




# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Required Components

1.	2.	3.	<b>BOM</b>
			<ol style="list-style-type: none"> <li>1. Peppa Pig Singing Plush Doll</li> <li>2. 7" cable with 3.5 mm jack (female) end</li> <li>3. Cable tie / zip tie (small – around 15 cm)</li> </ol>

## Required Tools

- Small Philips or flathead screwdriver
- Drill with 1/8" drill bit
- Flush cutters
- Wire strippers
- Soldering iron and solder

## Required Personal Protective Equipment (PPE)

- Safety glasses

# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Assembly Instructions

### Step 1

Turn over the Peppa Pig and lift the dress to reveal a Velcro strip along the back.

Open up the inside compartment.



### Step 2

Remove the white speaker/battery compartment from inside the Peppa as shown in this picture.

Set aside the Peppa Pig for now.



# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 3

Turn it around and unscrew the screw to the battery compartment, shown in red.

Remove the battery compartment lid.

**NOTE:** set aside screw in a safe place, or leave in the lid.



## Step 4

Remove the batteries, circled in blue. Set aside.

Remove the two screws circled in red.

**NOTE:** You may need to use something to pry the batteries out, such as a small screwdriver or pliers.

**NOTE:** Set aside screws in a safe place.



# Switch Adapted Peppa Pig

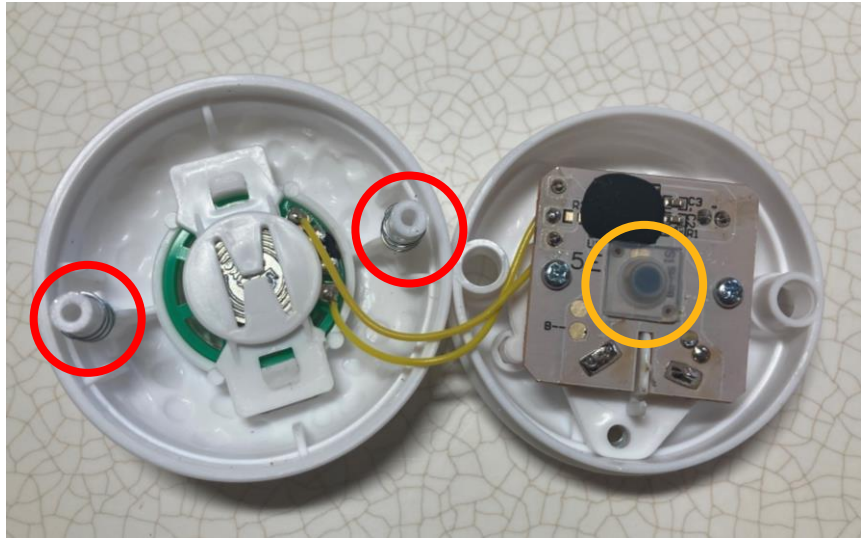
## ASSEMBLY GUIDE

### Step 5

Separate the two halves of speaker compartment.

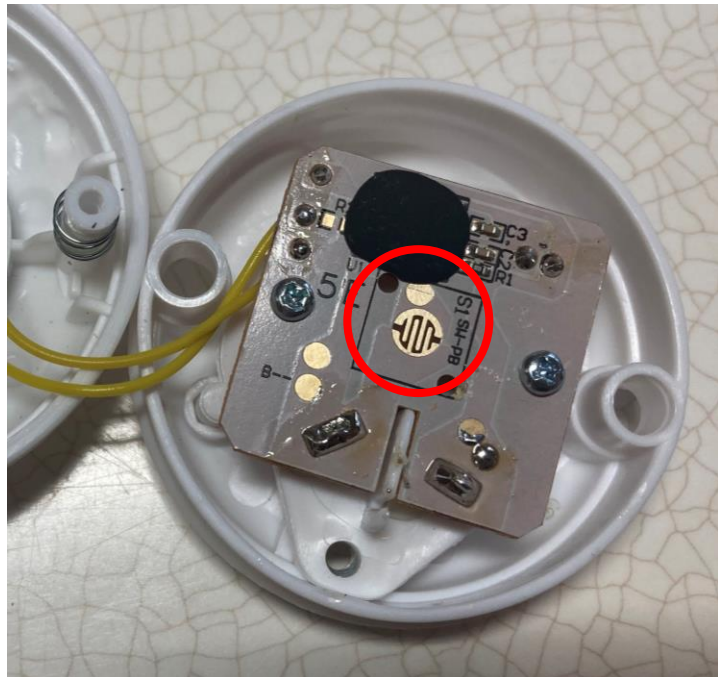
Remove the two springs, circled in red, and set aside in a safe place.

