ÖTX Controller – DIY Cable Guide

For who is this guide?

The ÖTX Controller by default comes with cables that are made for any Öhlins suspension part that is equipped with white JWPF connectors as shown to the right.

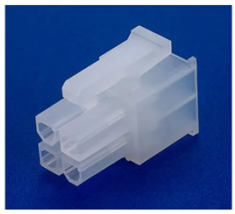
However there are suspension available that do not have these white JWPF connectors. Nonetheless the suspension motors are exactly the same and cables can be fabricated for the ÖTX Controller to also work with these suspension parts.

This guide shows you how to validate the pin out of your suspension parts to create your own custom cables for the ÖTX Controller to be able to adjust your suspension.

What do you need?

- Multimeter
- Wire stripper

- **When you want to replace the original connectors on your suspension part with white JWPF connectors to use the original ÖTX Controller cables**
    - 2x JST 04T-JWPF-VSLE-S, 4 pin male connector
    - IWS-3220 crimp tool (or something similar)



- **When you want to use the original connectors on your suspension part**
    - 2x Molex 5557 series, 4 pin female connector
    - X length of 24 AWG / 0.25mm2, 4 core wire
        - Choose your own desired length
    - SN-58B crimp tool (or something similar)
    - 2x connector type that is currently mounted on your suspension part. If a male connector is now attached, order the female variant.

Step 1 — Prepare the Multimeter

- Make sure the motor is not connected to any driver or circuit.
- Turn your multimeter to the resistance (Ω) range.
- Expect readings between 1 Ω and 100 Ω, depending on motor size.
- If your meter has a continuity beep mode, that works too.

Step 2 — Identify the Two Coil Pairs

Pick any two wires and measure the resistance between them.

If you read a finite resistance (for example, 2.8 Ω), these belong to the same coil.

If the meter shows OL, 0 or open circuit, they are not connected.

Continue testing combinations until you find two pairs of wires that each show continuity.

✅ Example:

Measurement	Reading	Result
Red ↔ Blue	2.8 Ω	Coil A
Green ↔ Black	2.8 Ω	Coil B
Red ↔ Green	OL	Not the same coil
Blue ↔ Black	OL	Not the same coil

You now have:
Coil A: Red & Blue
Coil B: Green & Black

Step 3 — Label and Record

Once you know which wires form each coil:

Label them (for example):

A= Red

A = Blue

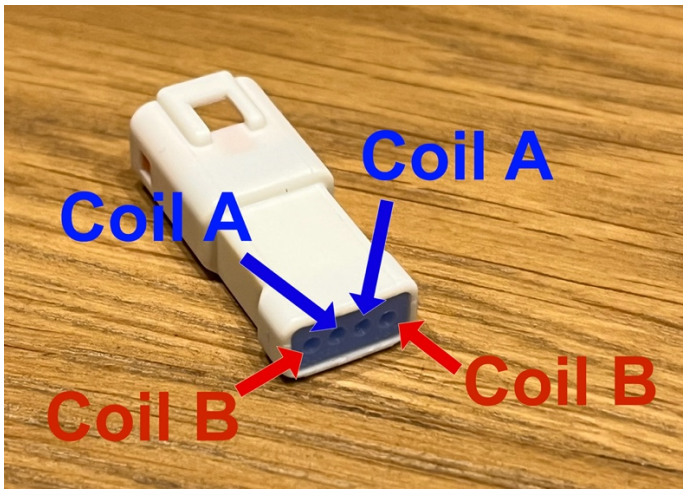
B = Green

B = Black

Write it down or tag the wires for easy reference later.

