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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



Bronco Equipment Installation Guide

BRONCO

MODEL LINEUP: 2 DOOR

Vehicle Description	Engine	Trans	WB (in)	GVWR (lbs)	Max Advertised Payload	Base Curb Weight			Min Front	GAWR			Axle Rating		Spring Rating		Max Total ARC	Max GCWR
						Front	Rear	Total		Max Front	Min Rear	Max Rear	Max Front	Max Rear	Conventional Max Front	Conventional Max Rear		
2.3L GTDi MT88 ESOF SWB																		
2.3L GTDi MT88 ESOF SWB Base	2.3L GTDi	MT88	100.4	5540	1160	2364	1972	4336	2900	2900	3070	3070	2900	3070	2900	3070	584	8500
2.3L GTDi MT88 ESOF SWB Big Bend (Export)	2.3L GTDi	MT88	100.4	5540	1118	2390	1988	4378	2900	2900	3070	3070	2900	3070	2900	3070	542	8500
2.3L GTDi MT88 EMTC SWB																		
2.3L GTDi MT88 EMTC SWB SASQUATCH	2.3L GTDi	MT88	100.4	5700	1094	2477	2082	4560	2900	2900	3070	3070	2900	3070	2900	3070	473	8980
2.3L GTDi MT88 EMTC SWB Badlands	2.3L GTDi	MT88	100.4	5740	1005	2561	2127	4687	2900	2900	3070	3070	2900	3070	2900	3070	346	8980
2.3L GTDi 10R60 ESOF SWB																		
2.3L GTDi 10R60 ESOF SWB Base	2.3L GTDi	10R60	100.4	5540	1140	2380	1976	4356	2900	2900	3070	3070	2900	3070	2900	3070	564	8500
2.3L GTDi 10R60 ESOF SWB Big Bend (Export)	2.3L GTDi	10R60	100.4	5540	1101	2402	1993	4395	2900	2900	3070	3070	2900	3070	2900	3070	525	8500
2.3L GTDi 10R60 EMTC SWB																		
2.3L GTDi 10R60 EMTC SWB Base Sasquatch	2.3L GTDi	10R60	100.4	5700	1075	2493	2085	4579	2900	2900	3070	3070	2900	3070	2900	3070	454	8980
2.3L GTDi 10R60 EMTC SWB BB/Black Diamond	2.3L GTDi	10R60	100.4	5700	1039	2492	2122	4614	2900	2900	3070	3070	2900	3070	2900	3070	419	8980
2.3L GTDi 10R60 EMTC SWB BADLANDS	2.3L GTDi	10R60	100.4	55740	986	2577	2130	4706	2900	2900	3070	3070	2900	3070	2900	3070	327	8980
2.7L GTDi 10R60 ESOF SWB																		
2.7L GTDi 10R60 ESOF SWB Black Diamond	2.7L GTDi	10R60	100.4	5780	1036	2589	2107	4696	3000	3000	3000	3000	3000	3000	3000	3000	464	8780
2.7L GTDi 10R60 EMTC SWB																		
2.7L GTDi 10R60 EMTC SWB Badlands	2.7L GTDi	10R60	100.4	5860	981	2697	2134	4830	3000	3000	3070	3070	3000	3070	3000	3070	410	9120
2.7L GTDi 10R60 EMTC SWB Oates	2.7L GTDi	10R60	100.4	5860	724	2814	2271	5084	3000	3000	3070	3070	3000	3070	3000	3070	156	9120

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

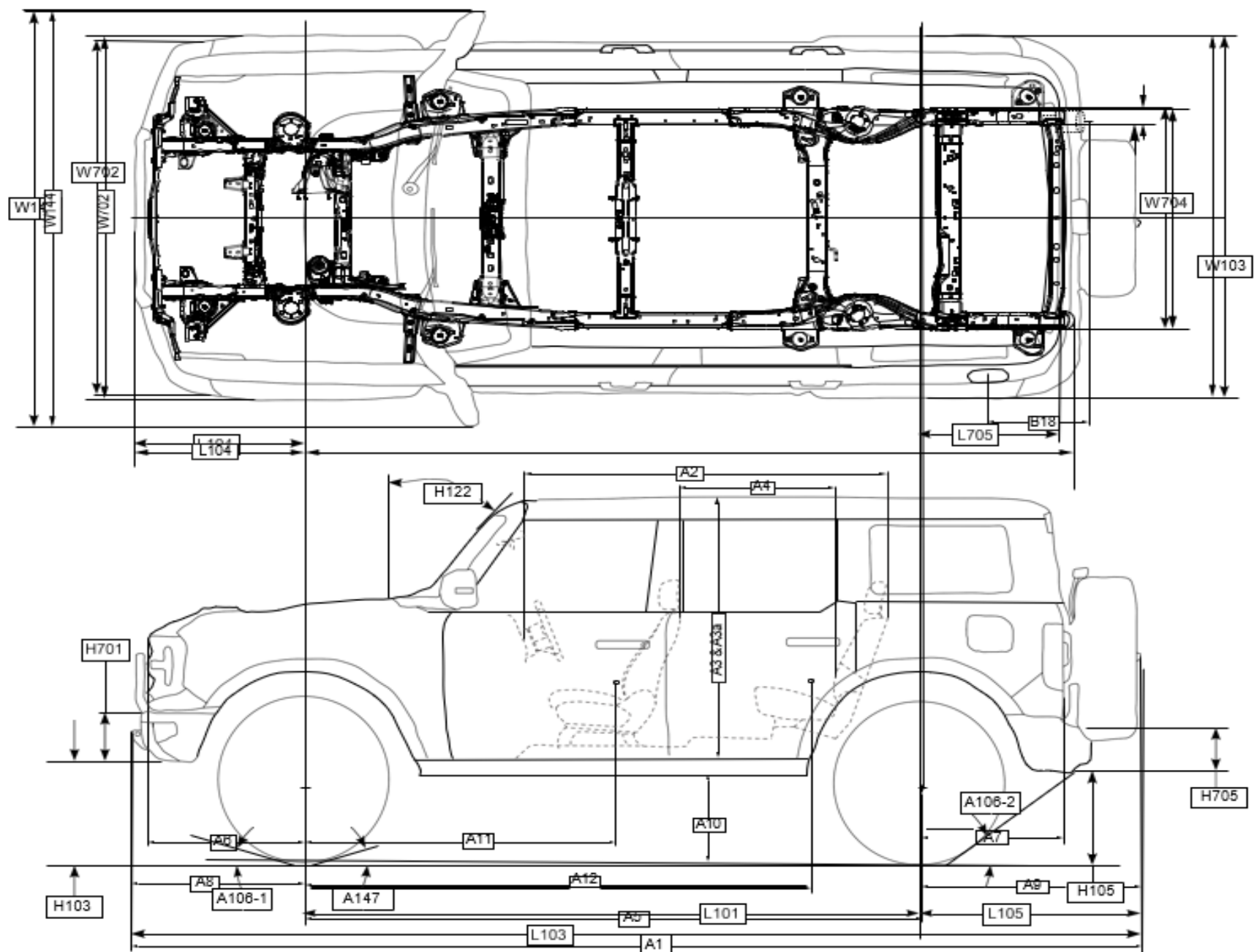
BRONCO

MODEL LINEUP: 4 DOOR

Vehicle Description	Engine	Trans	WB (in)	GVWR (lbs)	Max Advertised Payload	Base Curb Weight			Min Front	GAWR				Axle Rating		Spring Rating		Max Total ARC	Max GCWR
						Front	Rear	Total		Max Front	Max Rear	Max Front	Max Rear	Max Front	Max Rear				
2.3L GTDi MT88 ESOF LWB																			
2.3L GTDi MT88 ESOF LWB BASE	2.3L GTDi	MT88	116.1	5920	1327	2500	2007	4507	3090	3090	3070	3070	3090	3070	3090	3070	643	8500	
2.3L GTDi MT88 ESOF LWB Big Bend	2.3L GTDi	MT88	116.1	5920	1306	2513	2014	4527	3090	3090	3070	3070	3090	3070	3090	3070	623	8500	
2.3L GTDi MT88 EMTC LWB																			
2.3L GTDi MT88 EMTC LWB Base Sasquatch	2.3L GTDi	MT88	116.1	5980	1190	2612	2131	4742	3180	3180	3070	3070	3180	3070	3180	3070	468	8980	
2.3L GTDi MT88 EMTC LWB Heritage Std	2.3L GTDi	MT88	116.1	6000	1042	2683	2206	4888	3180	3180	3070	3070	3180	3070	3180	3070	322	8980	
2.3L GTDi MT88 EMTC LWB Big Bend	2.3L GTDi	MT88	116.1	6030	1150	2659	2170	4832	3180	3180	3070	3070	3180	3070	3180	3070	428	8980	
2.3L GTDi MT88 EMTC LWB Badlands	2.3L GTDi	MT88	116.1	6100	1118	2740	2192	4932	3180	3180	3070	3070	3180	3070	3180	3070	398	8980	
2.3L GTDi 10R60 ESOF LWB																			
2.3L GTDi 10R60 ESOF LWB Base	2.3L GTDi	10R60	116.1	5920	1344	2520	2010	4531	3090	3090	3070	3070	3090	3070	3090	3070	620	8500	
2.3L GTDi 10R60 ESOF LWB Big Bend	2.3L GTDi	10R60	116.1	5920	1323	2533	2018	4551	3090	3090	3070	3070	3090	3070	3090	3070	600	8500	
2.3L GTDi 10R60 ESOF LWB Outer Banks	2.3L GTDi	10R60	116.1	5920	1231	2575	2067	4642	3090	3090	3070	3070	3090	3070	3090	3070	508	8500	
2.3L GTDi 10R60 EMTC LWB																			
2.3L GTDi 10R60 EMTC LWB Base Sasquatch	2.3L GTDi	10R60	116.1	6020	1208	2632	2133	4764	3180	3180	3070	3070	3180	3070	3180	3070	486	8980	
2.3L GTDi 10R60 EMTC LWB OBX Sasquatch	2.3L GTDi	10R60	116.1	6020	1124	2677	2170	4847	3180	3180	3070	3070	3180	3070	3180	3070	403	8980	
2.3L GTDi 10R60 EMTC LWB Big Bend	2.3L GTDi	10R60	116.1	6050	1147	2679	2175	4854	3180	3180	3070	3070	3180	3070	3180	3070	426	8980	
2.3L GTDi 10R60 EMTC LWB Black Diamond	2.3L GTDi	10R60	116.1	6050	1147	2679	2175	4854	3180	3180	3070	3070	3180	3070	3180	3070	426	8980	
2.3L GTDi 10R60 EMTC LWB Everglades	2.3L GTDi	10R60	116.1	6280	992	2988	2247	5235	3300	3300	3070	3070	3300	3070	3300	3070	99.8	8980	
2.7L GTDi 10R60 ESOF LWB																			
2.7L GTDi 10R60 ESOF LWB OBX (Export)	2.7L GTDi	10R60	116.1	6060	1248	2686	2078	4764	3220	3070	3070	3070	3220	3070	3220	3070	526	8740	
2.7L GTDi 10R60 EMTC LWB																			
2.7L GTDi 10R60 EMTC LWB OBX Sasq (Export)	2.7L GTDi	10R60	116.1	6160	1141	2788	2181	4969	3300	3300	3070	3070	3300	3070	3300	3070	421	9120	
2.7L GTDi 10R60 EMTC LWB Heritage	2.7L GTDi	10R60	116.1	6100	1017	2814	2219	5032	3300	3300	3070	3070	3300	3070	3300	3070	298	9120	
2.7L GTDi 10R60 EMTC LWB Badlands	2.7L GTDi	10R60	116.1	6220	1093	2871	2205	5076	3300	3300	3070	3070	3300	3070	3300	3070	374	9120	

