



Bronco Equipment Installation Guide

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BRONCO

BRONCO INDEX

2023

MODEL YEAR

BRONCO

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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.





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.

Installation of additional equipment, or alterations to Bronco vehicles as sold by Ford Motor Company may void the vehicle warranty or require certification to US Federal (or Canadian) Motor Vehicle Safety Standards, Emissions standards, state, provincial, and/or local laws and regulations. It is the responsibility of the vehicle alterer to determine what standards, laws or regulations may be affected and take appropriate action.

The suspension and steering systems on the Bronco have been designed and tested to provide predictable performance; Ford does not recommend any modifications such as adding or removing parts (i.e. lift kits or stabilizer bars) or using replacement parts not equivalent to the original factory equipment. Any modifications to your vehicle that raise the center of gravity (i.e. lift kits, roof mounted accessories beyond the stated load capacity) may cause the vehicle to roll over when there is a loss of vehicle control.

The following important items should be carefully considered before modifying a Bronco vehicle:

- Installation of a snow plow of any kind is not endorsed by Ford Motor Company and may void the vehicle warranty.
- Sensors should not be removed, relocated or reoriented unless expressly authorized by Ford Motor Company. Installation of additional equipment should also not interfere with the field of view (FOV) of the camera and radar modules (see additional information in this document for sensor FOV zones). Examples of sensors:
 - o Front and rear view cameras
 - o Forward facing radar
 - o Rear corner radar
 - o Crash sensors
 - o Yaw sensor
 - o ABS wheel speed sensors
- Any added accessories or equipment mounted near exterior lamps and/or reflectors should be checked to ensure the vehicle remains in compliance with FMVSS 108 Lamps, Reflective Devices and Associated Equipment standard.

Bronco CAD Requests

Component level CAD for the Bronco can be obtained from SEMA Tech Transfer. SEMA Tech Transfer link: <https://www.semagarage.com/techtransfer/Index>

Note: Access to Tech Transfer may require a SEMA membership and associated fees may apply.

Reference Information

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



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BRONCO

BRONCO

MODEL LINEUP - 2 DOOR

2023

MODEL YEAR

Vehicle Description	Eng	Trans	WB (in)	GVWR (lbs)	Max Advertised Payload	Base Curb Weight			GAWR						Max Total ARC	
						Front	Rear	Total	Min Front	Max Front	Min Rear	Max Rear	Max Front	Max Rear		
2.3L GTDi MT88 ESOF SWB																
2.3L GTDi MT88 ESOF SWB Base	2.3L	MT88	100.4	5540	1234	2348	1957	4306	2900	2900	3000	3000	4200	5520	614	
2.3L GTDi MT88 ESOF SWB Big Bend	2.3L	MT88	100.4	5540	1224	2354	1962	4315	2900	2900	3000	3000	4200	5520	605	
2.3L GTDi MT88 ESOF SWB Black Diamond	2.3L	MT88	100.4	5640	1101	2438	2101	4539	2900	2900	3000	3000	4200	5520	481	
2.3L GTDi MT88 EMTC SWB																
2.3L GTDi MT88 EMTC SWB Base	2.3L	MT88	100.4	5620	1068	2459	2093	4552	2900	2900	3000	3000	4200	5520	448	
2.3L GTDi MT88 EMTC SWB Big Bend	2.3L	MT88	100.4	5620	1064	2462	2093	4555	2900	2900	3000	3000	4200	5520	445	
2.3L GTDi MT88 EMTC SWB Black Diamond	2.3L	MT88	100.4	5640	1078	2453	2108	4561	2900	2900	3000	3000	4200	5520	459	
2.3L GTDi MT88 EMTC SWB Badlands	2.3L	MT88	100.4	5700	1054	2521	2125	4646	2900	2900	3000	3000	4200	5520	387	
2.3L GTDi MT88 EMTC SWB Heritage Standard	2.3L	MT88	100.4	5620	922	2524	2173	4697	2900	2900	3000	3000	4200	5520	303	
2.3L GTDi 10R60 ESOF SWB																
2.3L GTDi 10R60 ESOF SWB Base	2.3L	10R60	100.4	5540	1213	2363	1964	4327	2900	2900	3000	3000	4200	5520	593	
2.3L GTDi 10R60 ESOF SWB Big Bend	2.3L	10R60	100.4	5540	1203	2369	1968	4337	2900	2900	3000	3000	4200	5520	583	
2.3L GTDi 10R60 ESOF SWB Outer Banks	2.3L	10R60	100.4	5540	1122	2409	2009	4418	2900	2900	3000	3000	4200	5520	503	
2.3L GTDi 10R60 ESOF SWB Black Diamond	2.3L	10R60	100.4	5640	1081	2453	2106	4559	2900	2900	3000	3000	4200	5520	461	
2.3L GTDi 10R60 EMTC SWB																
2.3L GTDi 10R60 EMTC SWB Base	2.3L	10R60	100.4	5620	1048	2474	2097	4572	2900	2900	3000	3000	4200	5520	429	
2.3L GTDi 10R60 EMTC SWB Big Bend	2.3L	10R60	100.4	5620	1044	2477	2098	4575	2900	2900	3000	3000	4200	5520	425	
2.3L GTDi 10R60 EMTC SWB Outer Banks	2.3L	10R60	100.4	5620	1196	2410	2013	4423	2900	2900	3000	3000	4200	5520	577	
2.3L GTDi 10R60 EMTC SWB Black Diamond	2.3L	10R60	100.4	5660	1078	2468	2113	4581	2900	2900	3000	3000	4200	5520	452	
2.3L GTDi 10R60 EMTC SWB Badlands	2.3L	10R60	100.4	5720	1054	2536	2130	4666	2900	2900	3000	3000	4200	5520	367	
2.3L GTDi 10R60 EMTC SWB Heritage Standard	2.3L	10R60	100.4	5620	902	2539	2178	4717	2900	2900	3000	3000	4200	5520	283	
2.3L GTDi MT88 ESOF LWB																
2.3L GTDi MT88 ESOF LWB Big Bend	2.3L	MT88	116.1	5920	1442	2485	1992	4477	3090	3090	3070	3070	4200	5520	673	
2.3L GTDi MT88 ESOF LWB Black Diamond	2.3L	MT88	116.1	6000	1215	2621	2164	4785	3170	3170	3070	3070	4200	5520	446	
2.3L GTDi MT88 EMTC LWB																
2.3L GTDi MT88 EMTC LWB Big Bend	2.3L	MT88	116.1	5980	1262	2594	2123	4717	3090	3090	3070	3070	4200	5520	493	
2.3L GTDi MT88 EMTC LWB Badlands	2.3L	MT88	116.1	6060	1169	2702	2188	4891	3170	3170	3070	3070	4200	5520	399	
2.3L GTDi MT88 EMTC LWB Black Diamond	2.3L	MT88	116.1	6000	1192	2636	2171	4807	3170	3170	3070	3070	4200	5520	423	
2.3L GTDi MT88 EMTC LWB Heritage Standard	2.3L	MT88	116.1	5980	1110	2654	2215	4869	3090	3090	3070	3070	4200	5520	341	
2.3L GTDi 10R60 ESOF LWB																
2.3L GTDi 10R60 ESOF LWB Base	2.3L	10R60	116.1	5920	1431	2500	1989	4489	3090	3090	3070	3070	4200	5520	661	
2.3L GTDi 10R60 ESOF LWB Big Bend	2.3L	10R60	116.1	5920	1421	2505	1993	4499	3090	3090	3070	3070	4200	5520	651	
2.3L GTDi 10R60 ESOF LWB Outer Banks	2.3L	10R60	116.1	5920	1332	2551	2037	4588	3090	3090	3070	3070	4200	5520	562	
2.3L GTDi 10R60 ESOF LWB Black Diamond	2.3L	10R60	116.1	6000	1195	2641	2164	4805	3170	3170	3070	3070	4200	5520	426	
2.3L GTDi 10R60 EMTC LWB																
2.3L GTDi 10R60 EMTC LWB Base	2.3L	10R60	116.1	5980	1246	2611	2122	4733	3090	3090	3070	3070	4200	5520	477	
2.3L GTDi 10R60 EMTC LWB Big Bend	2.3L	10R60	116.1	5980	1242	2614	2123	4737	3090	3090	3070	3070	4200	5520	473	
2.3L GTDi 10R60 EMTC LWB Outer Banks	2.3L	10R60	116.1	5980	1361	2562	2057	4619	3090	3090	3070	3070	4200	5520	591	
2.3L GTDi 10R60 EMTC LWB Black Diamond	2.3L	10R60	116.1	6020	1192	2656	2171	4827	3170	3170	3070	3070	4200	5520	423	
2.3L GTDi 10R60 EMTC LWB Badlands	2.3L	10R60	116.1	6080	1169	2722	2188	4911	3170	3170	3070	3070	4200	5520	399	
2.3L GTDi 10R60 EMTC LWB Everglades	2.3L	10R60	116.1	6180	928	2996	2256	5252	3270	3270	3070	3070	4200	5520	158	
2.3L GTDi 10R60 EMTC LWB Heritage Standard	2.3L	10R60	116.1	5980	1090	2674	2215	4889	3090	3090	3070	3070	4200	5520	321	

Notes:

- (1) Maximum loaded vehicle (including passengers,equipment and payload) cannot exceed the GVWR or GAWRs (front or rear).
- (2) Load rating represents maximum allowable weight of people,cargo and body equipment and is reduced by optional equipment weight.
- (3) Accessory Reserve Capacity (ARC) is the maximum allowable weight of regular production options and aftermarket equipment for each configuration.
- (4) Gross Axle Weight Rating is determined by the rated capacity of the minimum component of the axle system (axle, springs,wheels, tires).
- (5) Base Curb Weights shown are for vehicles with standard equipment.





Bronco Equipment Installation Guide

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BRONCO MODEL LINEUP - 4 DOOR

2023

MODEL YEAR

Vehicle Description	Eng	Trans	WB (in)	GVWR (lbs)	Max Advertised Payload	Base Curb Weight			GAWR						Max Total ARC
									Min Front	Max Front	Min Rear	Max Rear			
						Front	Rear	Total							
2.7L GTDi 10R60 ESOF SWB															
2.7L GTDi 10R60 ESOF SWB Base	2.7L	10R60	100.4	5700	1234	2495	1971	4466	3000	3000	3000	3000	4200	5520	614
2.7L GTDi 10R60 ESOF SWB Big Bend	2.7L	10R60	100.4	5700	1224	2501	1975	4476	3000	3000	3000	3000	4200	5520	604
2.7L GTDi 10R60 ESOF SWB Outer Banks	2.7L	10R60	100.4	5700	1143	2541	2016	4557	3000	3000	3000	3000	4200	5520	524
2.7L GTDi 10R60 ESOF SWB Wildtrak	2.7L	10R60	100.4	5740	1072	2586	2082	4668	3000	3000	3000	3000	4200	5520	452
2.7L GTDi 10R60 ESOF SWB Black Diamond	2.7L	10R60	100.4	5780	1082	2585	2113	4698	3000	3000	3000	3000	4200	5520	462
2.7L GTDi 10R60 EMTC SWB															
2.7L GTDi 10R60 EMTC SWB Base	2.7L	10R60	100.4	5760	1049	2606	2104	4711	3000	3000	3000	3000	4200	5520	430
2.7L GTDi 10R60 EMTC SWB Big Bend	2.7L	10R60	100.4	5760	1045	2609	2105	4714	3000	3000	3000	3000	4200	5520	426
2.7L GTDi 10R60 EMTC SWB Outer Banks	2.7L	10R60	100.4	5760	1197	2542	2020	4562	3000	3000	3000	3000	4200	5520	578
2.7L GTDi 10R60 EMTC SWB Wildtrak	2.7L	10R60	100.4	5820	983	2671	2166	4837	3000	3000	3000	3000	4200	5520	363
2.7L GTDi 10R60 EMTC SWB Black Diamond	2.7L	10R60	100.4	5800	1079	2600	2120	4720	3000	3000	3000	3000	4200	5520	460
2.7L GTDi 10R60 EMTC SWB Badlands	2.7L	10R60	100.4	5860	1055	2668	2137	4805	3000	3000	3000	3000	4200	5520	435
2.7L GTDi 10R60 EMTC SWB Heritage Standard	2.7L	10R60	100.4	5760	903	2671	2185	4856	3000	3000	3000	3000	4200	5520	284
2.7L GTDi 10R60 EMTC SWB Oates	2.7L	10R60	100.4	5820	859	2769	2191	4960	3000	3000	3000	3000	4200	5520	240
2.7L GTDi 10R60 EMTC SWB Heritage Standard	2.7L	10R60	100.4	5860	984	2682	2194	4876	3000	3000	3000	3000	4200	5520	364
2.7L GTDi 10R60 ESOF LWB															
2.7L GTDi 10R60 ESOF LWB Base	2.7L	10R60	116.1	6060	1432	2624	2004	4628	3220	3220	3070	3070	4200	5520	662
2.7L GTDi 10R60 ESOF LWB Big Bend	2.7L	10R60	116.1	6060	1422	2629	2008	4638	3220	3220	3070	3070	4200	5520	652
2.7L GTDi 10R60 ESOF LWB Outer Banks	2.7L	10R60	116.1	6060	1333	2675	2052	4727	3220	3220	3070	3070	4200	5520	563
2.7L GTDi 10R60 ESOF LWB Wildtrak	2.7L	10R60	116.1	6080	1227	2723	2129	4853	3220	3220	3070	3070	4200	5520	458
2.7L GTDi 10R60 ESOF LWB Black Diamond	2.7L	10R60	116.1	6120	1176	2765	2179	4944	3270	3270	3070	3070	4200	5520	407
2.7L GTDi 10R60 EMTC LWB															
2.7L GTDi 10R60 EMTC LWB Base	2.7L	10R60	116.1	6100	1227	2735	2137	4872	3220	3220	3070	3070	4200	5520	458
2.7L GTDi 10R60 EMTC LWB Big Bend	2.7L	10R60	116.1	6100	1223	2738	2138	4876	3220	3220	3070	3070	4200	5520	454
2.7L GTDi 10R60 EMTC LWB Outer Banks	2.7L	10R60	116.1	6100	1342	2686	2072	4758	3220	3220	3070	3070	4200	5520	572
2.7L GTDi 10R60 EMTC LWB Wildtrak	2.7L	10R60	116.1	6140	1118	2808	2213	5022	3220	3220	3070	3070	4200	5520	348
2.7L GTDi 10R60 EMTC LWB Black Diamond	2.7L	10R60	116.1	6140	1173	2780	2186	4966	3270	3270	3070	3070	4200	5520	404
2.7L GTDi 10R60 EMTC LWB Badlands	2.7L	10R60	116.1	6180	1130	2846	2203	5050	3270	3270	3070	3070	4200	5520	360
2.7L GTDi 10R60 EMTC LWB Heritage Standard	2.7L	10R60	116.1	6100	1071	2798	2230	5028	3220	3220	3070	3070	4200	5520	302
2.7L GTDi 10R60 EMTC LWB Heritage Standard	2.7L	10R60	116.1	6180	1020	2882	2278	5160	3270	3270	3070	3070	4200	5520	250

Notes:

- (1) Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR or GAWRs (front or rear).
- (2) Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight.
- (3) Accessory Reserve Capacity (ARC) is the maximum allowable weight of regular production options and aftermarket equipment for each configuration.
- (4) Gross Axle Weight Rating is determined by the rated capacity of the minimum component of the axle system (axle, springs, wheels, tires).
- (5) Base Curb Weights shown are for vehicles with standard equipment.





