

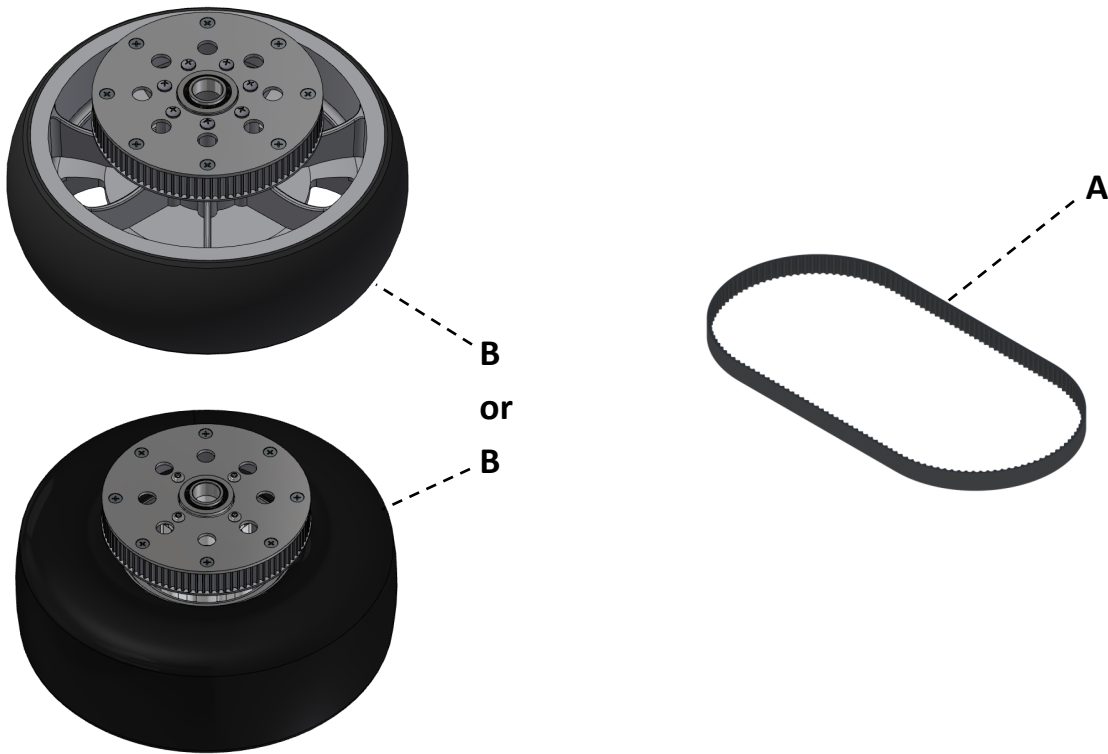
Xcelerator Wheel & Belt Replacement Instructions

Item	Description	Qty.	Part No.
A	Timing Belt, 550-5M-15	2	8445-003
B	Xcelerator Wheel	2	Various*
C	Medium Strength Thread Locker	AR	8278-003

* Part number will vary based on the option selected at the time of purchase.

Tools Required:

- (1) #2 Phillips Screwdriver
- (1) 3/8" Wrench or Socket
- (2) 1/2" Wrench or Socket
- (1) Pliers
- (1) Socket driver & extension



