



## Lever n°4 for Virpil Joystick Grips



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### Summary

fits around the neck of a joystick grip made by Virpil

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With the DCS module Mi-24 being released, I wanted the matching joystick. I added the missing brake lever to the WarBRD joystick.

### Materials:

- M3x 10mm bolt + nut.
- M3x 16mm bolt + nut.
- an optional compression spring (5mm in diameter, 20mm in length and 0.8mm wire diameter).
- a rotary potentiometer.
- 5-pin JST PH male connector (plugged into the Virpil base).

## Electronics:

Plug the potentiometer wires either:

- on an Arduino Leonardo/Pro Micro, get the joystick library and follow the examples in [Arduino tutorial chapter 3](#).
- on a Leo Bodnar BU0836,
- on the Virpil base board:
  - Check first if your circuit board looks like mine on the picture.
  - On the joystick's base, look at the bigger circuit board. Look for the 2x 4-pin connectors (1 on each side, each one for a hall effect sensor) There are 2 free pins next to them. That's where the signal from the potentiometer goes. Take the + and the ground from the free "AUX" 5-pin connector. Check the picture for more details.
  - When the wiring is done and the grip is connected, open the VPC Configuration Tool, define 2 new axis (double click on a free axis) and calibrate them. That's it. Just take your time, it's easy.

→ [Extension with a hole](#) for the wires.

## This remix is based on



**Lever n°1 for Virpil/Thrustmaster Joystick Grips**

by Joker\_G

## Model files

joker\_g\_lever4.3mf



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joker\_g\_lever4\_bracket.stl





joker\_g\_lever4\_neck.stl



joker\_g\_lever\_80mm.stl

[Find source .stl files on Thingiverse.com](#)

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