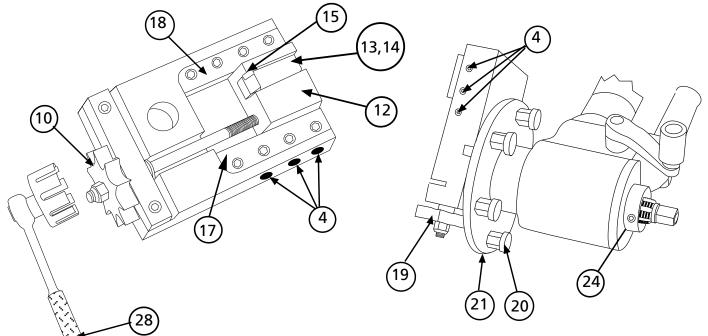


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## Operating Recommendations for Model MSF Flange Facer



- Mount the model MSF Machine using the centershaft collet system or the elbow mandrel (see elbow mandrel setup procedure).
- 2. Install cutting insert (15) into holder (13, 14).
- Install the low range or high range holder (13,14), depending upon the flange size, into the tool slide (12).
- Rotation of the flange facer body is clockwise when looking at it from the rear of the machine.
- 5. Set the tool slide (12) by rotating the trip wheel (10) with ratchet and socket (26) until the holder extends past the area to be machined.
- 6. Once the holder is in position, the trip wheel (10) backlash must be cleared and the timing set. Rotate the trip wheel one full turn clockwise to remove the backlash and position it to point directly at the trip ring (19). NOTE: Failure to perform this procedure will damage the trip screws.
- 7. Engage the correct number of trip pins (20) to achieve the required surface finish (see specifications).

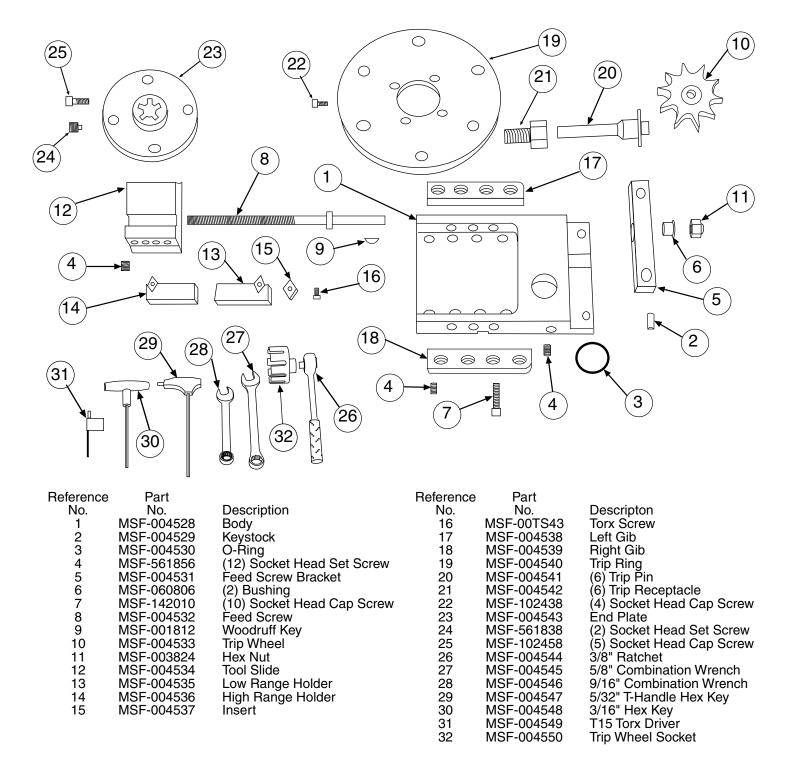
Note: It is Important that the gibs (17, 18) are properly adjusted. Correct adjustment maintains proper timing between the trip wheel and the trip screws. The gibs are properly adjusted when the set screws (4) are tightened evenly to apply enough force to the toolslide (12) that it is difficult to turn the trip wheel by hand.

- 8. The depth of cut is controlled by rotating the machine crank handle in a clockwise direction. Note: One complete turn is equal to .028" travel.
- Once the depth of cut is set, tighten set screw (24) in the end plate to lock the machine in place.
- 10. Activate the machine by operating the air motor and allow the insert to face across the raised flange area.

## **Specifications**

Working Range: 1.25" (31.8 mm) I.D. to 6.19" (157.2 mm) O.D. Radial Tool Clearance — 6.0" (152.4 mm)
Radial Feed Rate: .005" (0.13 mm) per pin: All 6 pins .030" (0.76 mm) Per Revolution Note: Pins must be engaged at opposing positions for even resurfacing.
Approximate surface finishes are:
1 pin — 63 RMS 3 pins — 125 RMS 6 pins — 500 RMS Axial Feed Rate: .062" (1.6 mm) Per Full Feed Nut Turn Approximate Feed Depth Adjustments are:
1/4 turn — .015" (0.38 mm) 1/2 turn — .031" (0.79 mm) 3/4 turn — .046" (1.2 mm)

## Parts List MSF Flange Facer Part No. 004527



The performance and reliability of H & S products is the result of a combination of quality parts, accurate machining, and careful assembly. Call H & S with your parts requirement to ensure that your repaired tool retains the quality that you originally purchased.

Complete rebuilding service is also available. Contact the factory for details.