

AndyMark CIMple Box Assembly Instructions

July 2011



Parts needed to make one (1) CIMple Box:

Tools needed:

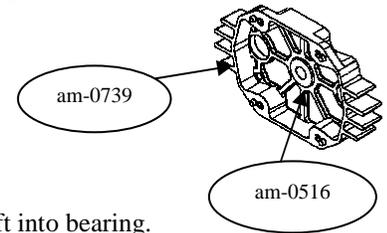
Component	Qty	Part #
1/2" id flanged, shielded ball bearing (FR8ZZ)	1	am-0030
Retainer clip, 8mm id	2	am-0033
Grease Packet, 2 gram	1	am-0448
3/8" id bearing, shielded (R6ZZ)	1	am-0516
CIMple Box Shaft Plate	1	am-0738
CIMple Box Housing	1	am-0739
CIMple Box Output Shaft	1	am-0740
12x520 CIM Gear	2	am-0741
56 Tooth Output Gear	1	am-0742
1/4 id Washer	1	am-1027
1/4-20 x 1/2 BHCS	1	am-1039
10-32 Nylock Nut	4	am-1042
1/8 x 1/8 x 0.7 machine key	1	am-1043
10-32 x 5/8 SHCS w/ nylon thread lock patch	8	am-1120
2x2x10mm machine key	2	am-1121

5/32 Hex Head Driver (Allen Wrench)
Block of Wood
Small Mallet or Hammer

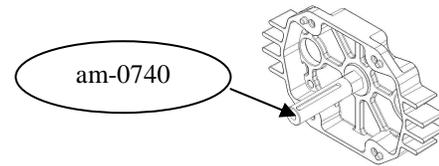
CIMple Box Assembly Instructions:

Step 1: Press R6ZZ bearing into CIMple Box housing.

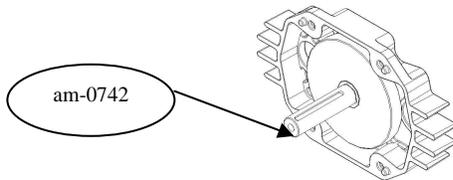
Tip: Use an arbor press, or tap lightly with a wood block (to avoid damage to the bearing).



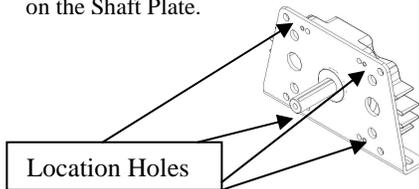
Step 2: Insert Output Shaft into bearing.



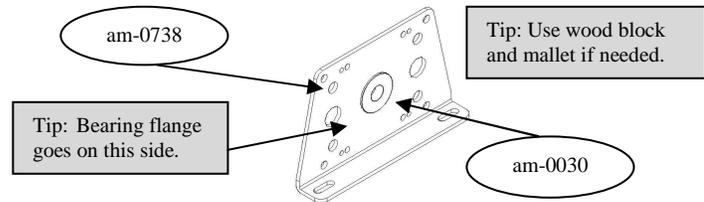
Step 3: Insert 56 Tooth Output Gear onto Output Shaft.



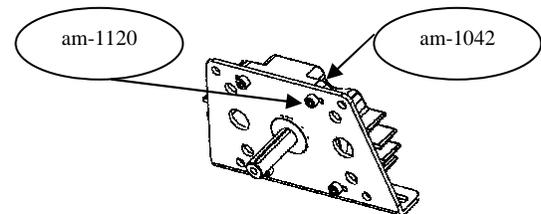
Step 5: Slide the Shaft Plate and FR8ZZ Bearing onto the Output Shaft. This will be a tight slip fit. The four locating nubs on the Housing will line up with the four location holes on the Shaft Plate.



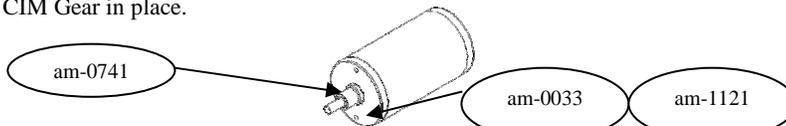
Step 4: Insert FR8ZZ Bearing into Shaft Plate.



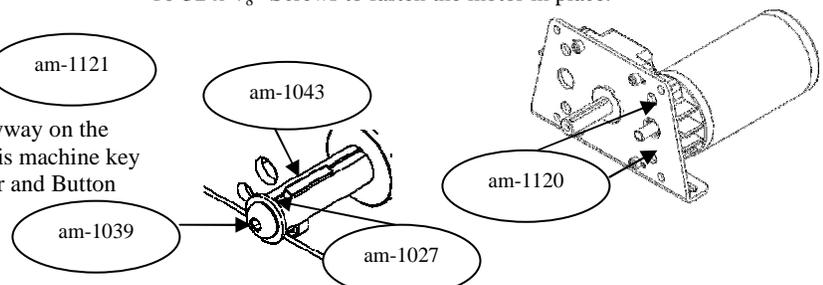
Step 6: One at a time, install 4 Nylock Nuts in the hex pockets on the back side of the Housing. Screw a 10-32 x 5/8" screw into each nut.



Step 7: Insert the 2x2x10mm Machine Key onto the CIM Motor keyway. Then, slide on the 12x520 CIM Gear so that it almost touches the motor. Lastly, press on the 5/16" Retaining Ring onto the motor shaft to keep the CIM Gear in place.



Step 8: Slide the CIM Motor into one of the two motor locations on the back side of the Housing. Use two 10-32 x 5/8" Screws to fasten the motor in place.



Step 9: Place the 1/8 x 1/8 x 0.7" Machine Key into the 1/8" wide keyway on the Output Shaft. Don't keep it there, since you won't really install this machine key until you put the sprocket on the Output Shaft. Use the 1/4" Washer and Button Head Screw to capture the sprocket on this shaft (eventually).