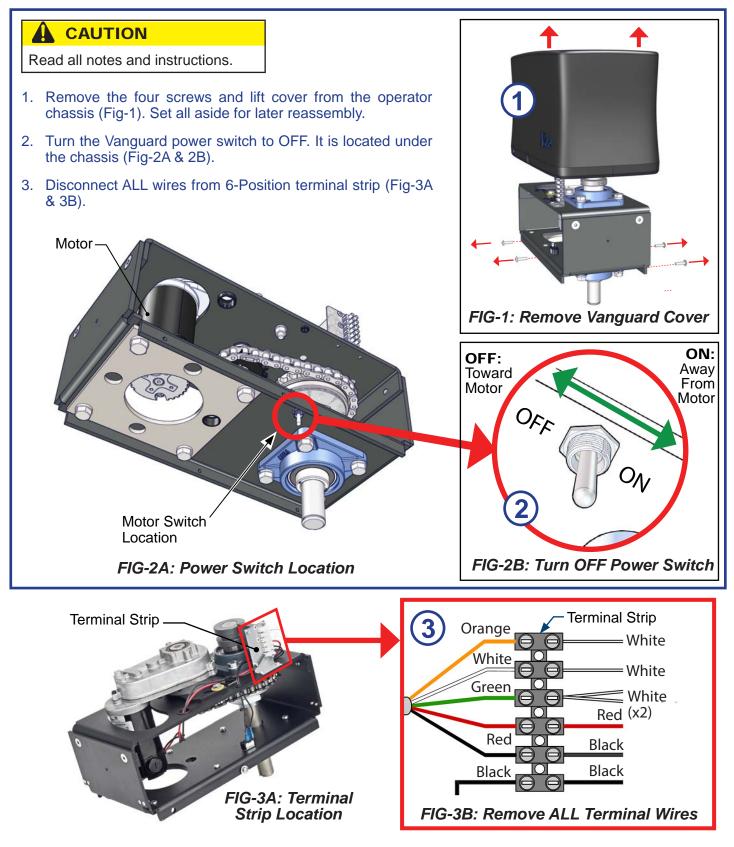
Vanguard Motor Replacement Instructions

These instructions are provided to enable replacing the older Vanguard motor/gearbox with the newer one.



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- 4. Loosen the two motor mount bolts in the crescent slots (Fig-4), and move motor slightly in direction shown to loosen up the chain.
- 5. Find the master link on the chain (Fig-5A), slide off the master link pin (Fig-5B) from the master link and remove chain.
- 6. Loosen the two set screws in the small sprocket and remove sprocket from drive shaft (Fig-6). Remove the shaft key from the shaft and retain for later reassembly.

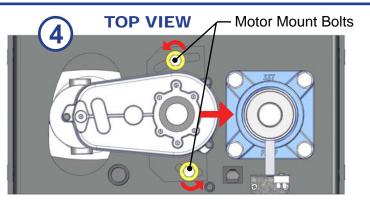


FIG-4: Loosen Motor Mount Bolts & Move Motor

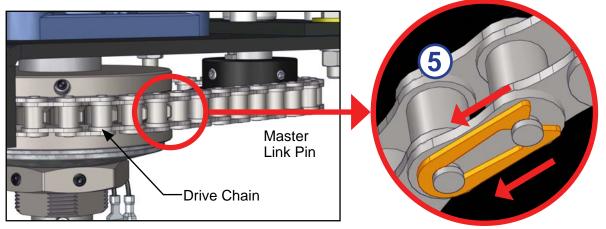


FIG-5A: Master Link Location

FIG-5B: Remove Master Link & Chain

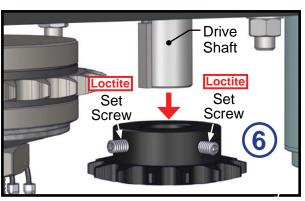
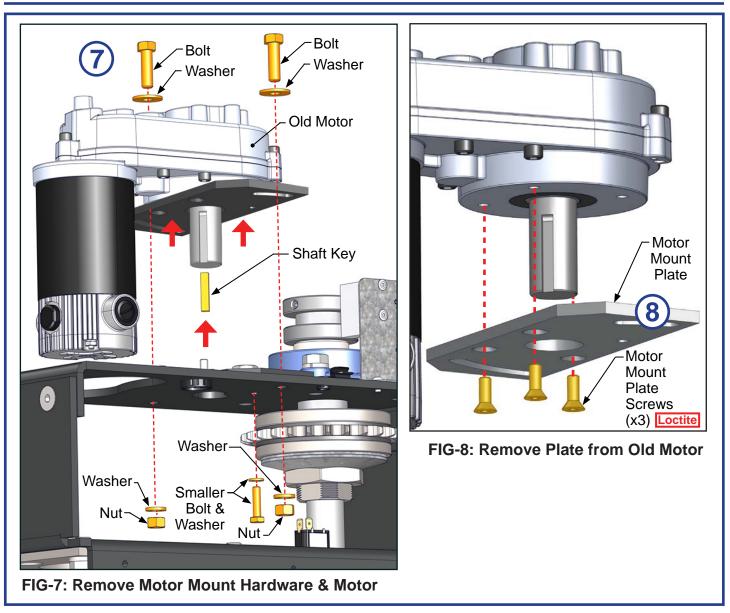
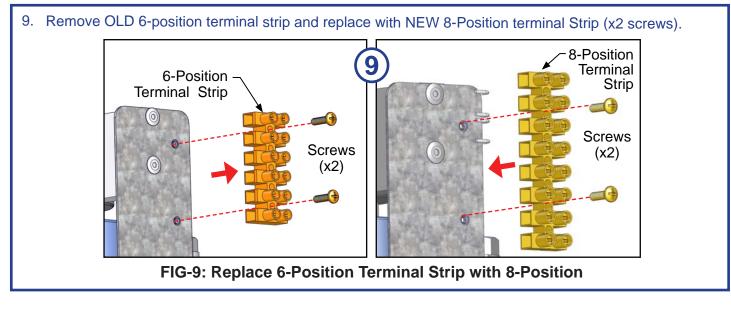


