

STEP 1



Disconnect the black plug from the motor. Remove both 1/4 head screws from For/Back motor.

STEP 3



Remove both rubber tube holder clips. Be careful not to break off the clip fingers. Leave the rubber tubes attached to each clip

STEP 2



This side of the motor and both tube ends have heat shrink securing the tube to each respective end. You do not have to detach the tube from this end of the motor. Leave it attached. You can however pull the tube out of the motor end as shown in step one.

STEP 4



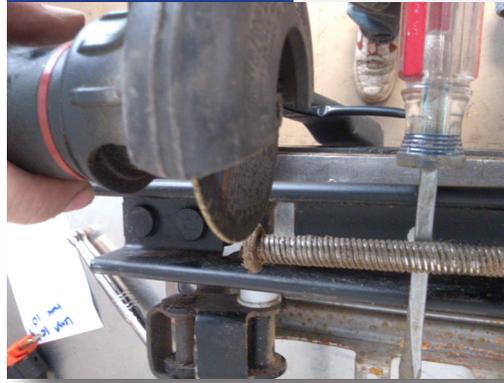
The motor and tubes should look like this after removal.

## STEP 5



Remove the T50 torx head bolts. Mark each slide and the track to remember which end goes to the front of the track and what slide is for the left and right side. Remove the slides. If they won't come off in one direction, slide them off the other way.

## STEP 7



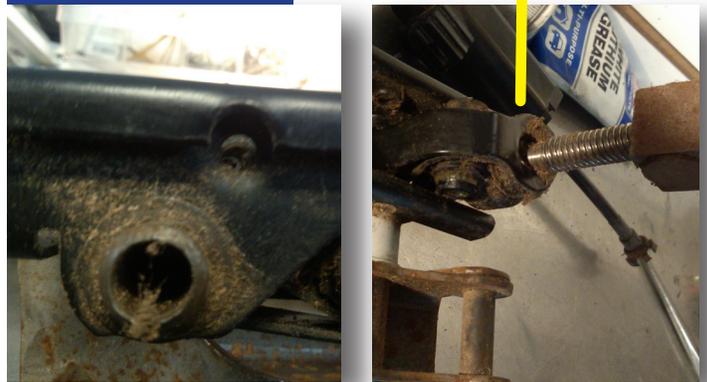
***Cut the washer end of the shaft off and unscrew the block nut from each shaft.***

## STEP 6



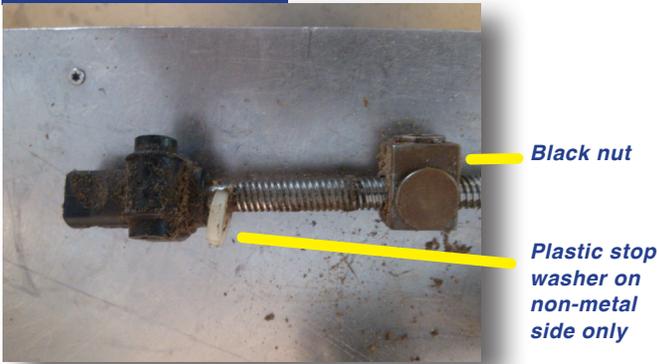
Clean the slides off all dirt and debris.

## STEP 8



Use a small drive punch and drive the roll pin towards the center. Once removed, lift the gear/shaft out of the metal strap(one side only) and frame.

