



TRANSIT WHAT'S NEW

- All-Electric E-Transit has been added to the program and is available on Cargo Van (W1Y, W9C, W1X, W3X), Cutaway (W5P) and Chassis Cab (W5Z)
- 75-mph Governed Top Speed is standard on E-Transit Cutaway and Chassis Cab
- Revised Weights and Model Lineup
- Updated Center of Gravity Reference info from IVM
- Updated California GHG emissions data
- New 3-Across, 'Dual-passenger', seating packages (212, 213, 216 and 217) with Small Center Console is available on Cargo Van, Cutaway and Chassis Cab
- New Bulkhead option is available for Crew Van (47V)
- Updated California GHG emissions data
- New Telematics Essentials, a complimentary version of Ford Telematics, is standard on all models
- New Auxiliary Fuel Port Extension Line (63F) is optional on long and extended length Cargo Van
- New Automatic Engine Idle Shutdown are available for Fleets – 5 Minute Timer (55E), 10 Minute Timer (55F), 15 Minute Timer (55G) and 20 Minute Timer (55H)
- RV Prep Package and Motorhome Prep Package now offers SYNC 4 with SiriusXM® with 360L, HD Radio™, Navigation, Intelligent Adaptive Cruise Control (iACC) and 12" Display (58F) as the standard audio package

* Please see the Order Guide for all options availability and changes



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WARNING:

During the production and servicing of these vehicles, due care should be taken to avoid damaging of safety or emissions related systems such as the braking system, 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, people standing near/on unprotected systems while performing other tasks.



TRANSIT Introduction

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 to 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



TRANSIT MODEL LINEUP PASSENGER VANS

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Regular 130	Low 83.6	150 (SRW)	8550	3.5L PFDI	RWD	4130	5070	2918	1399	3047	2584	5631
					AWD	4380	5070	2722	1203	3240	2587	5827
	Medium 100.8	150 (SRW)	8550	3.5L PFDI	RWD	4130	5070	2734	1215	3085	2730	5815
					AWD	4380	5070	2538	1019	3279	2733	6011
Long 148	Low 83.6	350 (SRW)	9250	3.5L PFDI	RWD	4130	5780	3226	1407	3213	2810	6023
					AWD	4465	5780	3019	1200	3410	2820	6230
				3.5L EcoBoost	RWD	4130	5780	3144	1325	3279	2826	6105
					AWD	4465	5780	2940	1121	3474	2835	6309
			9400	3.5L PFDI	RWD	4130	5780	3376	1107	3213	2810	6023
					RWD	4130	5780	3294	1025	3279	2826	6105
				3.5L EcoBoost	RWD	4130	5780	3294	1025	3279	2826	6105
					AWD	4465	5830	3319	1050	3410	2820	6230
			9550	3.5L PFDI	AWD	4465	5830	3319	1050	3410	2820	6230
					AWD	4465	5830	3240	971	3474	2835	6309
				3.5L EcoBoost	AWD	4465	5830	3240	971	3474	2835	6309
					AWD	4465	5830	3107	838	3516	2927	6442
	Medium 100.8	350 (SRW)	9250	3.5L PFDI	RWD	4130	5780	3097	1278	3252	2900	6152
					AWD	4465	5780	2890	1071	3449	2911	6359
				3.5L EcoBoost	RWD	4130	5780	3015	1195	3317	2918	6235
					AWD	4465	5780	2810	991	3511	2928	6439
			9400	3.5L PFDI	RWD	4130	5780	3240	971	3258	2902	6159
					RWD	4130	5780	3161	892	3321	2917	6238
				3.5L EcoBoost	RWD	4130	5780	3161	892	3321	2917	6238
					AWD	4465	5830	3183	914	3454	2912	6366
			9550	3.5L PFDI	AWD	4465	5830	3183	914	3454	2912	6366
					AWD	4465	5830	3107	838	3516	2927	6442
				3.5L EcoBoost	AWD	4465	5830	3107	838	3516	2927	6442
					AWD	4465	5830	2965	695	3517	3068	6585
Extended 148	High 110.1	351 HD (DRW)	10360	3.5L PFDI	RWD	4130	6725	3494	1076	3093	3772	6865
					RWD	4130	6725	3412	993	3159	3789	6948
				3.5L EcoBoost	RWD	4130	6725	3412	993	3159	3789	6948
					AWD	4465	6725	3184	766	3353	3822	7175
				3.5L PFDI	RWD	4130	6725	3494	1076	3093	3772	6865
					RWD	4130	6725	3412	993	3159	3789	6948



TRANSIT MODEL LINEUP

CARGO & CREW VANS RWB

CARGO VANS

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Regular 130	Low 83.6	150 (SRW)	8670	3.5L PFDI	RWD	4130	5070	3685	2576	2923	2061	4985
					AWD	4630	5070	3489	2380	3117	2064	5181
				3.5L EcoBoost	RWD	4130	5070	3603	2495	2989	2078	5066
				3.5L PFDI	RWD	4130	5515	4085	2576	2923	2061	4985
					AWD	4630	5515	3889	2380	3117	2064	5181
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	4003	2495	2989	2078	5066
					AWD	4630	5515	3805	2296	3184	2081	5265
				3.5L EcoBoost	RWD	4130	6000	3880	1942	2891	2729	5619
		350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	4515	2576	2923	2061	4985
					AWD	4630	5750	4319	2380	3117	2064	5181
				3.5L EcoBoost	RWD	4130	5750	4433	2495	2989	2078	5066
	Medium 100.8	150 (SRW)	8670	3.5L PFDI	RWD	4130	5070	4235	2296	3184	2081	5265
					AWD	4130	5070	3555	2446	2947	2167	5115
				3.5L EcoBoost	RWD	4130	5070	3359	2250	3141	2170	5311
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5070	3468	2360	3018	2183	5201
					AWD	4630	5070	3269	2161	3213	2187	5400
				3.5L EcoBoost	RWD	4130	5515	3955	2446	2947	2167	5115
		350 (SRW)	9500	3.5L PFDI	RWD	4130	5515	3759	2250	3141	2170	5311
					AWD	4130	5515	3868	2360	3018	2183	5201
				3.5L EcoBoost	RWD	4130	5515	3670	2161	3213	2187	5400
		350 (SRW)	9500	3.5L PFDI	RWD	4130	6000	3750	1812	2915	2835	5749
					AWD	4130	6000	4385	2446	2947	2167	5115
				3.5L EcoBoost	RWD	4130	5750	4189	2250	3141	2170	5311

CREW VANS

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Regular 130	Low 83.6	150 (SRW)	8670	3.5L PFDI	RWD	4130	5515	3362	2253	3051	2257	5308
					AWD	4630	5515	3166	2057	3244	2259	5504
				3.5L EcoBoost	RWD	4130	5515	3280	2172	3116	2273	5389
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	3082	1973	3312	2276	5588
					AWD	4630	5515	3762	2253	3051	2257	5308
				3.5L EcoBoost	RWD	4130	5750	3566	2057	3244	2259	5504
		350 (SRW)	9250	3.5L PFDI	RWD	4130	5750	3680	2172	3116	2273	5389
					AWD	4630	5750	3482	1973	3312	2276	5588
				3.5L EcoBoost	RWD	4130	5750	3942	2253	3051	2257	5308
	Medium 100.8	150 (SRW)	8670	3.5L PFDI	RWD	4130	5750	3746	2057	3244	2259	5504
					AWD	4630	5750	3860	2172	3116	2273	5389
				3.5L EcoBoost	RWD	4130	5750	3662	1973	3312	2276	5588
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	3232	2123	3075	2363	5438
					AWD	4630	5515	3036	1927	3268	2365	5634
				3.5L EcoBoost	RWD	4130	5515	3145	2037	3146	2379	5524
		350 (SRW)	9250	3.5L PFDI	RWD	4130	5515	2947	1838	3341	2382	5723
					AWD	4630	5515	3632	2123	3075	2363	5438
				3.5L EcoBoost	RWD	4630	5750	3436	1927	3268	2365	5634
		350 (SRW)	9250	3.5L PFDI	RWD	4130	5750	3546	2037	3146	2378	5524
					AWD	4630	5750	3347	1838	3341	2382	5723
				3.5L EcoBoost	RWD	4130	5750	3812	2123	3075	2363	5438



TRANSIT MODEL LINEUP CREW VANS LWB

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Long 148	Low 83.6	150 (SRW)	8670	3.5L PFDI	RWD	4130	5070	3111	2003	3202	2356	5558
					AWD	4130	5070	3259	2151	3166	2244	5410
				3.5L EcoBoost	RWD	4630	5070	2904	1796	3399	2366	5765
					AWD	4630	5070	3052	1944	3363	2254	5617
		250 (SRW)	9070	3.5L PFDI	RWD	4630	5070	3038	1929	3266	2366	5632
					AWD	4630	5070	3185	2076	3232	2253	5485
				3.5L EcoBoost	RWD	4630	5070	2825	1716	3462	2382	5845
					AWD	4630	5070	2972	1863	3428	2269	5698
		350 (SRW)	9500	3.5L PFDI	RWD	4130	5515	3511	2003	3202	2356	5558
					AWD	4130	5515	3659	2151	3166	2244	5410
				3.5L EcoBoost	RWD	4130	5515	3416	1908	3228	2425	5653
					AWD	4630	5515	3304	1796	3399	2366	5765
	Medium 100.8	150 (SRW)	8670	3.5L PFDI	RWD	4630	5515	3452	1944	3363	2254	5617
					AWD	4630	5515	3209	1701	3425	2435	5860
				3.5L EcoBoost	RWD	4630	5515	3438	1929	3266	2366	5632
					AWD	4630	5515	3584	2075	3231	2255	5486
		250 (SRW)	9070	3.5L PFDI	RWD	4630	5515	3343	1834	3294	2433	5727
					AWD	4630	5515	3225	1716	3462	2382	5845
				3.5L EcoBoost	RWD	4630	5515	3371	1862	3427	2271	5699
					AWD	4630	5515	3130	1621	3490	2449	5940
		350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	3941	2003	3202	2356	5558
					AWD	4130	5750	4089	2151	3166	2244	5410
				3.5L EcoBoost	RWD	4130	5750	3846	1908	3228	2425	5653
					AWD	4630	5750	3734	1796	3399	2366	5765
	High 110.1	250 (SRW)	9070	3.5L PFDI	RWD	4630	5750	3882	1944	3363	2254	5617
					AWD	4630	5750	3639	1701	3425	2435	5860
				3.5L EcoBoost	RWD	4630	5750	3868	1929	3266	2366	5632
					AWD	4630	5750	4023	2084	3232	2245	5477
		350 (SRW)	9500	3.5L PFDI	RWD	4630	5750	3779	1840	3294	2427	5721
					AWD	4630	5750	3655	1716	3462	2382	5845
				3.5L EcoBoost	RWD	4630	5750	3810	1871	3428	2261	5690
					AWD	4630	5750	3566	1627	3490	2443	5934



**TRANSIT
MODEL LINEUP
CREW VANS ELWB**

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Extended 148	High 110.1	350 HD (DRW)	9900	3.5L PFDI	RWD	4130	6835	3834	1495	3097	2969	6066
					AWD	4630	6835	3604	1265	3294	3002	6296
			9950	3.5L PFDI	RWD	4130	6835	3884	1495	3097	2969	6066
					AWD	4630	6835	3654	1265	3294	3002	6296
				3.5L EcoBoost	RWD	4630	6835	3786	1398	3158	3005	6163
					AWD	4630	6835	3574	1185	3354	3022	6376
			10360	3.5L PFDI	RWD	4130	7275	4294	1875	3097	2969	6066
					RWD	4630	7275	4196	1778	3158	3005	6163
				3.5L EcoBoost	RWD	4630	7275	3984	1565	3354	3022	6376
					AWD	4630	7275	3984	1565	3354	3022	6376



TRANSIT MODEL LINEUP CARGO VANS LWB

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Long 148	Low 83.6	150 (SRW)	8670	3.5L PFDI	RWD	4130	5070	3582	2474	3015	2072	5087
					AWD	4630	5070	3375	2267	3211	2083	5294
				3.5L EcoBoost	RWD	4130	5070	3499	2390	3082	2088	5171
					AWD	4630	5070	3295	2186	3277	2098	5375
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	3982	2474	3015	2072	5087
					AWD	4630	5515	3775	2267	3211	2083	5294
				3.5L EcoBoost	RWD	4130	5515	3898	2389	3081	2090	5172
					AWD	4630	5515	3694	2185	3276	2100	5376
		350 (SRW)	9500	BEV	RWD	4130	6000	3776	1838	3041	2683	5723
				3.5L PFDI	RWD	4130	5750	4412	2474	3015	2072	5087
					AWD	4630	5750	4205	2267	3211	2083	5294
				3.5L EcoBoost	RWD	4630	5750	4346	2407	3081	2073	5154
					AWD	4630	5750	4133	2194	3277	2090	5367
	Medium 100.8	150 (SRW)	8670	3.5L PFDI	RWD	4130	5070	3434	2326	3051	2184	5235
					AWD	4630	5070	3227	2119	3247	2195	5442
				3.5L EcoBoost	RWD	4130	5070	3352	2243	3116	2201	5318
					AWD	4630	5070	3148	2039	3311	2211	5522
		250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	3834	2326	3051	2184	5235
					AWD	4630	5515	3627	2119	3247	2195	5442
				3.5L EcoBoost	RWD	4130	5515	3752	2243	3116	2201	5318
					AWD	4630	5515	3548	2039	3311	2211	5522
		350 (SRW)	9500	BEV	RWD	4130	6000	3628	1690	3077	2795	5871
				3.5L PFDI	RWD	4130	5750	4264	2326	3051	2184	5235
					AWD	4630	5750	4057	2119	3247	2195	5442
				3.5L EcoBoost	RWD	4630	5750	4191	2252	3115	2194	5309
					AWD	4630	5750	3978	2039	3311	2211	5522
	High 110.1	250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	3739	2231	3077	2253	5330
					AWD	4630	5515	3532	2024	3273	2264	5537
				3.5L EcoBoost	RWD	4130	5515	3657	2148	3144	2268	5413
					AWD	4630	5515	3453	1944	3339	2278	5617
		350 (SRW)	9500	BEV	RWD	4130	6000	3533	1595	3103	2864	5966
				3.5L PFDI	RWD	4130	5750	4169	2231	3077	2253	5330
					AWD	4630	5750	3962	2024	3273	2264	5537
				3.5L EcoBoost	RWD	4630	5750	4102	2163	3143	2255	5398
					AWD	4630	5750	3889	1950	3339	2272	5611



TRANSIT MODEL LINEUP CARGO VANS ELWB

Wheelbase (in)	Roof Height (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
						Front	Rear			Front	Rear	Total
Extended 148	High 110.1	250 (SRW)	9070	3.5L PFDI	RWD	4130	5660	3536	2028	2939	2594	5533
					AWD	4630	5660	3329	1821	3135	2605	5740
				3.5L EcoBoost	RWD	4130	5660	3455	1946	3000	2614	5615
					AWD	4630	5660	3251	1742	3195	2624	5819
		350 (SRW)	9500	BEV	RWD	4130	6000	3330	1392	2886	3283	6169
				3.5L PFDI	RWD	4130	6000	3966	2028	2939	2594	5533
					AWD	4630	6000	3759	1821	3135	2605	5740
				3.5L EcoBoost	RWD	4130	6000	3885	1946	3000	2614	5615
					AWD	4630	6000	3681	1742	3195	2624	5819
		350 HD (DRW)	9900	3.5L PFDI	RWD	4130	6835	4157	1818	2946	2797	5743
					AWD	4630	6835	3927	1588	3142	2830	5973
			9950	3.5L PFDI	RWD	4130	6835	4207	1818	2946	2797	5743
					AWD	4630	6835	3977	1588	3142	2830	5973
				3.5L EcoBoost	RWD	4130	6835	4124	1735	3008	2817	5826
					AWD	4630	6835	3897	1508	3203	2850	6053
			10360	3.5L PFDI	RWD	4130	7275	4617	2198	2946	2797	5743
				3.5L EcoBoost	RWD	4130	7275	4534	2115	3008	2817	5826
					AWD	4630	7275	4307	1888	3203	2850	6053
			11000	3.5L EcoBoost	RWD	4630	7700	5174	2115	3008	2817	5826
					AWD	4630	7700	4947	1888	3203	2850	6053



TRANSIT MODEL LINEUP CHASSIS CAB

Wheelbase (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
					Front	Rear			Front	Rear	Total
138	250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	4826	3287	2982	1261	4243
				AWD	4630	5515	4619	3080	3177	1274	4450
			3.5L EcoBoost	RWD	4130	5515	4736	3196	3052	1282	4334
				AWD	4630	5515	4529	2989	3247	1294	4541
	350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	5256	3287	2982	1261	4243
				AWD	4630	5750	5049	3080	3177	1274	4450
			3.5L EcoBoost	RWD	4130	5750	5166	4246	3052	1282	4334
				AWD	4630	5750	4959	4039	3247	1294	4541
	350 HD (DRW)	9900	3.5L EcoBoost	RWD	4130	6835	5387	3591	3061	1452	4513
				AWD	4630	6835	5162	3367	3256	1481	4737
		9950	3.5L PFDI	RWD	4130	6835	5527	3108	2991	1431	4422
				AWD	4630	6835	5303	2883	3186	1461	4647
			3.5L EcoBoost	RWD	4130	6835	5437	3591	3061	1452	4513
				AWD	4630	6835	5212	3367	3256	1481	4737
		10360	3.5L EcoBoost	RWD	4130	7275	5884	4645	3035	1440	4475
				AWD	4630	7275	5660	4420	3230	1470	4700
		11000	3.5L EcoBoost	RWD	4630	7275	6452	4932	3052	1496	4548
				AWD	4630	7275	6238	4719	3248	1513	4761
158	250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	4787	3247	3023	1260	4283
				AWD	4630	5515	4584	3045	3215	1270	4485
			3.5L EcoBoost	RWD	4130	5515	4696	3156	3094	1280	4374
				AWD	4630	5515	4494	2954	3285	1291	4576
	350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	5216	3246	3024	1260	4284
				AWD	4630	5750	5013	3044	3216	1270	4486
			3.5L EcoBoost	RWD	4130	5750	5125	4205	3095	1280	4375
				AWD	4630	5750	4923	4003	3286	1291	4577
	350 HD (DRW)	9900	3.5L EcoBoost	RWD	4130	6835	5360	3564	3095	1445	4540
				AWD	4630	6835	5140	3345	3286	1473	4759
		9950	3.5L PFDI	RWD	4130	6835	5501	3081	3024	1425	4449
				AWD	4630	6835	5281	2861	3216	1453	4669
			3.5L EcoBoost	RWD	4130	6835	5410	3564	3095	1445	4540
				AWD	4630	6835	5190	3345	3286	1473	4759
		10360	3.5L EcoBoost	RWD	4130	7275	5789	4549	3128	1442	4571
				AWD	4630	7275	5569	4330	3320	1470	4790
		11000	3.5L EcoBoost	RWD	4630	7275	6356	4837	3145	1498	4643
				AWD	4630	7275	6148	4628	3338	1513	4852
				RWD	4630	7275	6321	4802	3158	1521	4678

Wheelbase (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
					Front	Rear			Front	Rear	Total
178	350 (SRW)	9500	BEV	RWD	3815	6000	4390	3471	3053	2056	5109
				AWD	4130	5750	5110	3141	3106	1284	4389
			3.5L PFDI	RWD	4130	5750	4886	2917	3300	1313	4613
				AWD	4630	5750	5019	4100	3176	1304	4480
	351 HD (DRW)	9900	3.5L EcoBoost	RWD	4130	6835	5251	3455	3180	1469	4649
				AWD	4630	6835	5027	3231	3374	1499	4873
		9950	3.5L PFDI	RWD	4130	6835	5391	2972	3109	1449	4558
				AWD	4630	6835	5168	2748	3304	1478	4782
			3.5L EcoBoost	RWD	4130	6835	5301	3455	3180	1469	4649
				AWD	4630	6835	5077	3231	3374	1499	4873
		10360	3.5L EcoBoost	RWD	4130	7275	5717	4478	3189	1453	4642
				AWD	4630	7275	5493	4254	3383	1483	4866
		11000	3.5L EcoBoost	RWD	4630	7275	6285	4765	3206	1509	4715
				AWD	4630	7275	6072	4553	3402	1526	4927
				RWD	4630	7275	6249	4730	3218	1532	4750

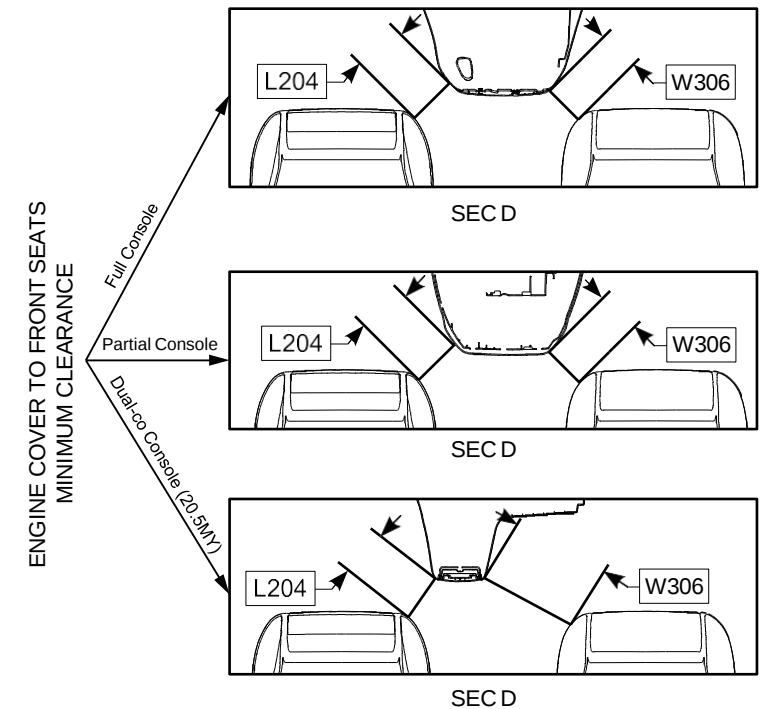
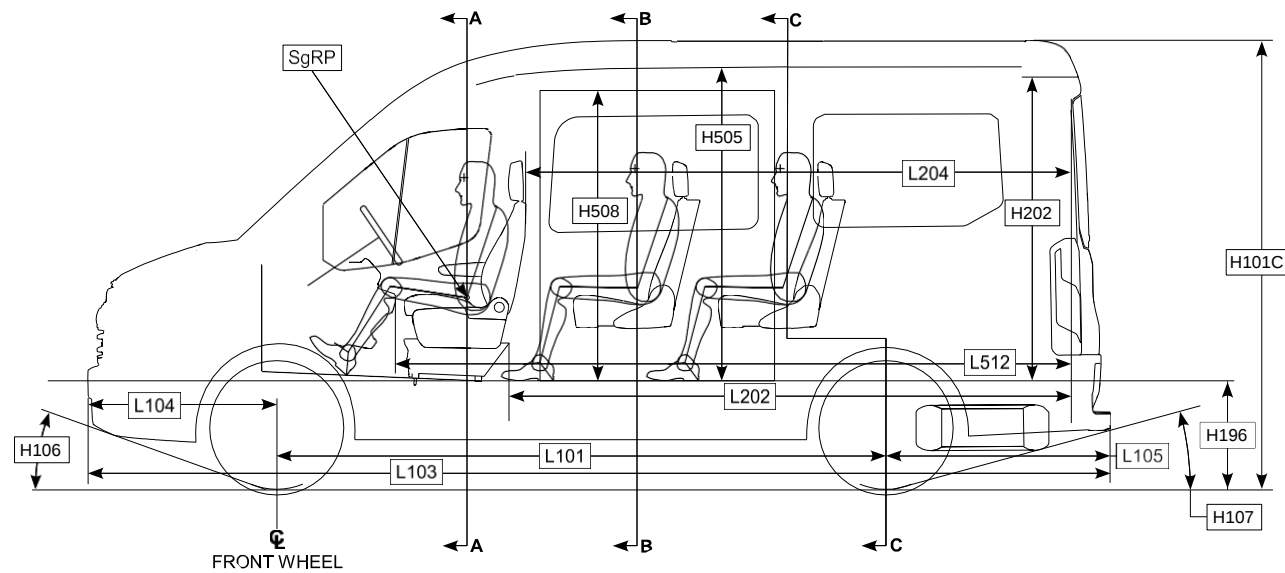
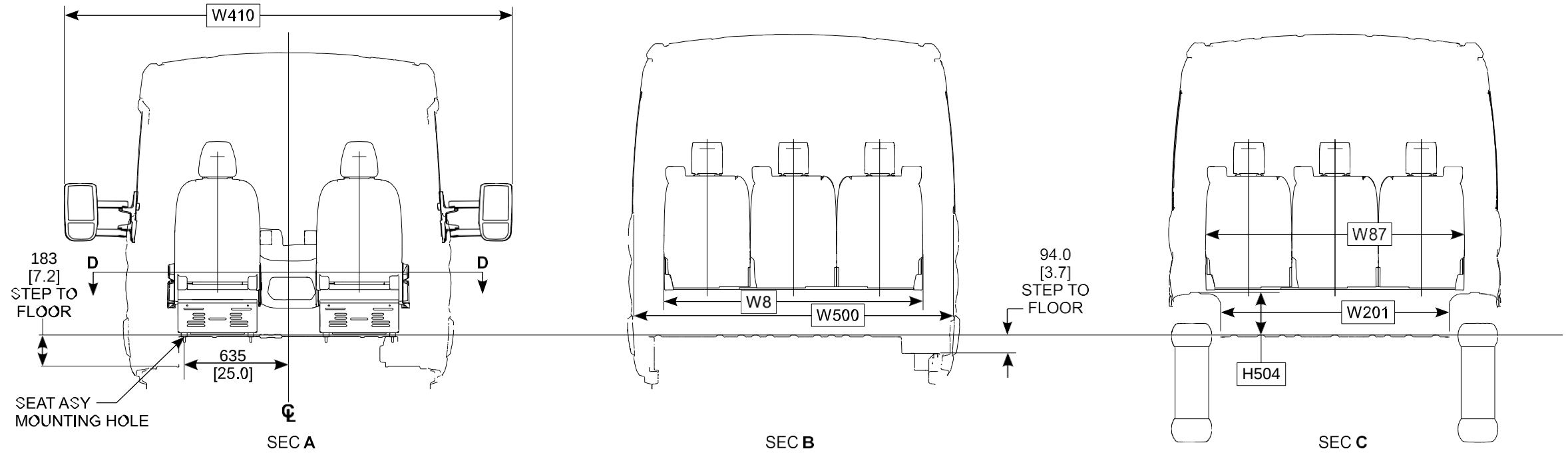


