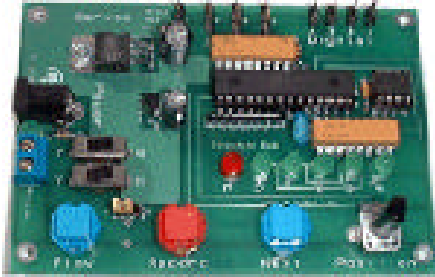


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Wizard - I Controller (1)

(BPE # WAC-0001)

The Wizard - I Board will record and playback up to **5 minutes** of servo motion for 1-4 standard hobby R/C type servos and control 4 digital switched ON and OFF outputs at +4.5 Vdc (100 mA) per channel. The board incorporates many features such as looping playback of servo motion with variable delay between loops. An auto start-up on power option and on board connector for remote activation switching such as from a PIR sensor, contact switch or mat pressure pad to initiate playback. Recording sessions are built up on a channel by channel process - no complex programming is required. Programming is easily done, with a set of push button keys and control potentiometer built onto the board. No host computer or other programming device is ever needed. On board EEPROM records and stores programming sequences for later playback and edit.

Board operates from a regulated 9 VDC @ 2.5 amp power supply.

- Servos, power supply not included.

Board Size: 4-1/8" L x 2-7/8" W x 1/2" H

Power Requirements:

Regulated 9 VDC @ 2.5 Amp supply



Wizard - II Controller (2)

(BPE # WAC-0020)

The Wizard - II Board will record and playback up to **5 minutes** of action for up to 4 hobby R/C type servos and 4 digital outputs or up to 20 minutes of action for 8 digital outputs with on-board relays. The board incorporates an on-board jumper that allows the board to be easily configured for 8 Digital outputs / relays or 4 Servo and 4 Digital outputs. Other board features such as looping action with variable delay between loops, auto start-up on power up, a connection interface terminal for a remote switch or floor sensor pressure pad to initiate playback and the ability to daisy chain several cards together. On-board programmable relays makes connecting other devices to the controller easy to do. Recording sessions are built up on a track-by-track basis, no programming is required during recording, all previously recorded tracks are re-played to aid synchronization. Programming control is done with a set of on-board programming buttons, no computer required. On board EEPROM records and stores programming sequences for later playback and edit Board operates from a regulated 5 VDC @ 3 Amp power supply and regulated 9 VDC @ 2 Amp power supply.

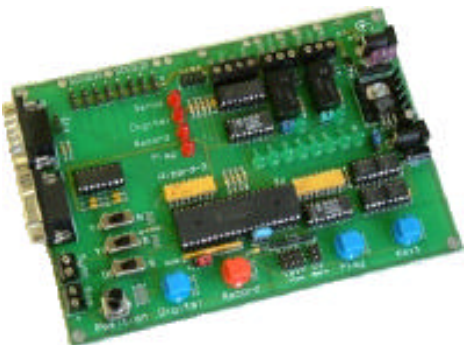
- Servos, power supply not included.

Board Size: 6-5/8" L x 4-1/2" W x 1" H

Power Requirements:

Regulated 9 VDC @ 2 Amp supply

Regulated 5 VDC @ 3 Amp supply



Wizard - III Controller (3)

(BPE # WAC-0030)

The Wizard - III Board will record and playback up to **13 minutes** of action for up to 8 R/C type servos and 8 digital outputs. The board incorporates features such as looping action with variable delay between loop sequences, auto start-up on power up, a connection interface terminal for a PIR, remote switch or floor sensor pressure pad to initiate playback and the ability to daisy chain several other boards together. Recording sessions for servos and digital channels are easily programmed through on-board program keys to build a track-by-track basis of servo motion and digital output action with no complex programming or computer hook-up required. All previously recorded tracks are re-played to aid synchronization. Playback of recorded sessions are easily activated by an on-board button, or remote switch. Programmed sequences are recorded to on-board EEPROM for storage, playback and editing. Board features a variety of digital output connections for various applications (2 on-board relays, and various other connections on-board). Board operates from a regulated 5 VDC @ 3 Amp power supply and regulated 9 VDC @ 2 Amp power supply.

