



F-150 WHAT'S NEW

- All-New 3.5L PowerBoost Full Hybrid V6 Powertrain
- Pro-Power Onboard feature provides up to 7.2 kW of electrical power
- Ford Co-Pilot360 2.0 features now include Reverse Brake Assist and Post-Collision Braking
- Rock Crawl Mode
- Innovative Interior Work Surface
- Wireless Charging Pad
- Integrated Tailgate Work Surface
- LED Box Lighting w/Zone Lighting
- Max-Recline Front Seats (“sleeper seats”) – late availability
- SYNC 4 with Enhanced Voice Recognition and Connected Navigation
- New Extended Running Boards for Improved Cargo Box Access



F-150 INDEX

F-150	Page
WHAT'S NEW	1
INDEX	2
INTRODUCTION	3
MODEL LINEUP (Weights: GVWR, Payload, GAWR, Curb, ARC, GCWR)	
REGULAR CAB	4
SUPER CAB	5
SUPER CREW	6
FOOTNOTES	7
DIMENSIONAL DATA	
REGULAR CAB	8-9
SUPER CAB	10-11
SUPER CREW	12-13
STYLESIDE PICKUP BOX	14-15
AXLE / TIRE / VEHICLE HEIGHT DATA DATA	
REGULAR CAB & SUPER CAB	16
SUPER CREW	17
TIRE & WHEEL DATA	18
FRONT SURFACE AREA WORKSHEETEL DATA	19
SEAT TRACK & H-POINT DATA	20
FORD CO-PILOT360™ TECHNOLOGY (DRIVER-ASSIST SYSTEMS)	21
REVISION TABLE	22

WARNING

During the production and servicing of these vehicles, due care should be taken to avoid damaging safety- or emissions-related systems such as braking, fuel lines, sensors, catalysts, etc. through contacting them while working on adjacent areas of the vehicle. Inadvertent damage can also occur due to adjacent welding / cutting operations or people standing near / on unprotected systems while performing other tasks.

Important Notices

The information described herein is believed to be correct at the time of publication, but accuracy cannot be guaranteed. Ford reserves the right to discontinue models or change specifications or designs at any time without notice and without incurring any obligation.

Representations regarding the compliance of any Ford-manufactured incomplete vehicle to any rule, regulation or standard issued pursuant to the National Traffic and Motor Vehicle Safety Act or the Canadian Motor Vehicle Safety Act are set forth only in the Incomplete Vehicle Manual (IVM) which accompanies each incomplete vehicle.

Regulations such as those issued by the Federal Highway Administration (FHA) or issued pursuant to the Occupational Safety and Health Act (OSHA), and/or state, provincial, and local laws and regulations may require installation of additional equipment for the particular use intended for the vehicle. It is the responsibility of the subsequent stage manufacturer or completed vehicle alterer and the vehicle purchaser to ascertain how the vehicle will ultimately be used, if FHA, OSHA or state provincial or local regulations apply and how the vehicle as completed will comply with those requirements. Nothing contained herein is to be construed as a representation that such equipment required for the particular use intended has been installed on the completed or incomplete vehicle.

Reference Information

Ford Body Builder Advisory Service Publications

This document is an example of a program-specific Body Builders Layout Book (BBLB) published by the Ford Body Builder Advisory Service (BBAS) team. Each Ford Commercial Truck vehicle line has a similar document that aims to provide detailed information which may be of interest to a subsequent-stage manufacturer or alterer.

The Ford Transit and Transit Connect also have a Body and Equipment Mounting Manual (BEMM), which is a comprehensive resource dedicated to body and equipment mounting information.

Yet another source of program-specific information are the "Vehicle Specification" documents available on the Ford BBAS website. Information typically found in these documents are: vehicle curb and accessory weights, vehicle dimensions, component descriptions, capacities, GAWRs, alternator output, powertrain output and gear ratios.

In addition to the program-specific documents, there are several Ford BBLB documents that contain general best practices or information on specific subjects that span multiple vehicle lines. These include:

- General BBLB - contains Definitions, Design Recommendations and Vehicle Storage Guidelines.
- Snow Plow BBLB
- Pickup Box Removal BBLB

These publications are updated every model year and can be accessed via the web at <https://fordbbas.com> under "Publications". For BBLB and BEMM documents, expand the "Body Builder Layout Book" Section to view all available documents. For Vehicle Specifications, expand the "Vehicle Specifications" section. The website search function can be used to filter for specific content or vehicle line.

Ford Body Builder Advisory Service Bulletins

Occasionally, the Ford BBAS team will create an SVE "Bulletin" to address a specific issue or distribute important information in a timely manner. These documents can be accessed via the web at <https://fordbbas.com> under "Bulletins". The website search function can be used to filter for specific content or vehicle line.

If applicable, information from each SVE bulletin will be incorporated into the appropriate BBLB document the following model year. In some cases, SVE bulletins will continue to be referenced in this document.

Ford Body Builder Advisory Service Contact

The Ford Truck Body Builder Advisory Service may be consulted if questions regarding the completion of Ford commercial vehicles are not adequately addressed in the documentation described above. For assistance call (877) 840-4338 or e-mail via the web at <https://fordbbas.com> under "Contact Us" and select "General Questions".

For Ford vehicle CAD requests, please visit <https://fordbbas.com>, select "Contact Us" and then "CAD Request".

For both Questions and CAD Requests, please be as specific as possible with the request details to assure the most accurate and timely response.

Ford Service Publications

Ford Service Technical Resources (including wiring diagrams, repair manuals and diagnostic tool support) are available by subscription via the Motorcraft website: www.motorcraftservice.com

The following publications are examples of digital and printed manuals which are available from Helm Incorporated; call 1-800-782-4356 or contact Helm, Inc. at their website www.helminc.com:

- Ford Truck Shop Manuals
- Ford Towing Manuals
- Ford Wiring Diagrams



Body Builders Layout Book

4

F-150

F-150 MODEL LINEUP REGULAR CAB

2021

MODEL YEAR

Cab	WB (in.)	Drive	Engine	GVWR	Payload (Max) (1)	Base Curb Weight			GAWR (Max) (2)		Axle Rating (Max)		Spring Rating (Max)		ARC Wt (Max) (3)	GCWR (Max)
						Front	Rear	Total	Front	Rear	Front	Rear	Front	Rear		
Reg Cab	122 6.5' Box	4x2	3.3L PFDI	6010	1985	2355	1666	4021	2850	3500	3225	3500	2850	3500	572	12,600
			2.7L EcoBoost	6050	1875	2471	1700	4171	2850	3450	3450	3450	2850	3450	576	13,200
			5.0L	6200	1900	2522	1778	4300	2850	3800	3375	3800	2850	3800	573	13,800
		4x4	3.3L PFDI	6050	1775	2549	1726	4275	3000	3400	3450	3400	3000	3400	580	12,800
			2.7L EcoBoost	6150	1705	2677	1764	4441	3150	3400	3525	3400	3150	3400	598	13,300
			5.0L	6400	1835	2769	1795	4564	3150	3800	3750	3800	3150	3800	583	14,600
	141 8' Box	4x2	3.3L PFDI	6100	1975	2458	1664	4122	3000	3400	3225	3500	3000	3400	654	12,700
			2.7L EcoBoost	6170	1905	2569	1694	4263	3000	3400	3450	3400	3000	3400	682	13,300
			2.7L EcoBoost (Mid Payload Pkg)	6900	2480	2625	1795	4420	3150	4050	3525	4050	3150	4050	680	14,800
			5.0L	6750	2350	2679	1719	4398	3150	4150	3375	4150	3150	4150	689	17,900
			5.0L (Heavy Payload Pkg)	7850	3325	2666	1858	4524	3400	4800	3750	4800	3400	4800	691	18,000
			3.5L EcoBoost	7050	2620	2652	1776	4428	3150	4150	3600	4150	3150	4150	711	17,900
		4x4	3.5L EcoBoost (Heavy Payload Pkg)	7850	3250	2683	1917	4600	3400	4800	3750	4800	3400	4800	642	18,400
			3.3L PFDI	6325	1960	2691	1672	4363	3150	3400	3450	3400	3150	3400	673	12,900
			2.7L EcoBoost	6435	1885	2837	1709	4546	3300	3400	3525	3400	3300	3400	699	13,300
			2.7L EcoBoost (Mid Payload Pkg)	6800	2125	2874	1798	4672	3300	3800	3600	3800	3375	3800	704	15,100
			5.0L	6950	2300	2887	1763	4650	3375	4150	3750	4150	3375	4150	752	17,900
			5.0L (Heavy Payload Pkg)	7850	3050	2895	1902	4797	3400	4800	3750	4800	3400	4800	674	18,300
			3.5L EcoBoost	7050	2360	2839	1851	4690	3300	4150	3750	4150	3375	4150	735	17,900
			3.5L EcoBoost (Heavy Payload Pkg)	7850	3035	2882	1932	4814	3400	4800	3750	4800	3400	4800	665	18,400