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





DIMENSIONAL DATA: RIDE HEIGHT, CAB HEIGHT & FRAME LENGTH

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	379 [14.9]	463 [18.2]	491 [19.3]	379 [14.9]	463 [18.2]	491 [19.3]
H105	BOTTOM OF REAR BUMPER TO GROUND @ CURB	436 [17.2]	482 [19.0]	519 [20.4]	435 [17.1]	481 [18.9]	518 [20.4]
A106-1	APPROACH ANGLE @ CURB (DEGREES)	35.7	40.4	43.2	35.7	40.3	43.2
A106-2	DEPARTURE ANGLE @ CURB (DEGREES) (TO REAR TOW HOOKS)	29.9	34.1	37.2	29.8	34.0	37.0
	(TO REAR BUMPER - TOW HOOKS REMOVED)	34.4	38.6	41.6	34.3	38.5	41.4
A147	RAMP BREAKOVER ANGLE @ CURB (DEGREES)	21.3	25.9	29.0	19.6	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 [79.3]	1928 [75.9]	1937 [76.3]	2015 [79.3]
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: Big Bend (Plastic), Badlands (Modular), Sasquatch (Steel)

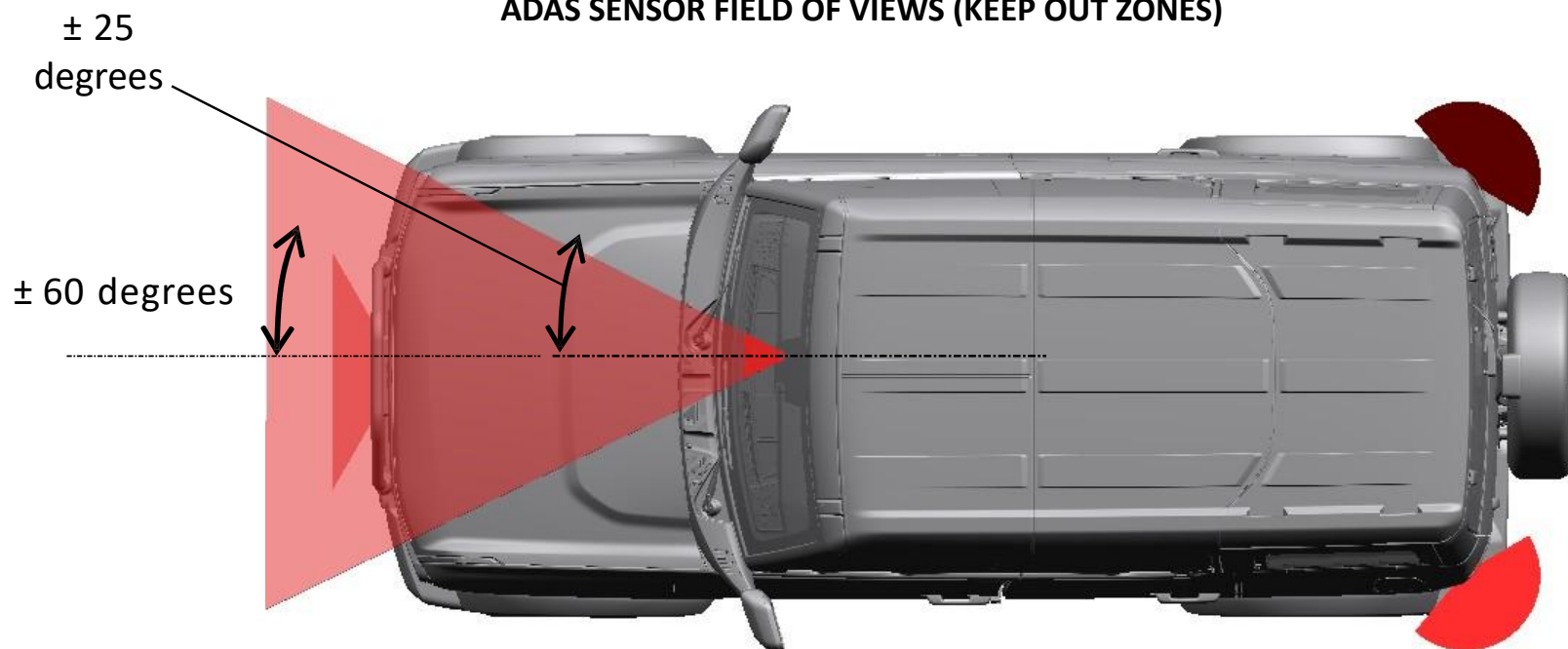
Note: Badlands & Sasquatch measured to Design Nominal tire sidewall

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

DIMENSIONS SHOWN IN mm [in]



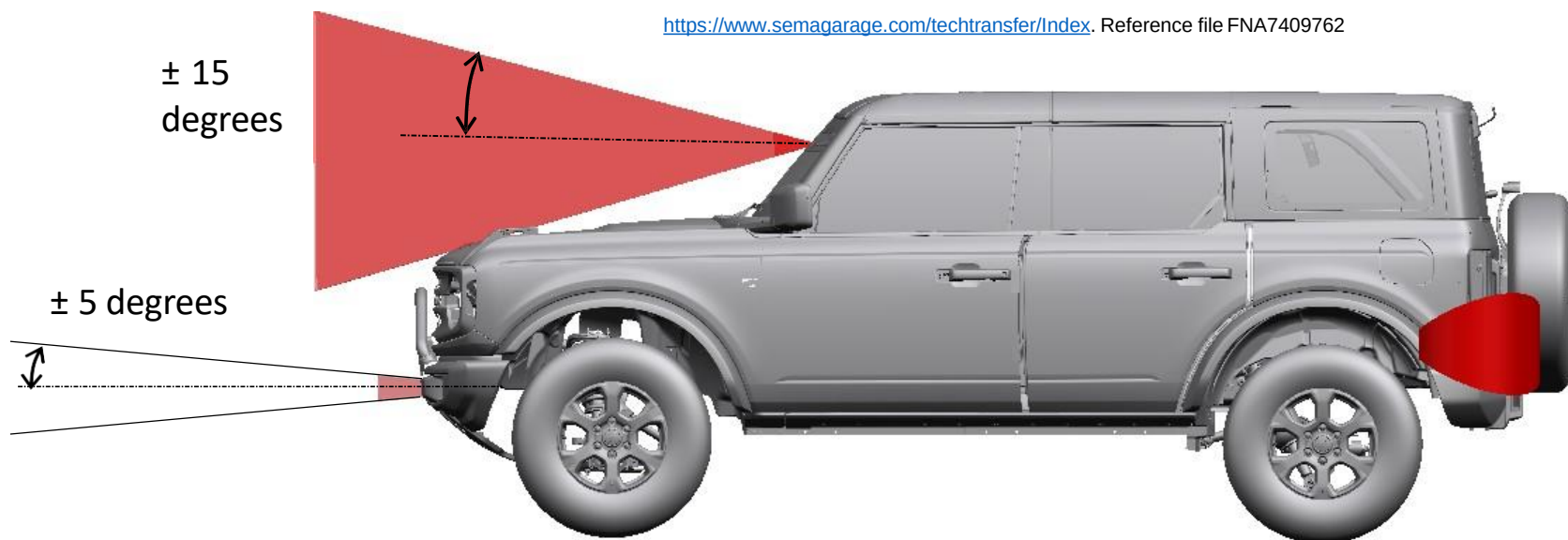
ADAS SENSOR FIELD OF VIEWS (KEEP OUT ZONES)

