

Track Test Assignment



Things to remember for the day

- Bring food and drink .
- Bring pre-prepared spreadsheets, laptops etc to record results
- Bring a camera to record activity, setups etc.
- As the groups are split you have just 1.5 hrs at the circuit to undertake your test
- Make sure you have USB drives to collect data from the data laptop so that analysis can be undertaken as testing proceeds

The weather will be changeable !



Dress for cold and wet conditions whatever the forecast – (you may then be pleasantly surprised!)

Timetable for minibus leaving Mount Pleasant

Thursday 8th November 2012

Group 1 in the afternoon. Minibus leaving at **12.00**

Thursday 15th November 2012

Group 2 in the morning Minibus leaving at **9.00**

Group 3 in the afternoon. Minibus leaving at **12.00**

Before the test

Sort out the data collection laptop to download data into a suitable subfolder

Check and record the relevant setup details of the car – tyre pressures, ride heights, corner weights etc. for pushrod calibration

Have laptops with Excel spreadsheet and Pi Toolbox available



Organisation at the circuit

- There will be 12 students in each group
- Each group will be divided into 2 teams
- The first team will run with the car having no anti roll bar at the front or rear.
- The second team will have the car with rear anti-roll bar fitted at one of three settings, the measured wheel rate will be given.

Test Procedure (1)

The car will run on the steering pad for your test

Each outing will consist of number of laps at increasing speed.

You will be able to select a number of steady state periods from each speed to ensure that your data is as reliable as possible.

Test Procedure (2)

Remember to arrange for a lap to be run at very slow speed to determine ackerman steering

If using the Speedbox RTK data for vehicle slip angle remember it resets as the car passes though due North.

Between and after runs

Undertake your test procedure , measuring post -test pressures and temps and download data on track

Where possible produce graphs etc. and use your load distribution spreadsheet as the test progresses to ensure errors are highlighted at the time.



Before the test

Make sure you can:

- Use the data laptop to setup download path and create relevant maths channels on your own laptops
- Have changes clearly understood and timed with team members having clear roles throughout your test period— everyone should have something to do all the time!