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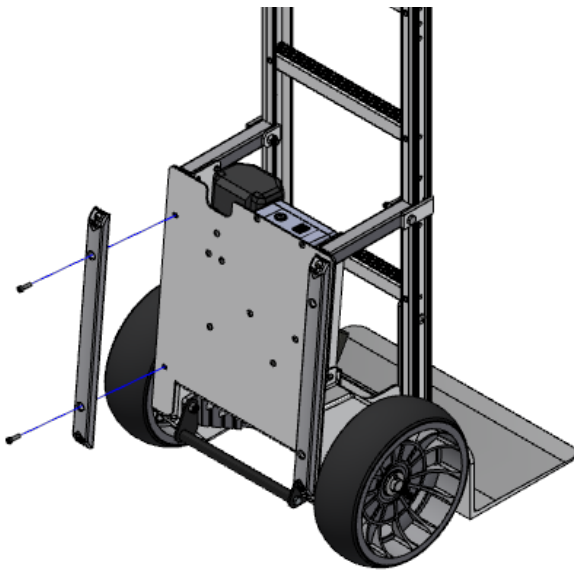
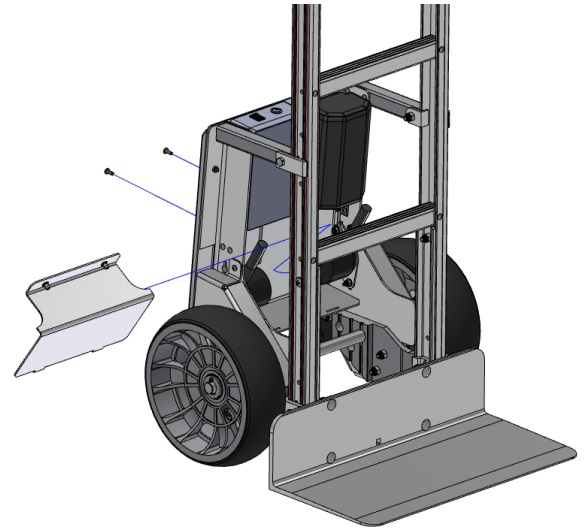


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Remove Power Assembly

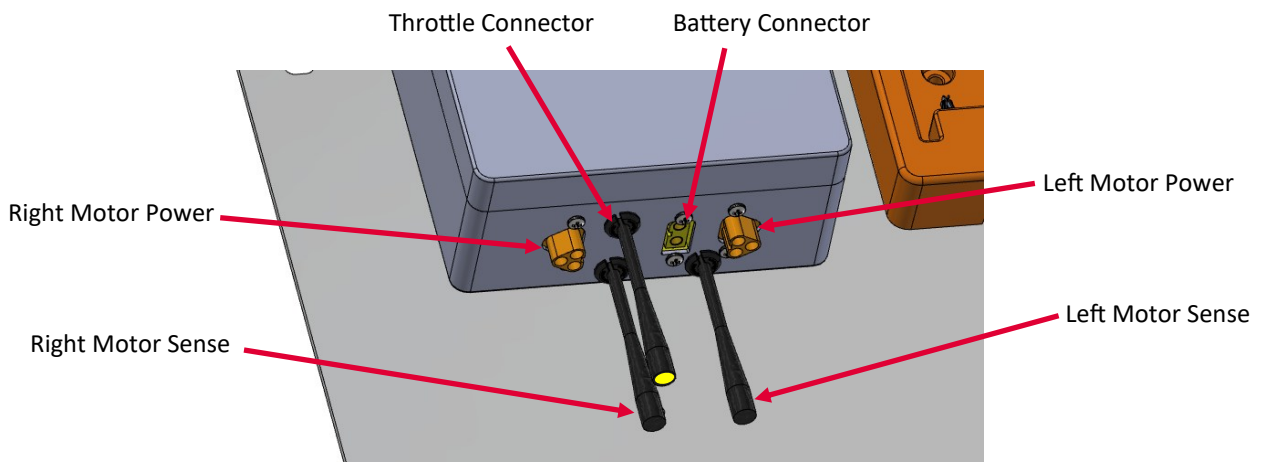
1. Begin by removing the two (2) #10-24 pan head machine screws from the back plate using a #2 screwdriver. Rotate forward and remove the motor guard through the side of the hand truck.



