

# Criteria for CH-DY base inertia errors

## ◆ WLTP ... Annex 5: 2.2.6

2.2.6. The base inertia of the dynamometer shall be stated by the dynamometer manufacturer and **shall be confirmed to within  $\pm 0.5$  per cent** for each measured base inertia and  $\pm 0.2$  per cent relative to any arithmetic average value by dynamic derivation from trials at constant acceleration, deceleration and force.

During discussion in WLTP/DTP, 40 CFR Part 1066 was not finalized yet. Therefore, the values from text in 2011 were used in GTR15. However, the value in CFR were changed to 1.0% from 0.5%. This changes were made to harmonies with other regulations and also because CH-DY manufacturers could not comply with this value.

## ◆ CFR part 1066 ... § 1066.250 (d)

(d) Performance evaluation. The dynamometer must meet the following specifications to be used for testing under this part:

**(1) All base inertia errors determined under paragraph (c)(6) of this section may not exceed  $\pm 1.0\%$ .**

(2) The inertia error for the final base inertia mean value determined under paragraph (c)(8) of this section may not exceed  $\pm 0.20\%$ .

## <Proposal>

Base inertia errors may not exceed  $\pm 1.0\%$ .

Base inertia [kg]	$\pm 0.5\%$ base inertia error [kg]	$\pm 1.0\%$ base inertia error [kg]
600	$\pm 3$	$\pm 6$
1200	$\pm 6$	$\pm 12$
1800	$\pm 9$	$\pm 18$

