

REMOVAL & INSTALLATION OF TWIN V-BELTS (Applies to T-300 with Two or Three Belt Tensioners)

The T-300 Trench Burner is fitted with twin OPTIBELT *Red Power 3 Type 5V1400 V-Belts* (Air Burners P/N 5000-0008). These are high quality belts that do not stretch again after a short initial runtime of 10-15 minutes and never require adjustments again for the life of the belts. These technical notes explain how to remove and install the belts and how to properly adjust their tension.

Install only new belts in pairs and use only Optibelt 3 V51400. Never mix new and used belts or belts of different types.

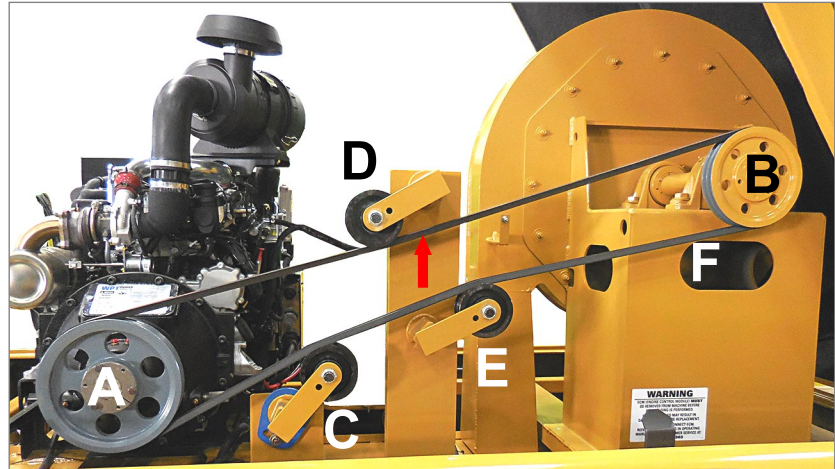
Belt assembly components:

Engine/PTO Pulley (A)
Air fan Pulley (B)
Adjustable Tensioner Pulley (C)
Fixed upper Guide Pulley (D)
Fixed lower Guide Pulley (E)
Twin Optibelts Red Power 3 (F)

Required tools:

Wrenches
Belt tension measurement tool - we suggest an Optikrik "Cricket" from Optibelt

Caution: Wear protective gloves.



A. Follow these steps for twin belt removal:

1. Assure engine is switched off, the cowlng secured and the PTO disengaged.
2. Loosen Tensioner Pulley (C) in front and back and guide pulleys (D) and (E) in back and move them out of the way of the belts.
3. Remove the twin belts by "rolling" them off Pulley A, one at a time. Do not use any tools, like a screwdriver. Make sure not to pinch your fingers.