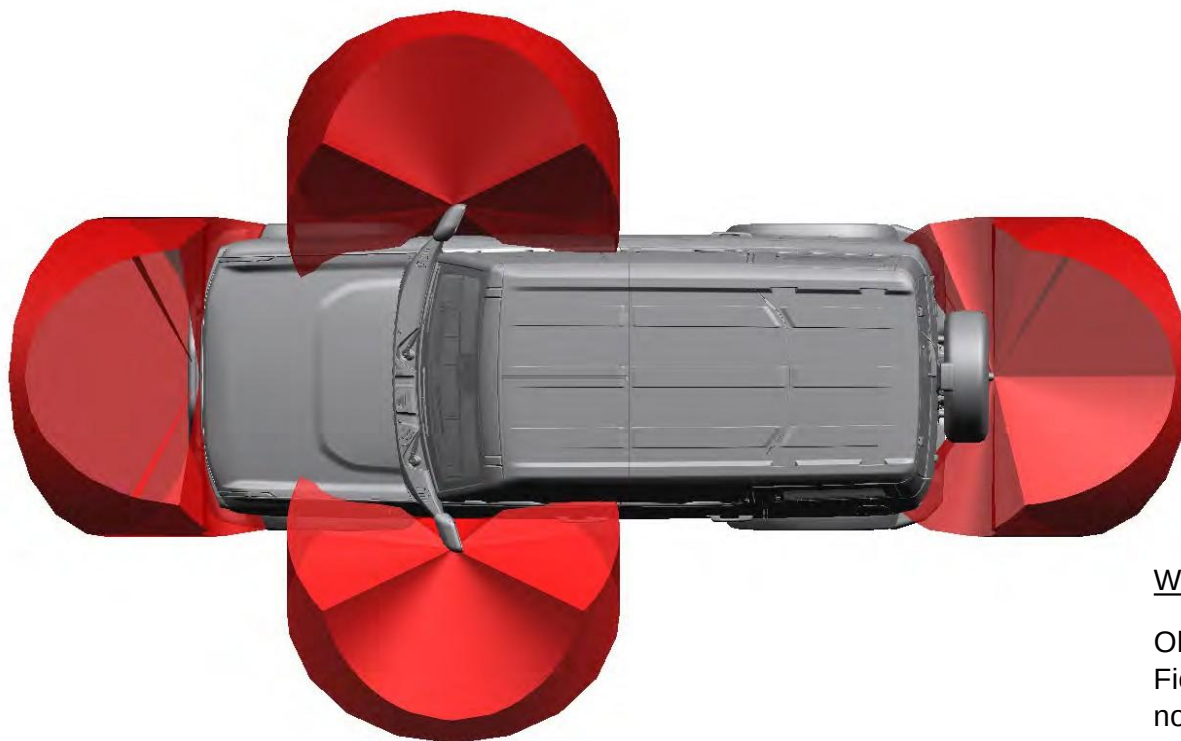


Installed equipment should not infringe on the sensor field of view zones.

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

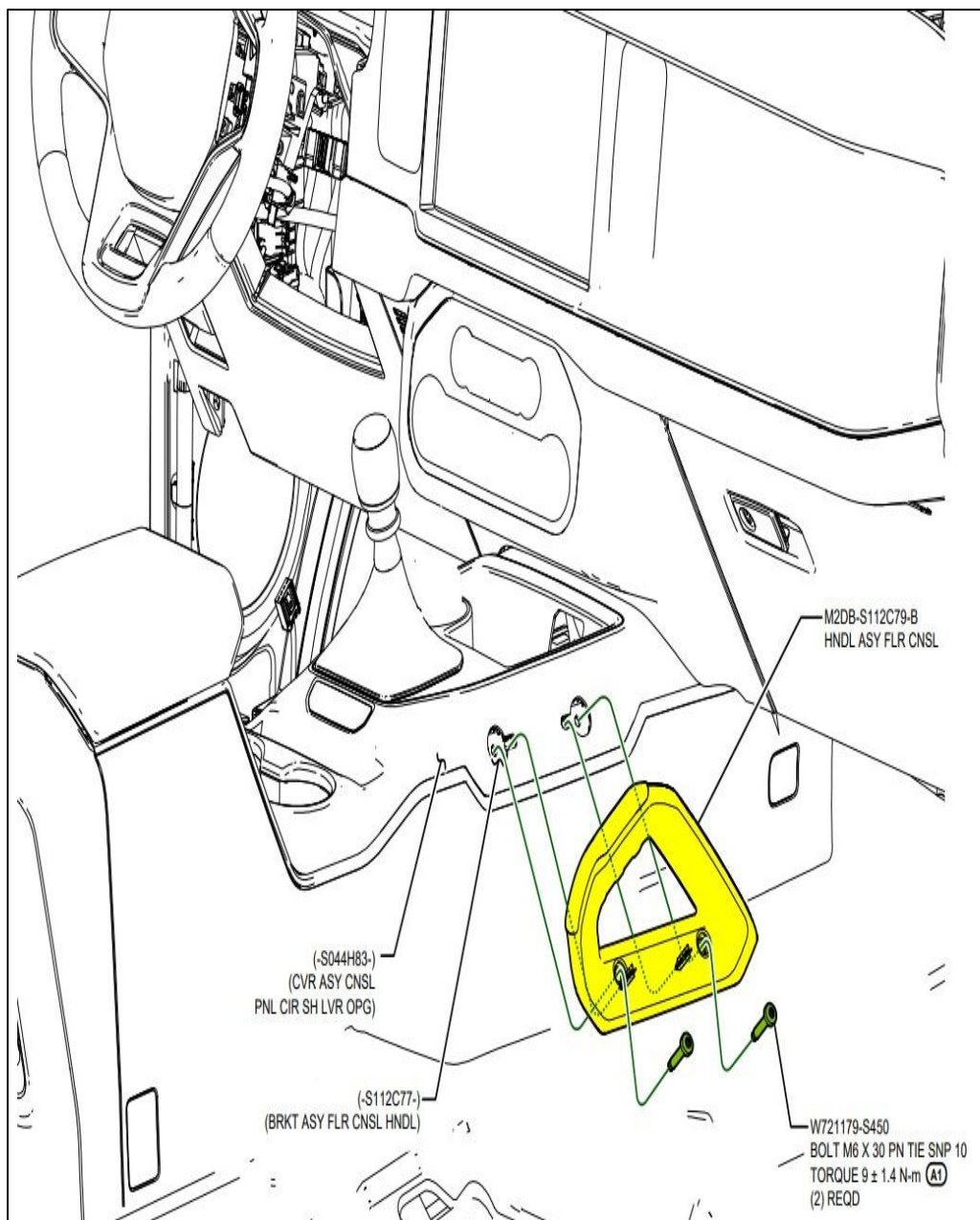


**WARNING:**

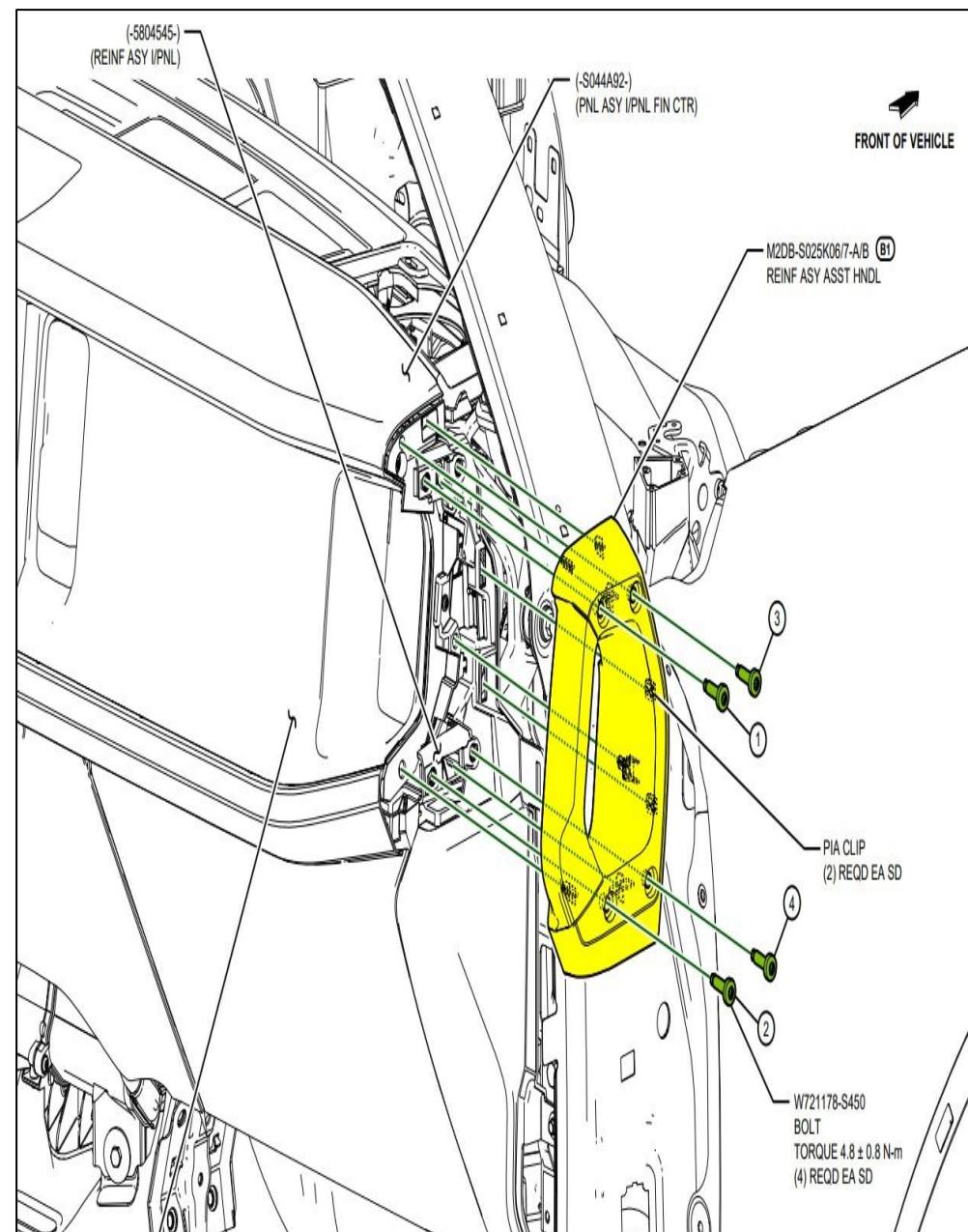
Obstruction of the rear view camera Field of View may result in vehicle non-compliance of FMVSS 111 Rear Visibility Standard



