

Compound Entrance

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Relay Outputs

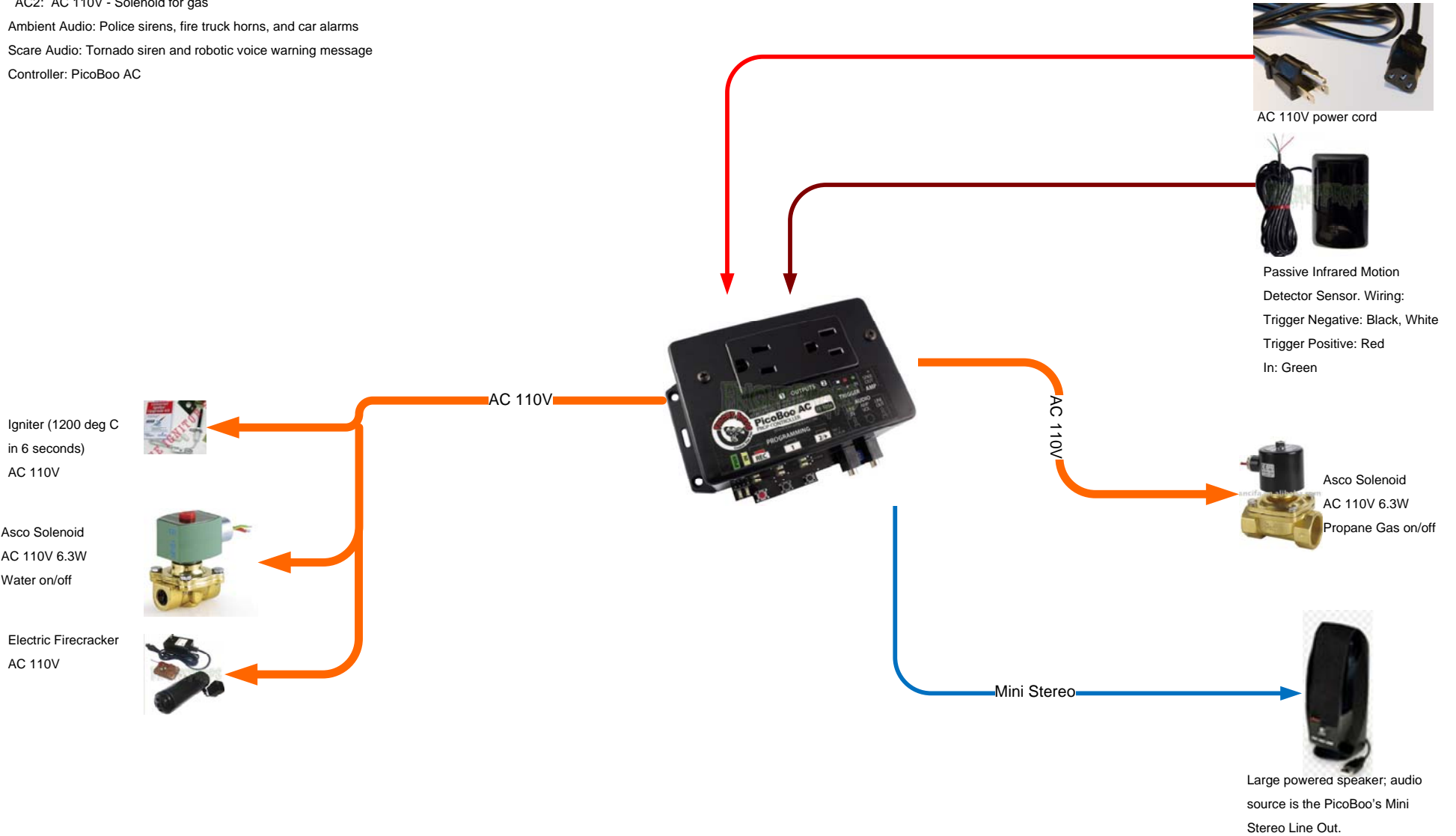
AC1: AC 110V - Electric firecracker, igniter, and solenoid for water

AC2: AC 110V - Solenoid for gas

Ambient Audio: Police sirens, fire truck horns, and car alarms

Scare Audio: Tornado siren and robotic voice warning message

Controller: PicoBoo AC



Mad Dog in Great Room

Mad Dog

Trigger: Beam Sensor at top of steps from foyer to great room

Power In: 110 VAC

Power Out:

1 12VDC power supply for pneumatic cylinder extension

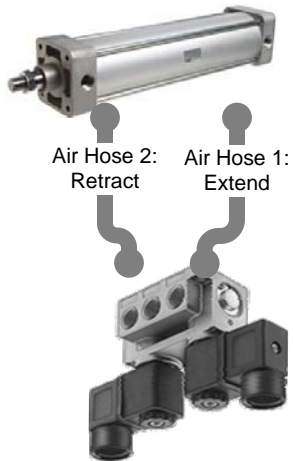
2 12VDC power supply for pneumatic cylinder retraction

Ambient Audio: none

Scare Audio: Vicious barking 4s for extension; growling 6s for retraction

Controller: PicoBoo AC

Pneumatic Cylinder, McMaster-Carr PN 6491K36; and
Solenoid Air Directional Control Valve, McMaster-Carr PN 6196K24



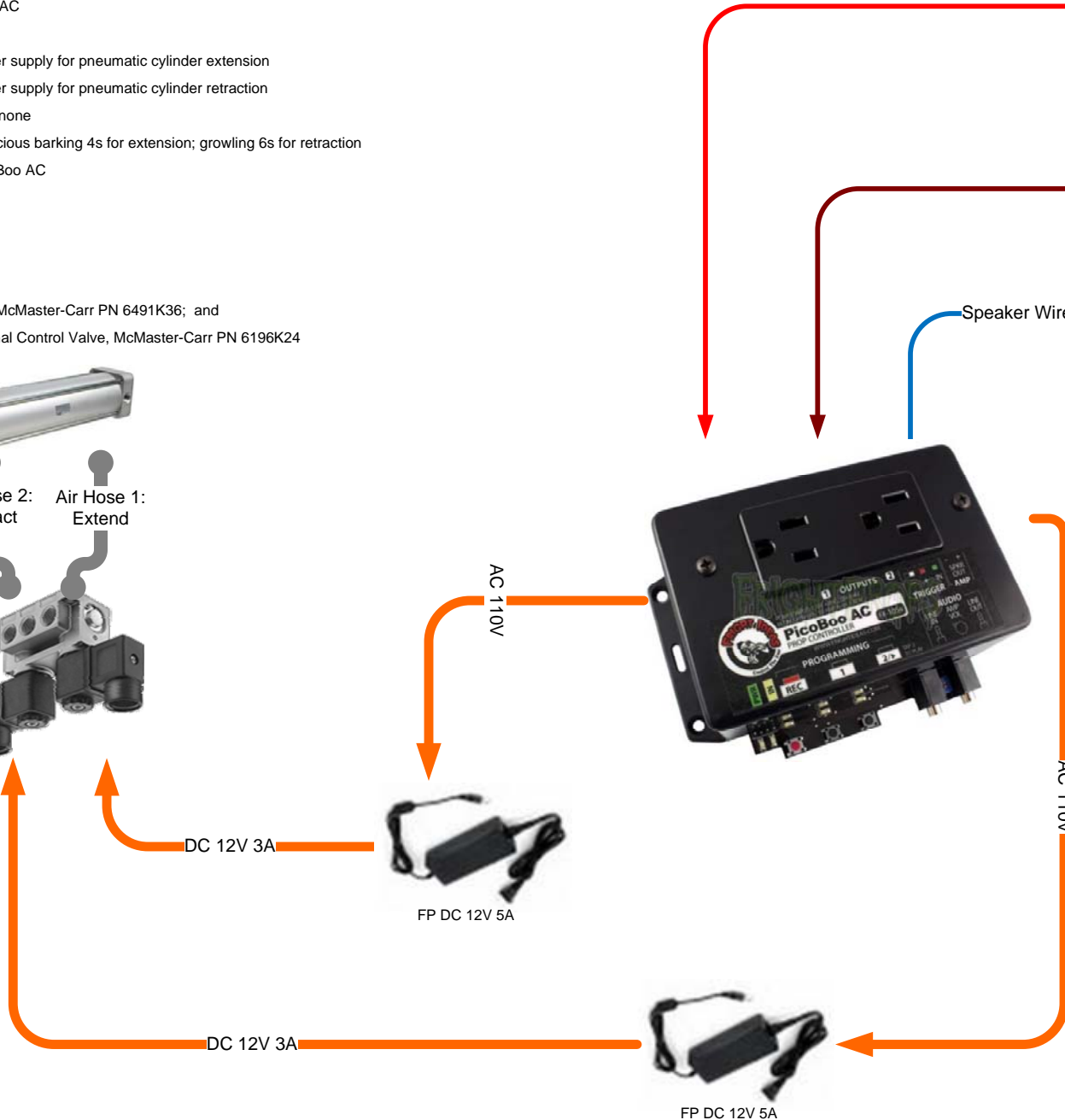
