

TECHNICAL RECONSTRUCTION ATTACHMENT

2007 Dodge Ram 2500 Vehicle Specifications

Andrews, TX

HWY22MH006

(3 pages)

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ERIC GREGSON NTSB - OFFICE OF HIGHWAY SAFETY 490 L'ENFANT PLAZA EAST SW

WASHINGTON DC 20594

7/6/2022

2007 DODGE RAM 2500 QUAD CAB 141WB 4 DOOR 4X4 PICKUP

Curb Weight: Curb Weight Distribution - Front:	6083 lbs.	275 Rear: 42	
Gross Vehicle Weight Rating:	8800 lbs.	399	2 kg.
Number of Tires on Vehicle: Drive Wheels:	4 4 Wheel Drive		
Horizontal Dimensions	Inches	Feet	Meters
Total Length	228	19.00	5.79
<pre>Wheelbase:</pre>	141	11.75	3.58
Front Bumper to Front Axle:	37	3.08	0.94
Front Bumper to Front of Front Well:	17	1.42	0.43
Front Bumper to Front of Hood:	4	0.33	0.10
Front Bumper to Base of Windshield:	51	4.25	1.30
Front Bumper to Top of Windshield:	80	6.67	2.03
Rear Bumper to Rear Axle:	50	4.17	1.27
Rear Bumper to Rear of Rear Well:			
Rear Bumper to Rear of Trunk:	6	0.50	0.15
Rear Bumper to Base of Rear Window:	85	7.08	2.16
Width Dimensions			
Maximum Width:	80	6.67	2.03
Front Track:	68	5.67	1.73
Rear Track:	67	5.58	1.70
Vertical Dimensions			
Height:	78	6.50	1.98
Ground to -			
Front Bumper (Top)	30	2.50	0.76
Headlight - center	38	3.17	0.97
Hood - top front:	48	4.00	1.22
Base of Windshield	57	4.75	1.45
Rear Bumper - top:	27	2.25	0.69
Trunk - top rear:	58	4.83	1.47
Base of Rear Window:	58	4.83	1.47

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Interior Dimensions	Inches	Feet	Meters
Front Seat Shoulder Width	66	5.50	1.68
Front Seat to Headliner	40	3.33	1.02
Front Leg Room - seatback to floor (max) 41	3.42	1.04
Rear Seat Shoulder Width	68	5.67	1.73
Rear Seat to Headliner	39	3.25	0.99
Front Leg Room - seatback to floor (min) 32	2.67	0.81
Seatbelts: 3pt - front and rear			
Airbags: FRONT SEAT AIRBAGS			
Steering Data			
Turning Circle (Diameter)	552	46	14.02
Steering Ratio: 14.10:1			
Wheel Radius:			
Tire Size (OEM): LT245/70R17			
Acceleration & Braking Information			
Brake Type: ALL DISC			
ABS System: ALL WHEEL ABS			
Braking, 60 mph to 0 (Hard pedal, no $d = 196.0$ ft $t = 4.5$ se	skid, dry pavement): ec a = [-19.7] ft/	′sec² G-for	rce = -0.61
Acceleration:			
0 to 30mph $t = 4.1$ se	ec a = 10.7 ft/	sec² G-for	ce = 0.33
0 to 60mph $t = 12.0$ se	ec a = 7.3 ft/	'sec² G-for	ce = 0.23
45 to 65mph t = se	ec a = ft/	sec² G-for	ce =

Notes:

Transmission Type:

Federal Bumper Standard Requirements: No Requirement

5spd MANUAL

N.S.D.C = 2003 - 2009

1.13

Reasonably Stable

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Other Information

Tip-Over Stability Ratio =

NHTSA Star Rating (calculated)			**	
Center of Gravity (No Load):		Inches	Feet	Meters
behind front axle	=	59.22	4.93	1.50
in front of rear axle	=	81.78	6.82	2.08
from side of vehicle	=	40.00	3.33	1.02
from ground	=	29.99	2.50	0.76
from front corner	=	104.20	8.68	2.65
from rear corner	=	137.72	11.48	3.50
from front bumper	=	96.22	8.02	2.44
from rear bumper	=	131.78	10.98	3.35
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ments of Inertia Approximations	(No Load):	lb*ft*sec²	kg*m*sec²
Yaw Moment of Inertia	=	4922.49	680.56
Pitch Moment of Inertia	=	5155.96	712.84
Roll Moment of Inertia	=	1103.26	152.53

Front Profile Information

Angle Front Bumper to Hood Front	=	77.5 de	∍g
Angle Front of Hood to Windshield Base	=	10.8 de	∍g
Angle Front of Hood to Windshield Top	=	20.2 de	∍g
Angle of Windshield	=	33.2 de	∍g
Angle of Steering Tires at Max Turn	=	29.3 de	≥g

First Approximation Crush Factors:

Speed Equivalent (mph) of Kinetic Energy (KE) used in causing crush of indentation may be evaluated using the following formula, the appropriated Crush Factor (CF), and Maximum Indentation Depth (MID), in feet:

These CF values are based upon analysis of NHTSA Barrier Crash data, and from over 1000 vehicle accidents where independent evaluation of speed was possible. (These are NOT 'A', 'B', 'C', or 'G' values)

The rear Impact data with more then 2-3 inches of crush damage should be looked at carefully, since some vehicles have very weak trunk & fender strength. Therefore, on some cars, especially GM, you estimate from the rear crush data may be high by as much as 4-5 mph (on a crush of 18 inches).