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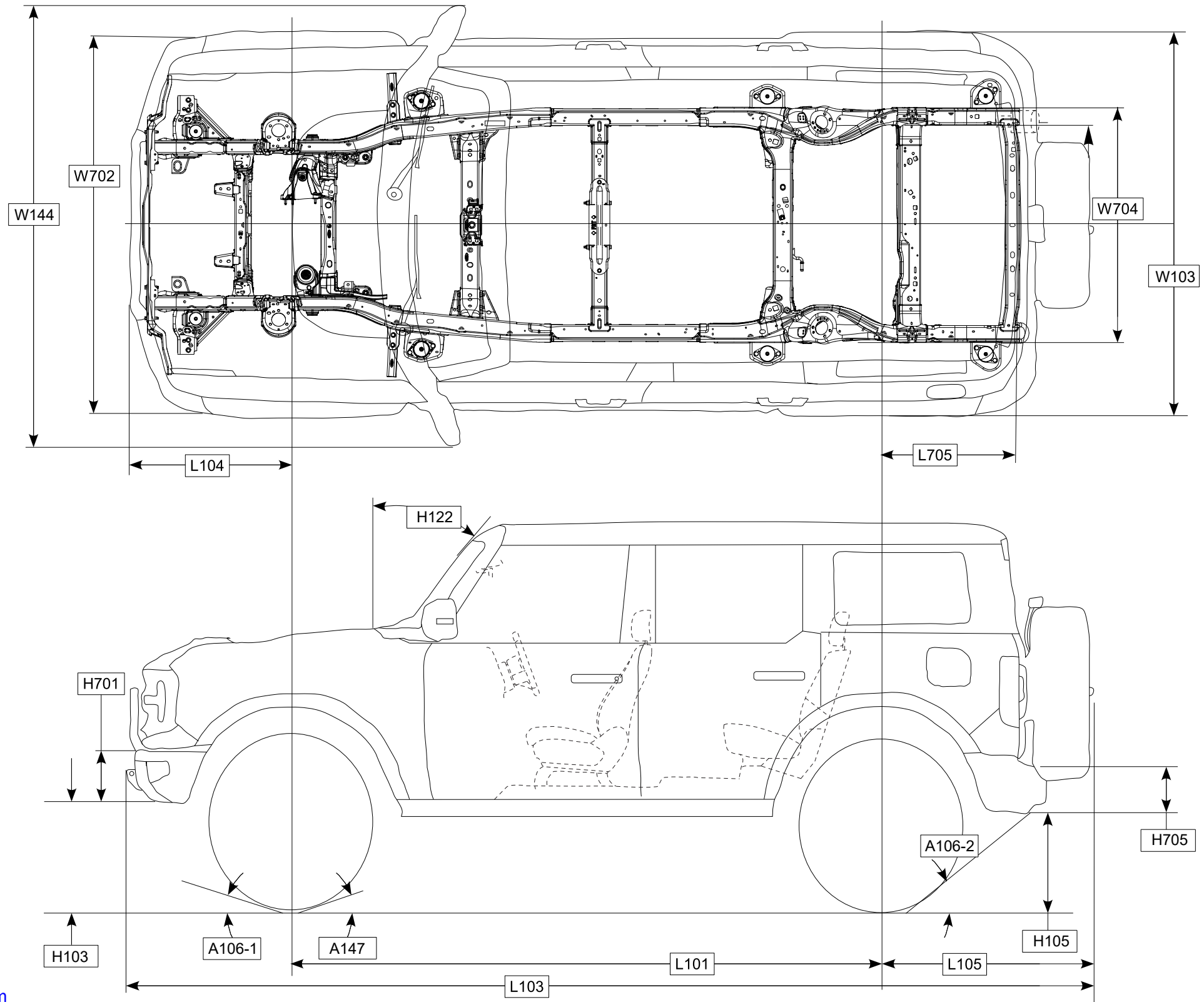
BRONCO

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DIMENSIONAL DATA - 2 DOOR / 4 DOOR

2023

MODEL YEAR





Bronco Equipment Installation Guide

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DIMENSIONAL DATA - 2 DOOR / 4 DOOR CONT'D

2023

MODEL YEAR

CODE	DESCRIPTION	2 DOOR			4 DOOR		
		Base	Badlands	Sasquatch	Base	Badlands	Sasquatch
		30" Tire	33" Tire	35" Tire	30" Tire	33" Tire	35" Tire
H103	BOTTOM OF FRONT BUMPER TO GROUND @ CURB	377 [14.8]	463 [18.2]	491 [19.3]	377 [14.8]	463 [18.2]	491 [19.3]
H105	BOTTOM OF REAR BUMPER TO GROUND @ CURB	435 [17.1]	482 [19.0]	519 [20.4]	434 [17.1]	481 [18.9]	518 [20.4]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	35.5	40.4	43.2	35.5	40.3	43.2
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TO REAR TOW HOOKS)	29.8	34.1	37.2	29.7	34.0	37.0
	(TO REAR BUMPER - TOW HOOKS REMOVED)	34.3	38.6	41.6	34.2	38.5	41.4
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	21.1	25.9	29.0	20	23.6	26.3
L101	WHEELBASE	2550 [100.4]			2950 [116.1]		
L103	VEHICLE LENGTH	4411 [173.7]	4439 [174.8]	4413 [173.7]	4811 [189.4]	4839 [190.5]	4813 [189.5]
L104	FRONT OVERHANG (NO LICENSE PLATE BRACKET)	794 [31.3]	822 [32.4]	783 [30.8]	794 [31.3]	822 [32.4]	783 [30.8]
L105	REAR OVERHANG (TO SPARE TIRE CARRIER)	1067 [42.0]	1067 [42.0]	1080 [42.5]	1067 [42.0]	1067 [42.0]	1080 [42.5]
	(TO REAR BUMPER)	833 [32.8]	818 [32.2]	818 [32.2]	833 [32.8]	818 [32.2]	818 [32.2]
L705	C/L OF REAR AXLE TO REAR END OF FRAME	717 [28.2]			717 [28.2]		
H122	WINDSHIELD ANGLE (DEGREES)	39.6			39.6		
H701	FRONT BUMPER HEIGHT	301 [11.9]	264 [10.4]	271 [10.7]	301 [11.9]	264 [10.4]	271 [10.7]
H705	REAR BUMPER HEIGHT	256 [10.1]	258 [10.2]	258 [10.2]	256 [10.1]	258 [10.2]	258 [10.2]
W103	VEHICLE WIDTH (MAX W/O MIRRORS)	1928 [75.9]	1937 [76.3]	2015 [29.3]	1928 [75.9]	1937 [76.3]	2015 [29.3]
W144	VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)	2189 [86.2]			2189 [86.2]		
W702	FRONT BUMPER WIDTH	1873 [73.7]	1874 [73.8]	1872 [73.7]	1873 [73.7]	1874 [73.8]	1872 [73.7]
W704	REAR FRAME WIDTH	1170 [46.1]			1170 [46.1]		

Note: Does not include rear tow hooks, optional trailer hitch receiver or spare tire

Note: Base (Plastic), Badlands (Modular), Sasquatch (Steel)

Note: Badlands & Sasquatch measured to Design Nominal tire sidewall

Note: High Series Mirrors with Turn Lamp (W144 = 2199mm [86.6])

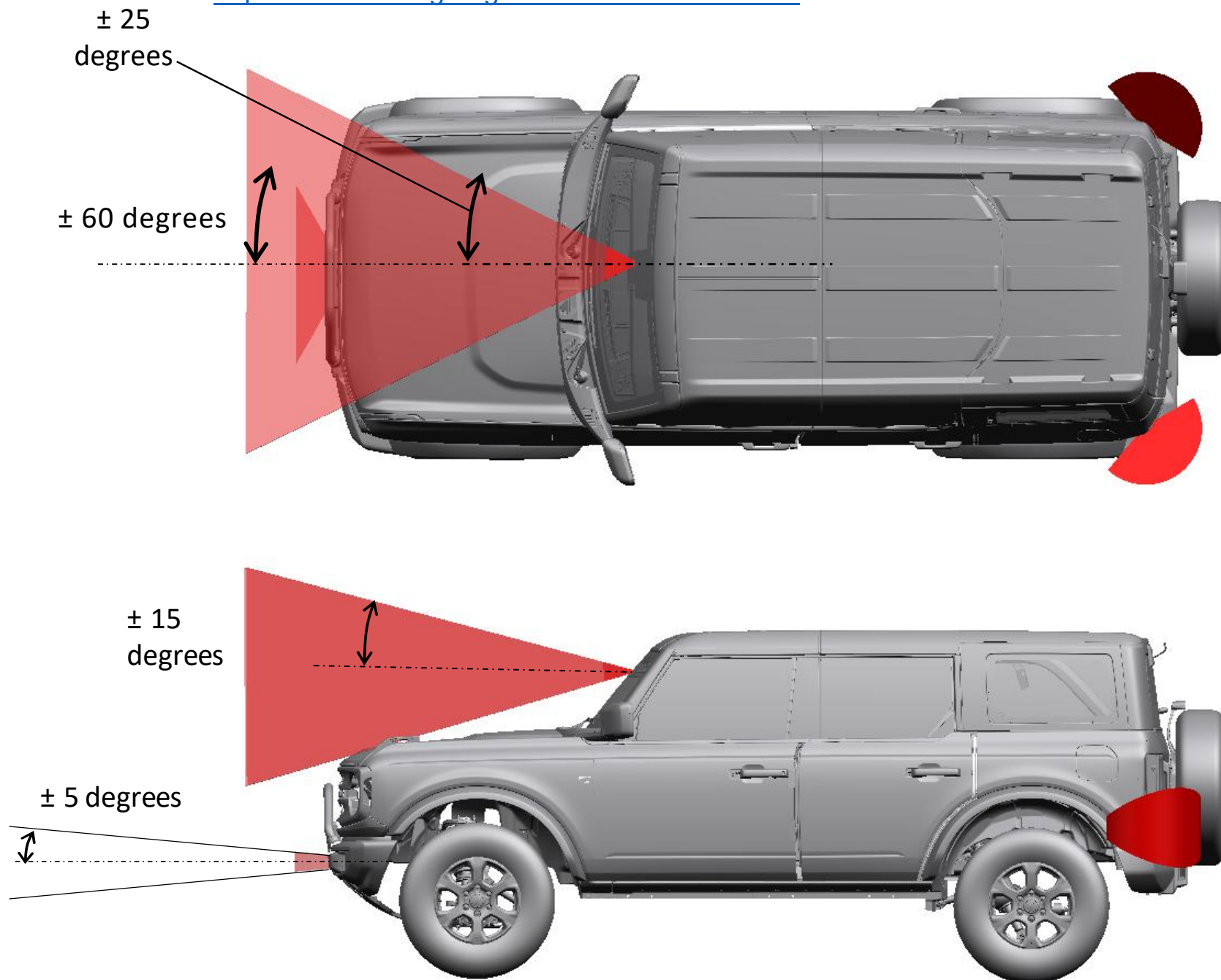
DIMENSIONS SHOWN IN mm [in]





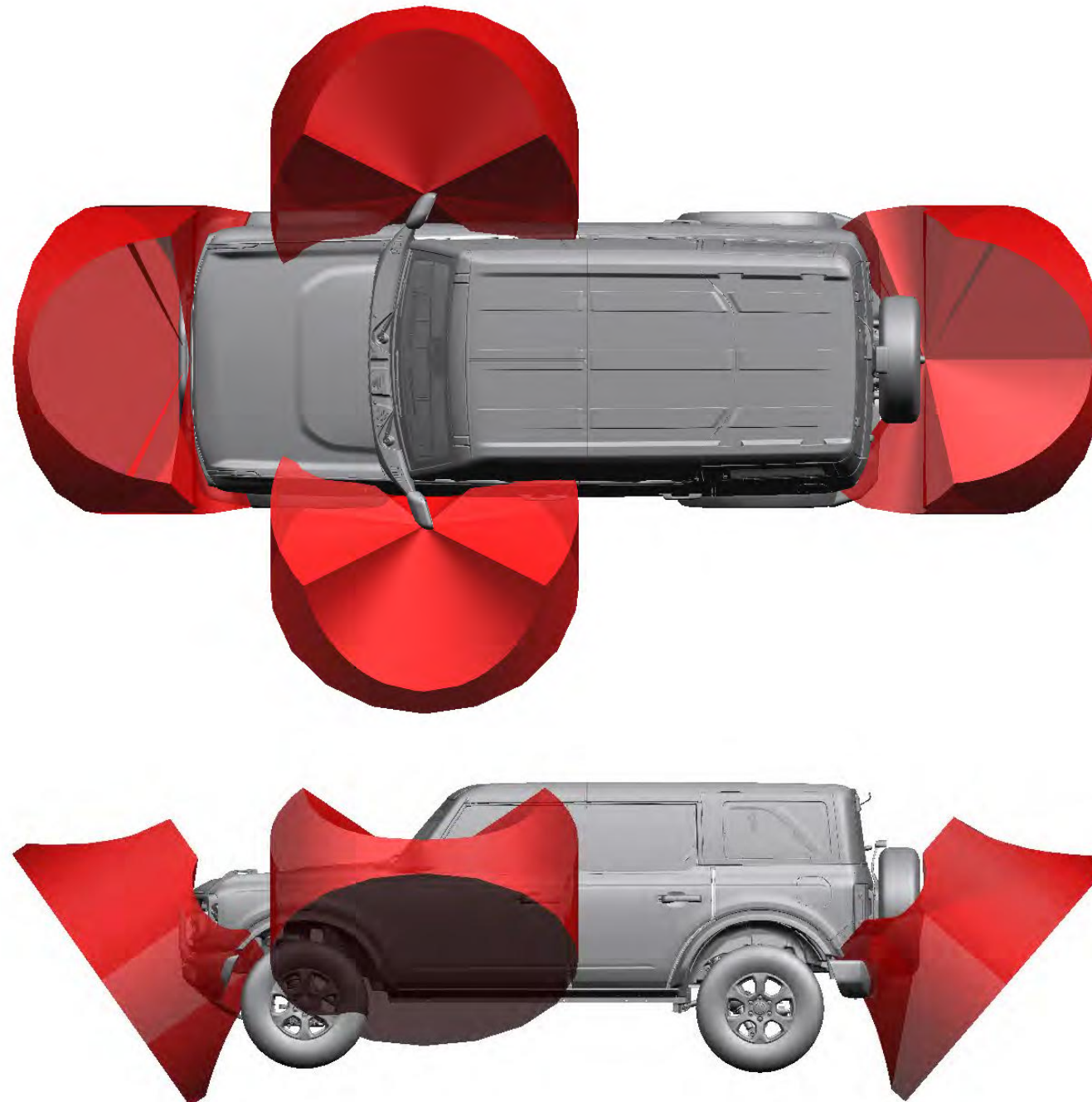
ADAS SENSOR FIELDS OF VIEW (KEEP OUT ZONES)

