

## Servo Programming Instruction for New Hitec HS-50XX Series Micro Digital Servos

Thank you for purchasing Hitec HS-50XX series micro digital servos!  
Please peruse the information below for proper programming of the servos.

**For Programming HS-50XX Digital Feather/Micro Servos**  
(HS-50XX series : Currently HS-5055MG, 5056MG, 5065MG, 5082MG and 5085MG)

1. New programming function(Overload protection setting) has been added to Hitec's new digital feather / micro servos stated above.
2. The new function is NOT available in conventional HS-5XXX and HS-6XXX digital servos.
3. The new function can be programmed by Hitec Servo Programmer(HFP-20) and Hitec PC Link Programmer(HPP-21).
4. For more detailed information, please refer to the manual of HFP-20 and HPP-21.
5. Important Note : This new function (Overload protection setting) CANNOT be programmed by HFP-10, previous version of Hitec Servo Programmer.

Programmer	Function	Conventional HS-5xxx / 6xxx Digital Servos	HS-50xx Digital Micro Servos
HFP-20 User HFP-10 User	Servo Test	Yes	Yes
	RX Pulse & Voltage Measure	Yes	Yes
	Reset	Yes	Yes
	Dead Band setting	Yes	Yes
	Change Rotation (CW / CCW)	Yes	Yes
	Servo Speed	Yes	Yes
	Fail Safe(On/Off)	Yes	Yes
	EPA / Fail Safe Position	Yes	Yes
	<b>Overload Protection*</b>	No	Yes

**\*Overload protection :** This function is to protect the servo(HS-50XX servos) from the overload condition. Once the servo is overloaded for a certain period of time, the motor output will be reduced to the level that the user programmed to the servo. Please note that this function is deactivated (off) in factory setting.



## Servo Programming Instruction for New Hitec HS-7XXX Series Digital Servos

Thank you for purchasing Hitec HS-7XXX series digital servos!  
Please peruse the information below for proper programming of the servos.

**For Programming HS-7XXX Digital Servos**  
(HS-7XXX series : Currently, HS-7955TG, HS-7985MG, HS-7965MG, HS-7966HB and HS-7975HB)

1. New programming functions(Resolution mode setting and Overload protection setting) have been added to Hitec HS-7XXX series.
2. These new functions are NOT available in Hitec HS-5XXX and HS-6XXX digital servos.
3. These new functions can be programmed by Hitec Servo Programmer(HFP-20) and Hitec PC Link Programmer(HPP-21) as well.
4. For more detailed information, please refer to the manual of HFP-20 and HPP-21.
5. Important Note : These two new functions(Resolution mode setting and Overload protection setting) CANNOT be programmed by HFP-10, previous version of Hitec Servo Programmer.

Programmer	Function	Conventional HS-5xxx / 6xxx Digital Servos	HS-7xxx Digital Servos
HFP-20 User HFP-10 User	Servo Test	Yes	Yes
	RX Pulse & Voltage Measure	Yes	Yes
	Reset	Yes	Yes
	Dead Band setting	Yes	Yes
	Change Rotation (CW / CCW)	Yes	Yes
	Servo Speed	Yes	Yes
	Fail Safe(On/Off)	Yes	Yes
	EPA / Fail Safe Position	Yes	Yes
	<b>Overload Protection*</b>	No	Yes
	<b>Resolution Mode Setting**</b>	No	Yes

**\*Overload protection :** This function is to protect the servo(HS-7XXX servos) from the overload condition. Once the servo is overloaded for a certain period of time, the motor output will be reduced to the level that the user programmed to the servo. Please note that this function is deactivated (off) in factory setting.

**\*Resolution mode setting :** There are two resolution modes(High and Normal) in HS-7XXX servos. Factory default is set at "High" resolution, and servo travel will be 120 degrees. If the user needs to widen the servo travel, the user may select "Normal" resolution so that the servo travel can be widened to the maximum of 180 degrees.

