



# Mate MARATHON<sup>®</sup> Punch Holder Tang Replacement Instructions

Recommended Tools: Marathon Complete Maintenance Fixture Kit FXAR0000, Flat Blade Screwdriver

## Step 1:

- Remove the stripper and the punch from punch holder.
- Position the holder onto the threaded post on the maintenance fixture.



## Step 2:

- Tighten the draw bolt using a hex wrench and extension bar. This will compress the springs in the holder and relieve the pressure on the retaining ring.
- If the draw bolt is damaged, or the maintenance fixture is not available, then use an arbor press to compress the assembly (see 2A).



## Step 3:

- (3A) Position the tip of the flat blade screwdriver into the notch at the end of the retaining ring.
- (3B) Use the screwdriver to pry up the end of the retaining ring until it can be removed by hand. Remove the retaining ring and set aside.



## Step 4:

- Loosen the draw bolt using a hex wrench until the thread is disengaged from the threaded post of the maintenance fixture, or release the pressure in the arbor press.



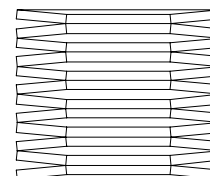
## Step 5:

- Remove the tang assembly from the holder.
- Unscrew and remove the platen from the tang assembly using the appropriate size Marathon Length Adjustment Wrench (supplied with the maintenance kit).
- Install the platen into the new tang assembly using the same wrench. Set the new tang assembly aside.



## Step 6:

- Check the disk springs for obvious signs of damage. If one disk spring is cracked, then replacement of the entire stack is strongly recommended. Note: the disc springs must be installed in the same order in which they were removed. Refer to illustration for proper positioning.





# Mate MARATHON<sup>®</sup> Punch Holder Tang Replacement Instructions

## Step 7:

- Check the inside diameter of the holder assembly, including the keyway, for obvious signs of damage. Use a soft cloth to wipe away any oil and/or grease that may be present.



## Step 8:

- Lower the new tang assembly into the end of the holder, ensuring that the pin on the tang lines up with the keyway in the holder.



## Step 9:

- Tighten the draw bolt using a hex wrench and extension bar. Alternatively, use an arbor press. This will compress the springs in the holder and allow access to the retaining ring groove around the inside diameter of the holder.



## Step 10:

- (10A) Uncoil the retaining ring slightly and position the end of the ring into the retaining ring groove around the inside diameter of the holder.
- (10B) Feed the retaining ring into the groove.
- (10C) Use the tip of the flat blade screwdriver to press down on the surface of the retaining ring. Note: the ring will not slide within the groove.



## Step 11:

- Loosen the draw bolt using a hex wrench until the thread is disengaged from the threaded post of the maintenance fixture, or release the pressure in the arbor press.
- Remove the holder from the maintenance fixture or arbor press.
- Lightly oil using DTE-26 hydraulic oil or SAE-30 motor oil or equivalents.

