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Y-Motor Mounting Bracket Installation.

In the case that you receive a new bracket for your Y-motor (rotational axis), you will use this guide to help you install it. The new bracket will come with 3 slotted holes for mounting along with 3 new sets of bolts, washers and nuts as shown.



Before starting through this guide, we highly advise that you POWER OFF your Dragon machine. If steps 4, 8 and 14 are preformed while the machine is turned on, then you will destroy your motor cable plugs.

1. To start, remove the chuck housing from the chuck trolley by first removing the 1/8" bolts from the <u>bottom side</u> (x16) all the way around the housing, then removing either the front or rear panel (x10). <u>Disconnect the DC plug inside leading to the E-stop button, then carefully lift the housing off the trolley.</u>



2. Revealing the Y-axis motor and existing mounting bracket, use a 3/32" allen head wrench to loosen the 2 set screws securing the gear to the motor shaft.



3. Remove the motor gear from the Y-motor shaft. You may need to pry it loose with a flat head screwdriver in cases where it is jammed up against the adjoining carbon fiber gear.



4. Now, position the chuck trolley as close as possible to the head of the machine for easier access to the 3rd rail's cable guide section. <u>NOTE: Disconnect the</u> <u>'X' motor cable to make pushing the trolley less tedious.</u>



5. At the 3rd rail section from the head (second from the tail), use a 5/32" allen head wrench to remove the 2 bolts holding on the cable track guide section (labeled 4 and 5 at each end). Set aside.



6. With the guide section removed, push the chuck trolley back to this location on the rail to easier access the 6 mounting bolts from the underside of the trolley. Let the cable track loosely lay on the shop floor during these steps.



7. On the underside of the chuck trolley base, use a 5/32" allen head wrench to remove the 6 bolts securing the bracket.



8. Making sure to unplug the 'Y' motor cable first, lift the motor and bracket in an angled motion to remove it from the trolley base.



9. Now, remove the 2 motor mounting bolts from the motor to separate the motor from the existing bracket.



10. Still using the 3/16" allen head wrench, attach the new bracket (with the slotted holes) in the same fashion.



11. Attach the small gear to the motor's shaft. Make sure the inner face of the gear is lined up with the bracket's face as shown here.



12. Making sure that the motor and bracket sit flush on the chuck trolley's base (and they are not sitting on any cables), wedge the bracket up to the large carbon fiber gear to close the gap between the 2 gears.



13. Using the bolts, washers and nuts provided, attach the bracket to the base with a 5/32" allen head wrench and 3/8" wrench.



14. Reconnect the 'Y' motor cable, but leave the 'X' motor cable disconnected to make it easier to push the chuck trolley back to the front of the machine.



15. Push the chuck trolley back up to the front of the machine, and reconnect the cable guide section using a 5/32" allen head wrench.



16. Push the chuck trolley back away from the machine head, reconnect the 'X' motor cable and use the 1/8" allen head bolts (x26) to reattach the chuck housing. NOTE: Be sure to plug in the DC connector plug for the Emergency Stop button.





Thank you for reading this helpful guide.

If you have questions or concerns please contact a Bend-Tech representative using

the information provided below.



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