## STEP 9



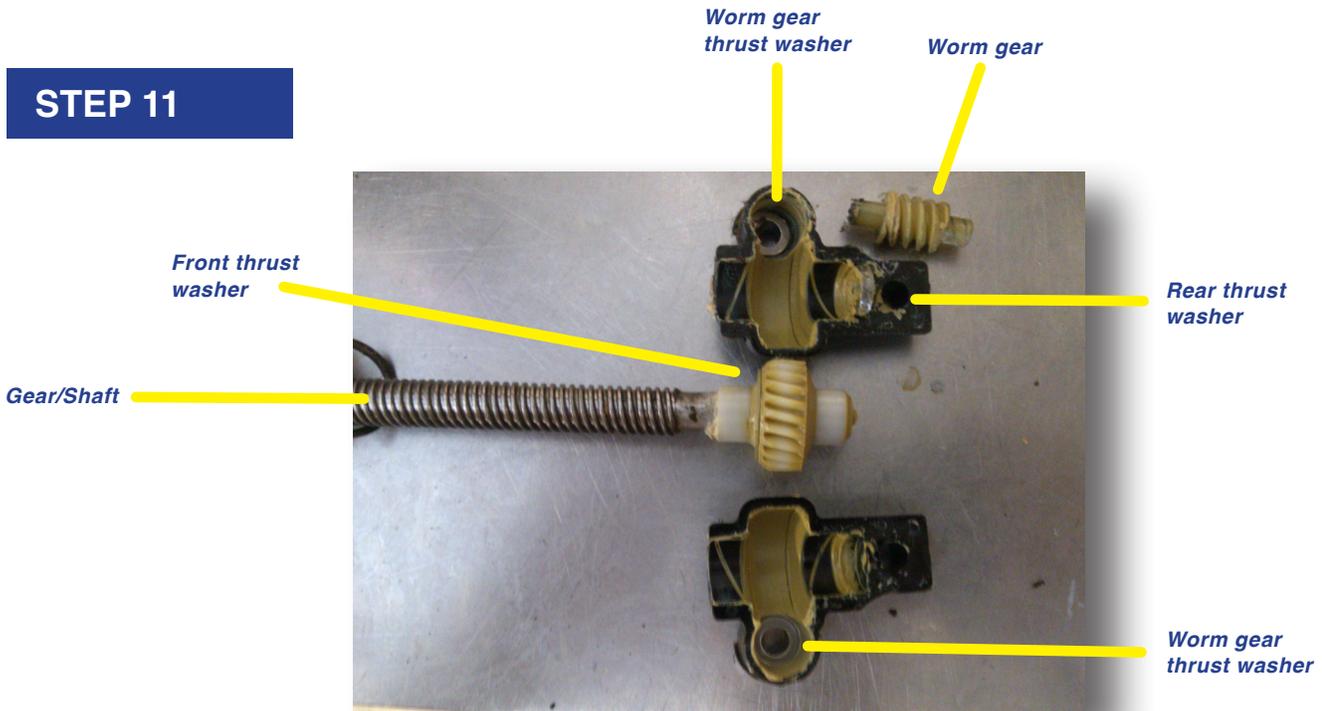
## STEP 10



Carefully snap off the plastic washer stop. It must be reused.

Carefully pry the locking rings off each side the gear casing. These rings must be reused.

## STEP 11



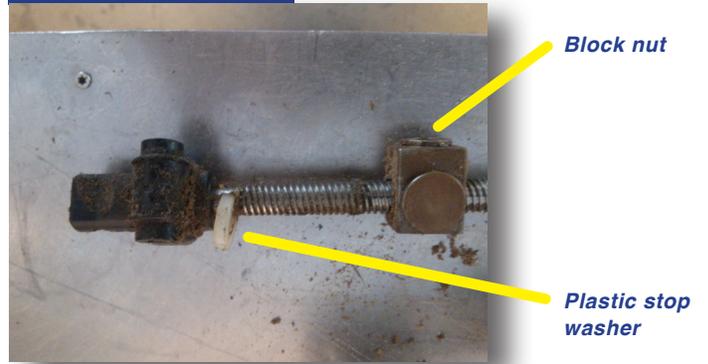
Separate the gear casing. Remove the bad gear/shaft and reassemble with the new one. Everything is reused except the shaft/gear and small plastic worm gear. Use white lithium grease for reassembly. Do not use bearing grease; it will break down the plastic gear.

## STEP 12



Slide the locking rings onto each side the gear casing. Note the inner raised edge points away from the center housing.

## STEP 15



Snap the plastic stop washer back onto the shaft next to the gear case. Screw the block nut back onto the shaft.

## STEP 13



Use a 1/2 drive 13/16 deep well socket and gently drive the ring back onto the gear casing.

## STEP 16



Install the plastic washer, metal washer and external squeeze ring onto the shaft. Make sure to squeeze the ends together to seat the ring in the groove.

## STEP 14

Slide the gear casing back through the metal strap(one side only) and insert the assembly into the channel. The 1/4 pin your removed in step 8, must be reinstalled. Drive it back into the channel and through the gear casing. Make sure the pin is centered in the metal channel.

## STEP 17



Measure from the gear casing to the block. Adjust both sides to the same measurement using the same points. The gear case can be manually turned by using one of the flexible drive shafts.

## STEP 19



Attach the tube clips back onto each gear casing. Make sure the flexible shafts are fully seated into the worm gear

## STEP 18



Reinstall the floor slides back onto the seat track. Use your markings from step 5 to get each slide onto the correct side and pointing the correct direction. Reinstall the torx head bolts. Do not over tighten the torx bolt going into the plastic travel block. It is easily stripped out.

## STEP 20

If both shafts are fully seated, the bolt holes in the motor will line up with the mounting bracket easily. Tighten the motor up to the bracket with the  $\frac{1}{4}$  screws you took out. Plug the electrical connector back into the motor. Do not over tighten the  $\frac{1}{4}$  screws.

Please contact me at [rustyhubgarage@gmail.com](mailto:rustyhubgarage@gmail.com) with any issues.