Weight Unit: Pounds



Body Builders Layout Book

5

F-150

F-150 MODEL LINEUP SUPER CAB

2021

MODEL YEAR

Cab	WB (in.)	Drive	Engine	GVWR	Payload (Max) (1)	Base Curb Weight			GAWR (Max) (2)		Axle Rating (Max)		Spring Rating (Max)		ARC Wt (Max) (3)	GCWR (Max)
						Front	Rear	Total	Front	Rear	Front	Rear	Front	Rear		
Super Cab	145 6.5' Box	4x2	3.3L PFDI	6250	1905	2520	1825	4345	3150	3400	3225	3500	3150	3400	713	12,900
			2.7L EcoBoost	6325	1855	2629	1865	4469	3300	3400	3450	3400	3300	3400	845	13,300
			2.7L EcoBoost (Mid Payload Pkg)	6750	2175	2657	1916	4573	3375	3800	3525	4050	3375	3800	845	15,000
			5.0L	6900	2345	2727	1827	4554	3375	3800	3375	3800	3450	3800	844	17,800
			3.5L EcoBoost	6900	2290	2690	1917	4607	3375	3800	3600	4150	3375	3800	878	17,500
			3.0L Diesel	7050	2100	2904	2043	4947	3525	4050	3750	4050	3525	4050	810	17,700
		4x4	3.3L PFDI	6480	1880	2754	1844	4598	3375	3400	3450	3400	3375	3400	736	13,100
			2.7L EcoBoost	6500	1745	2874	1881	4755	3600	3400	3600	3400	3600	3400	825	13,300
			2.7L EcoBoost (Mid Payload Pkg)	7000	2165	2894	1937	4831	3600	3800	3600	3800	3600	3800	852	15,300
			5.0L	7050	2240	2929	1881	4810	3600	3800	3750	3800	3600	3800	888	17,600
			3.5L EcoBoost	7050	2190	2907	1953	4860	3600	3800	3750	4150	3600	3800	883	17,700
			3.0L Diesel	7050	1840	3135	2072	5208	3900	4050	3900	4050	3900	4050	800	17,900
	164 8' Box	4x2	2.7L EcoBoost	6500	1925	2711	1863	4574	3450	3400	3450	3400	3450	3400	854	13,300
			2.7L EcoBoost (Mid Payload Pkg)	6900	2225	2771	1904	4675	3500	3800	3525	4050	3525	3800	853	15,100
			5.0L	7000	2325	2805	1870	4675	3525	4150	3525	4150	3525	4150	851	18,200
			5.0L (Heavy Payload Pkg)	7850	3010	2819	2018	4837	3750	4800	3750	4800	3750	4800	753	18,300
			3.5L EcoBoost	7050	2285	2813	1951	4764	3525	4150	3525	4150	3525	4150	884	19,400
			3.5L EcoBoost (Heavy Payload Pkg)	7850	2980	2816	2050	4866	3750	4800	3750	4800	3750	4800	741	19,400
		4x4	5.0L	7150	2205	2929	2012	4941	3650	4150	3650	4150	3750	4150	899	18,400
			5.0L (Heavy Payload Pkg)	7850	2765	2975	2107	5082	3750	4800	3750	4800	3750	4800	782	18,500
			3.5L EcoBoost	7150	2125	2898	2127	5025	3600	4150	3750	4150	3600	4150	892	19,400
			3.5L EcoBoost (Heavy Payload Pkg)	7850	2740	2969	2137	5106	3750	4800	3750	4800	3750	4800	770	19,400

Weight Unit: Pounds



F-150 MODEL LINEUP CREW CAB

Cab	WB (in.)	Drive	Engine	GVWR	Payload (Max) (1)	Base Curb Weight			GAWR (Max) (2)		Axle Rating (Max)		Spring Rating (Max)		ARC Wt (Max) (3)	GCWR (Max)	
						Front	Rear	Total	Front	Rear	Front	Rear	Front	Rear			
Crew Cab	145 6.5' Box	4x2	3.3L PFDI	6250	1785	2588	1877	4465	3225	3400	3225	3500	3225	3400	755	13,000	
			2.7L EcoBoost	6400	1815	2682	1902	4584	3375	3400	3450	3400	3375	3400	896	13,300	
			2.7L EcoBoost (Mid Payload Pkg)	6650	1960	2716	1973	4689	3375	3800	3525	4050	3450	3800	896	15,100	
			5.0L	6800	2135	2748	1913	4661	3450	3800	3525	3800	3450	3800	895	15,600	
			5.0L (Max Trailer Tow)	7050	2335	2748	1963	4711	3450	4150	3525	4150	3450	4150	845	18,100	
			3.5L EcoBoost	6750	2050	2717	1979	4696	3375	3800	3600	3800	3375	3800	927	16,500	
			3.5L EcoBoost (Max Trailer Tow)	7050	2300	2717	2029	4746	3375	4150	3600	4150	3375	4150	877	19,300	
			3.5L HEV	7350	2090	3058	2202	5260	3750	4150	3900	4150	3750	4150	848	18,400	
		3.0L Diesel	7050	2065	2898	2085	4983	3525	4050	3750	4050	3525	4050	884	17,700		
		4x4	3.3L PFDI	6470	1765	2809	1896	4705	3450	3400	3450	3400	3450	3400	786	13,300	
			2.7L EcoBoost	6600	1760	2916	1922	4838	3600	3400	3600	3400	3600	3400	842	13,300	
			2.7L EcoBoost (Mid Payload Pkg)	6900	1965	2937	1994	4931	3600	3800	3600	3800	3750	3800	903	15,400	
			5.0L	7050	2135	2976	1936	4912	3650	3800	3750	3800	3750	4150	939	18,400	
			3.5L EcoBoost	7050	2100	2944	2004	4948	3650	4150	3750	4150	3750	4150	934	19,400	
			3.5L HEV	7350	1830	3253	2264	5517	3900	4150	4000	4150	3900	4150	846	18,400	
			3.0L Diesel	7050	1805	3126	2117	5243	3900	4050	3900	4050	3900	4050	871	18,000	
	157 8' Box		4x2	2.7L EcoBoost	6450	1830	2756	1860	4616	3450	3400	3450	3400	3525	3400	902	13,300
		2.7L EcoBoost (Mid Payload Pkg)		6800	2085	2771	1944	4715	3500	3800	3525	4050	3525	3800	900	15,100	
		5.0L		6950	2235	2823	1889	4712	3525	4150	3525	4150	3525	4150	881	18,200	
		5.0L (Heavy Payload Pkg)		7850	2900	2879	2071	4950	3750	4800	3750	4800	3750	4800	795	18,400	
		3.5L EcoBoost		7000	2245	2798	1954	4752	3525	4150	3600	4150	3525	4150	931	19,400	
		3.5L EcoBoost (Heavy Payload Pkg)		7850	2880	2867	2100	4967	3750	4800	3750	4800	3750	4800	784	19,400	
		3.5L HEV		7350	2120	3098	2130	5228	3750	4150	3900	4150	3900	4150	940	18,400	
		3.0L Diesel		7050	2000	2984	2065	5049	3750	4050	3750	4050	3750	4050	888	17,800	
		4x4	5.0L	7150	2135	3098	1916	5014	3850	4150	3850	4150	3900	4150	870	18,400	
			5.0L (Heavy Payload Pkg)	7850	2650	3115	2084	5199	3750	4800	3750	4800	3750	4800	824	18,600	
			3.5L EcoBoost	7150	2155	3011	1984	4995	3750	4150	3750	4150	3750	4150	938	19,400	
			3.5L EcoBoost (Heavy Payload Pkg)	7850	2640	3099	2110	5209	3750	4800	3750	4800	3750	4800	813	19,500	
			3.5L HEV	7350	1810	3332	2208	5540	4050	4150	4050	4150	4050	4150	890	18,400	
			3.0L Diesel	7100	1805	3196	2096	5292	3900	4050	3900	4050	3900	4050	876	18,000	



