

## DDT500 (Direct Drive Tilt Mount)

Make sure your kit includes the following

- (6) ABS Parts for Frame
- (1) 525130 Hitec Horn (525132 Futaba Horn)
- (1) 1/4" ABS Spacer
- (1) 1/8" Plastic Spacer
- (1) FB250-500 .250"ID x .500"OD Flanged Ball Bearing
- (1) 534-1853 6-32x1.25" Round Standoff (.250" OD)
- (1) 633122 6-32 x .5" Round Standoff (.250" OD)
- (2) 90033A110 #4x1/2" Flat head Phillips Screw (Black)
- (2) 90935A135 #4x1/2" Phillips Pan Head Screw (Black)
- (4) 93406A106 #4x3/8" Truss Head Phillips Screw (Self Tap)
- (11) 90272A146 6-32x3/8" Pan Head Machine Screw

**Tools needed:**  
 Phillips Head Screwdriver  
 Hammer



## Standard Servo Direct Drive Tilt Mount Assembly Instructions

This kit will work with standard size Hitec (or Futaba) servos. Procedures may vary slightly depending on the servo you choose to use.



**1.** Install (4) 6-32 x 3/8" Pan Head Machine Screws through the holes on the textured side of part shown in the picture above.



**2.** Screw the aluminum horn onto the ABS part with the spline of the horn facing outward.



**3.** Install the 1/4" bore ball bearing on the textured side of the part in the picture above. The bearing may need to be lightly tapped in place with a hammer.



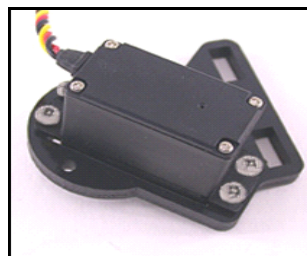
**4.** Using a 6-32x3/8" Pan Head Machine Screw, attach the 1/2" long aluminum standoff to the smooth side of the part above.



**5.** Attach the 1/4" bore aluminum clamping hub to the smooth side of the piece shown above with (4) 6-32 x 3/8" Pan Head Phillips Machine Screws. (Hub is not included with the DDT500 kit, only the Pan & Tilt combo kit)



**6.** Press the first side plate onto the bottom plate as shown and screw together with (1) black #4x1/2" Phillips Pan Head Screw.



**7.** Install your servo on the smooth side using (4) black #4x3/8" Truss Screws. **Do not fully tighten!**



**8.** Press the servo plate onto the bottom plate and screw together with (1) black #4x1/2" Phillips Pan Head Screw.

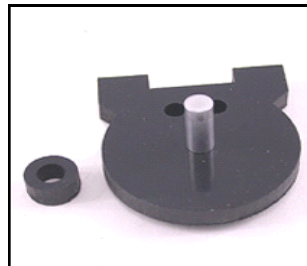
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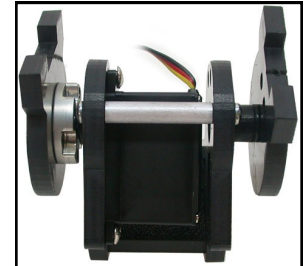
**9.** Install the threaded standoff as shown above using the (2) 6-32x3/8" Pan Head Machine Screws.



**10.** Turn your servo on and set to neutral. Next, attach the horn plate to the servo using the stock servo screw. Move servo to view range.



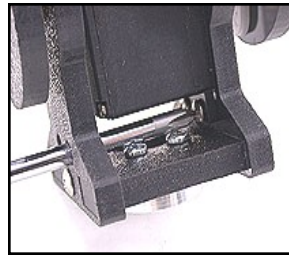
**11.** Spacers are included to help keep the ball bearing in place. You may only need (1) depending on the servo you use.



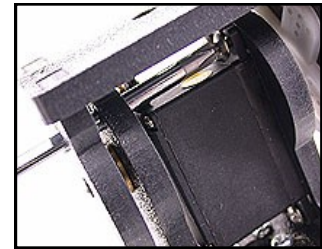
**12.** Using the spacers, place the mount plate as shown above.



**13.** Using the (2) #4x1/2" Phillips Flathead Screws, attach the top plate.



**14.** Raise or lower the servo to make the top plate level. Once level, tighten the bottom screws.



**15.** Tighten the top servo screws through the access holes.



**16.** Your unit is now complete and ready for use.