Installed equipment should not infringe on the sensor field of view zones.
CAD files for 3 and 5 door models are available upon request via SEMA Tech Transfer:
<https://www.semagarage.com/techtransfer/Index>. Reference file FNA7409762



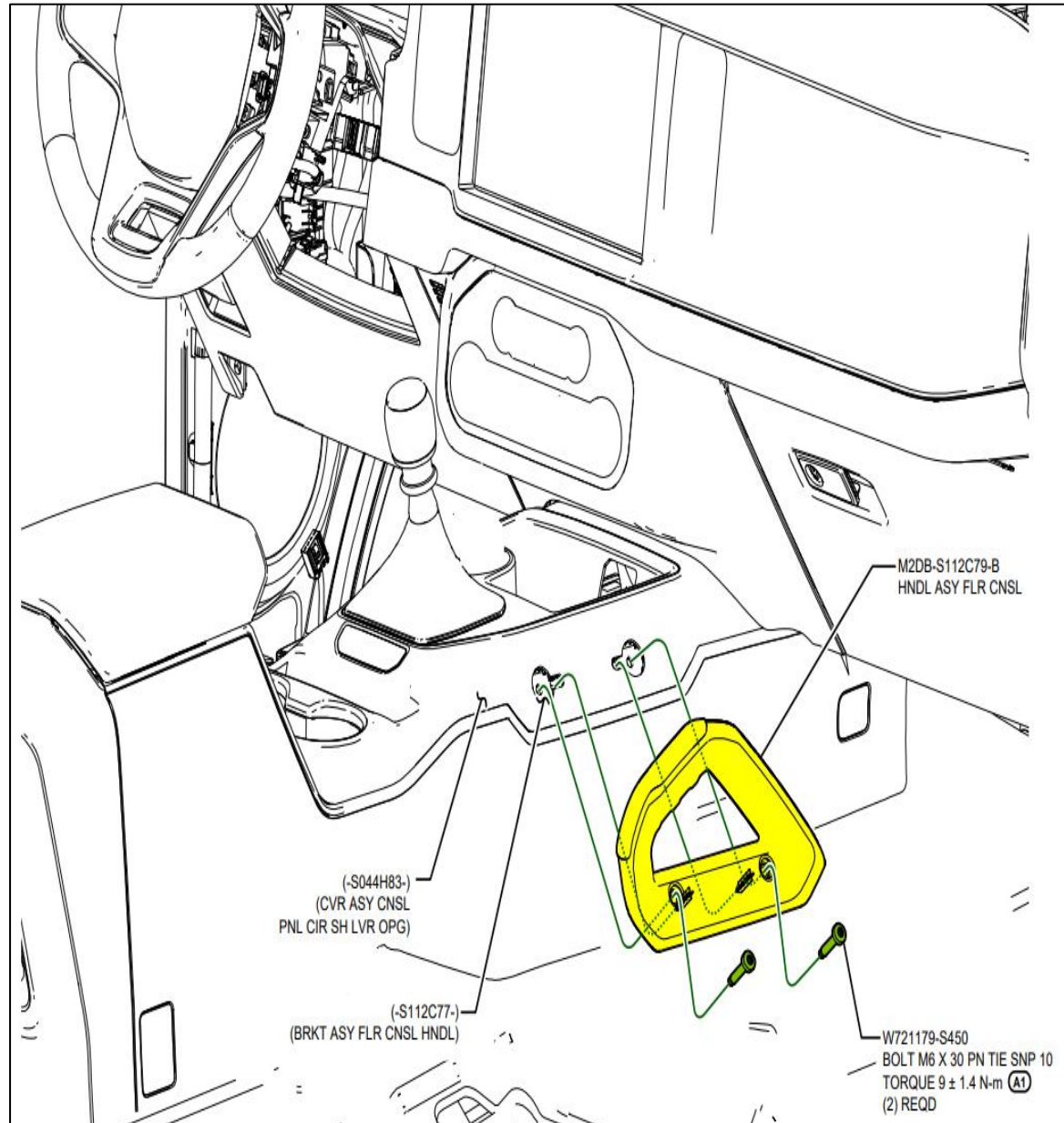


Installed equipment should not infringe on the rear view camera field of view zone.
CAD files for 3 and 5 door models are available upon request via SEMA Tech Transfer:
<https://www.semagarage.com/techtransfer/Index>. Reference file FNA7677526

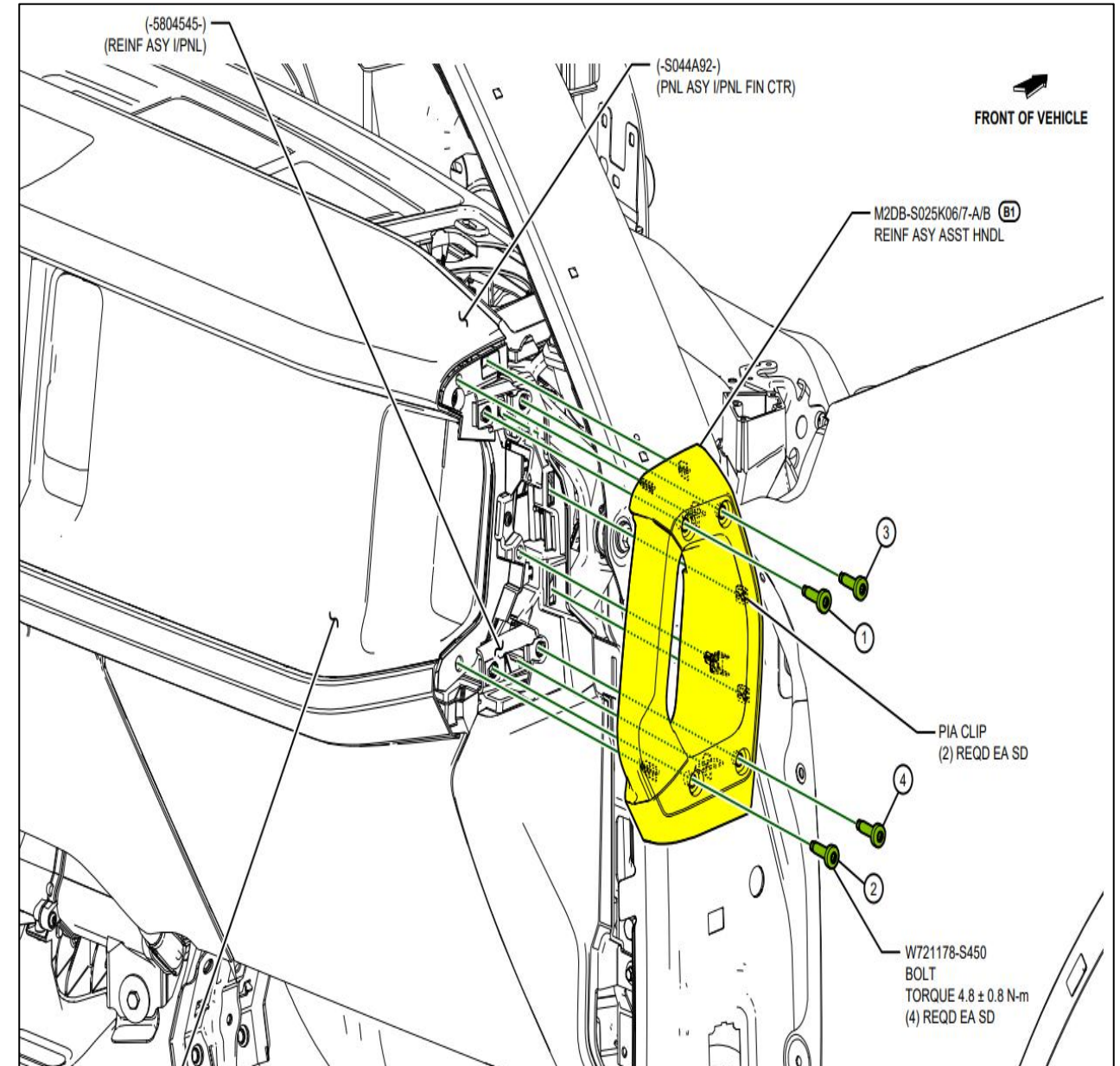


WARNING:

Obstruction of the rear view camera Field of View may result in vehicle non-compliance to FMVSS 111 Rear Visibility standard.



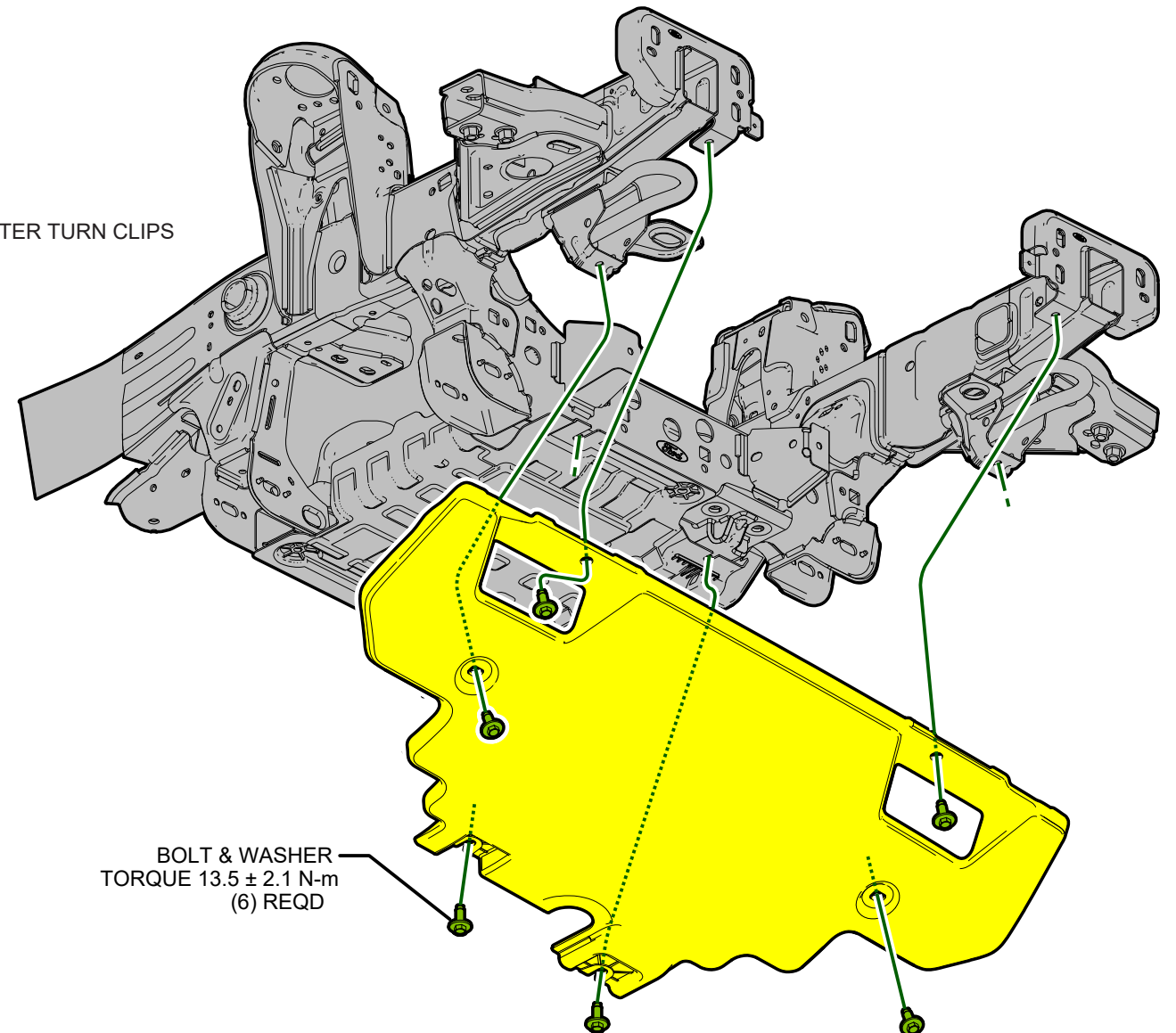
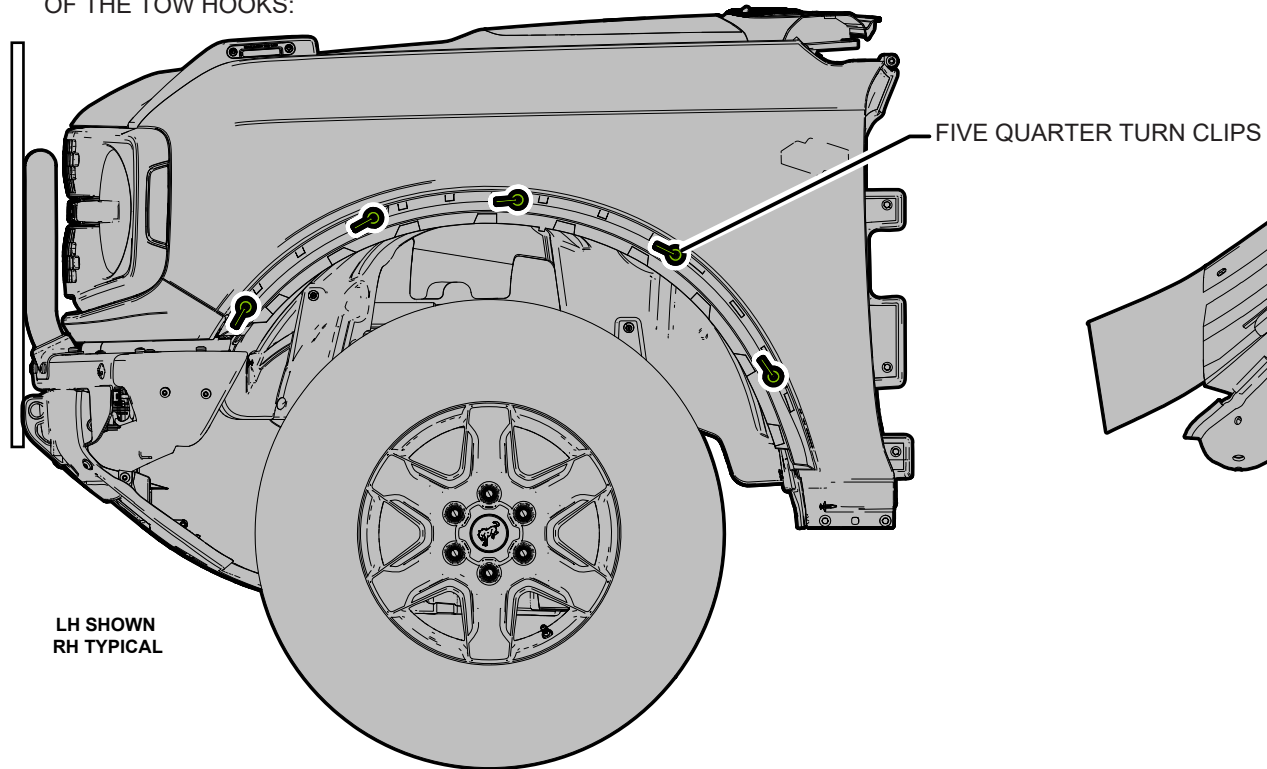
Console Grab Handle