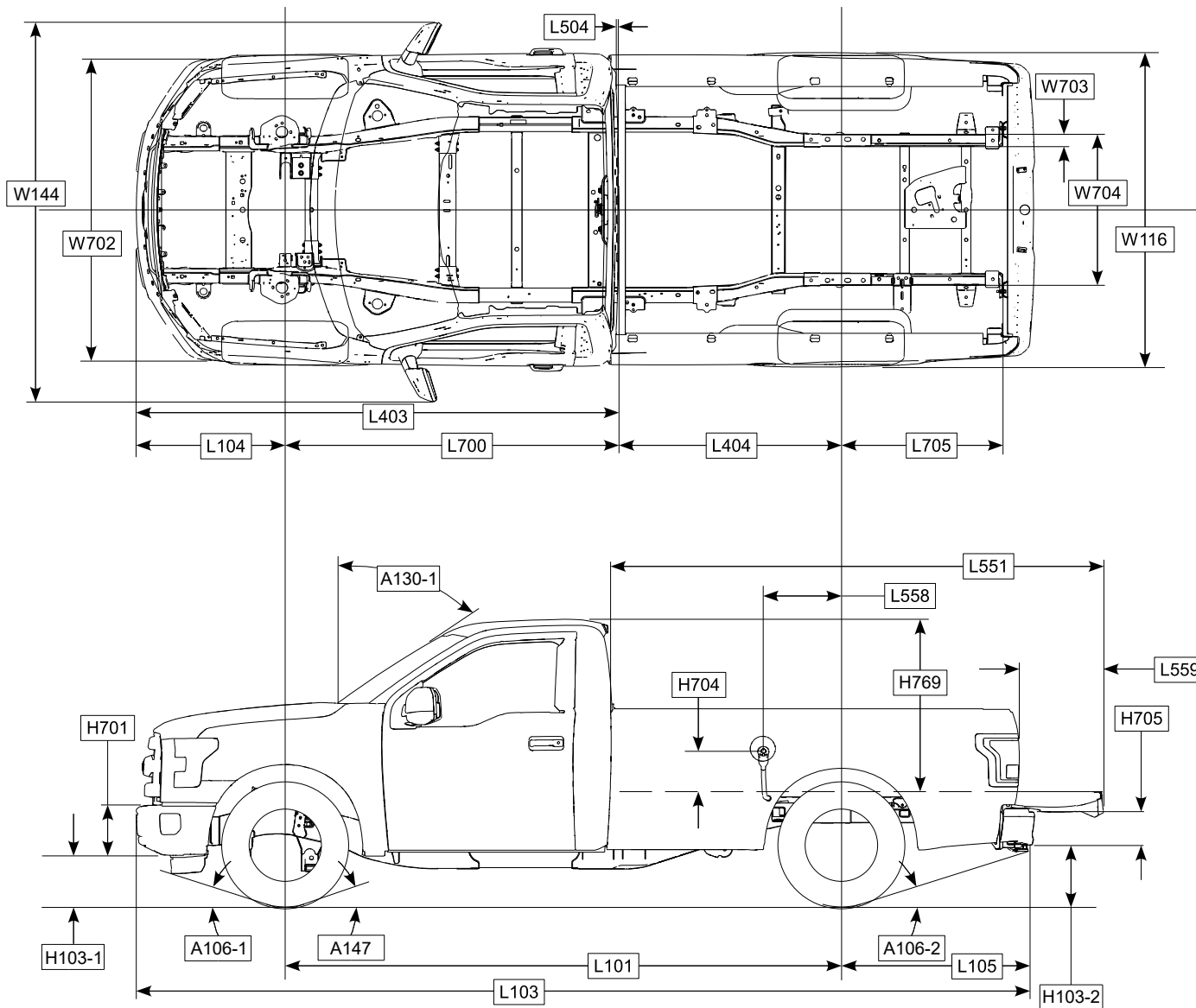
F-150 MODEL LINEUP FOOTNOTES

- 1) Payload rating represents the maximum allowable weight of passengers, cargo and body equipment, and is reduced by optional equipment weight.
- 2) Gross Axle Weight Rating (GAWR) is determined by the rated capacity of the minimum component of the axle system (axle, computer-selected springs, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR.
- 3) Accessory Reserve Capacity (ARC) Weight is the maximum allowable weight of aftermarket equipment for models with standard equipment and the engine/transmission combination indicated. This capacity is reduced by optional equipment weight.

NOTE: Optional Equipment Weights can be found in on the Ford BBAS website.

Navigate to: <https://fordbbas.com> under “Publications”, expand the “Vehicle Specifications” section and select the vehicle.

F-150 DIMENSIONAL DATA REGULAR CAB





Body Builders Layout Book

9

F-150

F-150 DIMENSIONAL DATA REGULAR CAB (Cont'd)

2021

MODEL YEAR

CHASSIS

CODE	DESCRIPTION	123" WB		142" WB	
		4x2	4x4	4x2	4x4
H103-1	BOTTOM OF FRONT BUMPER VALANCE TO GROUND @ CURB	259 [10.2]	285 [11.2]	250 [9.8]	294 [11.6]
H103-2	BOTTOM OF REAR BUMPER VALANCE TO GROUND @ CURB	462 [18.2]	508 [20.0]	461 [18.1]	506 [19.9]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	21.7	23.9	21.0	24.6
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TAKEN AT BOTTOM OF BUMPER)	23.9	26.2	23.9	26.1
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	20.8	23.5	18.3	21.0
L101	WHEELBASE	3120 [122.8]		3594 [141.5]	
L103	VEHICLE LENGTH	5310 [209.1]		5784 [227.7]	
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)		955 [37.6]		
L105	REAR OVERHANG		1235 [48.6]		
L403	FRONT OF BUMPER TO BACK OF CAB		3083 [121.4]		
L404	CAB TO C _L OF REAR AXLE	992 [39.1]		1466 [57.7]	
L700	C _L OF FRONT AXLE TO BACK OF CAB		2128 [83.8]		
L705	C _L OF REAR AXLE TO REAR END OF FRAME	1031 [40.6]		1031 [40.6]	
W703	FRAME RAIL WIDTH		72 [2.8]		
W704	REAR FRAME WIDTH		972 [38.3]		

Dimensions (unless otherwise stated): mm [inches]

PICKUP BODY

CODE	DESCRIPTION	123" WB	142" WB
NOMINAL CARGO BODY SIZE		6.5 FT	8 FT
H704	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO CL OF FUEL FILLER DOOR	301 [11.9]	
H705	REAR BUMPER HEIGHT	276 [10.9]	
H769	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO TOP OF CAB @ CL OF REAR AXLE	1130 [44.5]	
L504	CAB TO PICKUP BOX	16 [0.6]	
L551	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	2665 [104.9]	3139 [123.6]
L558	C _L OF REAR AXLE TO C _L OF FUEL FILLER DOOR	504 [19.8]	
L559	LENGTH OF OPEN TAILGATE	537 [21.1]	

