

IMPORTANT INSTRUCTIONS

7A and 7AD Handpieces

Before attaching this Handpiece please read these instructions.

See your Power Tool Owners Manual for complete instructions on use, care, and maintenance.

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. Or call (203) 792-8622.

ALWAYS WEAR PROPER EYE PROTECTION WHILE USING THIS HANDPIECE

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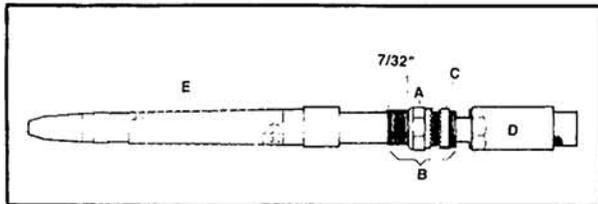


Fig. 2

- With Nut "A" in this position, slide the locking ring "C" up behind Nut "A" and then tighten part "D" (right hand thread) in position behind the locking ring by hand.
- Thread the front housing "E" back on to the threaded portion "B" and tighten by hand.
- Insert an accessory into handpiece and pull housing forward to tighten collet.
- Check the end play and rotation of the accessory. It should turn freely with minimal end play (forward/reverse movement).
- If necessary, increase (or reduce) end play by repeating steps 1 and 2 above, loosening part "D" and "C", and moving the Adjusting Nut "A" **one quarter (1/4) turn forward (or back). Do not rotate the Adjusting Nut "A" more than one quarter (1/4) turn in either direction before rechecking the end play and rotation of an accessory.**
- Repeat steps 4, 5, and 6 above.
- When the accessory turns freely with minimal end play securely tighten Part D and Nut A with two wrenches provided. Now, attach handpiece to flexible shaft and run at low to medium speed. Check for vibration and heat. Vibration can result from excess end play. Heat can be caused by too little end play.

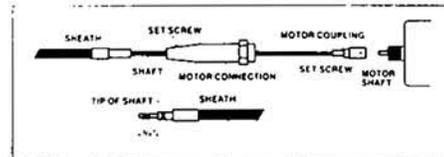
INSTRUCTIONS FOR HANDPIECES Nos. 7A and 7AD

Shaft and Sheath Adjustment

It is important to check the sheath and shaft tip and properly adjust them *before* you attach this handpiece to your Foredom flexible shaft power tool. The tip of the flexible shaft should extend $\frac{3}{4}$ " beyond the end of the sheath (see figure below) and no more than $\frac{7}{8}$ " or less than $\frac{5}{8}$ ".

On the Series CC, DD, MM, R, RB, RM, S, SB, and SM power tools 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 correct adjustment is made, tighten the set screw in the motor connector.

All Series EE, GG, and MMG units have a "floating" or self adjusting shaft which will ride up and down in the sheath and extend $\frac{3}{4}$ " or more. Check to see that the motor end of sheath is fully threaded and tightened into the motor connector.



Attaching Handpiece to 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 shaft tip or the handpiece to the correct position.

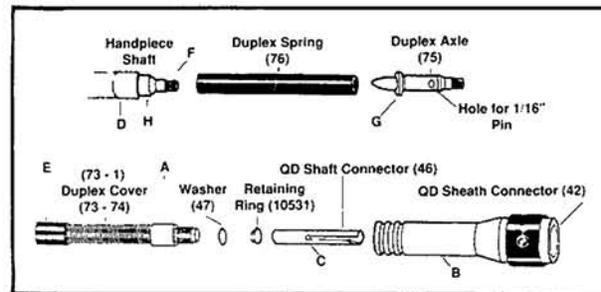


Fig. 3

Replacing Duplex Spring Connection

Caution: To avoid frequent breakage or kinking of springs, DO NOT subject this connection to unnecessarily sharp bends and DO NOT exert excessive pressure on work. Let high speed accomplish the desired result. Avoid jamming of burr, stone, drill or other cutting tool in a cavity, slot, groove or hole in workpiece.

- Remove handpiece from sheath. This can be done with a sharp pull.
- Unscrew the QD Sheath Connector (Part #42) from Duplex Cover Assembly, using two pairs of pliers at points A and B turning counterclockwise. This exposes the slotted Shaft Connector (Part #46).
- Insert a 1/16" pin through the hole in the Duplex Axle (shown on Part #75). Holding pin, unscrew Shaft Connector (Part #46) from axle, using a pair of pliers at point C turning counterclockwise.

Maintenance and Lubrication (See Fig. 1)

Clean and lubricate approximately every 20 hours of use.

