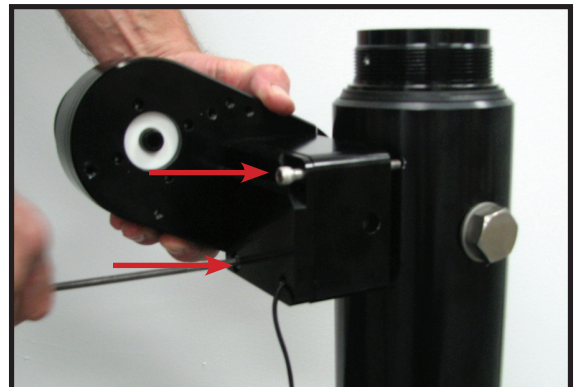
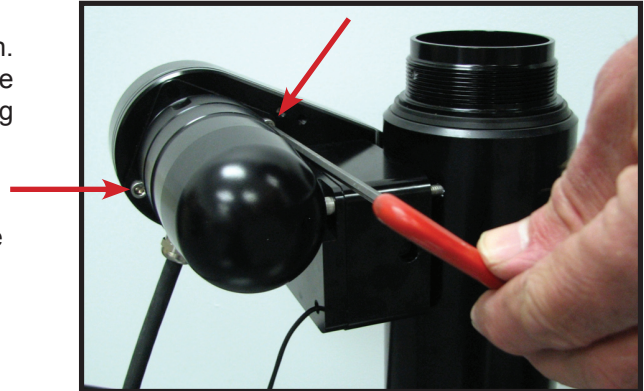




## SERVICE PROCEDURE: RC Extend-A-Gun Drive Box Replacement (for use with serial numbers above X505165)

The Extend-a-Gun Motor Drive Unit contains latches that hold the Extend-a-Gun in both the extended and retracted positions. The latches are fully automatic but rely on the Motor Drive Unit being synchronized to the gear rack on the Extend-a-Gun tube. **The Motor Drive Unit must be correctly timed whenever it is reinstalled or replaced.** This document shows how to obtain and verify the correct timing of the Motor Drive Unit.

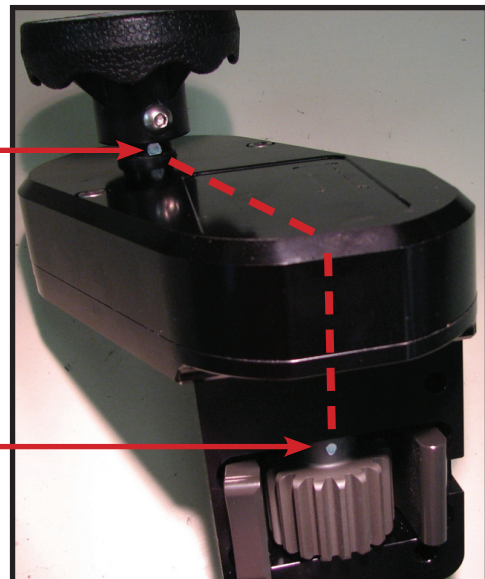
- 1 Remove the monitor from the Extend-A-Gun. (This is not a required step but can be done to make the assembly lighter and easier to perform the following steps.)
- 2 Using a 3/16" long handled Allen wrench, remove the motor by removing the 2 motor mounting screws.
- 3 Remove the drive box by removing the 2 drive box mounting screws.



- 4 Ensure that the timing marks are in the correct orientation. This may take several knob rotations.

Knob shaft timing mark  
facing center of spur  
gear shaft.

Spur gear timing mark  
facing forward.



