

Tail Transmission
Output Shaft
[HW3059A]

M3x4SS Set Screw
(small hex key)



Tail Rotor Output
Gear [HW3057]

5x13 Ball Bearings
x 2 [CNBB1350]

Output Shaft
Spacer
[HW3059A]

Torque Drive
Coupler
[HI3154]

Step 11B Torque Drive Pinion Gear 50

From parts bag 2, Using threadlock, insert one 3x4mm Set Screw (**Tip 1**) into the gear. Note where the flat spot is on the shaft, slide the gear on and tighten the set screw. **Make sure the set screw is positioned over the flat spot.** Slide two Ball Bearings onto the shaft and install into one half of the upper frames. Next add the spacer, apply threadlock to the 4x4mm set screw and insert into the torque drive coupler. Slide the drive coupler over the long flat spot until there is no end play in the shaft and tighten the set screw in place.

Step 12 Counter Gear Assembly

From parts bag 2, assemble the engine drive gear assembly. Start by pressing the guide pin into the hole in the end of the Drive Shaft. Insert the shaft through the Counter Gear (**make sure the pin is fully seated in the recessed side of the gear**) then slide the two M5x13 Ball Bearings followed by M5x7 spacers. Insert one 3x4mm Set Screw (**Tip 1**) into the Alloy Drive Gear, then slide the gear onto the shaft taking care to position the set screw over the flat spot on the shaft.

Alloy Drive Gear 13T
(use on 30) [HW3045]

Alloy Drive Gear 14T
(use on 50) [CN2224]

M5x7
Spacer x 2

Tip 1
M3x4SS Set
Screw (small
hex key)

5x13 Ball
Bearings x 2
[CNBB1350]

Counter Gear 55T
[HI3040]

Drive Shaft
[HW3042]

M2x12 Pin
[HI3040]

Tip 1 Test fit the gear assembly into one half of the upper side frames. While holding the pinion gear, try to slide the counter gear up and down on the shaft. The gear should not slide up the shaft, if it does, readjust the top pinion to remove the slop and re-tighten the set screw using threadlock. It is important that there is minimum free play but the bearings are turning freely when assembled. Apply a small amount of red locktight to the top of the counter shaft and insert into the pinion gear.(not the set screw).

Tip 2 Expert tip, once all components are in their final position, using a needle apply one drop of blue threadlock carefully at the joint between each bearing and the shaft. **Warning**, threadlock may damage a bearing.