

Robot Assembly Mechanical

A Tools required to assemble robot

B Blue Track support bearings
Green Track
Red Main robot support structure

C Parts for robot construction

D Side support structure

E Main support beam for robot

F Connection of beam to side support structure

G Placement of parts for example chassis

Blue Track support bearing structure
Green Low profile hex bolts for motor support and one Open Beam support
Red Hex bolt locations for Open Beam support

H View of assembled structure

I Placement of nuts in Open Beam to support attachment of plates

J Track bearing assembly

K Track bearing assembly placed on side support structure

L The main drive wheel's grub screws should be aligned onto this flat

M Detail of gap between drive wheel and low profile bolts, achieved using spacer.

N Location of two grub screws used to attach main drive wheel to drive shaft.

O Detail of connection cables from DC motors at a 90 degree offset

P Detail of track assembly, note slot used to adjust tension of belt.

Q Top plate mounted on top of robot

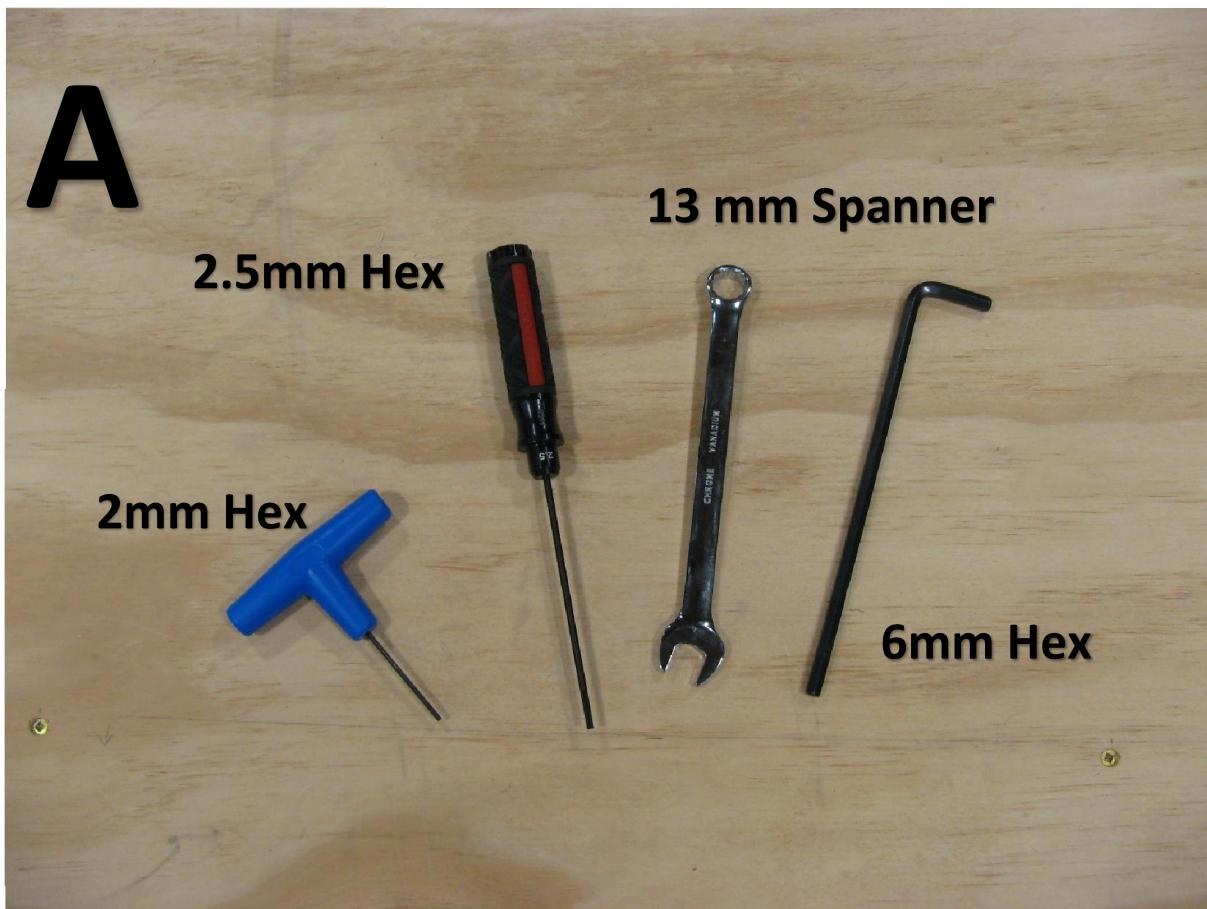
A

2.5mm Hex

2mm Hex

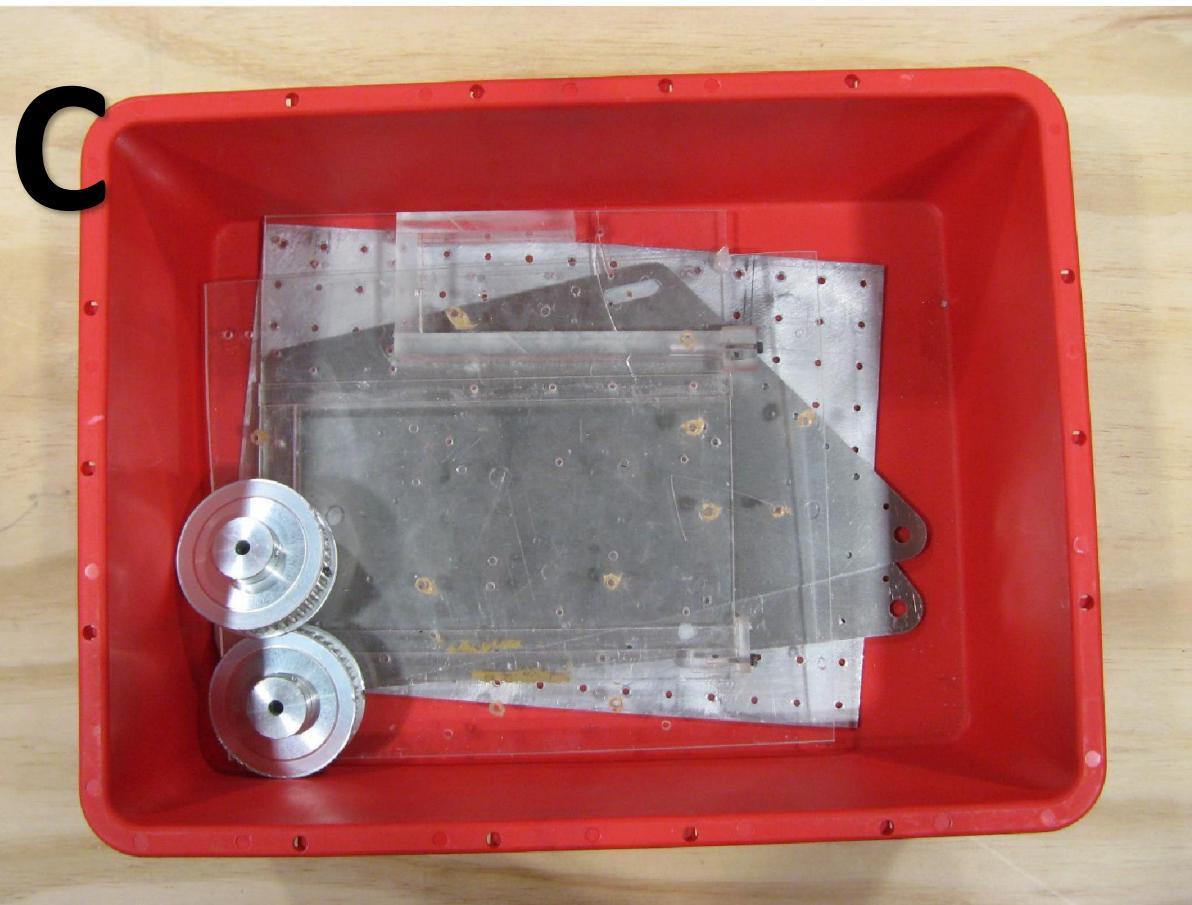
13 mm Spanner

6mm Hex



B





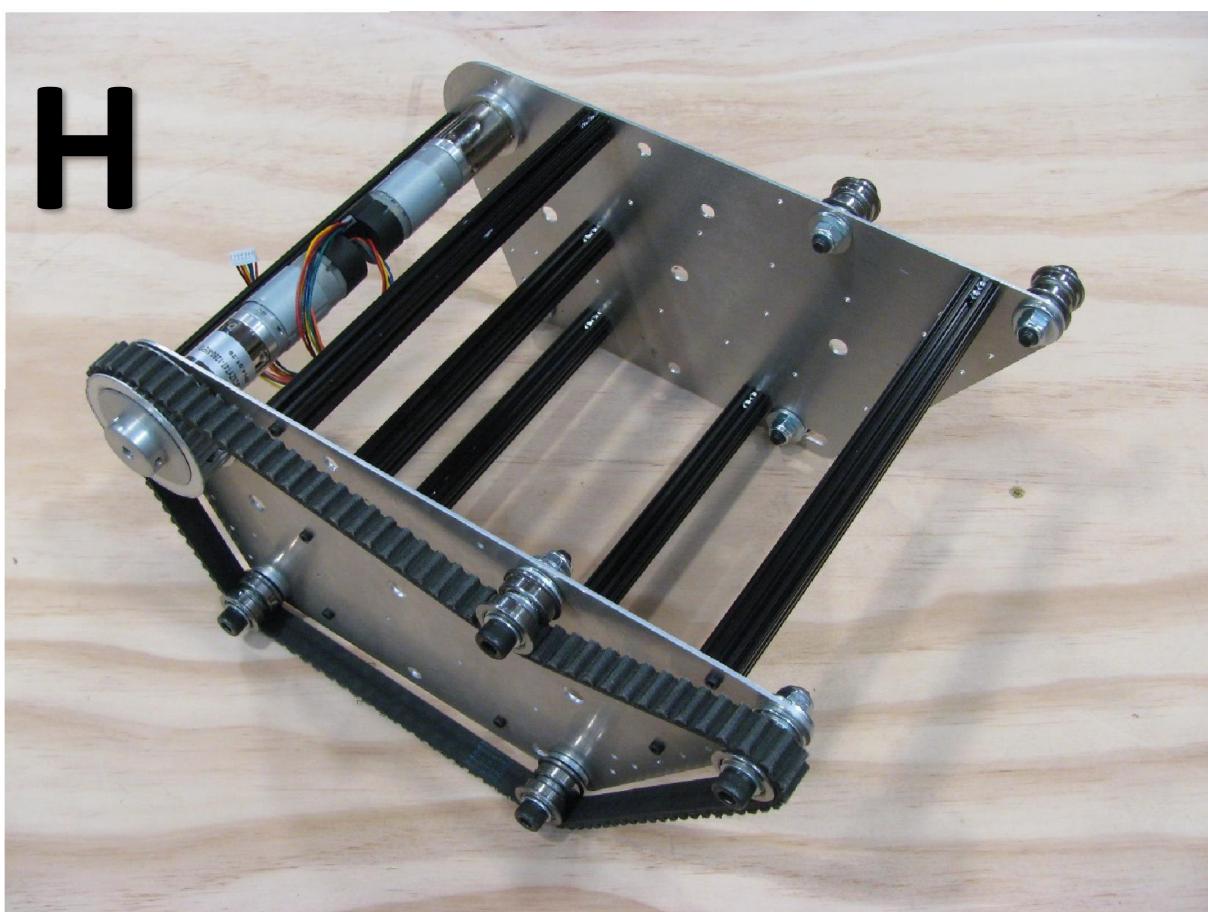
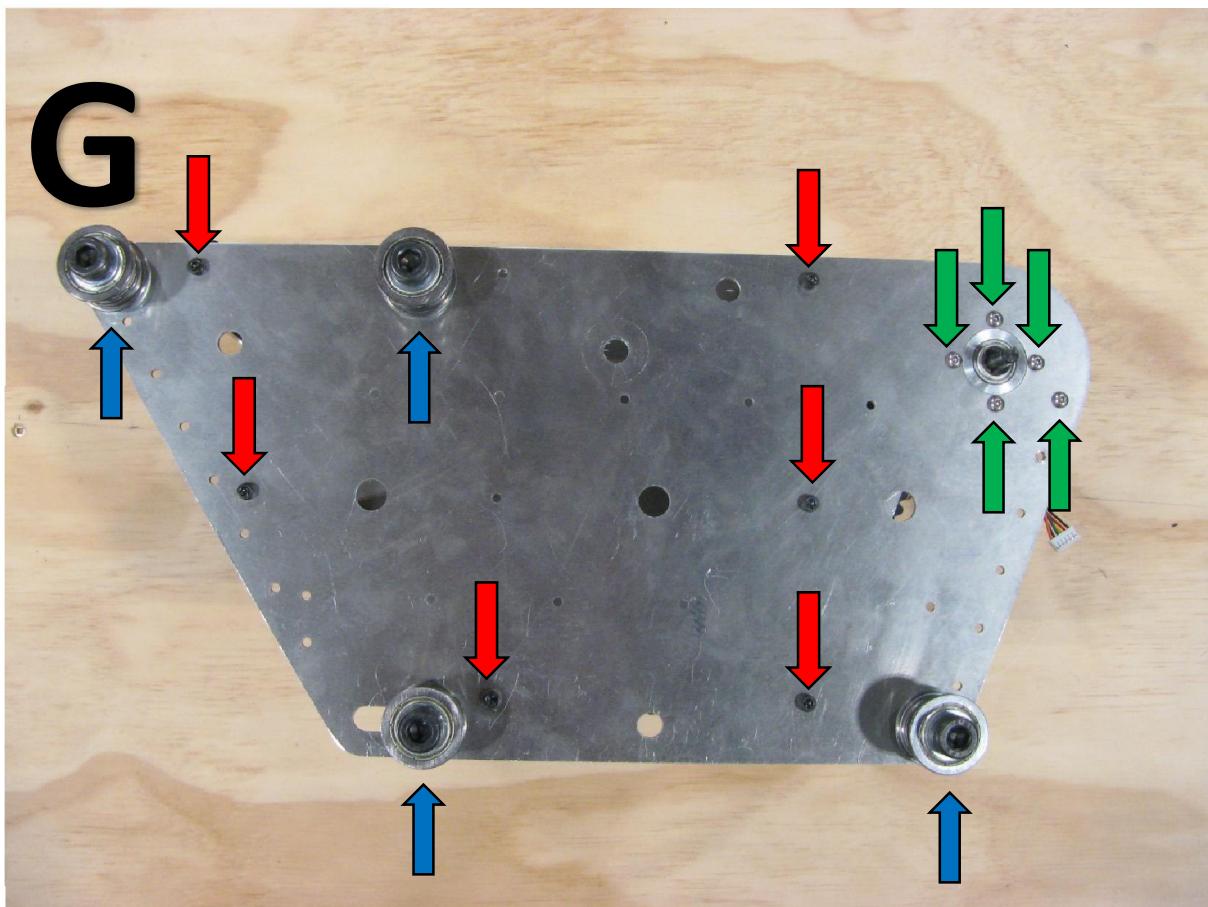
E

