

torque tube and associated dial face can then be installed.

When using the torque meter, the motor anchor will rotate as the motor is wound. When the target torque has been reached, the anchor gear can be locked using the locking arm. Simply rotate the arm until the blade engages the anchor gear. That makes it easier to attach the motor loading channel/stick to the motor twist lock anchor.

After the wound motor has been transferred to the loading stick/channel, it is transferred to the model. Rotate the motor so the rear twist lock anchor is vertical as shown.

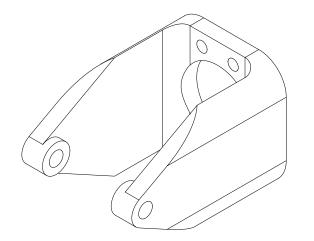
Insert the motor into the model's fuselage. Push the loading stick/channel into the model until the twist lock anchor rests against the fuselage motor peg. Rotate the loading stick/channel 90 degrees clockwise. Lightly pull on the loading stick/channel to make sure the twist lock anchor has engaged the motor peg.

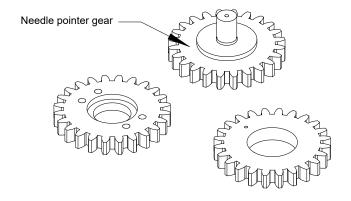
Attach the prop to the forward end of the motor. This can be done with a Crockett style hook, a Gizmo Geezer prop coupler, or some other preferred method of attaching the motor to the prop hook. Hold the prop and pull the forward end of the motor away from the loading stick/channel. Slide the loading stick/channel out of the fuselage.

After your flight the motor is removed from the model's fuselage by simply pulling the motor peg.

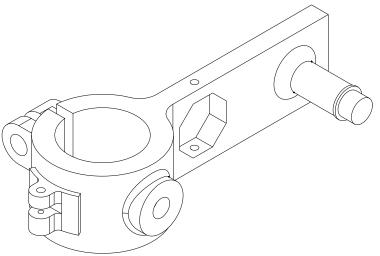
It is possible to set up the torque meter for winding in the clockwise or counter clockwise directions. This can be useful for multi-motor models, or pushers. Use the appropriate torque tube and dial face setup and zero the pointer at top center on the dial face.

## **NOTES FOR THE 3D PRINTED PARTS**





The motor anchor should be printed in this orientation. That provides the best strength based on the orientation of the filament lines as they are laid down during the printing process. It is recommended that supports be used.



Use supports when printing the backbone. Print orientation should be as shown to get the best strength from the filament lines.

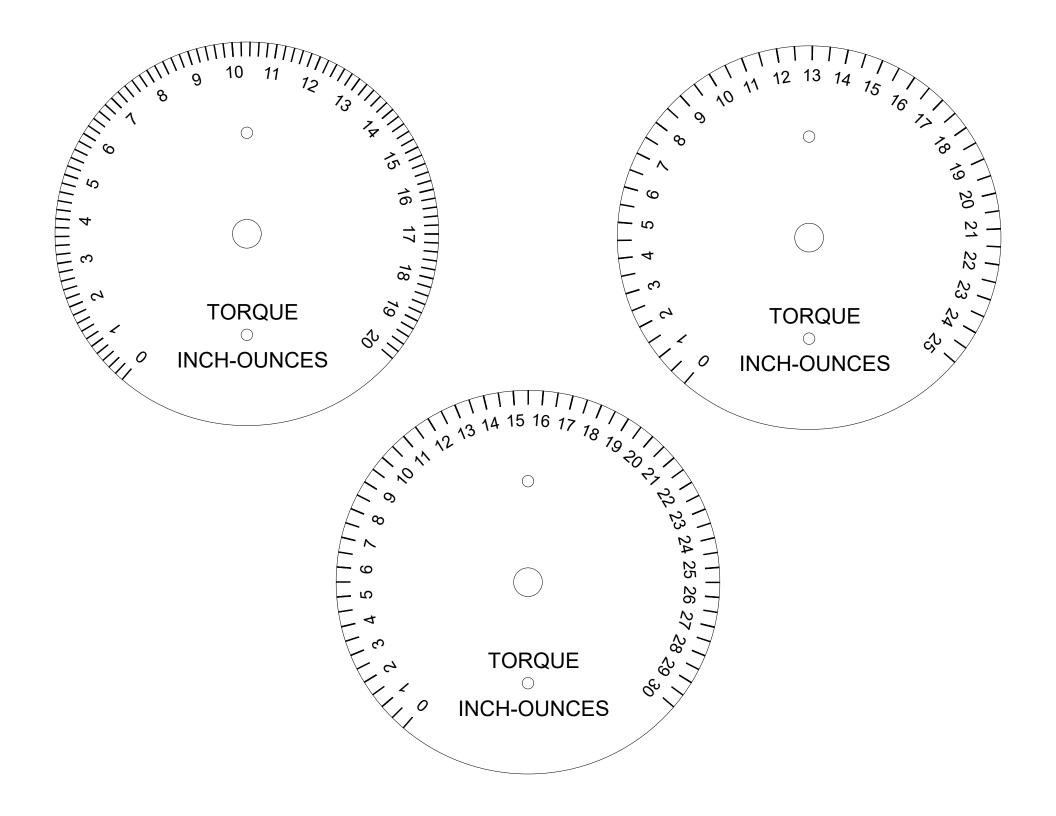
When printing the gears, supports should be used for the needle pointer gear.

Selection of the filament material when printing the torque meter parts should be based on the torque range that will be used. For the higher torque ranges, it is suggested that carbon fiber filled polycarbonate filament be used.

## PARAMETERS FOR ALTERNATIVE TORQUE RANGES

	TORQUE TUBE LENGTHS		WIRE DIAMETER
10 INCH OUNCES		- 3.177 IN	.025 IN
15 INCH OUNCES		2.118 IN	.025 IN
20 INCH OUNCES		1.588 IN	.025 IN
25 INCH OUNCES		3.411 IN	.032 IN
30 INCH OUNCES		2.843 IN	.032 IN





## PARAMETERS FOR ALTERNATIVE TORQUE RANGES FOR WINDING CLOCKWISE OR COUNTER CLOCKWISE