BRONCO INTERIOR



Console Grab Handle

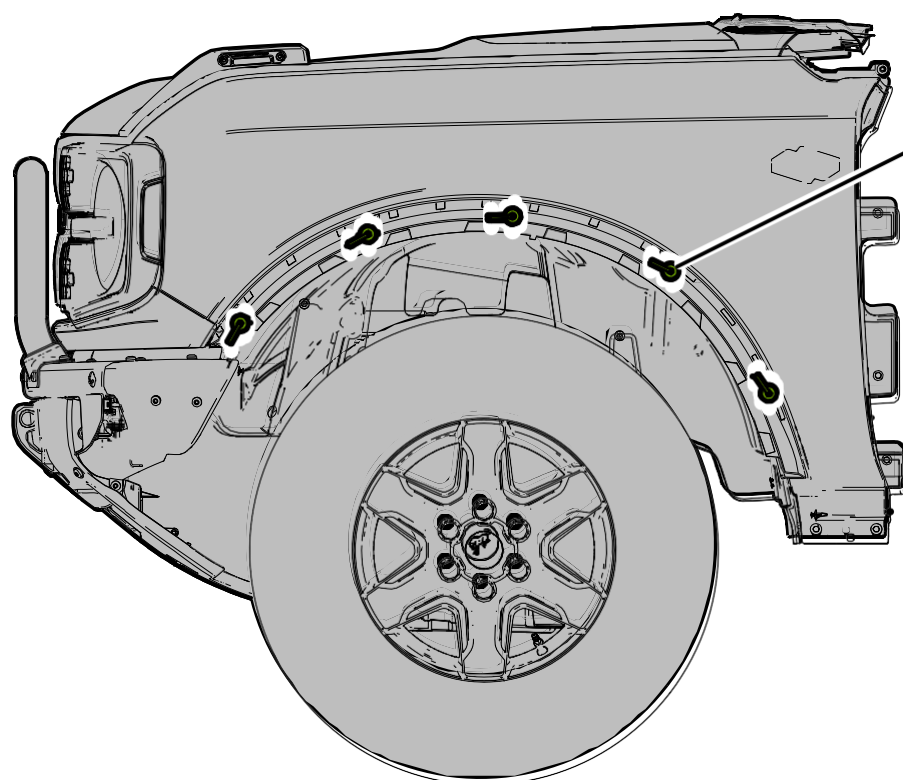


IP Grab Handle

BRONCO

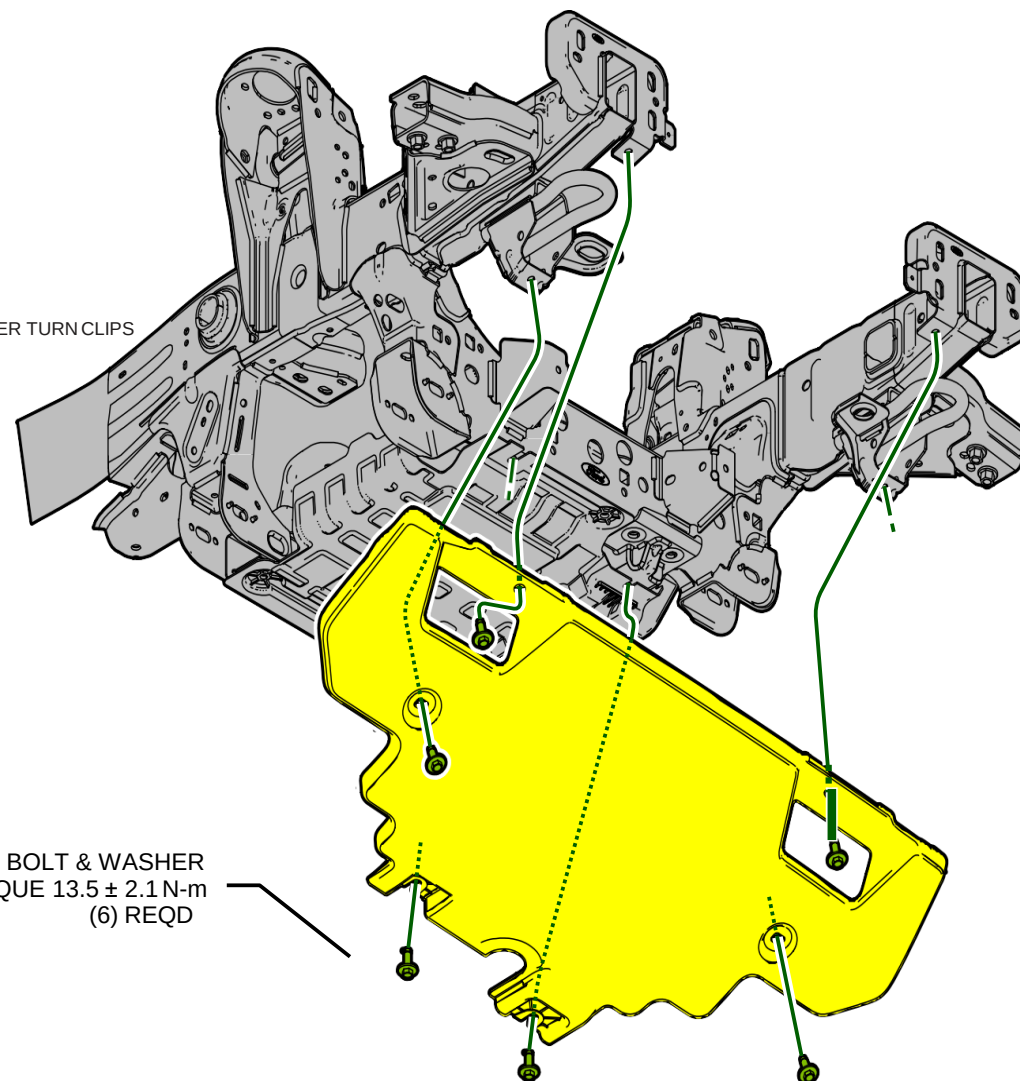
BODY MOUNTING POINTS

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



FIVE QUARTER TURN CLIPS

BOLT & WASHER
TORQUE 13.5 ± 2.1 N-m
(6) REQD



BRONCO

BODY MOUNTING POINTS

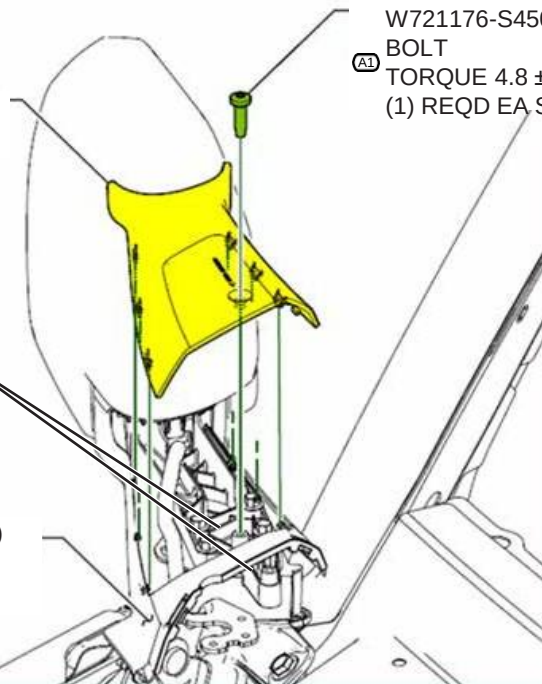
M2DB-17E730/1-A
COVER REAR VIEW
OUTSIDE MIRROR REAR

W721176-S450B
BOLT
(A1)
TORQUE 4.8 ± 0.8 N-m
(1) REQD EA SD

IF DEVELOPING AN ACCESSORY, IT IS
RECOMMENDED TO KEEP A LOW
PROFILE AND SPREAD THE BOLT
CLAMP LOAD ACROSS BOTH
EXPOSED FASTENERS

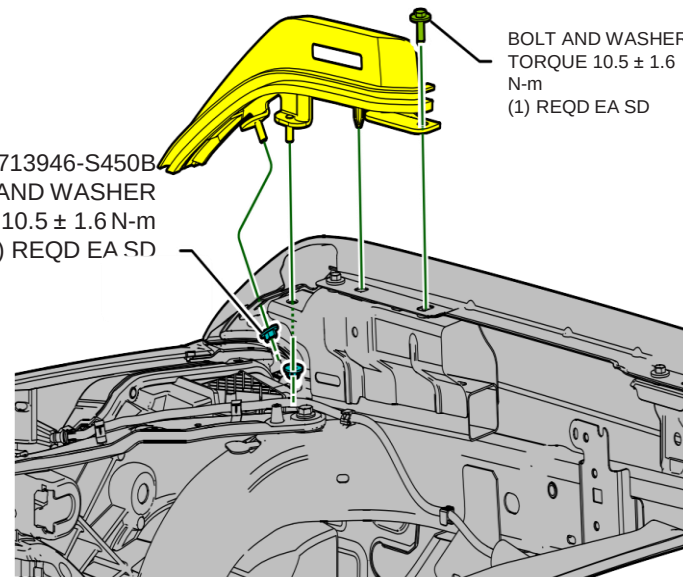
MAX WEIGHT= 400G

(-17682/3-)
(MIRROR ASSEMBLY
REAR VIEW OUTSIDE)



