



**Reconstruction Group Attachment**

**Vehicle Specifications Dodge Journey SUV**

**Avenal, CA**

**HWY21FH003**

(4 Pages)

CHP MAIT - CENTRAL DIVISION  
5179 NORTH GATES AVENUE  
FRESNO CA 93722-6414

3/1/2021

## 2013 DODGE JOURNEY (L4) 4 DOOR 4X2 UTILITY

Curb weight: 

3801
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 lbs. 

1724
------

 kg.

Curb weight Distribution - Front: 

56
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 % Rear: 

44
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 %

Gross Vehicle weight Rating: 

5005
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 lbs. 

2270
------

 kg.

Number of Tires on Vehicle: 

4
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Drive wheels: 

FRONT
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## Horizontal Dimensions

	Inches	Feet	Meters
Total Length	192	16.00	4.88
wheelbase:	114	9.50	2.90
Front Bumper to Front Axle:	37	3.08	0.94
Front Bumper to Front of Front Well:	19	1.58	0.48
Front Bumper to Front of Hood:	6	0.50	0.15
Front Bumper to Base of Windshield:	43	3.58	1.09
Front Bumper to Top of Windshield:	75	6.25	1.91
Rear Bumper to Rear Axle:	41	3.42	1.04
Rear Bumper to Rear of Rear Well:	23	1.92	0.58
Rear Bumper to Rear of Trunk:	4	0.33	0.10
Rear Bumper to Base of Rear Window:	5	0.42	0.13

## Width Dimensions

Maximum width:	72	6.00	1.83
Front Track:	62	5.17	1.57
Rear Track:	62	5.17	1.57

## Vertical Dimensions

Height:	67	5.58	1.70
Ground to -			
Front Bumper (Top)	24	2.00	0.61
Headlight - center	32	2.67	0.81
Hood - top front:	36	3.00	0.91
Base of windshield	44	3.67	1.12
Rear Bumper - top:	27	2.25	0.69
Trunk - top rear:	45	3.75	1.14
Base of Rear Window:	48	4.00	1.22

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Interior Dimensions

	Inches	Feet	Meters
Front Seat Shoulder width	57	4.75	1.45
Front Seat to Headliner	41	3.42	1.04
Front Leg Room - seatback to floor (max)	41	3.42	1.04
Rear Seat Shoulder width	57	4.75	1.45
Rear Seat to Headliner	40	3.33	1.02
Front Leg Room - seatback to floor (min)	34	2.83	0.86

Seatbelts:   
 Airbags:

Steering Data

Turning Circle (Diameter)     
 Steering Ratio:   
 Wheel Radius:   
 Tire Size (OEM):

Acceleration & Braking Information

Brake Type:   
 ABS System:

Braking, 60 mph to 0 (Hard pedal, no skid, dry pavement):

d =  ft    t =  sec    a =  ft/sec<sup>2</sup>    G-force =

Acceleration:

0 to 30mph    t =  sec    a =  ft/sec<sup>2</sup>    G-force =   
 0 to 60mph    t =  sec    a =  ft/sec<sup>2</sup>    G-force =   
 45 to 65mph    t =  sec    a =  ft/sec<sup>2</sup>    G-force =

Transmission Type:

Notes:

Federal Bumper Standard Requirements:

N.S.D.C =

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Other Information

Tip-Over Stability Ratio =  
NHTSA Star Rating (calculated)

1.16

Reasonably Stable

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Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	50.16	4.18	1.27
in front of rear axle	63.84	5.32	1.62
from side of vehicle	36.00	3.00	0.91
from ground	26.73	2.23	0.68
from front corner	94.30	7.86	2.40
from rear corner	110.85	9.24	2.82
from front bumper	87.16	7.26	2.21
from rear bumper	104.84	8.74	2.66

Moments of Inertia Approximations (No Load):

Yaw Moment of Inertia	2572.03	lb*ft*sec <sup>2</sup>
Pitch Moment of Inertia	2600.12	lb*ft*sec <sup>2</sup>
Roll Moment of Inertia	601.22	lb*ft*sec <sup>2</sup>

Front Profile Information

Angle Front Bumper to Hood Front	63.4	deg
Angle Front of Hood to Windshield Base	12.2	deg
Angle Front of Hood to Windshield Top	22.8	deg
Angle of Windshield	33.3	deg
Angle of Steering Tires at Max Turn	28.6	deg

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:

$$V(\text{mph}) = \sqrt{(30 * CF * MID)}$$

KE Equivalent Speed (Front/Rear/Side) = 21 CF

Bullet vehicle IMPACT SPEED estimation  
based on TARGET VEHICLE damage ONLY = 27 CF  
(Tested for Rear/Side Impact only)

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).