IP Grab Handle

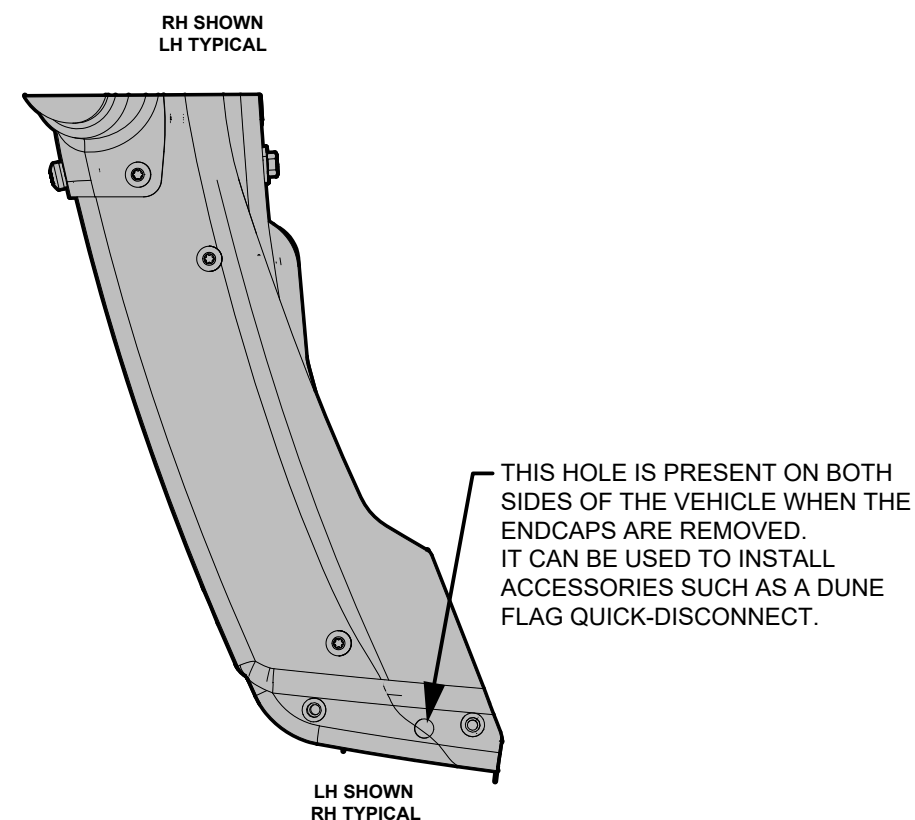
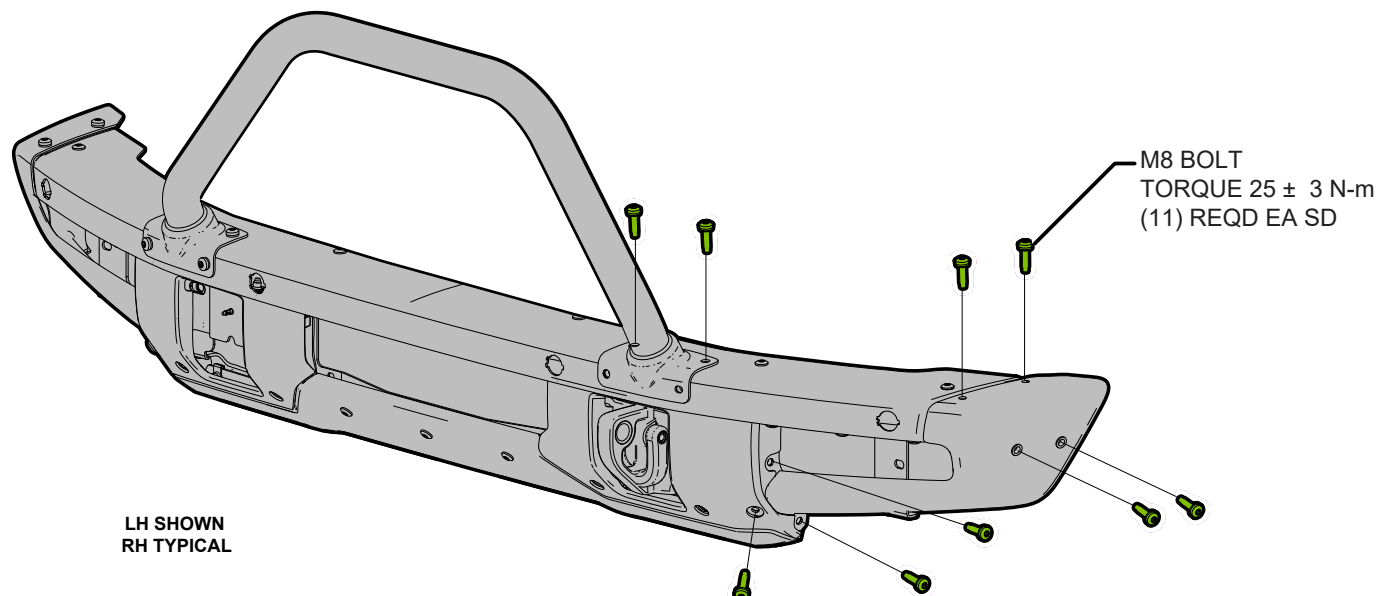
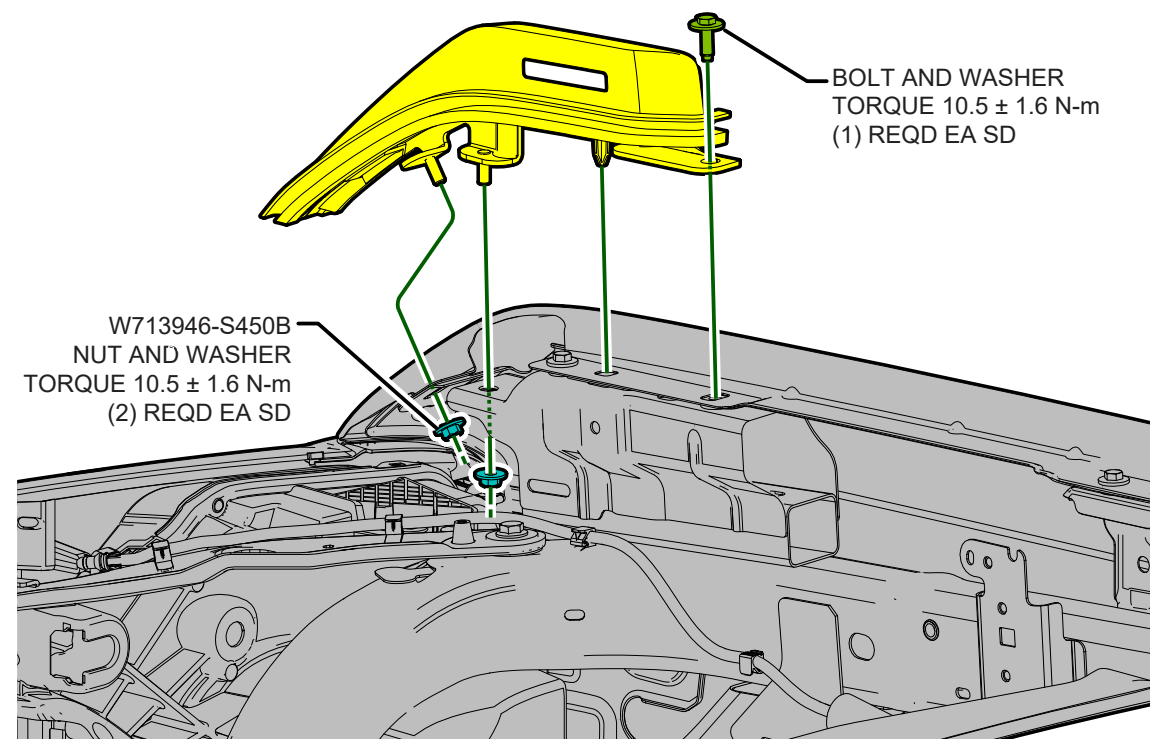
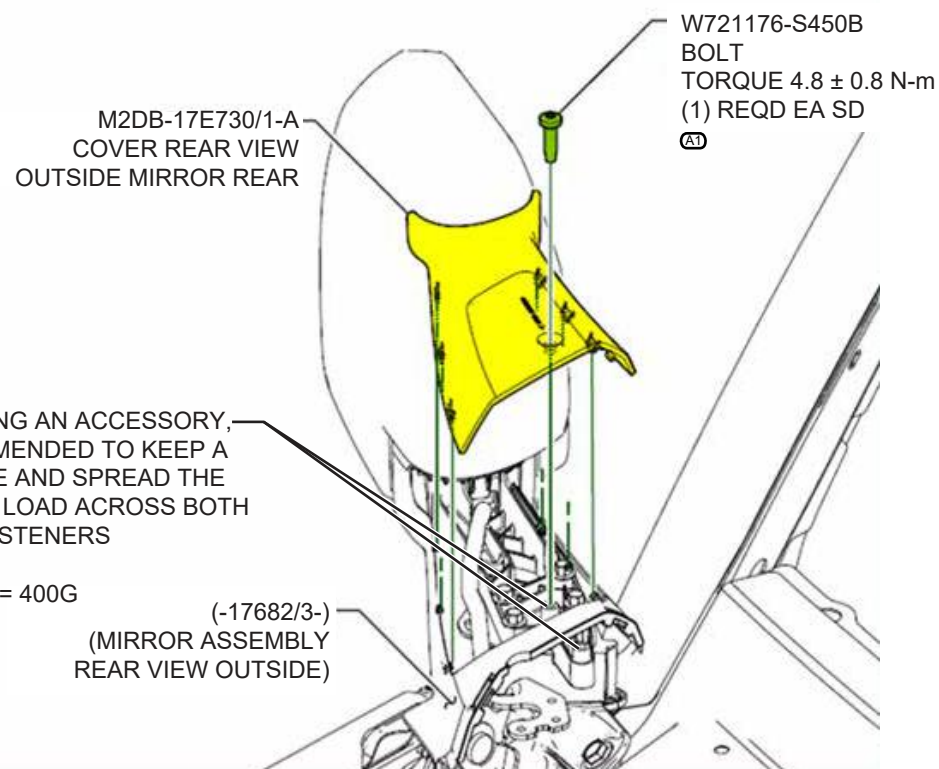