- Servos, power supply not included.

Board Size: 6-5/8" L x 4-1/2" W x 1" H

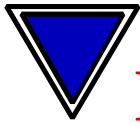
Power Requirements:

Regulated 9 VDC @ 2 Amp supply

Regulated 5 VDC @ 3 Amp supply

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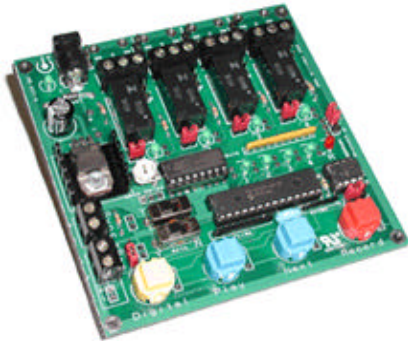
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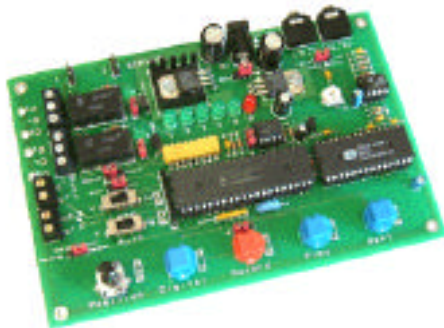


Board Size: 4" L x 4" W x 1/2" H
Power Requirements:
Regulated 9 VDC @ 2 Amp supply

Wizard - IV Controller (4)

(BPE # WAC-0040)

The **Wizard - IV Controller** or Programmable 4 - Channel Relay interface board will record and playback up to **25 minutes** of programmed ON and OFF action for **1 - 4 digital outputs / Relays**. The board incorporates such features as looping playback, variable delay between programmed routines, auto loop, auto start-up on power up, a connection terminal for remote switch activation by manual switch, PIR sensor, pressure pad, etc, to activate playback routines. Recording sessions are built up on a channel-by-channel basis - no complex programming needed or connection to a host computer to program routines. All programming is easily done on-board the controller through switches and LED status indicators. Board has many other features including on-board programming directly to the EEPROM for storage of the programmed routine and function selection switches for various board operation modes, Sync output to activate other boards, EEPROM protection, direct digital output pins for connection to the 0-4.5 Volt outputs. The relay contacts are rated at 30 Volt DC @ 2 Amps. Quick wire terminal blocks with wire tie down holes are built on-board for each relay. Board operates from a regulated 9 VDC @ 2 Amp power supply. • Power supply not included.



Board Size: 5-1/2" L x 5-1/2" W x 1/2" H
Power Requirements:
Regulated 9 VDC @ 2 Amp supply

Wizard - V Controller (5)

(BPE # WAC-0050)

The **Wizard - V Controller Board** is a small interface that will record and playback up to **5 minutes** of action for up to **2 servos** and **2 digital outputs** or on-board **relays**. It also incorporates a **4 minute audio recording / playback chip** and the ability to control 1 - servo channel either from user recorded moves, from a live audio signal source or from on-board digital record/playback sound chip. The Wizard - V board incorporates many features such as looping playback servo motion with variable delay between loops. An auto start-up on power option and on board connector for remote activation switching such as a PIR sensor, contact switch, relay closure or mat pressure pad to initiate playback. On-board selectable relays 2 Amp @ 30 Vdc. Relays have wire terminal connection blocks. 4 minute high quality sound chip- digital recording selected from either the line input or from the on-board sound IC chip and audio port. Programming recording sessions are built up on a channel by channel process - no complex programming is required. Board operates from a regulated 9 VDC @ 2 Amp power supply.

• Servos, power supply, sound source (CD player) not included.



Board Size: 3-1/2" L x 1-3/8" W x 1/2" H
Power Requirements:
Regulated 9 VDC @ 2 Amp supply

Wizard - VI Controller (6)

(BPE # WAC-0060)

The Wizard - VI Controller is a Random and Pulse motion Servo Controller.

The controller board will operate two servos channels each with there own random servo motion outputs and one channel with variable speed and time pulse motion servo output.