TRANSIT MODEL LINEUP CUTAWAY

Wheelbase (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
					Front	Rear			Front	Rear	Total
138	250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	4846	3307	2971	1252	4223
				AWD	4630	5515	4639	3100	3166	1264	4430
			3.5L EcoBoost	RWD	4130	5515	4756	3216	3041	1273	4314
				AWD	4630	5515	4548	3009	3236	1285	4521
	350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	5276	3307	2971	1252	4223
				AWD	4630	5750	5069	3100	3166	1264	4430
			3.5L EcoBoost	RWD	4130	5750	5186	4266	3041	1273	4314
				AWD	4630	5750	4978	4059	3236	1285	4521
	350 HD (DRW)	9900	3.5L EcoBoost	RWD	4130	6835	5420	3624	3041	1439	4480
				AWD	4630	6835	5195	3400	3236	1468	4704
		9950	3.5L PFDI	RWD	4130	6835	5560	3141	2971	1418	4389
				AWD	4630	6835	5336	2916	3166	1448	4614
			3.5L EcoBoost	RWD	4130	6835	5470	3624	3041	1439	4480
				AWD	4630	6835	5245	3400	3236	1468	4704
		10360	3.5L EcoBoost	RWD	4130	7275	5899	4659	3027	1433	4461
				AWD	4630	7275	5674	4435	3222	1463	4685
		11000	3.5L EcoBoost	RWD	4630	7275	6466	4947	3044	1489	4533
				AWD	4630	7275	6253	4733	3241	1506	4747
158	250 (SRW)	9070	3.5L PFDI	RWD	4130	5515	4787	3247	3023	1260	4283
				AWD	4630	5515	4584	3045	3215	1270	4485
			3.5L EcoBoost	RWD	4130	5515	4696	3156	3094	1280	4374
				AWD	4630	5515	4494	2954	3285	1291	4576
	350 (SRW)	9500	3.5L PFDI	RWD	4130	5750	5217	3248	3023	1259	4282
				AWD	4630	5750	5015	3045	3215	1270	4485
			3.5L EcoBoost	RWD	4130	5750	5127	4207	3093	1280	4373
				AWD	4630	5750	4924	4005	3285	1290	4575
	350 HD (DRW)	9900	3.5L EcoBoost	RWD	4130	6835	5358	3562	3097	1445	4542
				AWD	4630	6835	5138	3343	3288	1473	4761
		9950	3.5L PFDI	RWD	4130	6835	5499	3079	3026	1425	4451
				AWD	4630	6835	5279	2859	3218	1453	4671
			3.5L EcoBoost	RWD	4130	6835	5408	3562	3097	1445	4542
				AWD	4630	6835	5188	3343	3288	1473	4761
		10360	3.5L EcoBoost	RWD	4130	7275	5790	4550	3128	1441	4570
				AWD	4630	7275	5570	4331	3320	1469	4789
		11000	3.5L EcoBoost	RWD	4630	7275	6357	4838	3145	1497	4642
				AWD	4630	7275	6149	4629	3338	1512	4851
				RWD	4630	7275	6322	4803	3158	1520	4677

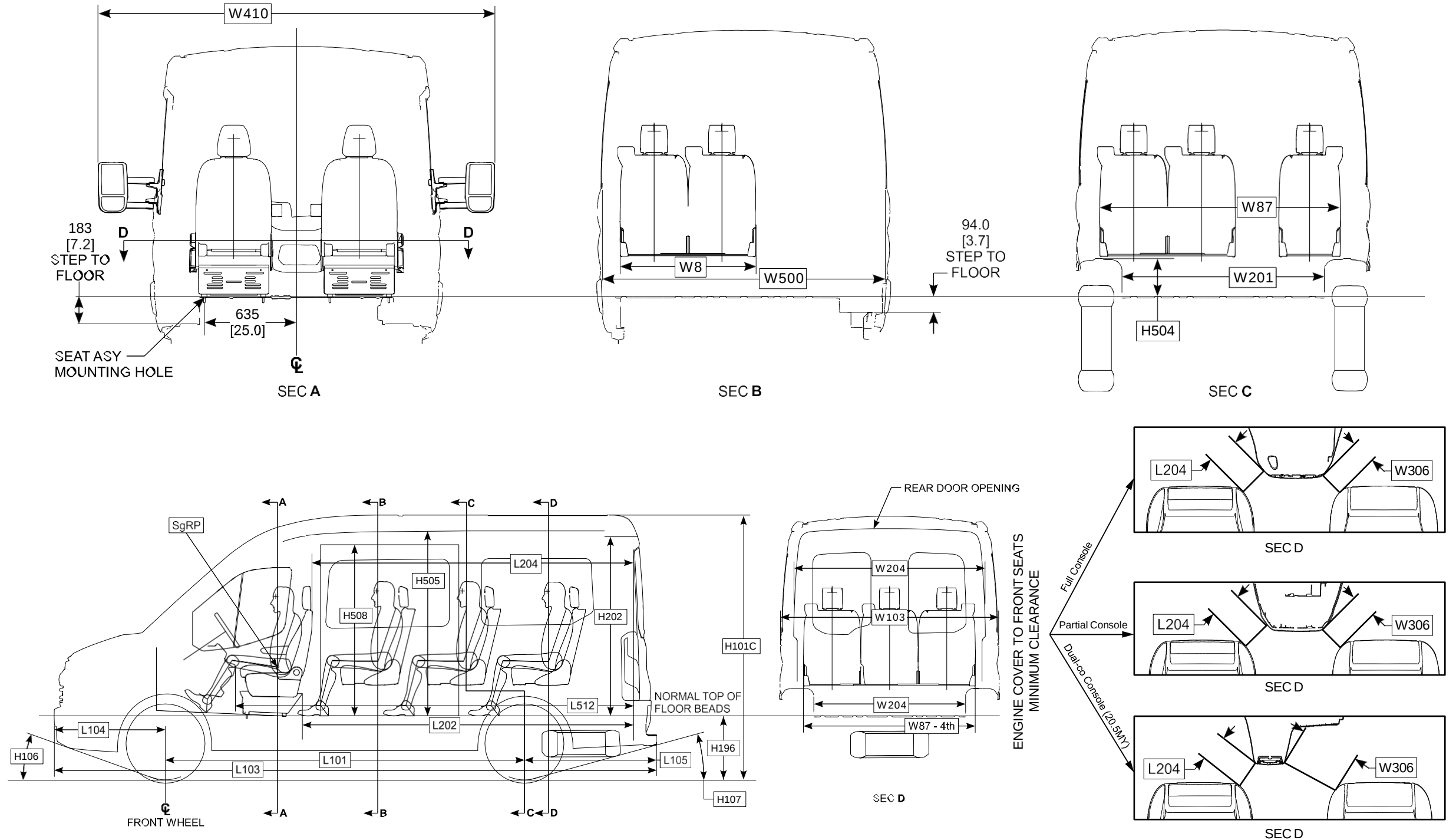
Wheelbase (in)	Series	GVWR (lbs)	Engine	Drive	Max Std GAWR (lbs)		Max Payload (lbs)	Max ARC (lbs)	Base Curb Weight (lbs)		
					Front	Rear			Front	Rear	Total
178	350 (SRW)	9500	BEV	RWD	3815	6000	4428	3508	3029	2043	5072
			3.5L PFDI	RWD	4130	5750	5148	3178	3082	1270	4352
				AWD	4630	5750	4924	2954	3276	1300	4576
			3.5L EcoBoost	RWD	4130	5750	5057	4137	3152	1290	4443
				AWD	4630	5750	4833	3913	3347	1320	4667
		9900	3.5L EcoBoost	RWD	4130	6835	5288	3493	3156	1456	4611
				AWD	4630	6835	5064	3269	3350	1485	4835
		9950	3.5L PFDI	RWD	4130	6835	5429	3009	3085	1435	4521
				AWD	4630	6835	5205	2786	3280	1465	4744
			3.5L EcoBoost	RWD	4130	6835	5338	3493	3156	1456	4611
				AWD	4630	6835	5114	3269	3350	1485	4835
		10360	3.5L EcoBoost	RWD	4130	7275	5781	4542	3147	1431	4578
				AWD	4630	7275	5557	4318	3341	1461	4802
		11000	3.5L EcoBoost	RWD	4630	7275	6349	4829	3164	1487	4651
				AWD	4630	7275	6136	4617	3360	1504	4863
				RWD	4630	7275	6313	4794	3176	1510	4686

TRANSIT DIMENSIONAL DATA REGULAR WB 8-PASSENGER WAGON



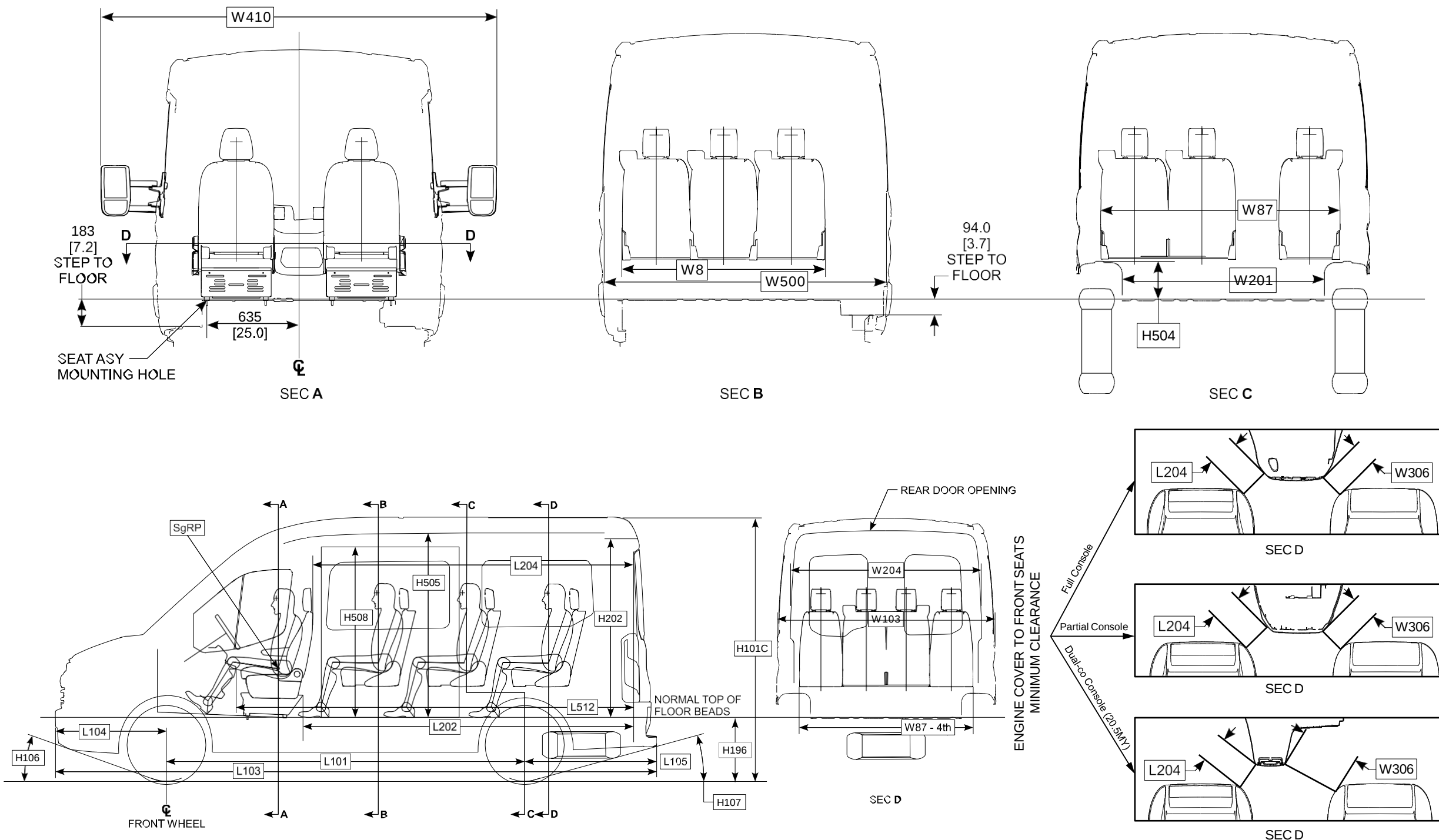
NOTE — [] DIMENSIONS ARE INCHES.
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TRANSIT DIMENSIONAL DATA REGULAR WB 10-PASSENGER WAGON



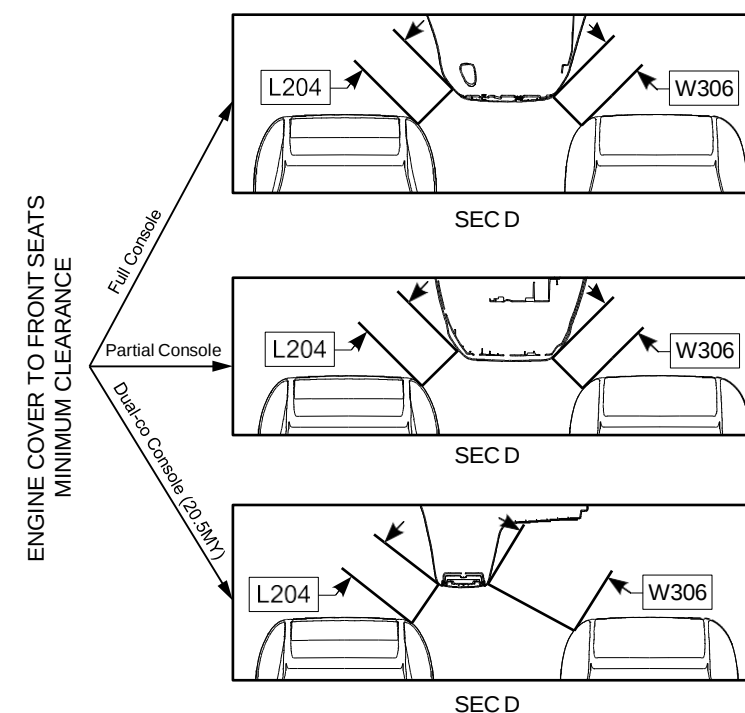
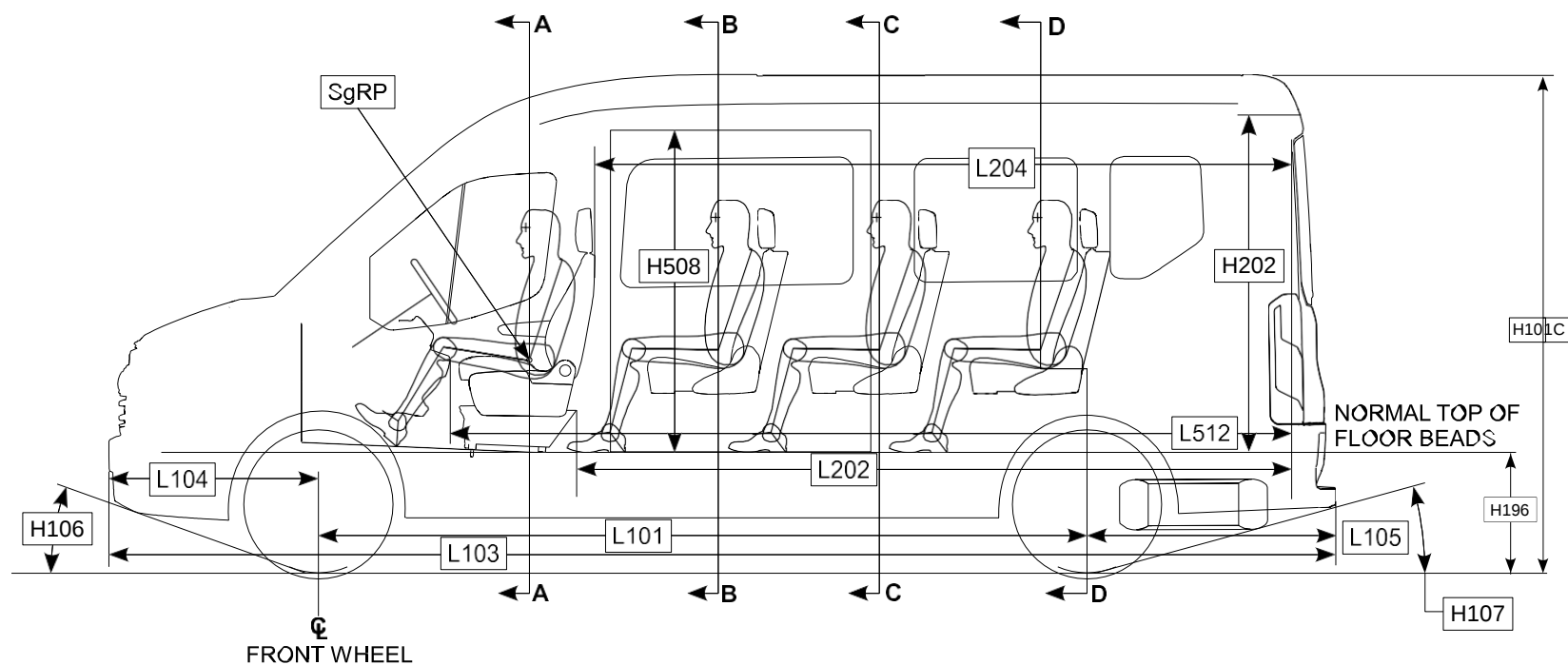
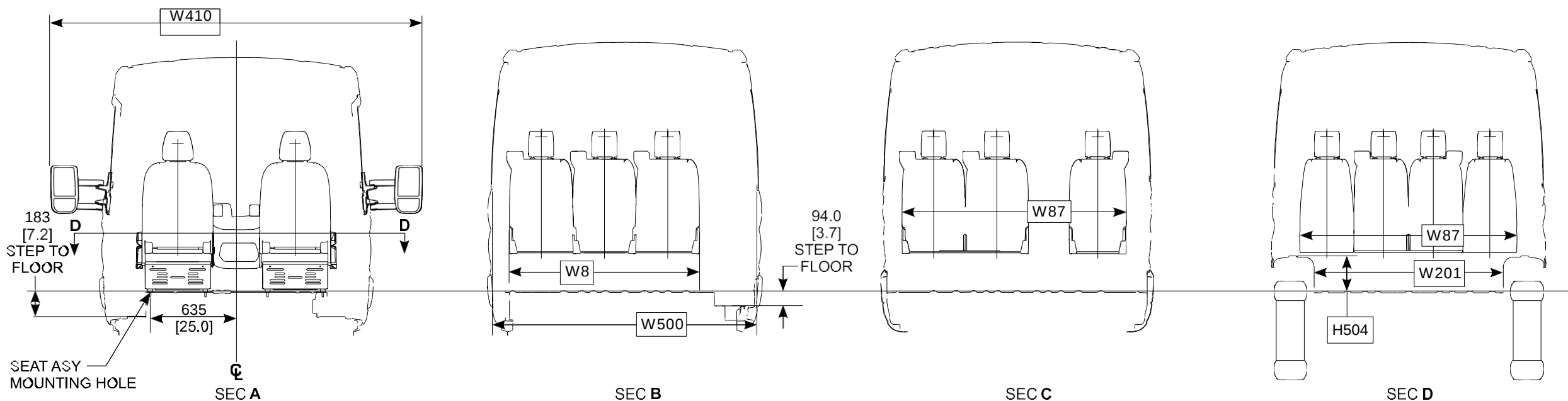
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TRANSIT DIMENSIONAL DATA REGULAR WB 12-PASSENGER WAGON



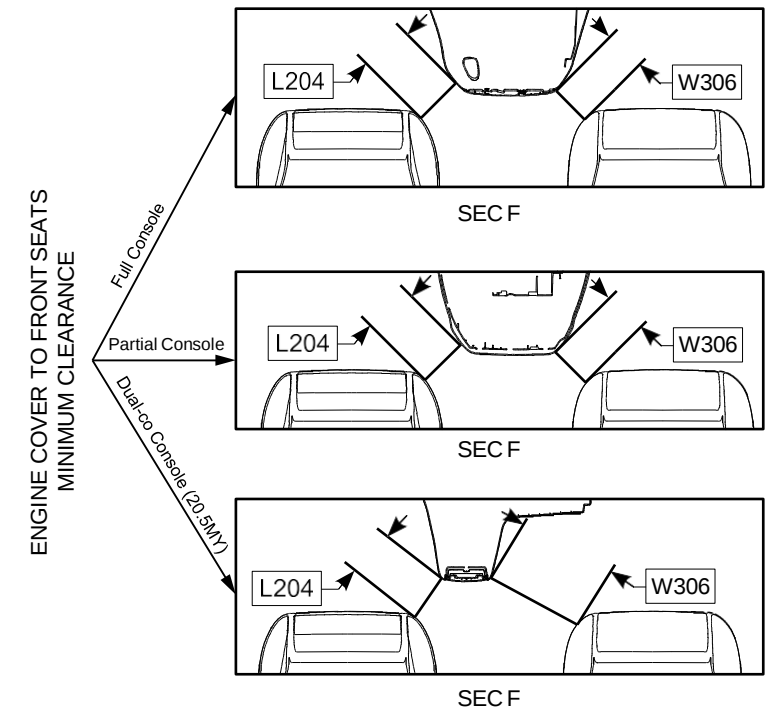
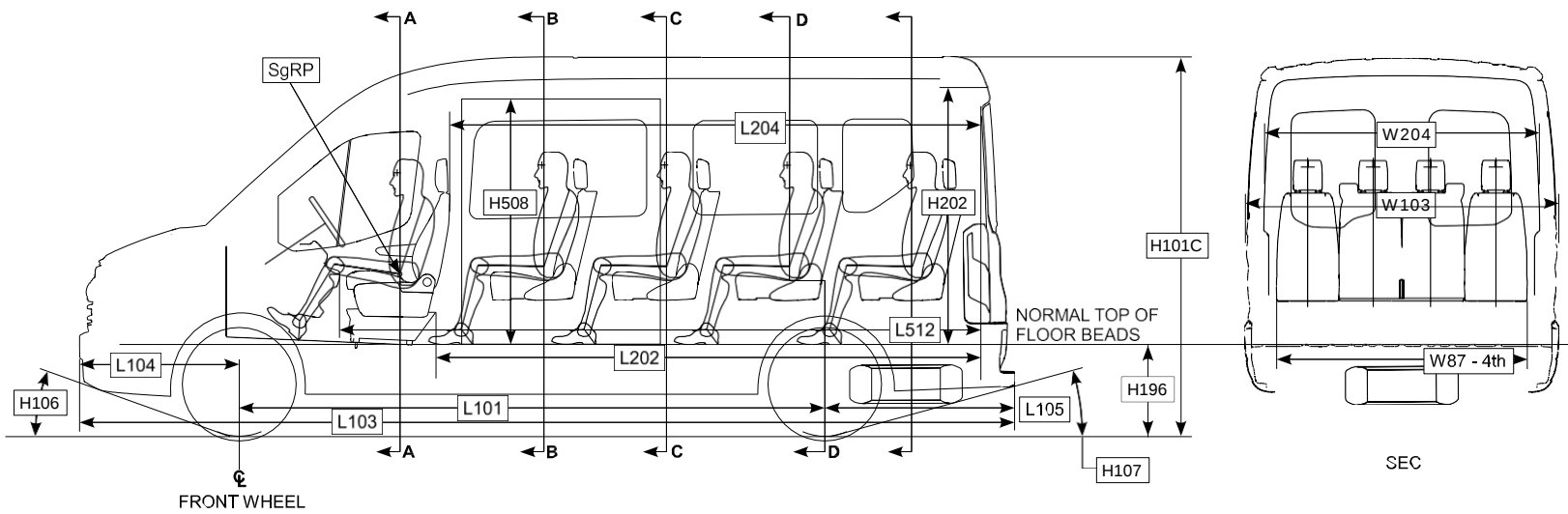
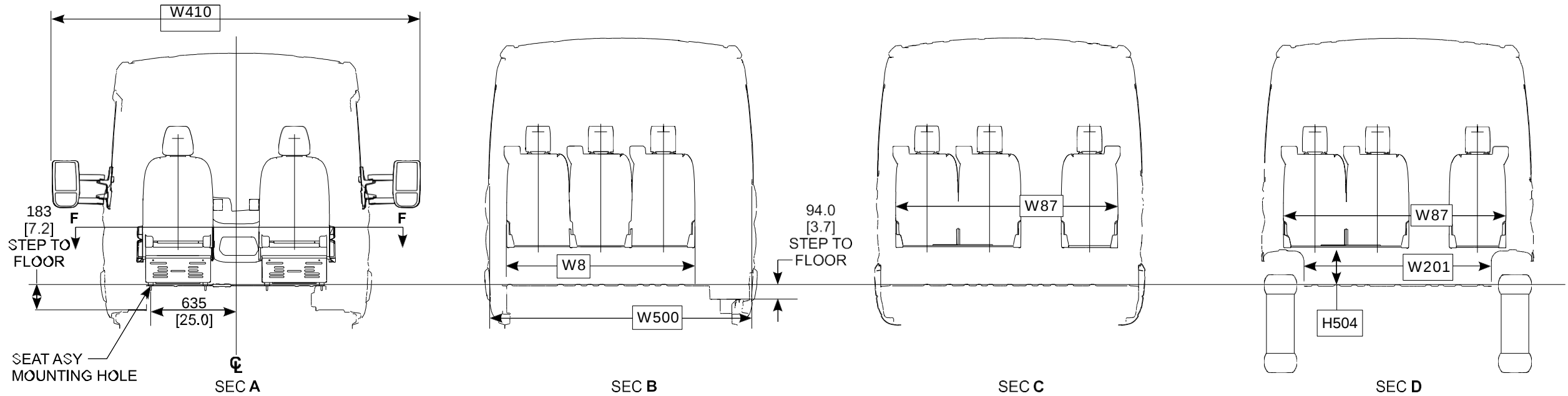
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TRANSIT DIMENSIONAL DATA LONG WB 12-PASSENGER WAGON



