

# FOREDOM®

## 10. Lubrication of Duplex Spring

- Apply a light film of Foredom Grease (MS10006) to the new duplex spring.
- Apply one drop of Foredom Oil (MS10005) to the axle.

11. Reassemble by reversing procedures in steps 2 through 5 on reverse.

12. Attach duplex spring adapter to handpiece on one end and flexible shaft and sheath on the other being sure to align each key tip within the slot of each shaft connector. Run at low speed for one or two minutes to spread out grease and oil.

Lubricants are available from your favorite Foredom dealer or [www.foredom.net](http://www.foredom.net)

### Part No. Description

MS10005	Foredom Motor & Handpiece Oil in hypodermic dispenser
MS10006	Foredom Flexible Shaft Grease in 1-oz. tube

*Always wear proper eye protection while using this handpiece. Wear safety glasses or a face shield whenever you operate a Foredom Flexible Shaft machine or any power tool to prevent serious eye injury.*

*See your power tool owner's manual for complete instructions on use and maintenance.*

*Before attaching this handpiece please read these instructions. They should always be followed to reduce the risk of personal injury or damage to the handpiece.*

*Always use a proper dust collection system or wear a respirator to prevent the inhalation of dust particles or other debris into the lungs.*

*Never wear open shoes or sandals when using a power tool. Use footwear that is tough enough to protect your feet from falling tools.*

*Keep both hands and fingers away from the cutting edge at all times.*

*Do not wear loose fitting clothing or jewelry. Loose clothing or jewelry can become entangled in the tool. Do not wear items such as neckties, necklaces, or bracelets when operating power tools.*

*Secure or tie back long hair.*

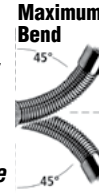
*Use both hands whenever possible to hold and guide the tool.*

*Avoid knots, imperfections in the wood or metal objects like nails, which could catch or damage the tool bit. Let the speed of the tool do the work.*

*Never use a damaged, bent, vibrating, or out of balance accessory.*

When using a Duplex Spring Adapter move the workpiece a bit further away from the motor to prevent sharp bends in the duplex spring.

**Caution: To avoid frequent breakage or kinking of springs, Do Not subject this connection to unnecessarily sharp bends of more than a 45° angle. Do Not exert excessive pressure on work, but let the speed of the tool do the work. Do NOT use the Duplex Spring Adapter with large buffs more than 1" in diameter, aggressive burs, or chisel handpieces.**



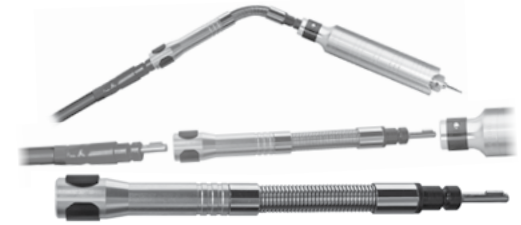
**Avoid jamming of bur, stone, drill, or other cutting tool in a cavity, slot, groove, or hole in workpiece.**

**HP775 Duplex Spring Adapter is not covered by a warranty.**

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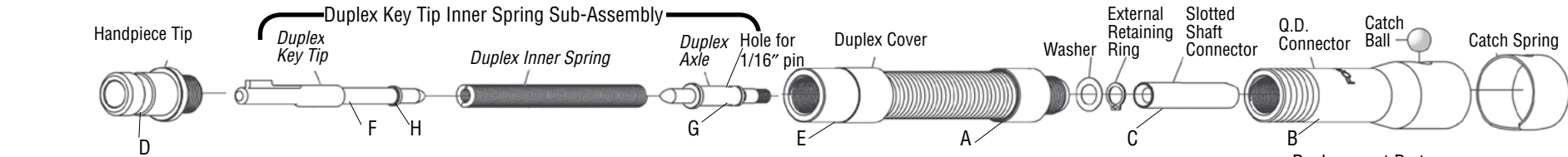


## FOREDOM® HP775 Duplex Spring Adapter

The Duplex Spring Adapter offers extra flexibility for intermittent light duty work. The spring drive is made of special steel, double wound, tubular construction with a protective flexible spring cover. It is an extension to a handpiece that easily connects between the back end of a handpiece and a flexible shaft. Remove the adapter for less delicate work.

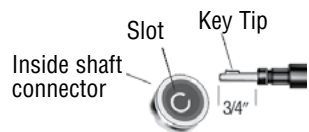
**Duplex Springs are subject to breakage and are not covered by warranty.** We recommend that only experienced users of flex shaft tools and/or those whose work demands added flexibility use the adapter.

**The duplex spring component requires periodic lubrication.**



## FOREDOM® Duplex Spring Adapter

Attach Duplex Spring Adapter to handpiece on one end, and flexible shafting on the other, being sure to align each key tip within the slot of each shaft connector.



### Directions for Replacing Duplex Springs:

**Read Carefully –Disassembly requires All Counterclockwise Turns.** You will need: 2 pair of pliers, 1/16" diameter pin, and a 3/16" open end wrench or needle nose pliers.

1. Remove handpiece adapter from both shaft and handpiece. This can be done with a sharp pull.
2. Unscrew the QD Sheath Connector from Duplex Cover Assembly using two pairs of pliers at points A and B, turning **counterclockwise**. This exposes the Slotted Shaft Connector.
3. Insert a 1/16" pin through the hole in the Duplex Axle. Holding pin, unscrew Slotted Shaft connector from axle, using a pair of pliers at point C turning **counterclockwise**.
4. Remove Retaining Ring from axle with needle nose pliers. Remove Washer.
5. Unscrew Duplex Cover from the Handpiece Tip using two pairs of pliers at points E and D, turning **counterclockwise**. This exposes the damaged Duplex Spring.

**6. To remove the damaged spring:** Inspect Duplex Key Tip at point F. Hold Duplex Key Tip on point F using a narrow pair of pliers above spring. With a second pair of pliers hold damaged spring, and pull while turning **counterclockwise** to remove it.

**7. To remove axle from damaged spring:** Insert a 1/16" pin through crosshole in axle. Remove spring as in Step 6 using a pair of pliers.

**8. 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).**

**9. Holding the Duplex Key Tip as described in Step 6, install the spring on the Duplex Key Tip by pushing and turning it with the pliers **counterclockwise**. Be sure that the spring goes all the way to the shoulder of the spindle (Point H).**

**IMPORTANT Be sure to follow lubrication instructions (10, 11, & 12) on reverse.**

### Replacement Parts

Part No.	Description
HP7503	Handpiece Tip
<i>We suggest purchasing HP7501 Sub-Assembly to avoid damaging the duplex spring during replacement.</i>	
HP7501	Duplex Key Tip Inner Spring Sub-Assembly (*components)
	* HP7502 Duplex Key Tip
	* HP76 Duplex Inner Spring
	* HP75 Duplex Axle
HP73	Duplex Cover
HP47	Washer
HP10531	External Retaining Ring
HP46	Slotted Shaft Connector
HP42	Q.D. Connector
HP48	Catch Ball
HP43	Catch Spring