The controller allows for setting the range of each servo's travel motion limits, along with servo movement speeds and random time rates.

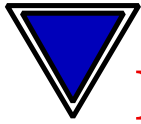
This controller is excellent for creating random moving eyes (left / right, up / down) head motions, ears, tails, eyelid blinks or in other effects where automated random servo motion is needed using a self-contained servo motion driver board. No programming or computer required.

Board operates from a regulated 9 VDC @ 2 Amp power supply.

• Power supply, servos not included.

For more information on these products or to place an order

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Wizard - VII Board (7)

(BPE # WAC-0070)

The Wizard - VII board is Coming Soon.

Wizard - VIII Board (8)

(BPE # WAC-0080)

The Wizard - VIII board provides a single channel, user programmable **5 - minute** digital output (relay) combined with a digital **4 - minutes** duration programmable IC sound chip. The supplied 4 - minute ISD sound chip has a great frequency response up to 3.4 KHz and a audio sample rate of 8.0 KHz. Audio can be re-recorded up to 100,000 times and can be stored up to 100 years.

One - Digital channel - either 0/4.5V @ 50mA output or on-board relay rated 30V @ 2A with wire terminal strip.

One - 4 minute quality digital IC sound chip.

Digital recording to Sound IC chip is through a line input (Computer sound card, CD player or sound source).

Potentiometer to adjust the time delay between loops in loop-play of recorded sound and relay action ON and Off.

Digital ON - OFF and GO programming buttons, AUTO - PLAY, PLAY - RECORD and SOUND - RELAY switches.

Sync output for multi-board and link to other Wizard board operation

REMote start option - for interfacing to sensors, switches, remote relays, pressure pads, PIR's etc.

Board operates from regulated 9 VDC @ 0.5 Amp power supply.

• Power supply, audio cable, remote amp and speakers not included.



Board Size: 3-1/2" L x 3-3/4" W x 1/2" H

Power Requirements:

Regulated 9 VDC @ 0.5 Amp supply

Animate with Sound Controller

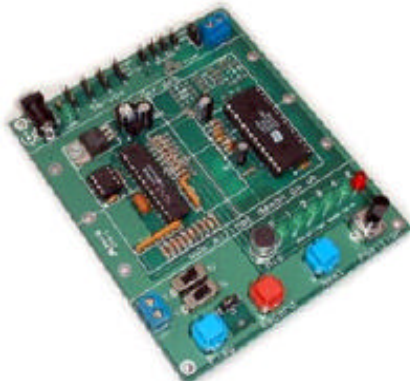
(BPE # ATC-0001)

The Animate Plus board is a full featured controller that will record and playback up to **40 seconds** of action for up to 4 R/C type servos, and 4 digital output channels. The on-board sound chip will record **20 seconds** of sound with built-in microphone and drive a small 8 ohm speaker from the on-board output terminal.

Board features loop playback mode, auto start-up mode and sensor input terminal for remote activation. Sound channel and Servo channels can be programmed as needed. All servo, sound recording and digital output programming control is done with on-board programming buttons. On board EEPROM records and stores programming sequences and sound for later playback and edit. The Animate controller is also used with "Alex the Talking Animatronic Head" kit.

Board operates from a regulated 9 VDC @ 2.5 Amp power supply, not included.

• Servo, speaker, sound source, (CD player) connection cables not included.



Board Size: 4-1/4" L x 5" W x 1-3/8" H

Power Requirements:

Regulated 9 VDC @ 2.5 Amp supply

AutoTalk Controller

(BPE # APC-0001)

The AutoTalk is a small controller board that **moves** a standard R/C **servo** in response to any **audio input signal**. Simply connect an amplified microphone, digital repeater, sound chip, CD player or any sound source to the on-board 1/8" input audio jack and your animatronics character will talk in sync with the audio. (servo moves synchronized to direct audio signal). Features adjustable gain,

servo travel end stops, servo reverse. audio input jack, power connector,

regulated power controller on-board, LED's status indicator, selectable sensitivity response level and servo quick connection pin header built onto board.