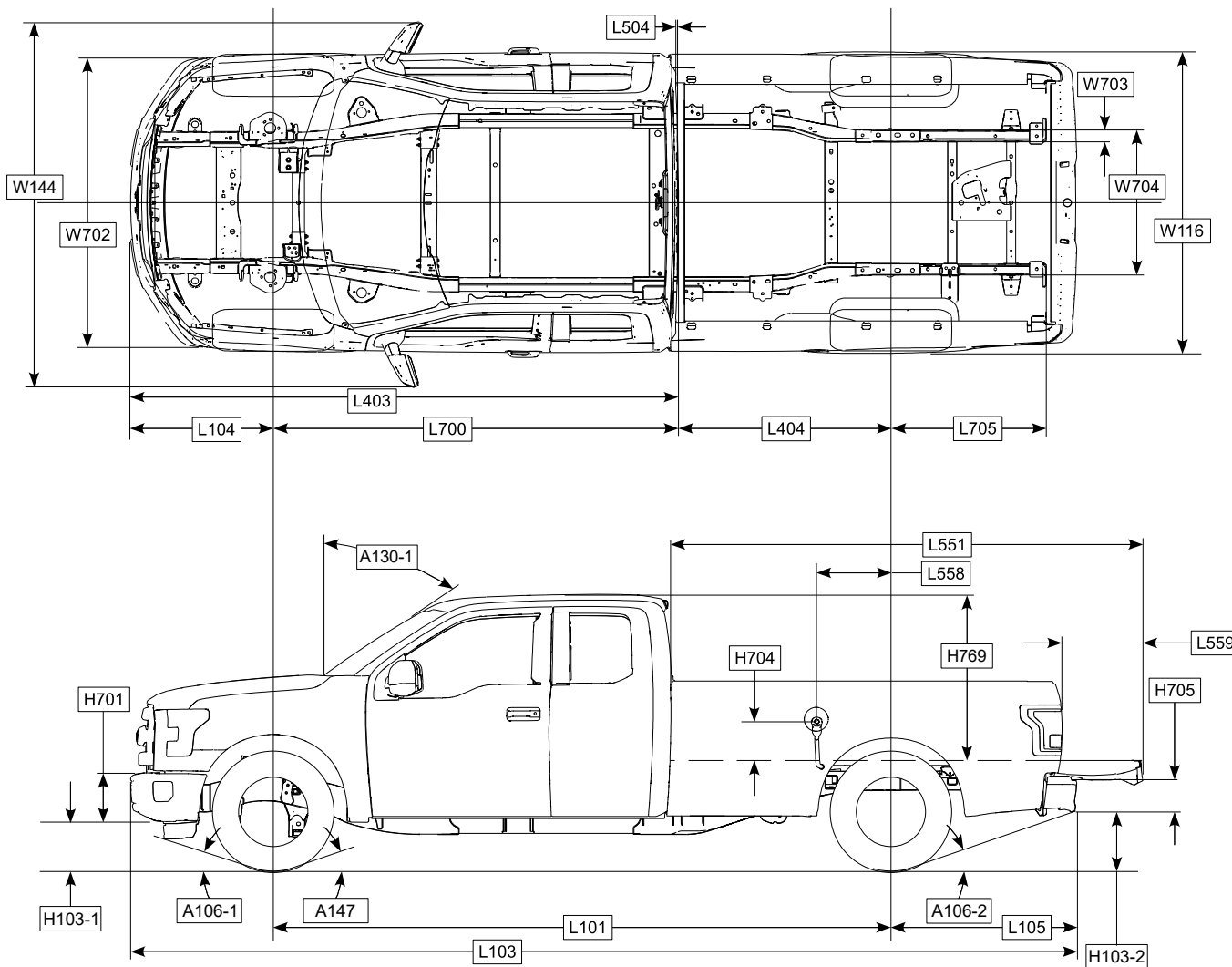
CAB*

CODE	DESCRIPTION	4x2	4x4
A130-1	WINDSHIELD ANGLE (DEGREES)	56.5	
H701	FRONT BUMPER HEIGHT W/ VALENCES	399 [15.7]	399 [15.7]
W116	VEHICLE BODY WIDTH (MAX W/O MIRRORS)	2030 [79.9]	
w144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2430 [95.7]	
w144	VEHICLE WIDTH (MAX W/ OPTIONAL TRAILER TOW MIRRORS)	2689 [105.9]	
W702	FRONT BUMPER WIDTH	1970 [77.6]	

*Common cab dimensions between 123" & 142" WB



F-150 DIMENSIONAL DATA SUPER CAB



F-150 DIMENSIONAL DATA SUPER CAB (Cont'd)

CHASSIS

CODE	DESCRIPTION	145" WB		164" WB	
		4x2	4x4	4x2	4x4
H103-1	BOTTOM OF FRONT BUMPER VALANCE TO GROUND @ CURB	256 [10.1]	295 [11.6]	253 [10.0]	299 [11.9]
H103-2	BOTTOM OF REAR BUMPER VALANCE TO GROUND @ CURB	445 [17.5]	492 [19.4]	461 [18.1]	496 [19.5]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	21.5	24.6	21.2	24.9
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TAKEN AT BOTTOM OF BUMPER)	23.2	25.4	23.9	25.6
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	17.6	20.2	16.0	18.2
L101	WHEELBASE	3694 [145.4]		4168 [164.1]	
L103	VEHICLE LENGTH	5884 [231.7]		6358 [250.3]	
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)		955 [37.6]		
L105	REAR OVERHANG		1235 [48.6]		
L403	FRONT OF BUMPER TO BACK OF CAB		3657 [144.0]		
L404	CAB TO C _L OF REAR AXLE	992 [39.1]		1466 [57.7]	
L700	C _L OF FRONT AXLE TO BACK OF CAB		2702 [106.4]		
L705	C _L OF REAR AXLE TO REAR END OF FRAME	1031 [40.6]		1031 [40.6]	
W703	FRAME RAIL WIDTH		72 [2.8]		
W704	REAR FRAME WIDTH		972 [38.3]		

Dimensions (unless otherwise stated): mm [inches]

PICKUP BODY

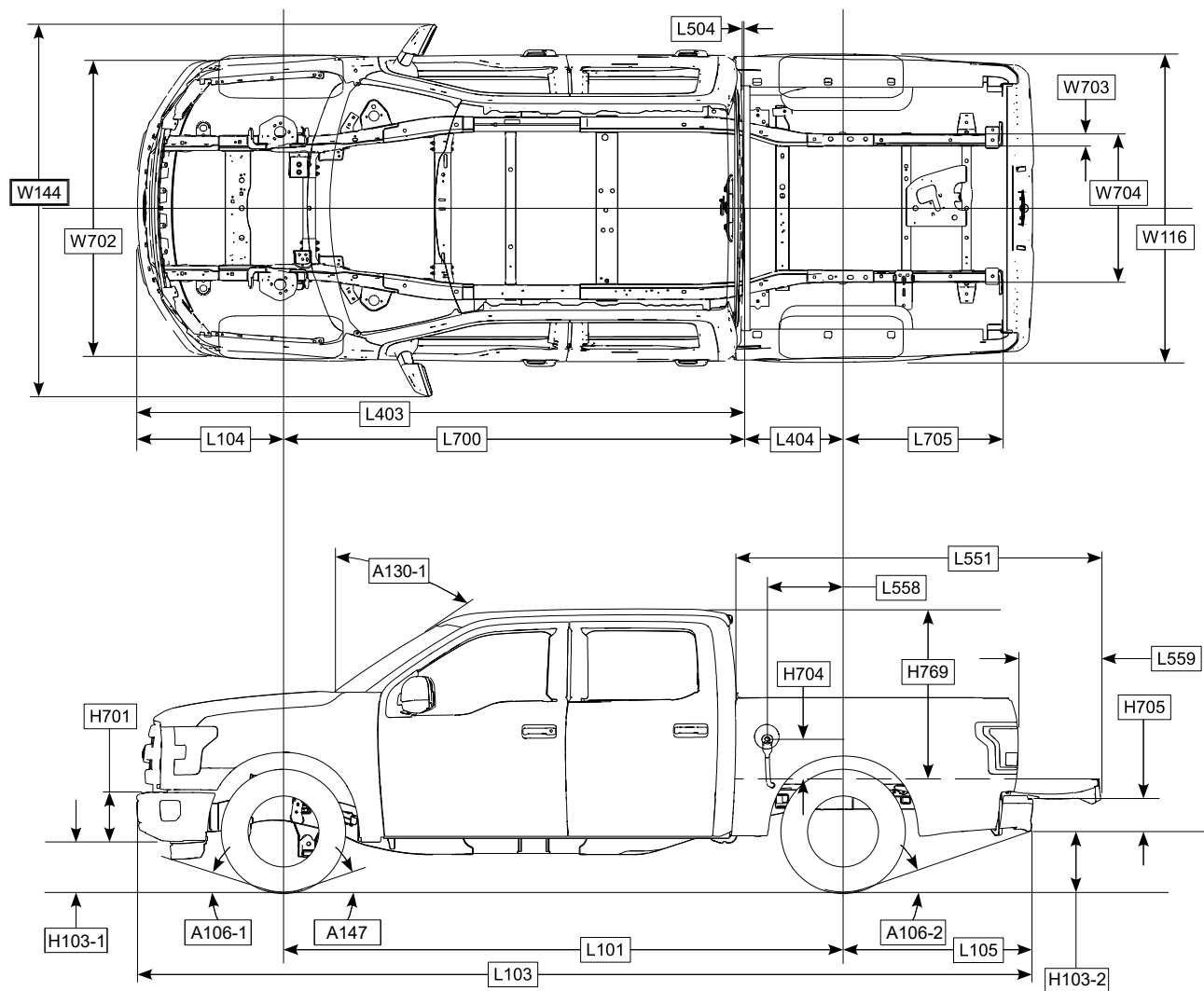
CODE	DESCRIPTION	145" WB	164" WB
		6.5 FT	8 FT
H704	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO CL OF FUEL FILLER DOOR	301 [11.9]	
H705	REAR BUMPER HEIGHT	276 [10.9]	
H769	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO TOP OF CAB @ CL OF REAR AXLE	1131 [44.5]	
L504	CAB TO PICKUP BOX	16 [0.6]	
L551	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	2665 [104.9]	3139 [123.6]
L558	C _L OF REAR AXLE TO C _L OF FUEL FILLER DOOR	504 [19.8]	
L559	LENGTH OF OPEN TAILGATE	537 [21.1]	