Remove the silicone button cover circled in yellow. You should be able to pull the silicone legs out of the small holes.



### Step 6

With the silicon button removed, a zig zag shape and a small circle on the circuit board will be revealed, as shown circled in red.





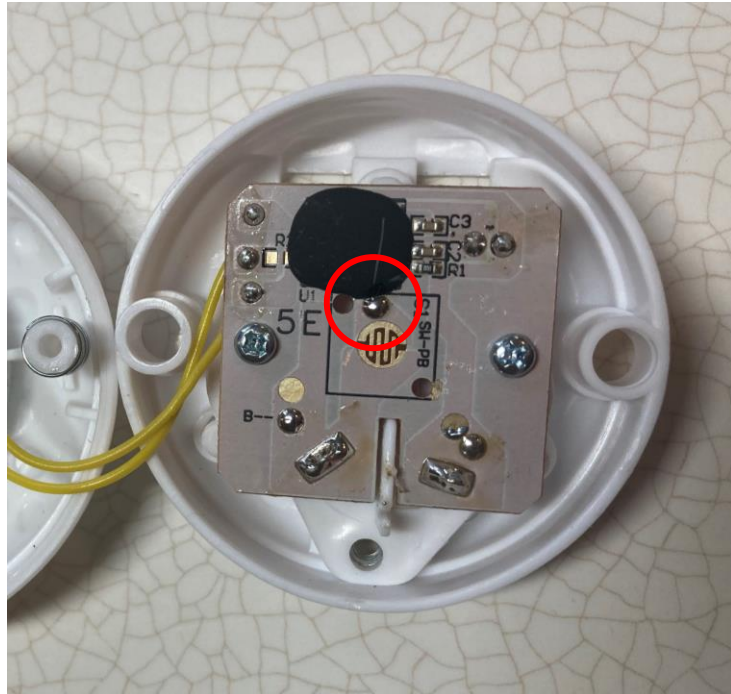
# Switch Adapted Peppa Pig

## ASSEMBLY GUIDE

### Step 7

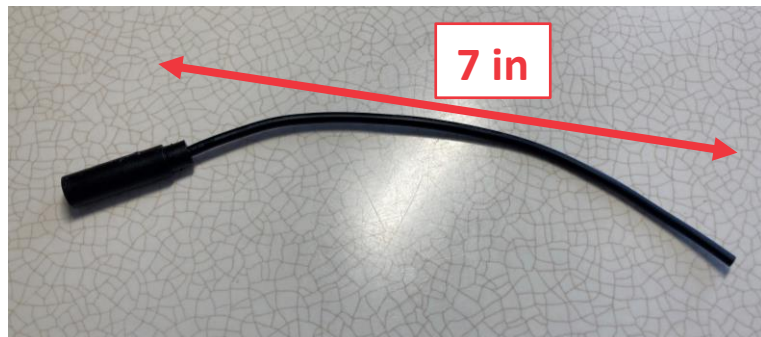
On the small circle, shown circled in red, place a blob of solder.

This can be done by placing your solder iron on the circle, and then bringing the solder wire in contact with the circle. It should melt and flow onto the circle, leaving a blob as shown here.



### Step 8

Take the wire with the 3.5 mm jack end and cut it to be approximately 7 inches (or 18 cm).



# Switch Adapted Peppa Pig

## ASSEMBLY GUIDE

### Step 9

Strip approximately 2 cm of the outside wire, revealing the wires on the inside.

