



2016





Adult Occupant



82%





Safety Assist

62%

Pedestrian



65%



43%

SPECIFICATION

Tested Model	SsangYong Tivoli diesel, LHD
Safety pack	AEBS/FCW
Body Type	- 5 door SUV
Year Of Publication	2016
Kerb Weight	1400kg
VIN From Which Rating Applies	- all Tivolis with optional safety pack
Class	Small Family Car

SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	•	•	×
Belt pretensioner	•	•	×
Belt loadlimiter	•	•	•
Knee airbag	0	×	×
SIDE CRASH PROTECTION			
Side head airbag	•	•	•
Side chest airbag	•	•	×
Side pelvis airbag	Euro NCA	P © SsangYong Tiv	X



SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
SIDE CRASH PROTECTION			
Side head airbag	•	•	•
Side chest airbag	•	•	×
Side pelvis airbag	•	•	×
CHILD PROTECTION			
Isofix	_	×	•
Integrated CRS	_	×	×
Airbag cut-off switch	_	•	_
SAFETY ASSIST			
Seat Belt Reminder	•	•	

OTHER SYSTEMS	
Active Bonnet (Hood)	×
AEB City	0
AEB Inter-Urban	0
Speed Assistance System	0
Lane Assist System	0

Note:	Other	equing	ent may	he	available	on th	e vehicle	hut w	vas not	considere	d in the	test \	vear
NULE.	Other	equipii	ienic inay	υc	available	UII LII	c scilicit	DUL W	יווו כסי	CONSIDER		ו נכסנ ו	year.

Fitted to the vehicle as standard	Fitted to the vehicle as part of the safety p	acl

O Not fitted to the test vehicle but available as option or as part of the safety pack X Not available — Not applicable





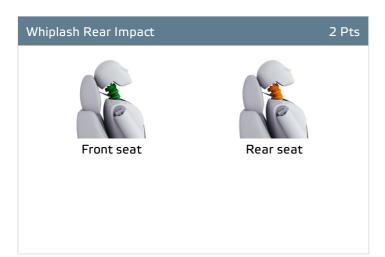
Total 31.3 Pts / 82%

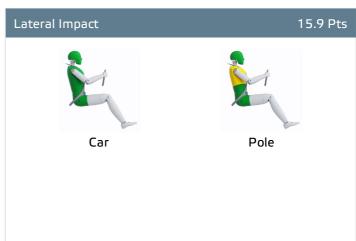
POOR

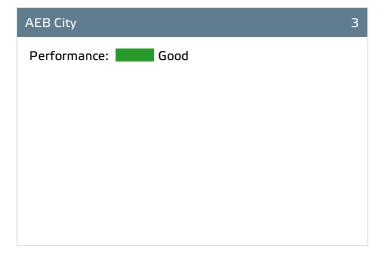




WEAK











Total 31.3 Pts / 82%

Comments

The passenger compartment of the Tivoli remained stable in the offset deformable frontal impact. Dummy readings indicated good protection of the knees and femurs of the driver and passenger. SsangYong showed that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. Readings of chest compression indicated marginal protection of that body region. In the full-width rigid barrier test, protection of the driver was good except for the chest, protection of which was adequate. However, proper retention of the rear dummy failed, allowing excessive forward movement and protection of the head was rated as poor. As a result, the Tivoli lost all points for that dummy. SsangYong are investigating the cause of the failure. In the side barrier impact, the Tivoli scored maximum points with good protection of all critical body areas. Even in the more severe side pole test, protection of the chest was adequate and that of other critical body areas was good. Tests on the front seats and head restraints demonstrated good protection against whiplash injuries in the event of a rear-end collision. A geometric assessment of the rear seats indicated marginal whiplash protection. The Tivoli has an autonomous emergency braking system as part of its optional safety pack. This system operates at low speeds, typical of city driving, where many whiplash injuries are caused. The system scored maximum points in Euro NCAP's tests, with full avoidance at all speeds when tested against a stationary car.



Total 30.4 Pts / 62%



Crash Test Performance based on 6 & 10 year old children

13.9 Pts





Restraint for 6 year old child: *Romer KidFix XP*Restraint for 10 year old child: *Graco Junior* **Safety Features**

5 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	×	•	×
i-Size	×	•	×
Integrated CRS	×	×	×

Fitted to test car as standard

O Not on test car but available as option

🗶 Not available

CRS Installation Check

11.5 Pts

Install without problem
Install with care
Safety critical problem
X Installation not allowed

i-Size CRS











Total 30.4 Pts / 62%

ISOFIX CRS









Universal Belted CRS









Römer KidFix XP (Belt)



Total 30.4 Pts / 62%

		Seat Position				
	Front	Front 2nd row				
	PASSENGER	LEFT	CENTER	RIGHT		
Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize)		•		•		
Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)		•		•		
BeSafe iZi Kid X1 i-Size (iSize)		•		•		
Maxi Cosi Cabriofix & FamilyFix (ISOFIX)		•		•		
BeSafe iZi Kid X3 ISOfix (ISOFIX)		•		•		
Römer Duo Plus (ISOFIX)		•		•		
Römer KidFix XP (ISOFIX)		•		•		
Maxi Cosi Cabriofix (Belt)	•	•	•	•		
Maxi Cosi Cabriofix & EasyBase2 (Belt)	•	•	•	•		
Römer King II LS (Belt)	•	•	•	•		
Römer KidFix XP (Belt)	•	•	•	•		