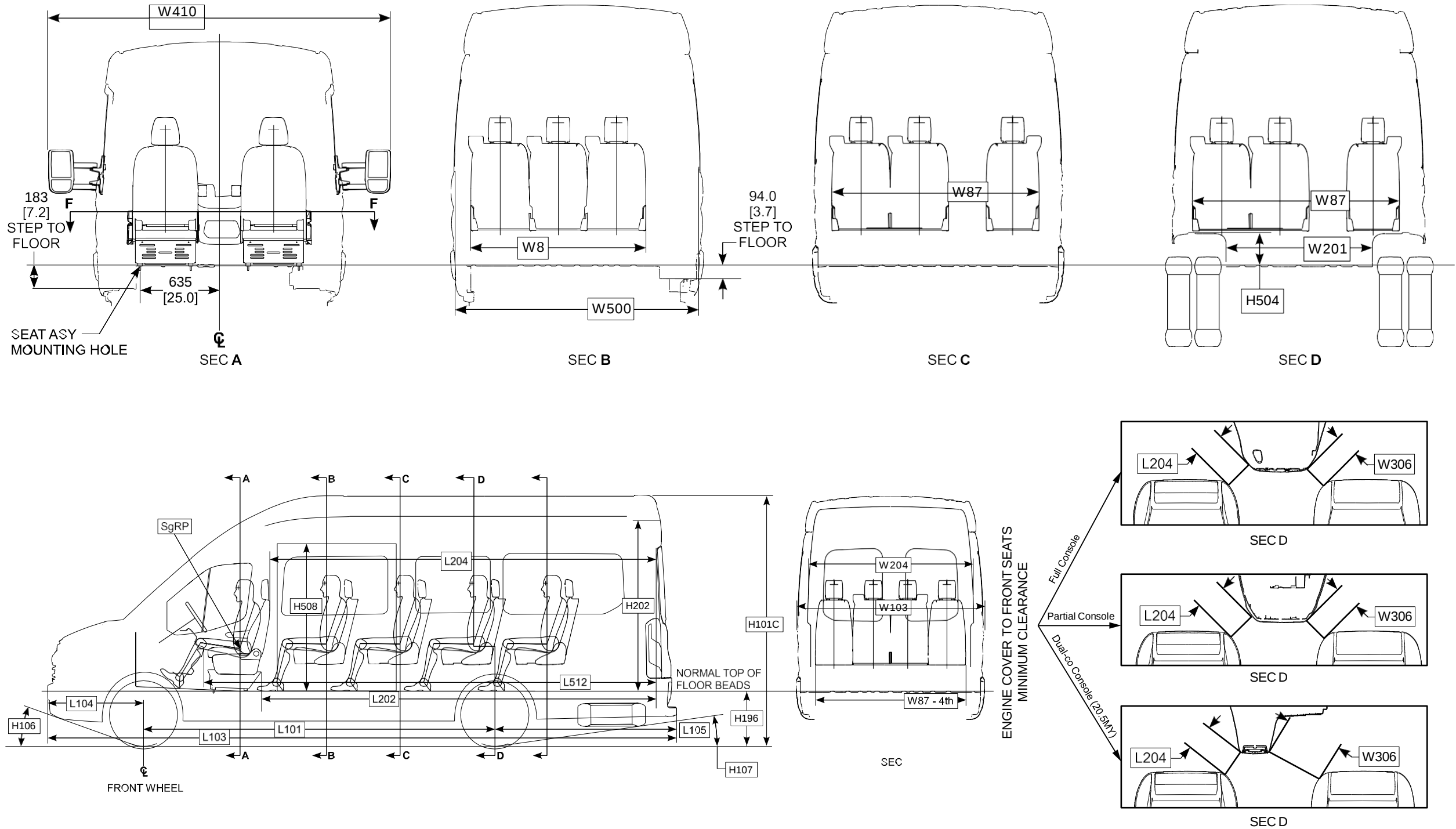
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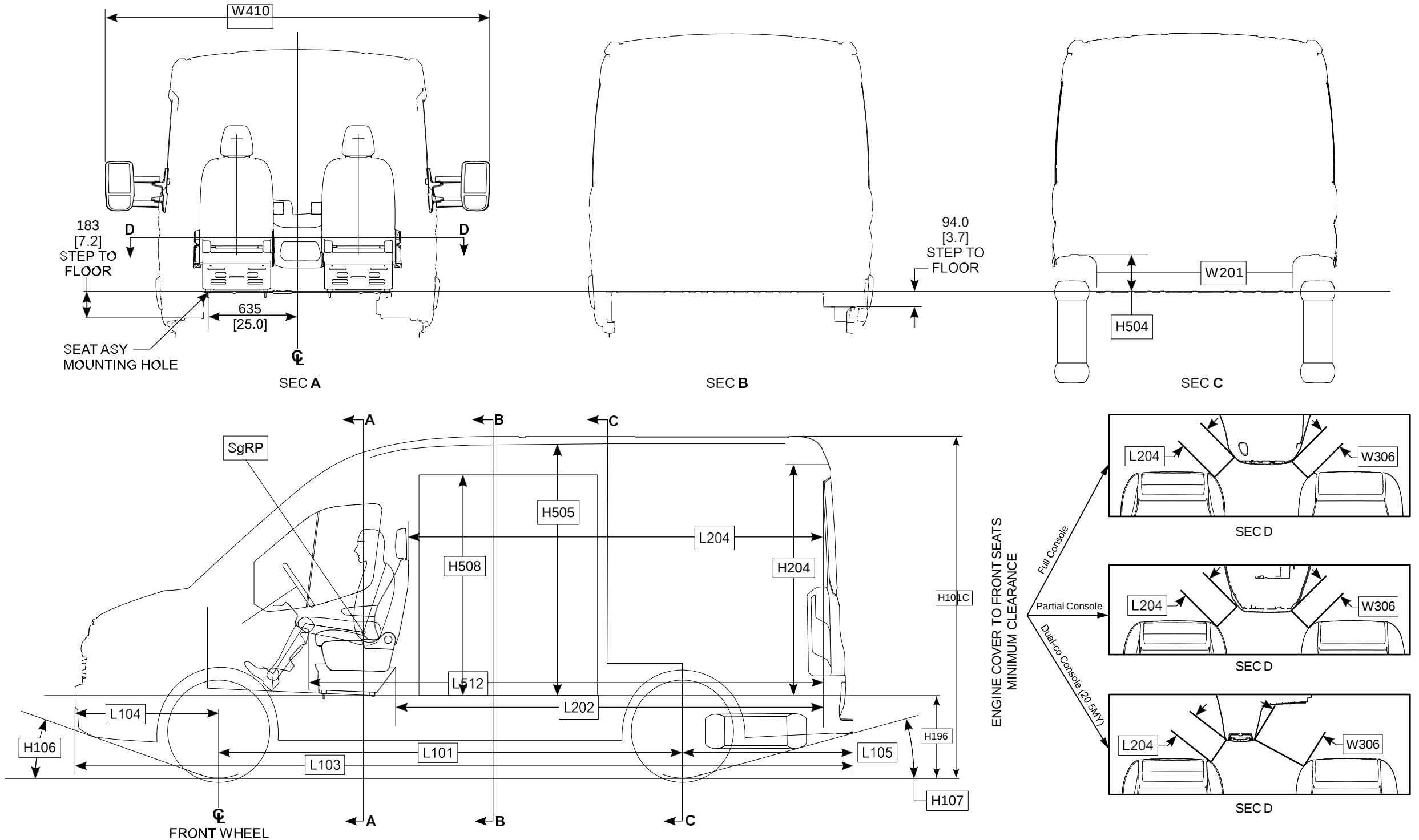
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TRANSIT DIMENSIONAL DATA EXTENDED LENGTH LONG WB 15-PASSENGER WAGON



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TRANSIT DIMENSIONAL DATA 2-PASSENGER VAN



NOTE — [] DIMENSIONS ARE INCHES.
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TRANSIT

MODEL YEAR

	2021 FORD TRANSIT																							
	Wheelbase (Medium, Long, Jumbo)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Jumbo	Jumbo	Medium	Medium	Long	Long	Long	Jumbo
	Bus / Van	Transit Bus	TransitBus	Transit Bus	Transit Bus	TransitBus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Van	Transit Van	Transit Van	Transit Van	Transit Van	Transit Van
	Roof (Low , Medium,High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	2	15	2	2	2	2	2	2
	Row s of Seating	1	1	3 (2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	Exterior																							
L101	Wheelbase [in]	129.9	129.9	129.9	129.9	129.9	129.9	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	129.9	129.9	147.6	147.6	147.6	147.6
L103	Length [in]	219.9	217.8	219.9	219.9	217.8	217.8	237.6	235.5	235.5	237.6	237.6	237.6	235.5	235.5	235.5	263.9	263.9	219.9	217.8	237.6	235.5	235.5	263.9
L103	Length w ith optional extended bumper [mm]	-	219.9	-	-	219.9	219.9	237.6	237.6	237.6	-	237.6	237.6	237.6	237.6	237.6	266.1	266.1	-	219.9	-	237.6	237.6	266.1
H101C-Ford	Height [in]	82.3	98.8	82.2	82.2	98.7	98.7	82.9	99.8	109.6	82.4	82.4	99.2	99.2	108.6	108.6	109.4	107.7	82.2	99.1	82.9	101.3	109.6	110.4
W103	Width - Excluding Mirrors [in]	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	-
W410	Width - Including Mirrors [in]	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
W411	Width - Mirrors Folded [in]	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
W101C-Ford	Front Track [in]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
W102C-Ford	Rear Track [in]	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	-
L104	Front Overhang [in]	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
L105	Rear Overhang [in]	49.7	47.6	49.7	49.7	47.6	47.6	49.7	47.6	47.6	49.7	49.7	47.6	47.6	47.6	47.6	76.0	76.0	49.7	47.6	49.7	47.6	47.6	76.0
L105	Rear Overhang w ith optional extended bumper [mm]	-	49.7	-	-	49.7	49.7	-	49.7	49.7	-	-	49.7	49.7	49.7	49.7	78.1	78.1	-	49.7	-	49.7	49.7	78.1
H196	Load Height (Curb) [in]	28.2	28.2	28.2	28.2	28.2	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	27.8	27.8	28.9	28.9	28.7	28.7	28.7	28.0
H																								

INTERIOR AND EXTERIOR DIMENSIONS ARE COMMON OF BEV AND ICE VARIANTS

NOTE — [] DIMENSIONS ARE ENGLISH.
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TRANSIT

MODEL YEAR

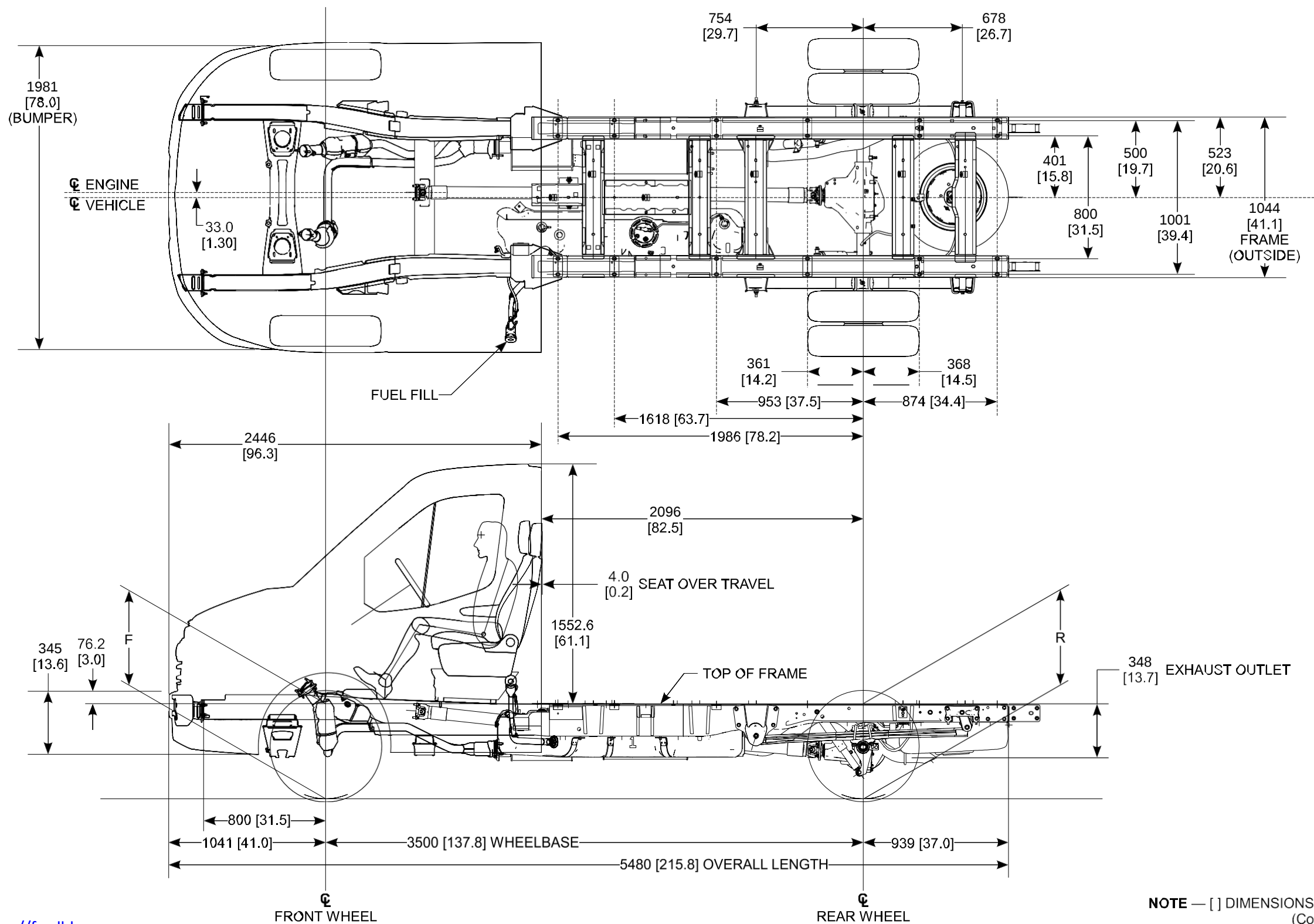
	2021 FORD TRANSIT																							
	Wheelbase (Medium, Long, Jumbo)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Jumbo	Jumbo	Medium	Medium	Long	Long	Long	Jumbo
	Bus /Van	TransitBus	Transit Bus	TransitBus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Bus	Transit Van	Transit Van	Transit Van	Transit Van	Transit Van	Transit Van
	Roof (Low , Medium,High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	12	15	2	2	2	2	2	2
	Row s of Seating	1	1	3(2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	Exterior																							
L101	Wheelbase [mm]	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3750.0	3300.0	3300.0	3750.0	3750.0	3750.0	3750.0
L103	Length [mm]	5585.0	5531.0	5585.0	5585.0	5531.0	5531.0	6035.0	5981.0	5981.0	6035.0	6035.0	5981.0	5981.0	5981.0	5981.0	6704.0	6704.0	5585.0	5531.0	6035.0	5981.0	5981.0	6704.0
L103	Length w ith optional extended bumper [mm]	-	5585.0	-	-	5585.0	5585.0	-	6035.0	6035.0	-	-	6035.0	6035.0	6035.0	6035.0	6758.0	6758.0	-	5585.0	-	6035.0	6035.0	6758.0
H101C-Ford	Height [mm]	2090.5	2510.5	2089.0	2089.0	2506.0	2506.0	2105.0	2534.9	2784.5	2092.0	2092.0	2520.0	2520.0	2759.0	2759.0	2736.0	2736.0	2088.0	2518.0	2105.0	2574.0	2785.0	2803.0
W103	Width - Excluding Mirrors [mm]	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066.0	2066 / 2126
W410	Width - Including Mirrors [mm]	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0	2474.0
W411	Width- Mirrors Folded [mm]	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0	2114.0
W101C-Ford	Front Track [mm]	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732 / 1740
W102C-Ford	Rear Track [mm]	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743.0	1743 / 1670
L104	Front Overhang [mm]	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
L105	Rear Overhang [mm]	1262.0	1208.0	1262.0	1262.0	1208.0	1208.0	1262.0	1208.0	1262.0	1262.0	1262.0	1208.0	1208.0	1262.0	1208.0	1262.0	1208.0	1262.0	1208.0	1262.0	1208.0	1262.0	1208.0
L10																								

INTERIOR AND EXTERIOR DIMENSIONS ARE COMMON OF BEV AND ICE VARIANTS

NOTE — DIMENSIONS ARE METRIC.
(Cont'd next page)



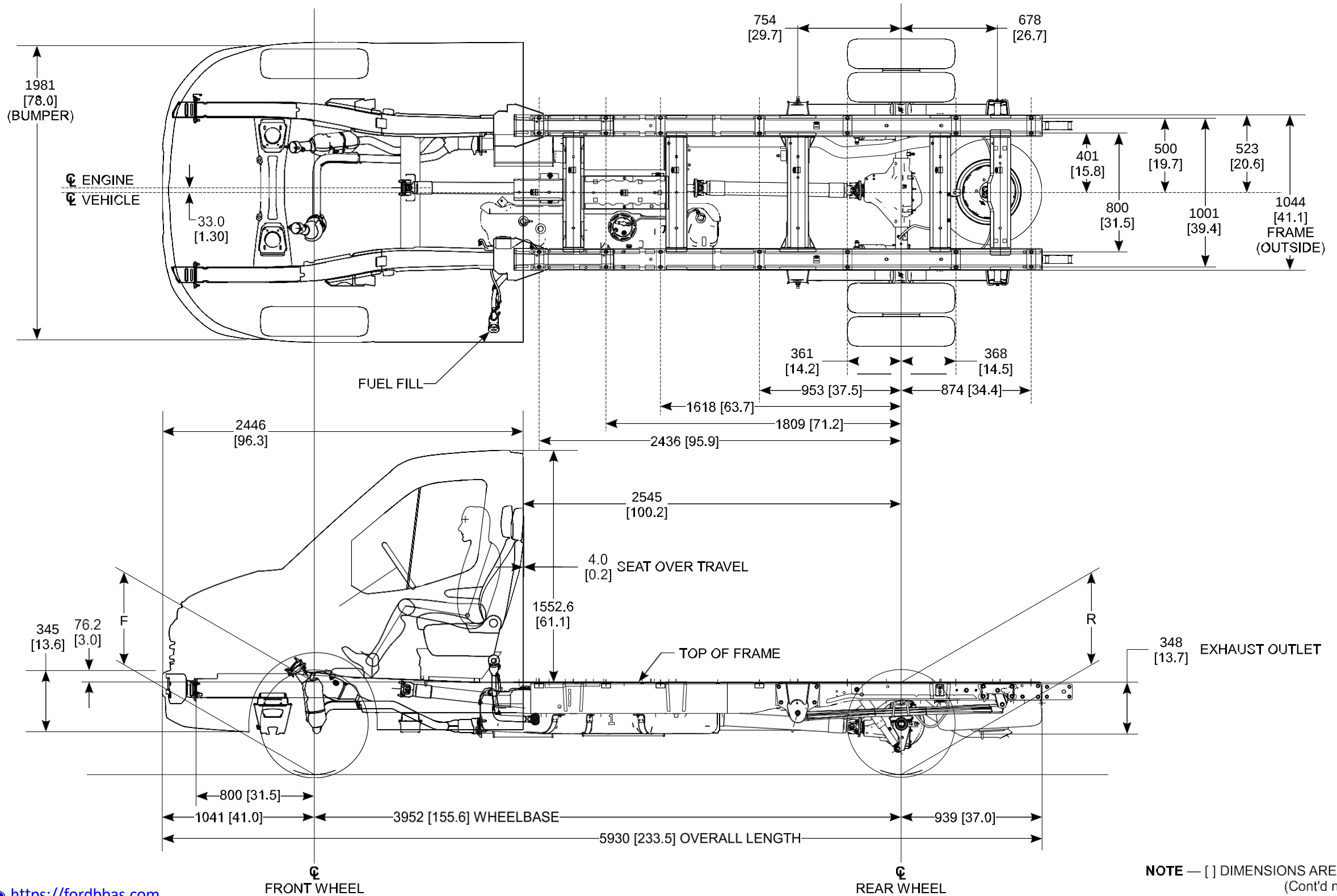
TRANSIT DIMENSIONAL DATA 138" WB CHASSIS CAB / CUTAWAY



NOTE — [] DIMENSIONS ARE INCHES.
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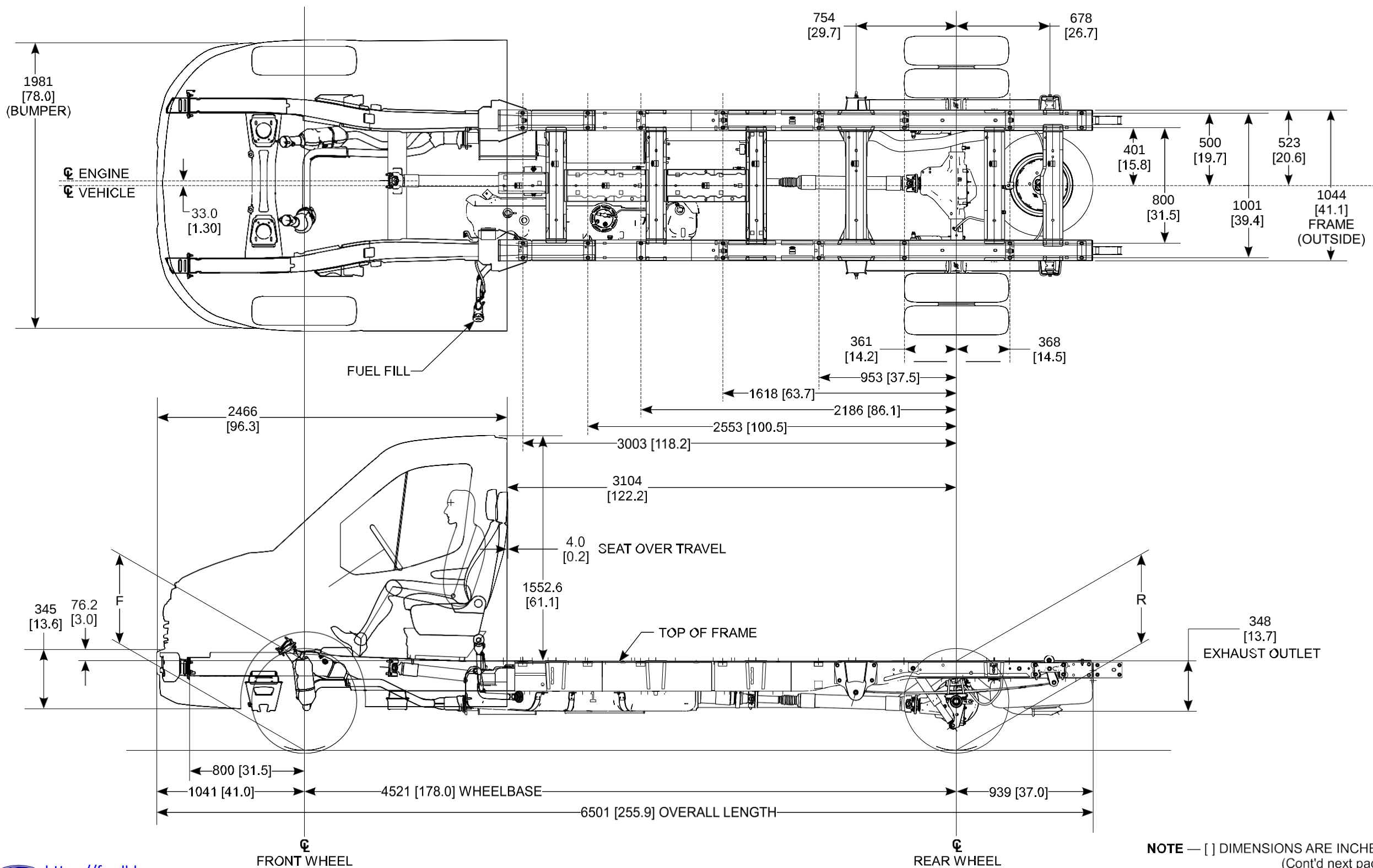
TRANSIT DIMENSIONAL DATA

156" WB CHASSIS CAB / CUTAWAY



NOTE — [] DIMENSIONS ARE INCHES.
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TRANSIT DIMENSIONAL DATA 178" WB CHASSIS CAB / CUTAWAY



NOTE — [] DIMENSIONS ARE INCHES.
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TRANSIT DIMENSIONAL DATA CHASSIS CAB / CUTAWAY