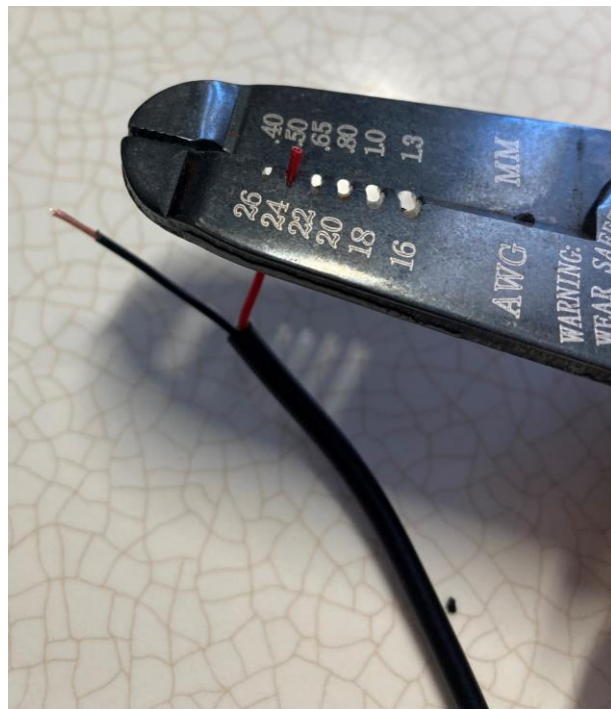
The ideal size for the wire strippers is 14, but if your wire strippers are smaller, just close them until you feel some give.

If any of the internal wires get cut, you can cut off this section of wire and try again.



### Step 10

Next, strip approximately 0.5 cm of the individual internal wires

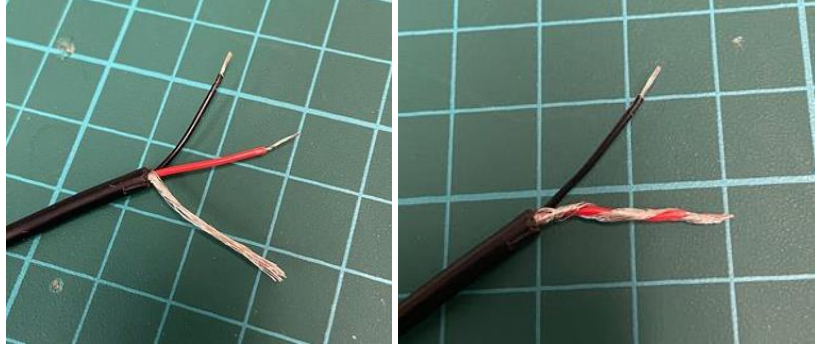


# Switch Adapted Peppa Pig

## ASSEMBLY GUIDE

### Step 11

If there are three internal wires (red, black, and exposed) like in the first picture, then strip off more of the red insulation (1.5 cm) and take the red wire and the exposed wire and twist them together like the second picture.



If there are only two internal wires, then skip this step.

### Step 11

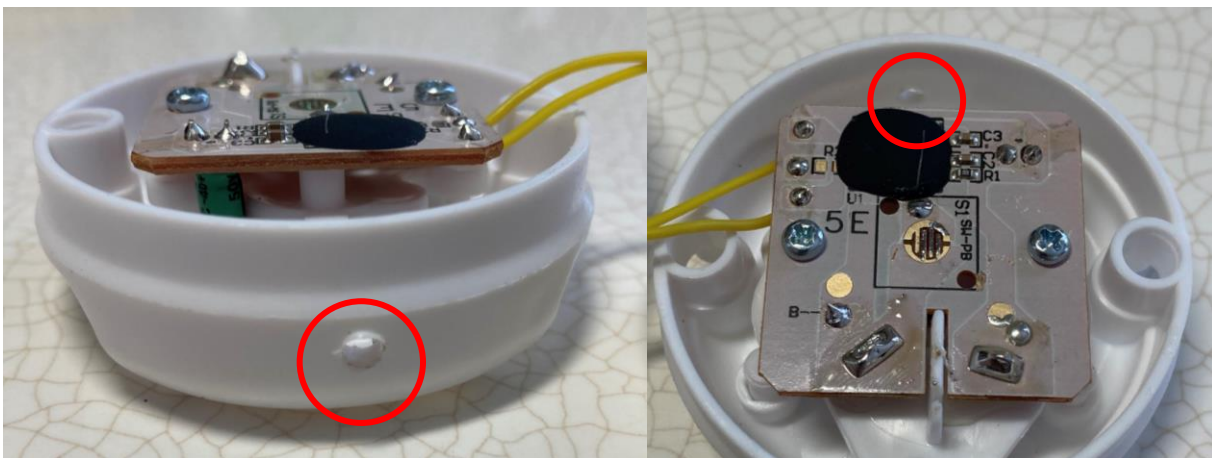
Take the ends of the internal wires, and melt solder onto them.

