



## PTO Driveline Support

### **WARNING**

*Failure to follow instructions can cause serious injury or death (refer to operating manual for your specific attachment.)*

*Do NOT exceed the rated implement / attachment PTO speed.*

*Stay clear of rotating driveline.*

*Keep bystanders away.*

*Keep hands, feet, clothing, and long hair away. Keep PTO shields and all guards in place. Disengage PTO (rear and mid), engage the parking brake, stop the engine, and make sure all rotating components are stopped before exiting compact tractor.*

*Do not service the compact tractor or implement / attachment with the PTO (rear or mid) engaged. Do not service the implement / attachment in a raised position unless properly blocked and with all rotating components stopped.*

*Disengage PTO (rear and mid) for road travel.*

Due to variations in distances between tractor PTO shafts and implement input shafts, drivelines may need to be shortened or a longer shaft may be required. When fitting the implement to the compact tractor, the PTO driveline, with telescoping sections, must be inspected. When the sections are at the most compressed operating position, the sections must not “bottom out”. At its shortest length, there must be at least 2 in of clearance between each section end and opposite section end at the most compressed operating position. When the sections are at the most extended position, there must be sufficient engagement between the sections. At its farthest operating extension, a minimum section engagement of 33% of shaft length must be maintained.

## ***PTO Driveline Bottoming Out Check***

1. With PTO removed from tractor and attachment, measure the retracted (compressed) length of the PTO. Example is 11in [Image 1].



***Image 1***

2. Extend the PTO driveline 2 in from the retracted length and make a mark at the end of the outer shield on the inner shield [Image 2].



***Image 2***

3. Reattach the PTO driveline to the compact tractor PTO shaft.

4. With the rear PTO DISENGAGED, raise and lower the implement and watch the PTO driveline expand and retract. If the outer PTO driveline plastic guard slides in (retracts) over the mark at any point of travel, the PTO driveline needs to be shortened.

## ***Reducing PTO Driveline Length***

1. Pull the PTO driveline apart and reinstall each individual section; one half to the compact tractor PTO shaft and one half to the implement gearbox PTO shaft

2. Hold PTO driveline sections parallel to one another and measure back 2 inches from the yoke of each section and place mark on opposite section [Image 3]



***Image 3***

3. Cut plastic shield at the 2 inch mark just made.

4. Using the plastic shield length that was just cut and align it with the end of the inner shaft and make a mark. Cutting the same amount off the end of the inner shaft as the shield, 2 inches in this example. Round off all sharp edges and debur.

5. Repeat for second half of the shaft. Equal amounts must be cut from each shaft [Image 4].



***Image 4***

## Checking the PTO Driveline Engagement

**Note: DO NOT EXCEED MAXIMUM OPERATING LENGTH OF PTO SHAFT.**

To find the maximum operating extension length of the PTO driveline, measure the retracted length, as in step 1, and multiply by 1.667. Example, [Image 5] 11in (1.667)=18.337 or 18-3/8in. [Image 6]



**Image 5**



**Image 6**