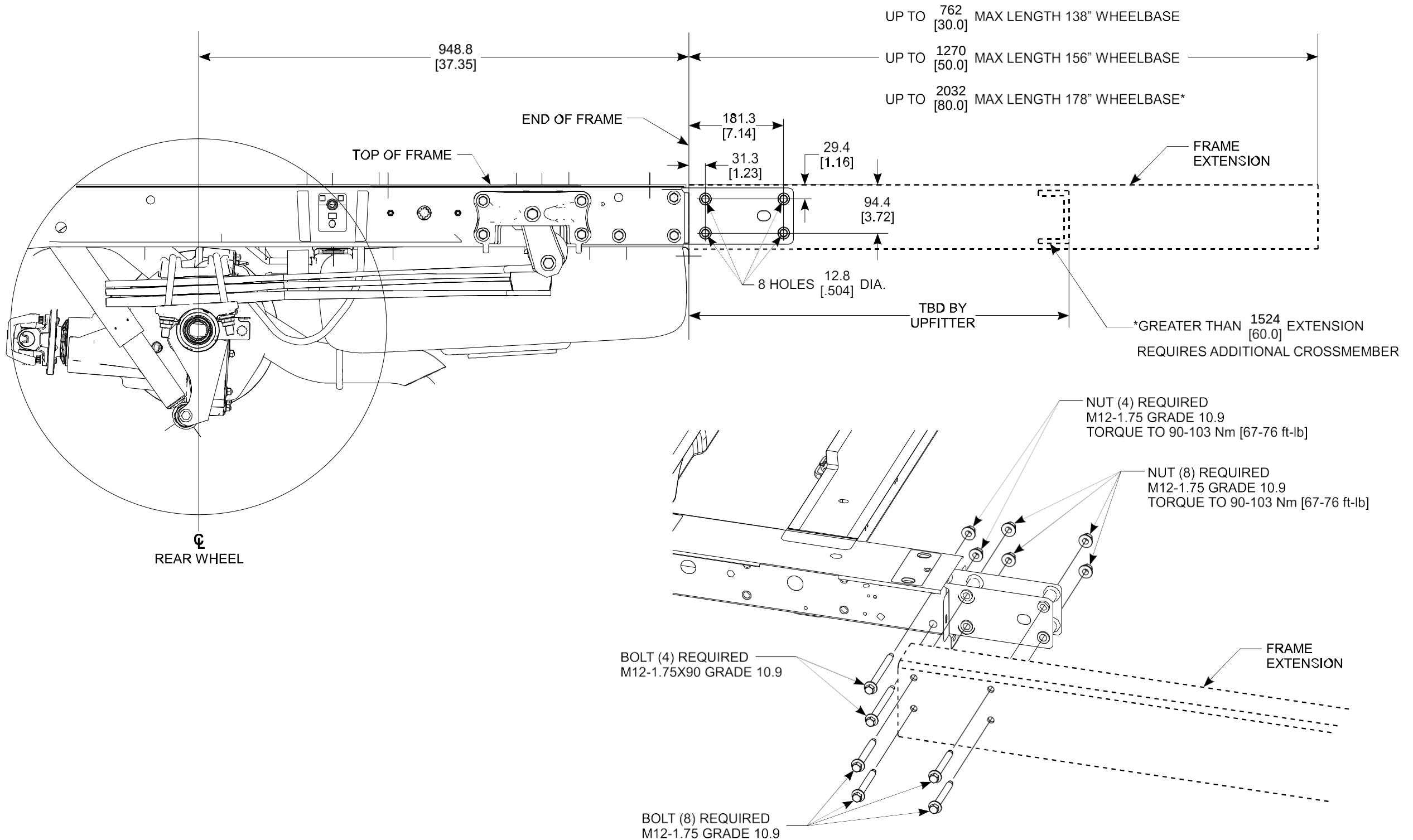
ENGLISH UNITS

		Regular	Regular	Regular	Long	Long	Long	Long	Super Jumbo	Super Jumbo
		T250	T350 HD	T350 HD	T250	T350	T350 HD	T350 HD	T350 HD	T350 HD
		CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA
Dim Code	TRANSIT: CHASSIS CAB / CUTAWAY	SRW	DRW	DRW	SRW	SRW	DRW	DRW	DRW	DRW
L101	Wheelbase [in]	138.0	138.0	138.0	155.7	155.7	155.7	155.7	178.0	178.0
L103	Overall Length [in]	223.3	223.3	223.3	241.1	241.1	241.1	241.1	263.4	263.4
W101C	Front Track [in]	68.2	68.5	68.5	68.2	68.2	68.5	68.5	68.5	68.5
W102C	Rear Track [in]	68.6	65.7	65.7	68.6	68.6	65.7	65.7	65.7	65.7
N/A	Rear Axle to End of Frame [in] or Rear Overhang	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
R	Load Height (Loaded) [in]	25.0	24.7	24.3	25.8	25.4	25.6	25.3	24.9	24.6
N/A	Height at Top of Steering Wheel (Loaded) [in]	60.5	59.6	59.4	60.2	60.1	59.2	59.1	60.0	59.9
N/A	Rear Axle Clearance (Loaded) [in]	5.6	5.5	5.5	6.1	5.9	6.1	6.0	5.9	6.0

METRIC UNITS

		Regular	Regular	Regular	Long	Long	Long	Long	Super Jumbo	Super Jumbo
		T250	T350 HD	T350 HD	T250	T350	T350 HD	T350 HD	T350 HD	T350 HD
		CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA
Dim Code	TRANSIT: CHASSIS CAB / CUTAWAY	SRW	DRW	DRW	SRW	SRW	DRW	DRW	DRW	DRW
L101	Wheelbase [mm]	3504	3504	3504	3954	3954	3954	3954	4522	4522
L103	Overall Length [mm]	5673	5673	5673	6123	6123	6123	6123	6691	6691
W101C	Front Track [mm]	1732	1740	1740	1732	1732	1740	1740	1740	1740
W102C	Rear Track [mm]	1743	1670	1670	1743	1743	1670	1670	1670	1670
N/A	Rear Axle to End of Frame [mm] or Rear Overhang	1146	1146	1146	1146	1146	1146	1146	1146	1146
R	Load Height (Loaded) [mm]	634	627	616	656	645	649	643	633	624
N/A	Height at Top of Steering Wheel (Loaded) [mm]	1537	1513	1510	1529	1526	1503	1500	1523	1521
N/A	Rear Axle Clearance (Loaded) [mm]	141	140	139	155	151	154	153	150	153

TRANSIT REAR FRAME EXTENSION CHASSIS CAB / CUTAWAY



NOTE — [] DIMENSIONS ARE INCHES.



TRANSIT CENTER OF GRAVITY REFERENCE DATA

Passenger Load (1)	
GVWR	P (kg [lb])
10,000 lb and Below	181 [400]
Over 10,000 lb	227 [500]

Passenger Load CG Location		
Configuration	CG _{v p} (2) (mm [in])	CG _{hp} (3) (mm [in])
All Transit	1059 [41.7]	1031 [40.6]

Chassis Vertical CG Location Samples (4)		
Configuration	Engine	CG _{vc} (5) (mm [in])
250 SRW Low Roof Cargo Van 130in WB	3.5L PFDI	783 [30.8]
350 SRW Medium Roof Cargo Van 130in WB	BEV	746 [29.4]
250 SRW Medium Roof Cargo Van 148in WB	2.0L Diesel	834 [32.8]
350 DRW High Roof Extended Cargo Van 148in WB	BEV	791 [31.1]
350 DRW High Roof Passenger Van 148in WB	3.5L GTDI	877 [34.5]
350 DRW High Roof Extended Cargo Van 148in WB	2.0L Diesel	881 [34.7]
350 DRW High Roof Extended Cargo Van 148in WB	3.5L GTDI	883 [34.8]
250 SRW Chassis Cab 138in WB	3.5L PFDI	723 [28.5]
250 SRW Chassis Cab 138in WB	2.0L Diesel	699 [27.5]
350 SRW Chassis Cab 156in WB	2.0L Diesel	749 [29.5]
350 DRW Chassis Cab 138in WB	2.0L Diesel	712 [28.1]
350 DRW Chassis Cab 156in WB	3.5L GTDI	686 [27.0]
350 DRW Cutaway Cab 178in WB	2.0L Diesel	749 [29.5]

Notes:

1. P – Passenger Load as defined in FMVSS 105
2. CG_{v p} – Vertical CG location of Passenger Load as measured from the Ground
3. CG_{hp} – Horizontal CG location of Passenger Load as measured from the Center of the Front Wheel
4. Values are physical measurements taken from sample Chassis, data is not available for all possible configurations. All values should be considered estimates, if calculated CG values for the completed vehicle are close to limits stated in the applicable IVM, Ford recommends verification of CG by physical measurement of a completed vehicle.
5. CG_{vc} – Vertical CG location of Chassis as measured from the Ground

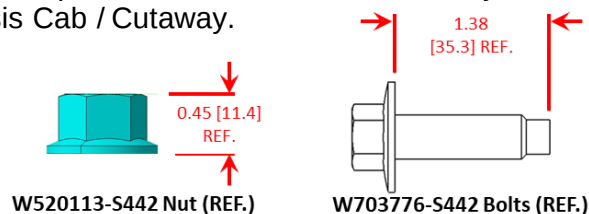
Note: For reference only--- Please see the Incomplete Vehicle Manual

TRANSIT SECOND UNIT BODY MOUNTING

TRANSIT SECOND UNIT BODY (SUB)

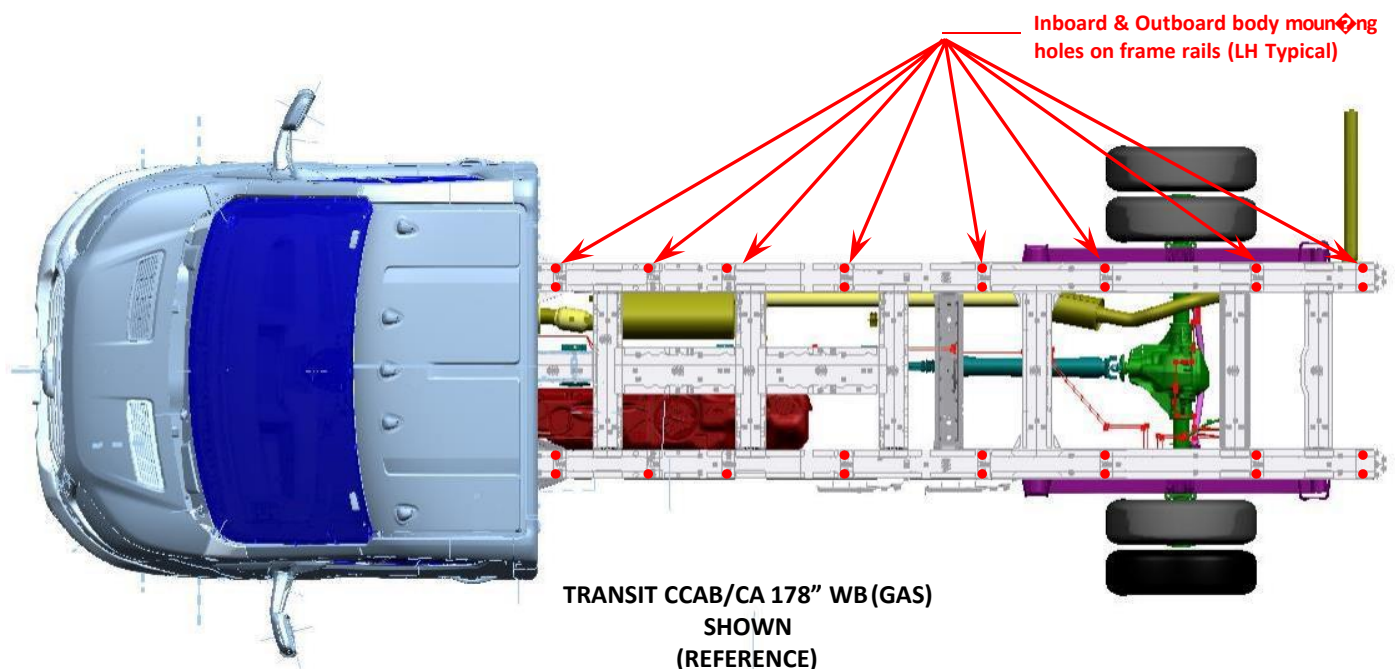
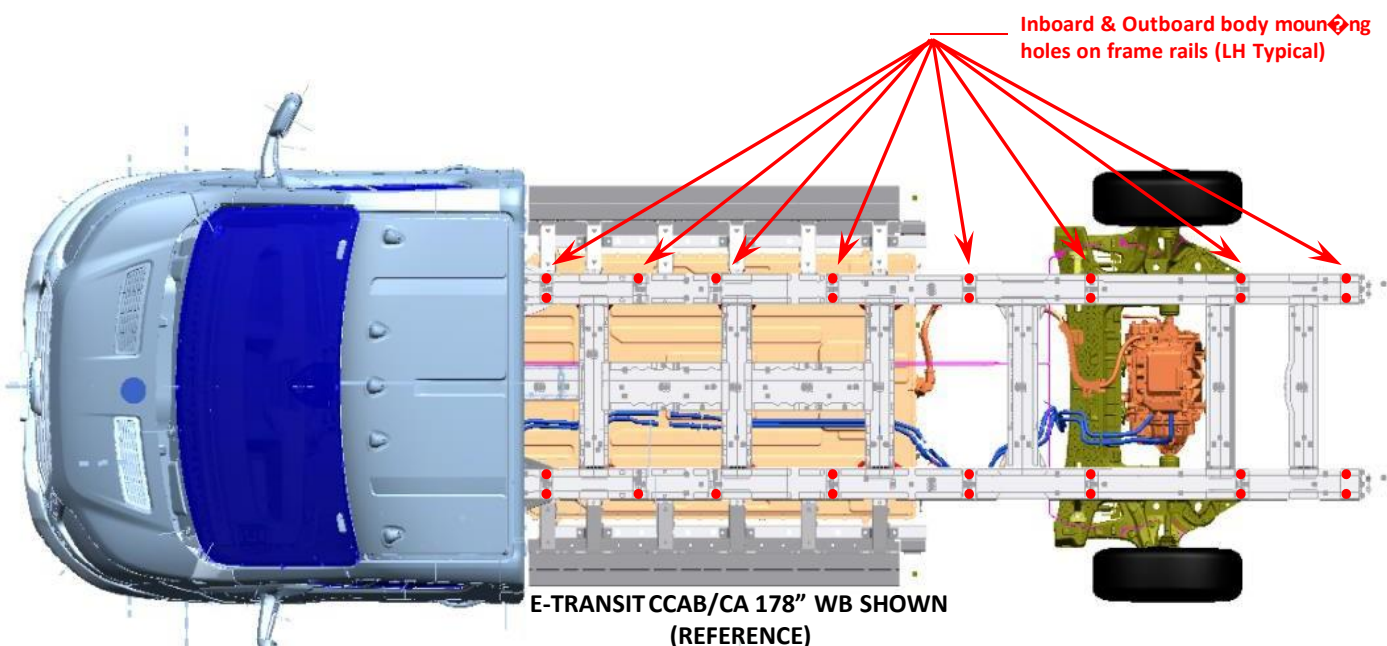
Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit [Body and Equipment Mounting Manual \(BEMM\)](https://fordbbas.com/publications), Body Section, 5.1.6 Chassis Cab / Cutaway at <https://fordbbas.com/publications> for additional SUB mounting information for both GAS and BEV Model variants.

- A full-length structural body should be hard-mounted to all available inboard and outboard frame hole locations, however, fasteners are not required in 2nd and 3rd rows of LH and RH frame rail inboard holes alongside the battery, fuel tank and exhaust muffler. Ford Motor Company recommends 25 mm head-size flange M10 Grade 10.9 W520113-S442 nuts & W703776-S442 bolts, or equivalent. Reference BEMM Body Section, 5.1.6 Chassis Cab / Cutaway.

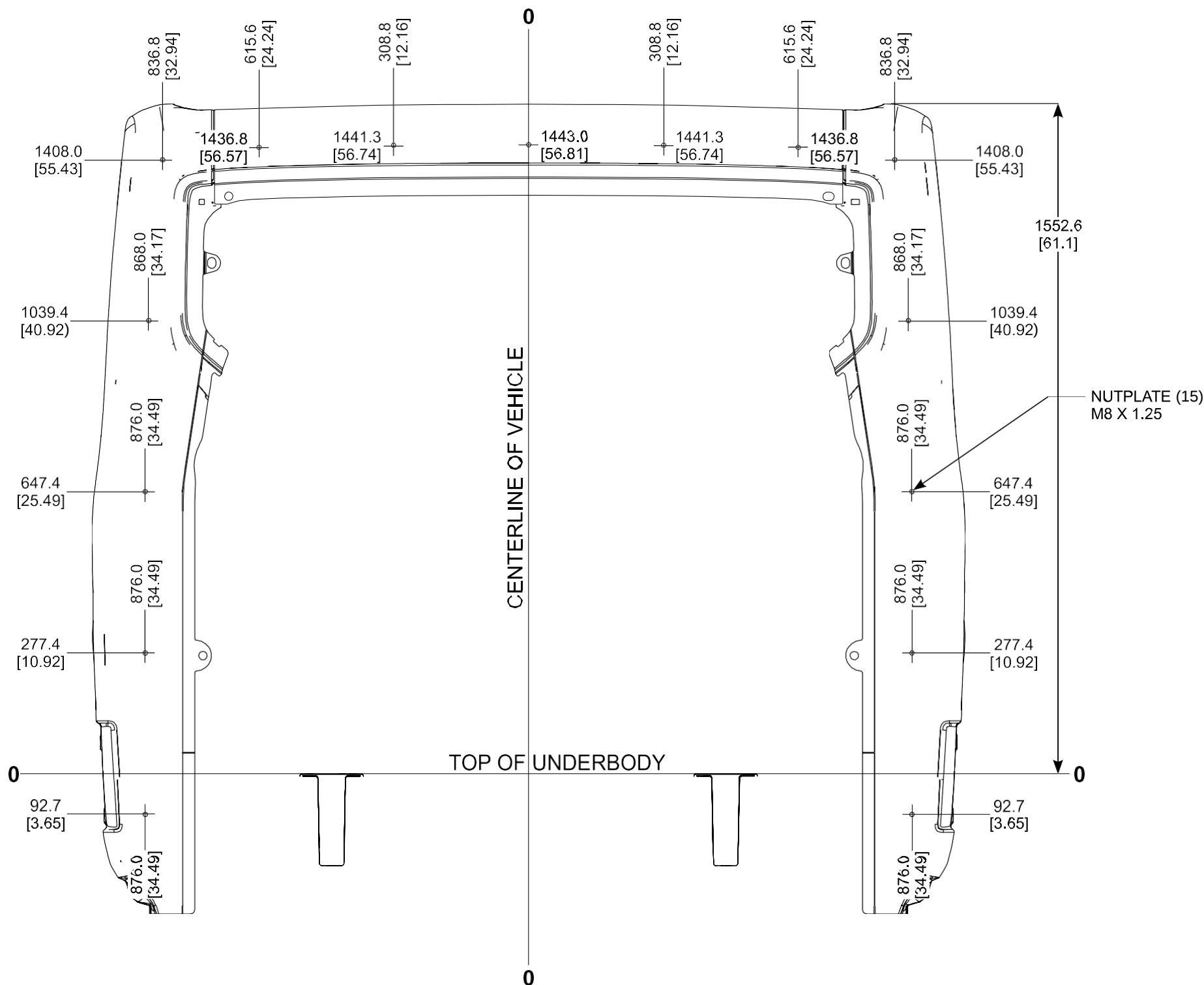


- DO NOT WELD** to the flanges of the side rails.
- The recommended attachment fastener for the Cutaway Back-of-Cab non-threaded nutplates is a MR8 Taptite 2000® bolt or equivalent. Reference Transit BEMM Body Section, 5.1.7 Cutaways.
- Note the requirement for a Cutaway floor spacer between the cab and an attached body. Reference: BEMM Body Section, 5.1.7 Cutaway – Floor Spacer.

Note: Electric Chassis Cab vehicles with a Platform or Stake style Second Unit Body may exhibit a Low Frequency Ride Comfort Characteristics that does not meet customer expectations. When upfitting a vehicle with either of these Second Unit Bodies, Ford Motor Company recommends part NK31-110867-AA* be ordered and installed prior to delivery to end customer.



TRANSIT BACK OF CAB MOUNTING HOLES CUTAWAY



NOTE — [] DIMENSIONS ARE INCHES.
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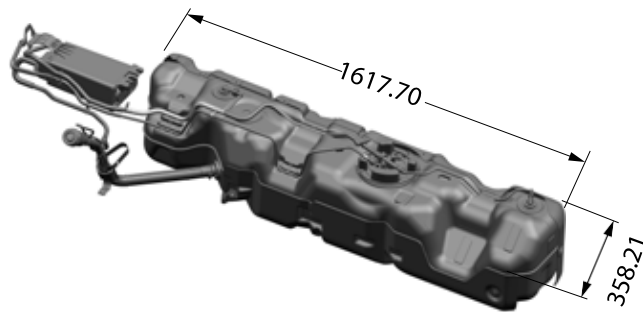
TRANSIT FUEL TANKS ALL MODELS

