



Overview

This guide shows how to modify a toy water gun to work with an external accessibility switch.



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Files available at https://github.com/davinci73/Design_Sprint_3_Devinn-Cat-Noel/tree/main

Maker Checklist

To-Do List

- Read through the Maker Guide
- Gather all required tools and materials
- Drill hole for jack port
- Solder wires from internal trigger to 3.5mm jack
- Mount jack securely in drilled hole
- Reassemble water gun
- Insert batteries and test both built-in and external triggers

Items to Give to User

- Assembled switch-adapted water gun
- Custom push-button switch (3.5mm plug)
- 2 AA batteries installed or included separately



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Tool List

Tool ID	Description	Required / Recommended	Notes
T01	Soldering iron	Required	For attaching wires to 3.5mm jack
T02	Wire strippers	Required	To strip wire ends for soldering
T03	Drill + small drill bit	Required	For creating jack port in gun casing
T04	Small Phillips screwdriver	Required	To open and close the water gun casing

Supplies List

Supplies ID	Description	Quantity	Notes
S01	Solder	NA	Used with soldering iron
S02	3.5mm jack (pre-wired)	1	External switch connection
S03	Push-button switch	1	External activation switch
S04	AA batteries	2	Powers the water gun



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Assembly Guide

Required Components

- Electric shark water gun
- Push button (normally open)
- 3.5mm jack with exposed wire ends
- 2 AA batteries

Required Tools and Supplies

- Soldering iron and solder
- Wire strippers
- Drill with small drill bit
- Small Phillips screwdriver

Assembly Steps

Step 1 – Open the water gun

Remove all factory screws. Carefully separate the two halves of the shell.



Step 2 – Drill the jack port

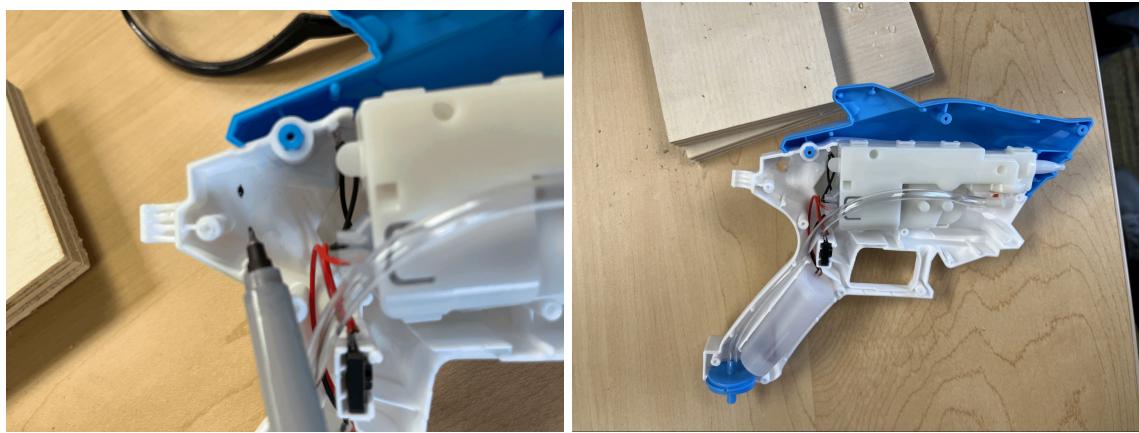
Drill a small hole on the side of the water gun shell, just behind the trigger.



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Step 3 – Solder the wires

Find the internal trigger switch. Solder two wires from its terminals to the 3.5mm jack in parallel so both the factory trigger and external switch can activate the gun.

Step 4 – Mount the jack

Insert the jack into the drilled hole and secure it firmly.



Step 5 – Reassemble the water gun

Close the shell and replace all screws.



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Final Setup

Insert two AA batteries into the handle. Plug the push button into the jack. Now the user should test both the factory trigger and the external button.



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