AC 110V power cord



Beam Sensor. Wiring:
Trigger Negative: Blue, White
Trigger Positive: Brown
In: Black



Non-powered speaker
driven by PicoBoo's 10W output and
amplified by an old stereo receiver



UC Davis Box

UC Davis Box

Trigger: Beam Sensor 2 feet in front of the box.

Power In: 110 VAC

Power Out:

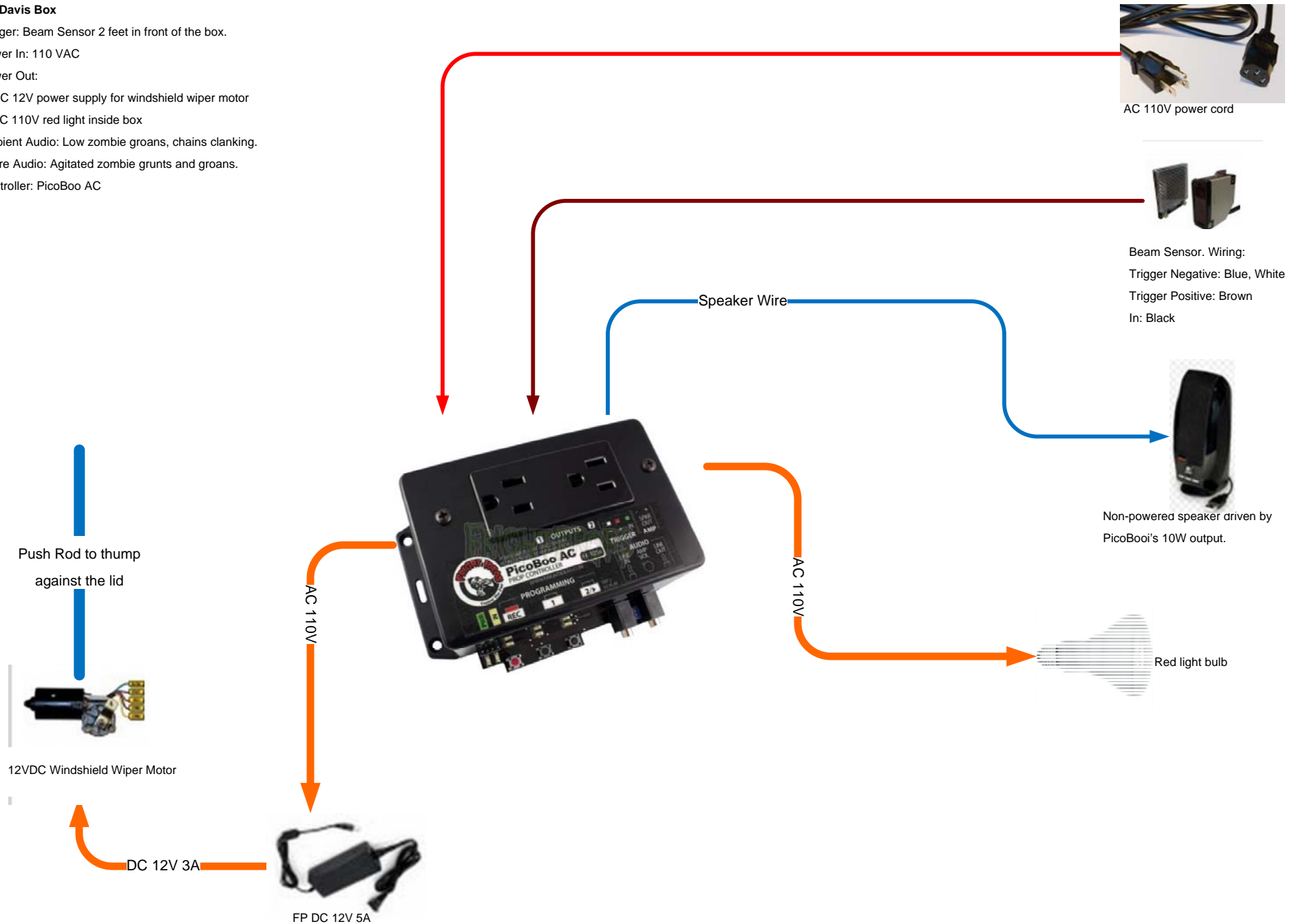
1 DC 12V power supply for windshield wiper motor