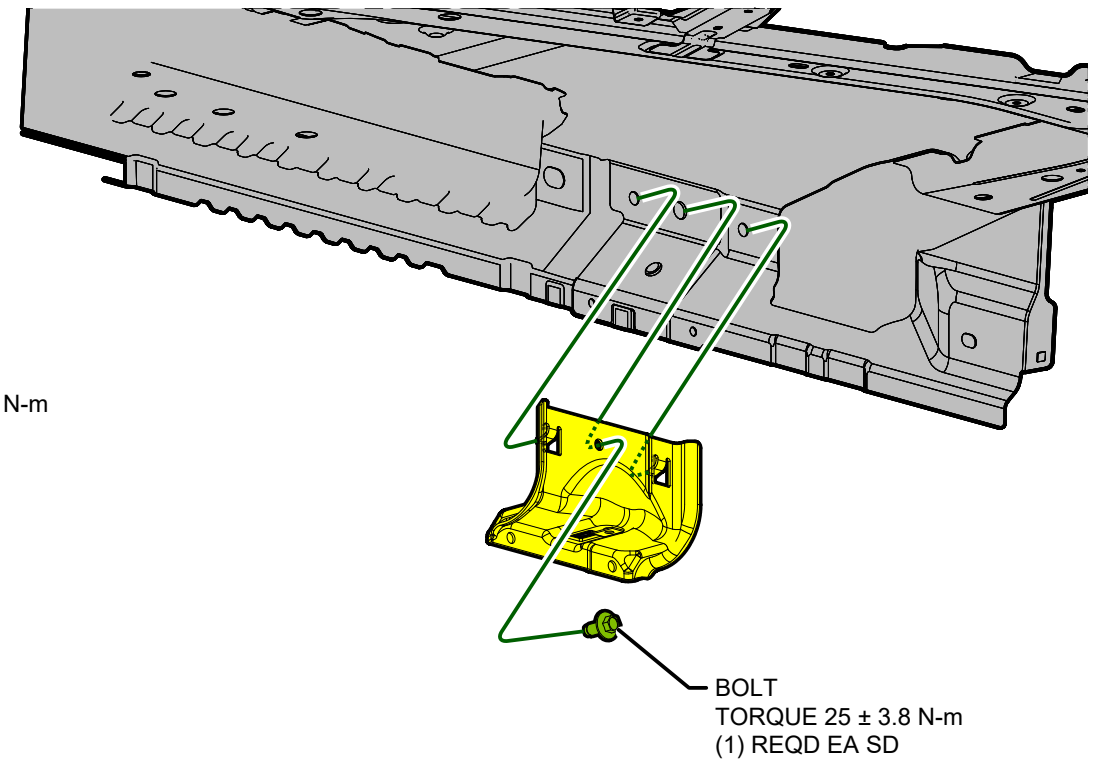
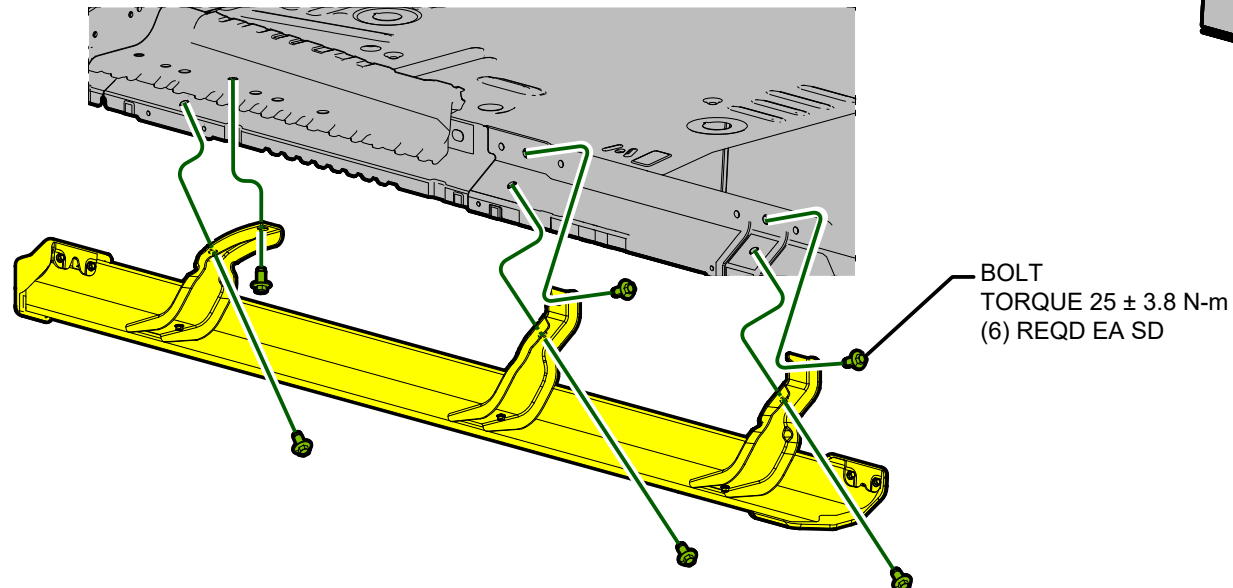
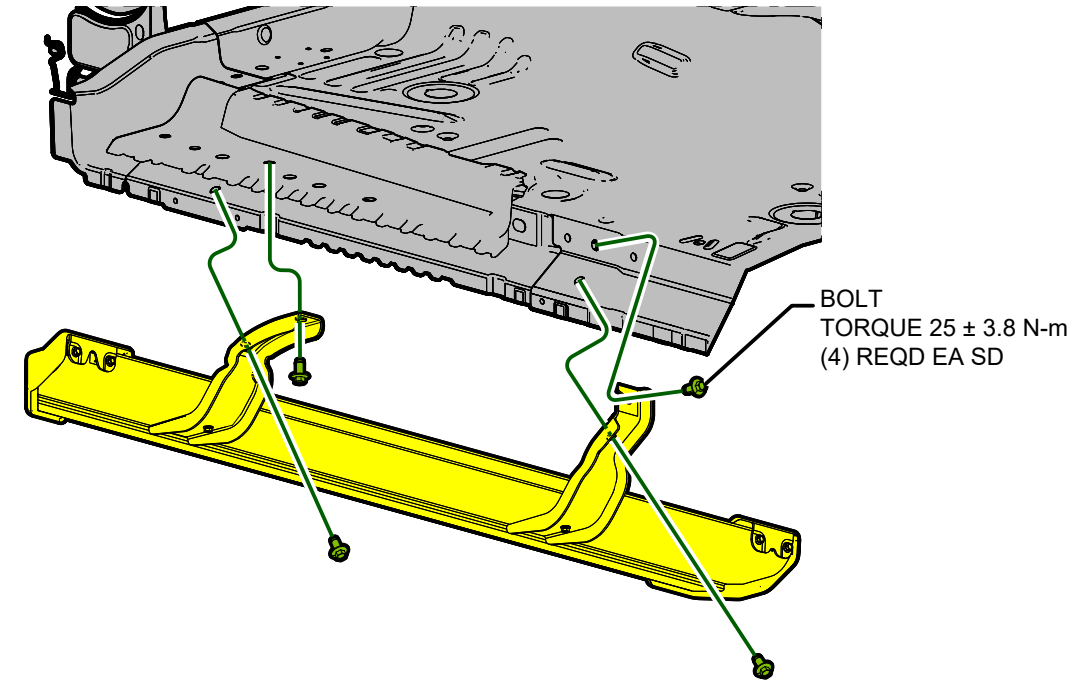
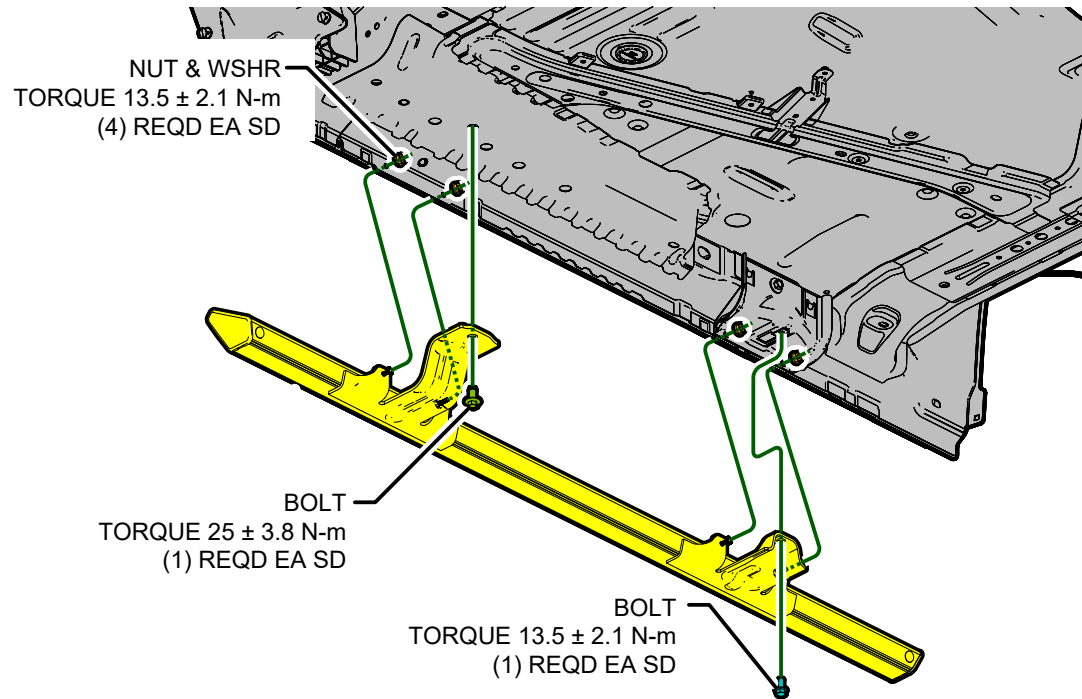
FOR SAFETY REASONS, ACCESSORIES THAT ARE STRUCTURALLY SUBSTANTIAL SHOULD REMAIN REARWARD OF THE TOW HOOKS:





BRONCO BODY MOUNTING POINTS



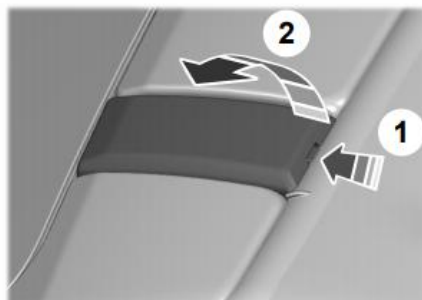


RH SHOWN
LH TYPICAL



BRONCO BODY MOUNTING POINTS

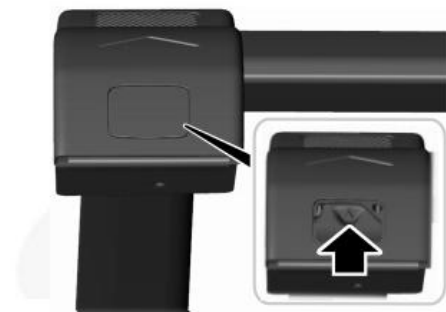
Installing the Roof Rack



1. To remove, press the button on the rear of the cover and rotate forward.
2. Remove the fasteners and remove the trim cover retaining plate.
3. Store the trim cover components.



4. Position the roof rack on the vehicle.
5. Hand start the front roof rack fasteners.
6. Using the provided T30 tool, tighten the front roof rack fasteners. Torque bolts to 7.7 lb.ft (10.5 Nm)
7. Align the cover with the alignment slot and rotate rearward.
8. Hand start the front roof rack cover fasteners.
9. Using the provided T30 tool, tighten the front roof rack cover fasteners. Torque bolts to 5.9 lb.ft (8 Nm).



Note: The rear crossbar is part of the clamping system. If you removed the crossbar you must install it first for proper attachment to the hard top.

10. Using the supplied special tool, tighten the fastener.

Note: The supplied special tool stops turning the fastener when you have proper torque applied.

11. Install the rear roof rack fastener cover.

See Owners Manual for full instructions

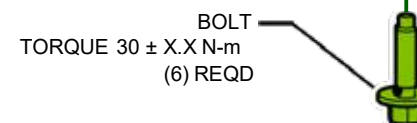
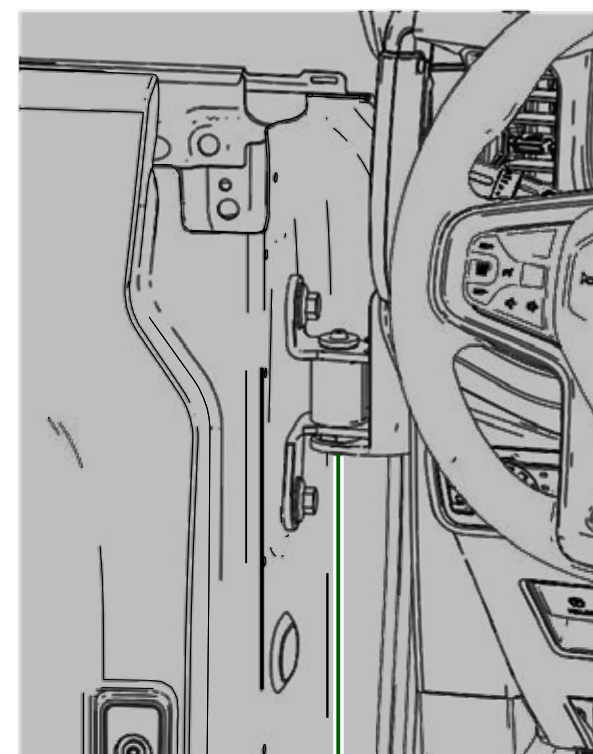
ROOF RACK LOAD CAPACITIES (G2145762)

Maximum Recommended Load Amounts

Description	Maximum Recommended Load
When in motion	110 lb (50 kg)
When stationary	450 lb (204 kg)
Vehicles with 315/70R17 Tires	0 lb (0 kg)

Note: The maximum recommended load is based on the load being evenly distributed on the crossbars.

DOOR HINGE BOLTS



Maximum Recommended Door Weights

3 Door	5 Door	Tailgate
62lbs Front	55lbs Front	133lbs
	44lbs Rear	



Bronco Equipment Installation Guide

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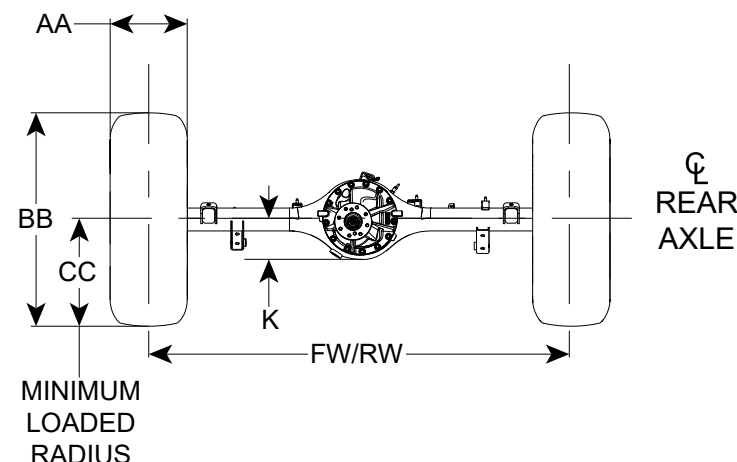
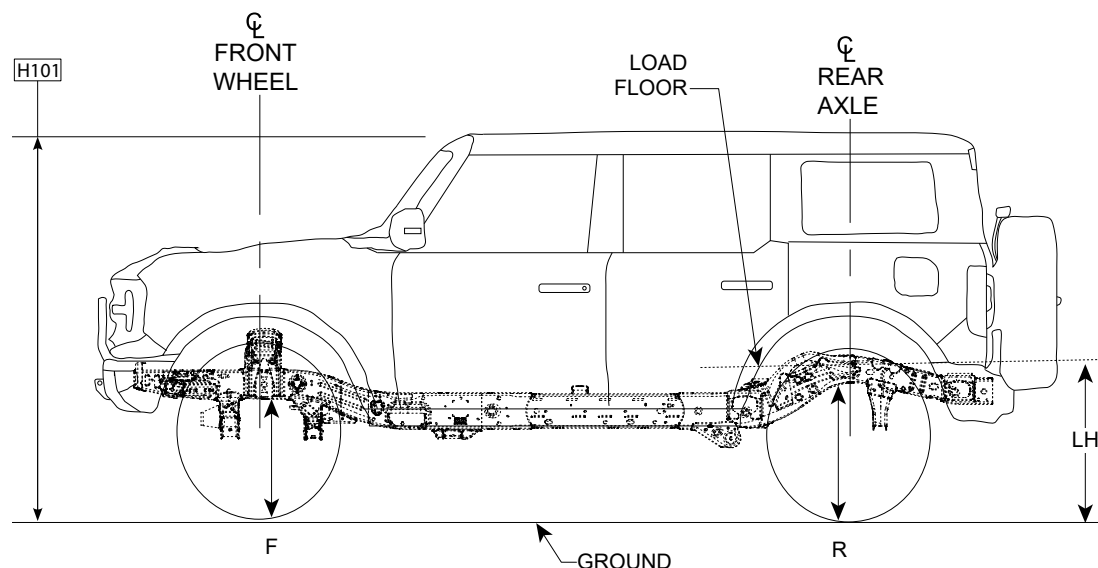
BRONCO