This can be done by holding the solder iron against the wire and bringing the solder wire to it until it melts and flows onto the wire.



### Step 12

Drill a hole in the location shown using a drill with a 1/8" drill bit.

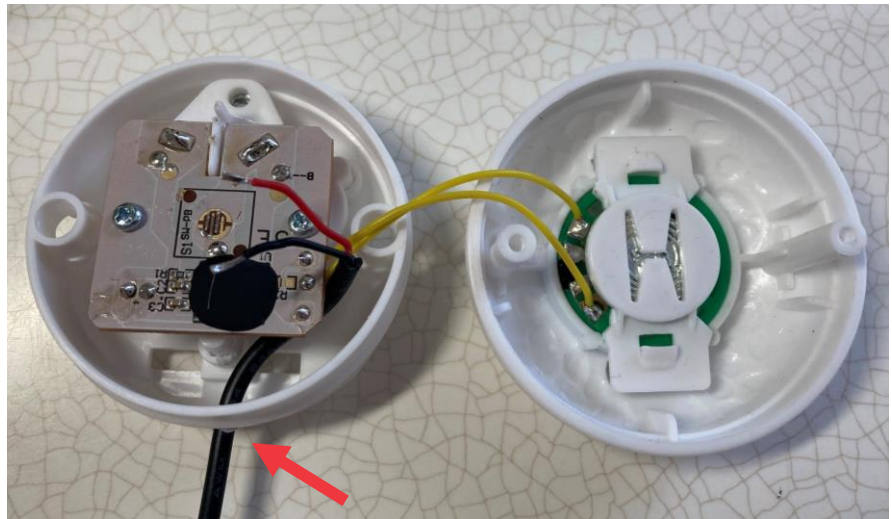




# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 13

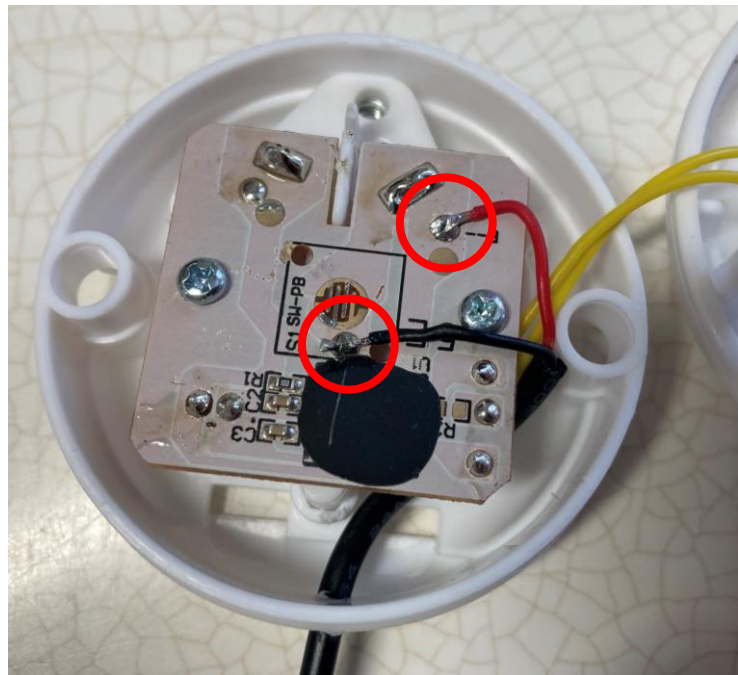
Thread the cable  
through the drilled  
hole.



