

# BioRID vs. HIII

## *Revised Buck*

GTR7-07-05

*Rear Impact  
Sled Testing*

- Develop new “side-by-side” buck
  - 2011 Chevy Cruze driver seats
    - Rated “Good” in ENCAP and IIHS rear impact assessments
  - Devise backset adjustability to produce “Good” and “Poor”



“Good”  
44 mm backset



“Poor”  
82 mm backset

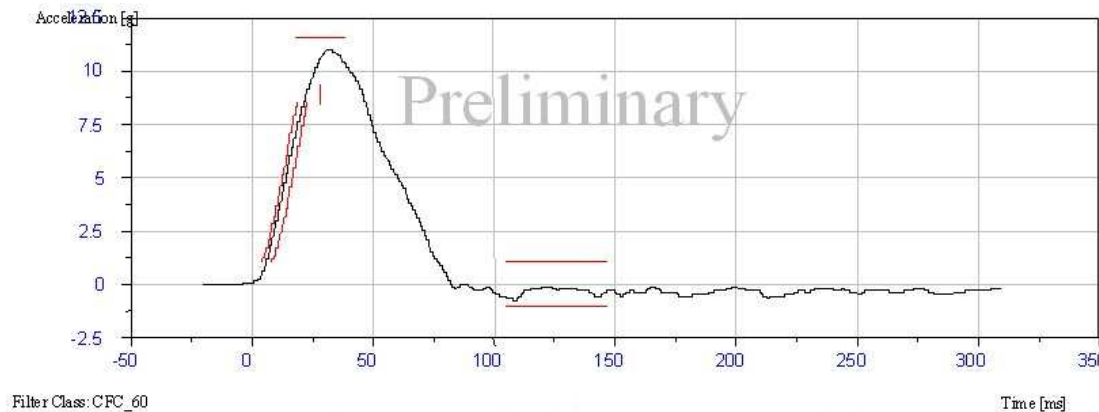
# FMVSS 202a vs. Annex 9 Pulse

## Modified Annex 9 Pulse

Rear Impact  
Sled Testing

Fabricate new HYG E gun metering pin

- Designed specifically for new buck
- Goal to replicate modified (Japanese proposal) A9 corridors
- Actual ballasted pulse trial results



- Max Accel = 11.0g    Max Vel = 16.4 kph    Duration = 82 m/s

# Revised test Plan

## Rear Impact Sled Testing

- Proposed Matrix – eight tests (two repeats of each condition)

Test No	Pulse	Backset	Hill	BioRID
1	202a	44	Right	Left
2	↓	82	↓	↓
3		44		
4	82			
5	Modified A9	44		
6	↓	82	↓	↓
7		44		
8	82			

- Responses to evaluate:

Head -T1	HIC	Time to contact	NKM	NIC	T1ZG
T1XG	HDXG	Head rebound V	Upper Neck FX	Upper Neck FZ	