BRONCO

AXLE / TIRE / VEHICLE HEIGHT DATA

2023

MODEL YEAR



Model	WB inches	GVWR pounds	Tire	F Height @ Front Wheel to Bottom of Frame mm [in]		R Height @ Rear Wheel to Bottom of Frame mm [in]		LH mm [in]		H101 mm [in]		K mm [in]	AA mm [in]	BB mm [in]	CC mm [in]	W102-1 FW mm [in]	W102-1 RW mm [in]
				Height @ Base Curb Weight	Loaded Height @ Spring Rating	Height @ Base Curb Weight	Loaded Height @ Spring Rating	Empty	Loaded	Empty	Loaded						
2 Door Base	100.4	5700	P255/70R16	439 [17.3]	408 [16.1]	555 [21.9]	488 [19.2]	759 [29.9]	684 [26.9]	1826 [71.9]	1759 [69.3]	138 [5.4]	255 [10.0]	764 [30.1]	366 [14.4]	1650 [65.0]	1650 [65.0]
2 Door Badlands		5800	LT285/70R17	490 [19.3]	463 [18.2]	605 [23.8]	547 [21.5]	809 [31.9]	744 [29.3]	1875 [73.8]	1818 [71.6]	138 [5.4]	286 [11.3]	838 [33.0]	399 [15.7]	1650 [65.0]	1650 [65.0]
2 Door Sasquatch		5800	LT315/70R17	521 [20.5]	500 [19.7]	640 [25.2]	585 [23.0]	845 [33.3]	782 [30.8]	1911 [75.2]	1856 [73.1]	138 [5.4]	313 [12.3]	880 [34.6]	421 [16.6]	1698 [66.9]	1700 [66.9]
4 Door Base	116.1	6060	P255/70R16	438 [17.2]	404 [15.9]	555 [21.9]	485 [19.1]	758 [29.8]	681 [26.8]	Soft Top 1853 [73.0] Hard Top 1827 [71.9]	Soft Top 1785 [70.3] Hard Top 1761 [69.3]	138 [5.4]	255 [10.0]	764 [30.1]	365 [14.4]	1650 [65.0]	1650 [65.0]
4 Door Badlands		6180	LT285/70R17	488 [19.2]	457 [18.0]	605 [23.8]	545 [21.5]	808 [31.8]	743 [29.3]	Soft Top 1903 [74.9] Hard Top 1876 [73.9]	Soft Top 1845 [72.6] Hard Top 1821 [71.7]	138 [5.4]	286 [11.3]	838 [33.0]	399 [15.7]	1650 [65.0]	1650 [65.0]
4 Door Sasquatch		6180	LT315/70R17	520 [20.5]	493 [19.4]	640 [25.2]	583 [23.0]	844 [33.2]	781 [30.7]	Soft Top 1938 [76.3] Hard Top 1912 [75.3]	Soft Top 1883 [74.1] Hard Top 1858 [73.1]	138 [5.4]	313 [12.3]	880 [34.6]	421 [16.6]	1698 [66.9]	1700 [66.9]

(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.

*Note:

2-Door is Hard Top Only

4-Door has both Soft Top and Hard Top

Optional Roof Rack Add 92mm/[3.6] for 2-Door, Add 86mm/[3.4] for 4-Door Hard Tops



<https://fordbbas.com>



Bronco Equipment Installation Guide

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BRONCO

BRONCO

AXLE AND TRANSMISSION RATIOS

2023

MODEL YEAR

Bronco Axle Availability													
Final Drive Ratio	Front Differential	Rear Differential	Base		Big Bend		Black Diamond		Outer Banks	Wildtrak	Badlands		First Edition
			Manual	Auto	Manual	Auto	Manual	Auto	Auto	Auto	Manual	Auto	Auto
3.73	Open	Open		S		S			S				
4.27	Open	Locking				O			O				
4.46	Open	Open	S		S								
	Open	Locking			O		S	S					
	Locking	Locking										S	
4.7	Locking	Locking		O		O		O	O	S	S	O	S

Bronco Transmission Ratios			
10SP Auto		7sp Manual	
Gear	Ratio (to 1)	Gear	Ratio (to 1)
1st	4.714	Crawler	6.588
2nd	2.997	1st	4.283
3rd	2.149	2nd	2.365
4th	1.769	3rd	1.453
5th	1.521	4th	1
6th	1.275	5th	0.776
7th	1	6th	0.646
8th	0.853	Reverse	5.625
9th	0.689		
10th	0.636		
Reverse	4.885		





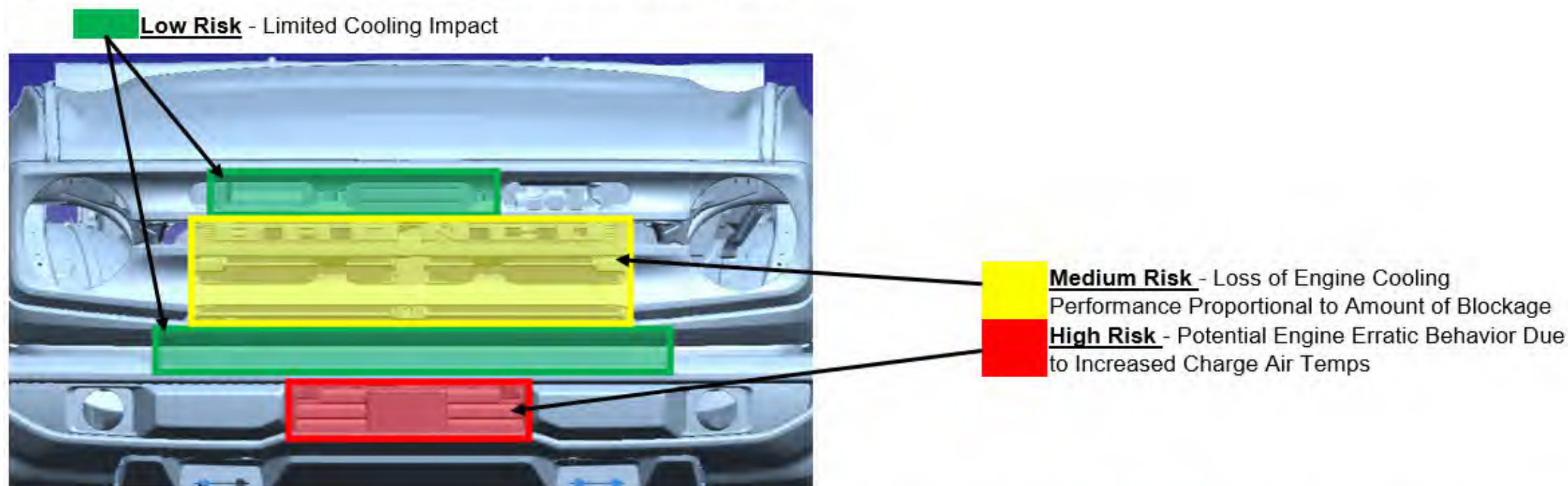
BRONCO WHEEL & TIRE DATA

Tire Specification			
Size	Rim Width (in.)	Section Width (in.)	Static Loaded Radius (in.)
255/70R16 A/S	7	256	343
255/75R17 A/T	7.5	262.6	362
255/70R18 A/T	7.5	257.8	365
LT265/70R17 A/T	7.5	270.6	400
LT285/70R17 A/T	8	280	388
LT285/70R17 M/T	8	292	386
LT315/70R17 M/T	8.5	320	404

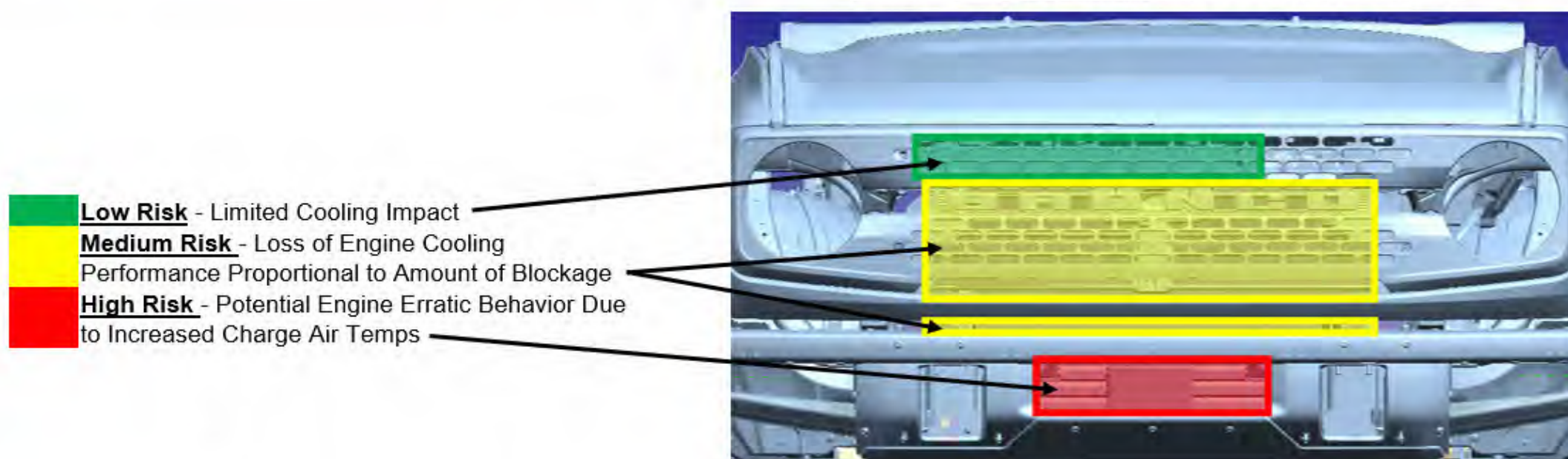
Wheel Specification				
Wheel Type	Wheel Size (in.)	Wheel Offset (in./mm)	Bolt Circle (in./mm)	No. of Studs
Base	16x7	2.1/55	5.5/139.7	6
Big Bend	17x7.5	2.1/55	5.5/139.7	6
Outer Banks	18x7.5	2.1/55	5.5/139.7	6
Black Diamond	17x7.5	2.1/55	5.5/139.7	6
Badlands	17x8	2.1/55	5.5/139.7	6
Optional Badlands	17x8	2.1/55	5.5/139.7	6
Sasquatch	17x8.5	1.2/30	5.5/139.7	6



Base, Big Bend, Outer Banks, Black Diamond Series



Badlands, Wildtrak, First Edition Series





BRONCO ELECTRICAL WIRING ACCESSORY SWITCHES AND WIRING

The Bronco is available with an Auxilliary Switch package that includes six switches wired to six powered circuits and five non-powered circuits to ease the installation of aftermarket equipment. The powered circuits are terminated in blunt cut wires in the underhood location shown. These powered circuits can be completed using the non-powered circuits provided and/or your own wire routing. Terminal locations for the non-power circuits are shown on the next page. Circuits provided are intended to complete the accessory power feed, grounds must be established for each powered circuit. Circuits are active with the ignition in the "on" position only.

Powered Circuits

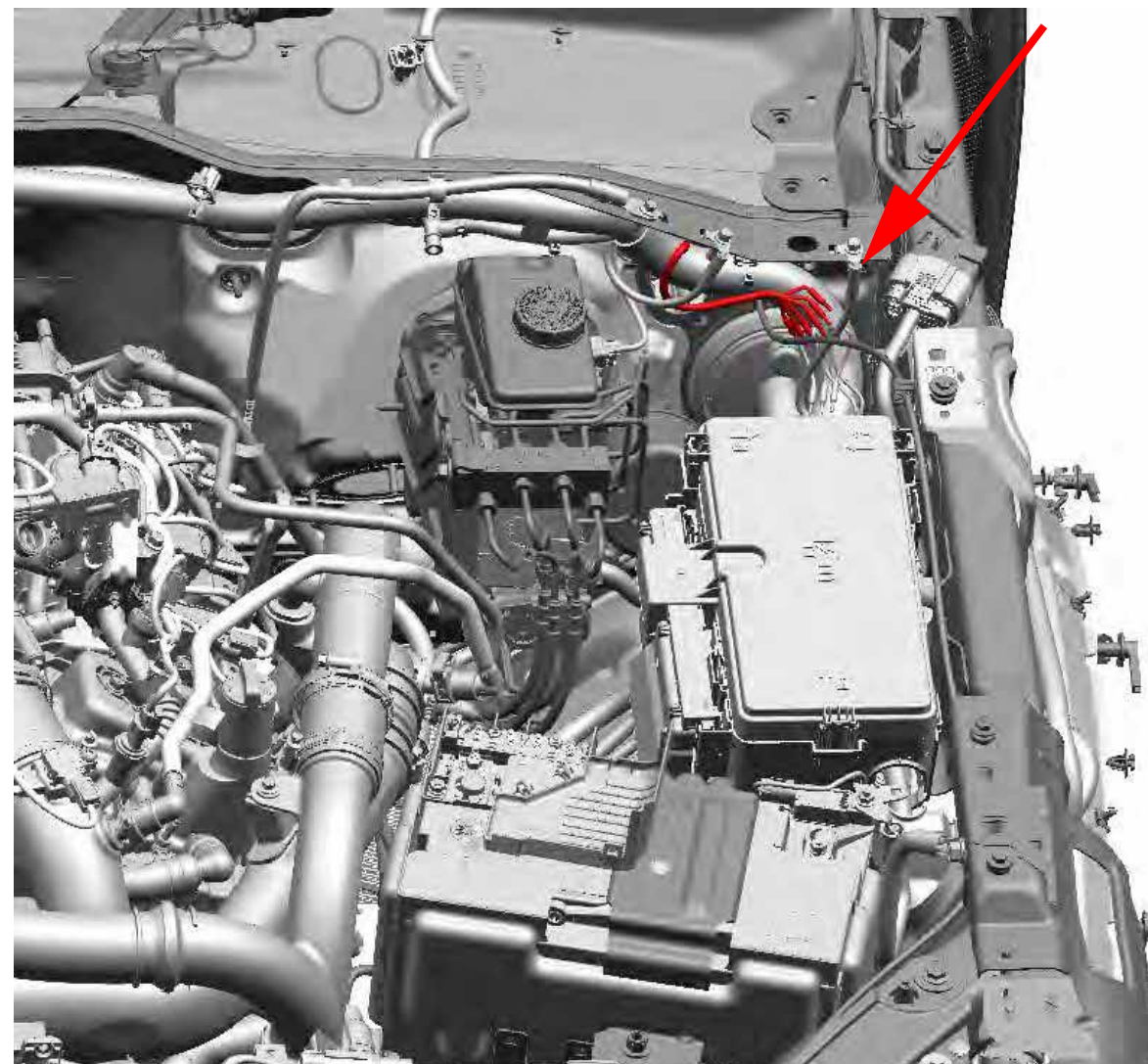
Switch Assignment	Wire Color	Wire Size	Fuse Size
AUX 1	Yellow	1.5 mm ²	30A
AUX 2	Green/Brown	1.5 mm ²	15A
AUX 3	Violet/Green	0.75 mm ²	10A
AUX 4	Brown	0.75 mm ²	10A
AUX 5	Blue/Orange	0.75 mm ²	10A
AUX 6	Yellow/Orange	0.75 mm ²	10A

Non-Powered Circuits

Terminal Location 1	Terminal Location 2	Wire Color	Wire Size (1)
A1 - Engine Compartment near Fuse Box	A2 - Passenger Compartment RH	Brown/White	1.5 mm ²
B1 - Engine Compartment near Fuse Box	B2 - Passenger Compartment RH	White	1.5 mm ²
C1 - Engine Compartment near Fuse Box	C2 - Front Grille	Violet/Grey	1.5 mm ²
D1 - Passenger Compartment RH	D2 - Right-hand Visor	Grey/Orange	1.5 mm ²
E1 - Passenger Compartment RH	E2 - Right-hand Rear Quarter Panel	White/Orange	1.5 mm ²

(1) Wiring for non-powered circuits is sized to work with any of the powered circuits.

