599 Menlo Drive, Suite 100
Rocklin, California 95765, USA
Office: (916) 624-8333
Fax: (916) 624-8003

General: info@parallaxinc.com
Technical: stamptech@parallaxinc.com
Web Site: www.parallaxinc.com
Educational: www.stampsinclass.com
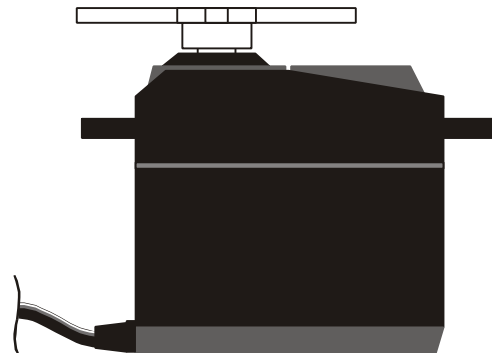
Standard Servo (#900-00005)

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.
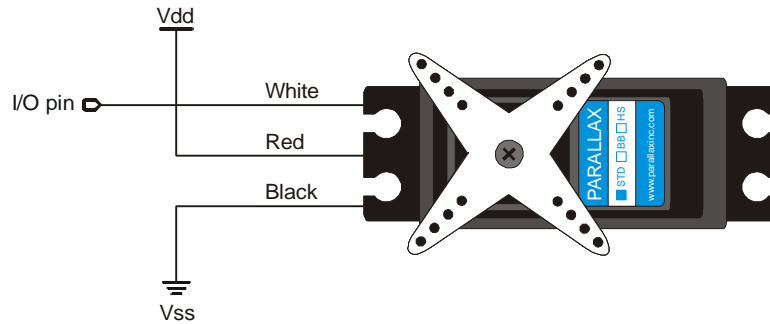
Technical Specifications

*   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 2sx,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
```