## Step 14

Solder the two wires in the  
locations shown.

One will be soldered to the solder  
blob you made in step 7.



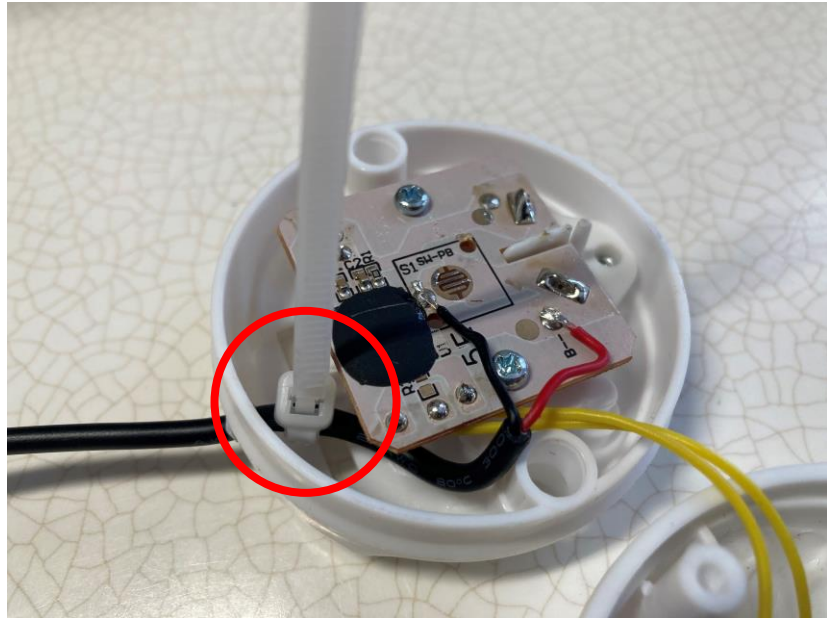


# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 15

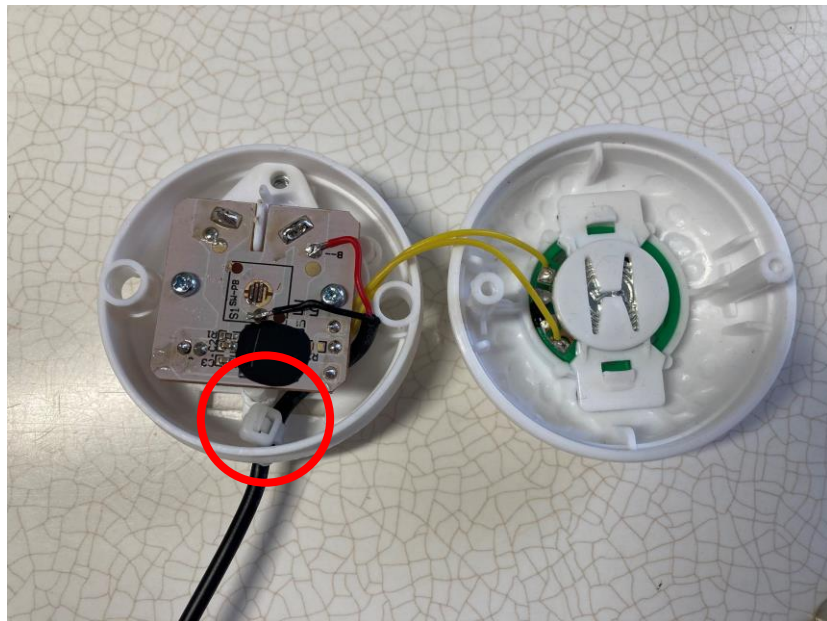
Attach a zip tie to the cable, on the inside of the white case- as close as possible to where it enters.