FIG-6: Remove Smaller Sproket

- 7. Remove motor mount hardware (Fig-7) including two larger motor mounts (bolts, washers and nuts) and the smaller bolt and washer (underneath), then lift the old motor/gear assembly from the top of the chassis.
- 8. Remove the three screws from bottom of motor mount plate (Fig-8), then remove plate from motor (retain parts). NOTE: Loctite is applied to these screws. These three screws



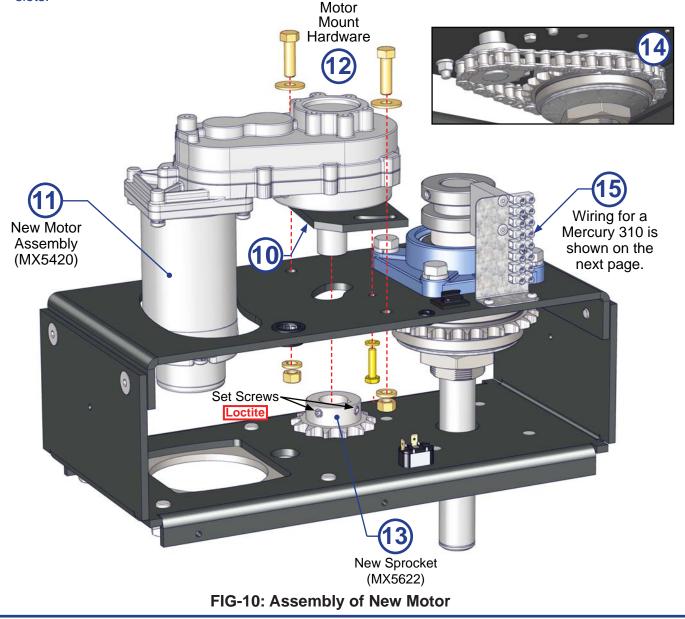


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NOTICE

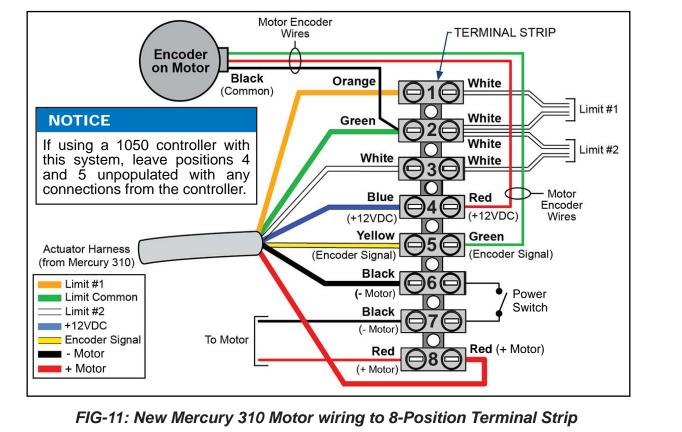
Assembly of new motor is a reversal of the disassembly of old motor, so the following instructions are simplified and accompanied by an exploded diagram showing all parts.

- 10. Apply Loctite to the three recessed screws and use to install the motor mount plate removed in Step 8 onto the new motor. Ensure correct holes are populated per Fig-8).
- 11. Install the new motor/gear assembly into the chassis as shown (Fig-10).
- 12. Install all bolts, washers, and nuts removed in Step 7 (Fig-10). Leave bolts in crescent slots untightened.
- 13. Install the shaft key (retained in Step 6) into the shaft, then apply loctite to both set screws and use to install the NEW small sprocket (P/N MX5622) onto the drive shaft.
- 14. Retrieve and install the NEW chain onto large and small sprockets and fasten the master link, move the entire motor assembly (via the crescent slots) to tighten the chain, then tighten the bolts in the crescent slots.



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- 15. Connect all wires to the 8-position terminal strip, as shown in Fig-11.
- 16. Replace cover and four screws to finish this retrofit operation.



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