

Switch Adapted Remote Controlled Car

SUMMARY

Title

Switch Adapted Remote Controlled Car

Subtitle

A colourful cartoon remote controlled car with a switch adapted remote.

Device Specifications

Build Time: < 1 hour

Cost: \$26 - 50

Skills: Soldering

Need: Agility / Dexterity

Disability: Mobility / Physical

Difficulty: Intermediate

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Usages: Recreation and Leisure

Type: Adapted Toy

Designer: Josie Versloot - Makers Making Change

Device Details

Overview

This colourful cartoon remote controlled car has been switch adapted so it can be controlled with two 3.5 mm assistive switches. This adaptation is intended for users that have difficulty activating the small buttons on the remote.

Usage

To use, plug in two assistive switches to the two mono jacks on the back of the remote. When the assistive switch is activated, it will act like the buttons on the remote. The left mono jack (when looking from the front) will act like the left button and will move the car forwards. The right mono jack (when looking from the front) will act like the right button and will move the car backwards and turn.

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Cost

The total cost of this switch adapted remote-controlled car is around \$30.35 CAD plus tax. A more detailed breakdown is in the Bill of Materials.

Build Instructions

The necessary files and information required to switch adapt the toy switch are available in the linked GitHub repository. The build consists of a commercially available toy and some electronic components. Refer to the file RC_Car_Assembly_Guide.

Skills Required

- **Soldering**

Time Required

Assembly: ~1 hour

Tools

- **Drill with ¼" bit**
- **Small flat head or Phillips screwdriver**
- **Flush cutters**
- **Wire strippers**
- **Soldering iron and solder**
- **Permanent marker**

Components

- **1x [RC Car](#)**
- **2x [3.5 mm mono jack](#)**
- **2x [10 nF ceramic capacitors](#)**
- **5x AA batteries**
- **Wire**

Refer to the Bill of Materials for more information.

Attribution

Toy adaption by Josie Versloot – Makers Making Change

Documentation by Neil Squire / Makers Making Change