

# Crash Test Results

## New Car Safety

### PROTON JUMBUCK

2003 on

No airbags



Offset crash test at 64km/h

#### FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck zero pts, chest 2 pts, upper legs zero pts, lower legs zero pts.

The passenger compartment was severely deformed in the offset crash test. The brake pedal moved rearwards by 349 mm and downwards 9mm. The steering wheel hub moved 206 mm rearward, 66 mm upward and 45 mm sideways. The front ("A") pillar moved 312 mm rearwards. The driver's door lost structural integrity during the crash, exposing the driver to extra risk during secondary impacts. After the crash the driver's door could be opened with high manual effort. The driver dummy legs had to be dismantled for extrication as they were trapped by the vehicle deformation.

The driver's head struck the steering wheel and top of the instrument panel and injury measurements indicated a high risk of serious head injury. Steering column and dash components were a potential source of injury for the driver's knees. There was no sign of a passenger head contact.


#### SIDE IMPACT CRASH TEST (v4.2)

Body region scores out of 4 points each: Head 4 pts, chest zero pts, abdomen 0.11 pts, pelvis 3.28 pts.

Injury measurements indicated a high risk of serious chest injury. Abdomen protection was weak.

#### PEDESTRIAN PROTECTION: 2 Stars

Default points were awarded for the windscreen and upper leg area. Most tested points were poor.

| PEDESTRIAN PROTECTION   |                    |      |
|---|--------------------|------|
| <br>v4.1 | Child head impacts | 2    |
|   | Adult head impacts | 5    |
|   | Upper leg impacts  | 4    |
|   | Lower leg impacts  | Zero |
|   | Total (out of 36)  | 11   |



Child and adult head impact



Adult leg impact (upper and full legforms)

pass marginal fail

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PO Box 4041

Manuka ACT 2603

jumbuck09.doc

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**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

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Occupant Protection Score 8.39\* out of 37

\* High risk of life-threatening head injury in offset test and chest injury in side impact test

Variant: GLi

Eng: 1.5

Kerb weight: 1050 kg

Category: UTILITY

Vehicles built: 2009

#### Model History and Safety Features

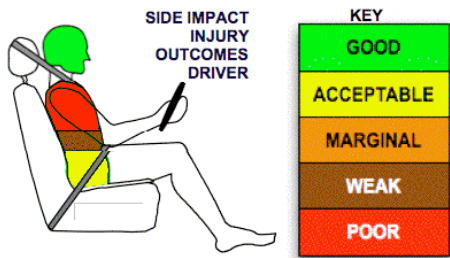
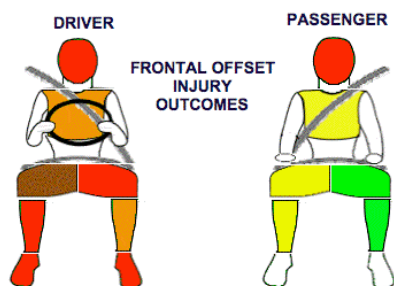
The tested model of Proton Jumbuck was introduced in Australia during 2003. Proton Cars Australia has advised ANCAP that this model is being discontinued.

The Jumbuck has minimal safety features (see table on next page). There are no top tether anchorages for child restraints so this vehicle is unsuitable for transporting young children.

#### OCCUPANT PROTECTION: 1 Stars

The Jumbuck scored 1 out of 16 in the offset crash test. The passenger compartment was severely deformed. Protection from head injury was poor for the driver and passenger. Driver leg protection was also poor.

The vehicle scored 7.39 out of 16 in the side impact crash test. There was a high risk of life-threatening chest injury for the driver.



# TECHNICAL DATA - PROTON JUMBUCK - 2003 on

## INJURY MEASUREMENTS

| Body region                    | Offset Crash Test at 64km/h<br>(v4.1) |            | Side Impact Crash<br>Test at 50km/h<br>(v4.1) |
|--------------------------------|---------------------------------------|------------|---|
|                                | Driver                                | Passenger  | Driver  |
| <b>Head HIC</b>                | 1,364                                 | 834        | 314   |
| Acceleration (g for 3ms)       | 120.9                                 | 111.4      | 58.5  |
| <b>Neck - Shear (kN)</b>       | 0.74                                  | 0.73       | -   |
| Tension (kN)                   | 1.74                                  | 1.90       | -   |
| Extension (Nm)                 | 43.0                                  | 13.7       | -   |
| <b>Chest Accln (g for 3ms)</b> | 55.300                                | 35.300     | -   |
| Compression (mm)               | 21.60                                 | 27.60      | 44.70   |
| Viscous criterion (m/s)        | 0.22                                  | 0.12       | 0.62  |
| <b>Abdomen - Force (kN)</b>    | -                                     | -          | 2.460   |
| <b>Pelvis - Force (kN)</b>     | -                                     | -          | 3.540   |
| <b>Upper legs Force (kN)</b>   | Left                                  | 10.86      | 0.38  |
|                                | Right                                 | 5.47       | 1.70  |
| Knee displ (mm)                | Left                                  | 13.05      | 0.39  |
|                                | Right                                 | 5.89       | 7.07  |
| <b>Lower legs Force (kN)</b>   | Left                                  | 2.83       | 0.17  |
|                                | Right                                 | 4.55       | 1.03  |
| Index (Upper/Low)              | Left                                  | 0.79 /0.98 | 0.22 /0.17                                    |
|                                | Right                                 | 1.71 /0.59 | 0.42/0.34                                     |

### Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: None

### Modifiers - deductions from offset test scores

Head Steering column displacement 1 pt deduction  
 Chest A-pillar displacement & loss of structure 2 pt deduction  
 Upper leg Variable & conc. loading 2 pt deduction Left & Right  
 Lower leg No deduction  
 Foot score Pedal displac. & footwell rupture Score zero points  
 Overall offset score: Door lost structural integrity 1 pt deduction  
 Note: Steering column and pedal movements are measured relative to the driver's seat.

### Modifiers - deductions from side impact test scores

Chest Backplate & T12 loads 2 pt deduction

### Safety features

These specifications are subject to change. Please check with manufacturer for the latest specifications.

|   |     |  |       |
|---|-----|--|-------|
| Driver airbag                                 | X   | Antilock (ABS) brakes / Electronic brake distribution / Brake Assist | X/X/X |
| Passenger front airbag                        | X   | Electronic stability control (ESC, VSC, DSC, ESP, VSA)               | X#    |
| Side airbags, front seats - chest protection  | X   | 3 point centre rear seat belt  | -     |
| Side airbags, front seats - head protection   | X   | Active head restraints - front seats                                 | X     |
| Side airbags, rear seats - head protection    |     | Intelligent seat belt reminder - driver                              | X     |
| Driver knee airbag                            | X   | Intelligent seat belt reminder - front passenger                     | X     |
| Seat belt pretensioners (Front/rear outboard) | X/- | Rear seat belt status indicator                                      | X     |

Key:

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V= not available on base variant but standard or optional on higher variants

X = not available on any variant

# ESC required by ANCAP for 5 star rating from 2008