CAB*

CODE	DESCRIPTION	4x2	4x4
A130-1	WINDSHIELD ANGLE (DEGREES)	56.5	
H701	FRONT BUMPER HEIGHT W/ VALENCES	399 [15.7]	399 [15.7]
W116	VEHICLE BODY WIDTH (MAX W/O MIRRORS)	2030 [79.9]	
w144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2430 [95.7]	
w144	VEHICLE WIDTH (MAX W/ OPTIONAL TRAILER TOW MIRRORS)	2689 [105.9]	
W702	FRONT BUMPER WIDTH	1970 [77.6]	

*Common cab dimensions between 145" & 164" WB

F-150 DIMENSIONAL DATA SUPERCREW





Body Builders Layout Book

13

F-150

F-150 DIMENSIONAL DATA SUPERCREW (Cont'd)

2021

MODEL YEAR

CODE	DESCRIPTION	145" WB		157" WB	
		4x2	4x4	4x2	4x4
H103-1	BOTTOM OF FRONT BUMPER VALANCE TO GROUND @ CURB	260 [10.2]	291 [11.5]	250 [9.8]	299 [11.3]
H103-2	BOTTOM OF REAR BUMPER VALANCE TO GROUND @ CURB	440 [17.3]	488 [19.2]	461 [18.1]	510 [20.1]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	21.8	24.3	21.0	24.0
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TAKEN AT BOTTOM OF BUMPER)	22.9	25.3	23.9	26.3
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	17.6	20.0	16.6	19.0
L101	WHEELBASE	3694 [145.4]		3994 [157.2]	
L103	VEHICLE LENGTH	5884 [231.7]		6184 [243.5]	
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)	955 [37.6]			
L105	REAR OVERHANG	1235 [48.6]			
L403	FRONT OF BUMPER TO BACK OF CAB	3957 [155.8]			
L404	CAB TO C _L OF REAR AXLE	692 [27.2]		992 [39.1]	
L700	C _L OF FRONT AXLE TO BACK OF CAB	3002 [118.2]			
L705	C _L OF REAR AXLE TO REAR END OF FRAME	1031 [40.6]		1031 [40.6]	
W703	FRAME RAIL WIDTH	72 [2.8]			
W704	REAR FRAME WIDTH	972 [38.3]			

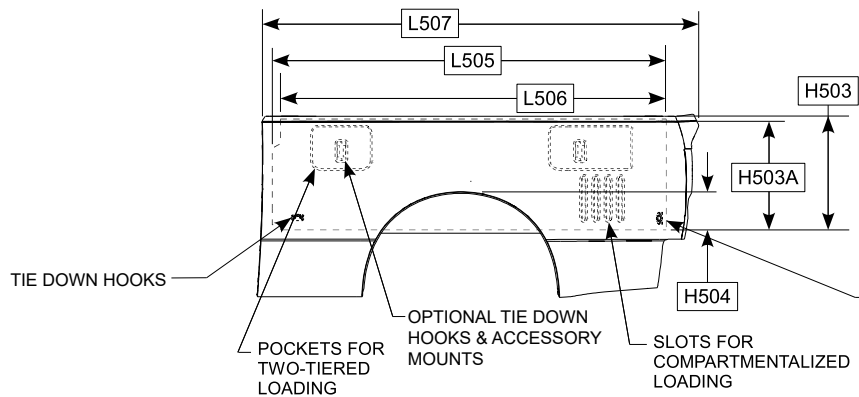
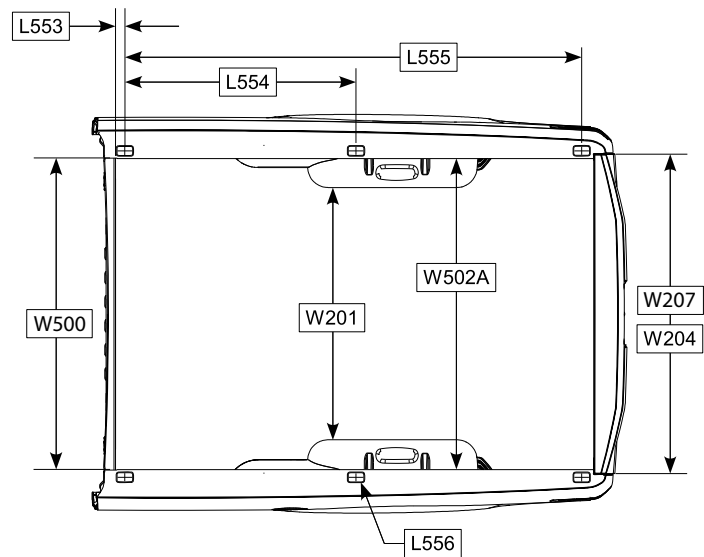
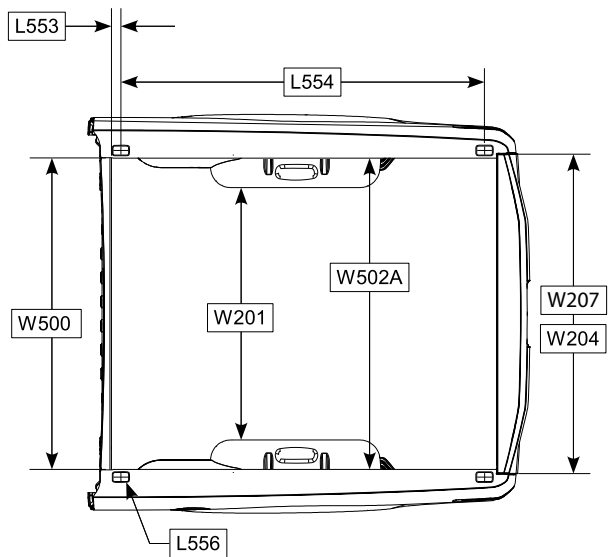
Dimensions (unless otherwise stated): mm [inches]

CODE	DESCRIPTION	145" WB	157" WB
		5.5 FT	6.5 FT
H704	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO CL OF FUEL FILLER DOOR	301 [11.9]	
H705	REAR BUMPER HEIGHT	276 [10.9]	
H769	TOP OF PICKUP BOX FLOOR (HIGHEST POINT) TO TOP OF CAB @ CL OF REAR AXLE	1130 [44.5]	
L504	CAB TO PICKUP BOX	16 [0.6]	
L551	BOX OVERALL LENGTH TO OPEN TAILGATE (MINIMUM)	2365 [93.1]	2665 [104.9]
L558	C _L OF REAR AXLE TO C _L OF FUEL FILLER DOOR	504 [19.8]	
L559	LENGTH OF OPEN TAILGATE	537 [21.1]	

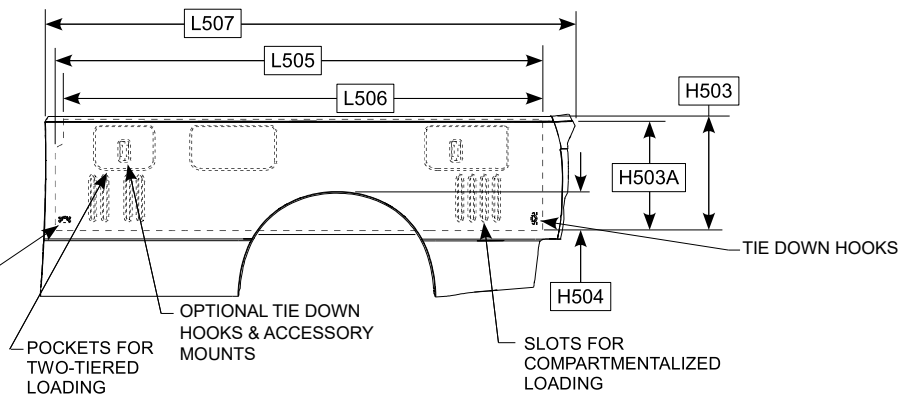
CODE	DESCRIPTION	4x2	4x4
A130-1	WINDSHIELD ANGLE (DEGREES)	56.5	
H701	FRONT BUMPER HEIGHT W/ VALENCES	399 [15.7]	399 [15.7]
W116	VEHICLE BODY WIDTH (MAX W/O MIRRORS)	2030 [79.9]	
W144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2430 [95.7]	
W144	VEHICLE WIDTH (MAX W/ OPTIONAL TRAILER TOW MIRRORS)	2689 [105.9]	
W702	FRONT BUMPER WIDTH	1970 [77.6]	