2. Remove the wear strips by removing four (4) #10-24 pan head screws with a #2 phillips screwdriver.

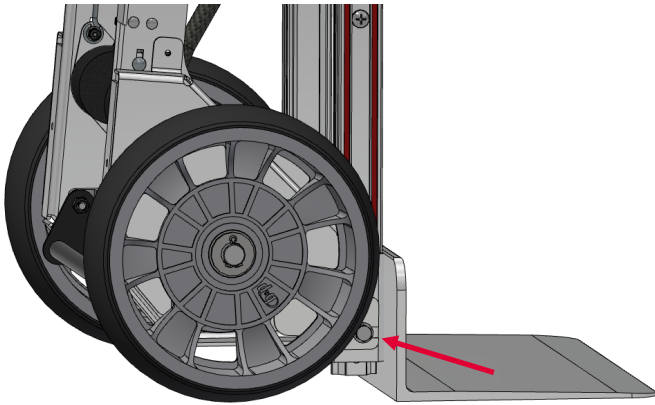
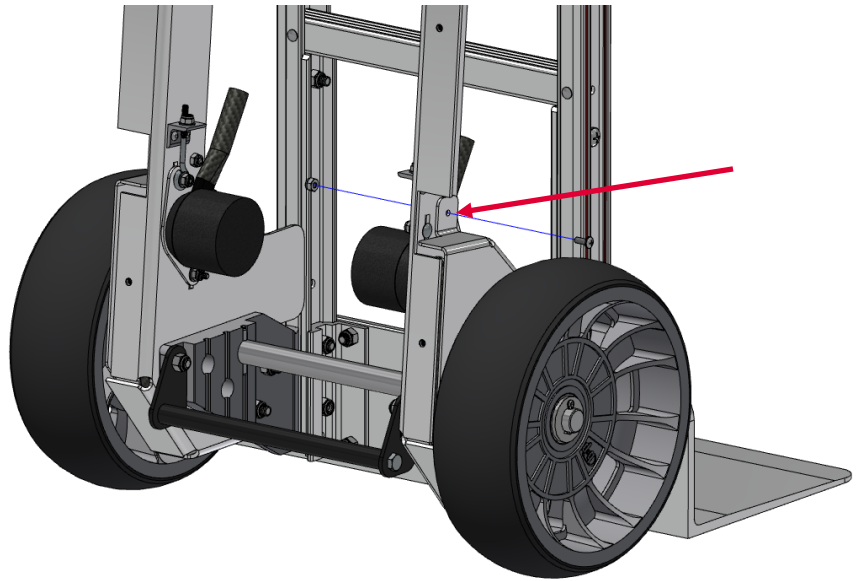
NOTE: Removing these four screws will free the power assembly from the hand truck. Electrical connectors may still be connected.

3. Carefully tilt the power assembly back allowing better access to connectors at the bottom of the electronics enclosure. Unplug the throttle connector and all motor connectors from the base of the enclosure. Remove the power assembly and place in a safe place for reassembly.



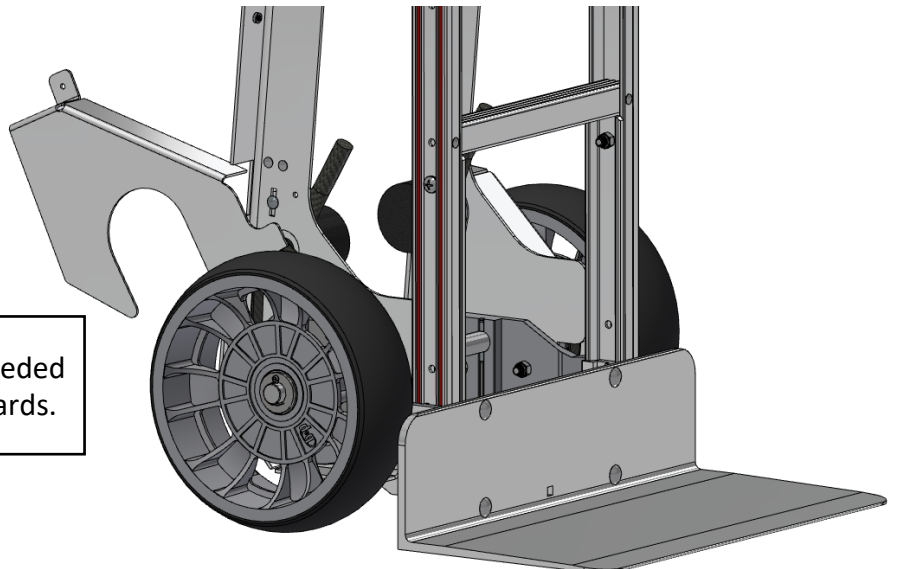
Remove Belt Guards

4. Remove the two (2) #10-24 pan head screws from the top of the belt guards using a #2 phillips screwdriver and a 3/8" wrench.



