

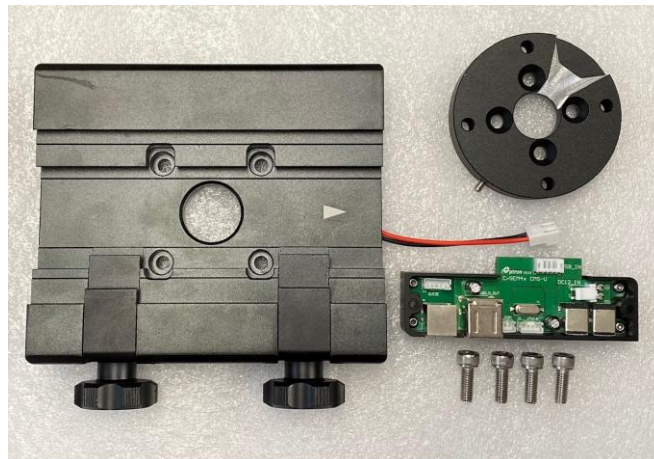
CEM40/GEM45 Dual Saddle Replacement

Dec 20, 2021

iOptron provides accessories for those who want to change original Universal Dovetail Saddle of a CEM40/GEM45 mount to a Vixen/Losmandy Dual Saddle. It also has mounting holes for z-axis balance kit and external iGuider.



Parts included in the package



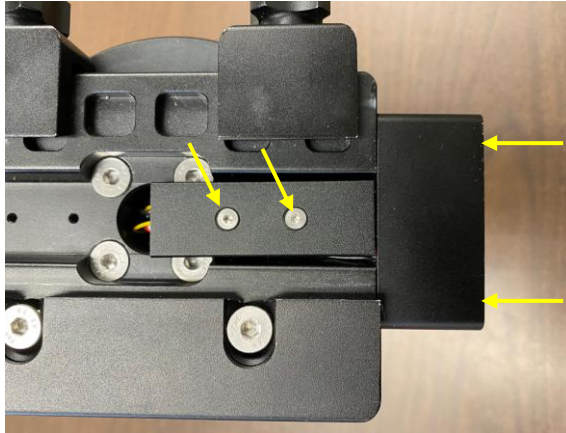
- (1) 1X 6" V/D dual saddle
- (2) 1X dovetail saddle adapter
- (3) 1X USB CMS hub with compartment
- (4) 4X Socket head screw for dovetail saddle
- (5) 1X DC 12V power cable with plug

Tool Needed:

- (1) Metric Allen wrench;
- (2) Wire cutter, shrinkage tubes and soldering gun to replace DC12V output plug;
- (3) You may send the mount in for saddle replacement

Replacement Procedures:

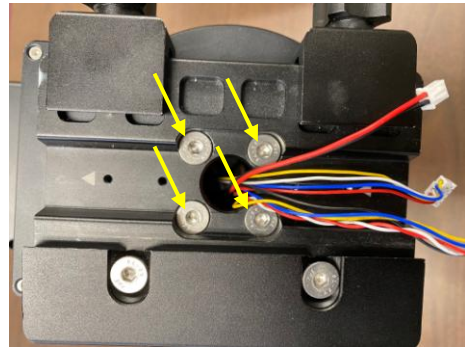
1. Engage the gear switch and send the mount to Zero Position.
2. Release CMS wire cover on a Universal Saddle. Release two screws that hold the CMS onto the dovetail saddle.



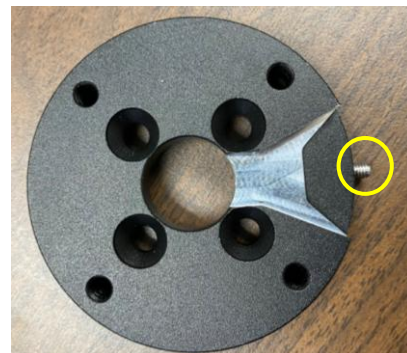
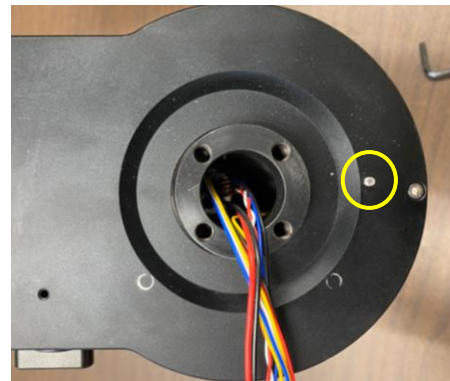
3. Pull the cables off from the CMS board. It has 3 cables: the 5-wire one with a pair of twisted wires is for USB. The other 5-wire one is for GUIDE. The 2-wire is DC power.