This zip tie will serve as strain relieve, so that if the cable is pulled it won't break the solder connections.



## Step 16

Cut the excess portion of the zip tie with the flush cutters.



# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 17 – Stop and Test!

Test that your adaptation was successful by replacing the batteries and plugging in an assistive switch.

The assistive switch should replicate the button functions and Peppa should make noises.

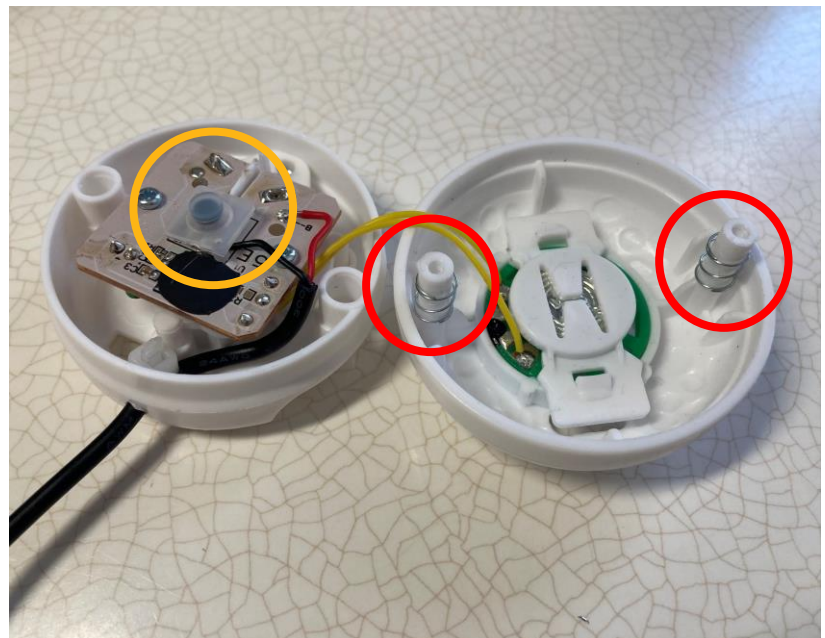
- If Peppa makes no noises when switch is activated, check your connections.
- If Peppa continues to make noises and will not stop, check your connections



## Step 18

If possible, replace the silicone cover over where you soldered, circled in yellow. This is so the original switch still works, but if it does not fit the switch adaption will still work.

Replace the springs back onto the posts, circled in red.



# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 19

Fit the two halves back together and secure with screws, circled in red.



## Step 20

Replace the battery compartment lid and secure with the screw, circled in red.

