



PIGGYBACK DOVETAIL CDK12.5

Contents:

1. 1x 32" long dovetail bar (PW#125364)
2. 2x Dovetail Mounting Bracket (PW#125363)
3. 4x $\frac{1}{4}$ -20 x $\frac{3}{4}$ " Button Head Cap Screws (McMaster-Carr# 92949A540)
4. 3x $\frac{1}{4}$ -20 x $\frac{5}{8}$ " Button Head Cap Screws (McMaster-Carr#92949A539)
5. 2x #8 x .177 x .408 x .06 Nylon Washer (McMaster-Carr#90295A110)
6. 1x $\frac{1}{4}$ " x .252 x .472 x .06 Nylon Washer (McMaster-Carr#90295A140)



Figure 1

Step 1

Using two of the longer $\frac{1}{4}$ -20 x $\frac{3}{4}$ button head cap screws, attach one of the dovetail mounting brackets to the back of the telescope as shown in figure 2.

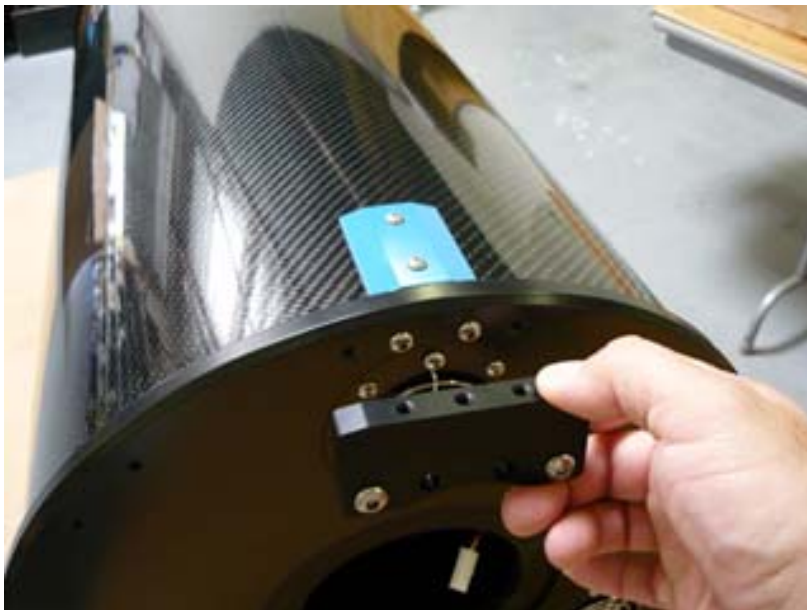


Figure 2

Step 2

Using the remaining two longer ¼-20 x ¾ button head cap screws, attach the remaining dovetail mounting bracket to the front of the telescope as shown in figure 3.

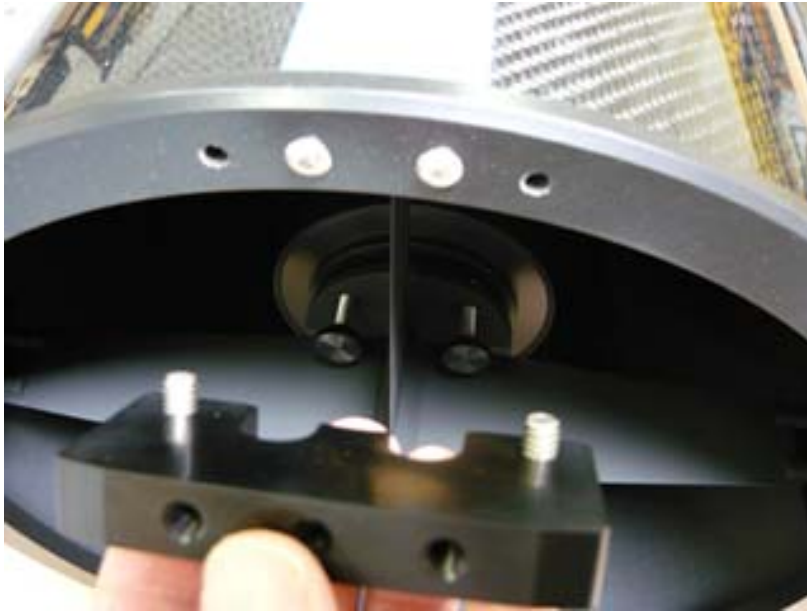


Figure 3

Step 3



Figure 4

Place the dovetail on its back so that you notice the two spot faces (shallow counter bores) where the two small nylon washers are to be placed. See this in figure 4.