1. Unscrew (right hand thread) front housing HP8081 to expose inner spindle using supplied open end wrench at point indicated in illustration. Do not loosen the rear locking ring and nut.

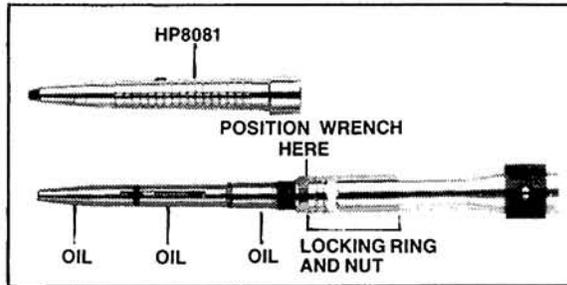


Fig. 1

2. Clean inner spindle and front housing with a degreasing solution or solvent. Wipe and dry thoroughly.
 3. Apply a few drops of very light oil (Foredom Part Nos. 10005 (hypodermic) or 10010 (2 oz. container along the length of the exposed spindle as indicated in the illustration).
 4. Screw front housing back on to thread and tighten while holding with wrench at point shown.
4. Remove Retaining Ring (Part #10531) from axle. Remove Washer (Part #47).
 5. Unscrew Duplex Cover (Part #73, #73-1 or #74) from handpiece using two pairs of pliers at points E and D, turning counterclockwise. This exposes the damaged Duplex Spring (Part #76).
 6. Using a narrow pair of pliers to hold Spindle on point F, take a second pair of pliers, hold damaged Spring and pull while turning counterclockwise to remove Spring.
To remove Axle from damaged Spring insert a 1/16" pin through crosshole in Axle. Using a pair of pliers remove Spring as in Step 6.
 7. To install new Spring:
Put the new Spring on the Duplex Axle first by pushing and turning it with the pliers counterclockwise. **Be sure that the Spring goes all the way to the shoulder of the Axle (Point G).**
 8. Holding the Spindle as described in Paragraph 6, install the Spring on the Spindle by pushing and turning it with the pliers counterclockwise. **Be sure that the Spring goes on all the way to the shoulder of the Spindle (Point H).**
 9. Lubrication:
 - A) Apply a light film of Foredom Grease #10006 to the new Duplex Spring.
 - B) Apply two drops of Foredom Oil #10005 to the Axle.
 10. Reassemble by reversing procedures in steps 2 through 5.
 11. Attach handpiece to flexible shaft and sheath being sure to align shaft tip with slot in handpiece shaft connector (Part #46). Run handpiece at low speed for one or two minutes to spread out grease and oil.

Sterilization Procedures

The following steps should be followed if the front housing needs to be sterilized:

- A) **Cleaning** — Unscrew the (right hand thread) front housing (Part #HP8081; see figure 1). Soak in a cleaning solution used for dental instruments. Wipe inner spindle clean with a cloth soaked with the cleaning solution *after* removing oil with a solvent.
- B) **Sterilization** — Use an autoclave to sterilize front housing. (If this is not possible, Poupinel or Chemiclave sterilizations can be used.)
- C) **Lubrication** — The handpiece should be lubricated and reassembled using Foredom oil as described in parts 3 and 4 in the maintenance and lubrication section.

The 7A and 7AD handpieces are not intended for use in surgical procedures or in operating room situations.

Readjusting Front Housing (See Fig. 2)

If the position of **Adjusting Nut "A"** in illustration below is changed while the handpiece is being disassembled for cleaning and lubrication or if the front housing requires readjustment to reduce or increase accessory end play, it is important to properly adjust and position this nut.

Adjustment of this nut "A" is critical to the operation of this handpiece and care must be taken to adjust it properly by following the steps below

1. Remove accessory from handpiece.
2. Unthread front housing "E" and remove. Loosen part "D" a few turns to free the locking ring "C", using wrench provided.
3. Adjust Nut "A" so that there is a distance of $7/32"$ (.218) from the front of the threaded portion "B" to the front of Nut "A" as shown in the illustration. (This dimension is a starting point and may need further adjusting.)

Lubrication of Duplex Connection

Approximately every 20 hours apply 2 drops of oil in oil hole on rear of duplex connection.

Handpiece Accessories and Spare Parts

The handpieces come with wrenches. If lost or damaged, they can be ordered from your dealer or the factory.

Wrenches Part No. HP10149

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 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 Rd., 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 only covers the original purchaser of the product. 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.