

## Aligning your Adaptors for Model 35EZ/40EZ/KEY EZ/Thundervolt

Proper alignment is vital to a secure moving experience. Improper alignment may result in the tug coming free of the airplane

A broken lanyard cable is almost ALWAYS the result of an improper alignment.

We created a very detailed alignment video that can be found at <https://youtu.be/pNr4akg8CYo>

The alignment kit is here [https://www.powertow.com/Powertow-Alignment-Kit\\_p\\_610.html#](https://www.powertow.com/Powertow-Alignment-Kit_p_610.html#)

New machines are shipped with the 3/4" OD Tube.

If your hook-up requires extension bars the bar may not fit.

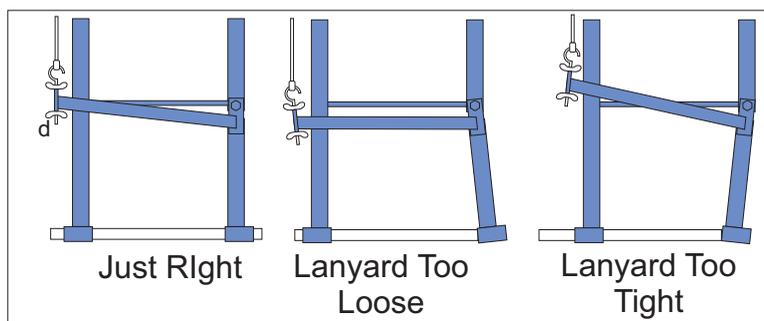


### **IF YOU HAVE PURCHASED OUR KIT (OR HAVE THE 3/4" OD TUBE):**

- 1) Loosen set screws on adaptor holders until adaptors slide very easily back and forth.
- 2) Remove Adaptors and set aside.
- 3) Close jaws with handle
- 4) Insert Tube into adaptor holder on the fixed side of tug (spring side). Rotate tube until it slides easily.
- 5) Slide tube into other adaptor holder. It should slide easily back and forth.
- 6) If tube does not slide, tighten or loosen lanyard (using wing nuts) until a proper fit is achieved.

**NOTE: some older tugs may have twisted frames and may not fully align. Adjust as well as possible.**

- 7) Hand tighten wing nuts carefully so as not to change adjustment.
- 8) You may use 2 pairs of pliers to GENTLY lock wing nuts in place.

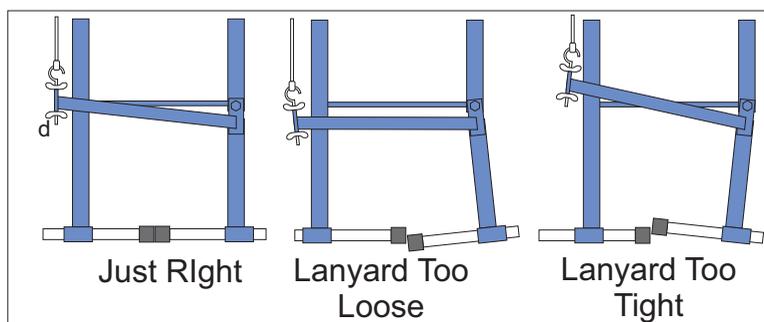


**The Wing Nuts are for alignment purposes only, never use them to "tighten" your hold. As a new cable stretches, the above procedures may need to be repeated.**

### **IF YOU HAVE NOT PURCHASED OUR KIT (OR DON'T HAVE THE 3/4" OD TUBE):**

- A) Repeat above instructions, but slide adaptors together until they meet.
- B) When the arms are aligned, the adaptors should line up nearly perfectly. You may have to loosen one adaptor and slide it in or out repeatedly to close in the best fit.

**NOTE: This method is inferior to the method using the tube.**



### **FOR THE NEXT STEPS, FIND A HELPER! WORKS BEST WITH A HELPER!**

- 8) Insert Adaptors, slide adaptors outward for maximum gap between adaptor tips.
- 9) Have helper push tug to aircraft, tug tire must be in line with aircraft tire. Helper holds tug in place with adaptors lined up to aircraft hook-up point.
- 10) Push adaptor on fixed (spring) side of tug firmly inwards and hold in place. Fully tighten those 2 set screws.
- 11) Push the 2nd adaptor inwards firmly into place.
- 12) While holding 2nd adaptor in place, have helper lift the tug handle until the tug tire breaks contact with the ground.
- 13) Push or tap 2nd adaptor the rest of the way firmly in place.
- 14) While holding adaptor in place, fully tighten set screws.
- 15) Helper may set tug down.