GASOLINE FUEL SYSTEM

EXTENDED RANGE FUEL TANK

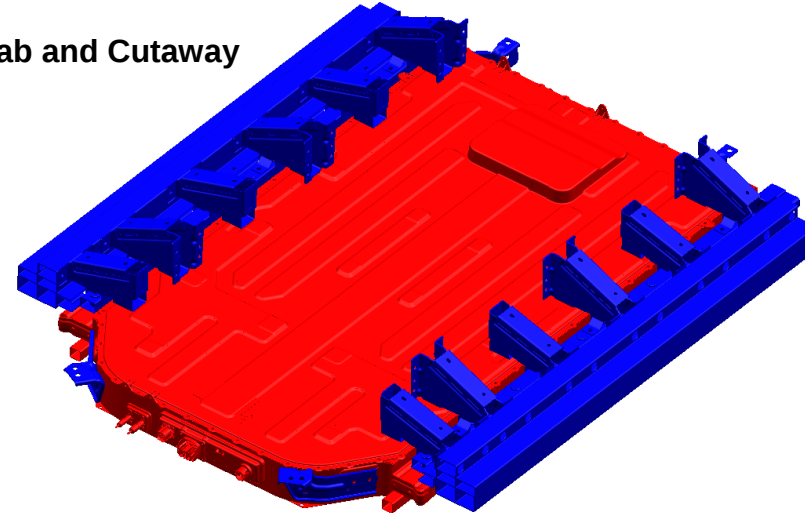


SINGLE FUEL TANK

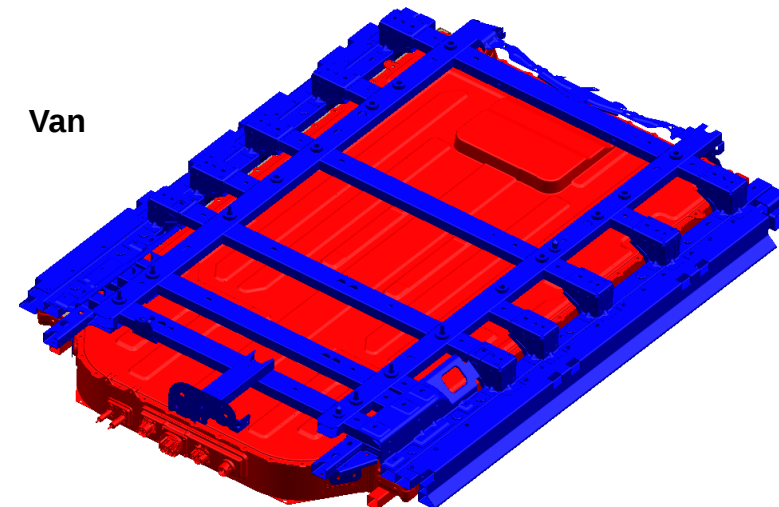


E-Transit Battery

Chassis Cab and Cutaway

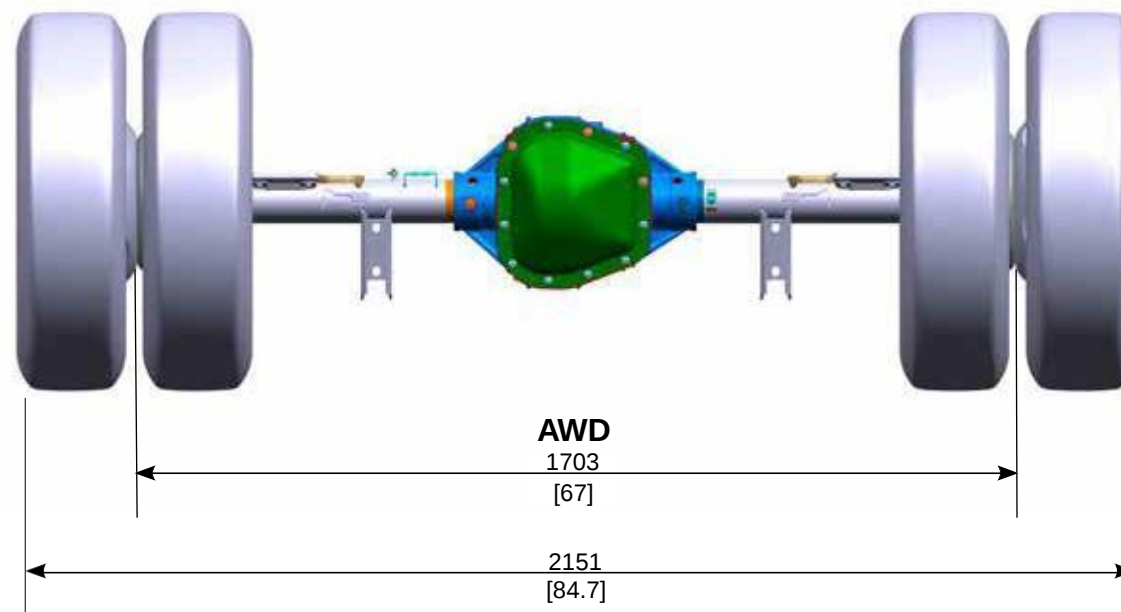
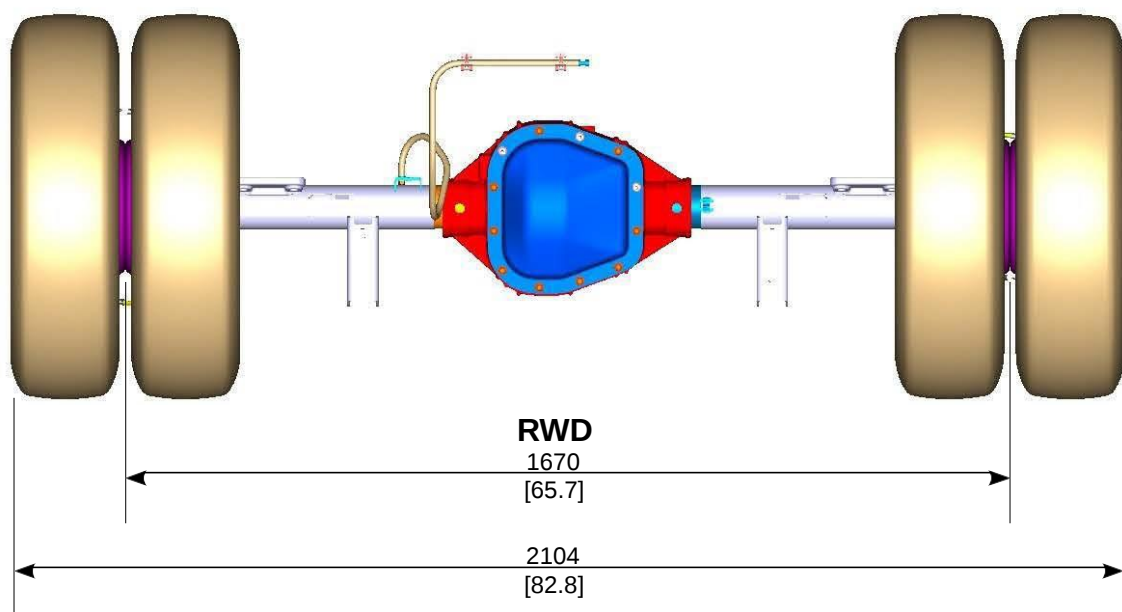
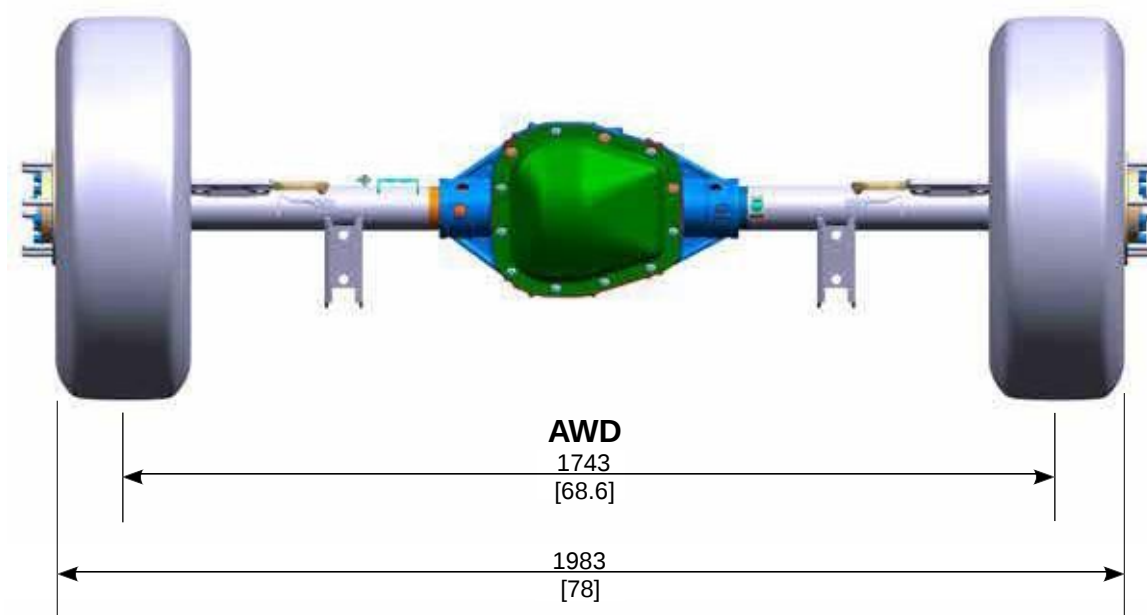
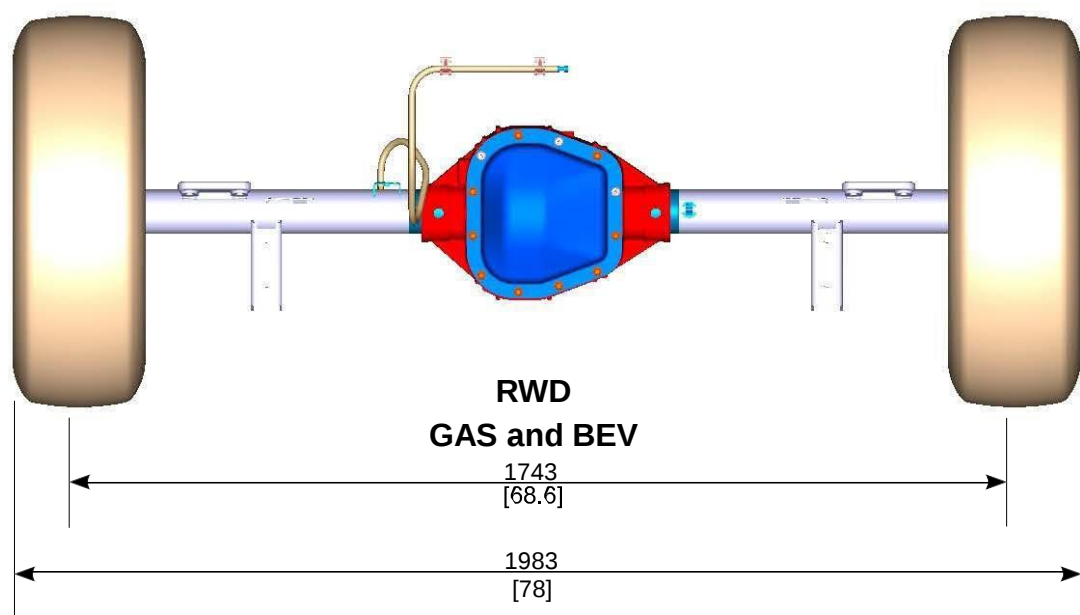


Van



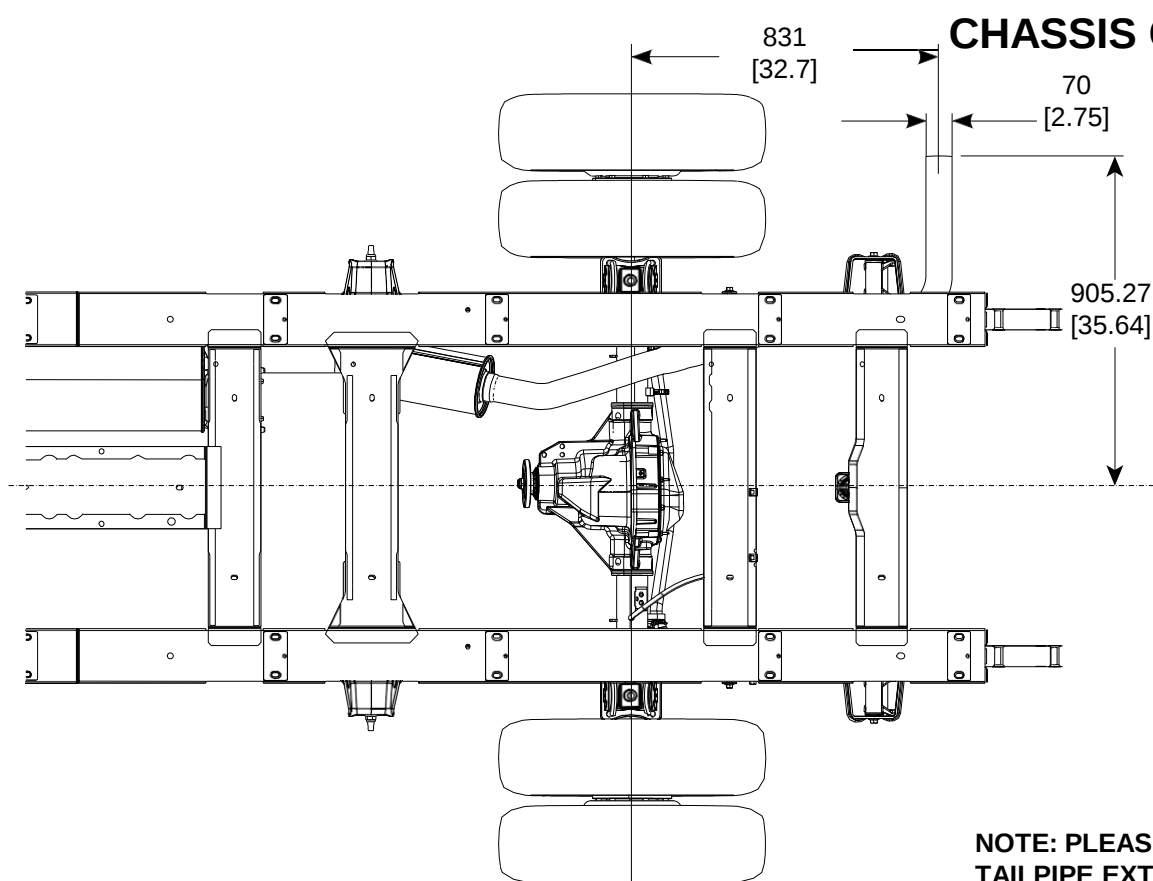
Reference the IVM for Transit/E-Transit Statements

TRANSIT REAR AXLE TRACK DIMENSIONS SRW & DRW

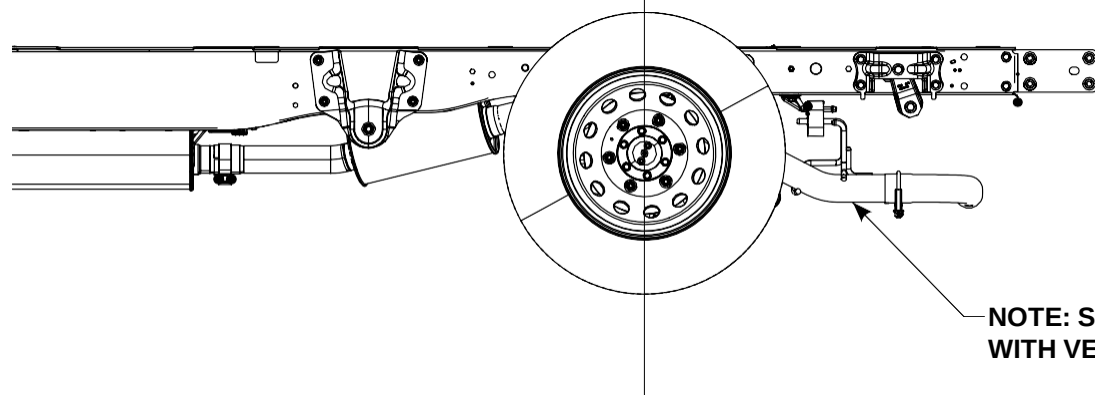


NOTE — [] DIMENSIONS ARE INCHES.

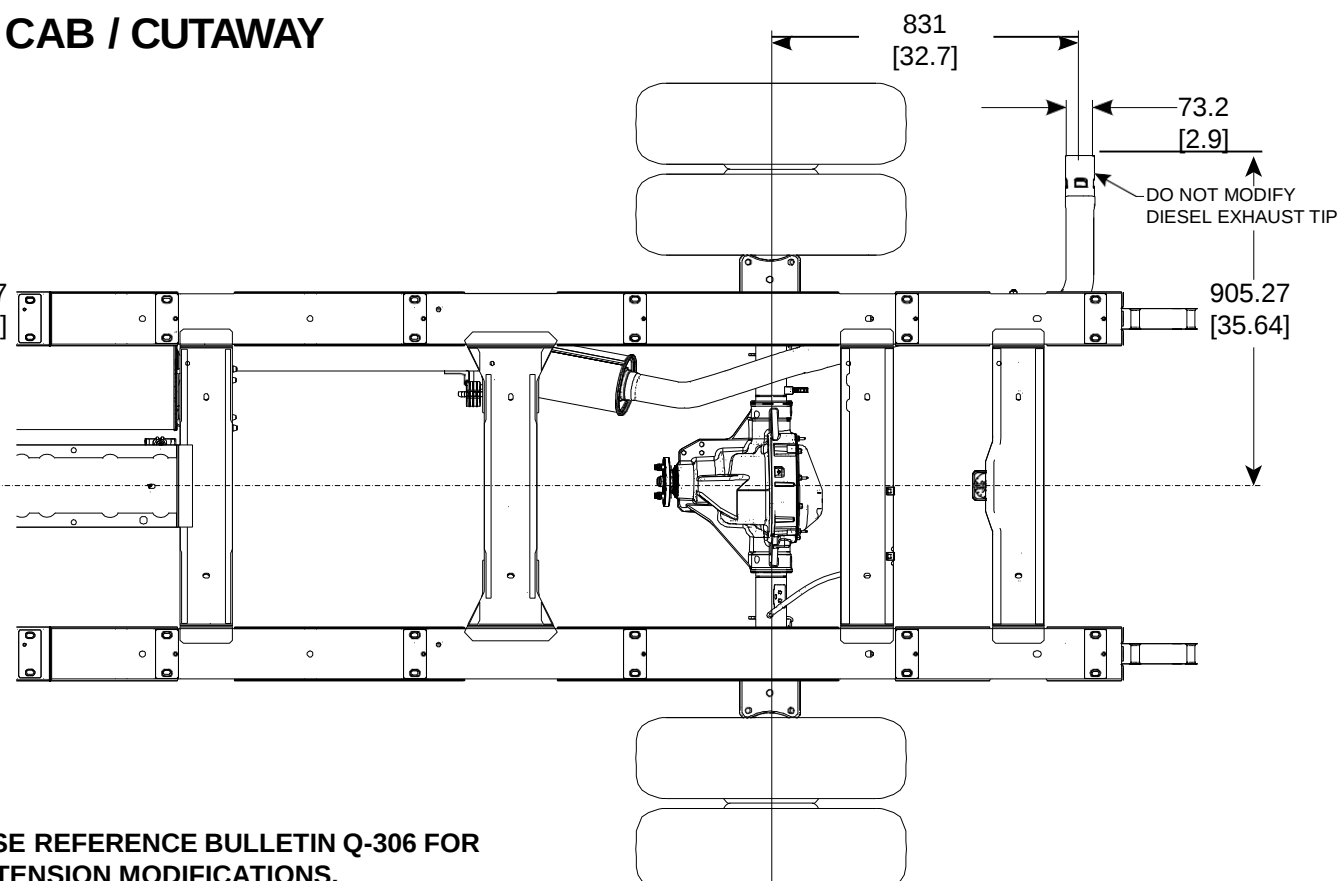
TRANSIT EXHAUST EXTENSION KIT CHASSIS CAB / CUTAWAY



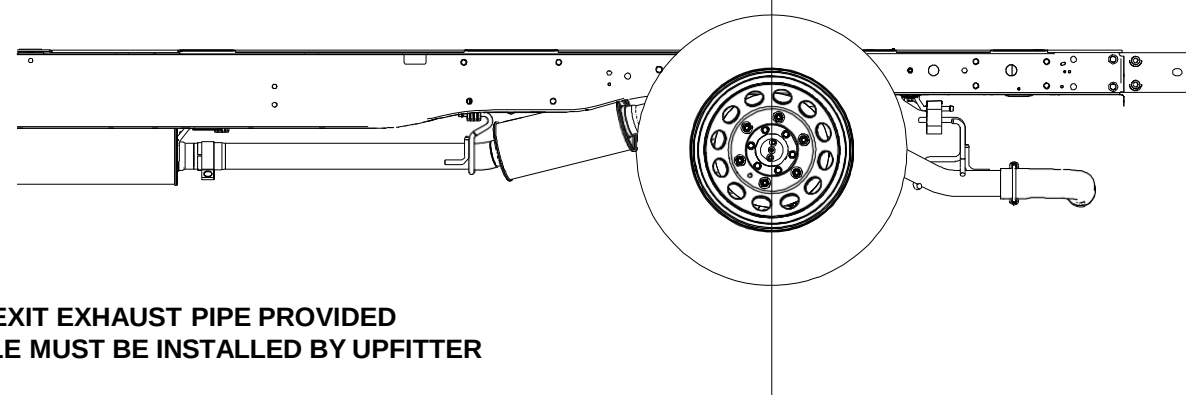
NOTE: PLEASE REFERENCE BULLETIN Q-306 FOR
TAILPIPE EXTENSION MODIFICATIONS.



TRANSIT EXTENDED EXHAUST
GASOLINE ENGINE
ALL WB CHASSIS CAB / CUTAWAY



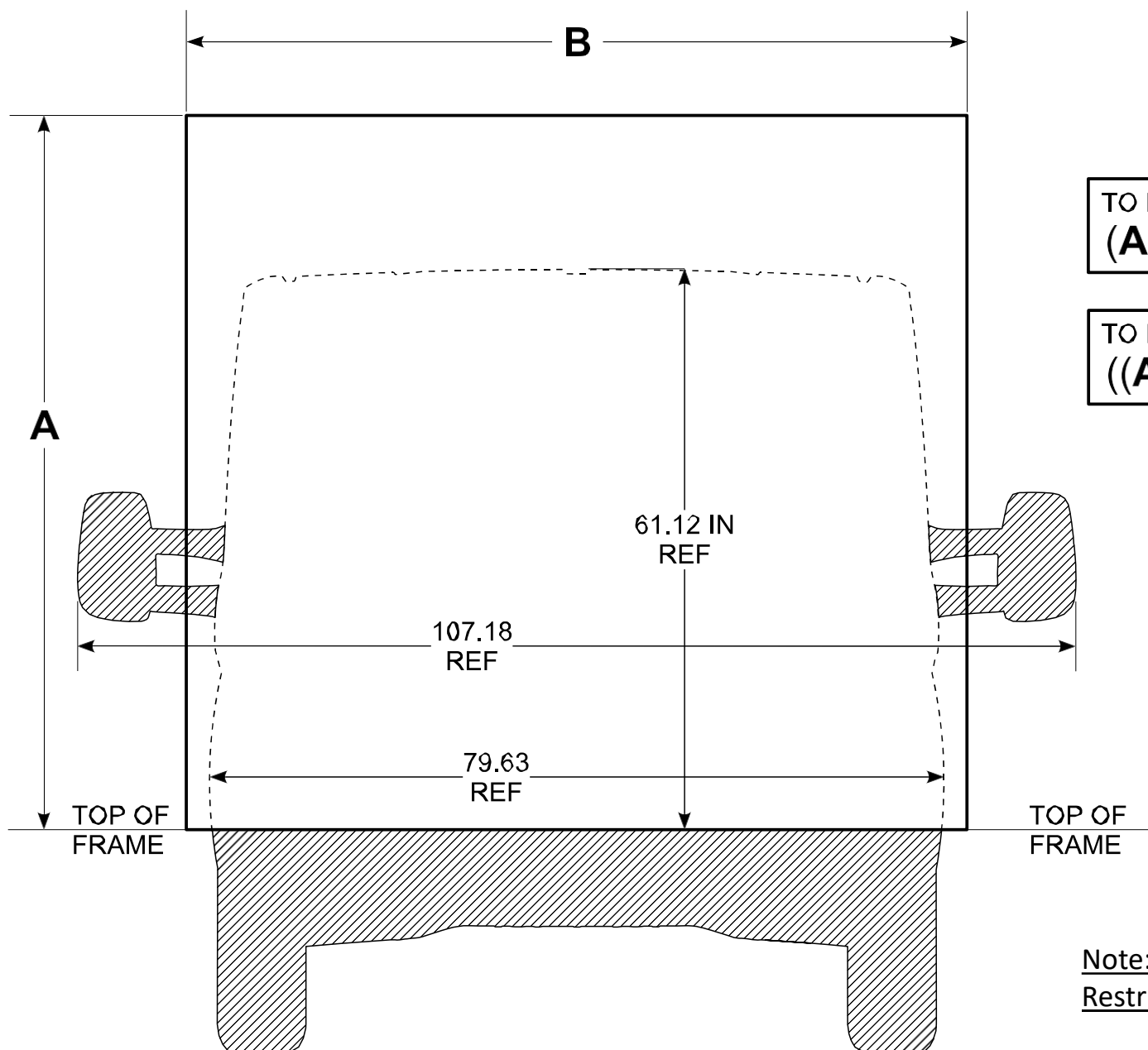
NOTE: SIDE EXIT EXHAUST PIPE PROVIDED
WITH VEHICLE MUST BE INSTALLED BY UPFITTER



TRANSIT EXTENDED EXHAUST
DIESEL ENGINE
ALL WB CHASSIS CAB / CUTAWAY

NOTE — [] DIMENSIONS ARE INCHES.

TRANSIT FRONT SURFACE AREA WORKSHEET CHASSIS CAB / CUTAWAY



A = BOX HEIGHT (INCHES)

B = BOX WIDTH (INCHES)

TO FIND FRONT SURFACE AREA (SQ. INCHES):
(A X B) + 1429.7 = _____

TO FIND FRONT SURFACE AREA (SQ. FEET):
((A X B) / 144) + 9.93 = _____

Note: Reference the IVM for Transit and E-Transit Frontal Area Restrictions

Below Frame Shaded Area =

728601 / (25.4 X 25.4) = 1129.3338 SQ. IN.
1129.3338 / (12 X 12) = 7.8426 SQ. FT.

Mirror Shaded Area =

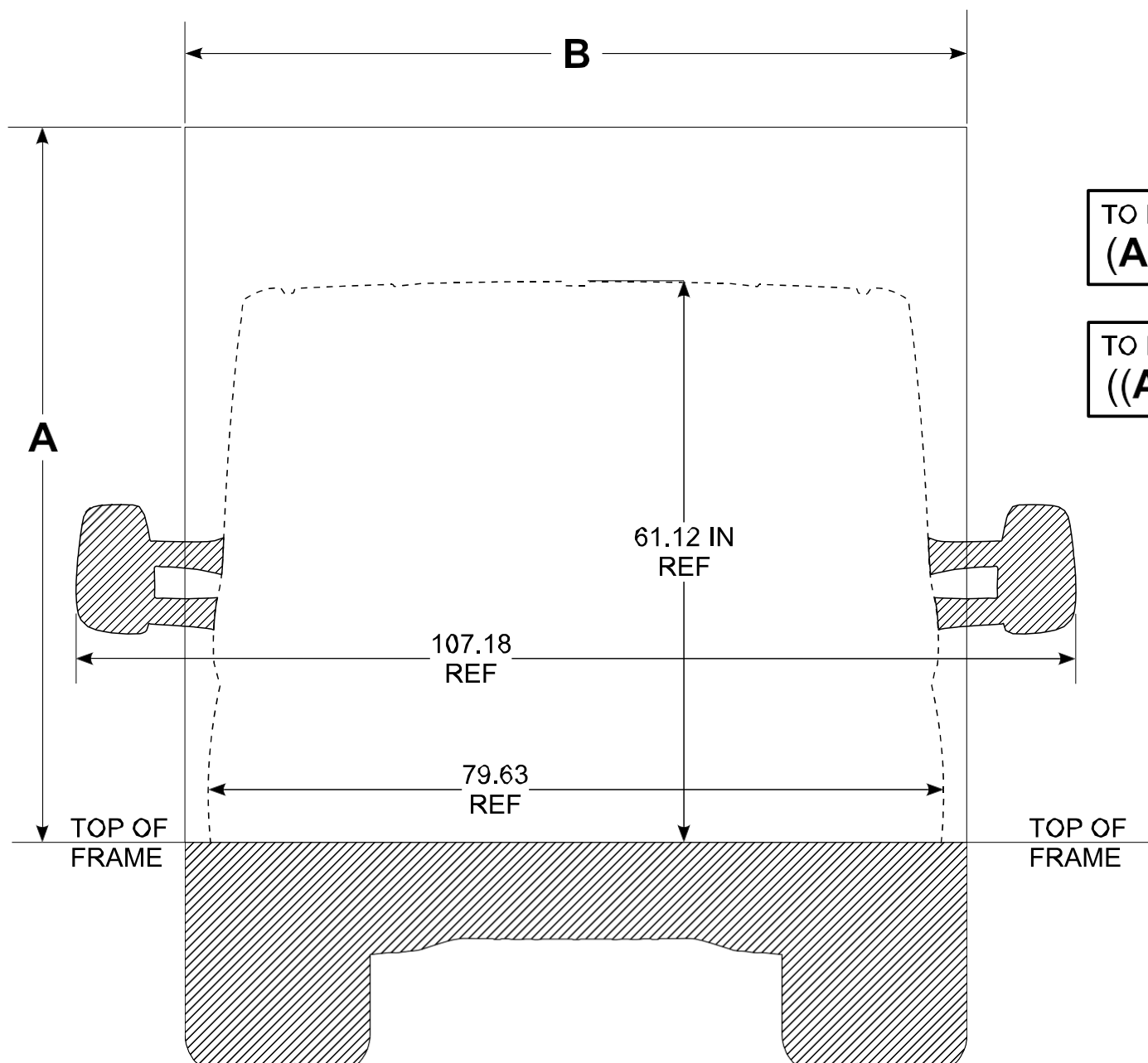
(96882.4 X 2) / (25.4 X 25.4) = 300.3360 SQ. IN.
300.3360 / (12 X 12) = 2.0857 SQ. FT.

Total Shaded Area =

922365.8 / (25.4 X 25.4) = 1429.6698 SQ. IN.
1429.6698 / (12 X 12) = 9.9282 SQ. FT.

SRW TRANSIT CC/CA FRONT SURFACE AREA WORKSHEET GAS AND BEV VARIANTS

TRANSIT FRONT SURFACE AREA WORKSHEET CHASSIS CAB / CUTAWAY (CONT'D)



A = BOX HEIGHT (INCHES)

B = BOX WIDTH (INCHES)

TO FIND FRONT SURFACE AREA (SQ. INCHES):
(A X B) + 1715.6 = _____

TO FIND FRONT SURFACE AREA (SQ. FEET):
((A X B) / 144) + 11.91 = _____

Below Frame Shaded Area =

913123.8 / (25.4 X 25.4) = 1415.3447 SQ. IN.
1415.3447 / (12 X 12) = 9.8287 SQ. FT.

