

MILFORD INSTRUMENTS Ltd

AutoTalk (Part Number 1-961)



The AutoTalk module will move a standard R/C type servo in response to either an audio or speech input signal. AutoTalk includes the facility to set both the servo end travel points and the direction of operation.

Connections

- SERVO** 3-pin 0.1" spacing header to take standard R/C type servo connector. Ensure correct polarity
- POWER** 2.1mm Power supply connector- AutoTalk will accept 7.5-9VDC. Current rating depends on the servo motor being driven. Autotalk itself requires approx 20mA. Ensure correct polarity.
- AUDIO IN** 2.1mm jack socket. 1V p-p audio signal level for maximum travel (90 degrees)

Controls

- JP1** Jumper IN- normal operation
Jumper OUT- Maximum open position of the servo may be set with the Open Potentiometer
- JP2** Sensitivity range control- OUT for standard sensitivity, IN for high sensitivity
- SHUT** Sets the Shut position (no audio signal) of the servo
- OPEN** Sets the maximum allowable position for the servo irrespective of audio signal
- GAIN** Sets the sensitivity- clockwise for increased sensitivity.

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Operation

Connect a suitable servo, power supply to the **AutoTalk**.
Remove JP1 and set the maximum travel allowable for the servo. Replace the jumper.
Set the Shut position for the servo.
Connect the audio signal- adjust the gain until the desired amount of travel is obtained.

To reverse the servo direction-

You may wish to reverse the logical servo travel direction due to existing linkages etc.
Remove the audio source (or turn the gain down to 0).

Remove JP1 and set the Shut potentiometer fully anticlockwise. Set the required maximum open position with the Open potentiometer. Replace the jumper JP1 and adjust the shut position as required. Re-connect the audio signal.

The **AutoTalk** module selects either normal or reversed action depending on the relative positions for the shut and open potentiometers with the JP1 jumper out. To return the module to normal operation, repeat the reversal procedure but in this case set the Shut potentiometer fully clockwise.

Other Products

Other products from our animation range:

Servo-Check	Simple way to calibrate/ check standard R/C servos
Wizard	Control up to 4 servos and digital outputs- up to 5 minutes recording and playback time.
Animate+	Similar to the Wizard Card but with a 20 second speech/audio chip
Puppeteer	Single servo record and playback module- up to 160 seconds action
Rom-Copy	Produces duplicate eeproms for the above modules- suitable for multiple applications.

Full details of the above products can be found on our web site or contact us for special applications.