

Crash Test Results

New Car Safety

FORD FALCON FG SEDAN

From 2008 Front+side+head airbags



Offset crash test at 64km/h



ANCAP

Rated ★★★★★

Occupant Protection

Occupant Protection Score 34.61 out of 37

Variant: XT sedan

Eng: 4 litre petrol

Kerb mass: 1710 kg

Category: CAR - LARGE

Vehicles built: July 2008

Model History and Safety Features

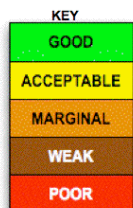
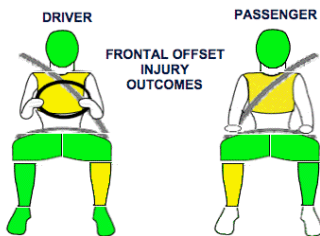
The tested model of Ford Falcon was introduced in Australia during 2008. From January 2008 ANCAP has required Electronic Stability Control (ESC) for a 5 star occupant protection rating. This 5-star rating applies to all petrol variants, including V8s from July 2008 and to LPG-fuelled variants from 1 May 2009, when ESC became available. It includes EcoLPi variants.

Dual front airbags, antilock brakes (ABS) and electronic brakeforce distribution (EBD) are standard across the range. All sedans also have head protecting side airbags as standard equipment. Vehicles have either head/thorax side airbags or thorax side bags plus inflatable side curtains. ANCAP tested a vehicle with head/thorax side airbags. Emergency Brake Assist and ESC are now standard (ESC became available for LPG variants in May 2009). Intelligent seat belt reminders are fitted to both front seats. Power adjustable pedals and a reversing camera are available. Several other safety features are incorporated in the Intelligent Safety System.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

OCCUPANT PROTECTION: 5 Stars

The Falcon scored 14.61 out of 16 in the offset crash test. The passenger compartment was in excellent shape after the test. There was a slight risk of serious chest and leg injury. The vehicle scored 16 out of 16 in the side impact crash test and a further two points in the optional pole test. This is the first Australian-built vehicle to receive a 5 star rating from ANCAP.



FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck 4 pts, chest 2.92 pts, upper legs 4 pts, lower legs 3.69 pts.

The passenger compartment held its shape extremely well in the offset crash test. The accelerator pedal moved rearwards by 29 mm and downwards 2mm. By design, the brake pedal moved forwards to reduce injury risk. The steering wheel hub moved 53mm forward, 47mm downward and 10 mm sideways. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.


SIDE IMPACT CRASH TEST (v4.1)

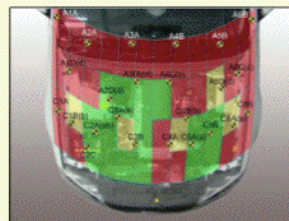
Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points. The seat-mounted side airbag protected the driver's head. Ford provided information to ANCAP which confirmed that the same score can be expected for vehicles equipped with thorax side bags plus curtains.

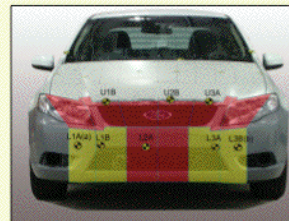
PEDESTRIAN PROTECTION: 2 Stars

An improvement from the previous Falcon, but still performed poorly at the base of windscreen and sides of the bonnet. Upper leg protection was also poor.

PEDESTRIAN PROTECTION		
 v4.1	Rated ★★☆☆☆	
	Child head impacts	7.25
	Adult head impacts	2.10
	Upper leg impacts	Zero
	Lower leg impacts	1.60
Total (out of 36)		10.95



Child and adult head impact



Adult leg impact (upper and full legforms)



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falcon08.doc

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TECHNICAL DATA - FORD FALCON FG SEDAN - 2008

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passenger	Driver
Head HIC	201	282	117
Acceleration (g for 3ms)	40.6	44.2	50.9
Neck - Shear (kN)	0.54	0.39	-
Tension (kN)	1.49	0.98	-
Extension (Nm)	17.1	17.0	-
Chest Accln (g for 3ms)	33.80	37.40	-
Compression (mm)	29.58	23.00	20.30
Viscous criterion (m/s)	0.11	0.07	0.23
Abdomen - Force (kN)	-	-	0.743
Pelvis - Force (kN)	-	-	1.610
Upper legs Force (kN)			
Left	0.68	0.15	
Right	0.11	0.37	
Knee displ (mm)			
Left	0.05	0.11	
Right	0.09	0.62	
Lower legs Force (kN)			
Left	1.93	1.36	
Right	1.39	1.85	
Index (Upper/Low)			
Left	0.45 /0.21	0.31 /0.20	
Right	0.34 /0.24	0.25/0.47	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 2 (see table below for details)

Modifiers - deductions from offset test scores

Head No deduction
 Chest No deduction
 Upper leg Variable & conc. loading No deduction
 Lower leg No deduction
 Foot score Score 4 points

Note: Steering column and pedal movements are measured relative to the driver's seat.

Modifiers - deductions from side impact test scores

Chest No deduction

Safety features

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



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

Key:

S = standard on all variants S* = standard for petrol models but not available for LPG models until 1 May 2009

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.



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