheath in or out while the motor and shaft/sheath are hanging fully extended or laying on a flat surface. When the shaft is adjusted correctly, tighten the set screw in the motor connector. **Always make sure your power tool**

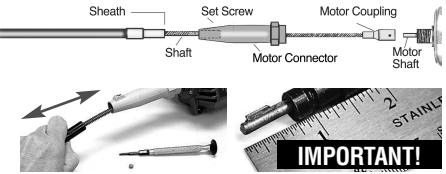


**is unplugged during any maintenance procedure.**

**Maintenance and Lubrication** Bearings in these handpieces do not need lubrication. Putting oil or grease into the front or back of these handpieces will damage their pre-lubricated ball bearings. The H.20D duplex handpiece 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 done 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 above) and sheath and run motor for ten minutes before reconnecting handpiece. Turn off motor, wipe off excess grease from tip of drive shaft and reconnect to handpiece per instructions.

**Note:** Shaft and sheath connection instructions do not apply to H.20SJ slip joint handpieces for use with European style motors.



**Attach H.20 or H.20D Handpiece to Standard Flexible Shaft** The handpiece is easy to remove from the flexible shaft. To **remove**, simply pull the handpiece off the shaft and sheath with a firm grip. To **re-attach**, look into the back end of the handpiece for the keyway. Be sure that the key tip of the flexible shaft is properly lined up with the keyway slot in the back end of the handpiece and push it on. If it is not in line, turn the shaft tip or the handpiece to the correct position.

**Operation** This Quick Change handpiece has a unique lever action for collet release to make 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 and secure bur

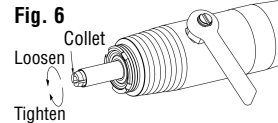
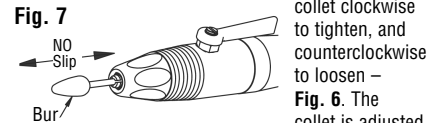


Fig. 6

6. Check to insure that the collet release lever is in the fully open 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 counterclockwise until the bur fits in freely, and reinsert the bur. The collet tension is adjusted by rotating the



collet clockwise to tighten, and counterclockwise 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.

### LIMITED WARRANTY

Your Foredom Quick Change Handpiece is warranted against defective material and workmanship for a period of 90 days from date of purchase. Please return it to the factory for inspection and repair. The duplex connection is particularly susceptible to damage and is not covered by warranty. Replacement duplex springs are shipped with installation instructions. 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.