Quick Start Guide [Issue 2]

Renesas European MCU Car Rally (MCR) Challenge

Congratulations on enrolling with the Renesas European MCU Car Rally (MCR) Challenge – you may not know this but you're now part of the largest global, line trace-type robot competition!

This document briefly describes what's in the box, where to find useful resources & an overview of the available guides.
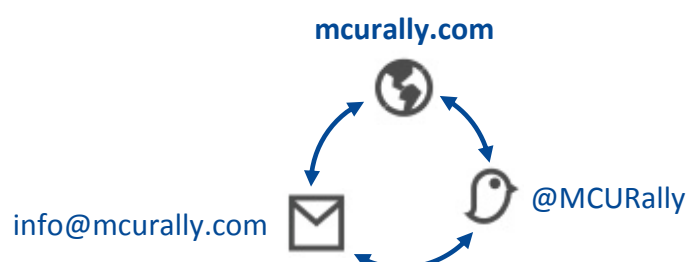
What's in the box

Eager to get going? In the kit you should find the following:

Motor board bag · Miscellaneous · Sports tire sets · High-speed gearbox sets

Sensor board bag · 10 pin connecter socket bag · Universal plate set · Servo motor set · Motor bag

If any of the items above are missing from the kit please contact AND Technology Research (ANDtr) info@mcurally.com

Resources

A host of information, guides & software tools are available to support you in building your car, testing it & optimising performance.

mcurally.com

info@mcurally.com

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Documentation overview

To guide you through the process of assembling your car, a range of instructions are available to download from the mcurally.com website, these include:

Sensor Board Assembly Manual
Instruction guide for populating the Sensor printed circuit board (PCB)

Motor Drive Board Assembly Manual
Instruction guide for populating the Motor Drive printed circuit board (PCB)

Body Assembly Manual
Overall kit assembly guide for; constructing the car chassis, wheels, drive shafts, servo motor, gearbox & mounting the Sensor & Motor Drive PCBs.

Operation Test Manual
Instruction guide to programing up your freshly built car with test software.

Program Explanation Manual
This documents provides an overview to how the kit's hardware/software interact in addition to providing detail on the software logic & hints on how to modify this to squeeze the most performance out of your car.