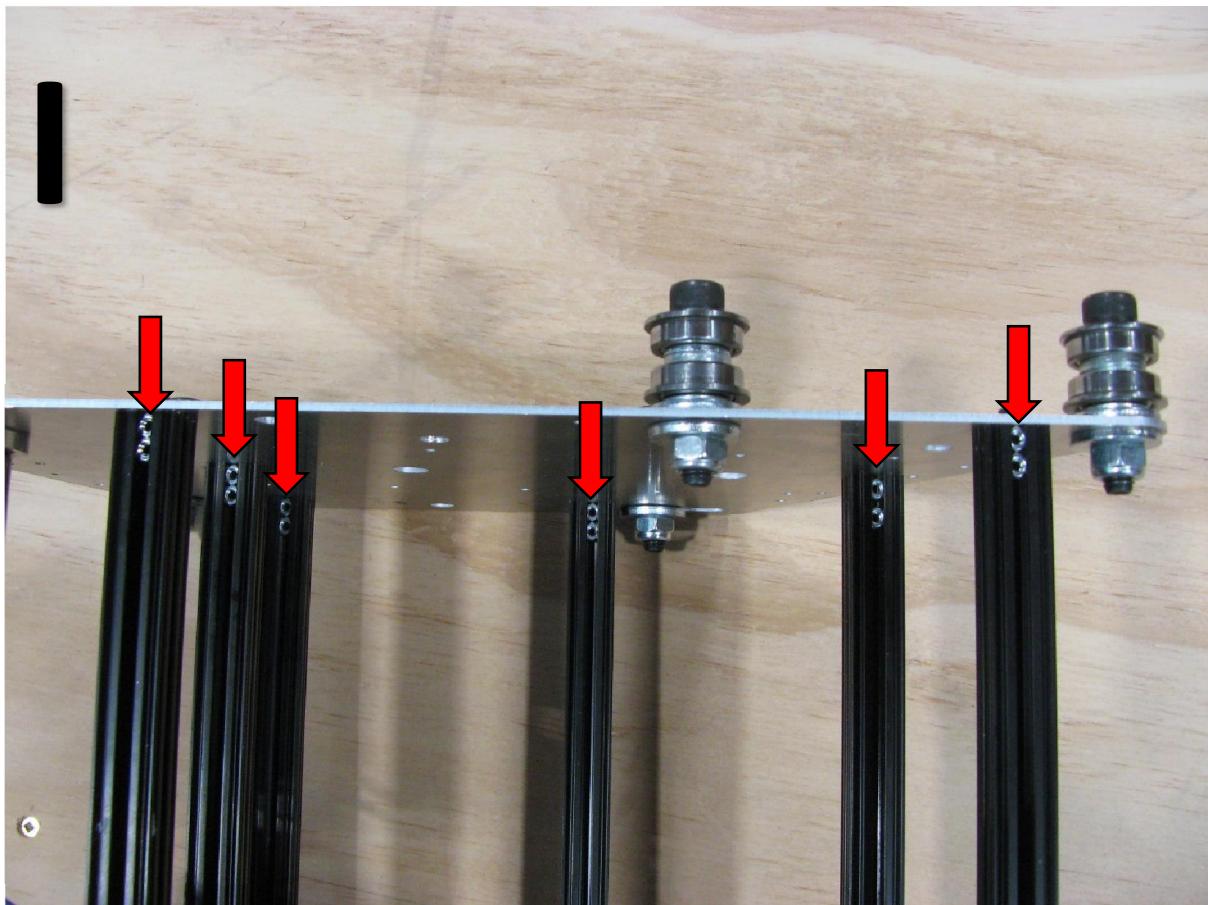
M3 *12 mm Bolt

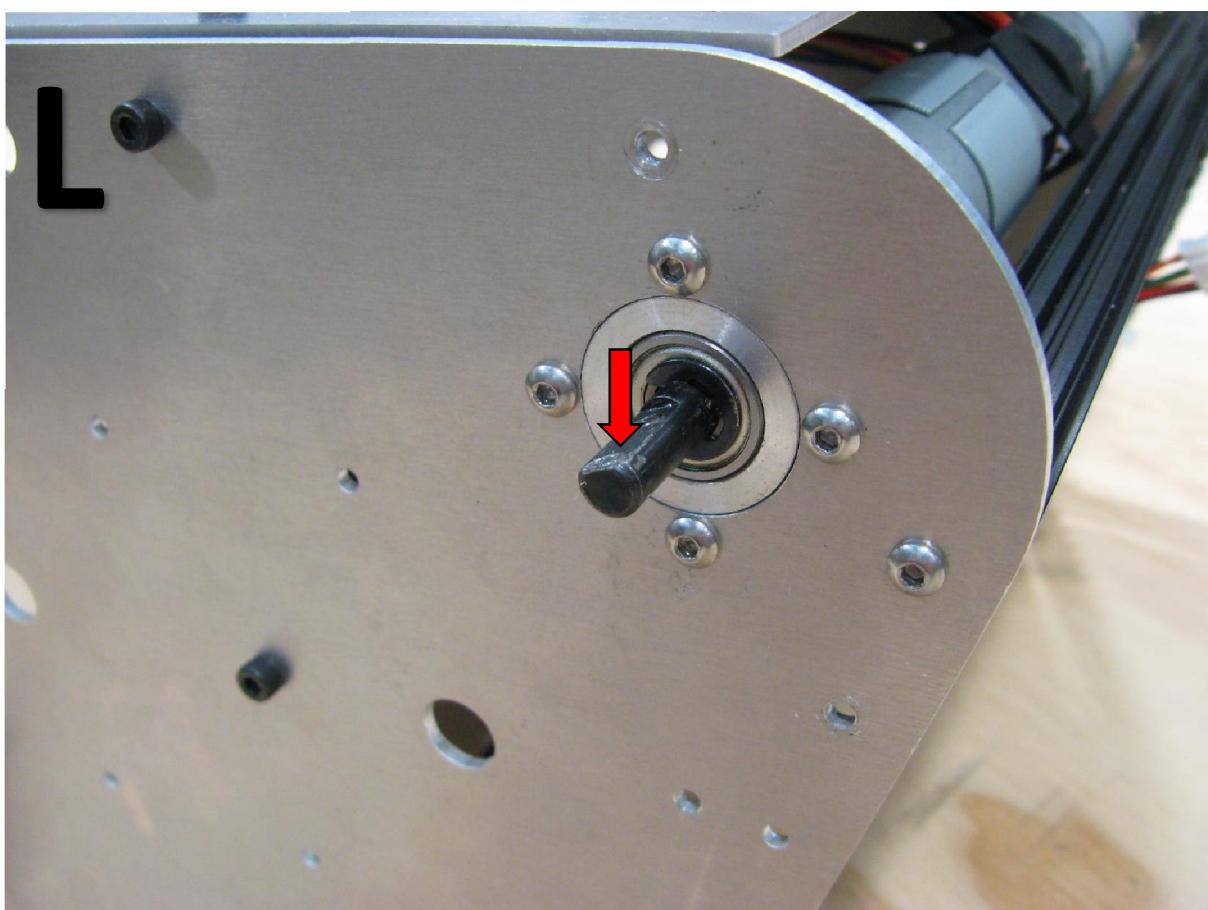
