Servo-Driven Base Pan Kit

Make sure your kit includes the following parts:

(3) 1/4” ABS Plastic Plates
(1) Plastic Tube
(4) M4 x 10mm Zinc-Plated Socket Head Screws
(8) M4 x 12mm Zinc-Plated Flat Head Screws
(8) #4 x 1/2” Black Flat Head Screws
(4) M4 x 30mm Length Aluminum Standoffs
(1) Servo Hub-Shaft
(1) 10mm Bore Flanged Bearing (Pre-installed)

Tools needed:

#1 Phillips Head Screwdriver
#2 Phillips Head Screwdriver
3mm Hex Key

Assembly Instructions

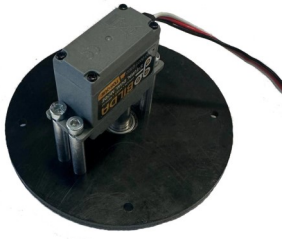
This kit will work with a standard size servo. We will be using a 25T spline goBILDA® servo in the instructions.

1. Using a #2 Phillips Screwdriver and (4) M4 x 12mm Zinc-Plated Flat Head Screws, attach the (4) M4 x 30mm Length Aluminum Standoffs to the smooth side of the ABS Servo Plate which has the pre-installed bearing.

Pro Tip: if the standoffs spin while attempting to tighten, you can tighten them after the servo has been installed in step 4.

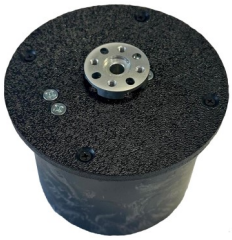
2. From the textured side of the ABS plastic, slide the Servo Hub-Shaft through the 10mm Bore Flanged Bearing.

3. Insert the servo into the spline of the Servo Hub-Shaft. If your servo has plastic gears, the fitment may be tight. When the stock servo screw is installed (in step 7) it will ensure that the Hub-Shaft is fully seated onto the servo.



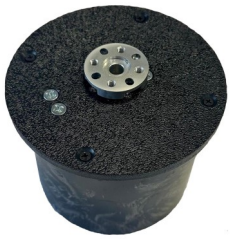
4. Using a 3mm Hex Key and (4) M4 x 10mm Zinc-Plated Socket Head Screws, attach the servo to the bottom of the Aluminum Standoffs. Make sure to start all 4 screws prior to tightening down any of the screws to allow proper alignment between the servo and the Hub-Shaft.

Don’t forget the Pro Tip mentioned in step 1.

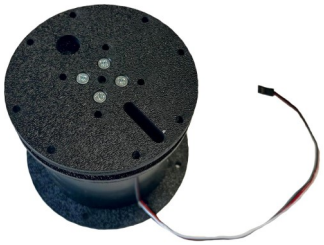


5. Using a #1 Phillips Screwdriver and (4) #4 x 1/2” Black Flat Head Screws, fasten the Plastic Tube to the Pan Assembly you created in steps 1-4.

6. Using a #1 Phillips Screwdriver and (4) #4 x 1/2” Black Flat Head Screws, fasten the ABS Plastic Bottom Plate to the Tube. Make sure the servo wire is aligned with the cut-out to keep from pinching it during assembly.



7. Using the appropriate tool, install the stock servo screw while holding the Servo Hub-Shaft so that the servo does not rotate as you tighten the screw.



8. Using a #2 Phillips Screwdriver and (4) M4 x 12mm Zinc-Plated Flat Head Screws, attach the ABS Top Plate to the threaded holes of the Servo Hub-Shaft.
If you wish to attach a camera, tilt system or goBILDA® component to the top of the pan system, you can leave this plate off and fasten the item directly onto the Hub-Shaft using appropriate M4 screws.

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