

## Work Procedure for Using the Stinger® Tool Rev 04 with Low Volume Nozzles

### Stinger Tool Setup:

1. **Attach Nozzle:**
  - Select and securely attach (hand tighten) the Orange Low-Volume nozzle to the Stinger® tool. Do not overtighten the nozzle.
2. **Prepare Fluid Can:**
  - Unscrew counterclockwise the can cap located on the bottom of the main assembly of the Stinger® tool.
  - Select the appropriate Stinger® Fluid can (1FR, 2NP, 3PAO, or Wasp Spray).
  - With the tool bottom-side up, center the can to the can housing to prevent misalignment. Then, fully screw the threaded top of the fluid can into the main assembly until it is hand tight.
  - Listen for the pressure release sound indicating proper installation. Typically, give the can another half turn after hearing the release.
  - Caution: If it is hard to screw in the can, it may be cross-threaded. Remove and re-align and thread in again. Do not forcibly screw in the can.
  - Caution: Do not overtighten the can. Over tightening may cause damage to the top of the fluid can and leakage due to can deformation and leakage at the fluid can valve crimp seal.
  - If the can isn't fully threaded in, the can could leak or fail inside the can housing. The Stinger® can only be used with proprietary Stinger® fluids. Do not attempt to insert other cans into the Stinger® Tool.
3. **Secure Can Cap:**
  - After installing the fluid can, fully screw the orange can cap onto the main assembly until it is hand tight.
4. **Power On Receiver:**
  - Flip the switch on the receiver to the ON position to power it on.
5. **Attach Stinger® Tool to Hot Stick Adapter:**
  - Attach the fully assembled Stinger tool to the hot stick adapter securely.
6. **Perform Fluid Dispense Test:**
  - Press the button on the key-fob to dispense a small amount of fluid. This tests the tool before actual use.
  - Note: The remote operates using a touch-and-release mechanism. Continuous spraying occurs if the key-fob button is held down. For brief spraying, touch and quickly release the key-fob button. This prevents over usage of Stinger® fluids.

### Operations:

1. **Pre-Operation Inspection:**
  - Before opening a switch, visually inspect it using a GOPRO® camera for any obvious issues or abnormalities.

## Operations: (Continued)

### 2. Application of Stinger® 1FR Penetrant:

- Spray the switch with the Stinger® 1FR Penetrant fluid. More than one application may be needed.
- Allow 30 minutes for the penetrant to work. If feasible, open the switch a few times during this period. Opening the switch is not mandatory to maintain it.

### 3. Application of Stinger® 2NP Cleaner:

- After the Stinger® 1FR Penetrant application, spray the switch with the Stinger® 2NP Cleaner fluid.
- No wait time is required after cleaning.

### 4. Application of Stinger® 3PAO Lubricant:

- Finally, spray the switch with the Stinger® 3PAO Lubricant fluid to lubricate it effectively.

## Post-Operation:

### 1. Cleaning Before Storage:

- Before storing the Stinger® tool, flush the tool by spraying three short sprays of Stinger® 2NP cleaner fluid through the tool to flush it thoroughly.

### 2. Turn Off Tool:

- Turn the switch on the Receiver to the OFF position after completing the operation. Caution: Batteries will be depleted if the switch is not turned off.

### 3. Remove Nozzle:

- Carefully remove the nozzle from the Stinger tool, wipe any excess fluid from the nozzle tip and store in the kit case.

### 4. Tool Storage:

- Store the Stinger® tool in a secure, dry location, following company procedures and guidelines.
- Ensure all components are stored safely and securely.

### 5. Fluid Storage:

- Stinger® 1FR penetrant fluid needs to be stored and used at temperatures not less than 40 degrees F. At or below 40 degrees F, 1FR fluid begins to thicken and cause problems with the solenoid operation. See FirstPower Group LLC - Handling, Storage and Usage of Stinger® Fluids Policy.

## Safety Precautions:

- Always wear appropriate PPE, follow all company-specific safety procedures and guidelines for handling and using the Stinger® tool.
- Keep the tool and its components clean and well-maintained as per the manufacturer's recommendations.