

EK2-0939 SERVO TESTER

(MICROPROCESSOR PRECISION PULSE GENERATOR)

FEATURES:

THIS IS THE FINEST PULSE GENERATOR AND TESTER AVAILABLE ON THE MARKET THAT WILL ACCURATELY TEST RECEIVER (PULSE WIDTH), SERVO FUNCTION AND GYRO FUNCTIONING.

SPECIFICATIONS:

● Model:	EK2-0939
● Power Supply:	6.0~9.0 Volts
● Current Consumption:	100mA(6.0V)
● Size:	170x100x35mm
● Weight:	Approximately 180 grams

FUNCTION

- Output signal (pulse range 0.7~2.3ms) to servo (or gyro) can be adjusted with the pulse control knob manually.
- Automatically detect the input pulse from receiver and display its pulse width.
- Automatic sweeping mode (pulse range 0.80~2.20ms) is available with using the pulse control knob to adjust sweeping speed.
- You can connect the external power supply only to the right side terminals as shown on the illustration. Be sure to observe the proper polarity of the external power supply.

HOW TO USE THE SERVO TESTER (PULSE GENERATOR).....

TO TEST SERVO, connect Futaba type female connector/wire(supplied) to the signal output Terminals on the servo tester as per the following instruction and the drawing. It will allow to test Futaba, JR and Hi-tec type servos, for other types of servos (Sanwa/Airtronics, KO, Multiplex etc.), please obtain a special servo connector/wire from our distributors (otherwise, you may contact us directly).

(FUTABA TYPE CONNECTOR)
= Female Connector =

WHITE wire:
RED wire:
BLACK wire:

Signal
Positive(+) Voltage
Negative(-) Ground

CROSS REFERENCE OF SERVO WIRES

	FUTABA	JR	HI-TEC
SIGNAL	White	Orange	Yellow
POSITIVE(+) VOLTAGE	Red	Red	Red
NEGATIVE(-) GROUND	Black	Brown	Black

Plug servo to the Futaba type female connector and turn On-OFF switch on. The red LED and the digital display will illuminate simultaneously. Now, you can check if servo is functioning properly or not.

《MANUAL OPERATION》

It will allow to adjust the pulse width (0.7~2.3ms) by turning the pulse control knob.

《AUTO OPERATION》

The pulse width will be shown automatically and the sweeping speed can be adjusted by the pulse control knob.

TO TEST RECEIVER, attach the JR type male connector/wire (supplied) to the signal input terminals on the servo tester as indicated below. You can test Futaba, JR and Hi-tec type receivers, but it is in need to obtain a special connector/wires for other types of receivers through our distributors separately.

(JR TYPE CONNECTOR)
= Male Connector =

ORANGE wire: Signal
RED wire: Positive(+) Voltage
BROWN wire: Negative(-) Ground

Plug JR type connector/wire to receiver and turn the ON-OFF switch on. You will be able to read the pulse width from the receiver. For making test of receiver, it is requested to flip the switch to "MANUAL" position all the time.

You can test if your receiver is functioning properly by the signal from your transmitter, but it is not possible to change pulse width by the pulse control knob. It is also possible to test the signal (pulse width) from the receiver without your transmitter on. It is most convenient to check your receiver, gyro and servos installed on your model without turning your transmitter on at a flying field.

TO TEST GYRO, plug servo to gyro first and connect the gyro signal input connector to the Futaba type female connector or from the output signal terminals on the servo tester. Please read the instruction manual for your gyro carefully and precisely follow the instructions for adjustment and set-up procedure.

TO TEST ALL, connect all (receiver, gyro and servo) to the servo tester in accordance with the instruction given on the above. You will be able to check and test all at once. It can be done either by the signal from transmitter or the signal from the servo tester (pulse generator).

PRECAUTIONS

- Avoid to supply too high (or too low) voltage than the suggested voltage (6.0~9.0V). If you supply too high voltage, it may cause damage to the circuit board of the servo tester. In case the supplied power is too low, it will result in unstable condition of the circuit and the figures of the pulse width may not be correct.
- Be sure to observe the proper polarity on the connector and wires. Reversing the polarity may result in damage to the pulse generator.
- Do not get water on the servo tester; protect the pulse generator from dirt.

WIRING DIAGRAM

