

Mooney Aircraft Tug Assembly Instructions



[Fig.1]

1. Carefully unpack contents of shipping carton and locate the Milwaukee drill, charger and battery. The battery may or may not be installed in the drill. Plug in the charger and charge the battery for at least one hour. You will need a 7/16" boxed in wrench to assemble your tug.
2. **DEWALT DRILL:** Locate the 1/2" drive shaft and chuck the end with three flats into the Dewalt drill. Be sure the flats align with the jaws in the chuck and are seated on the jaw tips. Tighten by hand as hard as you can with the clutch in the **drill bit image** position, and in speed selector switch setting **1**. See Dewalt drill operation instructions.
3. Visually check to see the foam drive shaft alignment insert installed 8" inside the handle tube end which inserts into the tug receiver. With the drive shaft installed in the drill, insert it into the expanded handle tube end and see that it slips through the foam alignment insert (A light source at the end of handle is helpful) and push the drill into the handle as far as it will go noting that it fits squarely to the drill collar and that drive shaft is centered in foam alignment insert. (Visually check inside handle end) Rotate drill so that Minimax label is aligned with drill top and tighten compression clamp to prevent drill from rotating in handle. Install charged drill battery.
4. Be sure the stainless steel compression clamp [Fig.1] is loosely fit onto the tug handle receiver 1/8" from the top. Install the handle tube into the tug receiver to black depth mark (1-7/8") rotating as necessary or lightly "bumping" the drill trigger to engage the square drive socket. After engaging the square drive socket position drill with the forward/reverse switch facing up. Tighten compression clamp snugly. **It is critical that this connection is always tight while the tug is in use!**
5. Familiarize yourself with the drill operation and assure that the drive roller rotates in both directions and the trigger rheostat functions properly.
6. The aircraft attachment device comes pre-installed on your tug with the attach pin "loose". You will need to make adjustments for a comfortable handle height on your plane model. Raise or lower the pin in its slot to adjust handle height. If handle is low, raise pin in the slot. If handle is high, lower pin in the slot. Be sure to tighten pin nut securely after adjustment.
7. Slide the attach pin fully into the hinged knuckle section of nose gear assembly. (Adjust per section 6) Push down on the tug handle and slowly pull the drill trigger all the way in to move your plane. When stopping, slowly let off on the drill trigger until plane stops. Avoid sudden starts and stops as this can damage the chain and transmission gears in your tug. Keep chain and axel bushings lubricated per ["Use and Care Guide"](#).

NEVER LEAVE TUG ATTACHED TO AIRCRAFT WHILE NOT IN USE!

Practice makes perfect! Thank you for buying a Minimax Aircraft Tug!

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