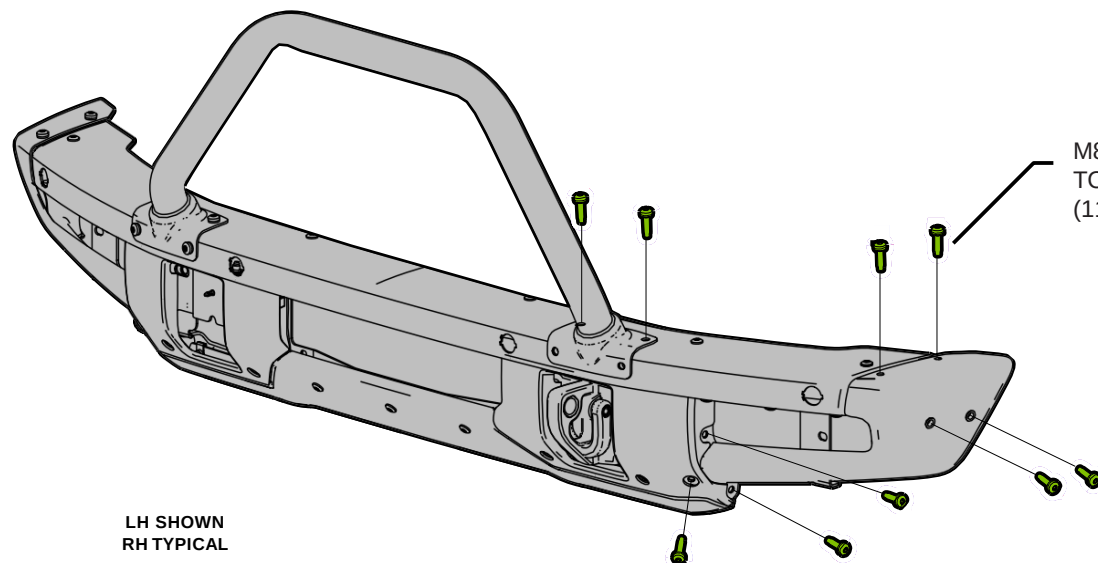
W713946-S450B
NUT AND WASHER
TORQUE 10.5 ± 1.6 N-m
(2) REQD EA SD

BOLT AND WASHER
TORQUE 10.5 ± 1.6
N-m
(1) REQD EA SD



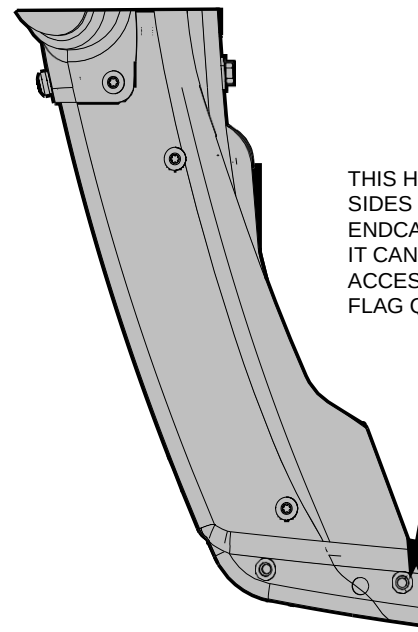
RH SHOWN
LH TYPICAL

M8 BOLT
TORQUE 22 ± 3 Nm
(11) REQD EA SD



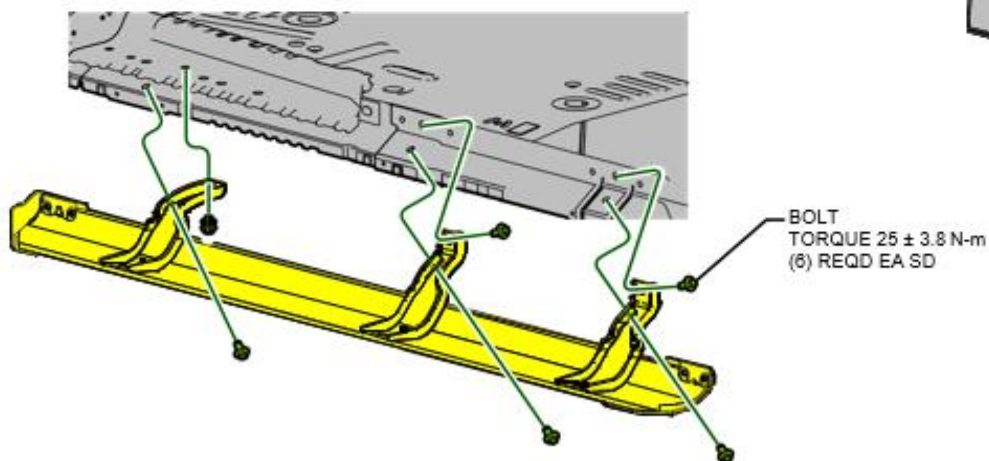
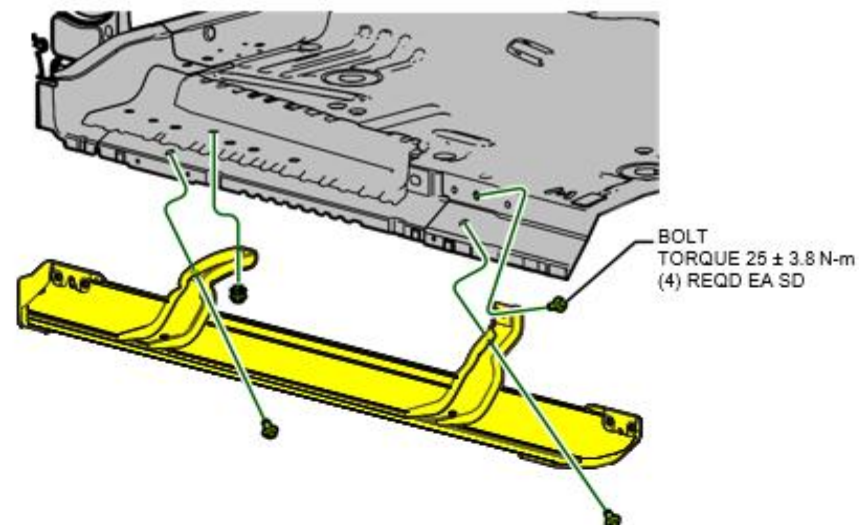
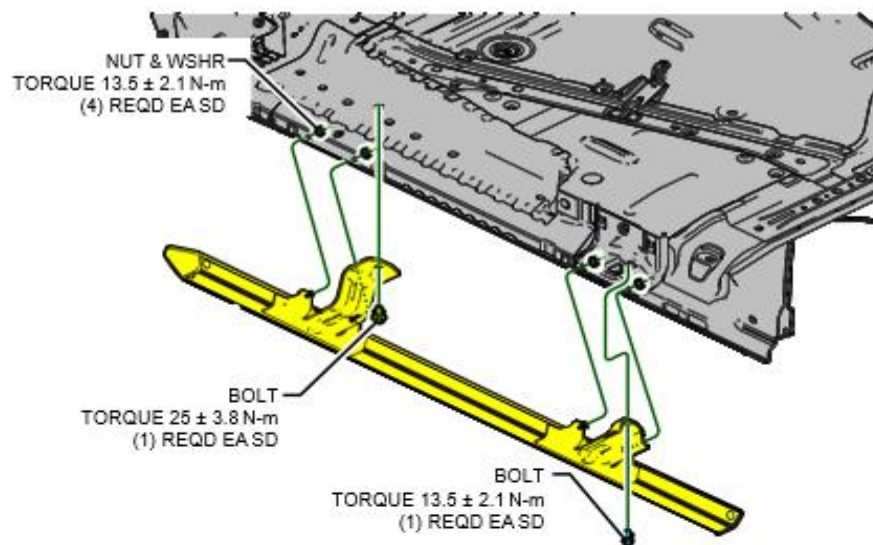
LH SHOWN
RH TYPICAL

THIS HOLE IS PRESENT ON BOTH
SIDES OF THE VEHICLE WHEN THE
ENDCAPS ARE REMOVED.
IT CAN BE USED TO INSTALL
ACCESSORIES SUCH AS A DUNE
FLAG QUICK-DISCONNECT

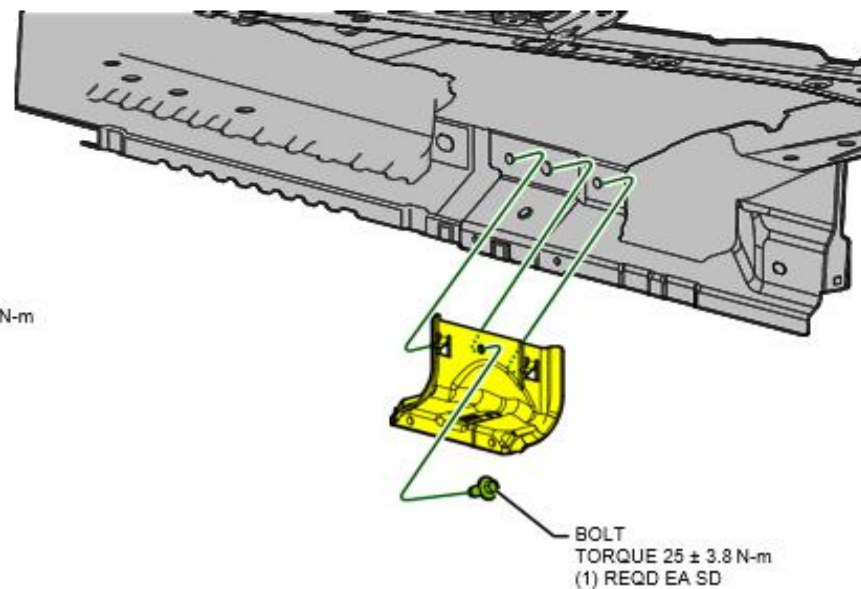


BRONCO

BODY MOUNTING POINTS



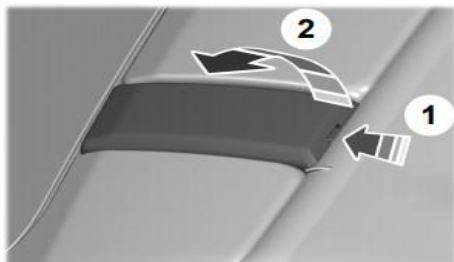
RH SHOWN
LH TYPICAL



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.