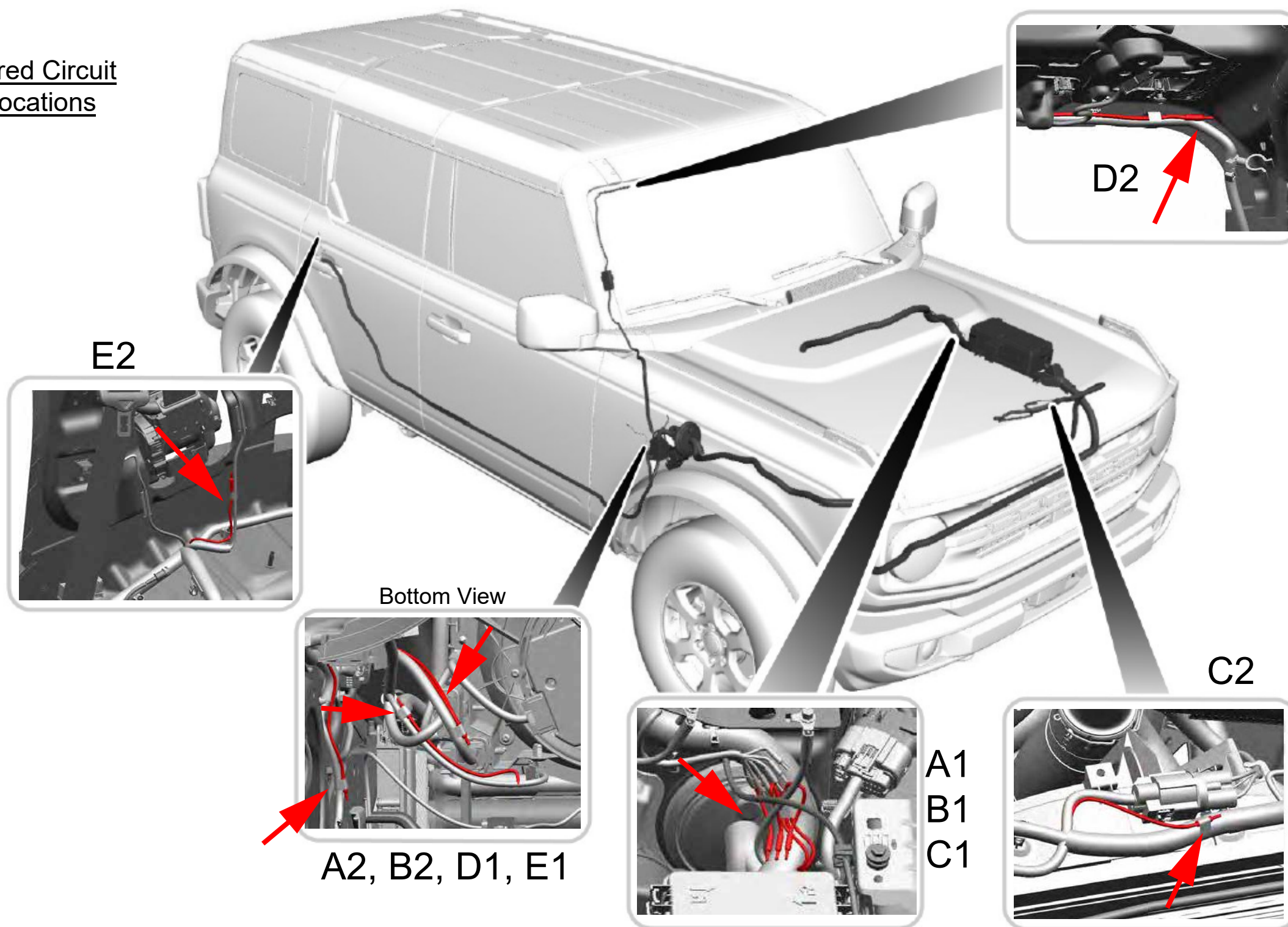
Powered Circuit Terminal Location - Underhood





BRONCO ELECTRICAL WIRING ACCESSORY SWITCHES AND WIRING (Con't)

Non-Powered Circuit Terminal Locations





BRONCO ELECTRICAL WIRING ADDED CIRCUITS

B+ (Hot at All Times)

Any added circuits must be appropriately fused (as close as possible to the battery) and connected to the positive battery terminal in the locations shown.

- The maximum recommended thickness of terminal(s) being installed is 2.5mm.
- The two open terminal studs have different size threads (see below). Use Property Class 8 or 10 nuts for this application.

Circuit Grounding

Ground wires for winch or other high current accessories can be connected directly to the battery B- terminal in the location shown. If grounding to the body, do not use existing vehicle grounding points, new ground location(s) must be established.

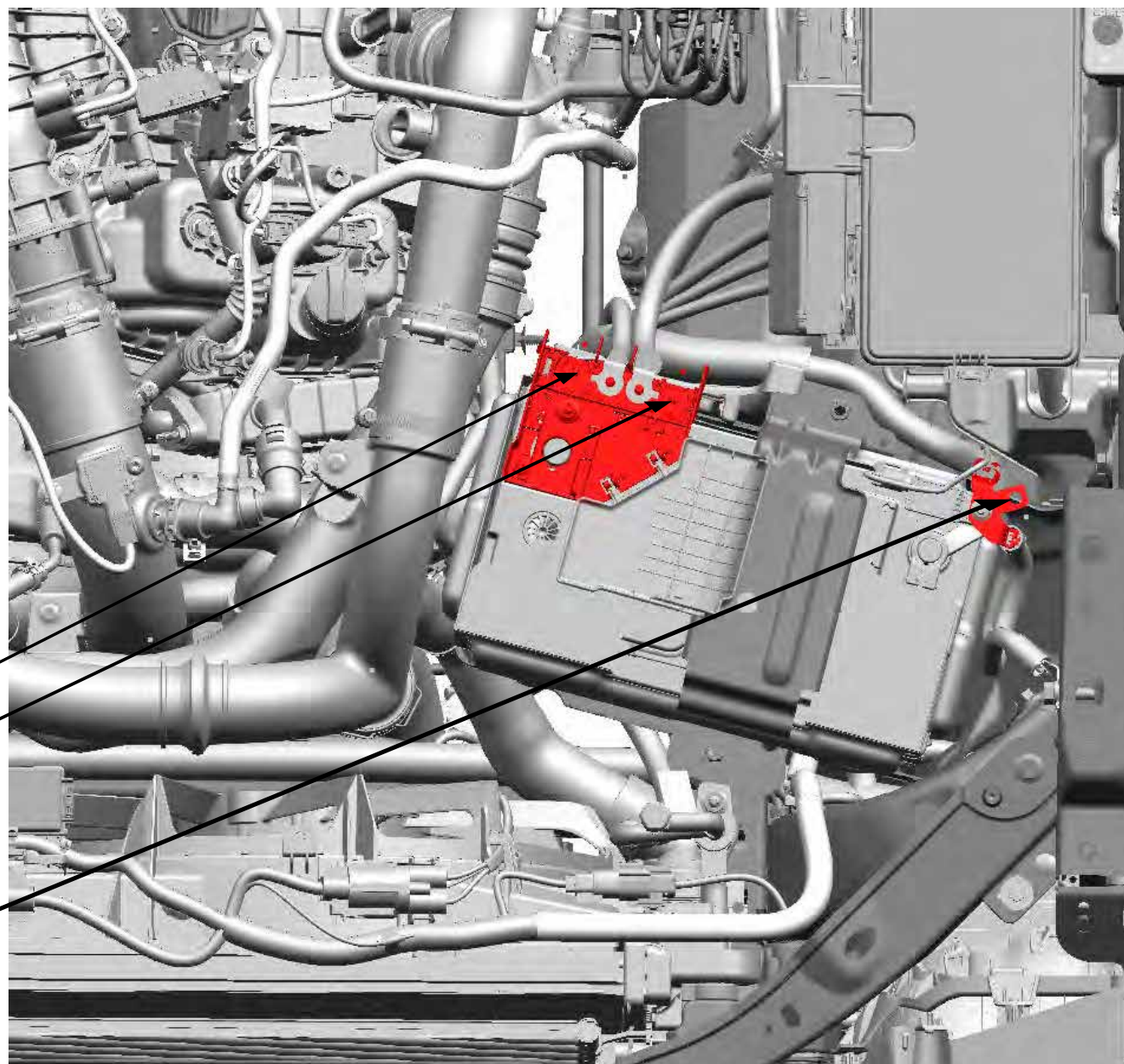
Locations for B+ connection

M5 Nut, torque to 5.4 +/- 0.9 Nm

M6 Nut, torque to 10 +/- 1.5 Nm

Max eyelet diameter: 18 mm

Location for B- connection
8.5 mm diameter hole

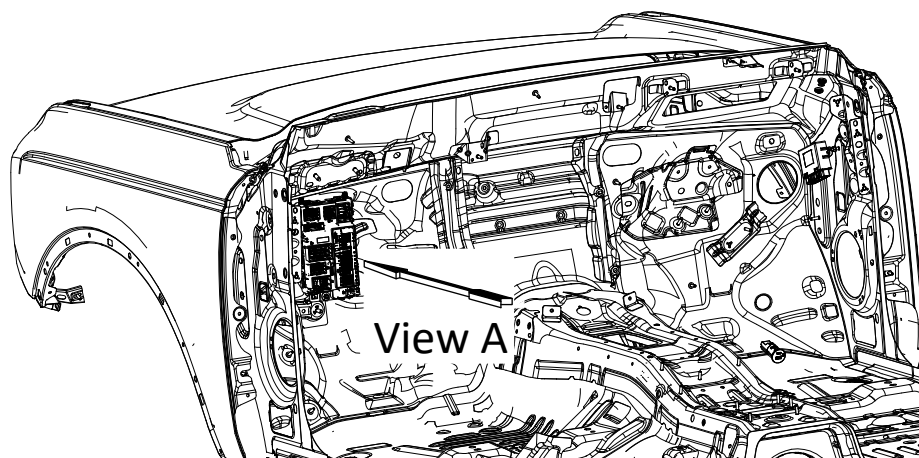




BRONCO ELECTRICAL WIRING ADDED CIRCUITS, CONT'D

Delayed Accessory

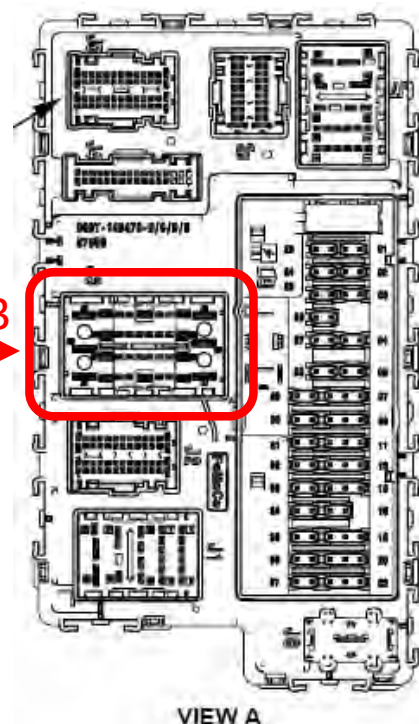
When installing auxiliary equipment that is active with delayed accessory, a BCM feed can be used to directly power added circuit(s) not exceeding 30A consumption. Install a female terminal kit (DU2Z-14474-JA) into the open location in BCM Connector 3, Pin 36 to start the circuit(s). This BCM output is protected by BCM Fuse #38, rated at 30 Amps. If power consumption of added equipment exceeds 30 Amps, the terminal kit inserted in BCM connector 3, pin 36 can be used to drive relay(s) connected directly to B+.



Run / Start

When installing auxiliary equipment that is active with Run / Start condition, a relay connected to B+ must be installed. That relay can then be driven by a run / start feed from the BCM. Install a female terminal kit (DU2Z-14474-DA) into the open location in BCM Connector 3, Pin 23. The terminal kit should then be connected to the relay input (can install a switch between the fuse and relay). This circuit is protected by BCM fuse #22, rated at 5 Amps.

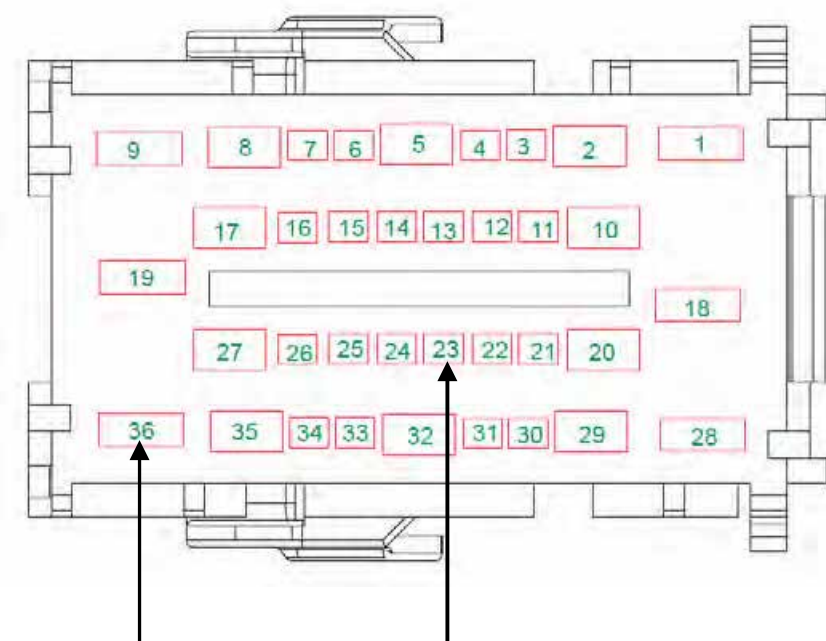
BCM Front View



Connector 3

Note: BCM Connector 3 has a black plastic cover that will need to be temporarily removed to install the terminal kit(s)

View of Front Face of BCM Connector 3



Delayed Accessory Feed

Run / Start Feed

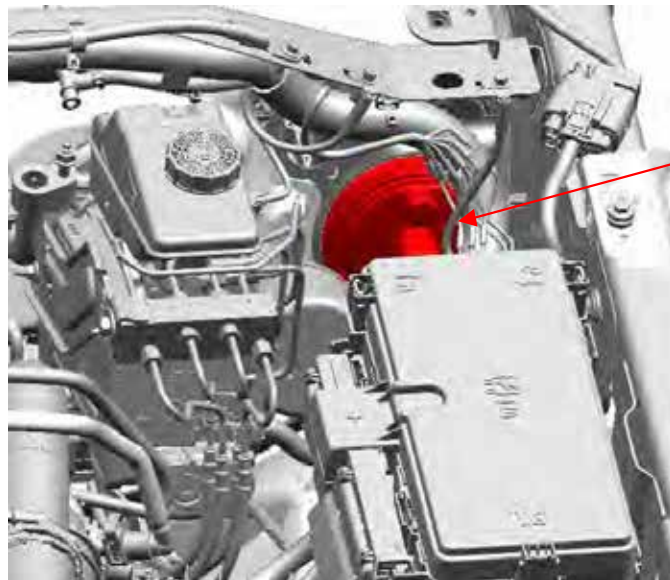


BRONCO ELECTRICAL WIRING WIRING PASS THROUGH LOCATIONS

Passing wires through the vehicle dash panel is best done using the existing wiring grommets, which have a provision specifically for that purpose (See Detail A). Detail A shows the driver side grommet, there is also a similar grommet on the passenger side. Passing wires to roof mounted accessories should be done under the passenger side roof ditch molding as shown in Detail B (drilling required).

