

Servo setting card manual

This product is a precision instrument that uses internal electronic parts. Wrong use and the storage method of this product will result in damaging the product and/or may also cause an unexpected accident and danger. Please refer often to this manual to prevent such an accident.



Danger Warning From the content to which it is assumed, danger of causing death or the serious injury may occur. The content where the possibility of owing the death or the serious injury is assumed, and a sudden disadvantageous accident occur at high frequency.

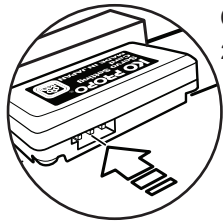
Caution The content to which it is assumed, only a possibility or a sudden disadvantageous accident that occurs may be due to troubles by usage.

[Danger] Do not dismantle this product and try to repair or alter it. This may lead to a fire and the electric shock and the breakdown of this product. Our service department must handle repairs. **[Danger]** This product is used to set our product from the outside by combining it with an optional controller card. Please note that it is not possible to use it for anything else. Damage including the breakdown might occur when using it for the purposes other than stated regulations. **[Warning]** If this unit has any of the following signs; smoke rising from it, gets abnormally hot, smells and the sound are heard, discontinue its use and remove the batteries at once. Also, if this unit gets wet, excessively hot, and/or the transformation of the case occurs, discontinue its use. **[Caution]** Do not insert any foreign objects into the termi-

nal. A short may occur and there is danger in the ignition of the unit and an injury by generation of heat, and/or a disadvantageous things may occur with the foreign object. **[Caution]** Do not leave this where temperatures may damage this unit. Especially, where temperatures might reach the high temperature (about 60°C or more) in the trunk of a car or in the car during the midsummer etc. The transformation of the case due to heat may occur, and it is not likely that this unit may be used. **[Caution]** Please note that the transformation and damage occur because of the impact by the fall or the chemical such as solvents enough in handling because the main body is a case made of plastic.

Our company cannot assume the responsibility due to the result that this product may produce. Please acknowledge it beforehand.

Connection The setting card is connected with the multi setting adaptor. To connect it, insert it into the communication connector in the upper part of the multi setting adaptor. Please push the card into the interior carefully. Please turn off the power supply of the multi setting adaptor when connecting and detaching it. Set the equipment connected using the setting card without having connected it yet. There is an insertion direction. The case and the connector might be damaged when inserting oppositely and pushing forcibly. To confirm it was connected correctly, turn on the power supply. If the display to the right is shown, the connection is correctly done.



Connection of set equipment Servo (PDS-2343FET, PDS-2344FET) for **I.C.S** can be connected with the servo setting card. (The correspondence of the model in the future will be guided on our Web site etc.)

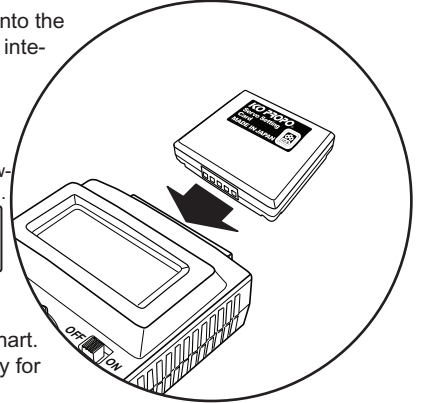
The servo that is connected to the setting card is set to the position of the left chart. Besides the connected servo, it is not necessary to connect it. The power supply for the internal circuit is supplied from the setting card side.

KO PROPO
I.C.S servo

Immediately after power supply is turned on.

1:STRETC
03

Initial display



Turn off the power supply of the multi setting adaptor when connecting and detaching it.

Operation method Improvement key (UP) or down key (DOWN) is used to change a set item. The display changes if the key is pushed. Plus (+) and a minus (-) key are used to change the numerical value of each set item.

Explanation of each setting function

- 1:STRETC-pulse stretch (maintenance characteristic) can be set. An analog servo setting value and a digital servo can be set by choosing 1 or 3 respectively. Adjusting the pulse stretch can control the rigidity of the kickback from the road. Handling a smooth cornering and a sharp counterattack can be achieved easily.
- 2:The maximum speed of SPEED-servo operation is set. Setting the upper bound of an absolute operation speed in the servo operation can set the arrival time to the maximum rudder corner. The steering wheel control slows down when it is too severe, and generates the slipping angle and the control can be facilitated. However, recommendation of the servo setting on the transmitter side (steering wheel speed etc.) is suggested when a multifunctional transmitter is used.
- 3:The movement of the servo's initial operation is the PUNCH-operation is skipped. A set value 10 is the maximum and an initial reaction is improved with this highest value. When it is quicker etc., handling is affected.

- 4:The positional detection accuracy of D.BAND-servo horn (dead band) can be set. A set value of 1 becomes the band set (narrow), and 5 is widest in this high accuracy. The clicking sounds are heard at the neutral when the accuracy is set high. Moreover, some consumption of the battery will occur with increased time of usage. Please set the numerical value of the setting to its highest when the consumption of battery is excessive.
- 5:The brake characteristic when DUNPIN-servo horn reaches an arbitrary position, and the stop can be set. The operational movement that returns after it passes through setting it to a set value 1 can increase the attainment speed. It is effective to obtain enough tire-grip. Setting this at 2, the movement to apply the brakes from this side with a mild operation is obtained through smooth operation.
- 6:Time until P.TIME-power save setting begins to works. The function to prevent an unexpected trouble such as the motor burning out by suppressing 25% power once the set time is installed in PDS-2300 series servo. 0~10 seconds can be set.
- 7:The maximum rudder corner upper bound of the LIMIT servo is set. Setting the travel limit without putting excessive stress on the linkage rod etc., after it is installed in the chassis.

Preservation and transmission of data

This sets the servo with the setting card. Data disappears when the power supply is turned off. However, data can be preserved by saving it in the memory, which can memorize the content of five sets set in the card. The memory of the number specified that plus (+) key is pushed on, preserves

the data in that particular memory slot.

Reading saved data. Now you can similarly read a setting by pressing the minus (-) key. Thus, the data that is set or read can be transmitted to the connected servo by pushing plus (+) on the forwarding screen. Similarly, data in the servo can be read by pushing a minus (-) key.

Please note that the displayed data is overwritten when data is read.

Reset By pressing the (+) key on the reset screen, the data of the connected servo will return to the initial setting. The written and displayed data will also be initialized at the same time.

LOW BATT (warning of power-supply voltage)

LOW BATT

When the power-supply voltage drops while operating it, the voltage warning display of about one second will occur after the key is pressed. When this occurs, the backlight of the LCD panel darkens, and the display thins. The disappearance of data etc. might be generated if the operation continues. Exchange the batteries at once before the data is lost.

When repairs are requested.

Please include the content of the usage condition when the unit has broken down, symptoms, your addresses, name, and a contact phone number(s) in writing.

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