Board operates from a regulated 9 VDC @ 1 Amp power supply.

• Servo, sound source, (CD player, mic) connection cables not included.

• Power supply not included.



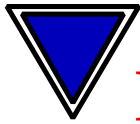
Board Size: 2-3/4" L x 2-1/2" W x 1/2" H

Power Requirements:

Regulated 9 VDC @ 1 Amp supply

For more information on these products or to place an order

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Board Size: 2-1/2" L x 1-1/2" W x 5/8" H
Power Requirements:
Regulated 5 VDC @ 1 Amp supply

Puppet - I Controller (1)

(BPE # PCA-0010)

The Puppet - I controller is a small board that features one channel control for a hobby type R/C servo. The controller records up to **4 minutes** of programming to an EEPROM with the on-board thumb wheel and push button. The board features a loop playback mode, auto start-up and variable loop playback time delays. Recording sessions for servo are easily programmed through on-board program button and servo position potentiometer. Controller has the ability to daisy chain several other boards together. Board operates from a regulated 5 VDC @ 1 Amp power supply.

- Servo, power supply not included.



Board Size: 2-1/2" L x 1-1/2" W x 5/8" H
Power Requirements:
Regulated 5 VDC @ 1 Amp supply

Puppet - IE Controller (1E)

(BPE # PCA-0015)

This controller is very similar in function to the Puppet - I Controller Board except that you can program 2 different servo control routines into the single on-board EEPROM for a total time of 6 minutes of record playback. Recorded sequential routines are started by the on-board GO button or activated by an optional remote switch, relay or wireless remote controller hooked-up to the puppet on-board connector pins. When the puppet controller is activated, the first recorded routine is played back with a pause at the end of the playback routine. With another activation input, the second programmed playback routine is started. At the end of the second routine, the controller returns to routine one, waiting for a new activation sequence.

A single routine can be any length from 1 to 6 minutes or there can be two routines with any length combination for a total of 6 minutes maximum.

Board operates from a regulated 5 VDC @ 1 Amp power supply.

- Servo, power supply not included.



Board Size: 2-1/2" L x 1-1/2" W x 5/8" H
Power Requirements:
Regulated 5 VDC @ 1 Amp supply

Puppet - II+ Controller (2)

(BPE # PCA-0001)

The Puppet - II controller is a small board that features one control channel for R/C type servo and one digital (On/Off relay) channel for controlling other connected devices such as lightning equipment, AC powered devices, sound systems, air valves, etc. The controller records up to **4 minutes** of programming to an EEPROM with the on-board thumb wheel and push buttons. The board features a loop playback mode, auto start-up and variable loop playback time delays. Recording sessions for servo channel and digital channel are easily programmed through on-board program buttons and servo position potentiometer, no computer is needed. Controller has the ability to daisy chain several other control boards together. Relay is rated at 24 Vdc @ 1 Amp. Board operates from a regulated 5 VDC @ 1 Amp power supply.

- Servo, power supply not included.



Board Size: 2-3/4" L x 3-5/16" W x 1/2" H
Power Requirements:
Regulated 5 VDC @ 2.5 Amp supply

Puppeteer - III Joystick Controller (3)

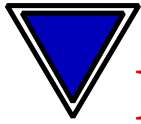
(BPE # JSC-0510)

The Puppet - III controller is a dual channel manual and automated servo controller capable of control and/or recording and playback of up to **13 minutes** of dual servo movements and single digital / relay output sessions. The controller is designed to interface with many standard analog game control joysticks. The controller features loop playback with variable delay between loops, synchronized playback mode with other Wizard or Puppet - III controllers, servo travel movement limit setting and control of a single on-board relay digital channel. Thumb and finger buttons on joystick are used to activate on-board relay, start recording sequences to EEPROM and initiate recorded playback sequences. On-board LED's help program and edit seamless servo motion segment sequences. Board operates from a regulated 5 VDC @ 2.5 Amp power supply.

- Servos, power supply and Joystick not included.