5. Using a 1/2" socket, remove the lower 5/16-18 bolt attaching the wheel bracket to the frame.

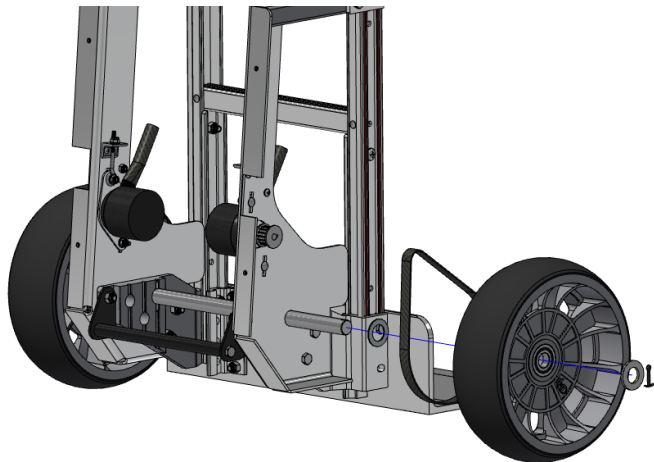
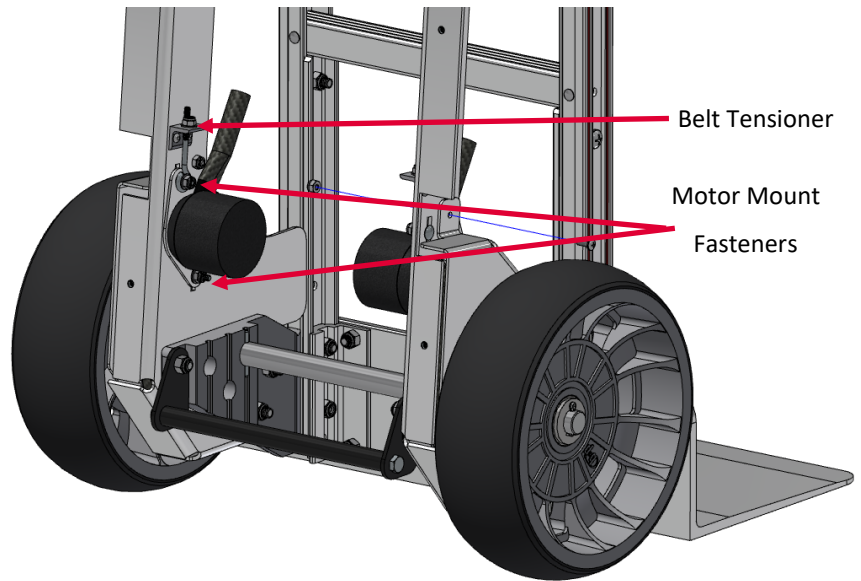
6. Slide the wheel guard out by rotating around the wheel hub and pulling out. Cutouts in the integrated stair climber brackets are provided to facilitate belt guard removal.



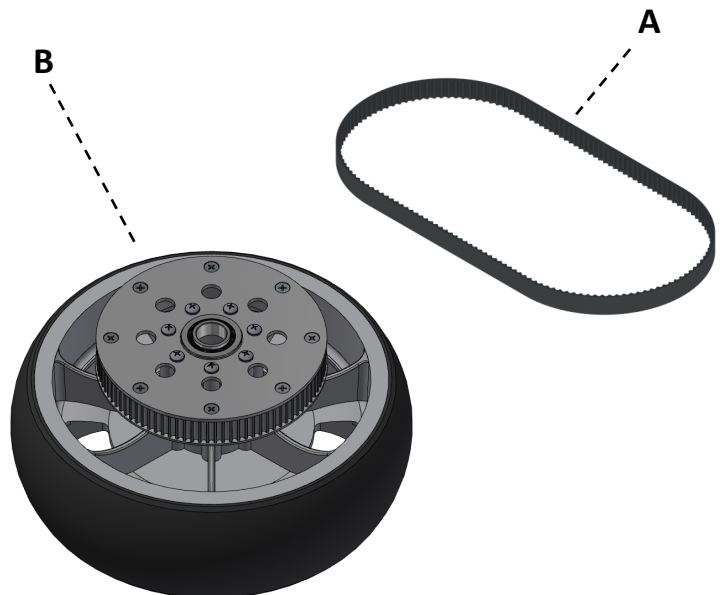
If only one belt or wheel replacement is needed it is not necessary to remove both belt guards.

