



Reconstruction Group Attachment

Vehicle Specifications Ford F-150 Pickup Truck

Avenal, CA

HWY21FH003
(4 Pages)

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

3/4/2021

2007 FORD F150 SUPERCREW 139WB 4 DOOR 4X4 PICKUP

Curb weight:	<input type="text" value="5554"/>	lbs.	<input type="text" value="2519"/>	kg.
Curb Weight Distribution -	Front: <input type="text" value="56"/>	%	Rear: <input type="text" value="44"/>	%
Gross Vehicle Weight Rating:	<input type="text" value="6900"/>	lbs.	<input type="text" value="3130"/>	kg.
Number of Tires on Vehicle:	<input type="text" value="4"/>			
Drive Wheels:	<input type="text" value="4 wheel Drive"/>			

Horizontal Dimensions

	Inches	Feet	Meters
Total Length	<input type="text" value="224"/>	<input type="text" value="18.67"/>	<input type="text" value="5.69"/>
wheelbase:	<input type="text" value="139"/>	<input type="text" value="11.58"/>	<input type="text" value="3.53"/>
Front Bumper to Front Axle:	<input type="text" value="36"/>	<input type="text" value="3.00"/>	<input type="text" value="0.91"/>
Front Bumper to Front of Front Well:	<input type="text" value="17"/>	<input type="text" value="1.42"/>	<input type="text" value="0.43"/>
Front Bumper to Front of Hood:	<input type="text" value="5"/>	<input type="text" value="0.42"/>	<input type="text" value="0.13"/>
Front Bumper to Base of windshield:	<input type="text" value="50"/>	<input type="text" value="4.17"/>	<input type="text" value="1.27"/>
Front Bumper to Top of windshield:	<input type="text" value="77"/>	<input type="text" value="6.42"/>	<input type="text" value="1.96"/>
Rear Bumper to Rear Axle:	<input type="text" value="49"/>	<input type="text" value="4.08"/>	<input type="text" value="1.24"/>
Rear Bumper to Rear of Rear Well:	<input type="text" value="30"/>	<input type="text" value="2.50"/>	<input type="text" value="0.76"/>
Rear Bumper to Rear of Trunk:	<input type="text" value="6"/>	<input type="text" value="0.50"/>	<input type="text" value="0.15"/>
Rear Bumper to Base of Rear Window:	<input type="text" value="76"/>	<input type="text" value="6.33"/>	<input type="text" value="1.93"/>

Width Dimensions

Maximum Width:	<input type="text" value="79"/>	<input type="text" value="6.58"/>	<input type="text" value="2.01"/>
Front Track:	<input type="text" value="67"/>	<input type="text" value="5.58"/>	<input type="text" value="1.70"/>
Rear Track:	<input type="text" value="67"/>	<input type="text" value="5.58"/>	<input type="text" value="1.70"/>

Vertical Dimensions

Height:	<input type="text" value="75"/>	<input type="text" value="6.25"/>	<input type="text" value="1.91"/>
Ground to -			
Front Bumper (Top)	<input type="text" value="29"/>	<input type="text" value="2.42"/>	<input type="text" value="0.74"/>
Headlight - center	<input type="text" value="39"/>	<input type="text" value="3.25"/>	<input type="text" value="0.99"/>
Hood - top front:	<input type="text" value="45"/>	<input type="text" value="3.75"/>	<input type="text" value="1.14"/>
Base of windshield	<input type="text" value="52"/>	<input type="text" value="4.33"/>	<input type="text" value="1.32"/>
Rear Bumper - top:	<input type="text" value="30"/>	<input type="text" value="2.50"/>	<input type="text" value="0.76"/>
Trunk - top rear:	<input type="text" value="57"/>	<input type="text" value="4.75"/>	<input type="text" value="1.45"/>
Base of Rear Window:	<input type="text" value="57"/>	<input type="text" value="4.75"/>	<input type="text" value="1.45"/>

2007 FORD F150 SUPERCREW 139WB 4 DOOR 4X4 PICKUP

Interior Dimensions

	Inches	Feet	Meters
Front Seat Shoulder Width	67	5.58	1.70
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	67	5.58	1.70
Rear Seat to Headliner	40	3.33	1.02
Front Leg Room - seatback to floor (min)	33	2.75	0.84

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/sec² G-force =

Acceleration:

0 to 30mph t = sec a = ft/sec² G-force =
 0 to 60mph t = sec a = ft/sec² G-force =
 45 to 65mph t = sec a = ft/sec² G-force =

Transmission Type:

Notes:

Federal Bumper Standard Requirements:

N.S.D.C =

2007 FORD F150 SUPERCREW 139WB 4 DOOR 4X4 PICKUP

Other Information

Tip-Over Stability Ratio = 1.16 Reasonably Stable
 NHTSA Star Rating (calculated) ***

Center of Gravity (No Load):

	Inches	Feet	Meters
behind front axle	61.16	5.10	1.55
in front of rear axle	77.84	6.49	1.98
from side of vehicle	39.50	3.29	1.00
from ground	28.84	2.40	0.73
from front corner	104.88	8.74	2.66
from rear corner	132.85	11.07	3.37
from front bumper	97.16	8.10	2.47
from rear bumper	126.84	10.57	3.22

Moments of Inertia Approximations (No Load):

Yaw Moment of Inertia	4377.62	lb*ft*sec ²
Pitch Moment of Inertia	4563.48	lb*ft*sec ²
Roll Moment of Inertia	986.88	lb*ft*sec ²

Front Profile Information

Angle Front Bumper to Hood Front	72.6	deg
Angle Front of Hood to Windshield Base	8.8	deg
Angle Front of Hood to Windshield Top	21.3	deg
Angle of Windshield	37.9	deg
Angle of Steering Tires at Max Turn	29.5	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).