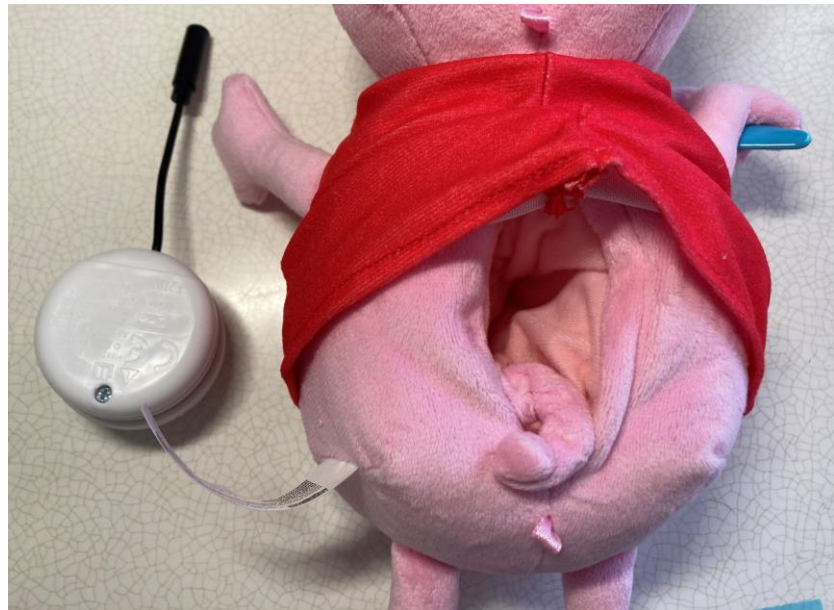




# Switch Adapted Peppa Pig ASSEMBLY GUIDE

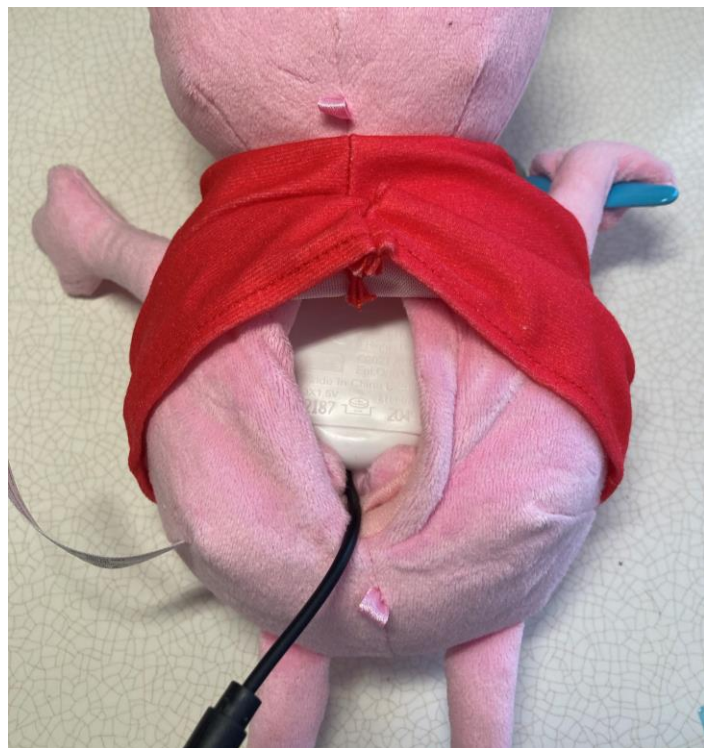
## Step 21

Take the Peppa Pig and turn it over. Lift up the dress and open up the inside compartment as seen here.



## Step 22

Put the white speaker/battery compartment inside this opening, leaving the cable sticking out.

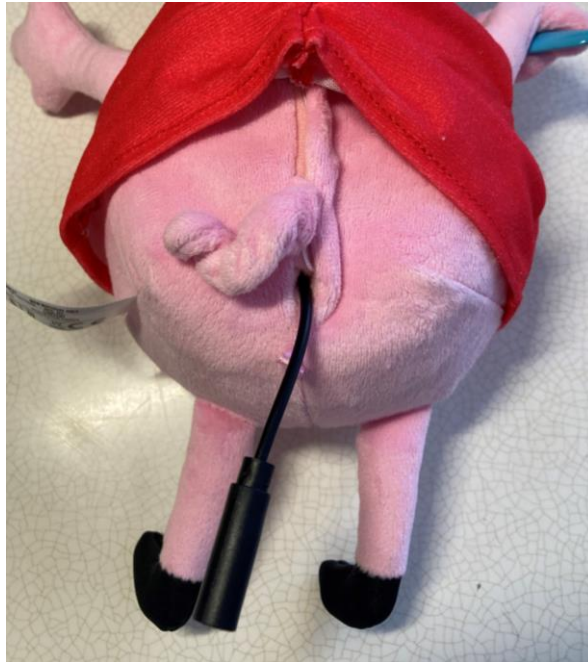




# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 23

Close this back compartment, make sure the tail and the cable with the mono jack are sticking out.



## Step 24

Pull the back of the dress back down, pulling the tail and the cable through the hole on the dress.



# Switch Adapted Peppa Pig ASSEMBLY GUIDE

## Step 25 - Test

**Test again** that your adaptation was successful by plugging in an assistive switch.

The assistive switch should replicate the button functions and Peppa should make noises.

If Peppa does not make noises or does not stop making noises, open the inside compartment again and check the connections.

If the assistive switch works as intended, then you are finished!