*Common cab dimensions between 145" & 157" WB

F-150 DIMENSIONAL DATA STYLESIDE PICKUP BOX



5.5 & 6.5 FT. BOX



8 FT. BOX



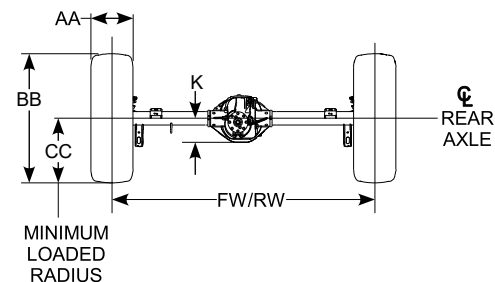
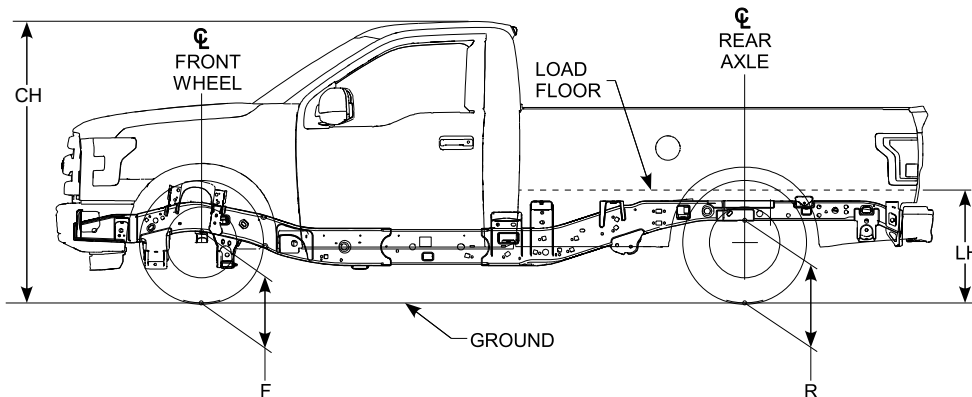
F-150 DIMENSIONAL DATA STYLESIDE PICKUP BOX (Cont'd)

PICKUP BOX

CODE	DESCRIPTION	5.5' STYLESIDE	6.5' STYLESIDE	8' STYLESIDE
H503	CARGO BODY HEIGHT W/ MOLDING	543 [21.4]	543 [21.4]	543 [21.4]
H503A	CARGO BODY HEIGHT WITHOUT MOLDING	534 [21.0]	534 [21.0]	534 [21.0]
H504	WHEELHOUSE HEIGHT	234 [9.2]	234 [9.2]	234 [9.2]
L505	CARGO BODY LENGTH @ FLOOR	1705 [67.1]	2005 [78.9]	2479 [97.6]
L506	CARGO BODY LENGTH @ TOP (BELT)	1662 [65.4]	1962 [77.2]	2436 [95.9]
L507	CARGO BODY OVERALL LENGTH (INCLUDES TAILGATE HANDLE BEZEL)	1977 [77.8]	2277 [49.6]	2751 [108.3]
L553	INSIDE FRONT OF BOX TO $\oslash$ OF STAKE #1	1597 [62.9]	48 [1.9]	48 [1.9]
L554	$\oslash$ OF STAKE #1 TO $\oslash$ OF STAKE #2	NA NA	1850 [72.8]	1176 [46.3]
L555	$\oslash$ OF STAKE #1 TO $\oslash$ OF STAKE #3	NA NA	NA NA	2324 [91.5]
L556	STAKE POCKET SIZE (L x W)	58 x 43 [2.3 x 1.7]	58 x 43 [2.3 x 1.7]	58 x 43 [2.3 x 1.7]
W201	CARGO WIDTH AT WHEELHOUSE	1297 [51.1]	1297 [51.1]	1297 [51.1]
W207	REAR OPENING WIDTH AT FLOOR	1531 [60.3]	1531 [60.3]	1531 [60.3]
W204	REAR OPENING WIDTH @ TOP (BELT)	1531 [60.3]	1531 [60.3]	1531 [60.3]
W500	CARGO BODY MAXIMUM INSIDE WIDTH @ FLOOR	1656 [65.2]	1656 [65.2]	1656 [65.2]
W502A	CARGO BODY MAXIMUM INSIDE WIDTH @ $\oslash$ OF REAR AXLE	1686 [66.4]	1686 [66.4]	1686 [66.4]
V5	CARGO VOLUME - LITERS [CU.FT.]	1495 [52.8]	1765 [62.3]	2191 [77.4]

Dimensions (unless otherwise stated): mm [inches]

AXLE / TIRE / VEHICLE HEIGHT DATA REGULAR CAB & SUPERCAB

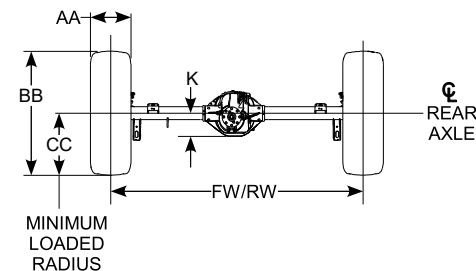
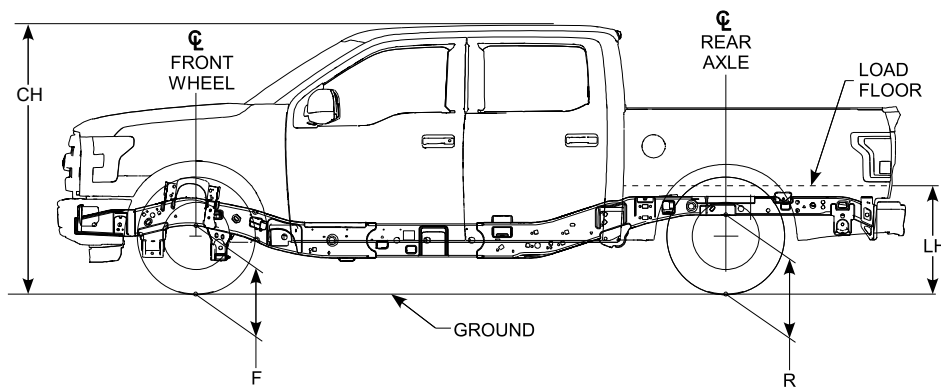


MODEL	WB (inches)	GVWR (pounds)	Base Tire	Units	"F" Height @ Front Wheel to Bottom of Frame ^{(1) (2)}		"R" Height @ Rear Wheel to Bottom of Frame ^{(1) (2)}		LH ^{(1) (2)}		CH ^{(1) (2)}		Units	K (8.8" Axle / 9.75" Axle)	AA (Section Width)	BB (Diameter)	CC (Static Load Radius)	FW	RW
					Height at Base Curb Wt.	Loaded Height @ Spring Rating	Height at Base Curb Wt.	Loaded Height @ Spring Rating	Empty	Loaded	Empty	Loaded							
F-150 Regular Cab 4x2	123	6050	245/70R17 110T A/S BSW	mm	473	429	620	510	845	713	1921	1837	mm	148 / 164	250	771	342	1725	1736
				inches	18.6	16.9	24.4	20.1	33.3	28.1	75.6	72.3	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3
	142	6100		mm	464	429	620	510	844	713	1911	1837	mm	148 / 164	250	771	342	1725	1736
				inches	18.3	16.9	24.4	20.1	33.2	28.1	75.2	72.3	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3
F-150 Regular Cab 4x4	123	6050	265/70R17 115T A/T OWL	mm	502	475	661	556	891	759	1957	1883	mm	148 / 164	268.9	796	350	1725	1736
				inches	19.8	18.7	26.0	21.9	35.1	29.9	77.0	74.1	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3
	142	6325		mm	508	473	665	556	890	760	1955	1882	mm	148 / 164	268.9	796	350	1725	1736
				inches	20.0	18.6	26.2	21.9	35.0	29.9	77.0	74.1	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3
F-150 SuperCab 4x2	145	6250	245/70R17 110T A/S BSW	mm	467	427	609	510	829	713	1917	1838	mm	148 / 164	250	771	342	1725	1736
				inches	18.4	16.8	24.0	20.1	32.6	28.1	75.5	72.4	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3
	164	7000		mm	464	424	623	504	845	706	1919	1832	mm	148 / 164	250	771	342	1725	1736
				inches	18.3	16.7	24.5	19.8	33.3	27.8	75.6	72.1	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3
F-150 SuperCab 4x4	145	6480	265/70R17 115T A/T OWL	mm	506	472	654	556	875	760	1960	1884	mm	148 / 164	268.9	796	350	1725	1736
				inches	19.9	18.6	25.7	21.9	34.4	29.9	77.2	74.2	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3
	164	7000		mm	509	469	660	550	880	753	1959	1878	mm	148 / 164	268.9	796	350	1725	1736
				inches	20.0	18.5	26.0	21.7	34.6	29.6	77.1	73.9	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3