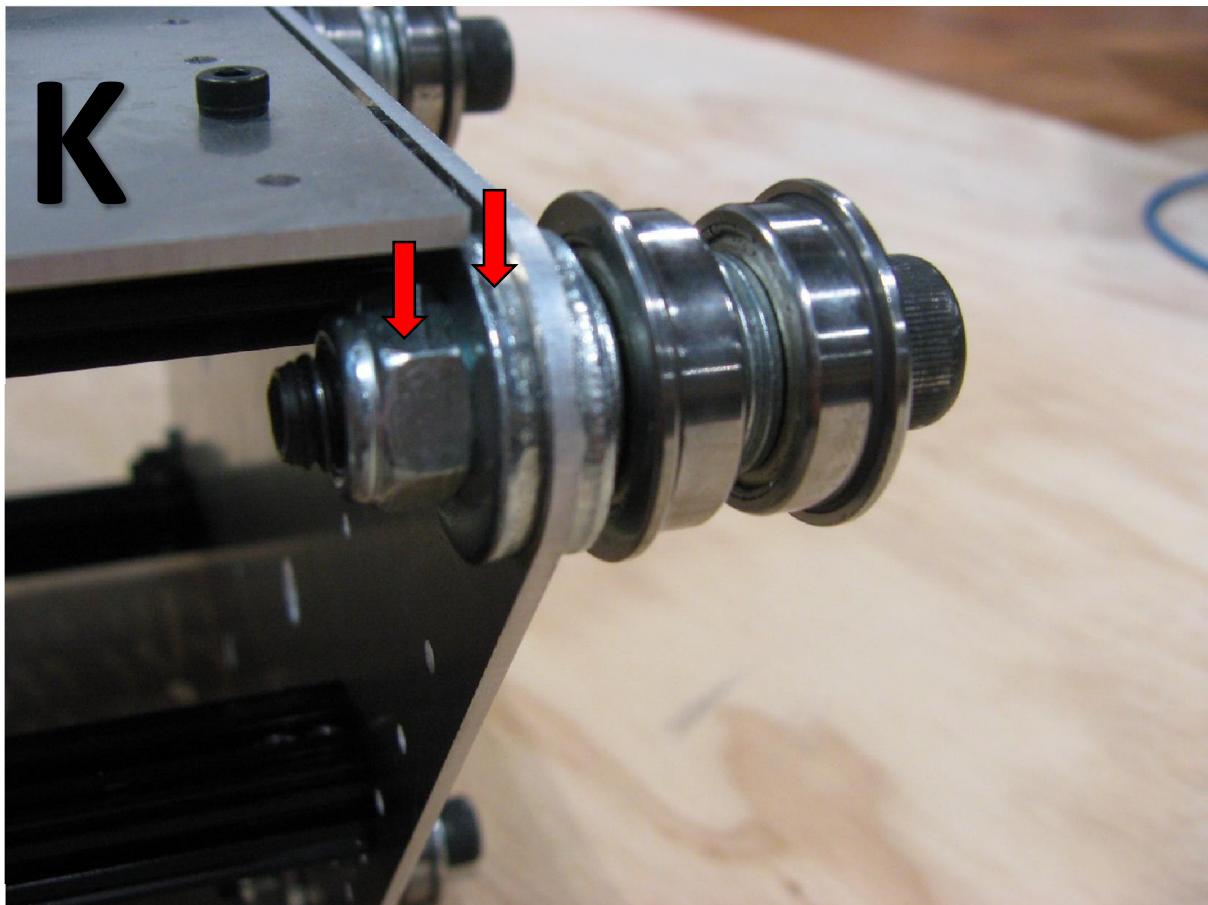
Maker Beam 223mm

