Casing Scraper

Assembly Procedure

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Assembly Procedure for
M&M Oil Tools, Inc. Casing Scraper

SAFETY CONSIDERATIONS

- Safety glasses should be worn along with other protective clothing as required.
- Proper tools and restraining devices (vises, clamps, etc.) should be used to secure the casing scraper in a safe manner.
- Casing scraper maintenance should be performed in a safe and suitable work area as designated by your supervisor.
- Personnel performing these operations should be familiar with M&M casing scrapers and their uses.
- If unsure of any part of the operation, check with the casing scraper manufacturer before proceeding.

These instructions are intended for the assembly of M&M Oil Tools, Inc. casing scrapers only.
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**Casing Scraper Assembly**

**Figure 1**

1. Place the casing scraper body in an upright position with up-hole end up.

2. Gather scraper blades, springs, and hard grease.

**Figure 2**

1. Place 3 blades with holes facing up on a table.

2. Apply hard grease to each spring and place springs in holes on scraper blades.
   
   a. Hard grease is used to hold the springs in place during assembly.

**Figure 3**

1. Slide scraper blades into the slots of the body with the springs facing the inside of the scraper body.

**Figure 4**

1. Push scraper blades with springs towards the inside of the scraper body using your hands.

2. Wrap banding material around the outside of the three scraper blades and body.

3. Tighten the banding material enough to where the blades are flush with the scraper body.

**Figure 5**

1. Apply thread compound to the pin connection of the body.

2. Install the top sub onto the body.
   
   a. Tighten the sub enough for it to cover the lip of the scraper blades.

3. Remove the banding material from the scraper.

4. Tighten the sub onto the body.
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FIGURE 6

1. Flip body over so the down-hole end is facing up.

2. Repeat all steps to install blades and the bottom sub on the down-hole end of the casing scraper.
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Figure 3
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Figure 4
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Figure 5
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Figure 6