2 AC 110V red light inside box

Ambient Audio: Low zombie groans, chains clanking.

Scare Audio: Agitated zombie grunts and groans.

Controller: PicoBoo AC



AC 110V power cord



Beam Sensor. Wiring:
Trigger Negative: Blue, White
Trigger Positive: Brown
In: Black



Non-powered speaker driven by PicoBoo's 10W output.



Red light bulb

Push Rod to thump against the lid



12VDC Windshield Wiper Motor

DC 12V 3A



FP DC 12V 5A

Chain Saw in Shower

Chain Saw

Trigger: Magnetic Door Sensor

Power In: AC and DC

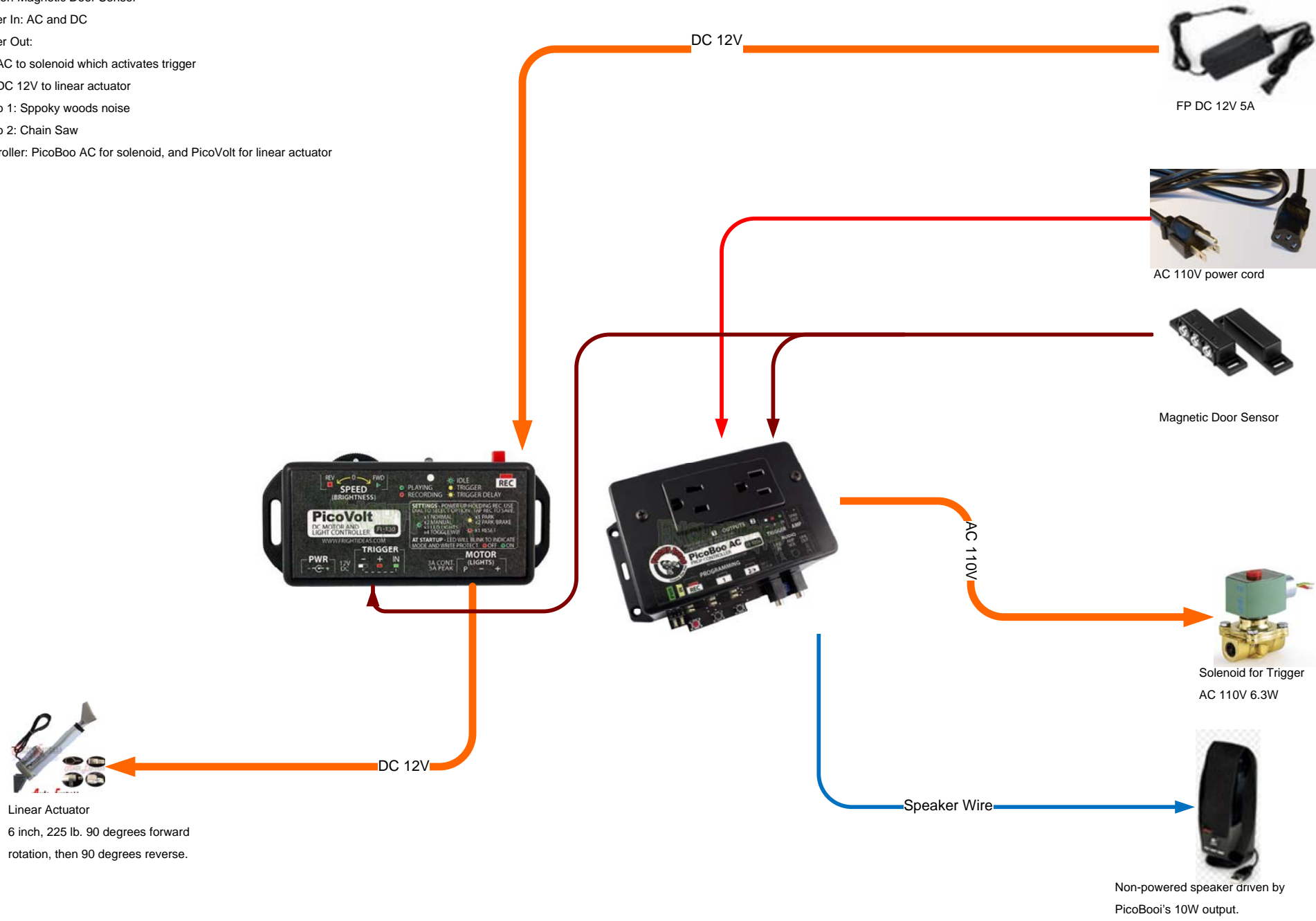
Power Out:

- 1: AC to solenoid which activates trigger
- 2: DC 12V to linear actuator

Audio 1: Spooky woods noise

Audio 2: Chain Saw

Controller: PicoBoo AC for solenoid, and PicoVolt for linear actuator



FP DC 12V 5A



AC 110V power cord



Magnetic Door Sensor



Solenoid for Trigger
AC 110V 6.3W



Non-powered speaker driven by
PicoBoo's 10W output.



Linear Actuator
6 inch, 225 lb. 90 degrees forward
rotation, then 90 degrees reverse.

Anaconda Head

Anaconda Head

Trigger: Garage Door (Same as Anaconda Tail)

Power In: 12VDC 5A

The 4 Relay Outputs Control these devices:

- 1: DC 12V - Linear Actuator Extend
- 2: DC 12V - Linear Actuator Retract
- 3: AC 110V - Solenoids for fire and water
- 4: AC 110V - Red floodlights (eyes) and Igniters

Ambient Audio: Spooky woods noises: Owls, coyotes, bats, footsteps.

Scare Audio: Loud hissing for 6-12 sec at a time, at 00s, 10s, and 30s.

Controller: PicoBoo Plus



FP DC 12V 5A



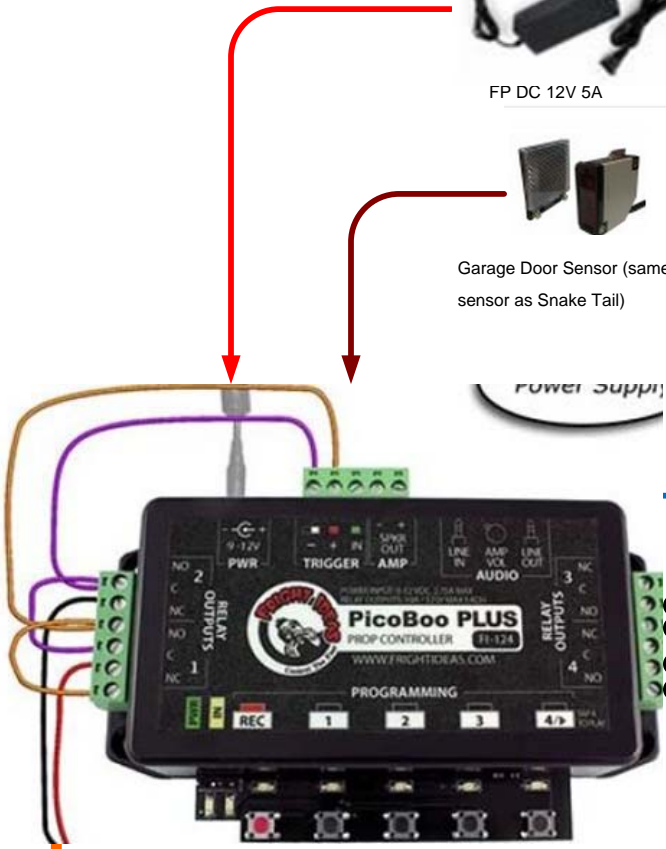
Garage Door Sensor (same sensor as Snake Tail)



Non-powered speaker driven by PicoBoo Plus's 30W output.