For more information on these products or to place an order

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Board Size: 1-7/8" L x 1" W x 1/2" H
Power Requirements:
Regulated 9 VDC @ 0.5 Amp supply

Programmable Single Relay - 1M (BPE # PWC-2030)

The programmable single relay - 1M module has sufficient memory to record up to **4.5 hours** of Relay ON / OFF programmed control actions. Programming is easily done on-board with a set of jumpers. Playback can be initiated by remote switch, sensor, external trigger relay, automated controller or set for on-board repeat looping playback activation. The relay contacts are rated at 24 Volt DC @ 0.5 Amps and are near silent in sound when activating. Programming routine is stored in EEPROM. The module draws only 4 mA and 15 mA with the relay energized. The programmable single relay module is very small only 1-7/8" L x 1" W x 1/2" H, easily fits on a 9 Vdc battery. Uses a 9 Volt battery or 9 Volt dc AC wall adapter. Supplied built and tested.

- 9 volt power supply not included.



Board Size: 3" L x 1-1/2" W x 1/2" H
Power Requirements:
Regulated 9 VDC @ 0.5 Amp supply

Programmable Single Relay - 1B (BPE # PWC-2035)

The programmable single relay B module is similar to the programmable single relay - M module in operation with memory to record up to **4.5 hours** of Relay ON / OFF programmed actions, but has a larger relay on-board to handle big output loads connected through the on-board relay. (**30 Vdc @ 2 amp**) Programming is easily done on-board with a set of jumpers. Playback can be initiated by remote switch, sensor, external trigger relay, automated controller or set for on-board repeat looping playback automated activation. Board has power On/Off switch, status LED's and on-board solder pads for permanent wiring directly to board. Programming routine is stored in EEPROM. Uses a 9 Volt battery or 9 Volt dc AC wall adapter. Supplied built and tested. Great for the Animatronics and Haunted Industry. Very versatile relay board.

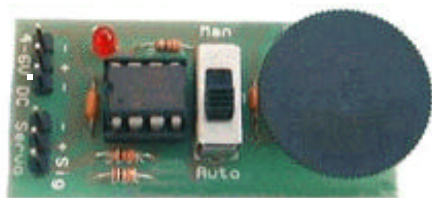
- 9 volt power supply not included.



Board Size: 3-5/8" L x 1-1/4" W x 3/4" H
Power Output: 10 mA / adjustable 0-10 Vdc

Servo to Analog Converter Module (BPE # PWC-2202)

Servo-analog converter board provides a two channel capability of converting standard **R/C servo PWM pulses (servo movements) to 0-5 and/or 0-10 V DC output voltage** suitable for controlling standard lighting dimmer controller packs or any device that requires a 0-5 and/or 0-10 V DC controlled analog input signal to operate. Specifications: Servo input pin headers from R/C unit. Two channel analog 0-5 and/or 0-10 V DC output is available from the 4 way terminal block for wire connection. No external power supply is required, the module takes it's supply from the incoming servo drive connections. Servo inputs: 1 to 2msec pulses. A 1-msec servo pulse gives 0 V DC output. A 2-msec servo pulse gives 10 V DC output at 0-5 and/or 0-10 V DC. Analog power outputs in 80mV increments. 125 steps between 0-5 and/or 0-10 V DC available. On board resistors may also be changed for other driver output power values 0-10 Vdc. Max module driver output current for external devices is 10 mA @ 0-10 Vdc.



Board Size: 2-1/8" L x 1" W x 1/2" H
Power Requirements:
Regulated 5 VDC @ 0.5 Amp supply

Servo Tester (BPE # MST-0010)

This small board will be found invaluable for projects / models using R/C type hobby servos. In Automatic mode, servo check produces a pulse stream that should make the servo traverse smoothly and slowly through a full 90° action with a rapid return. In Manual mode, the servo position is fully adjustable from 0 to 90° by using the on-board thumbwheel. The on-board LED lights at 15° intervals to allow accurate alignment of servos and linkages during servo to mechanical construction. Includes 3-pin header for all standard servo connection and 2 pin power connection. Supplied built and tested. Board operates from a regulated 5 VDC @ 0.5 Amp power supply.

- Servo, power supply not included.

For more information on these products or to place an order

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