Remove Wheels & Belts

7. Remove the belt tension by first using a 3/8" socket to loosen (do not remove) the two (2) motor mount fasteners. Loosen the tensioner using the same socket or wrench" Do not remove the belt tensioner nut



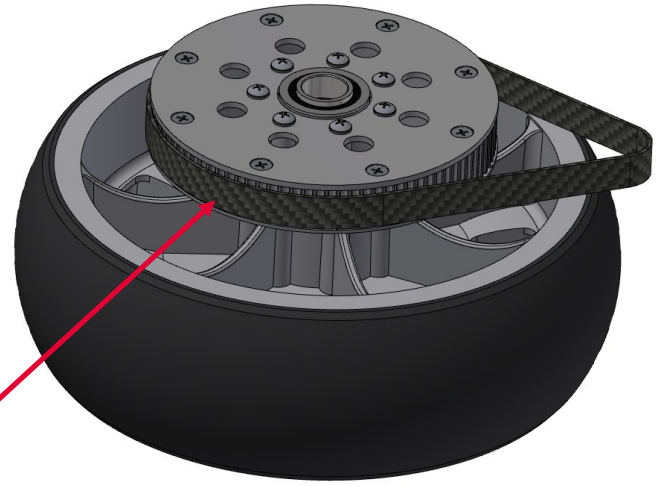
8. Use pliers to straighten and remove the cotter pins holding the wheels (B) on. Remove the wheel and belt (A) together .



At this point the belts (A) or wheels (B) can be replaced, either individually or as a pair.

Reinstall Replacement Wheels & Belts

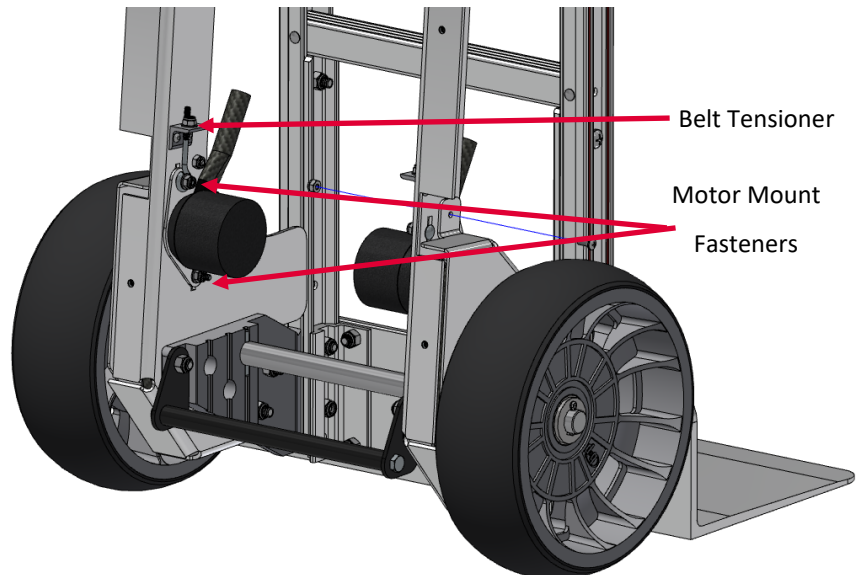
9. Begin the reassembly by first reinstalling the wheel and belt. Align the belt on the wheel pulley. While holding the belt on the pulley, slide the wheel onto the axle and place the belt over the motor pulley. Replace the washer and cotter pin, bending the ends of the cotter pin with pliers to lock it in place.



For easiest installation, ensure the belt meshes with the wheel pulley

10. With the belt seated around both pulleys, slowly tighten the belt tensioner until the belt reaches an appropriate tension. The belt should be tight enough to engage the pulleys without skipping teeth, but not so tight as to hinder motion of the motors or wheels. The wheels should spin freely with little resistance.
11. After tensioning is complete, tighten the motor mount fasteners to prevent the motors from moving. Rotate the wheels several times to check wheel and belt operation.