Mirror Shaded Area =

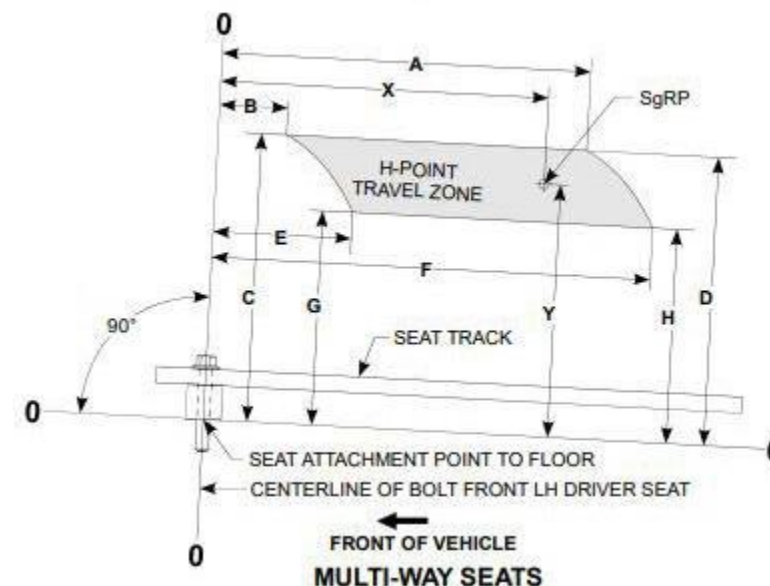
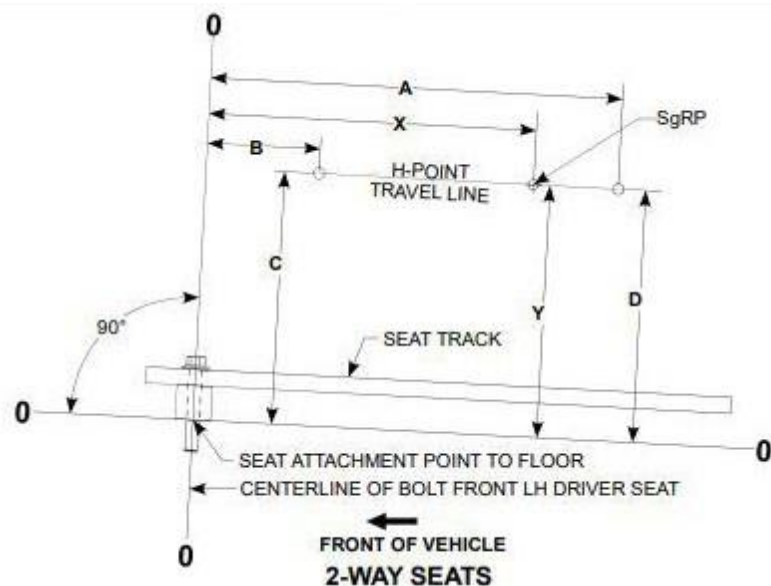
(96882.4 X 2) / (25.4 X 25.4) = 300.3360 SQ. IN.
300.3360 / (12 X 12) = 2.0857 SQ. FT.

Total Shaded Area =

1106888.6 / (25.4 X 25.4) = 1715.6808 SQ. IN.
1715.6808 / (12 X 12) = 11.9144 SQ. FT.

DRW TRANSIT CC/CA FRONT SURFACE AREA WORKSHEET

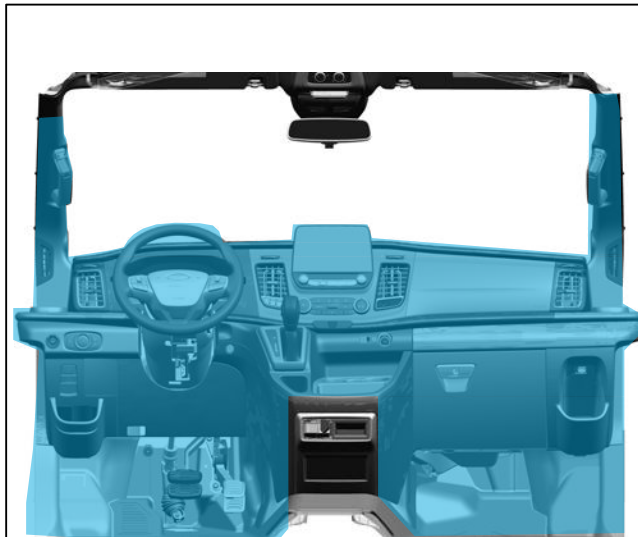
TRANSIT SEAT H-POINT ALL MODELS



SEAT TRAVEL DATA										
Seat Model	Seat Dimensions								SgRP Location	
	A	B	C	D	E	F	G	H	X	Y
2-Way Seat	302 [11.9]	54 [2.1]	449 [17.7]	449 [17.7]					261 [10.3]	449 [17.7]
4-Way Swivel	301 [11.9]	53 [2.1]	476 [17.7]	476 [17.7]	45 [1.9]	294 [11.6]	446 [17.9]	446 [17.9]	261 [10.3]	449 [17.7]
10-Way Seat	293 [11.5]	44 [1.7]	479 [18.9]	479 [18.9]	35 [1.4]	284 [11.2]	400 [15.7]	400 [15.7]	261 [10.3]	449 [17.7]
Seat Track Angle To Top Of Frame = 2.4 °										

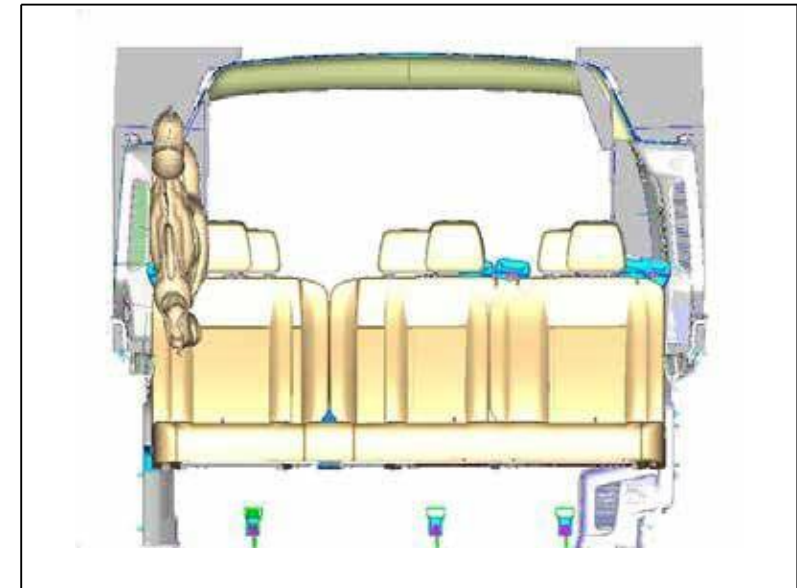
NOTE — [] DIMENSIONS ARE INCHES.

TRANSIT AIRBAG OCCUPANT PROTECTION ZONES TYPICAL

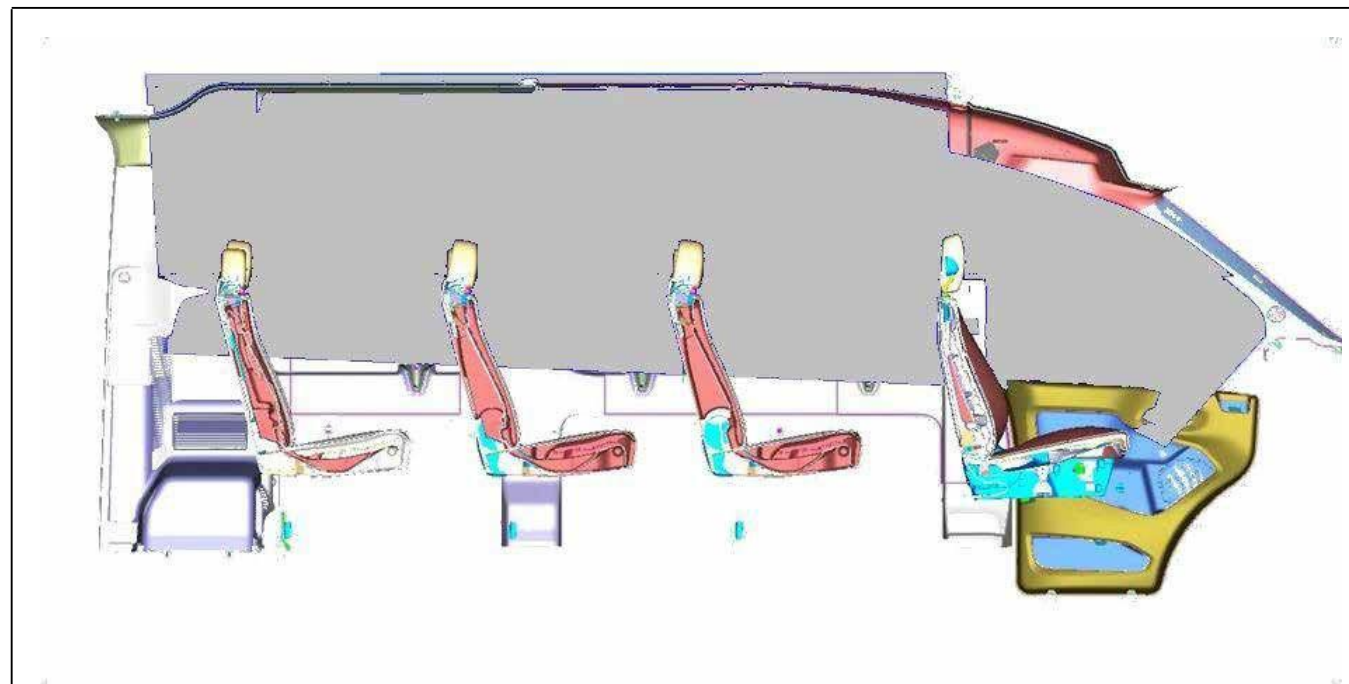


DO NOT INSTALL ADDITIONAL COMPONENTS IN THE
SHADED AREAS, NOR ALTER OR MODIFY THESE AREAS

TRANSIT OCCUPANT PROTECTION ZONE



TRANSIT OCCUPANT PROTECTION ZONE



TRANSIT OCCUPANT PROTECTION ZONE (TYPICAL)

Side curtain airbags are standard on Transit cargo vans starting in 2016 model year. Upfitters installing aftermarket partitions / Bulkheads must ensure that installations do not interfere with side curtain airbag deployment.

Medium and High Roof Recommendations: Partitions or Bulkheads installed in Transit Vans must not interfere with airbag deployment zones. CAD Data (Figure 1) of the Medium and High roof Airbag keep-out Zones is available upon request. Partitions / Bulkhead should be positioned rearward of the prescribed keep-out zone. Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be as close to the edge and the forward attaching face of the partition / bulkhead should have no exposed protruding fasteners or sharp edges.

Low roof recommendations: Partitions and Bulkheads need to be positioned at or rearward of the front headliner/B-pillar trim surface while maintaining existing headliner and B-pillar surface. Bulkhead cannot attach directly to the headliner to ensure proper airbag deployment. (See figures 2 and 3) Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be as close to the edge and the forward attaching face of the Partition/Bulkhead should have no exposed protruding fasteners or sharp edges.

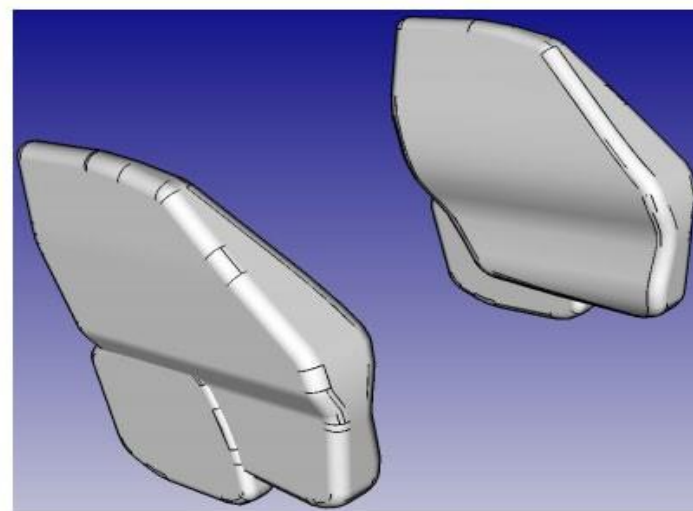


Figure 1: Airbag Keep-out zones (Medium and High roof)

Seat Belt Retractor Damage

When fastening any aftermarket equipment to the B-Pillar (such as a bulkhead or partition), the modifier must ensure that drilling operations and/or fasteners do not damage the seatbelt retractor. Damage to the seat belt retractor caused by a vehicle modifier is not a warrantable charge.

See Fig. 4 Below

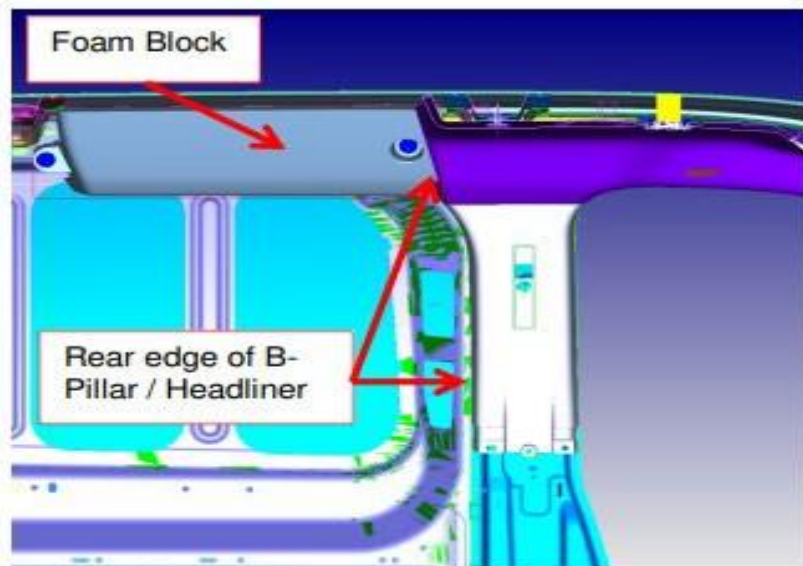


Figure 2

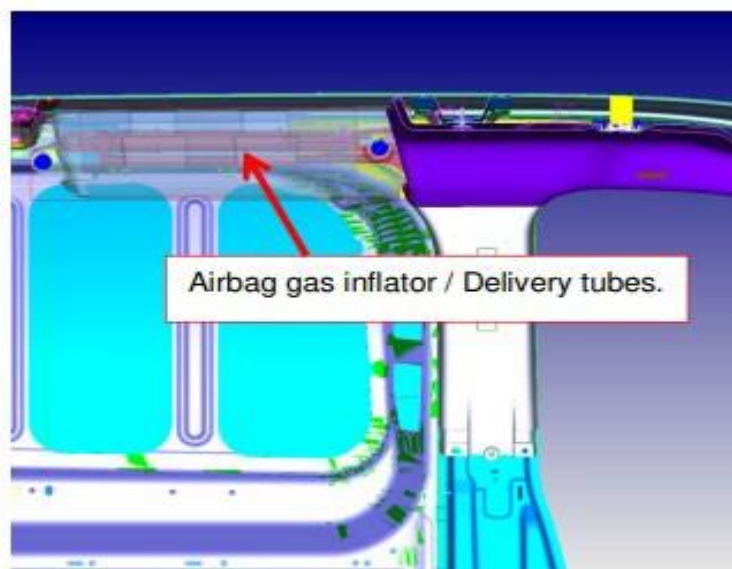


Figure 3

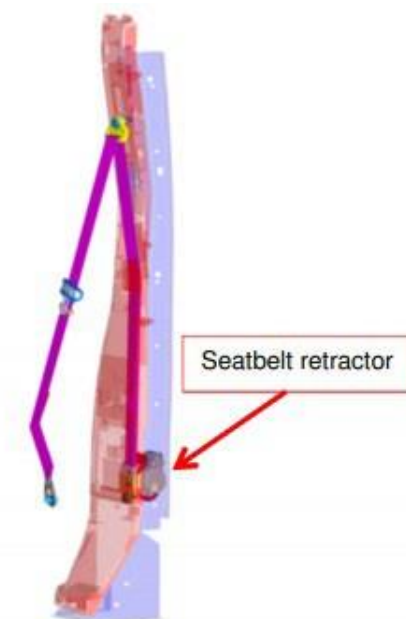


Figure 4: Seat Belt retractor location (Left side Shown)



TRANSIT CLIMATE CONTROL GREEN HOUSE GAS EVAPORATIVE EMISSIONS

Pursuant to California regulation 17 CCR §95663 , and EPA 40CFR 1037.115(e) the specific leakage for this vehicle (as built by Ford Motor Company) is shown in the table below (see “J2727 Leakage Value” column). If the vehicle air conditioning system is modified in any way, or air conditioning systems are added, the intermediate or final-stage manufacturer must calculate the final system leakage. If desired, the spreadsheet used by Ford to calculate the J2727 Leakage is available and can be edited to reflect the modified system. Please contact Ford BBAS to request a copy of the vehicle line specific GHG Evaporative Emissions Worksheet: <https://fordbbas.com>

MY	Vehicle Line	Features /Models	Evaporator	Powertrain	Refrigerant	Charge Size of A/C System (kg)	J2727 Leakage Value (g/yr)	Max Allowed Leakage
2022	Transit	all	Single	3.5L TiVCT & 3.5L GTDI	R-134a	0.85	7.112	12.75
2022	Transit	Regular WB	Dual	3.5L TiVCT V6	R-134a	1.425	7.921	21.375
2022	Transit	Long WB.	Dual	3.5L TiVCT V6	R-134a	1.425	8.013	21.375
2022	Transit	Long WB	Dual	3.5L TiVCT V6	R-134a	1.425	8.055	21.375
		Extended Length						
2022	Transit	Regular WB	Dual	3.5L GTDIV6	R-134a	1.425	7.921	21.375
2022	Transit	Long WB.	Dual	3.5L GTDIV6	R-134a	1.425	8.013	21.375
2022	Transit	Long WB	Dual	3.5L GTDIV6	R-134a	1.425	8.055	21.375
		Extended Length						
2022	Transit	Prep Pack	Single	3.5L TiVCT & 3.5L GTDI	R-134a	0.85	7.236	12.75
2022	E-Transit	Transit BEV	Dual	Electric Vehicle	R-134a	0.9	4.52	13.5

TRANSIT - ELECTRICAL TRAILER TOW WIRING HARNESS

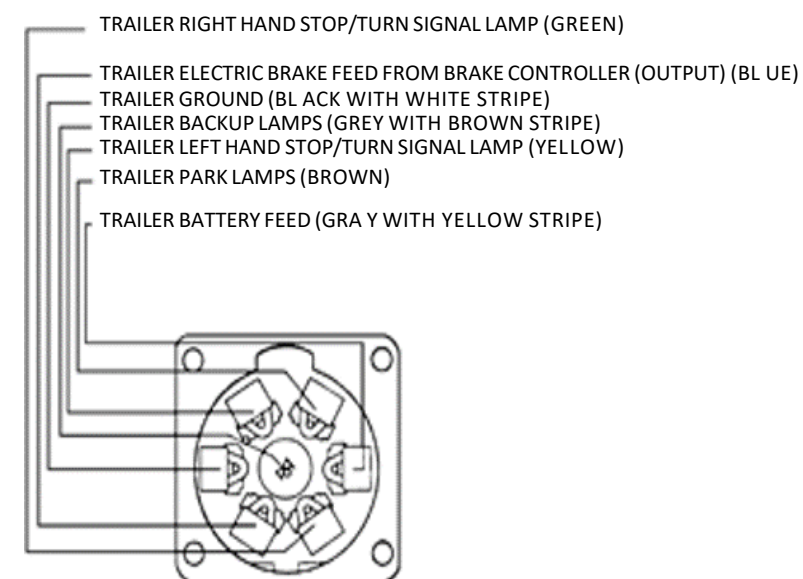
2021 Transit - Trailer Towing Wiring Harness

[Specs](#) > Electrical

Circuit Number	Circuit Description	Color Code
CAT28C	Left stop/Turn indicator	Yellow
GD476	Ground	Black & White
CAT19D	Trailer brake control	Blue
CAT29C	Right stop/Turn indicator	Green
CAT23C	Battery charger	Grey & Yellow
CAT17E	Park/Running lights	Brown
CAT16C	Back up lights	Grey & Brown

7-PIN HARNESS

FUNCTION (WIRE COLOR CODES)



TRANSIT SEIC / PTO OPERATION

Stationary Elevated Idle Control (SEIC)

- A powertrain control module (PCM) strategy that provides elevated engine speed to drive auxiliary commercial equipment such as hydraulic pumps, generators, air compressors; or maintain vehicle battery charge under extreme electrical demands.
- SEIC is standard on Transit for use with FEAD mounted PTOs

Customer Access Wires for SEIC and VSO/CTO/PARK Signals

- Located in the engine compartment, see pictures below
- The final-stage manufacturer or up-fitter is required to supply the customer interface equipment.

SEIC Operation

- Intended to be commanded ONLY by applying battery voltage to certain customer-access blunt-cut wire circuits, and adding a target-speed resistor, and is only available when the vehicle road speed signal is zero.
- Includes a link circuit which changes from open-circuit to ground when enablers are met, that may be used to turn on an indicator lamp, while providing battery power to an aftermarket PTO clutch or solenoid.
- Ramp rates are fixed and cannot be altered by the customer.
- Minimum engine speed – ~ 800 RPM
- Maximum engine speed – 2400RPM

Typical SEIC engagement Sequence

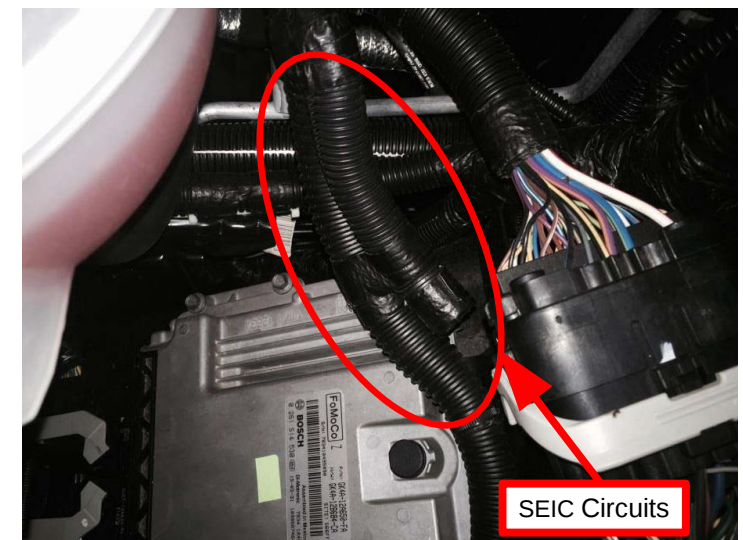
Initiating SEIC by applying battery voltage to the SEIC-PTO wire immediately commands the PCM to first look for enabling conditions, such as vehicle gearshift selector in PARK, engine at base idle speed of about 650 rpm, etc. A complete list of enablers is provided in the "SEIC Enable/Disable Conditions" section of this bulletin. Once enablers are satisfied then the following takes place:

1. Command is sent to increase engine speed to 900 rpm standby.
2. The low-side driver circuit changes from open-circuit to ground.
3. Engine speed increases to the target RPM determined by resistor (see Resistor Chart).

Special Situations - Alternative Calibration

All new Ford vehicles have an "Alternative Calibration" or ALT-CAL installed in the PCM that conditions the powertrain during its early lifetime. It may increase the PARK-idle or drive-idle speed of the engine, by as small as 50 rpm or by several hundred. It affects SEIC initiation by not letting it activate, because one of the SEIC enablers is having a steady idle speed, generally near 650 rpm. If ALT-CAL sets the idle at 700 rpm then SEIC activation will be prevented. ALT-CAL is normally removed after 50 key-on starts, or by driving over 5 continuous miles; it is also sometimes erased by disconnecting the battery.

SEIC Circuit Locations



TRANSIT ENGINE COMPARTMENT

SEIC Circuit Location – found under hood, wrapped in convolute, taped to harness behind coolant reservoir

Special Situations - Battery Charge Protect

Battery charge protect mode is available on 3.5L Gas and 3.5L GTDI gas engine models. On these powertrains, Battery Charge protect mode is determined through resistor selection (see resistor chart). Note: PTO RPM REQ must have a voltage input between .16 and .20 for BCP to function. When it is switched on the engine speed goes immediately to 600. From this state, the PCM uses battery voltage as well as ambient air temp., engine oil temperature information to raise engine speed higher to maintain a certain battery charge. Maximum engine speed in BCP mode is 1200 rpm. Loss of an operating condition after BCP is engaged will require the BCP switch to be cycled before BCP will re-engage.

SEIC Enable/Disable Conditions

Vehicle Conditions to Enable SEIC (all are required)	Vehicle Conditions that Disable SEIC (any one required)	Gas Engine
Parking brake applied.	Parking brake disengaged.	Yes
Foot off of service brake	Depressing service brake	Yes (See Note-2)
Vehicle in PARK (automatic trans.)	Vehicle taken out of PARK	Yes
Foot off of accelerator pedal		Yes
Vehicle speed is 0 mph (stationary)		Yes
Engine at a stable base idle speed		Yes (See Note-1)
	Transmission Oil Temperature (TOT) Limit exceeds 240 degrees F.	Yes (See Note-2)
Engine Coolant Temperature (ECT) 40° F minimum	Engine Coolant Temperature Limit (ECT)	Yes (See Note-2)
	Catalyst Temperature Limit	Yes (See Note-2)

Note-1: If a SEIC disabling condition occurs, the engine must be allowed to reach stable base idle before the system can be re-initiated. This could take up to 15 seconds. If an attempt is made to reinitiate SEIC before the engine has reached a stable base idle SEIC will not engage. The operator will have to turn SEIC off and then back on once the vehicle has reached a stable base idle.

Note-2: A "change-of-state" at both the "PTO_REQUEST (PTO)" and "PTO_ENGAGE" circuits is required to re-invoke SEIC. When a disabler is seen by the PCM, the "PTO_OK (PTO_IND)" circuit changes from "ground-source" to "open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. To re-initiate SEIC the operator must turn off voltage to both the "PTO_REQUEST (PTO)" and "PTO_ENGAGE" circuits and turn it back on again.

SEIC Resistor Chart

3.5L Gas & 3.5L GTDI		
Engine Target Speed (RPM)	Resistor (Ohms) (5%, 1/4 watt)	Voltage (volts)
700	34467	0.60
800	23434	0.84
900	17251	1.07
1000	13295	1.31
1100	10548	1.54
1200	8528	1.78
1300	6981	2.01
1400	5758	2.25
1500	5240	2.48
1600	3947	2.664
1700	3258	2.95
1800	2671	3.19
1900	2164	3.42
2000	1723	3.66
2100	1335	4.13
2200	991	4.13
2300	684	4.36
2400	409	4.60
2500	-	
BCP		
700-1200*	100k Ohm	

*RPM varies as a function of battery charge state- see BCP description

SEIC General System Behavior

If an SEIC enabling condition is not met upon SEIC initialization:

- SEIC will not initiate. SEIC will require a "change-of-state" (voltage to both the "PTO_REQUEST" and "PTO_RELAY Output" circuits removed completely.) The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

If an SEIC disabler occurs:

- The "PTO_RELAY Output" circuit changes from "ground-source" to "open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. SEIC will require a "change-of-state" (voltage to both the "PTO_REQUEST (PTO)" and "PTO_RELAY Output"). The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

SEIC/PTO strategy function in the PCM is not affected by the loss of vehicle battery electrical power. SEIC

Ramp Rate (fixed, not programmable):

- 200 rpm/second.