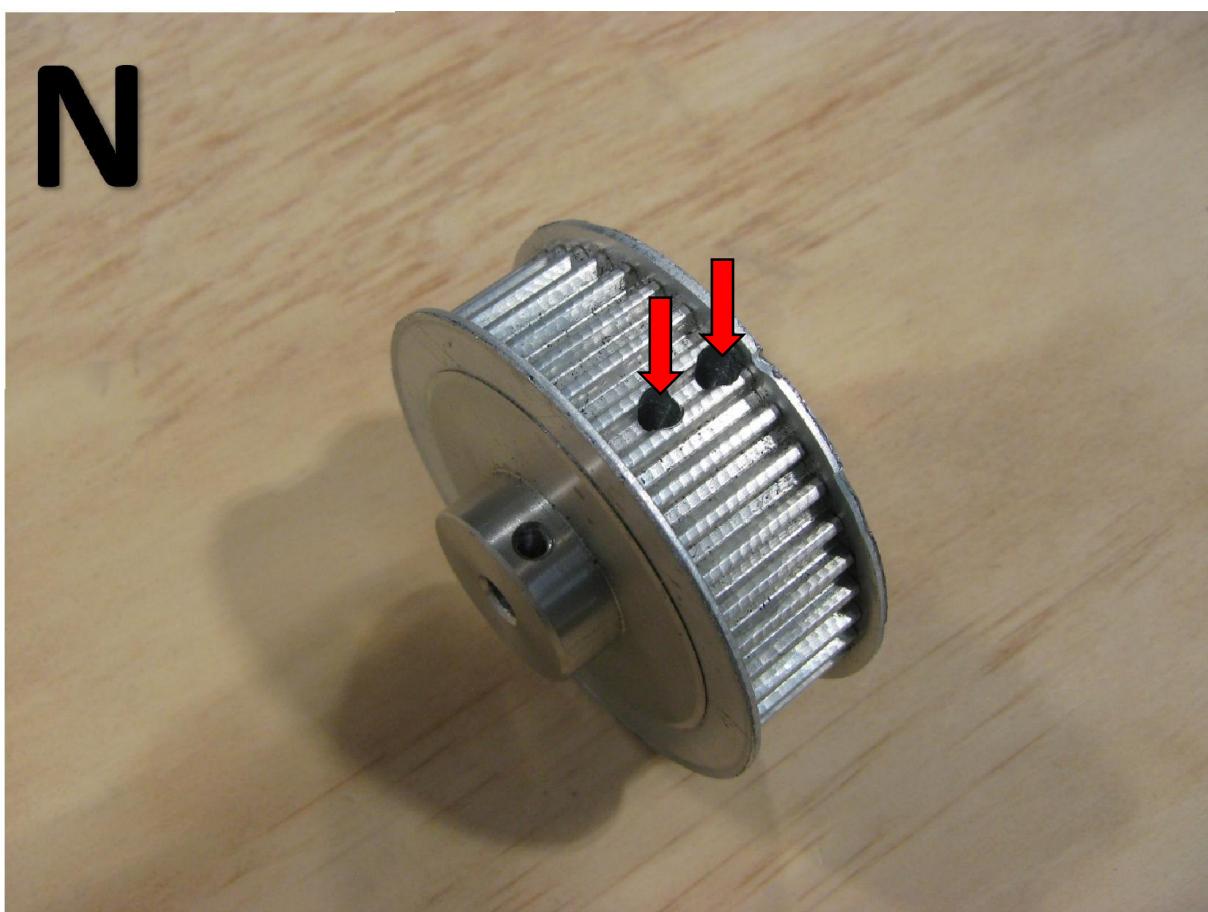