(1) The Height Data shown represents dimensions of a base/standard vehicle with no options. Actual height may vary due to production tolerances.

(2) Vehicle ride heights are given at tire minimum loaded radius.

AXLE / TIRE / VEHICLE HEIGHT DATA SUPERCREW



MODEL	WB (inches)	GVWR (pounds)	Base Tire	Units	"F" Height @ Front Wheel to Bottom of Frame ^{(1) (2)}		"R" Height @ Rear Wheel to Bottom of Frame ^{(1) (2)}		LH ^{(1) (2)}		CH ^{(1) (2)}		Units	K (8.8" Axle / 9.75" Axle)	AA (Section Width)	BB (Diameter)	CC (Static Load Radius)	FW	RW
					Height at Base Curb Wt.	Loaded Height @ Spring Rating	Height at Base Curb Wt.	Loaded Height @ Spring Rating	Empty	Loaded	Empty	Loaded							
F-150 Crew Cab 4x2	145	6250	245/70R17 110T A/S BSW	mm	469	426	606	510	824	713	1920	1838	mm	148 / 164	250	771	342	1725	1736
	157	inches		18.5	16.8	23.9	20.1	32.4	28.1	75.6	72.4	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3	
		mm		462	425	621	504	844	706	1962	1833	mm	148 / 164	250	771	342	1725	1736	
		inches		18.2	16.7	24.4	19.8	33.2	27.8	77.2	72.2	inches	5.8 / 6.5	9.8	30.4	13.5	67.9	68.3	
F-150 Crew Cab 4x4	145	6470	265/70R17 115T A/T OWL	mm	502	472	650	556	872	760	1925	1884	mm	148 / 164	268.9	796	350	1725	1736
				inches	19.8	18.6	25.6	21.9	34.3	29.9	75.8	74.2	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3
	157	7050		mm	501	468	669	550	894	753	1970	1878	mm	148 / 164	268.9	796	350	1725	1736
				inches	19.7	18.4	26.3	21.7	35.2	29.6	77.6	73.9	inches	5.8 / 6.5	10.6	31.3	13.8	67.9	68.3

(1) The Height Data shown represents dimensions of a base/standard vehicle with no options. Actual height may vary due to production tolerances.

(2) Vehicle ride heights are given at tire minimum loaded radius.



Axle size can be found on
label on the axle tube
(for dimension K in the table).


TIRE DATA
TIRE & WHEEL DATA

Tire Size / Description	Rim Width (in.)	Section Width (mm)	Static Loaded Radius (mm)	Diameter (mm)
245/70R17 110T A/S BSW (4x2 Base Tire)	7.5	250	342.2	771
265/70R17 115T A/T OWL (4x4 Base Tire)	7.5	268.9	350.4	795.6
265/60R18 110T A/S BSW	7.5 & 8.5	268.7	344.2	772
275/65R18 116T A/T OWL	7.5 & 8.5	285	361.9	816.6
275/60R20 115T A/S BSW	8.5	289.2	379.9	844.3
275/60R20 115T A/T OWL	8.5	274.2	368.2	835
275/60R20 115T A/T BSW	8.5	282.1	374.7	834.9
275/50R22 111T A/S BSW	8.5	277.1	380.7	841.9
LT265/70R17C 112/109S A/T BSW	7.5	273.2	369.2	805.6
LT265/70R18C 113/110S A/T OWL	7.5 & 8.5	267.5	383.2	836.8

WHEEL DATA

Wheel Type / Description	Wheel Size (in.)	Inset (in./mm)	No. of Studs	Bolt Circle (in./mm)	Max. Wheel Capacity Load Front / Rear (lbs)
Silver Steel (HeavyDuty Payload Package)	17 x 7.5	1.73 / 44	6	5.3 / 135	2022 / 2275
Silver Steel	17 x 7.5	1.73 / 44	6	5.3 / 135	1825 / 2025
Silverpainted Aluminum	17 x 7.5	1.73 / 44	6	5.3 / 135	1825 / 2028
6spoke Machined Aluminum	18 x 7.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Silver Aluminum (HeavyDuty Payload Package)	18 x 7.5	1.73 / 44	6	5.3 / 135	1991 / 2275
Machined Aluminum	18 x 7.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Chromelike PVD	18 x 7.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Machined Aluminum w / Painted Pockets	20 x 8.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Aluminum	20 x 8.5	1.73 / 44	6	5.3 / 135	1825 / 2028
6spoke Premium Painted Aluminum	20 x 8.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Chromelike PVD Aluminum	20 x 8.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Polished Aluminum	20 x 8.5	1.73 / 44	6	5.3 / 135	1825 / 2028
Polished Aluminum	22 x 9.0	1.73 / 44	6	5.3 / 135	1825 / 2028