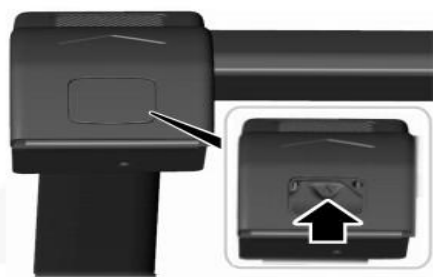
4. Position the roof rack on the vehicle.
5. Hand start the front roof rack fasteners.
6. Using the provided T30 tool, tighten the front roof rack fasteners. Torque bolts to 7.7 lb.ft (10.5 Nm)
7. Align the cover with the alignment slot and rotate rearward.
8. Hand start the front roof rack cover fasteners.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

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.



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.

DOOR HINGEBOLTS



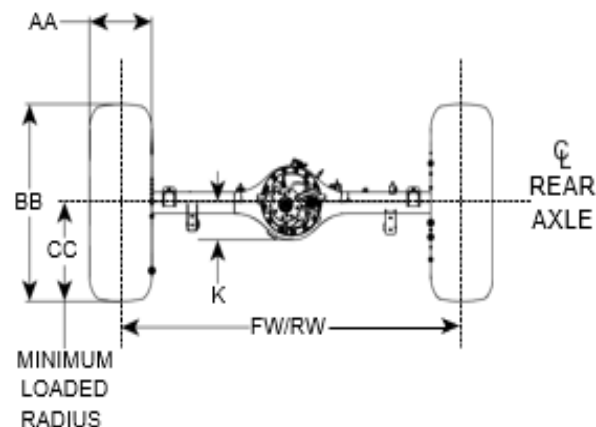
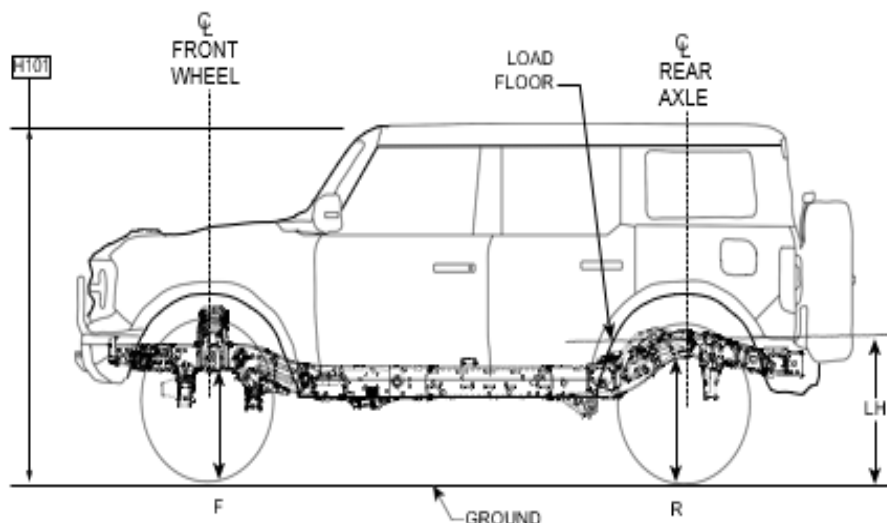
BOLT
TORQUE $30 \pm X.X$ N-m
(6) REQD

Maximum Recommended Door Weights

<u>3 Door</u>	<u>5 Door</u>	<u>Tailgate</u>
62lbs Front	55lbs Front	133lbs
	44lbs Rear	

BRONCO

AXLE / TIRE / VEHICLE HEIGHT DATA



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	5540	P255/70R16	441 [17.4]	409 [16.1]	556 [21.9]	483 [19.0]	756 [29.8]	683 [26.9]	1827 [71.9]	1754 [69.0]	138 [5.4]	255 [10.0]	764 [30.1]	364 [14.3]	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	5540	P255/70R16	440 [17.3]	404 [15.9]	556 [21.9]	485 [19.1]	763 [23.0]	692 [27.2]	Soft Top 1854 [73.0] Hard Top 1828 [71.9]	Soft Top 1786 [70.3] Hard Top 1762 [69.3]	138 [5.4]	255 [10.0]	764 [30.1]	363 [14.3]	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



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		



Tire Specifications

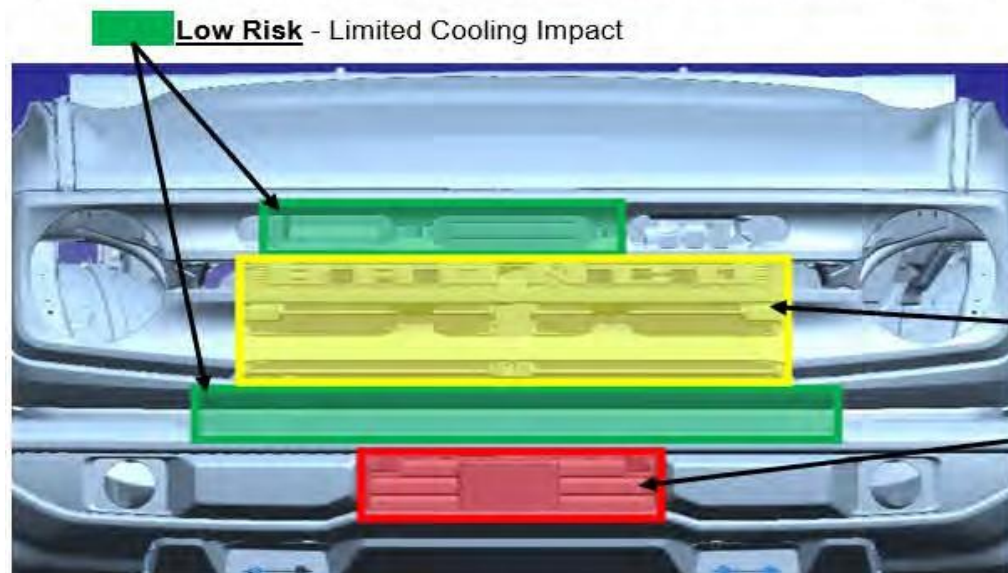
Size	Rim Width (in)	Section Width (in)	Static Load Radius (in)
255/75R17 A/T	7.5	262.6	362
255/70/R18 A /T	7.5	257.8	365
LT265/70R17 A/T	7.5	270.6	400
LT285/70R17 A/T	8	280	388
LT285/70R17 M/T	8	292	386
LT315/70R17 M/T	8.5	320	404

Wheel Specifications

Wheel Type	Wheel size (in.)	Wheel Offset (in./mm)	Bolt Circle (in/mm)	No. of Studs
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

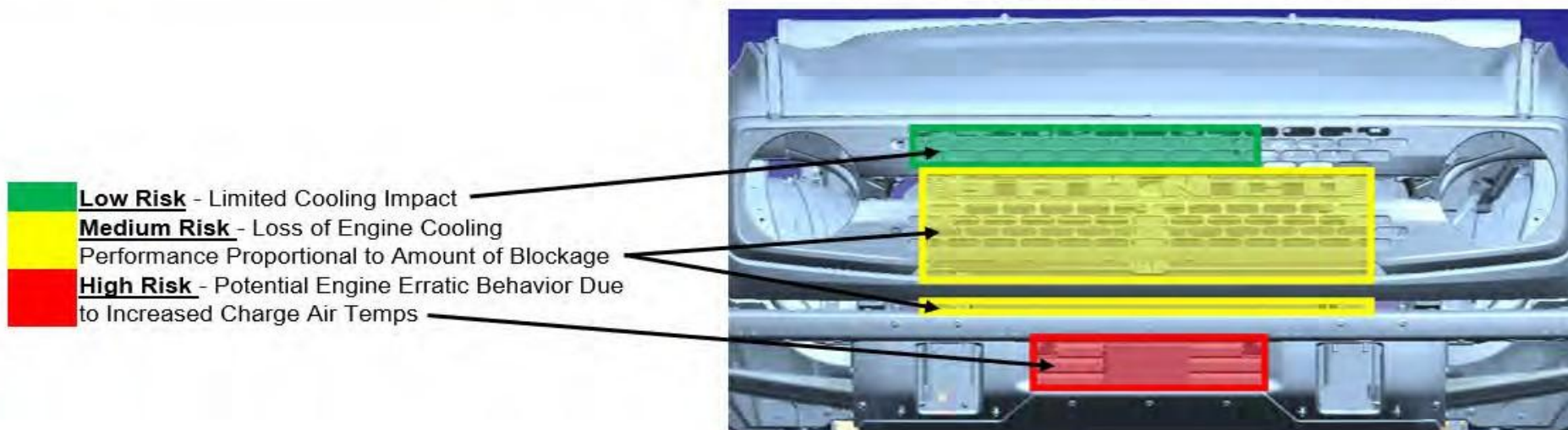


Low Risk - Limited Cooling Impact

Medium Risk - Loss of Engine Cooling
Performance Proportional to Amount of Blockage

High Risk - Potential Engine Erratic Behavior Due
to Increased Charge Air Temps

Badlands, Wildtrak, First Edition Series



Low Risk - Limited Cooling Impact

Medium Risk - Loss of Engine Cooling
Performance Proportional to Amount of Blockage

High Risk - Potential Engine Erratic Behavior Due
to Increased Charge Air Temps



The Bronco is available with an Auxiliary 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

