Please read this manual thoroughly and store it for future reference.

Note on Usage

▲ Warning

Failure to observe the following points may pose a serious threat of danger or severe injury.

*Do not get allow this unit to get wet. *Do not dismantle or modify this unit. *Ensure that the unit is switched off and disconnected from speed controller when you are not operating the frequency set up. *Do not use batteries which are not recommended in this manual. *Do not short circuit the motor wires when frequency set up is in operation. *Ensure that the batteries are removed when the unit is stored.

*Do not use this unit if the unit becomes extremely hot or smells.

▲ Caution

Failure to observe the following points may pose the possibility of injury and great likelihood of damage to the equipment or property.

*Do not short-circuit the battery terminal. *Do not use the unit near a source of heat.*Ensure genuine KO Propo products are used for the transmitter, receiver, servo and other optional parts. We cannot assume any responsibility for the use of other company's products with this unit. *This unit is designed for the use with VFS series speed controller only. Please do not use for any other purposes. *Do not switch off the speed controller and the Setting Adapter switch. It may result in loss of data. *Do not apply inappropriate force to this unit.

Because of the nature of radio controlled models, we cannot assume any responsibility for the result by use of our products, please understand in advance.

Name of Parts **Technical Data** Data communication connector 0 LCD display MEM.=01 with backlight panel Input voltage: 6V Main Switch [UP] Key [-] Key [+] Key Battery cover [DOWN] Key Control Key Strap Holder Radio Neck Strap (option) No.16301 can be used What is Drive Frequency? *Speed controller controls the revolution *A revolution (speed) of motor is to change

- Power supply: 4x AAA batteries (optional) Rechargeable batteries cannot be used.
- LCD display: 2lines 8 character dot matrix
- Current consumption: 30mA
- Dimension: 65x133x36mm
- Weight: 103.5g (excludes batteries)

(speed) not changing the current but cycling on and off with very high speed. This cycling is called drive frequency.

ON OFF the time of on and the time of off. ON

OFF Low revolution (slow) High revolution (fast) *Drive frequency is not changed.

Generally, the revolution of the motor is the same but selecting a low drive frequency will result in the motor becoming more powerful and the motor will draw more current which will decreases run time. On the other hand to select a high drive frequency will make the motor smoother but will result in less current draw and so run time will be increased

ON OFF Low drive frequency

OFF High drive frequency ON

*Current speed controller has a fixed drive frequency from low speed to high speed; in other words fixed gear ratio which current electric cars systems need to compromise around in setting up the motor. Setting the frequency too low can result in good acceleration but cannot produce a good top speed. Setting the frequency too high can result in a good top speed but will not produce good acceleration.

*VFS-2000 can change the drive frequency (PAT.P) according to the throttle position and enable the operator to select a suitable speed range frequency to obtain superb acceleration, powerful mid range and smooth high speed.

OFF LO HI Throttle

Explanation of LCD screen

access screen

The screen changes by pressing UP, DOWN, [-] and [+] keys. *Memory MEM.=04 select screen Enable to store 4 programmed data. (MEM=01 Default setting at 2KHz.) *All select screen Use [+], [-] keys to change the frequency value for all throttle point at once. (All select value refers throttle position 32) FREQ= 01-32 THRT= *Frequency FREQ=02 FREQ=32 assign screen Glossary Use [+], [-] keys to change the frequency value in 32 steps. MEM.=MEMORY Using control keys [UP], THRT=31 FREQ=32 THRT=31 FREQ=02 [DOWN] to select 32 \bigcirc THRT=THROTTLE throttle point. *Drive frequency FREQ=FREQUENCY Use [+], [-] keys to change the frequency value in 32 steps. setting screen RX=DATA RACEIVING THRT=01 FREQ=02 TX=DATA SENDING LD=LOAD Use [+], [-] keys to change the frequency value in 32 steps. SAV=SAVE *Data transmit, RX-TX+ *Press one-two seconds. receive screen Press [-] key to receive the programmed data from speed controller and press [+] key to transmit the data to speed controller. "OK" will display when transfer complete and "NG" displays if fails. LD- SAV+ *Memory LD- SAV

*Press one-two seconds

Programmed data can be recalled and save. Press [-] key to load and press [+] to save. "OK" will display when complete.