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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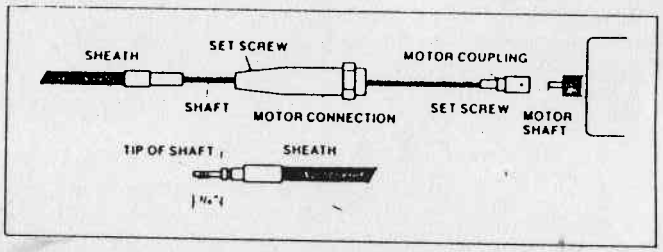
INSTRUCTIONS FOR HANDPIECES Nos. 7A and 7AD

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 3/4" beyond the end of the sheath (see figure below) and no more than 7/8" or less than 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 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.

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.

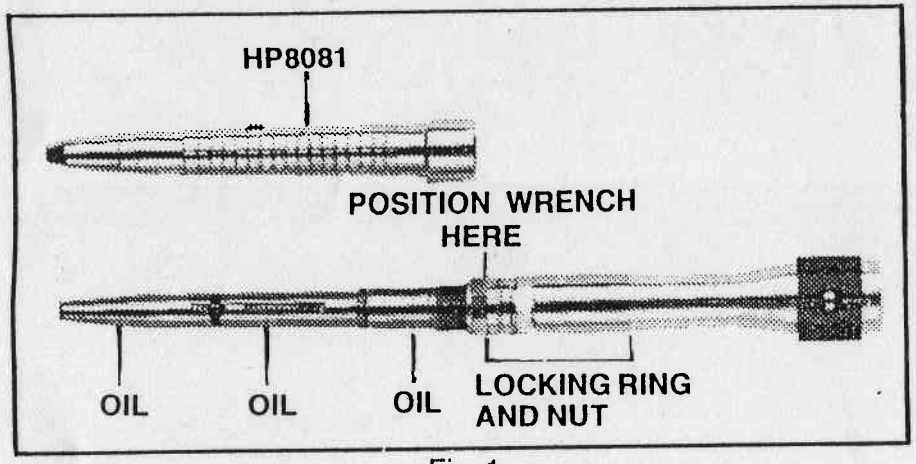


Fig. 1

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.

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.)

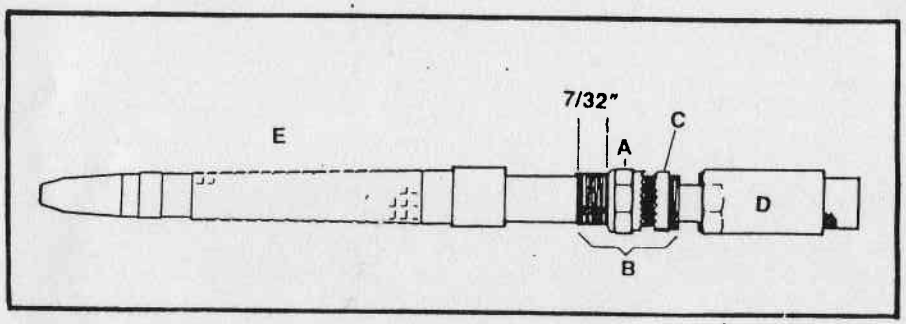


Fig. 2

4. 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.
5. Thread the front housing "E" back on to the threaded portion "B" and tighten by hand.
6. Insert an accessory into handpiece and pull housing forward to tighten collet.
7. Check the end play and rotation of the accessory. It should turn freely with minimal end play (forward/reverse movement).
8. 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.**
9. Repeat steps 4, 5, and 6 above.
10. 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.

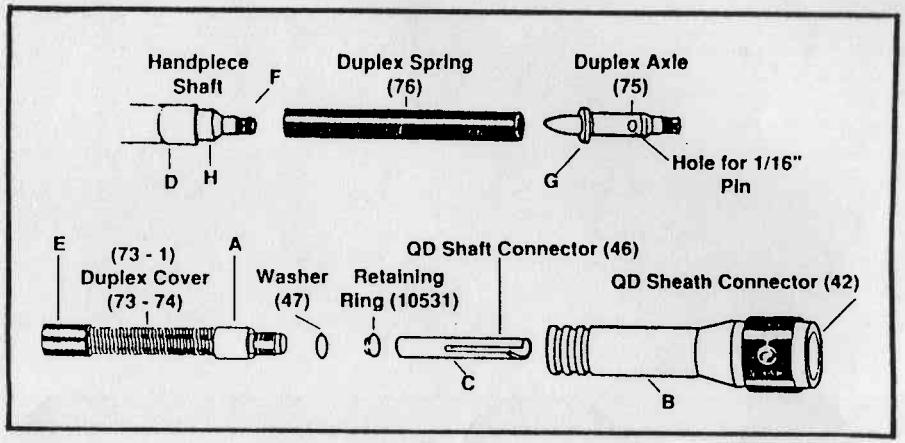


Fig. 3

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.

1. Remove handpiece from sheath. This can be done with a sharp pull.
2. 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).
3. 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.