



QUICKLOOK REPORT

56 km/h (35 mph) Frontal Impact NCAP Rigid Barrier Test

2018 Subaru Legacy 2.5I /JAB 4-Door Sedan NHTSA No. M20185504

October 18, 2017

Injury Reading	Driver, 50th Percentile Male S/N 360					Passenger, 5th Percentile Female S/N 630			
	Units	Limit	Value	t ¹	t ²	Limit	Value	t ¹	t ²
HIC 15		700	94.686	71.0	86.0	700	167.937	68.1	83.1
Nij		1	0.254	58.9	Ntf	1	0.315	105.4	Nte
Upper Neck Force Z (Tension)	N	4170	1333.041	71.5		2620	936.284	33.5	
Upper Neck Force Z (Compression)	N	4000	-288.205	21.5		2520	-172.355	95.6	
Upper Neck Moment Y (Flexion)	N	310	32.479	57.5		155	24.459	64.9	
Upper Neck Moment Y (Tension)	N	135	-18.730	41.3		67	-22.110	104.9	
Chest Deflection	mm	63	-25.408	64.0		52	-14.665	74.2	
3 ms Chest Clip	g	60	32.173	80.5	83.5	60	32.311	76.0	79.0
Femur Force, Left	N	10000	-143.228	170.0		6800	-442.362	41.5	
Femur Force, Right	N	10000	-715.499	61.4		6800	-1036.796	61.0	

Test Particulars				
	Metric Units		English Units	
	Units	Value	Units	Value
Vehicle Impact Velocity	km/h	56.29	mph	34.98
Vehicle Curb Weight	kg	1576	lbs	3475
Vehicle Test Weight	kg	1756	lbs	3871
As Delivered Vehicle Width	mm	1842	Inches	72.5
As Delivered Vehicle Wheelbase	mm	2755	Inches	108.5
As Delivered Vehicle Length	mm	4810	Inches	189.4

Standards Measured Post-Test	
212 - Windshield Periphery Retention	Yes
219 (Partial) - Windshield Zone Intrusion	Yes
301 - Fuel System Integrity	Yes
If No, Amount Measured In Ounces	
305 - Electrolyte Spillage	N/A
If No, Amount Measured In Ounces	
305 - Electrical Isolation	N/A
If No, Ohms / Volts	
305 - Battery Retention	N/A
If No, Failure Location	

	Airbag Deployment			
	Driver (P1)		Front Pass. (P2)	
	Deployment	Mount	Deployment	Mount
Front	Yes	St. Whl	Yes	Dash
Knee	N/A	N/A	N/A	N/A
Side Torso	No	Seat	No	Seat
Side Curtain	No	Header	No	Header

	Vehicle Safety Features	
	Driver	Passenger
Pre-tensioners	Yes	Yes
Load Limiters	Yes	Yes
Adj. Belt Anchors	Yes	Yes
ABS	Yes	
ADLs	Yes	

Comments: Driver Seat Pan Airbag Deployed.

Test Vehicle Doors	
Disable ADLs Using Owners Manual	Yes
Doors Locked (Pre-Test)	No
Doors Latched (Post-Test)	Yes

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TR-P37327-01-NC