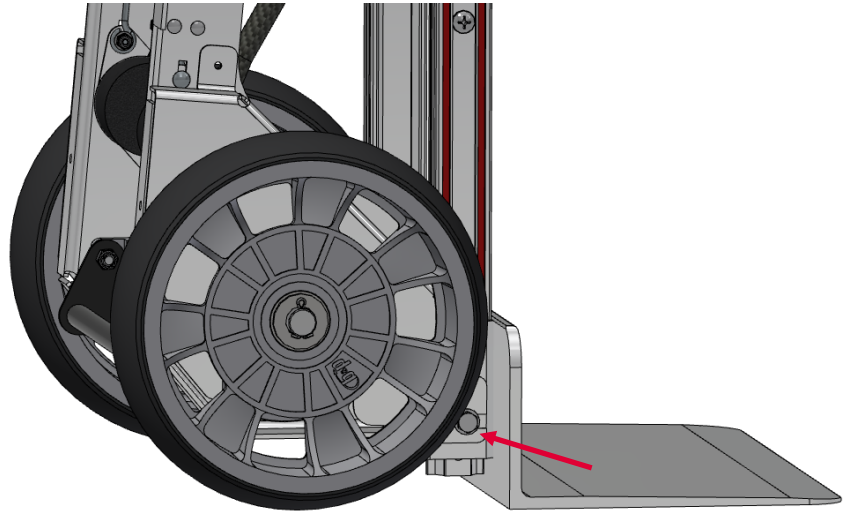
Due to the nature of the design, a small motor resistance will always be present.



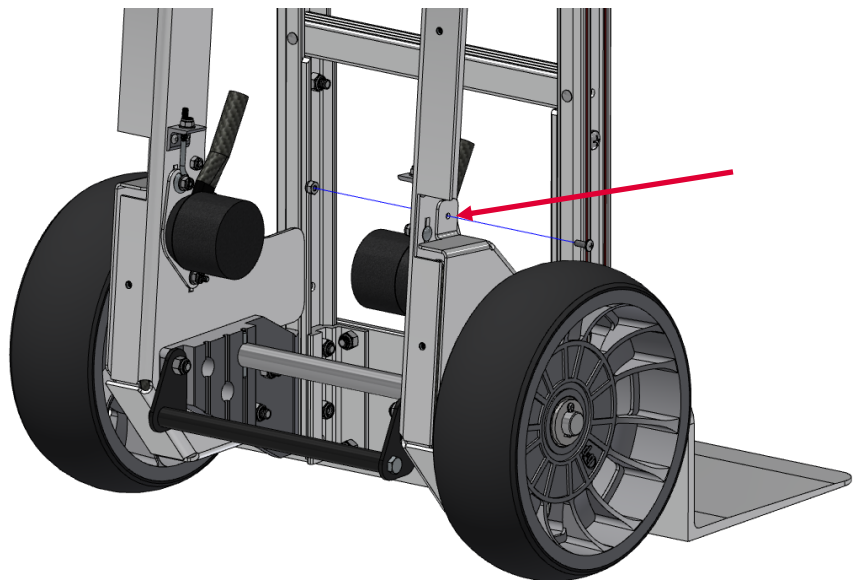
Reinstall Belt Guards

12. Slide and rotate the belt guard into place around the wheel hub.

Use the #10-24 pan head screw in the next step to help locate the belt guard before installing the 5/16" bolt.



