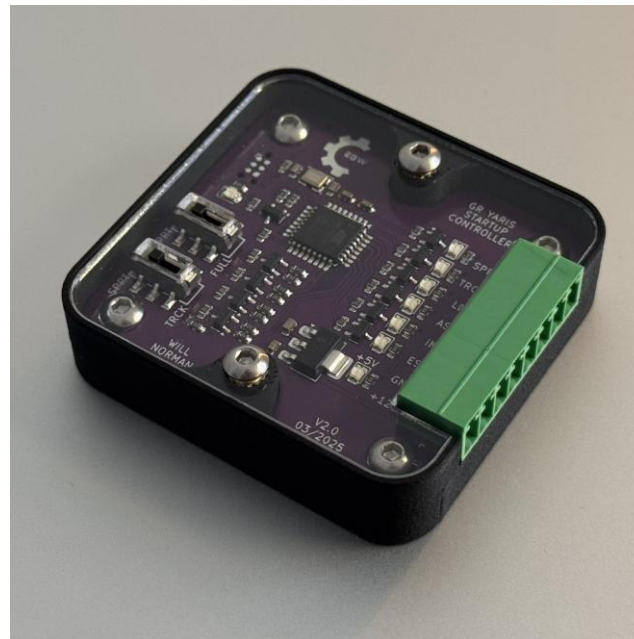


# GR Yaris Startup Controller V2.0

## Overview & Installation Guide

I TAKE NO RESPONSIBILITY FOR ANY DAMAGE CAUSED DURING THE  
INSTALLATION OR OPERATION OF THE DEVICE.

**INSTALL AT YOUR OWN RISK**



WILLN on GR-Yaris.co.uk  
[will.norman@sky.com](mailto:will.norman@sky.com)  
[GitHub project files](#)

## 2. Overview - Operation

**Every time the car ignition powers on, the “*GR Yaris Startup Controller*” turns on and automatically:**

- Switches off the lane departure alert
- Switches off auto stop/start
- Switches on iMT
- Selects the driving mode (sport/track)
- Turns ESC to expert mode or fully off

It does this by mimicking button presses electronically (no CAN bus sophistication, just button presses).

Original button press functionality remains unaffected.

[Link to forum post where idea initially shared by MagnusT](#)

If you don't want all the buttons pressed, wire only the ones you desire and leave the rest unpopulated.

If you don't feel comfortable splicing into the factory wiring (like me), you can buy short extension harnesses that can be spliced into. See links on subsequent slides for where to purchase these extensions.

# 3. Overview - Design

## ESC Select Switch

Expert mode (XPRT) – short button press  
ESC fully off (FULL) – long button press

## Drive Mode Select Switch

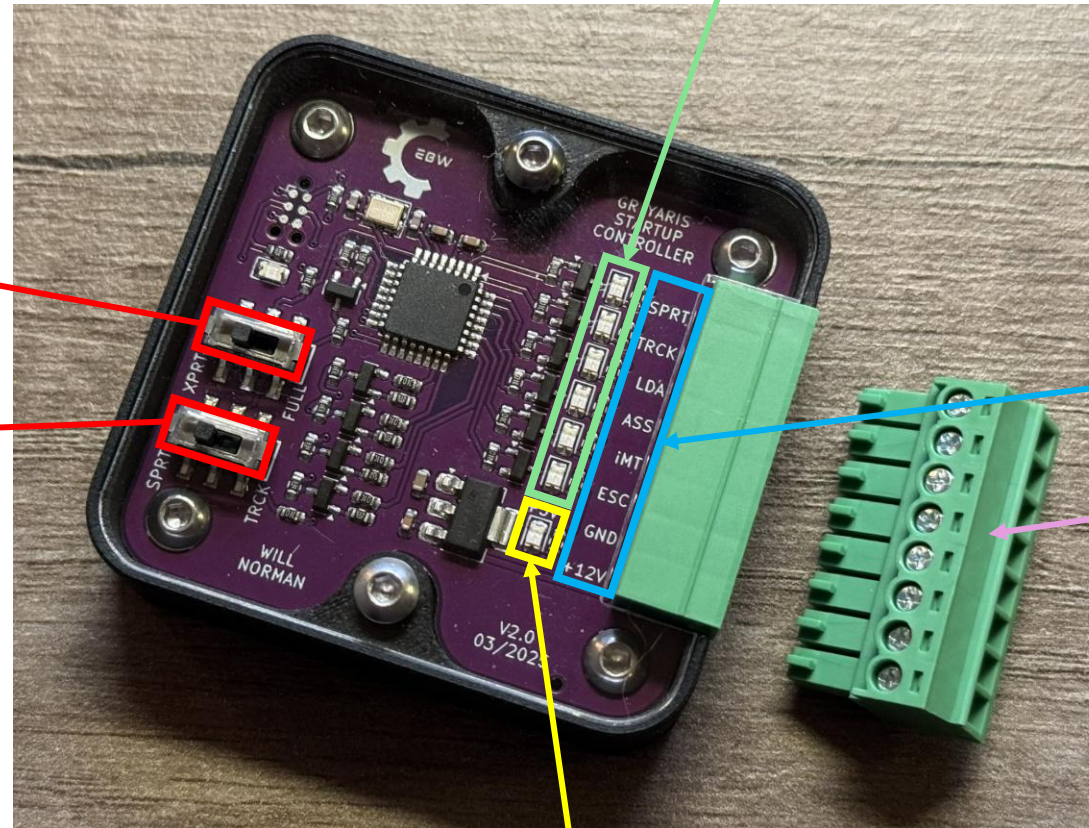
Sport (SPRT)  
Track (TRCK)

