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PRODUCT MANUAL

Creature Crate Kit



SCAN CODE TO VIEW A STEP-BY-STEP INSTRUCTIONAL VIDEO FOR THIS KIT!



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Safety Guidelines:

Do not connect power until you have read these instructions!

This kit contains everything necessary to build an automatic haunted house creature crate (excluding the wooden crate). Take your time during assembly and be sure to read instructions completely before you proceed.

Required Tools for Assembly:

- Electric Screwdriver / Drill
- Hole Drill Bit: 1” in size
- Drill Bit: 1/4”
- Pencil
- 7/16” Wrench or Adjustable Wrench
- Phillips Screwdriver
- Wood screws

INSPIRATION!

You can decorate your crate however you choose. It’s fun! Here are a few classic examples of Creature Crates:

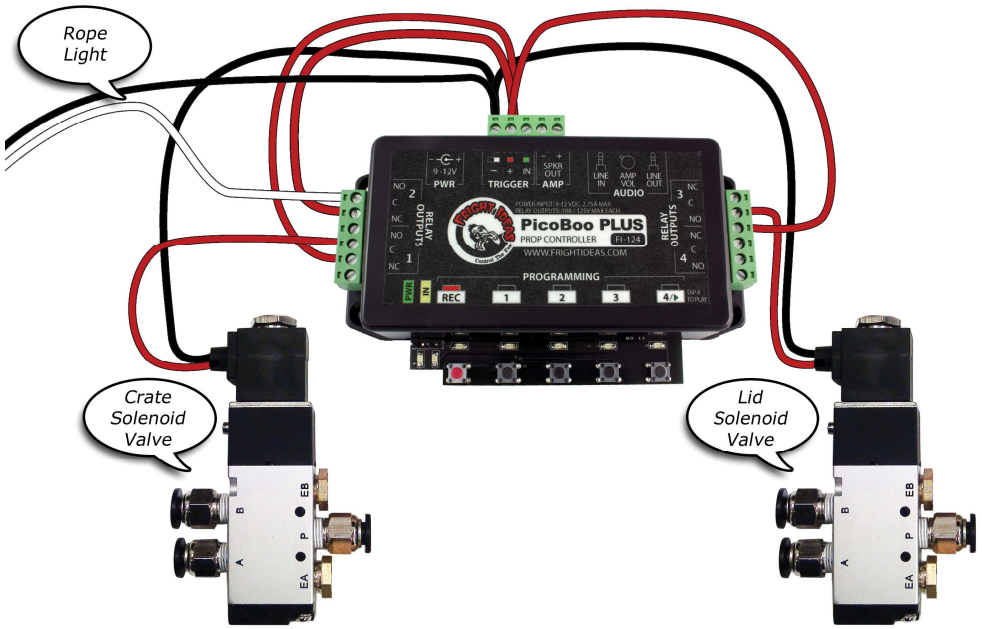


Adding some rattling chains can really be a great addition to this effect. If you add a Lid Opener to the effect you can even have a character pop out to add another level surprise and scare to the finished prop! Have fun, get creative and make sure to send us pictures or videos of your Creature Crate creations!

APPENDIX A - ADDING A LID OPENER

These instructions only apply if you are adding a lid opener to your creature crate.

1: Install the lid opener as per the Lid Opener Kit Instructions.
2: Install the PicoBoo PLUS or PicoBoo MP3 as per this diagram:



3: Program the controller as normal. Button 1 will make the crate jump, Button 2 will make the light flash and Button 3 will open the lid!



1.5" Bore 2" Stroke Cylinder



Cylinder Hook-Up Kit



Cylinder Mounting Nut (for 1.5")



Front Flange (for 1.5")



Rubber Foot w/ Attachment



4x 1/4-20 x 1.5" Bolts (All Thread)



Rope Light Assembly



LocTite 271 (.5ml Capsule)



Tie Down Kit



4x 1/4-20 Lock Nuts



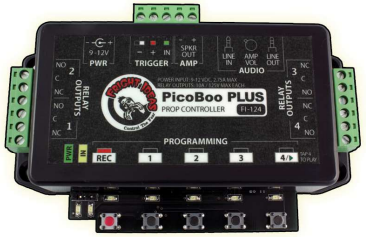
4x 1/4" Washers



Controller:



PicoBoo



PicoBoo Plus
(for adding a lid opener)

Trigger:



PIR Motion Sensor



Step Mat



Wireless Trigger



Beam Sensor



Hand Trigger

Speaker:

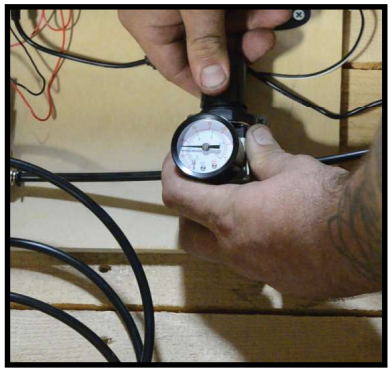


POWER AND AIR UP





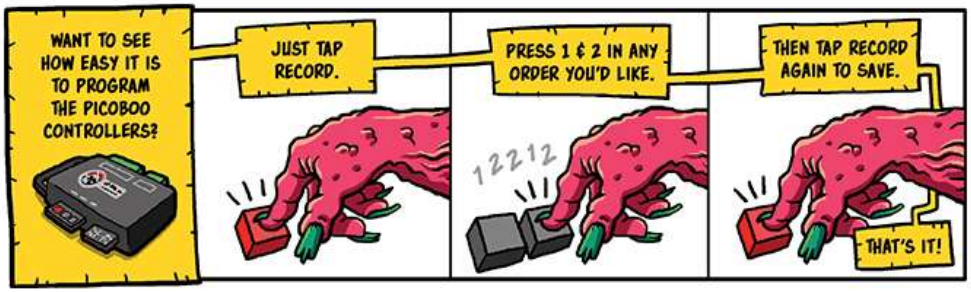
Connect your power supply to power and your airline to your air compressor.



Use the regulator to set the pressure to the prop. We recommend 30-40 PSI. If any air leaks are detected, disconnect air and remove the fitting where the air is leaking. Add some additional Teflon Tape to the fitting, and re-install it.

PROGRAM YOUR PROP!

Programming with PicoBoo Controllers is easy! All programming is done in real time with buttons and you'll hear your loaded audio play while your program. If you followed our wiring on page 11, Button 1 will make the crate jump and Button 2 will make the light flash!



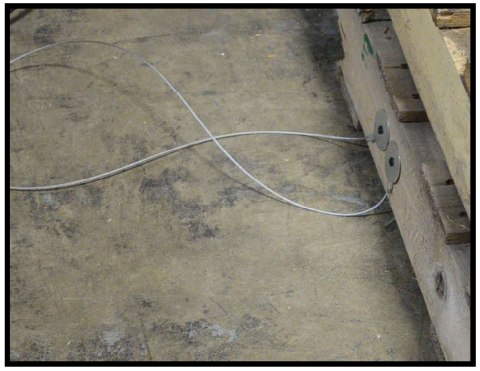
INSTALL THE TIE DOWN KIT

You can optionally install the Tie Down Kit to help prevent the crate from "walking away" during operation. To do this secure one end of each Tie Down Cable to the crate by placing a screw through the washer and then screwing into the crate through the loop in the cable.









Do the same for the other cable, and then connect the two loose ends to something stable to hold the crate in place.

SELECTING AND MODIFYING THE CRATE

Install 2 x 4 Pieces:
Build or use an existing crate of any size (see last page of this manual). The crate should have 2 x 4's mounted on-end to the bottom as shown to the right. The kit is designed only to work with a crate setup in this way. You may also mount your crate to a skid (also known as a pallet).



DRILL MOUNTING HOLES

Once you have your crate ready, locate where you want the right front of the crate to be. Place the Cylinder Mounting Flange in this corner and mark the 4 corner holes and large center hole with a pencil or marker.





Use a 1/4" drill bit to drill out the corner holes and a 1" hole saw to drill out the center hole.





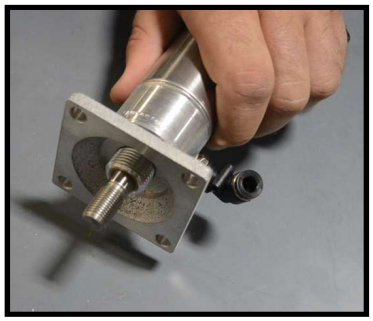
Use the same hole saw to drill a hole in the back of the crate to feed your power and airline through.

PREPARE THE CYLINDER



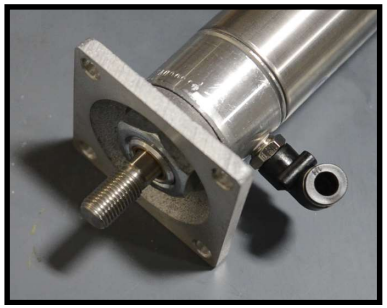
Install the elbow fittings into the cylinder and tighten with a wrench.

Attach the mounting flange to the nose of the cylinder. Use some Loctite on the threads to make sure the mounting nut stays in place. Tighten well.