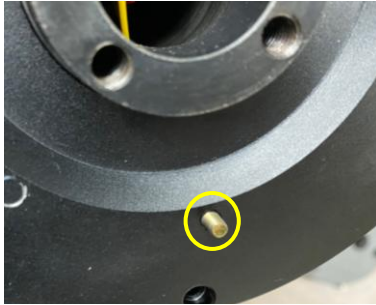
4. Remove dovetail saddle from DEC axle by release for screws. You'll need these 4 flat head screws to secure new dovetail saddle adapter.



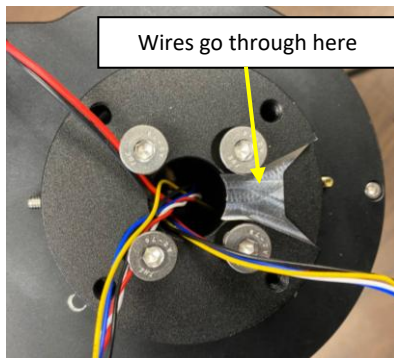
5. There is a pair of screws to serve as DEC stopper to prevent cable tangling due to dovetail saddle turn over more than 180 degree in either direction.



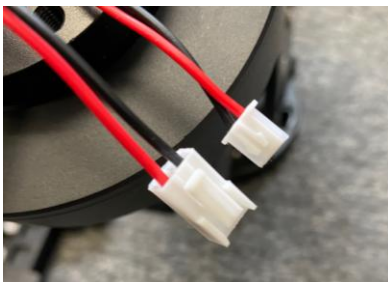
You may need to replace the stopper on DEC ring gear cover with a longer one. Just remove 3 screws that secure the cover to the DEC ring gear compartment. Replace the screw.



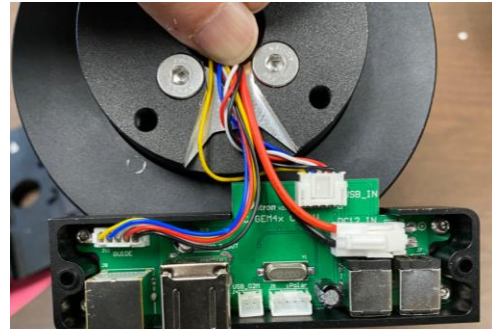
6. Thread wires into the dovetail saddle adapter. Secure the adapter onto the DEC axle use 4 flat head screws. Make sure that the stopper screw is facing back of the mount.



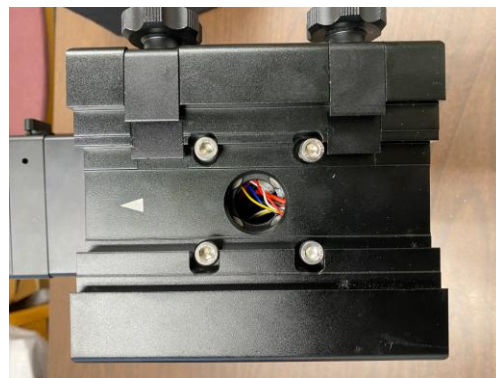
7. If you want to use 2X12V DC output on the dovetail saddle, you'll need to cut off the old DC plug and solder the new one onto the DC wire. It is larger than the old one.



8. Plug the cable into the new CMS board. There are printed marks next to each plug on the board.



9. Align the GUIDE cable while put the new dovetail saddle on to the mount. Check the cable to make sure it not sitting between the dovetail saddle and CMS compartment.



10. Secure the CMS compartment with two small socket screws removed from the old saddle. Tighten the dovetail saddle screws.