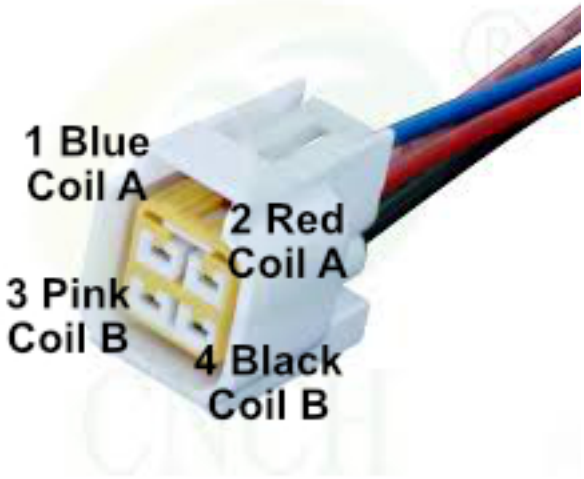
Step 4.A — When you want to replace the original connectors on your suspension part with white JWPF connectors to use the original ÖTX Controller cables

1. Cut off the original connector of your suspension part
2. Strip back the wires using a wire stripper
3. Now crimp on the new JST 04T-JWPF-VSLE-S, 4 pin male connector
    a. Use the pinout as shown down below in reference with the validated and labeled wires from step 2 and 3.

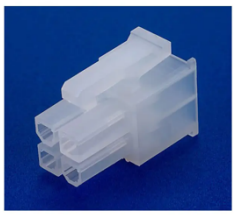
i. 

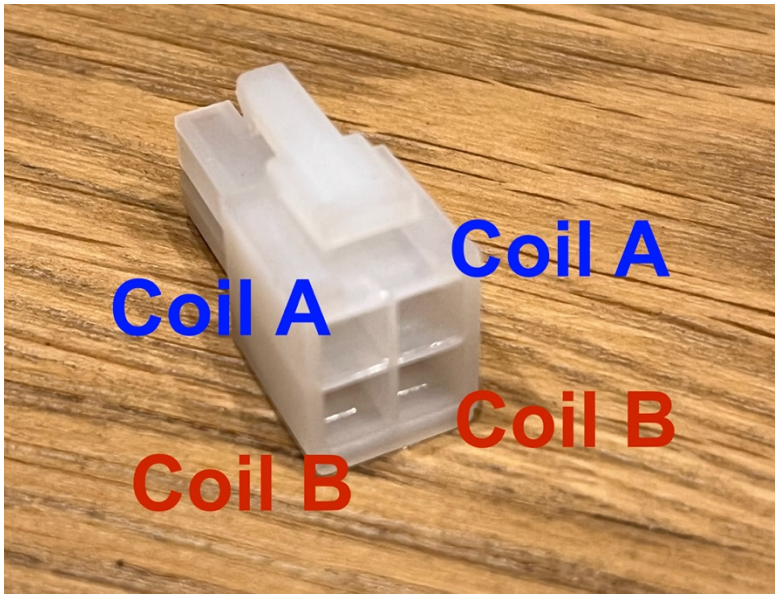
Step 4.B — When you want to use the original connectors on your suspension part

1. Grab the 4 core 24 AWG / 0.25mm2 cable and cut it to the desired length
2. Strip back the mantle both sides of the wire exposing the inners 4 cores
3. Strip back each core wire using a wire stripper
4. On 1 end of the cable now crimp on the opposite gender (male <> female) of the original connector that match the connector on your suspension part
    a. Write down which color cable is connected to which pin.
        i. For example :



5. On the other end of the cable now crimp on the new Molex 5557 series, 4 pin female connector
    a. Use the pinout as shown down below in reference with the validated and labeled wires from step 2, 3 and 4.B.4.



    i. 

Step 5 — Connect the ÖTX Controller

Now connect your suspension part with new connectors OR newly fabricated cables to the ÖTX Controller. When connected and powered up follow the same steps as described in the Quick Start Guide to adjust your suspension.

Want to know for sure your suspension motors are actually adjusting? Put your ear to the suspension part when it is being adjusted. Your should hear a faint buzzing noise when the motors are adjusting the internal valve needles. OR simply adjust the suspension to the 1 click position, feel how the suspension reacts when pressing/loading the motorcycle and after that adjust it to the 99 click position. You should feel a change is response/resistance on the suspension.

If you do not hear any sound or feel any chance please recheck and follow steps 1 to 4 to make sure everything is connected as it should be.