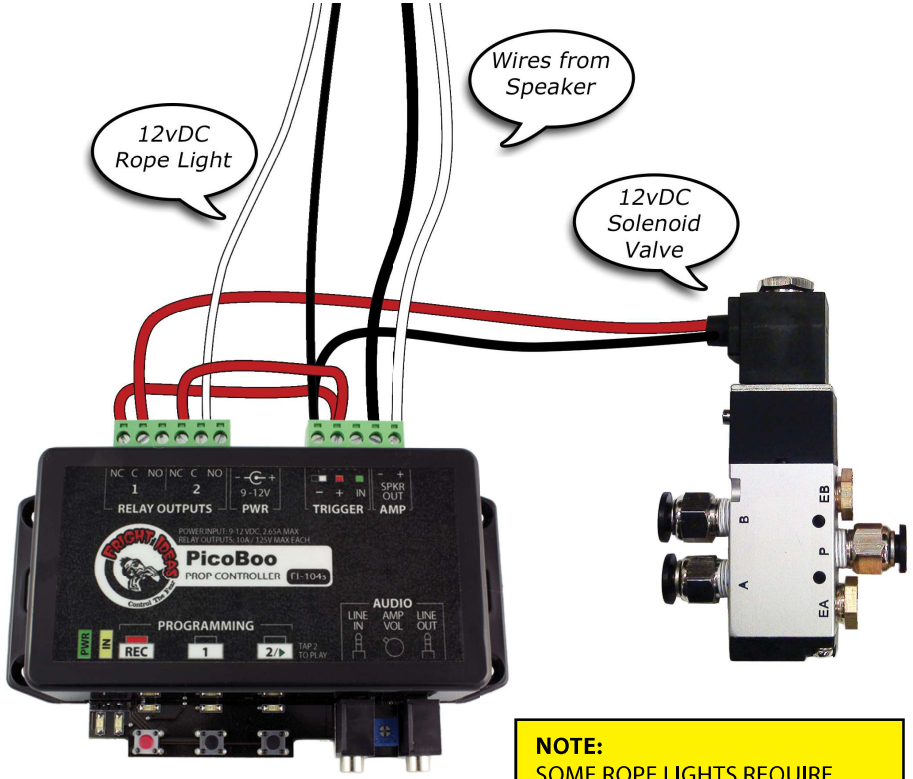






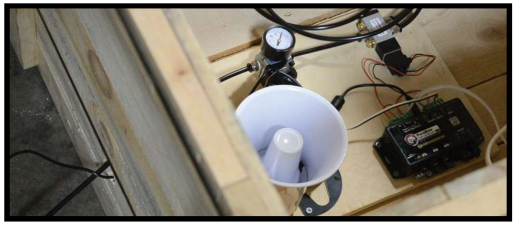
WIRE VALVE, ROPE LIGHT AND SPEAKER TO THE CONTROLLER

All of the components in this kit are 12vDC, so we can power them all with a single 12vDC power supply! Follow the wiring diagram below to wire your light, valve and speaker to your controller. Wiring is the same for any PicoBoo.



NOTE:
SOME ROPE LIGHTS REQUIRE CORRECT POLARITY. CHECK YOUR LIGHT AND WIRE ACCORDINGLY!

RUN POWER TO CONTROLLER

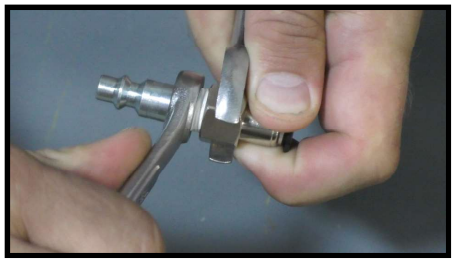


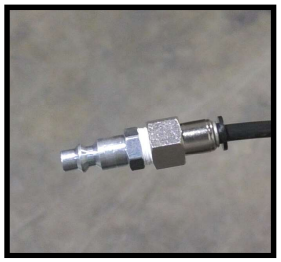
Thread your power supply wires through the hole drilled earlier and connect to the controller.



Thread 1/4” Airline into the crate via the hole drilled earlier and plug it into the Air In Port of the Regulator.

Assemble the two pieces of the Quick Connect with Push-On and secure them tightly with a wrench. Install the fitting onto the airline leading to the Air In Port of the Regulator.