Indicator LEDs

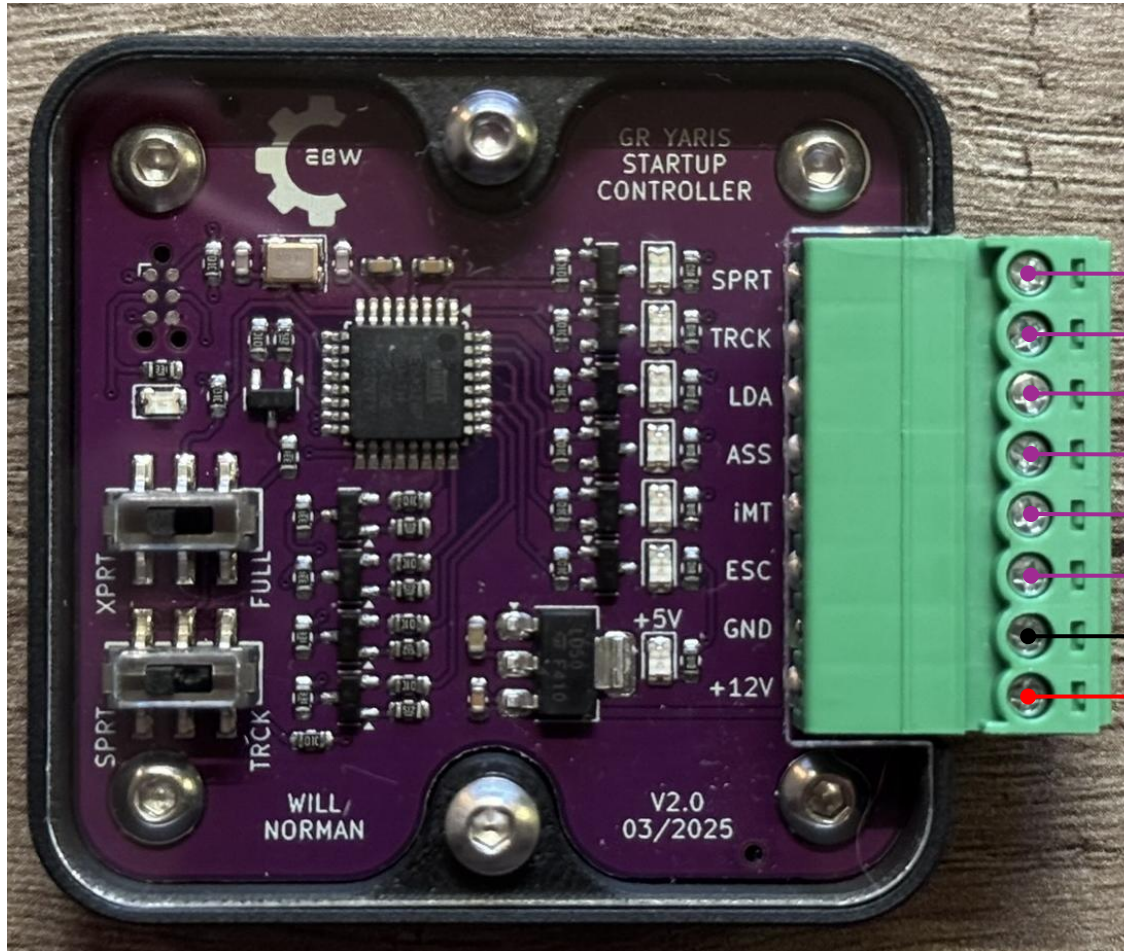
Pinout Text

Pluggable Screw Terminal

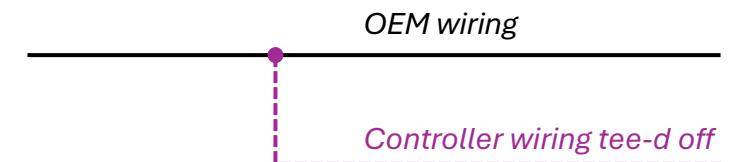
Power Indicator LED



# 4. Controller Wiring



- 8. SPRT - Sport Mode (page 8)
- 7. TRCK - Track Mode (page 8)
- 6. LDA - Lane Departure Alert (page 6)
- 5. ASS - Auto Stop/Start (page 7)
- 4. iMT (page 7)
- 3. ESC – Stability/Traction Control (page 7)
- 2. GND (page 5)
- 1. +12V (page 5)



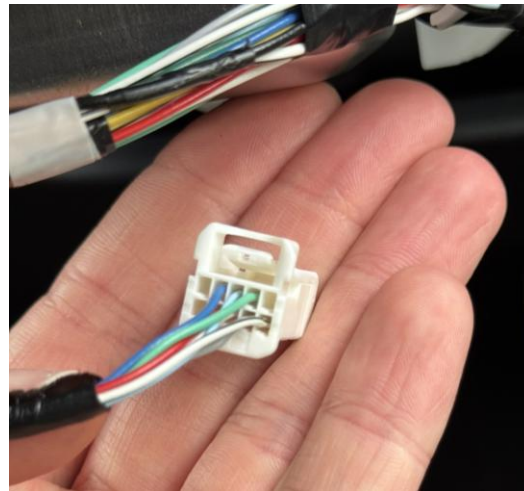
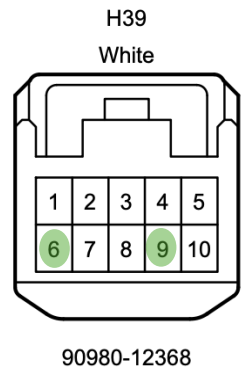


# 5. Ignition Power + Ground

*The wiring for +12V & GND is found under the steering wheel cowling on the 10-pin plug.  
The cowling is removed by undoing 3x screws (rotate the steering wheel to reveal 2 hidden screws)*

**Pin number 9 (Red) = +12V**


**Pin number 6 (White & black stripe) = GND**



If you don't want to splice into the factory wiring, short extension harnesses can be purchased here that you can modify:

[10-pin extension harness](#)

[Another option that should work](#)



**Retail** Wholesale [Bulk savings](#)




**£ 2.26**

~ £0.45 estimated tax ⓘ · Extra 5% off with coins

Original automobile 90980-12368 12367 male and female extension cord adapter harness

★★★★★ 5.0 2 Reviews | 12 sold

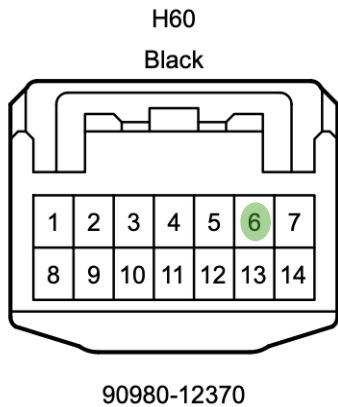
Color: 90980-12368 wire



# 6. Lane Departure Alert

*The wiring for LDA is also found under the steering wheel cowling, but on the 14-pin connector*