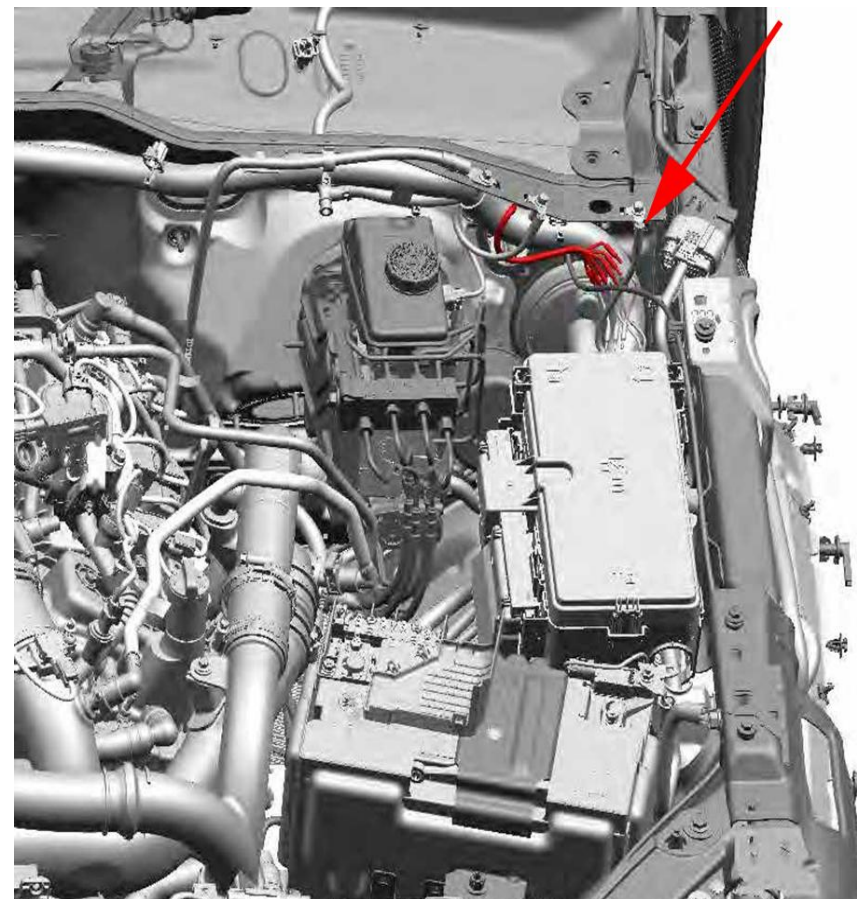
Switch Assignment	Wire Color	Wire Size	Fuse Size
AUX 1	Yellow	1.5 mm ²	30A
AUX 2	Green/Brown	1.5 mm ²	15A
AUX 3	Violet/Green	0.75 mm ²	10A
AUX 4	Brown	0.75 mm ²	10A
AUX 5	Blue/Orange	0.75 mm ²	10A
AUX 6	Yellow/Orange	0.75 mm ²	10A

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





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 terminals being installed is 2.5 mm
- The two 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- in the location shown.

- If grounding to the body - Do not use existing vehicle ground points, new ground location(s) must be established.

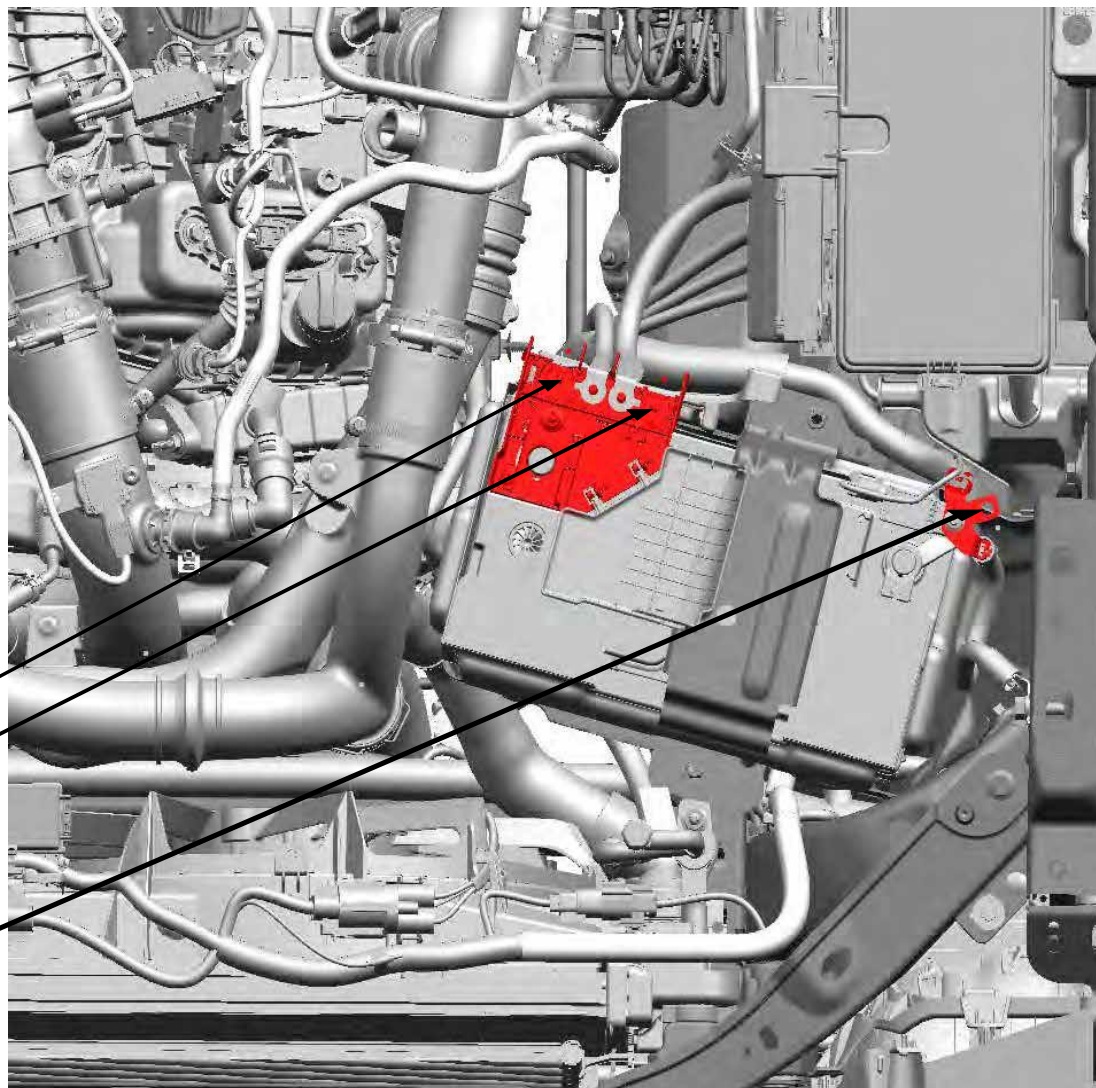
Locations for B+connection

M5 Nut, torque to 5.4 +/- 0.9 Nm

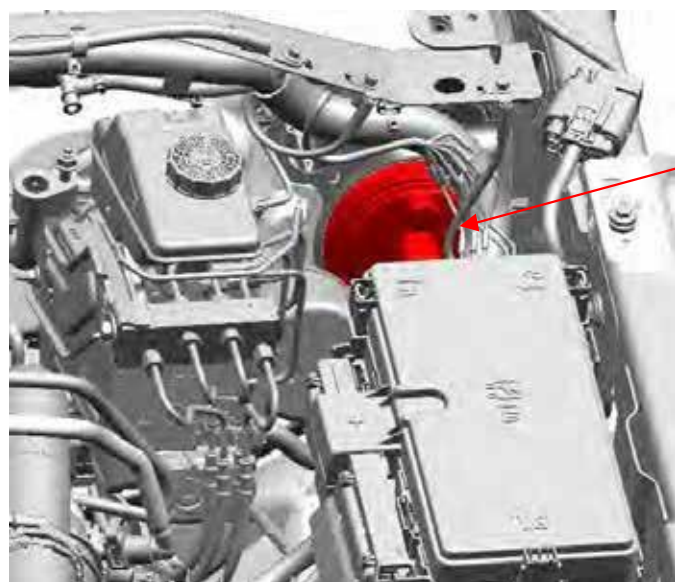
M6 Nut, torque to 10 +/- 1.5 Nm

Max eyelet diameter: 18 mm

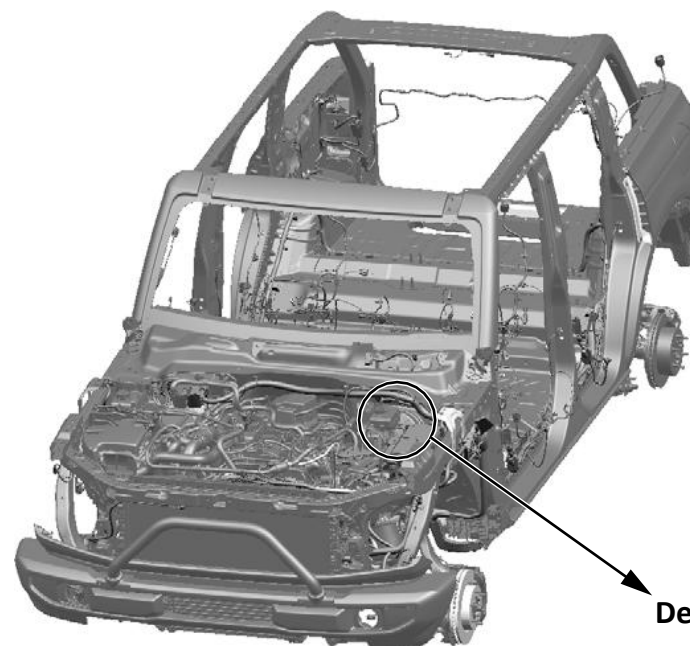
Location for B- connection
8.5 mm diameter hole



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).