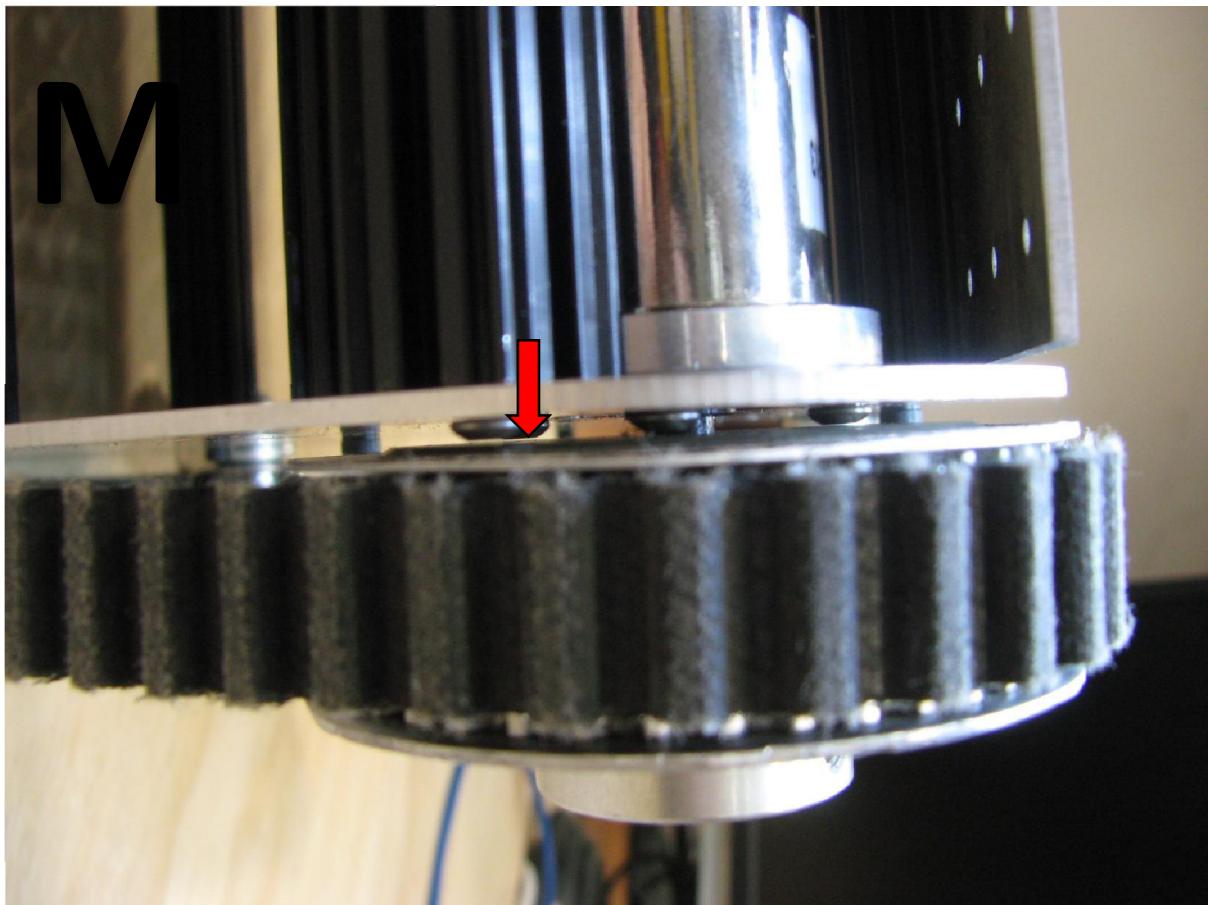
F