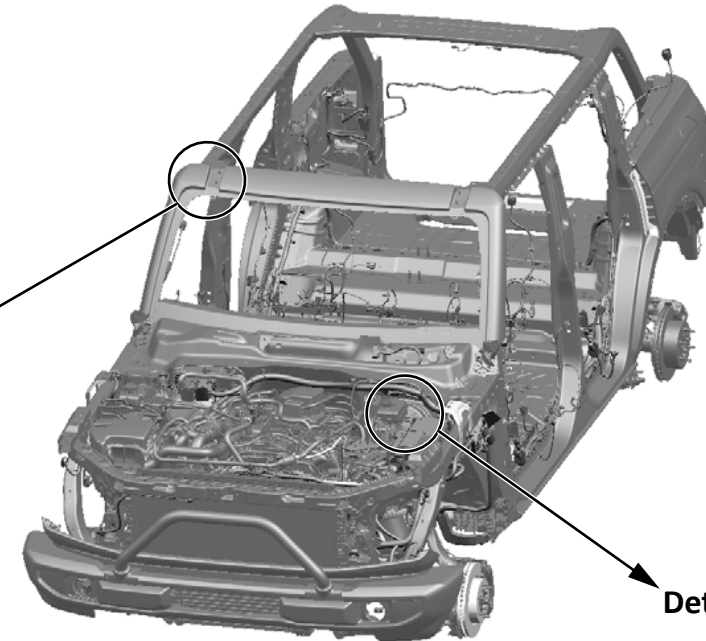
LH Dash Wiring Grommet

(View rotated for better visibility)



Dash Wire
Grommet

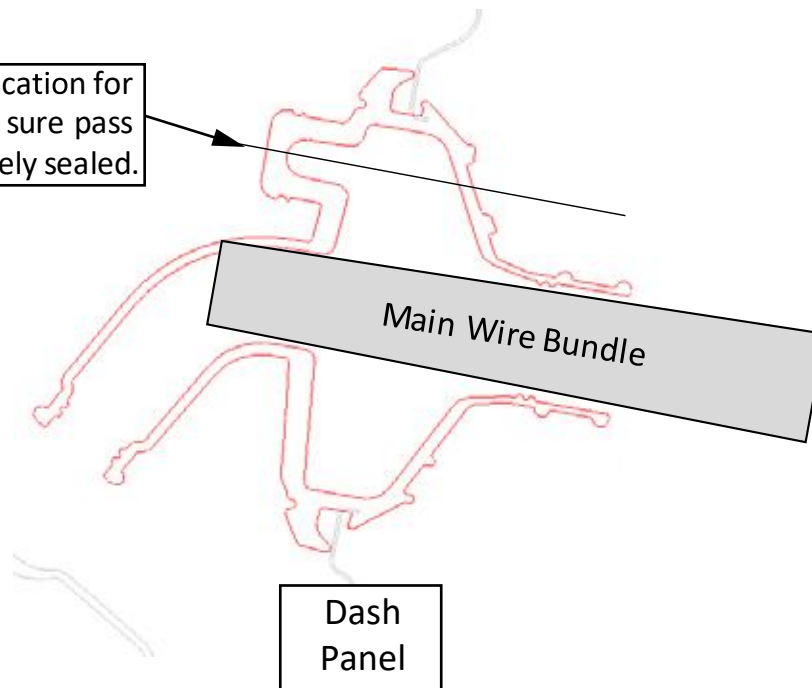
Detail B



Detail A

Detail A - Section Through Dash Wiring Grommet

Pass Through Location for
Additional Wiring. Make sure pass
through is adequately sealed.



Main Wire Bundle

Dash
Panel

Remove RH Roof Ditch
Molding and Molding
Retainer. Use the dimple
provided in the sheet metal
as a drill start point, drilling
perpendicular to the exterior
sheet metal surface. MAX
DRILL SIZE is 7/16" diameter.
Make sure pass through is
adequately sealed. When re-
installing the molding
retainer, torque attachment
nuts to 10.5 +/- 1.6 Nm.

Detail B - Roof Ditch Molding



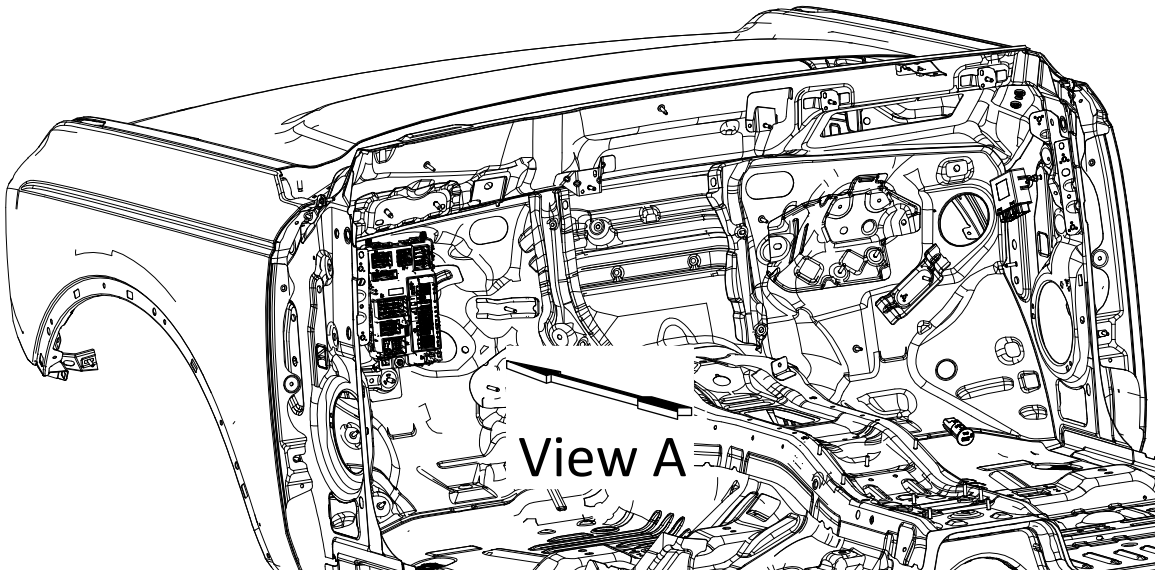


BRONCO
CHMSL CIRCUIT

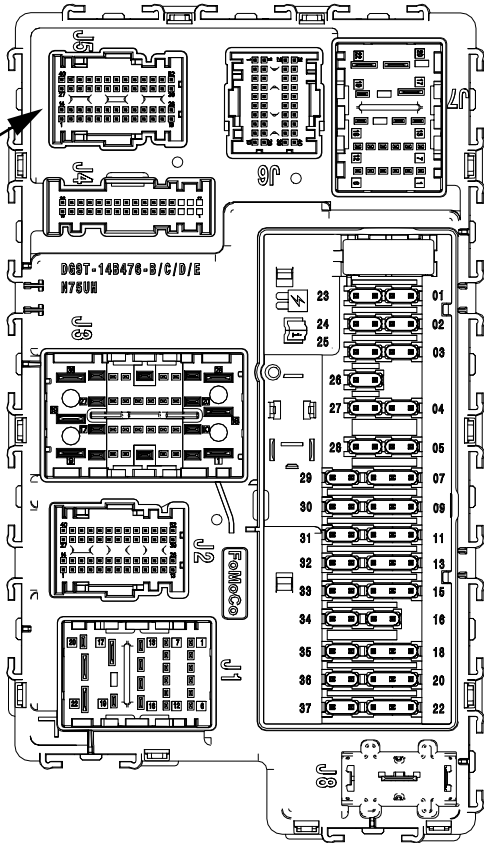
When Equipment is mounted that blocks the factory CHMSL, An auxiliary CHMSL must be fitted.

Circuit Type	Max Current (1) (3)	Factory CHMSL Load (3)	Circuit Reserve Capacity with Factory CHMSL (2)
Non-PWM	1.70A	0.20A	1.50A

- Notes:
- (1) - The Maximum current load for the circuit must not be exceeded
 - (2) - If auxiliary CHMSL exceeds the reserve capacity, the factory CHMSL must be disconnected.
 - (3) - Continuous at 12V



CHMSL CIRCUIT
BCM (LH UNDER DASH)
CONNECTOR 5, PIN 13
WIRE COLOR : YE/GY



VIEW A



WARNING:

Head and Tail Lamp circuits must not be modified or reconfigured in any way when using the factory supplied lamps. If using after market Head or Tail Lamps, or if circuits are modified or reconfigured, the vehicle alterer assumes all responsibility for vehicle compliance to lighting related regulations.

Head Lamp Connector

Head Lamp Pin Out Mating Connector: 10 way Male - Molex 33482-1601				
Func on (4)	Pin #	Wire Color	Circuit Type	Max Current (2)
Low Beam	1	RH: BU / GN LH: BN / BU	Non-PWM	4.2 A
Turn	2	RH: YE/ VT LH: BU/ GN	Non-PWM	2.2 A
Turn Lamp Outage	4	RH: BU/ WT LH: YE/ GN	N/A	N/A
Lin Network	5	YE/ VT	Network	N/A
Daytime Running Lights	7	RH: VT / WT LH: GY / BU	Non-PWM	2.3 A
High Beam	8	RH: BU / GY LH: YE / VT	Non-PWM	20A Fused
Park	9	RH: BN / YE LH: GN / OG	Non-PWM	1.0 A
Ground	10	RH: BK / GY LH: BK / GN	N/A	N/A

Notes

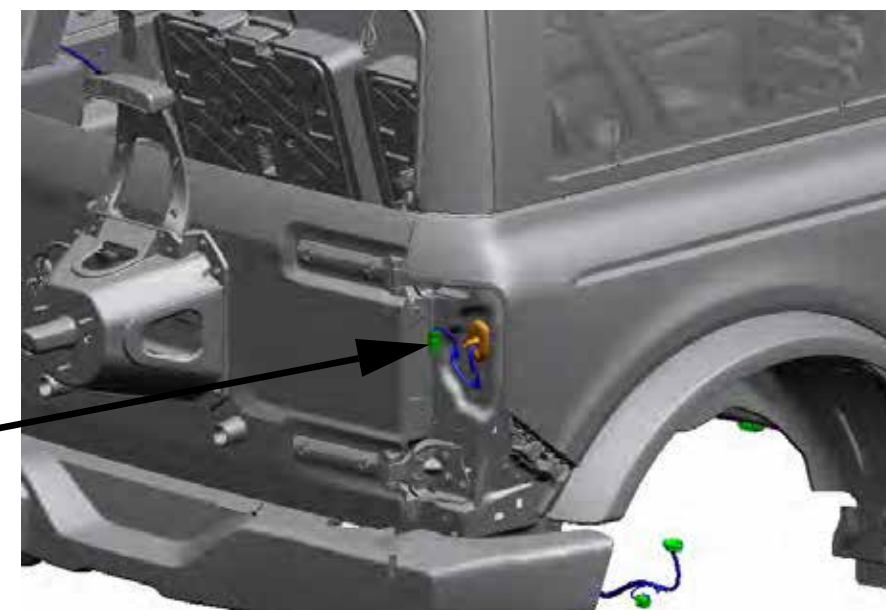
- (1) Combined Load for RH and LH Lamps
- (2) Continuous at 12V
- (3) Tail Lamp circuits are reconfigurable between separated and combined Stop and Turn*
- (4) Head Lamp circuit functions are reconfigurable in various ways*

*Requires a certified service technician with a Ford Diagnosis and Repair System (FDRS) tool.

Tail Lamp Pin Out HALOGEN Mating Connector 6 way Male - Molex 33482-3602				
Function	Pin #	Wire Color	Circuit Type	Max Current (2)
Reverse	4	GN / BN	PWM	3.9 A (1)
Park	2	BU/ GY	PWM	1.6 A (1)
Stop / Turn (3)	3	RH: GY / VT LH: WH / GN	PWM	1.9 A
Ground	1	BK / GY	N/A	6.8 A

Tail Lamp Pin Out LED Mating Connector 6 way Male - Molex 33482-3602				
Function	Pin #	Wire Color	Circuit Type (3)	Max Current (2)
Reverse	4	GN / BN	Non-PWM	3.9 A (1)
Park	2	BU/ GY	Non-PWM	1.6 A (1)
Stop (3)	3	RH: BU / BN LH: BU / GN	Non-PWM	1.9 A
Turn (3)	5	RH: GN / OG LH: GY / OG	Non-PWM	1.9 A
Turn Lamp Outage	6	RH: BU / OG LH: GN / BU	N/A	N/A
Ground	1	BK / GY	N/A	6.8 A

Tail Lamp Connector





Bronco Equipment Installation Guide

BRONCO

2023
MODEL YEAR

CHANGE CONTROL INDEX

LTRS	REVISIONS				
ORIGINATOR	CHECKER	ENGR APP	MATL APP		
CHP2D4-000000-BBLB-AA-01-FNA-ECN/1			INITIAL RELEASE		
RELEASED			20221027		
TNARESH	GPRABHU6	SLAZARZ	--		