**TASK FORCE TIPS, INC.**  
MADE IN USA • [www.tft.com](http://www.tft.com)

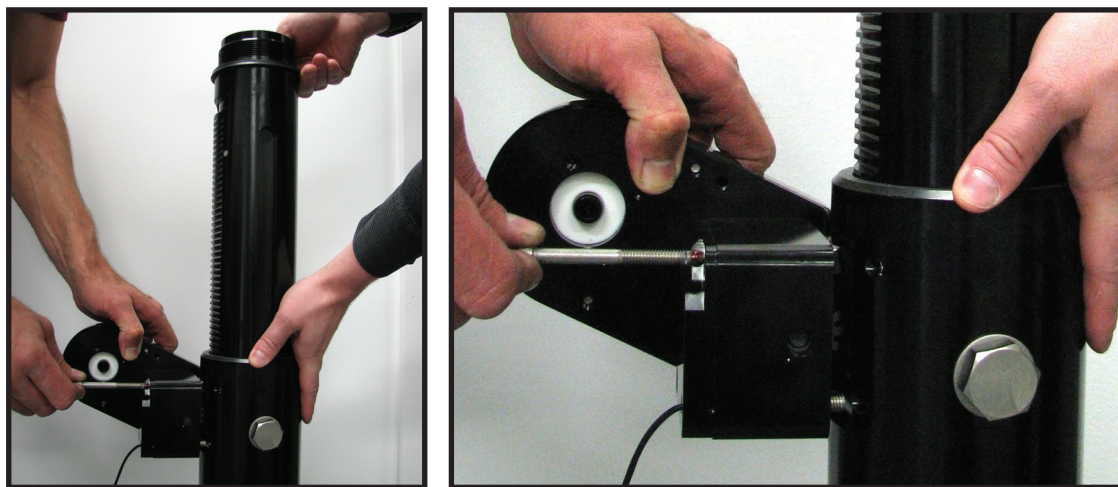
3701 Innovation Way, Valparaiso, IN 46383-9327 USA  
800-348-2686 • 219-462-6161 • Fax 219-464-7155

- 5 Fully extend the inner tube. One person will be needed to hold the tube in position while another person installs the new drive box. If another person is not available a large “radiator type” hose clamp can be tightened on the inner tube to keep the inner tube in the full up position

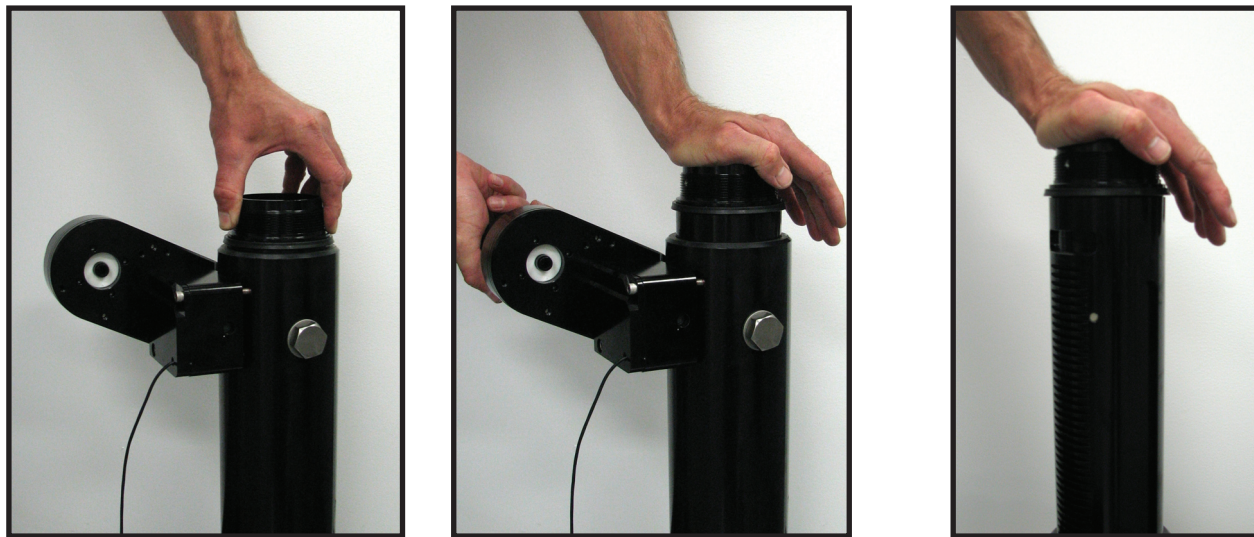
**⚠ WARNING**

The Extend-A-Gun must be fully extended while installing the drive box to achieve correct timing. Adequate means must be provided to support the weight of the monitor and nozzle (if they are left on the Extend-A-Gun) while the drive box is being installed. With the drive box uninstalled there is no braking and the monitor and nozzle are free to fall from any raised position. Injury or damage may result if the weight is not adequately supported during installation of the gearbox.

- 6 Install the drive box screws using blue Loctite thread locker. Alternate between the screws while tightening to ensure that the box stays flat against the mounting surface.



- 7 Verify that the tube latches in the fully extended and fully retracted positions and not in any intermittent positions. If intermittent latching occurs, remove the gearbox and check the orientation of the timing marks.



To test down latch, pull up on tube while in down position.

To release down latch, push down on tube while turning knob.

To test up latch, push down on tube while in up position.

- 8 With the tube in the down position, attach the motor using blue Loctite thread locker on the screws.
- 9 Cycle the Extend-A-Gun under power checking for proper operation up and down, and motor shutoff at stroke ends.