Power Supply



Speaker Wire

DC 12V



Linear Actuator
6 inch, 225 lb

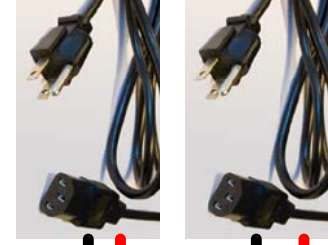
This diagram from FrightProps shows how to use the PicoBoo or PicoBoo Plus as a switch for AC power wiring. We used this approach for the four AC devices on this prop: the eyes (red floodlights), igniters, and solenoid valves.

Controlling 120 Volt Loads
The easiest way to control a 120 volt load is to wire an extension cord through one of the output relays. Cut one of the wires, strip the two ends, and insert them into the C and N.O. terminals. If it's a three-wire extension cord, cut the black wire as previously described.

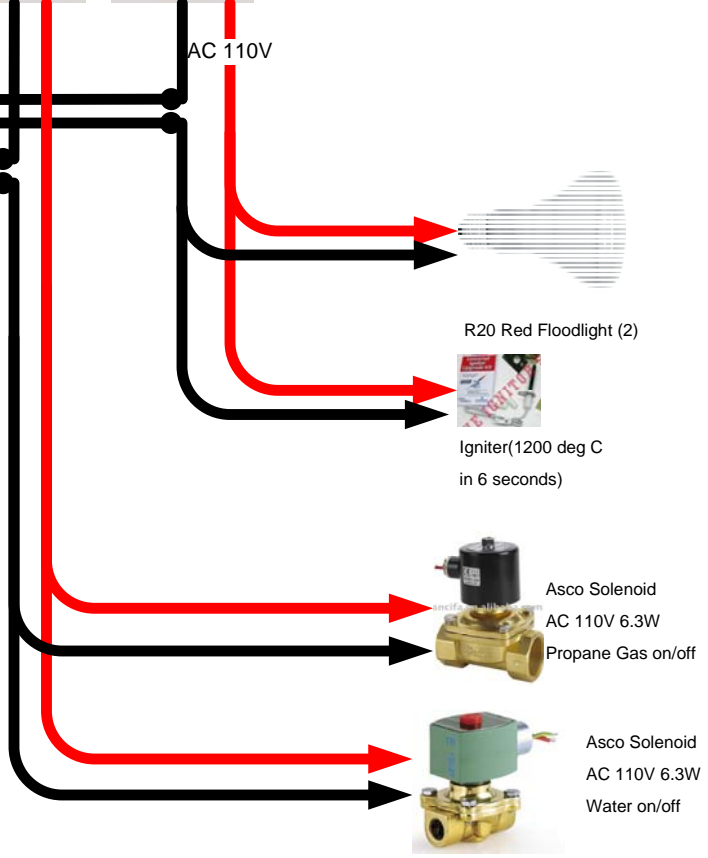
TO 120 VOLT DEVICE YOU WANT TO CONTROL WITH OUTPUT 1

TO WALL OUTLET

! TAKE APPROPRIATE SAFETY PRECAUTIONS WHEN WIRING 120 VOLTS.



AC 110V



R20 Red Floodlight (2)

Igniter(1200 deg C in 6 seconds)

Asco Solenoid
AC 110V 6.3W
Propane Gas on/off

Asco Solenoid
AC 110V 6.3W
Water on/off

Anaconda Tail

Anaconda Tail

Trigger: Beam Sensor (Same as Anaconda Head)

Power In: 10A

Power Out:

- 1: 110VAC to 12VDC Power Supply to motor for lifting mannequin
- 2: flood light for illuminating mannequin

Audio 1 (ambient): Cauldron bubbling, boiling, hissing.

Audio 2 (scare): Girl Screaming

Controller: PicoBoo AC



AC 110V power cord



Beam Sensor. Wiring:
Trigger Negative: Blue, White
Trigger Positive: Brown
In: Black
(the same sensor also triggers the Anaconda Head)



Non-powered speaker driven by the PicoBoo's 10W output.



0955-LINK-ARM2
0956-MOT2



DC 12V

FP DC 12V 10A



AC 110V



Amber flood light, on during the lifting cycle.