Install without problem

Install with care

Safety critical problem

🗶 Installation not allowed

Comments

In the frontal offset test, protection of the 10 year dummy's neck was rated as poor, based on dummy readings of neck tensile forces. Similarly, decelerations in the chest of the 6 year dummy indicated poor protection of this body region. In the side impact, both dummies were properly restrained and protected. The front passenger airbag can be disabled to allow a rearward facing child restraint to be used in that seating position. However, the information provided to the driver regarding the status of the airbag did not meet Euro NCAP's requirements and the system was not rewarded. All of the restraint types for which the Tivoli is designed could be properly installed and accommodated. The user manual states that the front passenger seat is not suitable for iSize restraints and the Tivoli lost points for those restraints in that seating position.



🚶 PEDESTRIAN PROTECTION

Total 27.4 Pts / 65%

GOOD ADEQUATE MARGINAL WEAK POOR

Pedestrian Protection 27.4 Pts



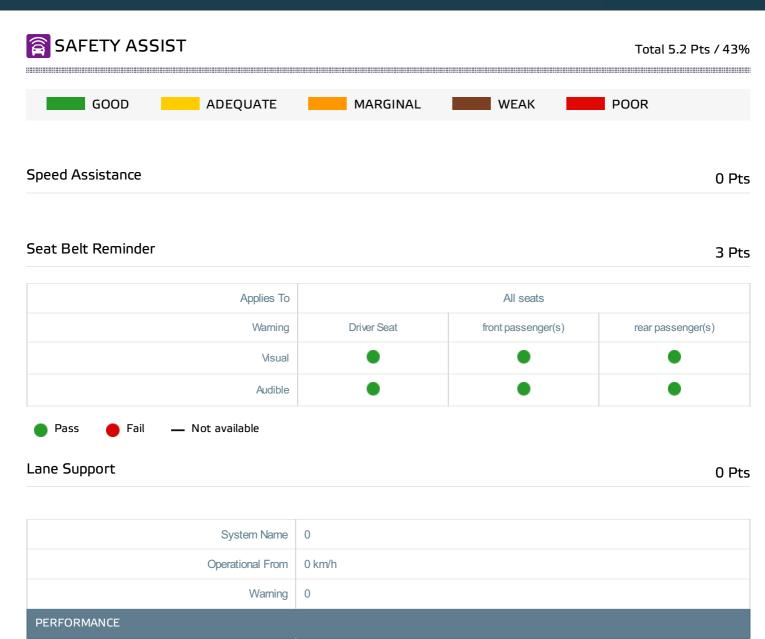
Head Impact	14.5 Pts
Pelvis Impact	2.7 Pts
Leg Impact	6 Pts

AEB Pedestrian		4.2 Pt		
System Name	AEBS/FCW			
Туре	Auto-Brake with Forward Collision Warning			
Operational From	8 Km/h			
Additional Information	Defaults on for every journey; operates above 40km/h and in low ambient light			
PERFORMANCE				
	Autobrake Function			
	Autobrak	ke Function		
	Autobrak Avoidance	ce Function Mitigation		
Running Adult crossing from Farside				
Running Adult crossing from Farside Walking Adult crossing from Nearside -25%	Avoidance	Mitigation		
	Avoidance Collision avoided up to 20 km/h	Mitigation Impact mitigated up to 45 km/h		

Comments

The protection provided by the bonnet to a pedestrian's head was predominantly good or adequate, with poor results recorded only on the stiff windscreen pillars. The bumper scored maximum points for its protection of pedestrians' legs, with good results recorded at all test locations. However, the protection provided to the pelvis was more mixed, ranging from good to poor. The optional autonomous emergency braking system can detect pedestrians and performed well in Euro NCAP's tests, with collision avoidance or mitigation in several of the test scenarios.





LDW Confirmation Test

Fail





Total 5.2 Pts / 43%

AEB Interurban 2.2 Pts

System Name	AEBS/FCW					
Туре	Forward Collision Warning with Auto-Brake					
Operational From	8 Km/h					
Additional Information	Default On					
PERFORMANCE PE						
Operational Speed	8-180 Km/h	8-180 Km/h				
	Autobrake Function Only	Driver reacts to warning				
Approaching a stationary car	See AEB City	Crash avoided up to 50km/h. Crash speed reduced up to 70km/h.				
Approaching a slower moving car	Crash avoided up to 55km/h.	Crash avoided up to 80km/h.				
FOLLOWING A CAR AT SHORT DISTANCE						
Car in front brakes gently	Avoidance	Avoidance				
Car in front brakes harshly	Mitigation	Mitigation				
FC	FOLLOWING A CAR AT LONG DISTANCE					
Car in front brakes gently	Mitigation	Mitigation				
Car in front brakes harshly	Avoidance	Avoidance				

Comments

The Tivoli has, as standard, a seatbelt reminder for the front and rear seats. Autonomous emergency braking is part of the optional safety pack and operates at highway speeds. Tests of this functionality demonstrated good performance, with accident avoidance or mitigation in several of the scenarios tested.