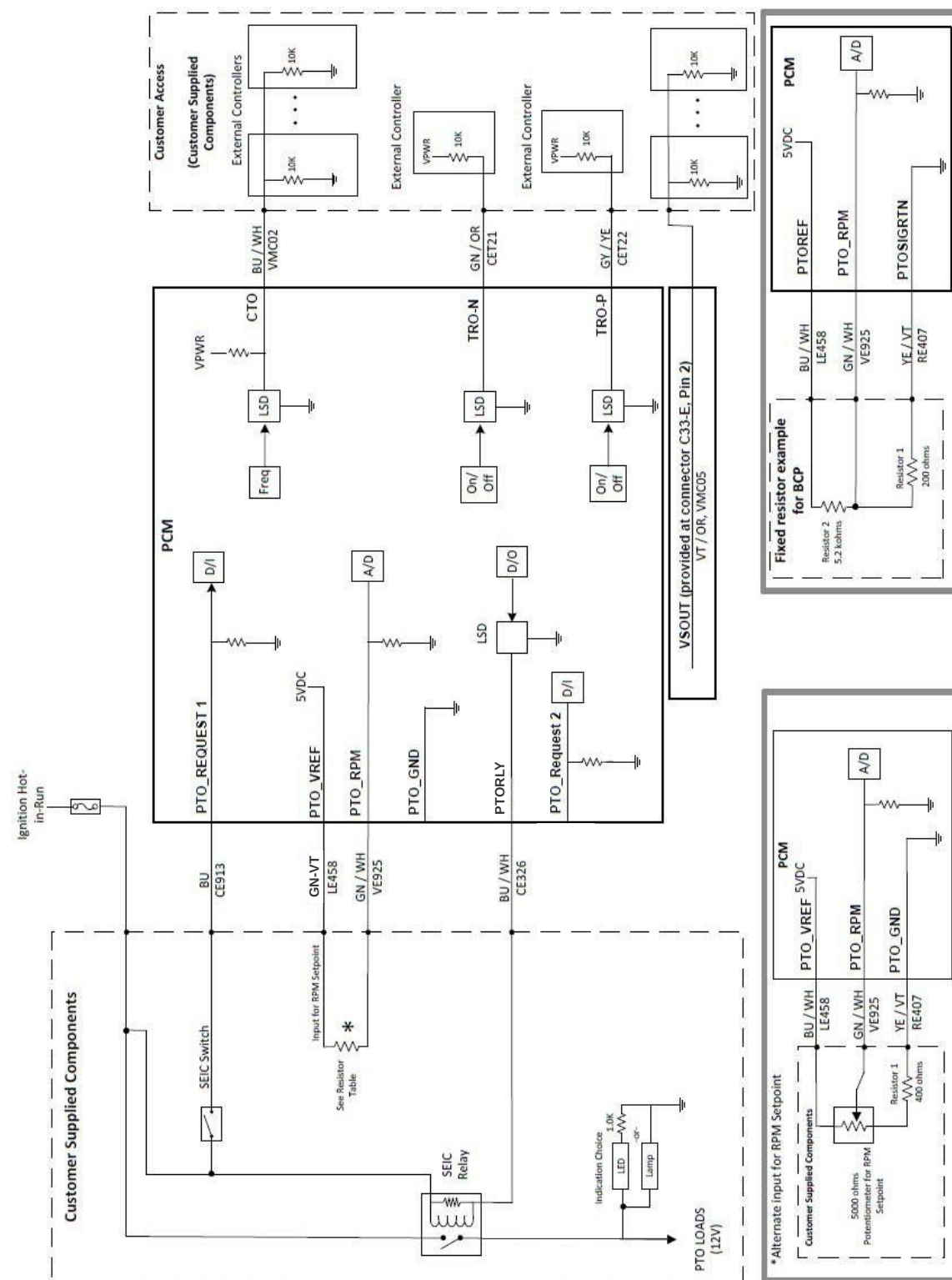
Correlation between engine speed and resistor values:

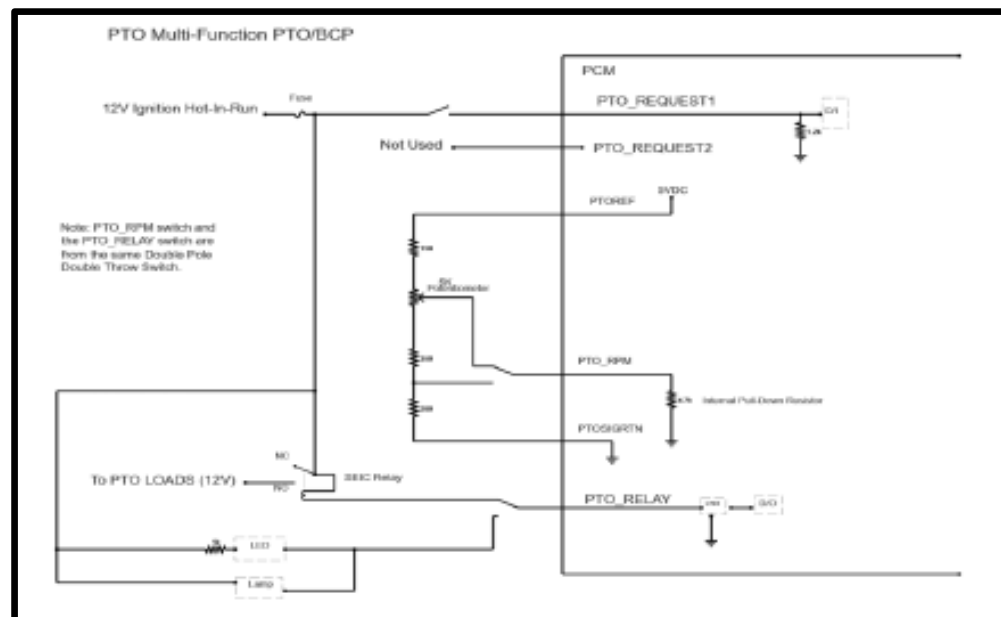
- The external voltage source that the aftermarket PTO system designer uses to command SEIC through the "PTO" or "PTO-REQUEST" circuits must be the same as that used by the PCM internally for predictable SEIC function. Reasoning is that a fully-charged vehicle battery fluctuates with ambient temperature.
- If there is a high electrical demand on the chassis battery, such as from aftermarket inverters or generators, etc., the actual elevated idle engine speed may vary with that demand for any given resistance in the SEIC circuit.
- Normal base engine calibration allows approximately +/-50 rpm fluctuation. If any factory vehicle accessories are used during SEIC, e.g. a/c, defroster, etc., then that fluctuation may increase to approximately +/-100 rpm or more.
- The sudden loss of aftermarket PTO hydraulic pressure during SEIC/PTO operation, like a ruptured hose, may send SEIC engine speed to near 3000 rpm. It is recommended that a hydraulic pressure switch linked to SEIC/PTO be added to disable SEIC/PTO when a hose ruptures.
- Because of a service brake circuit characteristic at engine-start, invoking SEIC may cause the diagnostic error code FFG_BOO to get flagged (recorded in the PCM). To avoid this, simply tap the service brake pedal sometime after engine-start and prior to invoking SEIC. Once the code is set, SEIC may not be available until it is erased.
- Gas engines require a "change-of-state" at the PTO-REQUEST (PTO) and PTO_RELAY Output circuits whenever a disabler turns off SEIC (remove battery voltage signal and re-apply).
- For aftermarket remote engine start-stop: a change-of-state is required to get SEIC to function again.

TRANSIT

SEIC / PTO Schematics

3.5L Gas & 3.5L GTDI Engines

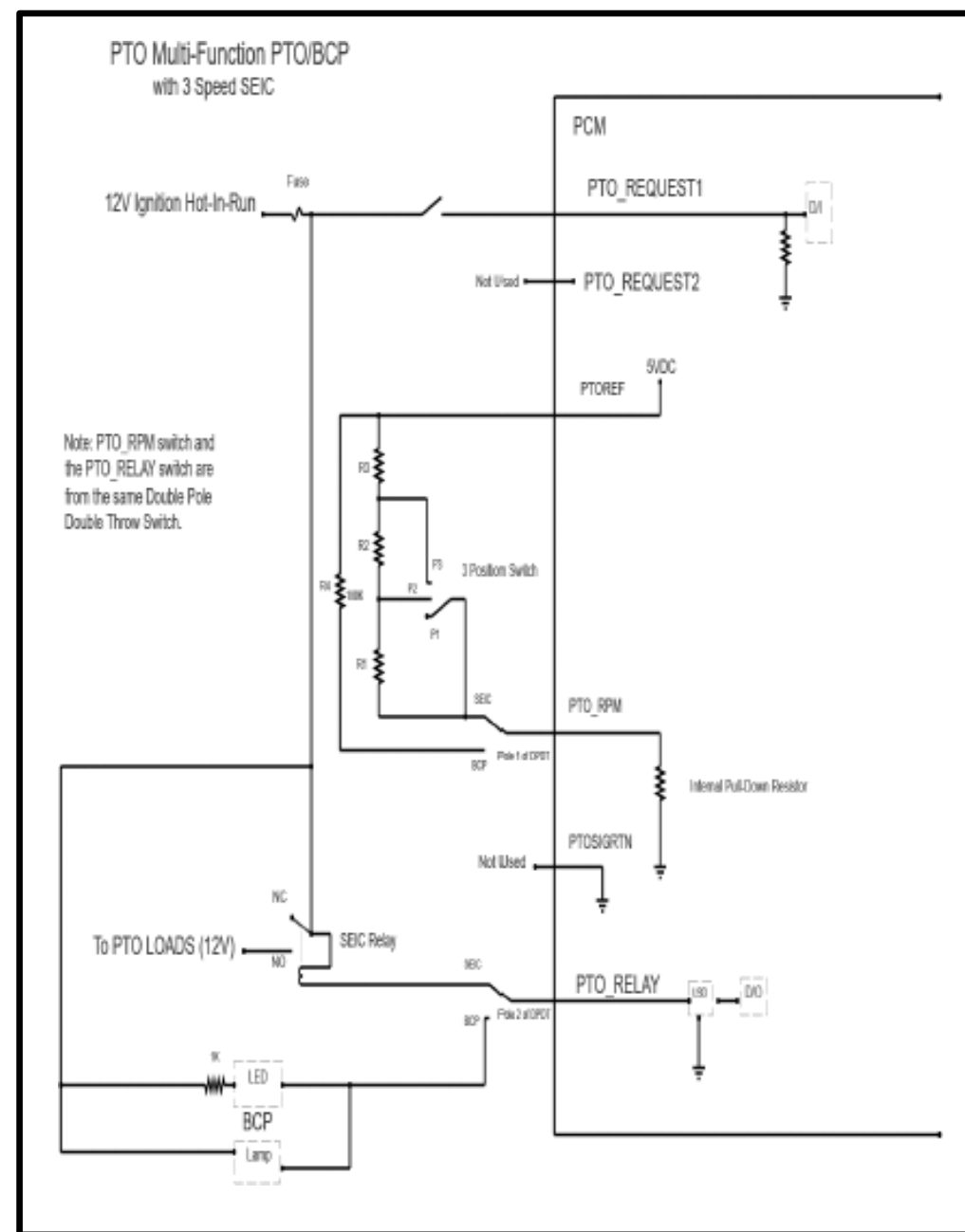




Customer Access Signal Circuit Descriptions

Refer to the Body Equipment Mounting Manual for more information.

Circuit Intent	Wire Tag	Description
OUTPUT Park-Only	TRO-P	3.5L - PCM Pin C1551B-40 Circuit No. CET22 Wire Color: Gray / Yellow 3.7L - PCM Pin C175B-19 Circuit No. CET22 Wire Color: Gray / Yellow
OUTPUT Neutral-Only	TRO-N	3.5L - PCM Pin C1551B-81 Circuit No. CET21 Wire Color: Green / Orange 3.7L - PCM Pin C175B-43 Circuit No. CET21 Wire Color: Green / Orange
OUTPUT Vehicle Speed	VSOUT	Circuit No. VMC05 Connector: C33-E Pin:4 See BEMM for signal specification.
OUTPUT Engine Speed	CTO	3.5L - PCM Pin C1551B-40 Circuit No. VMC02 Wire Color: Blue / White 3.7L - PCM Pin C175B-19 Circuit No. VMC02 Wire Color: Blue / White
PASS-THRU		Circuit No. CAC17 • Found at: - Vehicle interface connector C11-H (4-pin connector), Pin #2, at firewall on driver side of the engine compartment - Vehicle interface connector C12-A (6-pin connector), Pin #1, behind left side of center stack. - Requires modified vehicle wiring option (53K)
PASS-THRU		Circuit No. CAC18 • Found at: - Vehicle interface connector C11-H (4-pin connector), Pin #3, at firewall on driver side of the engine compartment - Vehicle interface connector C12-A (6-pin connector), Pin #2, behind left side of center stack. - Requires modified vehicle wiring option (53K)





SEIC Circuit Descriptions

All circuits lead back to pins on the PCM

Circuit Intent	Wire Tag	Description
INPUT (VPWR)	PTO_REQUEST1 (Gas Engines) PTO_NO (Diesel Engine)	3.5L GTDI- PCM Pin C1551B-87 Circuit No. CE913 Wire Color: Blue 3.5L Gas - PCM Pin C175B-84 Circuit No. CE913 Wire Color: Blue - Applying vehicle battery voltage to this wire begins SEIC process. - Signals PCM to enter SEIC strategy. - Verifies safety enablers. - Elevates engine speed to target found at PTO-RPM circuit. - Invokes the PTOIL circuit when safety enablers are met. - Looks for the target engine speed requested at the PTO_RPM circuit using a resistor or POT.
INPUT (VPWR)	PTO_REQUEST2	3.5L GTDI - PCM Pin C1551B-91 Circuit No. VE935 Wire Color: Green 3.7L Gas - PCM Pin C175B-88 Circuit No. VE935 Wire Color: Green RPM Increase Command Monitor
OUTPUT	PTORLY	3.5L GTDI - PCM Pin C1551B-80 Circuit No. CE326 Wire Color: Green/Violet 3.5L Gas - PCM Pin C175B-96 Circuit No. CE326 Wire Color: Green/Violet - A low-side driver, changing from "open-circuit" to "ground" indicating that the engine is ready for the PTO operation to begin and that a PTO load may be applied. - Intended for powering a PTO indicator lamp, or turn on a relay coil (not to exceed 1 amp). LED lights require adding a resistor in series.
INPUT (resistor)	PTO_RPM	3.5L GTDI - PCM Pin C1551B-33 Circuit No. CE925 Wire Color: Green / White 3.5L Gas - PCM Pin C175B-85 Circuit No. CE925 Wire Color: Green / White - Add a resistor or a potentiometer to obtain fixed or variable engine target speed. - Combine in circuit with PTO_VREF (+5V). - Speed range available: 910 rpm to 2400 rpm
OUTPUT	PTO_VREF	3.5L GTDI - PCM Pin C1551B-11 Circuit No. LE458 Wire Color: Blue / White 3.5L Gas - PCM Pin C175B-52 Circuit No. LE458 Wire Color: Blue / White A 5-volt reference, buffered against shorts to ground or power, used to complete the resistor circuit for engine speed selection.
INPUT	PTO_GND	3.5L GTDI - PCM Pin C1551B-18 Circuit No. RE407 Wire Color: Yellow / Violet 3.5L Gas - PCM Pin C175B-51 Circuit No. RE407 Wire Color: Yellow / Violet A ground reference, buffered, used to complete the resistor circuit for engine speed selection when a potentiometer is used.

Battery Voltage Sources (VPWR)

Refer to the Body Equipment Mounting Manual for more information.

Circuit Intent	Wire Tag	Description
Hot-at-all-times		Circuit no. SB153 - A fused 40 amp circuit (F53). - Requires modified vehicle wiring option (53K) - Found at: - Vehicle interface connector C11-H (4-pin connector), Pin #4, at firewall on driver side of the engine compartment - Vehicle interface connector C12-A (6-pin connector), Pin #3, behind left side of center stack. - Vehicle interface connector C33-C (6-pin connector), Pin #3, behind Passenger side airbag, above glove box. Circuit no. SB118 Connector: C33-C Pin:6 - A fused 40 amp circuit (F18). - Found: at vehicle interface connector C33-C (6-pin connector), Pin #6, behind Passenger side airbag, above glove box. - Requires modified vehicle wiring option (53K) Customer Connection Point - A fused 60 amp VBATT feed. - Found: at right side rear of driver seat pedestal.
Ignition Hot-in-RUN		Circuit no. CB121 Connector: C33-E Pin:6 - A fused 10 amp circuit. - Found: at vehicle interface connector C33-E (6-pin connector) on right side of driver seat pedestal beneath driver seat. Circuit no. CAC14 - A fused 40 amp circuit (F52). - Requires modified vehicle wiring option (53K) - Found at: - Vehicle interface connector C11-H (4-pin connector), Pin #1, at firewall on driver side of the engine compartment - Vehicle interface connector C12-A (6-pin connector), Pin #4, behind left side of center stack - Vehicle interface connector C33-C (6-pin connector), Pin #5, behind Passenger side airbag, above glove box.
Upfitter switch Output: Ign-Hot/ACC Found at vehicle interface connector C33-H (4-pin connector) on right side of driver seat pedestal beneath driver seat. •Requires Upfitter Switch Option 67C	Aux-1	[20-amp] Circuit No. CAC05 Connector: C33-H Pin:1
	Aux-2	[20-amp] Circuit No. CAC06 Connector: C33-H Pin:2
	Aux-3	[20-amp] Circuit No. CAC07 Connector: C33-H Pin:3
	Aux-4	[20-amp] Circuit No. CAC08 Connector: C33-H Pin:4

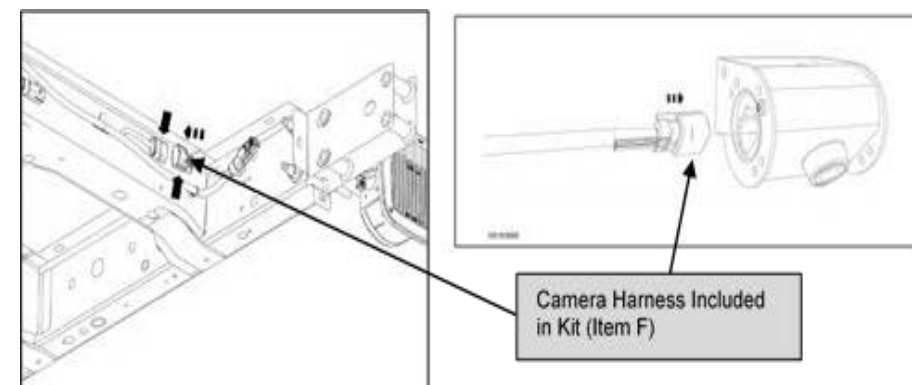
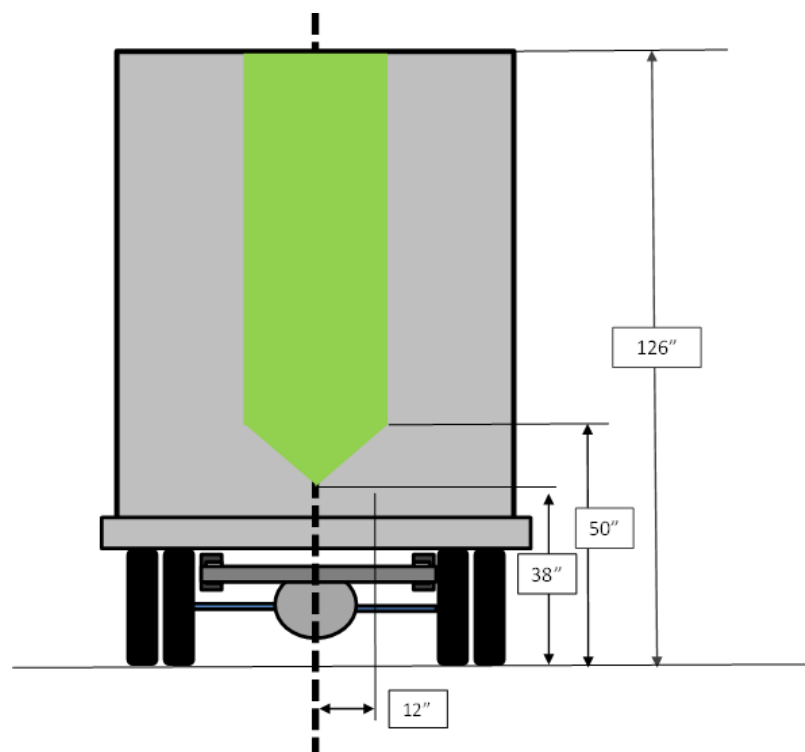
Ford Camera Kit Compliance Capability:

Ford has tested the rear view camera kit and all the camera/display pairings offered are capable of meeting the backup camera portion of FMVSS 111 when mounted in the zone defined below.

Compliance to FMVSS 111 will be the responsibility of the upfitter who alters the vehicle.

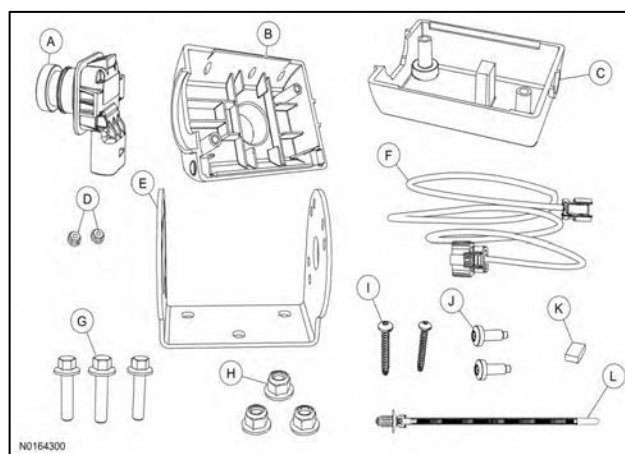
This information is provided for directional purposes only, based on testing done by Ford. If equipped with a rearview mirror display, 4 inch or 8 inch display the camera included in kit is capable of complying with FMVSS 111 rearview camera requirements when mounted in the areas defined in Figure 3.

Figure 3: Coverage with Rearview Mirror display , 4 inch display and 8 inch display- Please see the Order Guide for all available options



Rear view camera kit:- A rear view camera and prep kit for incomplete vehicles is available as an orderable option (order code 61A - see figures 1 and 2) with all Cutaway and Chassis Cab incomplete vehicles. The rearview mirror display is the standard display with option code 58T. The All other audio options will display in the multifunction screen.

If the back up camera kit (61A) is not ordered with the vehicle, it cannot be retrofit later.



Item	Quantity	Description
A	1	Rear View Camera
B	1	Front Camera Case Half
C	1	Rear Camera Case Half
D	2	Screw Retaining nuts
E	1	Mounting Bracket
F	1	Wire Harness
G	3	Bolts
H	3	Nuts
I	2	Screws (Longer)
J	2	Screws (Shorter)
K	1	Foam Pad
L	1	Push Pin Tie Strap

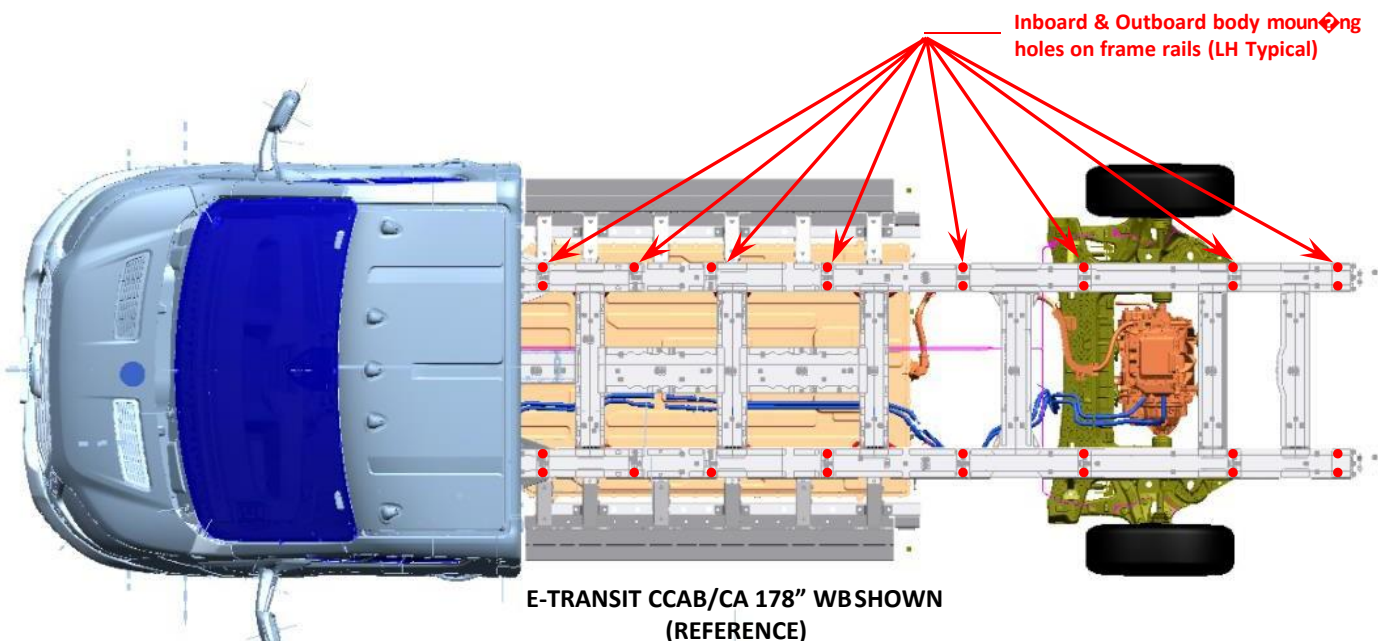
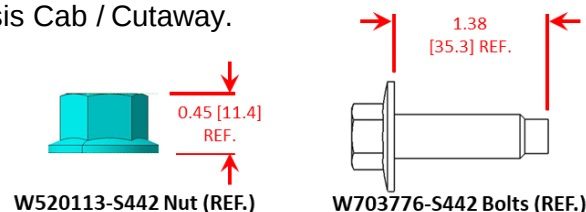
Figure 1 : Camera Kit Contents

Final stage manufacturers who complete vehicles 10,000 lbs. GVWR or less produced by Ford as incomplete (e.g., pickup box delete, chassis-cabs, cutaways) on or after 5/1/2018 must meet these new FMVSS 111 requirements. Ford will issue additional bulletins containing information to assist final stage manufacturers achieve compliance with the Ford reverse camera kit on incompletes. Note that the NTEA has provided detailed information and educational resources to help members better understand the new FMVSS 111/reverse camera conformity (including a manual and test kit). Ref. <https://www.ntea.com/fmvss111rearvisibility>

E-TRANSIT SECOND UNIT BODY (SUB)

Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit *Body and Equipment Mounting Manual (BEMM)*, Body Section, 5.1.6 Chassis Cab / Cutaway at <https://fordbbas.com/publications> for additional SUB mounting information for both GAS and BEV Model variants.