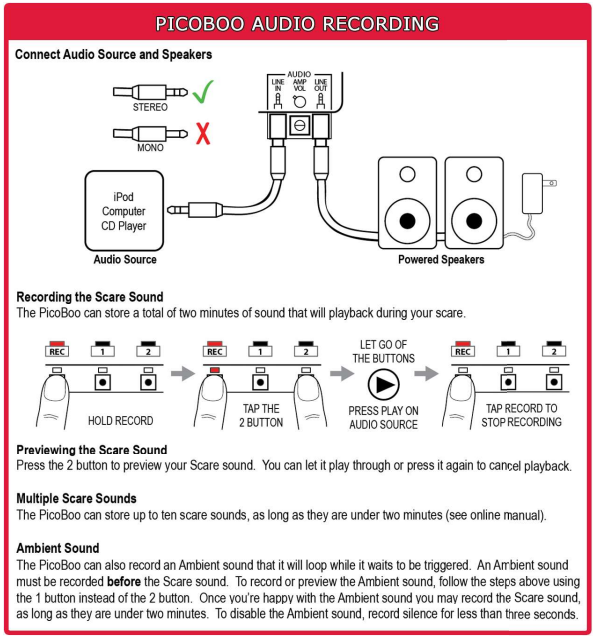






LOAD AUDIO ONTO YOUR CONTROLLER

If you’re adding audio to your prop, now is a good time to load audio onto the controller. Consult your manual for instructions on how to load audio onto your specific controller. To the right is a sample of the process for a PicoBoo controller. Every controller is different, so be sure to follow the instructions for your controller specifically!



MOUNT THE CYLINDER



Place the cylinder with mounting flange installed onto the pre-drilled holes. Insert bolts into the 4 corner holes of the mounting flange.



Flip the crate on its side to access the bolts from the bottom.



Place washers on the bolts and hand tighten the locknuts into place.





Use a wrench to hold the nuts in place and tighten the bolts. It helps to either use an extension bit for this step or to have an assistant hold the nuts while you tighten the bolts.

ATTACH THE RUBBER FOOT

Once the cylinder is mounted you can test-fit the rubber foot. First thread the jam nut onto the cylinder rod, then thread the foot into place. Hand tighten only for now.





-- OPTIONAL - CUT FOOT TO LENGTH IF NEEDED --

Depending on how your crate was constructed, the rubber foot may be too long to sit flush when the cylinder is retracted.





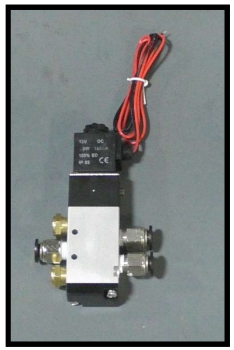


If this is the case, you can measure the amount of length you need to remove and cut the threaded shaft of the foot shorter by that amount. Once you re-install the foot it should sit flush beneath your crate!



Once you have verified that your rubber foot is the correct length and that your crate will rest flush against the ground when the cylinder is retracted, you can use wrenches to tighten the foot onto the cylinder rod.

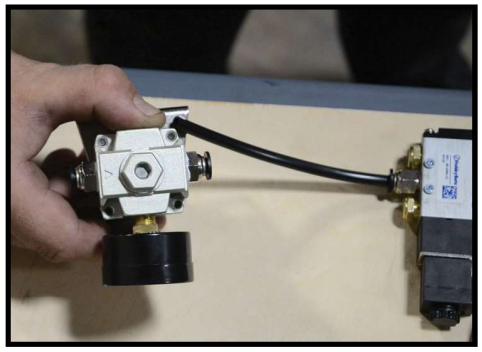
ASSEMBLE VALVE, REGULATOR AND RUN AIRLINE

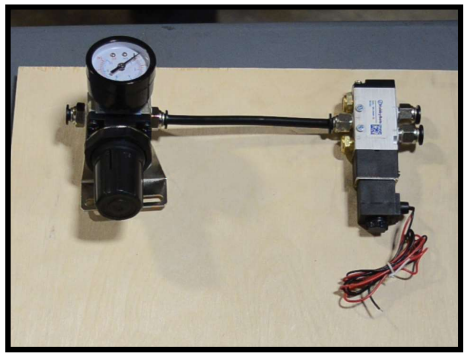


Install fittings into the solenoid valve as shown on the left.

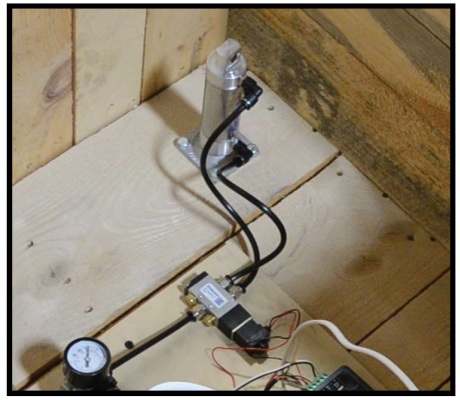
Assemble and install fittings into the regulator as shown on the right.







Connect the air out of the regulator to the P Port of the solenoid using 1/4" Airline. Make sure the arrow marking flow direction on the bottom of your regulator matches the direction of air flowing from your compressor.



Use 1/4" Airline to connect the ports of the solenoid to the ports of the cylinder. Solenoid Port A goes to the fitting nearest the bottom of the crate. Solenoid Port B goes to the fitting nearest the end of the cylinder.