

CALIBRATE TILT SERVO

1. REQUIRED PARTS

Nr.	1001-0066 · ToolSet 2 - Trinity F90+ Calibrate Tilt Servo	Quantity	Included
1	(1001-0020) Hitec DPC-11 Programmiergerät	1	\checkmark
2	(1001-0077) DPC11 Servo Cable	1	\checkmark
3	(1001-0078) DPC11 Power Cable	1	\checkmark
4	(1001-0072) Adapter Cable Rear F9/F90+	1	\checkmark
5	(1001-0087) Trinity F90+ Calibration Template Set	1	\checkmark
6	Bench power supply (Voltage and Current must be set)	1	-
7	Laptop with DPC 11 program	1	-
8	Mini USB cable	1	-





2. CALIBRATION

• Set the bench power supply to 6.0 V and 1500mA and connect the DPC 11 unit to it.





• Connect the DPC11 unit to your laptop via the mini USB cable.



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Backspace	
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3 Enter	

FRONT SERVO

• Connect the DPC11 unit to the servo connector.







REPAIR MANUAL



REAR SERVO

• Connect the DPC11 unit to the rear fuselage via the Adapter cable rear.







- Sart the power supply and start the DPC 11 program.
- Select D-Series.





- Click Connect and wait for the program to connect with the servo.
- Check all of the settings and change them if they are not correct yet. Select SAVE.

Speed: 100% Deadband: 2 Direction: CW Overload protection: OFF (to be changed at the end vwith the DPC-11-OLP) Fail safe: OFF





• Select "Setting" and wait for connection. The motor moves to an upper position.

Hitec D-Series User interface_Ver 2.2.5	- 🗆 X					
Start window setting						
Connection						
Connect Start Window	ATTEC					
Servo Connection is Complete.						
File Open / Save SAVE OPEN Refresh Program Reset	ID : 0 V MODEL: D10245					
Manual	Program					
1500	Fal_Saf CW 0 ✓					
	Speed					
900 1200 1500 1800 2100	0 10% 0 20% 0 30% 0 40% 0 50%					
	○ 60% ○ 70% ○ 80% ○ 90% ○ 100%					
Auto	EPA EPA_Reset					
Sweep Step	< >					
	LEFT CENTER RIGHT					
Fast Slow START < >	0 2500 5000					
	Setting 2500 OK CANCEL					
Fail Safe Test	Deed Band Width(Resolution)					
FS-Position	1 2 3 4 5 6 7 8 9 10					
Setting						
Overload Protection	Soft Start					
⊙ Off ○ 10% ○ 20% ○ 30% ○ 40% ○ 50%	O 20% O 40% O 60% O 80% O 100% O					

FRONT SERVO

- The center position of the motor is adjusted with the help of the "front mid template".
- Move the EPA bar until the motor is aligned with the template. (1. Center; 2. Right; 3. Left)
- Please pay attention to use the correct template.

NOT GOOD



• Click the icon "Center" to safe the middle position.

GOOD



REPAIR MANUAL



- The upper position of the motor is adjusted with the help of the "front up template".
- Move the EPA bar until the motor is aligned with the template.
- Please pay attention to use the correct template (V1, F9, F90+).
 NOT GOOD







- Select "Right" to safe the upper position.
- The lower position of the motor is adjusted by moving the EPA bar until the motor reaches the mechanical stop and then moving the EPA bar in the opposite direction until the power supply shows a current of less than 100 mA without changing the angle of the motor.



• Click the Icon "Left" to safe the Lower position.

REPAIR MANUAL



REAR SERVO

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- The center position of the motor is adjusted with the help of the "rear mid template". Move the EPA bar until the motor is aligned with the template.
 - Please pay attention to use the correct template. NOT GOOD





- Select "Center" to safe the middle position.
- The upper position of the motor is adjusted with the help of the "rear up template". • Move the EPA bar until the motor is aligned with the template.
- Please pay attention to use the correct template.



Select "Right" to safe the upper position. •



The lower position of the motor is adjusted by moving the EPA bar until the motor reaches the mechanical stop • and then moving the EPA bar in the opposite direction until the power supply shows a current of less than 100 mA without changing the angle of the motor.



WRONG / NOT GOOD right / GOOD



- Select "OK" to safe all of the position settings.
- Check all 3 positions afterwards by selecting "900" for lower position, "1500" for center position and "2100" for upper position. The three positions need to align with the corresponding templates.

Hitec D-Series User interface_Ver 2.2.5	- 🗆 🗙
Start window setting	
Connection Connect Start Window Servo Connection is Complete.	
File Open / Save SAVE OPEN Refresh Program Reset	ID : 0 V V V V V V V V V V V V V V V V V V
Manual	Program
1500	Fail_Saf CW 0 ~
900 1200 1500 1800 2100	Speed 0 10% 0 20% 30% 40% 50% 60% 70% 80% 90% 100%
Auto	EPA EPA_Reset
● Sweep ○ Step	< >
Fast Slow START < >	LEFT CENTER RIGHT
Fail Safe Test	Dead Band Width(Resolution)
FS-Position -	1 2 3 4 5 6 7 8 9 10
Overload Protection	Soft Start
● Off ○ 10% ○ 20% ○ 30% ○ 40% ○ 50%	● 20% ○ 40% ○ 60% ○ 80% ○ 100%

- If the positions do not align please repeat the calibration process.
- Please open the "DPC11 SUB OLP" program and select "connect".
- Make sure that the Overload Protection is set on "50%".
- Set the Delay Time to "10sec".
- Click the Icon "SET" to save the settings and close the program.

-
MD245
Connection Connect ID : 0 Servo Connection is Complete.
Overload Protection Off O 10% O 20% O 30% O 40% SET Delay time Sec SET

Important: When opening the DPC-11 program again, the settings of the DPC-11 SUB OLP are not saved.