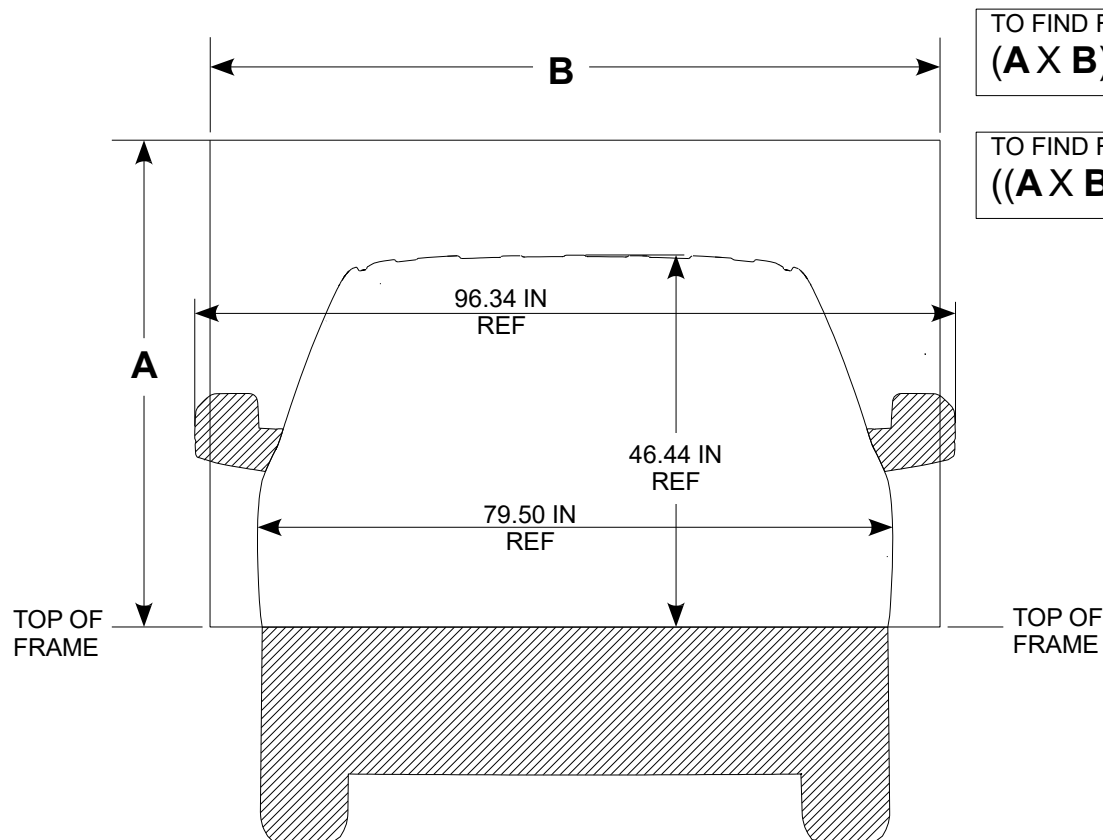


FRONTAL SURFACE AREA WORKSHEET

2020 Data shown
(2021 Data Pending)

A = BOX HEIGHT IN INCHES

B = BOX WIDTH IN INCHES



TO FIND FRONT SURFACE AREA IN SQ INCHES
(A X B) + 1785.6 =

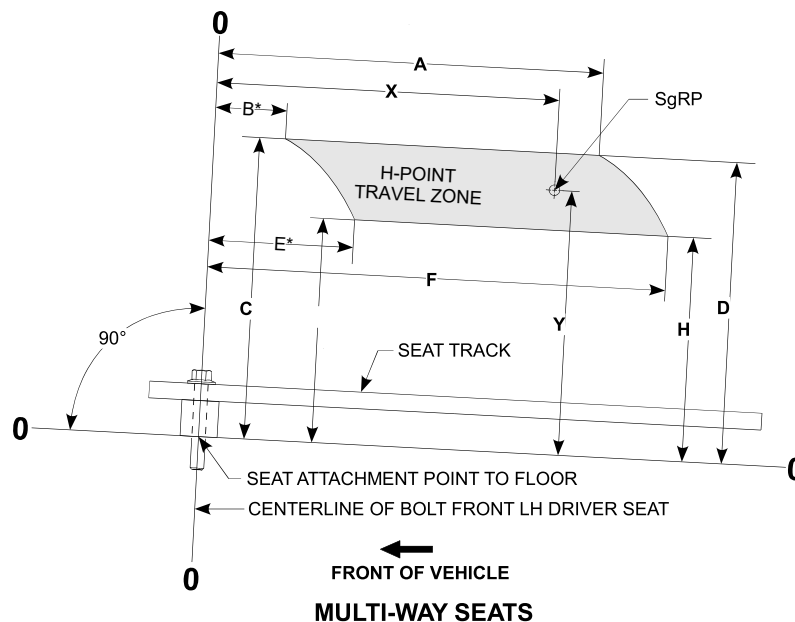
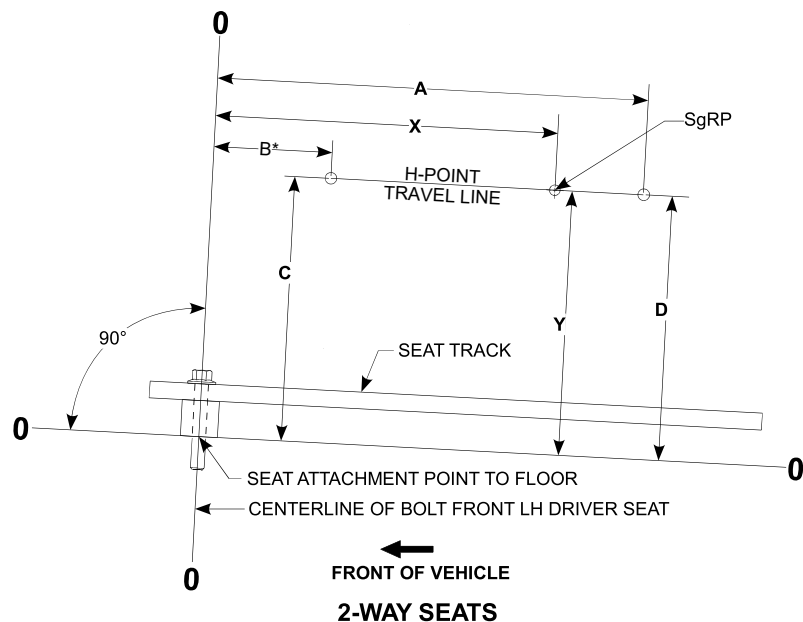
TO FIND FRONT SURFACE AREA IN SQ FEET
((A X B) / 144) + 12.40 =

BELOW FRAME SHADED AREA EQUALS
 $1050376.4 / (25.4 \times 25.4) = 1628.0868 \text{ SQ. IN.}$
 $1628.0868 / (12 \times 12) = 11.3062 \text{ SQ. FT.}$

MIRROR SHADED AREA EQUALS
 $(50822.9 \times 2) / (25.4 \times 25.4) = 157.5513 \text{ SQ. IN.}$
 $157.5513 / (12 \times 12) = 1.0941 \text{ SQ. FT.}$

TOTAL SHADED AREA EQUALS
 $1152022.2 / (25.4 \times 25.4) = 1785.6379 \text{ SQ. IN.}$
 $1785.6379 / (12 \times 12) = 12.4002 \text{ SQ. FT.}$

F-150 Seat Track & H-Point Data



Seat Dimensional Data											
Seat Combinations		Seat Dimensions mm [inches]								SgRP Location mm	
Driver	Passenger	A	B *	C	D	E *	F	G	H	X	Y
2-Way	2-Way	393 [15.5]	138 [5.4]	318 [12.5]	307 [12.0]					317 [12.5]	311 [12.2]
8-Way **	2-Way	354 [13.9]	98 [3.9]	350 [13.8]	339 [13.3]	158 [6.2]	413 [16.3]	287 [11.3]	276 [10.9]	317 [12.5]	311 [12.2]
10-Way	10-Way	354 [13.9]	98 [3.9]	350 [13.8]	339 [13.3]	158 [6.2]	413 [16.3]	287 [11.3]	276 [10.9]	317 [12.5]	311 [12.2]

Seat Track Angle to (Horizontal) Top of Frame = 2.5°

* Add 10mm to dimension shown for Passenger Seat only.

** 8-way seat available on Driver's Side only (comes with 2-way Seat on Passenger Side).

Ford Co-Pilot360™ is a suite of driver-assist technology features that variously utilize a radar and/or camera system. The radar and camera systems help provide Ford Co-Pilot360 features such as:

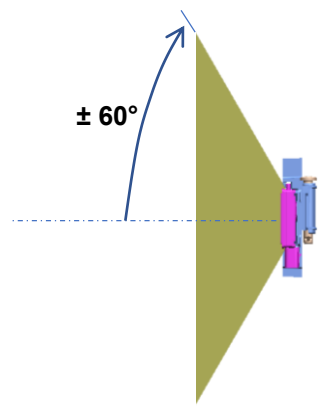
- Pre-Collision Assist with Automatic Emergency Braking (AEB)
- Forward Collision Warning
- Audible Lane Departure Warning
- Automatic High Beam
- Adaptive Cruise Control with Stop-and-Go
- BLIS® (Blind Spot Information System) with cross-traffic alert and trailer-tow monitoring

Installed upfitter equipment should not infringe on the radar or camera view zones. The CAD files of the radar and camera view zones are available upon request via the Ford BBAS web site ([www.fordbbas.com/contactus](https://fordbbas.com/contactus)).

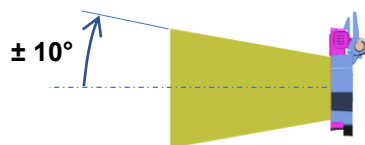
Consult the Order Guide for feature availability by vehicle model.

Radar View Zone

CAD File: ML3T-9G853-A



Radar Plan View

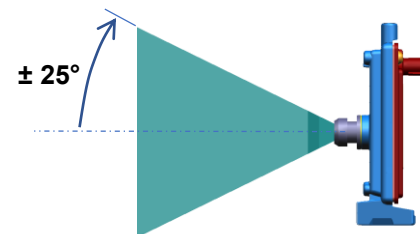


Radar Side View

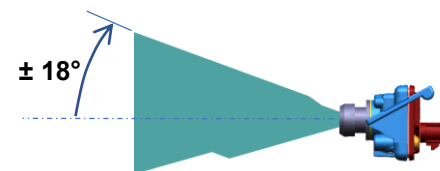
19.03.01

Camera View Zone

CAD File: ML3T-19H406-A



Camera Plan View



Camera Side View

19.04.02



2021
MODEL YEAR

[\(Return to Index Page\)](#)