Power Digital Servo

Instruction Manual

Thank you purchasing this Power Digital Servo.
Please read the instruction manual carefully before using this product.

Feature The operation characteristic of servo can be set up.

(Multi-Setting Adaptor(Option) or ICS USB ADAPTER(option))

Interactive Communication System
Transmitter and other R/C equipment can Communicate with other R/C equipment.

- Interactive Communication System is Included. When using ICS USB ADAPTER can customize directly from PC.
- It is easy to set up the characteristic of a Servo on PC monitor.
- Wide setup range, can adjust the characteristic like analog Servo.
- Can setup without PC, When using Multi-Setting Adapter & Servo Card (Option).
- Can adjust the characteristic of servo by Multi-Setting Adapter & Servo Card (Option) or ICS USB ADAPTER (Option) Find your own best Setup to match with your Driving style.

●Pulse Stretch・・・・ The holding characteristic of a digital servo can be set similar to that of an analog servo.

●Speed・・・・・・・・・ A functin to adjust the maximum speed of the servo.

●Punch・・・・・・・・・ A function to improve the initial response of the servo.

●Dead Band・・・・・・・ Adjusting the dead band. Narrowing the dead band creates a more precise neutral position, but the servo may make more noise according to how your linkage is set.

●Dampening・・・・・・・ Adjustment of characteristic when servo stops. Can be adjusted as it applies the brakes before neutral position or returns to the neutral position from the position beyond.

●Protection Timer・・・ Set the time for the servo to power itself down by 25% in the event of the linkage locking to protect the servo.

●Limit・・・・・・・・・・ A function to adjust the maximum angle of servo movement. Adjust the maxmum angle of servo movement in order to prevent unexpected movement of the servo due to incorrect transmitter setting. The characteristic of muvement can be set to match your driving style, battery and feelings.

Caution Failure to observe the matter discussed in such an item poses a serious threat of danger or servere injury.

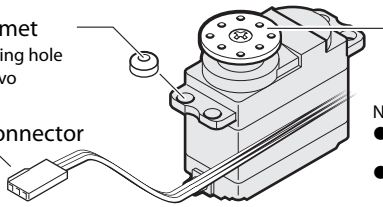
●Ensure KO PROPO products are used when connecting to Power Digital Servo.
※We cannot assume any responsibility for the use of other company's products with this unit.
●Ensure polarity is checked and connect servo lead properly.
※If the connector is inserted incorrectly, the unit will be damaged.
※If connections are loose, the model may run out of control.
●Do not use in the rain or in a location where water might get on it ※The unit may become wet and cause a loss of control.

Note on usage

●We have examined the operation of this Power Digital Servo in combination with other KO PROPO products as a prerequisite condition. We can not assume any responsibility for the use of other company's products with this unit.
●Vibration during running can damage the servo. Use the rubber grommets included to prevent the servo from comming in contact with mechanical plates. Tightening the grommets reduces the effect of preventing vibration.●Check that shaft linkage is not loosened and moves smoothly, Slow movements of the shaft linkage increase the power consumption, Which may shorten the operational life of the servo.●When using a dry cell as a power supply, the correct performance may not be shown.●There is a possibility of becoming unable to repair the unit when the customer has modified the unit.

※Specifications may change without notice for performance improvement.

Connecting to Electronic Speed Controller



Rubber Grommet
Insert into mounting hole to protect the servo from vibration

Servo Lead Connector

Servo Horn
Optional Stayer Horn and Color Horn can be used.

Note on using Heat Sink Version Servo
- Because the heat sink is an aluminum material, be careful not to short-circuit.
- Be careful when dissolution of parts, because the heat sink maybe hot and can cause burning.

During this occurrence・・・

Changing only these three settings! !

A very effective setting is when the remote control car is set correctly.

Pulse Stretch
The Max torque of the initial movement (at a stop or kick back) of the servo can be adjusted.

Punch
The first instantaneous power when the servo starts to move can be adjusted.

Dead Band
You can adjust the width of the blind sector of the neutral position (or the operational position).

Tendency and setting

★The movement is too reactive.
Try setting the pulse stretch to 1 or 2.

★At the end of a straight-away, the tires just turn but don't grab.
Because holding power is too strong, the front tires are generating a slip.
Try setting the pulse stretch to 1 or 2 when this occurs.

★The latter half of a turn is made and the reaction is bad.
★Counter steering, we would like to have more speed.
Please try 5 or more for the punch setting.

★It feels twitchy going straight.
Set the dead band to 4 or 5 and the pulse stretch to 1 or 2.

※However, please acknowledge that due to road surface status and the setting of the car, the above-mentioned steps can always be altered and are not limited.

Sarvice

When sending a repair item, please include a detailed description of your problem.
1. The situation of a trouble.
2. Name of TX, RX, Servo, Electric Speed Controller, Etc.
3. A car name and situation of the deployment.
4. Repair Item List.
5. Name, Address, Contact Number.

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