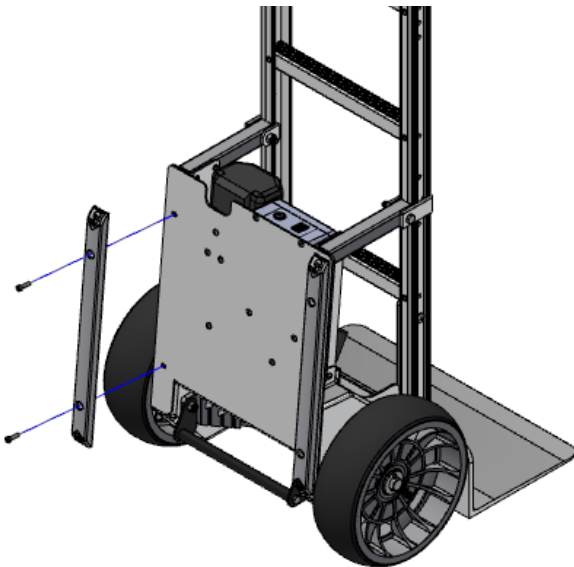
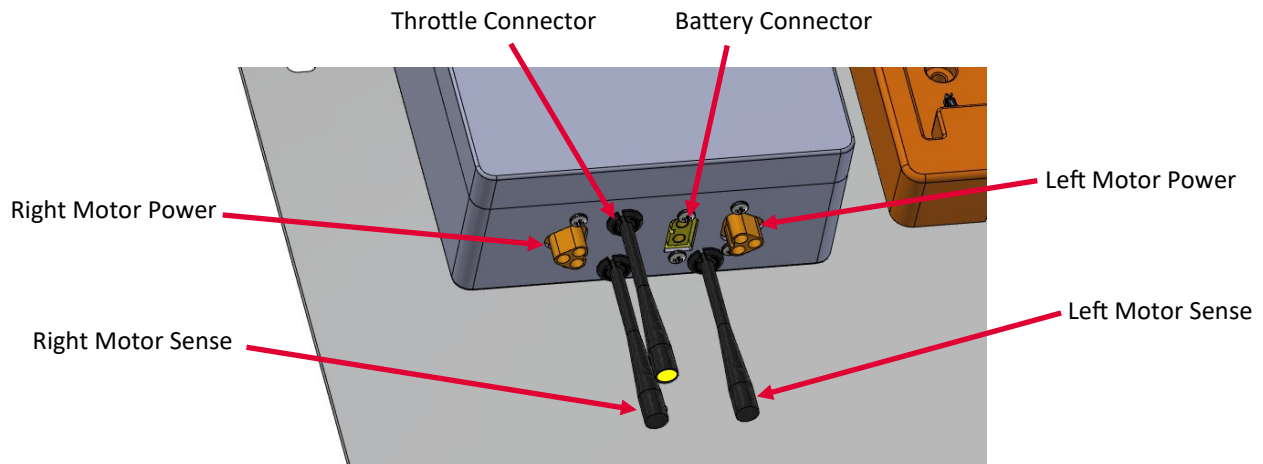
13. At the top of the belt guard, reinsert the #10-24 pan head screw and tighten using a #2 phillips screwdriver and 3/8" wrench. Complete belt guard installation by using a 1/2" socket to tighten the 5/16" wheel bracket bolt from the previous step.



Reinstall Power Assembly

14. Carefully place the power assembly into place, tilting outward to allow access to the connectors. Re-connect motor connectors, the throttle connector, and, if necessary, the battery connector. At this point it is recommended to test operation of the hand truck. Ensure motors and wheels can spin without obstruction. Insert a battery and test all functions of the hand truck.

TIP: Temporarily place two (2) of the #10-24 pan head screws to hold the power assembly in place. These can be used until final installation of the wear strips.



15. With the hand truck operating as expected, reinstall the power assembly and wear strips. Apply a small amount of medium strength thread locker (C) to each of the four (4) #10-24 pan head screws and fasten them through the wear strip and power assembly into the integrated stair climber. Tighten with a #2 phillips head screwdriver.

Completing Reassembly

16. Replace the motor guard by sliding it in through the side of the hand truck and rotate it back into place. Ensure the tabs at the bottom of the motor guard are inserted into the slots at the bottom of the power assembly. Rotate the motor guard back to the power assembly over the motors while avoiding pinching any of the cables or connectors. Using a small amount of medium strength thread locker on each, replace the two (2) #10-24 pan head machine screws through the back plate, securing the motor guard. Using a #2 screwdriver to tighten. Complete reassembly by securing the throttle cable between the integrated stair climber and the electronics enclosure and ensuring all other wires are safe and secured.

