Standard Servo (#900-00005)

General Information

The Parallax standard servo is ideal for robotics and basic movement projects. These servos will allow a movement range of 0 to 180 degrees. The Parallax servo output gear shaft is a standard Futaba configuration.

Technical Specifications

* Power 6vdc max
* Speed (sec/60degs)
* Weight 45.0 grams/1.59oz
* Torque 3.40 kg-cm/47oz-in
* Size mm (L x W x H)
  40.5x20.0x38.0
* Size in (L x W x H)
  1.60x.79x1.50

Motor Control from a BASIC Stamp

Parallax publishes many circuits and examples to control servos. Most of these examples are available for download from our web site. On www.parallaxinc.com or www.stampsinclass.com type in "servo" and you'll find example codes below.
Wiring setup

The servo is controlled by pulsing of it's signal line. If you are using a BASIC Stamp this is done with the PULSOUT command. Below is BASIC Stamp code that will help you with basic control of a servo. The codes below may not move the servos from on extreme to another but is will give you a general demonstration on function.

```
'Stamp1
symbol temp = w0
start:
  for temp = 70 to 250
    pulsout 0,temp
    pause 50
  next
  for temp = 250 to 70
    pulsout 0,temp
    pause 50
  next
  goto start

'Stamp 2 ,2e,
temp var word
start:
  for temp = 400 to 1300
    pulsout 0,temp
    pause 50
  next
  for temp = 1300 to 400
    pulsout 0,temp
    pause 50
  next
  goto start

'Stamp 2s,2p24/40
temp var word
start:
  for temp = 900 to 3100
    pulsout 0,temp
    pause 50
  next
  for temp = 3100 to 900
    pulsout 0,temp
    pause 50
  next
  goto start
```