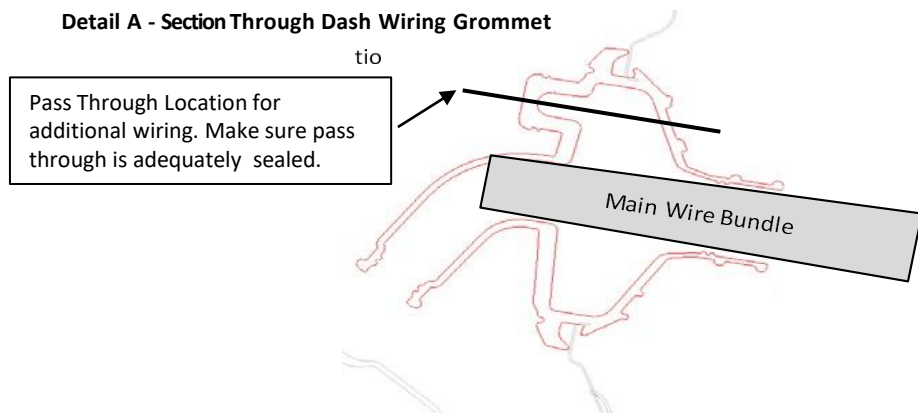


Dash Wire
Grommet

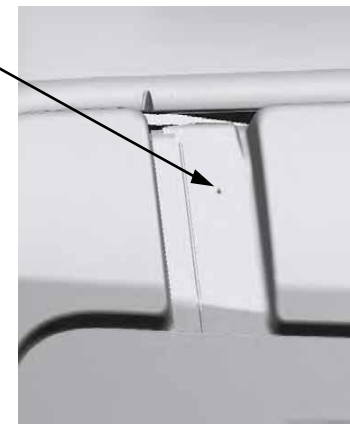


Detail A

Detail A - Section Through Dash Wiring Grommet

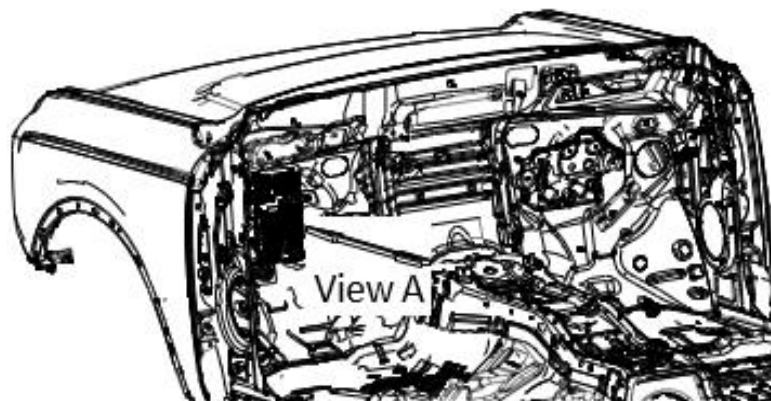


Remove RH Roof Ditch Molding and Molding Retainer. Use the dimple provided in the sheet metal as a drill start point, drilling perpendicular to the exterior sheet metal surface. MAX DRILL SIZE is 7/16 diameter. Make sure pass through is adequately sealed. When re-installing the molding retainer, torque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



Delayed Accessory

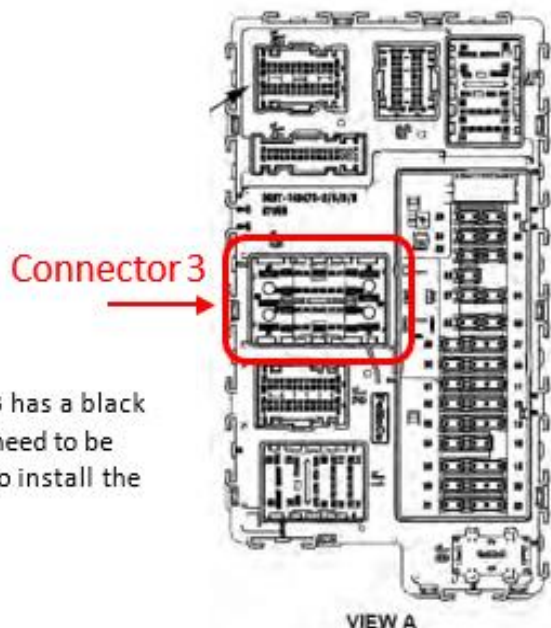
When installing auxiliary equipment that is active with delayed accessory, a BCM feed can be used to directly power added circuit(s) not exceeding 30A consumption. Install a female terminal kit (DU2Z-14474-JA) into the open location in BCM Connector 3, Pin 36 to start the circuit(s). This BCM output 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

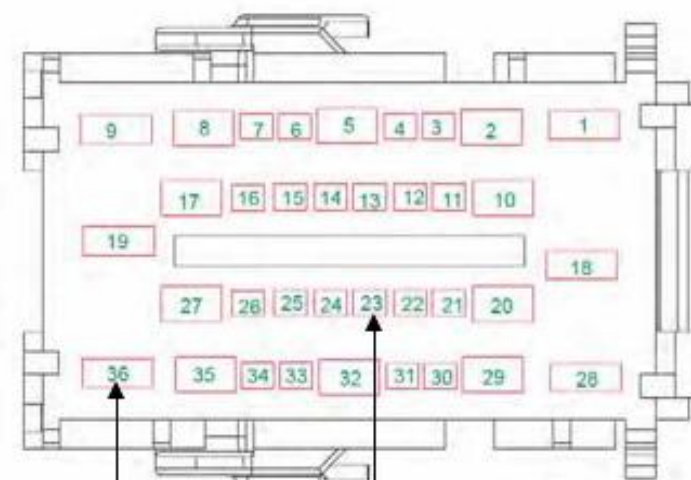
When installing auxiliary equipment that is active with Run / Start condition, a relay connected to B+ must be installed. That relay can then be driven by a run / start feed from the BCM. Install a female terminal kit (DU2Z-14474-DA) into the open location in BCM Connector 3, Pin 23. The terminal kit 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



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

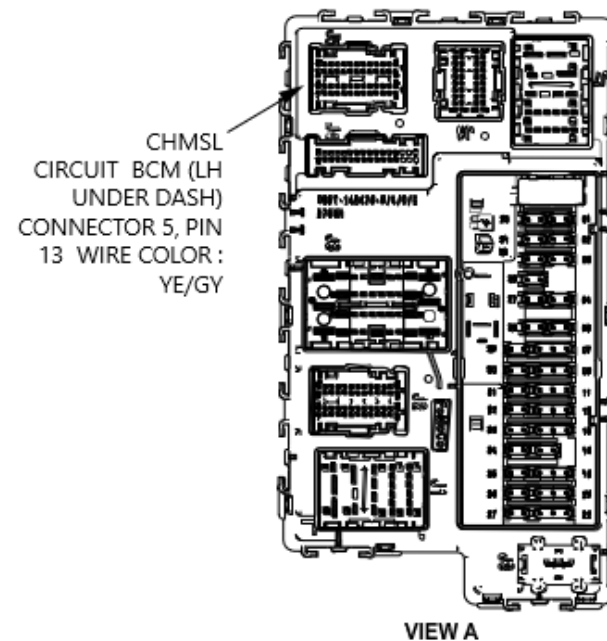
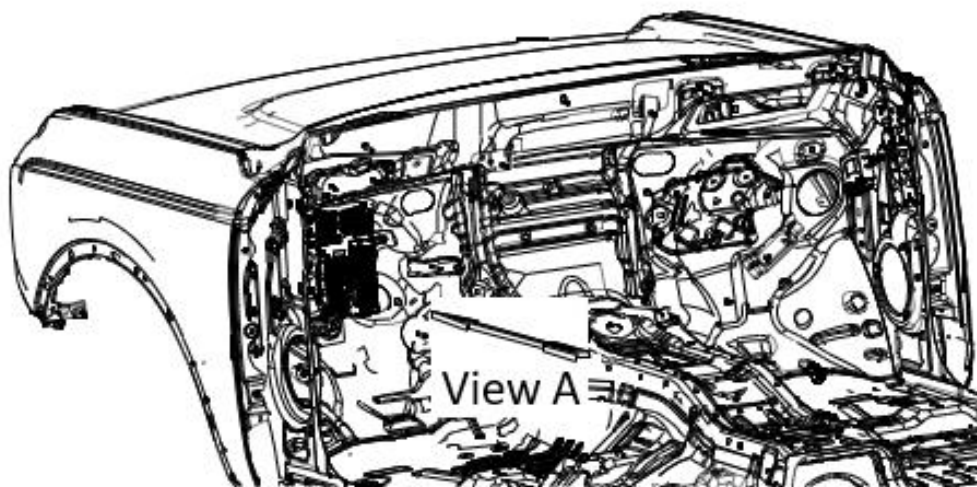
CHMSL CIRCUIT

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 auxillary CHMSL exceeds the reserve capacity, the factory CHMSL must be disconnected
- (3)- Continuous 12V



**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.

Notes**Headlamp Pinout**

Mating Connector : 10 way male – Molex 33482-1601

Function (4)	Pin #	Wire Color	Circuit Type	Max Current (2)
Low Beam	1		Non-PWM	4.2A
Turn	2		Non-PWM	2.2A
Turn Lamp outage	4		N/A	N/A
Lin Network	5		Network	N?A
Daytime running lights	7		Non-PWM	2.3A
High Beam	8		Non-PWM	20A Fused
Park	9		Non-PWM	1.0A
Ground	10		N/A	N/A

Tail Lamp Connector