Pin number 6 (White) = Lane Departure Alert (LDA)



If you don't want to splice into the factory wiring, short extension harnesses can be purchased here that you can modify:

[14-pin extension harness](#)



Retail Wholesale **Bulk savings**

**£5.69**

+£1.14 estimated tax ⓘ , Extra 5% off with coins

♥ £2.00 off orders over £19.00

Original 90980-12369 12370 automobile male and female 15cm harness connector plug

12 sold

Color: Male and female wire



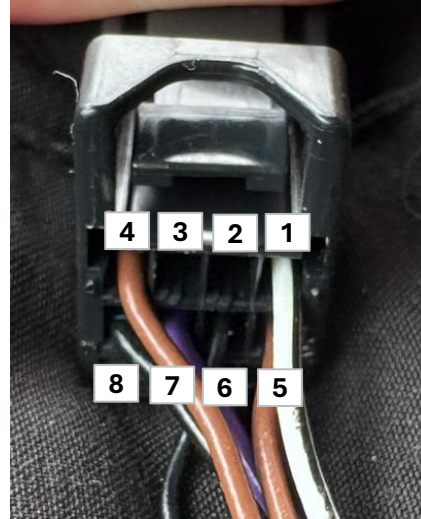
# 7. iMT, ESC, Auto Stop/Start

*The wiring loom needed for iMT, ESC, and Auto Stop/Start is found under the centre console (plugged into the iMT/ESC/Auto stop start button)*

Pin number 8 (Black) = **iMT**

Pin number 7 (**Purple**) = **Stability/Traction Control (ESC)**

Pin number 6 (Black) = **Auto stop/start (ASS)**



This 8-pin connector is:

Plug: Tokai Rika 4A1330-000 (Toyota 90980-12910)

Socket: Tokai Rika 4B1160-000

## 8. Sport / Track Mode

*The wiring loom needed for Sport/Track mode select is found under the centre console (plugged into the drive mode rotary button)*

**Pin number 4 (Green) = Sport (SPRT)**

**Pin number 6 (Red) = Track (TRCK)**

(Note pins 1 and 8 are unpopulated in the plug but still counted here)

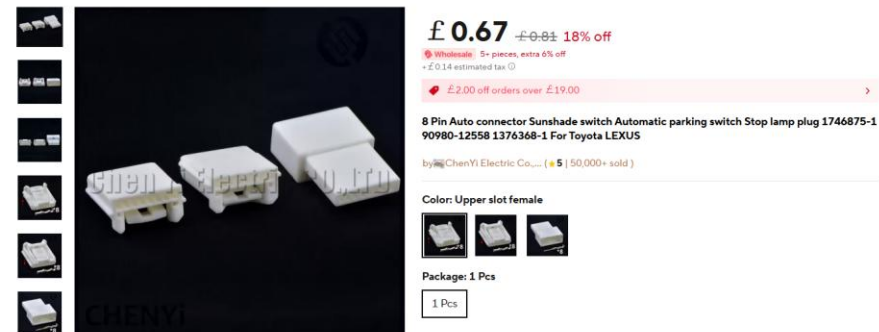
You can wire both sport and track into the controller and use the slide switch on the PCB to choose between them. The slide switch must be in the appropriate position if you decide to wire only Sport or Track.



If you don't want to splice into the factory wiring, a short extension harness can be made up using these connectors:

[8-pin plug + socket + crimp pins](#)

(choose the “Upper slot female” version)





# 9. Helpful Links

[Demo video](#)

[Project files and information on GitHub](#)

[Link to forum post where idea initially discussed by MagnusT](#)

[How to pull apart the centre console](#)

[22 AWG wire](#)



I've chosen to wire mine to the rear of the centre console  
(for easy access during development)

# 10. Extension Harnesses

- 1) Power & Ground
  - A. [10-pin extension harness](#)
  - B. [Another 10-pin option that should work](#)
- 2) [Lane Departure Alert: 14-pin extension harness](#)
- 3) [Sport/Track Mode: 8-pin plug + socket + crimp pins](#) (upper slot female version)