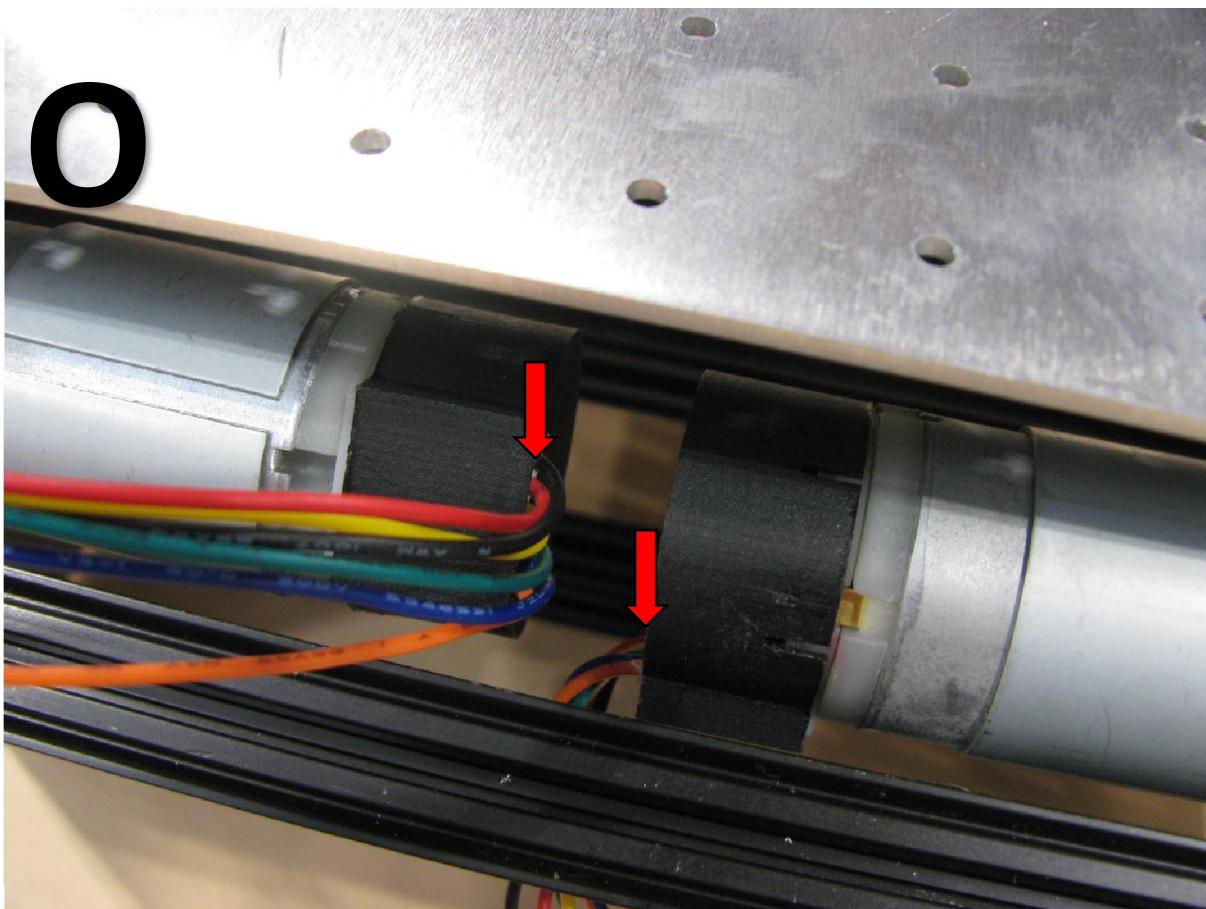








O



P

