AndyMark Toughbox Nano Tube 31, Two 500 Key Shafts (am-0688) Assembly Instructions

Parts needed to make a Toughbox Nano Tube:

Component	Qty.	Part #
Toughbox Large Cluster Gear	2	am-0149
Toughbox Small Cluster Gear	2	am-0151
Toughbox Large Output Gear	2	am-0150
Toughbox Nano Tube 31"	1	am-0653
500 Key Output Shaft	2	am-0506
$^{3}/_{8}$ " id Flanged, Bearing (FR6ZZ)	2	am-0028
$#10-32 \text{ x}^{3}/_{8}$ " BHPS	4	am-1028
.145 x .593 x .875 od Nylon Spacer	2	am-1151
External Klipring	2	am-0206
Toughbox Small Hex Shaft	2	am-0152
¹ / ₂ " id Flanged FR8ZZ Hex-Bore Bearing	2	am-0279
³ / ₈ " id Flanged Bearing (FR6)	2	am-0027
$^{3}/_{8}$ " id bearing, shielded (R6ZZ)	2	am-0516

Tools needed:

14mm Crescent Wrench

Phillips Screwdriver

*Note: Shown are assembly instructions for a Toughbox Nano Tube using a different shaft and body.

Perform steps 1-10 on each side of the Toughbox Nano Tube so it looks like this:



Toughbox Nano Tube Assembly Instructions:

<u>Step 1:</u> Press an FR8ZZ bearing into the nano tube on the bottom side.



<u>Step 3:</u> Place the large output gear so that its flat side will face the FR6 bearing. Put the PVC washer above it.



<u>Step 2:</u> Press in the FR6ZZ to the hole behind the FR8ZZ from the inside of the tube.



<u>Step 4:</u> Push the 500 Key Output Shaft into the bearing.



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<u>Step 5:</u> Slide the large output gear towards the FR8ZZ bearing. Then press the external klipring into the groove shaft. If you're having troubles, use a 14mm crescent wrench.



<u>Step 7:</u> Insert the large cluster gear with the raised portion facing the FR6 bearing.



<u>Step 9:</u> Insert the small cluster gear with the flat side facing towards the large cluster gear.



<u>Step 6:</u> Press an FR6 bearing into the middle hole of the motor side.



<u>Step 8:</u> Insert the small cluster shaft.



<u>Step 10:</u> Press the R6ZZ bearing into the middle hole of the output side. Right beside it, screw in the two #10- $32 \text{ x}^{3}/_{8}$ " BHPS.



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