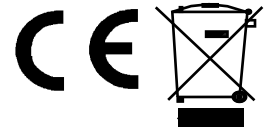


# S.M. Services (UK) Ltd

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## Servo Checker



### Specifications

Size. 130mm x 150mm x 40mm  
Construction. Boxed  
Connections. Via universal fly leads and plugs  
Operating Voltage. 4.8v from internal rechargeable battery  
Operating Current. 10mA @ 4.8v plus servo current.  
Output. Positive going 1 to 2 milli second pulse.  
Input. Positive going 1.5 milli second + or - 0.3% led on.

### Description.

The Servo Checker is a micro processor controlled servo testing system and is designed as a general purpose device to enable servo's to be driven directly. The external connections are via a universal servo lead (wired as standard for Futaba) which has a dual function, to act as a charging input for the internal nicad when the unit is switched off and a receiver connection when in the TX Check mode. The other lead is a socket (wired for Futaba) for connection to a servo. The front panel contains the power on off switch, manual control knob, red led power on, green led indicating TX is centred and a five position switch, the functions of which are as follows :-

Manual. This allows the user to directly control a servo via the variable control on the left hand side of the front panel. The operational range is 1 to 2 mS or 0 to 100% of normal servo movement.

Centre. This position dead centre's the servo, i.e. 1.5mS.

Fast. This position drives the servo from 0 to 100% and back continuously by generating a sudden change from 1 to 2mS this allows the user to judge the actual speed of a servo. (There is a pause at the end of each transition to allow for slow servo's).

Slow. This position drives the servo from 0 to 100% and back continuously with a 8 second cycle time.

TX Check. This position allows the user to check the stick centring and trims of a transmitter. To set-up, switch on the Servo Checker and set select switch to SLOW. Connect the servo lead to the receiver output corresponding to the TX stick to be checked. Switch on the power to the Tx and Rx. Set the select switch to TX CHECK and wait 10 seconds, the green led will only light when an exact 1.5mS servo pulse is generated i.e. dead centre. If the led does not light adjust the trim until the led lights. Any error can be eliminated by adjusting the transmitter pot if required. Disconnect the Servo Checker before switching off.

### Standard receiver wiring connections.

| Lead function | Futaba | JR/New Sanwa | Hitec  | Sanwa (old) |
|---------------|--------|--------------|--------|-------------|
| Positive = +  | Red    | Red          | Red    | 3           |
| Negative = -  | Black  | Brown        | Brown  | 2           |
| Signal        | White  | Orange       | Yellow | 1           |

Please refer to your equipment instructions for wiring codes if they are not listed.

## WARNING

1. Do **NOT** reverse positive and negative wires. (Red and Black)
2. **ALWAYS** remove power from the unit before connecting or disconnecting any input or output connection, Failure to observe this instruction can damage both the unit or the equipment it is connected to.
3. **ALWAYS** range check when adding to or changing the control system of a model.
4. S.M. Services (UK) Ltd products are tested for use on the UK 35 Mhz aircraft frequency, use on other frequencies should not be a problem, however use on frequencies other than 35 Mhz is at the users risk.  
If you have any questions or problems with this product please contact us, we are here to help you.

### Your Guarantee

S.M. Services (UK) Ltd guarantee all products for 1 year from date of purchase. During this time S.M. Services (UK) Ltd will repair or replace all defective products free of charge, except for Units subject to fair wear and tear, or units that are subject to crash damage. To qualify for benefits under the guarantee you must have installed and used the product in accordance with S.M. Services (UK) Ltd instructions. Consequential losses and accidental damage to the product are not covered by the guarantee. S.M. Services (UK) Ltd cannot be held responsible for results of using our products for any purpose other than those described in the relevant instructions.

### Returns

Any returned products ordered in error or are not required will if returned unopened in original product packaging within 28 days from date of purchase be subject to a full refund less shipping charges and a 5% handling charge. All other returns will be subject to a full refund less shipping charges and a 20% handling charge.