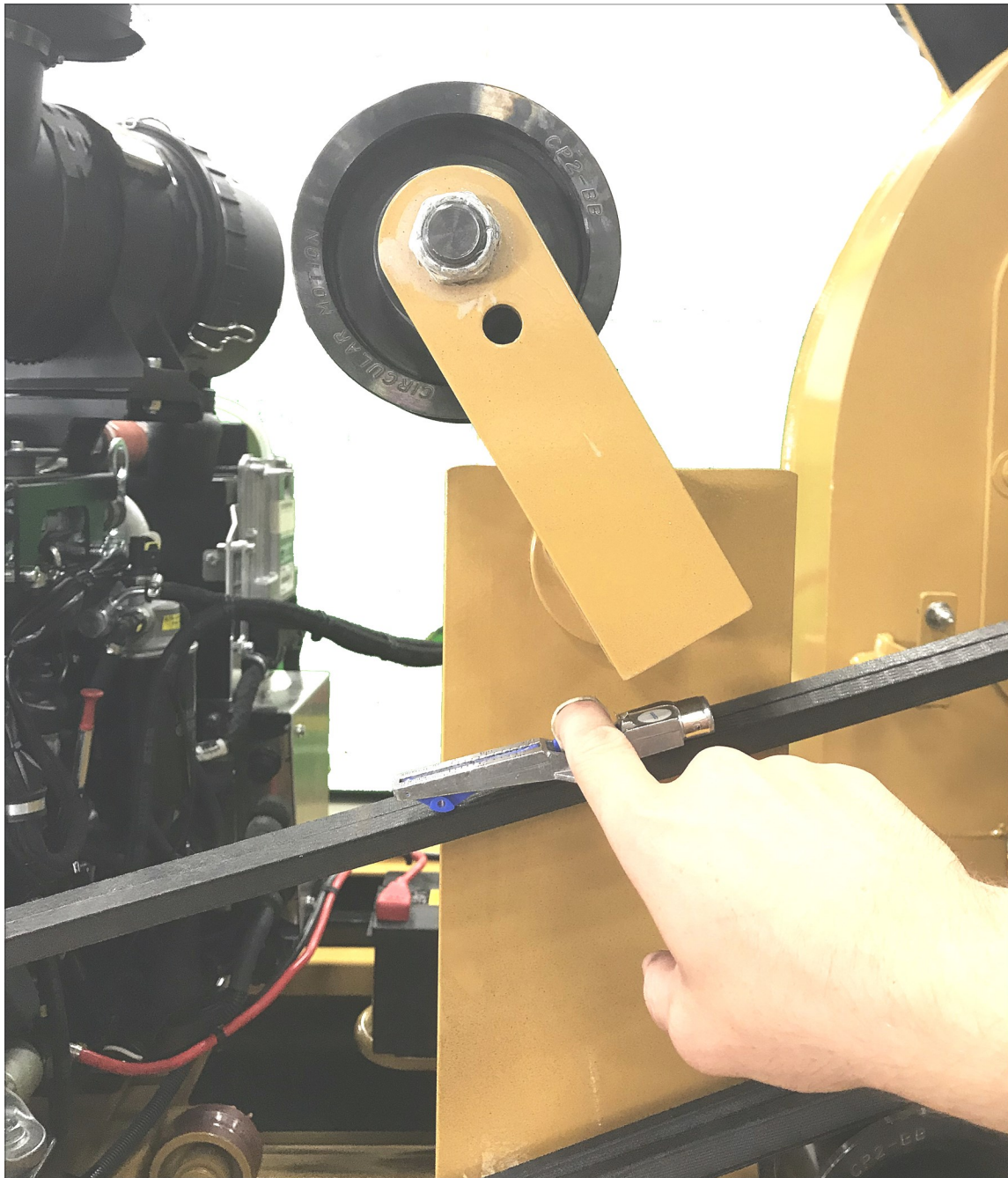
B. Follow these steps for new twin belt installation:

1. Install first belt over the fan Pulley (B) and the PTO Pulley (A), then the second belt the same way. Do not use any tools, like a screwdriver.
2. Rotate the bottom adjustable Tensioner Pulley (C) upwards to achieve 190 lbs. tension and tighten the two bolts previously loosened. Place the Optikrik tool to determine the belt tension in the center on top the upper stretch of the belts just below Pulley D (still out of the way turned upwards, see image on back of page) at the location indicated with the red arrow in the image above. Verify both belts measure the same tension.
3. Rotate Pulley (E) upwards and put a deflection of approx. 1/2" on the belts and tighten the bolt.
4. Rotate Pulley (D) onto the top of the belts and put a deflection of approx. 1/2" on the belts and tighten the bolt.
5. Run the engine with the PTO engaged for 10 to 15 minutes after which time the belts have stretched to the permanent length.
6. Move the upper Guide Pulley (D) and lower Guide Pulley (E) temporarily out of the way and use the Optikrik to set the belt tension to 147 lbs. by adjusting the Tensioner Pulley (C)
7. Reposition Guide Pulleys (D) and (E). No further adjustments will be needed for the life of the belts.

AIR BURNERS, INC.

4390 SW Cargo Way • Palm City, FL 34990
Phone 772-220-7303 • FAX 772-220-7302
E-mail: info@airburners.com • www.AirBurners.com
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Proper Positioning of Belt Tension Measuring Tool, such as *Optikrik*