

Switch Adapted Nerf Gun

SUMMARY

Title

Switch Adapted Nerf Gun

Subtitle

A Nerf Hyperfire Elite gun that has been adapted for use with a 3.5mm mono switch

Device Details

Overview

The Switch Adapted Nerf Gun is designed to be a switch adapted toy for an older audience. The majority of switch adapted toys are designed for a younger audience, so this project aims to adapt a toy aimed at older users and make it switch accessible.

Usage

To set up the Nerf gun on a flat surface, take the Desk stand and slide it onto the top attachment rail. This will allow the gun to stand by itself upside down.

To set up the Nerf gun on a ¼-20 bolt system, take the bolt stand and attach it to the section of the gun above the trigger as seen in the assembly guide. This will allow the gun to be attached to any ¼-20 mount system.

To use the gun, a 3.5mm switch can be plugged into the jack, and a secondary user can flick the toggle switch to activate the flywheel motors. Once the motors are spinning, the switch can be pressed and held to activate the feed motor for as long as the button is held.

Cost

~\$95 total

~\$75 toy

~\$20 dollars batteries and adaptation

Build Instructions

The build involves opening the nerf gun to modify two switches that will allow the gun to be fired with a 3.5mm mono switch.

Skills Required

- Soldering
- 3D printing

Time Required

3D Printing:



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8h38min

Assembly:

1h30min

Tools

Soldering Iron

Screwdriver

Wire Strippers

Drill with 1/4inch drill bit

Components

- Nerf Hyperfire Elite
- D-Cell Batteries
- ¼ -20 T-Slot Nut
- ¼-20 Bolts

3D Printing

- Desk Stand
- Bolt Stand

Attribution

- Switch adaptation design by [Nicholas Stallings](#)
- Mounting options design by Neil Squire Society/Makers Making Change
- Documentation by Neil Squire Society/Makers Making Change