SPRING CYLINDER DISASSEMBLY

The purpose of this document is to provide the service technician a fundamental understanding of the rammer foot disassembly procedure. It is recommended only authorized service technicians should perform this task. It is crucial to read all instruction on this document before attempting to disassemble the bottom end foot.

**WARNING:** The foot assembly is spring loaded! Safety precautions should be followed at all times when servicing this equipment. Consult operations manual for more safety information.

**WARNING:** Always use the appropriate tools. Using tools that do not fit will not only damage the parts but can also cause unexpected injury.

The MTX series rammer uses a special tool designed to separate the foot plate from the protection sleeve.
1. Remove drain plug

2. Drain oil from foot assembly

3. Remove upper crankcase from lower section – (4) bolts mounted upward

4. Lift rammer crankcase up and slide pin out lower section – (4) bolts mounted upward

5. Remove guide cylinder from top of bellow

6. Remove the four nylon nuts that secure the foot plate to the foot and remove shoe.

Reassembly Tip:
Torque Specifications: 57.8 foot lbs.
IDENTIFYING & REMOVING CORRECT BOLTS FROM FOOT PLATE

**IMPORTANT: DO NOT** Remove all the foot plate bolts until spring removal tool is completely installed. *(Foot plate is spring loaded!)*

After separating the foot (shoe) from the foot plate, you will need to identify which socket head bolts need to be removed in order to install the tool.

Notice on the bottom of the foot plate there is two marks. These marks identify the two bolts to be removed where the spring removal tool is installed. The MTX-60 is different then the MTX-70-80 and 90 (see below).

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### MTX-60 ONLY

- Identifying marks
- Bolts removed where tool is installed
  - Bolt M10 x 20
- **NOTE:** Bolts are longer • Bolt M8 x 40 • I.D. marks

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### MTX-70-80-90

- Identifying marks
- Bolts removed where tool is installed
  - Bolt M10 x 20
- **NOTE:** Bolts are longer • Bolt M10 x 40
  - I.D. marks
**HOW TO USE THE SPRING TOOL**

After identifying and removing the two correct bolts from the foot plate on page (3), install the spring removal tool:

- Screw the two spring removal tool guide bolts in place of the two removed foot plate bolts.
- Screw the center bolt in clockwise until it stops on foot plate.

- When tool is in place remove the rest of the foot plate bolts.

After foot plate bolts are removed unscrew the tool center bolt slowly counter clockwise, this will back the foot plate off. Remove tool when spring pressure is fully decreased.

Tool is removing spring tension

Unload Spring Tension
Technical Information

Product Group: COMPACtion
Model: MTX-SERIES

This bulletin is provided for technical reference and service related updates. If you have any questions, comments or do not wish to receive these e-mails, please reply to this e-mail or call the Service Technical Support Group 800 478-1244.

Spring Removal
Remove bottom springs from spring cylinder by lifting out springs.

Piston End Removal
MQ Special Tools:

<table>
<thead>
<tr>
<th>MTX 70/80/90 Part #</th>
<th>983910010</th>
</tr>
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<tbody>
<tr>
<td>MTX 60 Part #</td>
<td>983910040</td>
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Protection Sleeve Removal
Once all the bolts are removed, the protection sleeve can be pushed off as it’s held on by O-ring.

NOTE: Do not attempt to remove if bolts are still in.
REASSEMBLY

Load Spring Tension

Install the two spring removal tool guide bolts then screw the center bolt clockwise, this will push down the springs into spring cylinder and allow you to install the foot plate bolts.

Tool is creating spring tension

NOTE: when reassembling: Apply Loctite

Apply Loctite 221 & Torque bolts:

- Long Bolts: 50 ft. lbs.
- Short Bolts: 69 ft. lbs.

Reassemble in reverse order