Place the dovetail on top of the mounting brackets. The slotted end (the end with the nylon washers) is mounted on the front of the telescope, see figure 5. The nylon washers are to be placed between the mounting bracket and the dovetail. This is meant to slide with thermal changes.



Figure 5

Use two of the shorter cap screws to attach the rear of the dovetail as shown in figure 6. Use one of the shorter cap screws and the larger nylon washer to secure the front of the dovetail as shown in figure 7.



Figure 6

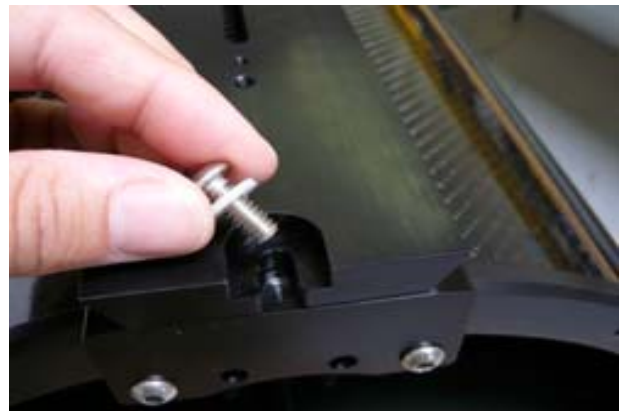
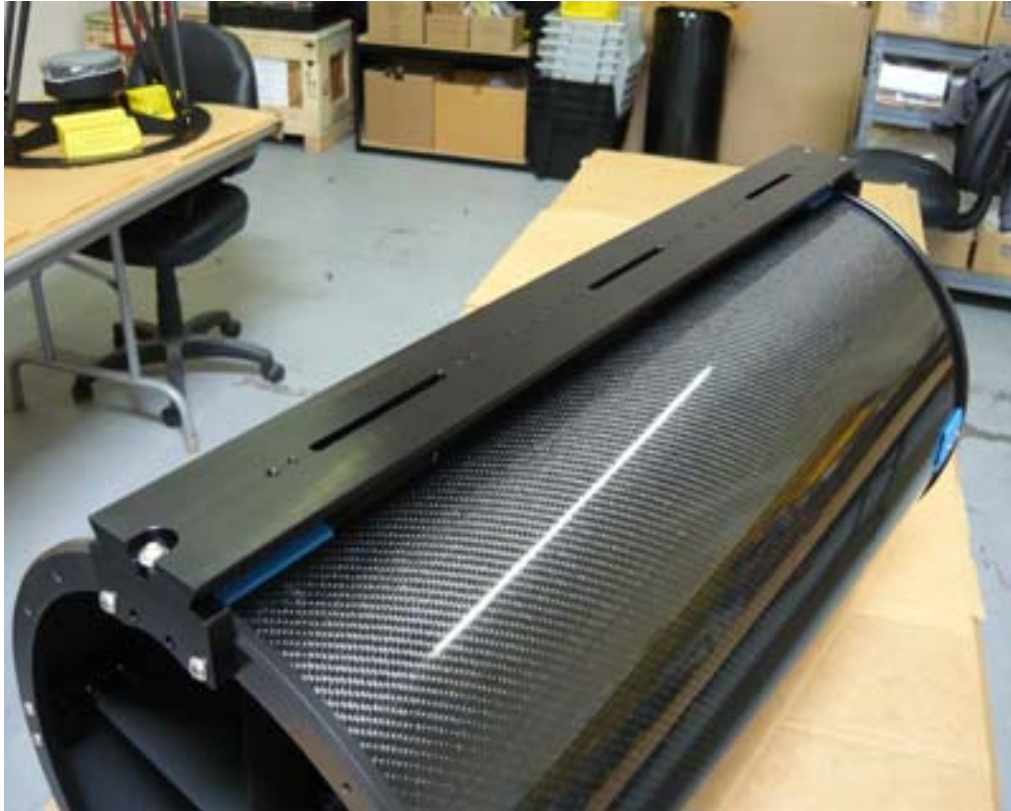


Figure 7

Step 4

Tighten the rear bolts very tightly. Tighten the front bolt firmly, but do not over tighten. The idea is that as the aluminum dovetail thermally expands and contracts, the nylon surfaces allows slippage so as not to stress the carbon fiber optical tube.



PlaneWave Instruments

1815 W. 205th St. #303

Torrance, CA 90501

Phone: 310-787-9411

Fax: 310-634-0439

Email: astronomer@planewave.com

www.planewave.com