

## TECHNICAL RECONSTRUCTION ATTACHMENT

# 2017 Ford Transit Van Vehicle Specifications

Andrews, TX

**HWY22MH006** 

(4 pages)

### Expert AutoStats®

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NTSB - OFFICE OF HIGHWAY SAFETY

490 L'ENFANT PLAZA EAST SW

WASHINGTON DC 20594

7/6/2022

#### 2017 FORD TRANSIT 350 MEDIUM ROOF 148WB 3 DOOR PASSENGER VAN

2017 FORD TRANSIT 350 MEDIUM ROOF 148WB 3	DOOR PASSENGER V	'AN	
Curb Weight:	<b>6092</b> 1bs.		<b>2763</b> kg.
Curb Weight Distribution - Front:	<b>51</b> %	Rear:	49 %
Gross Vehicle Weight Rating:	9000 lbs.		<b>4082</b> kg.
Number of Tires on Vehicle: Drive Wheels:	4 REAR		
Horizontal Dimensions Total Length	Inches	Feet <b>19.83</b>	Meters 6.05
Wheelbase:	148	12.33	
Front Bumper to Front Axle:	41	3.42	
Front Bumper to Front of Front Well:	24	2.00	
Front Bumper to Front of Hood:	5	0.42	
Front Bumper to Base of Windshield:	26	2.17	
Front Bumper to Top of Windshield:	60	5.00	1.52
Rear Bumper to Rear Axle:	49	4.08	
Rear Bumper to Rear of Rear Well:	30	2.50	
Rear Bumper to Rear of Trunk:	3	0.25	
Rear Bumper to Base of Rear Window:	5	0.42	0.13
Width Dimensions			
Maximum Width:	81	6.75	
Front Track:	68	5.67	
Rear Track:	69	5.75	1.75
Vertical Dimensions			
Height:	101	8.42	2.57
Ground to -			
Front Bumper (Top)	26	2.17	0.66
Headlight - center	41	3.42	1.04
Hood - top front:	44	3.67	
Base of windshield	53	4.42	
Rear Bumper - top:	20	1.67	_
Trunk - top rear:	39	3.25	
Base of Rear Window:	55	4.58	1.40

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### 2017 FORD TRANSIT 350 MEDIUM ROOF 148WB 3 DOOR PASSENGER VAN

Interior Dimensions  Front Seat Shoulder Width  Front Seat to Headliner  Front Leg Room - seatback to floor (max)  Rear Seat Shoulder Width	Inches 68 41 40	Feet 5.67 3.42 3.33	1.73 1.04 1.02
Rear Seat to Headliner	41	3.42	1.04
Front Leg Room - seatback to floor (min)	34	2.83	0.86
Seatbelts: 3pt LAP & SHOULDER - front,	None or Unknown -	· rear	
Airbags: FRONT SEAT AIRBAGS + SIDE AI	RBAGS		
Steering Data			
Turning Circle (Diameter)			
Steering Ratio: :1			
Wheel Radius:	13	1.08	0.33
Tire Size (OEM): 235/65R16			
Acceleration & Braking Information			
Brake Type: ALL DISC			
ABS System: ALL WHEEL ABS			
Braking, 60 mph to 0 (Hard pedal, no skid, $d = \begin{bmatrix} 139.0 \end{bmatrix}$ ft $t = \begin{bmatrix} 3.2 \end{bmatrix}$ sec	dry pavement): a = -27.8 ft/se	c² G-forc	ce = <b>-0.86</b>
Acceleration:			
0 to 30mph	a = ft/se	c² G-for	ce =
0 to 60mph $t = \boxed{7.6}$ sec	a = <b>11.6</b> ft/se	c² G-for	ce = <b>0.36</b>
45 to 65mph t = sec	a = ft/se	c² G-ford	ce =
Transmission Type: AUTOMATIC			
Notes:  Federal Bumper Standard Requirements:	No Requirement		

N.S.D.C = 2015 - 2022

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#### Other Information

Tip-Over Stability Ratio =	0.87	U	nstable	
NHTSA Star Rating (calculated)			*	
Center of Gravity (No Load):		Inches	Feet	Meters
behind front axle	=	72.52	6.04	1.84
in front of rear axle	=	75.48	6.29	1.92
from side of vehicle	=	40.50	3.38	1.03
from ground	=	39.54	3.30	1.00
from front corner	=	120.53	10.04	3.06
from rear corner	=	130.90	10.91	3.32
from front bumper	=	113.52	9.46	2.88
from rear bumper	=	124.48	10.37	3.16
Noments of Twentie Amprovimentions (No	Load		coc2 ka*m*c	2002

#### Moments of Inertia Approximations (No Load):

-	-
	=
	=
	=

#### lb\*ft\*sec2 kg\*m\*sec2 4

4931.76	681.84
5166.04	714.23
1105.24	152.80

#### Front Profile Information

Angle Front Bumper to Hood Front	=	<b>74.</b> 5 de	eg
Angle Front of Hood to Windshield Base	=	23.2 de	eg
Angle Front of Hood to Windshield Top	=	<b>45.0</b> de	eg
Angle of Windshield	=	53.5 de	eg
Angle of Steering Tires at Max Turn	=	de	eg

#### 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).