- A full-length structural body should be hard-mounted to all available inboard and outboard frame hole locations, however, fasteners are not required in 2nd and 3rd rows of LH and RH frame rail inboard holes alongside the battery, fuel tank and exhaust muffler. Ford Motor Company recommends 25 mm head-size flange M10 Grade 10.9 W520113-S442 nuts & W703776-S442 bolts, or equivalent. Reference BEMM Body Section, 5.1.6 Chassis Cab / Cutaway.



- DO NOT WELD** to the flanges of the side rails.
- The recommended attachment fastener for the Cutaway Back-of-Cab non-threaded nutplates is a MR8 Taptite 2000® bolt or equivalent. Reference Transit BEMM Body Section, 5.1.7 Cutaways.
- Note the requirement for a Cutaway floor spacer between the cab and an attached body. Reference: BEMM Body Section, 5.1.7 Cutaway – Floor Spacer.

Note: Electric Chassis Cab vehicles with a Platform or Stake style Second Unit Body may exhibit a Low Frequency Ride Comfort Characteristics that does not meet customer expectations. When upfitting a vehicle with either of these Second Unit Bodies, Ford Motor Company recommends part NK31-110867-AA* be ordered and installed prior to delivery to end customer.

E-TRANSIT PRECAUTIONARY DRILL ZONES GUIDANCE

E-TRANSIT VAN PRECAUTIONARY DRILL ZONES

Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit *Body and Equipment Mounting Manual (BEMM)*, Powertrain Section, for further precautionary details <https://fordbbas.com/publications> for GAS and Battery Electric Vehicle (BEV) Model variants.

This guidance only applies to the E-Transit BEV.

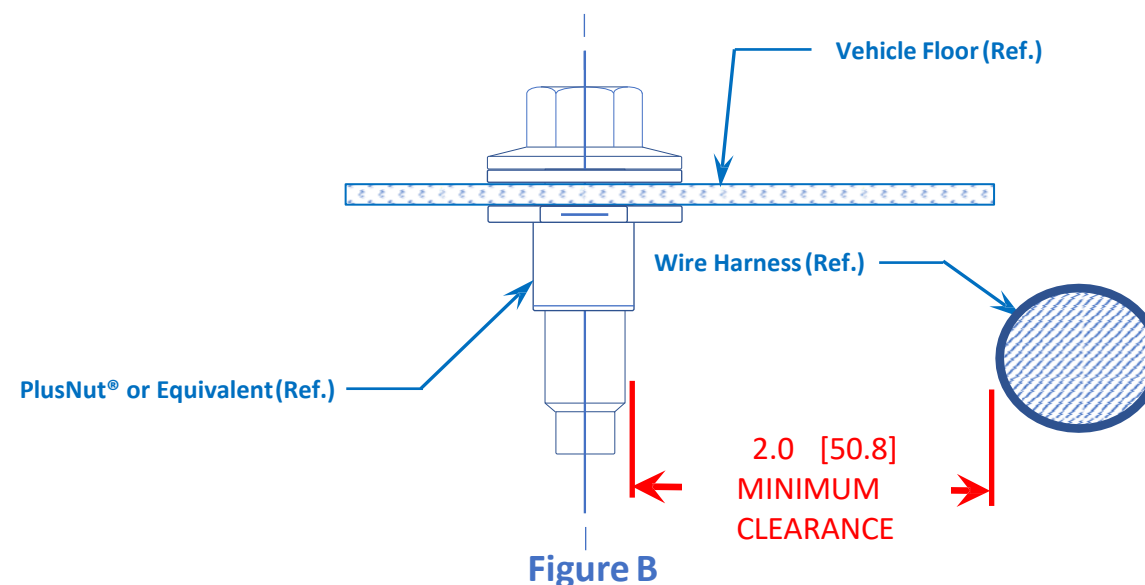
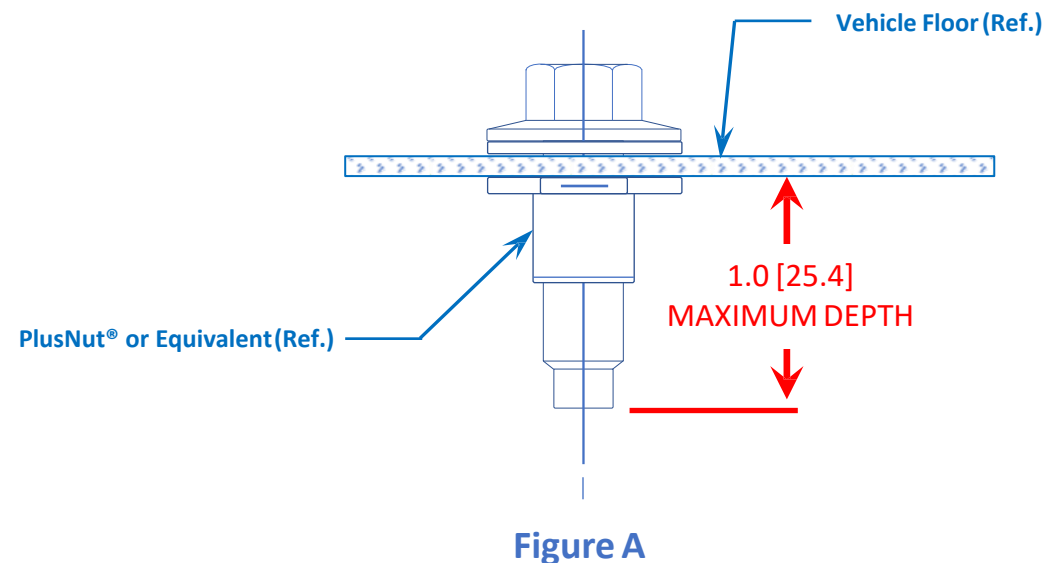
It is STRONGLY recommended that E-Transit VAN CAD is obtained for upfitter use to understand vehicle component placement/location of Hi/Low-Voltage Wire harness routing, coolant line wiring, hydraulic brake line routing, rear drive unit placement, etc. CAD can be obtained from Ford Body Builder Advisory Service by submitting a helpdesk ticket, <https://fordbbashelpdesk.kayako.com/Tickets/Submit>

Take precautions when undertaking drilling, or any other operation, aft of B-Pillar in order to prevent damage to any components under the Van floor. HV grounding points in the vehicle are not to be touched.

- When adding holes/fasteners to the floor of the vehicle to secure upfits, consideration must be given to all components below the floor.
 - It is strongly recommended that drill-depth stop be used.** Drill stop depth shall not exceed 1.0 [25.4] MAXIMUM DEPTH
 - Fasteners (including PlusNut® or equivalent) extending below the floor of the vehicle shall not exceed 1.0 [25.4] MAXIMUM DEPTH (Figure A)
 - Fasteners (and/or alternative fastening method) extending below the floor of the vehicle shall have 2.0 [50.8] MINIMUM CLEARANCE to any surrounding Hi/Low-Voltage wiring and/or coolant line routing and/or hydraulic brake line routing to prevent any damage/chaffing. (Figure B)

NOTE:

- Re-paint metal edges after cutting or drilling. All metal edges must comply with exterior and interior protection legislation.
- All fixings through the floor, sides or roof must be sealed. (Refer BEMM sections 5.1.1 Body Structures and 5.1.3 Corrosion Prevention)



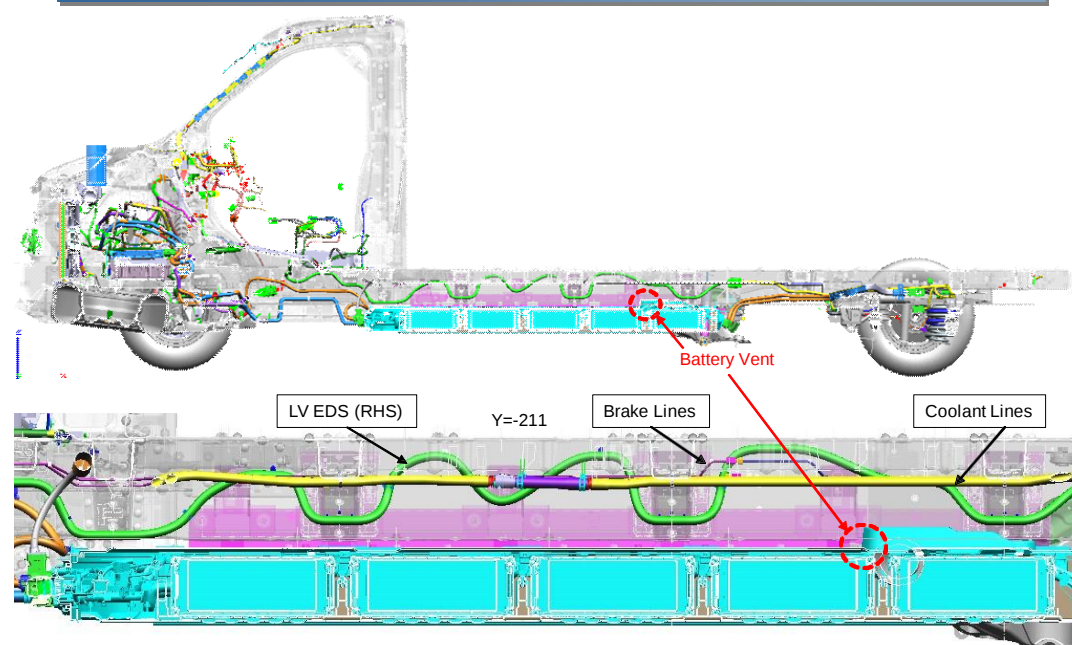
E-TRANSIT BATTERY ELECTRICAL VEHICLE VENTING

BATTERY ELECTRIC VEHICLE VENTING

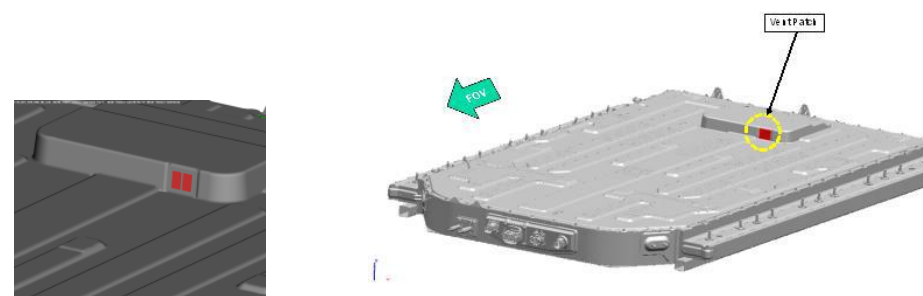
- If the HV Battery is equipped with pressure equalization patches, pressure relief ports, and/or exhaust vent ducts, no additional components nor obstructions (beyond any installed by Ford) shall be located in the same environment as the battery (e.g., underbody), and within 150 mm of these features. Additionally, no components which may contain combustible liquids or gasses at any time shall be added by the upfitter within 300 mm of these features.
- There shall be no modifications or installed components which confine the air space near the outside of the HV Battery or obstruct the free flow of air about the battery (beyond any installed by Ford).
- Any cut outs or openings created between the occupant space and the vehicle underbody shall be sealed such that air is not free to pass from under the vehicle into the occupant space.
- If any primary ingress/egress paths for occupant spaces are located above or rearward of the rear axle(s), a metallic shielding shall be added to obstruct any air flow from the battery towards those ingress/egress paths and redirect that air flow towards a side/rear area that is not a primary ingress/egress path.

CCAB – ELWB y=-80 LHS of Battery Vent

Electrified Powertrain Engineering

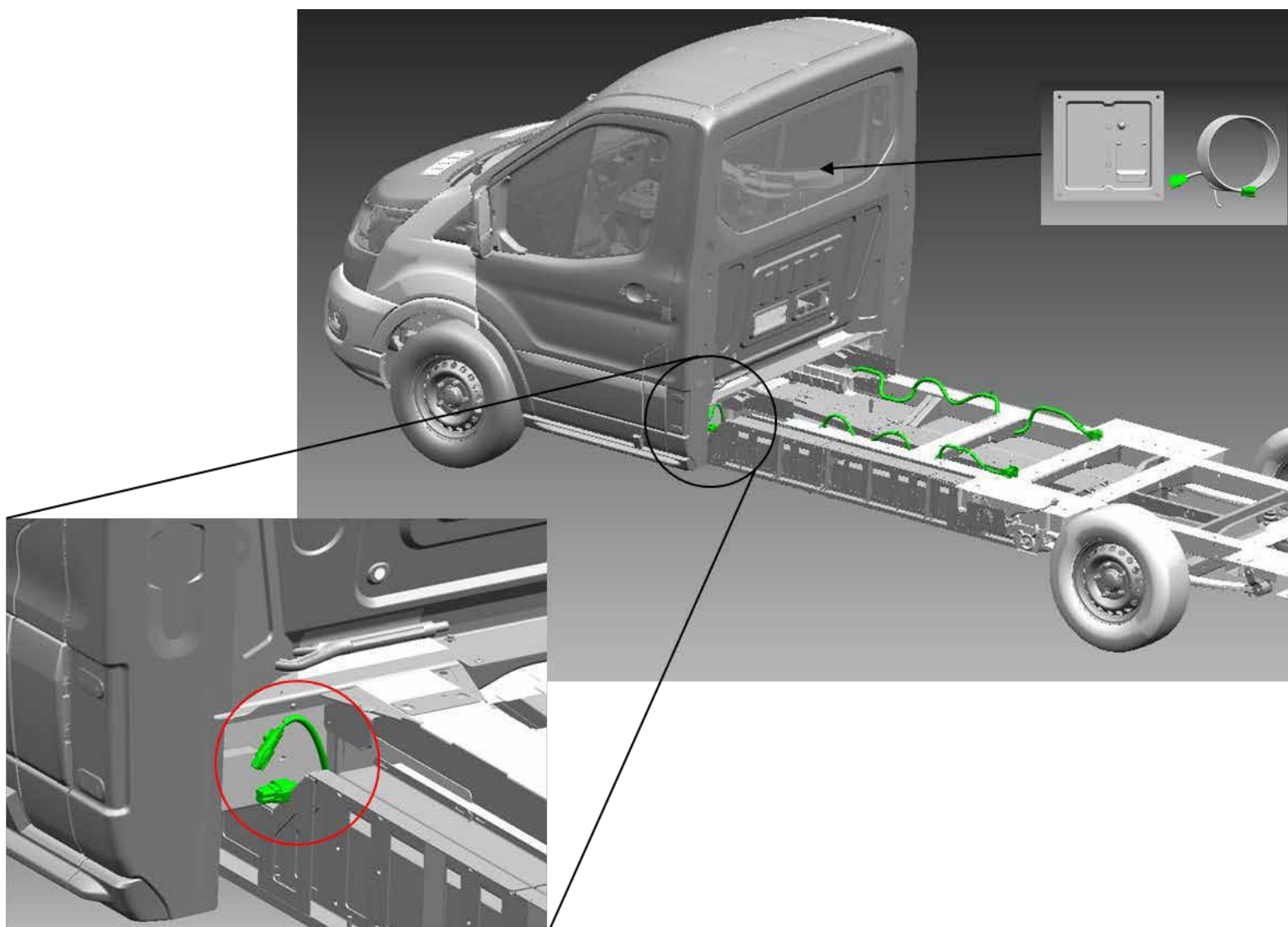


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PRO POWER ONBOARD FEATURE CHASSIS CABS AND CUTAWAYS

- The cab outlet (single) is installed in the Passenger seat pedestal.
- The rear outlet (duplex) is provided in dunnage and will need to be installed in the Second Unit Body.
 - The Pro Power Onboard feature will not be functional until the rear outlet is connected (feature will reset on the next key cycle).
 - The rear outlet is water resistant but should be installed such that it is protected from direct spray or flow of water.
 - The rear outlet should be installed on a substantially vertical surface.
 - The rear outlet should not be installed near any significant source of heat.
 - The rear outlet has a ~550mm wiring pigtail. The included grommet and retaining clip may be carefully removed from the wiring if desired.
 - Attach the rear outlet to the SUB using all four holes provided (recommend M6 or #12 Pan head screw with 12mm (0.47 in) max head diameter and 4.8 Nm (3.5 ft-lb) max installation torque).
 - Do not cover warning labels provided on the outlet.
- A 6m (18 ft) extension wiring harness is also provided in dunnage to allow flexibility in placement of the rear outlet. The rear outlet pigtail can also connect directly to the chassis wiring if preferred.
 - The wiring connectors are sealed and do not need special protection from the elements.
 - Best practices for wire routing and retention should be followed, see the Ford General Body Builder Layout Book for more information.
- Chassis wiring connectors for this feature are located near the LH frame rail at back of cab. These connectors have sealed caps which should remain in place until the rear outlet is plugged in (directly or via extension harness) to prevent contamination and potential shock hazard. The vehicle should be in the "key off" state when removing the sealed caps from the chassis wiring and connecting the extension harness and rear outlet pigtail.
- If the rear outlet cannot be installed in the SUB, the Inverter and SYNC modules need to be reconfigured with a Ford Diagnostic and Repair System (FDRS) tool to deactivate it. This will allow the Pro Power Onboard feature to function as intended, albeit with the cab outlet only.



PRO POWER ONBOARD FEATURE CHASSIS CABS AND CUTAWAYS (CON'T)



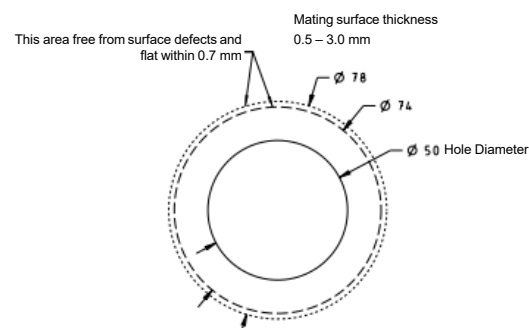
Wiring Length from tip of Strain Relief (+/- 10mm): to Grommet - 290mm
to Clip - 430mm
to Signal connector - 550mm
to Power connector - 580mm

Wiring Clip Mating Surface

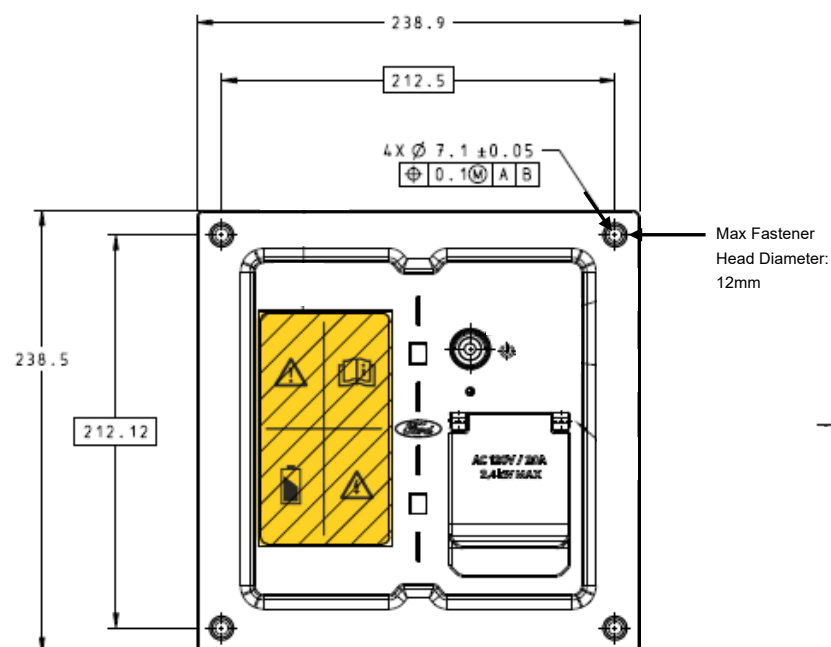
SHEET METAL THICKNESS RANGE: 0.60mm - 6.75mm
APPLICABLE OVAL HOLE SIZES:

- A. 6.2 X 12.2mm
- B. 6.5 X 12.5mm
- C. 6.5 X 13.0mm
- D. 7.0 X 12.0mm

Wiring Grommet Mating Surface

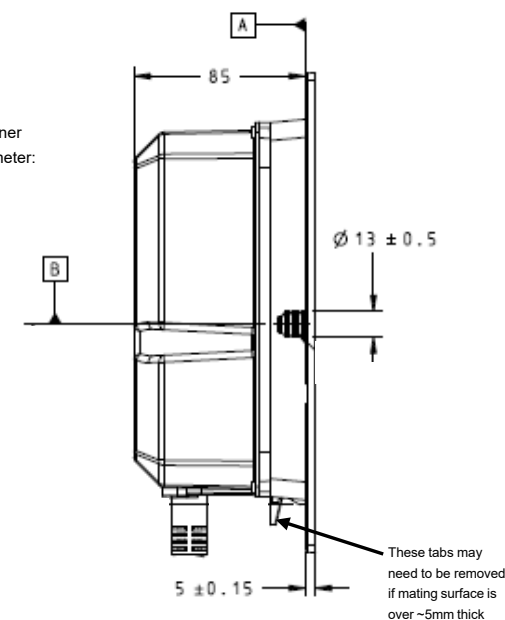


Rear Outlet Front View

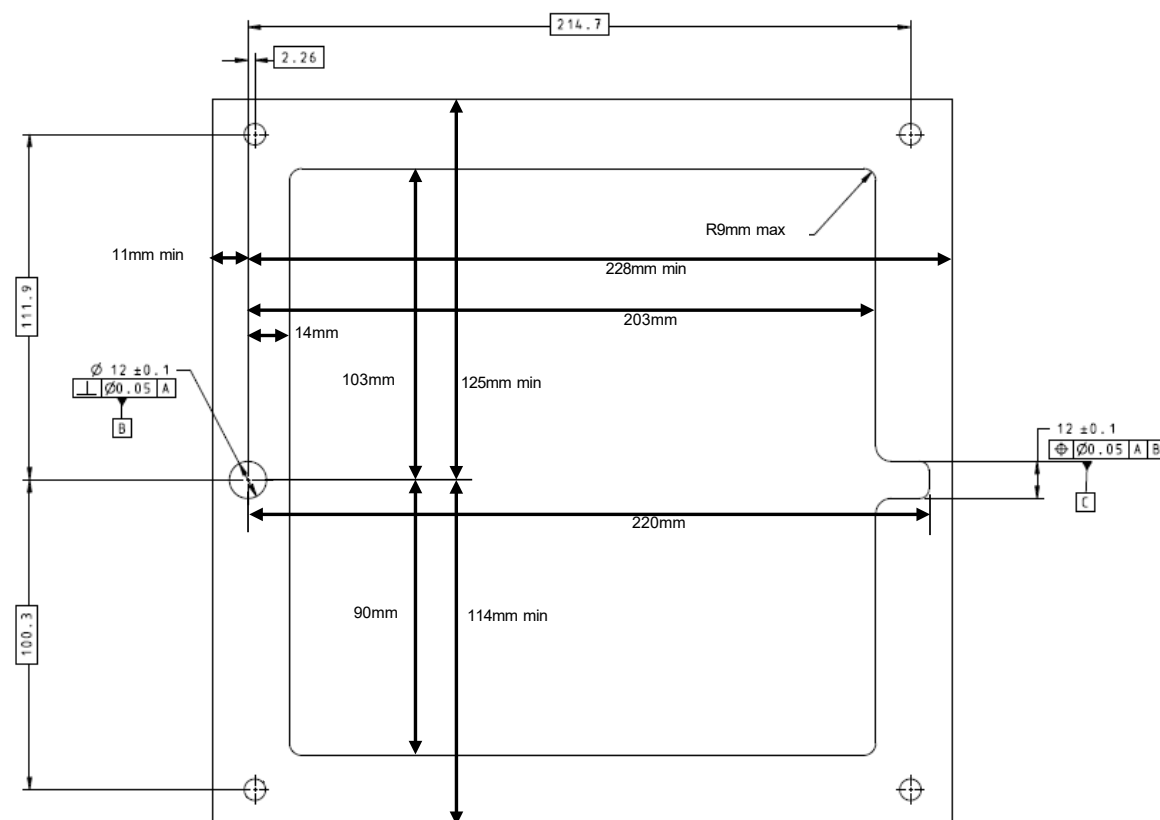


All Dimensions in mm

Rear Outlet Side View



Rear Outlet Mating Surface





Body Builders Layout Book

TRANSIT

2022
MODEL YEAR

CHANGE CONTROL INDEX

LTRS	REVISIONS		
ORIGINATOR	CHECKER	ENGR APP	MATL APP
INITIAL RELEASE			
CHNC14-000000-BBLB-AA-01-FNA-ECN/1			
RELEASED			20210930
KVINOTH4	RWAGNE43	SLAZARZ	--
REVISED: SHEET NO.1,2,4,5,6,7,8,9			
CHNC14-000000-BBLB-AA-01-FNA-ECN/2			
RELEASED			20211004
KVINOTH4	RWAGNE43	SLAZARZ	--