

**2021 FORD BRONCO**EQUIPMENT INSTALLATION GUIDE

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BRONCO

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ADDED CIRCUITS		During the production and servicing of these vehicles, due care should be taken to avoid damaging of safety
ADDED CIRCUITS (Con't)		or emissions related systems such as the braking
WIRING PASS THROUGH LOCATIONS		system, fuel lines, sensors, catalysts, etc. through contacting them while working on adjacent areas of
CHMSLCIRCUIT	22	the vehicle. Inadvertent damage can also occur due to adjacent welding/cutting operations, people
HEAD ANDTAIL LAMPS	23	standing near/on unprotected systems while performing other tasks.
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**BRONCO** 

### 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
  - Crash sensors
  - 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: <a href="https://www.motorcraftservice.com">www.motorcraftservice.com</a>

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 MODEL LINEUP - 2 DOOR

2021 MODEL YEAR

Body					GVWR	Max Payload	Max ARC (Ibs) (3)	Max GA (Ibs)	WR	l	Curb W	-
Style	Engine	Trans	4x4	Series	(1)	(lbs) (2)	Total	Front	<u> </u>	Front	Rear	Total
	Liigiiio	114110	IX I	Base	5540	1170	634	2900	3000	2338	1981	4319
		l., .	ESOF	Big Bend	5540	1160	623	2900	3000	2344	1985	4329
		Manual MT88		Black Diamond	5640	1020	433	2900	3000	2437	2134	4571
			БМТО	Black Diamond	5640	1000	411	2900	3000	2452	2141	4593
			EMTC	Badlands	5720	970	328	2900	3000	2535	2164	4699
				Base	5540	1150	614	2900	3000	2352	1987	4339
	2.3L		F00F	Big Bend	5540	1140	603	2900	3000	2358	1991	4349
	GTDi		ESOF	Outer Banks	5540	1060	514	2900	3000	2400	2035	4435
		A		Black Diamond	5640	1000	413	2900	3000	2451	2140	4591
	Auto	10R60		Base	5620	980	445	2900	3000	2471	2123	4594
		1000	EMTC	Big Bend	5620	970	439	2900	3000	2474	2124	4598
				Outer Banks	5620	1090	558	2900	3000	2415	2069	4484
2 Door				Black Diamond	5660	1000	406	2900	3000	2466	2147	4613
100.4" WB				Badlands	5720	950	308	2900	3000	2549	2170	4719
100.4 WB				Base	5700	1160	622	3000	3000	2493	1998	4491
				Big Bend	5700	1150	611	3000	3000	2499	2002	4501
			ESOF	Outer Banks	5700	1060	522	3000	3000	2542	2046	4588
				Wildtrak	5740	1060	553	3000	3000	2545	2089	4634
				Black Diamond	5780	980	401	3000	3000	2592	2151	4743
	2.7L	Auto		Base	5760	960	433	3000	3000	2613	2134	4747
	GTDi			Big Bend	5760	960	427	3000	3000	2616	2135	4751
				Outer Banks	5760	1070	546	3000	3000	2556	2080	4636
		EMTC	Wildtrak	5820	940	451	3000	3000	2641	2182	4823	
				Black Diamond	5800	980	399	3000	3000	2607	2158	4765
				Badlands	5860	940	363	3000	3000	2690	2181	4871
				Launch Edition	5860	740	243	3000	3000	2799	2269	5068

#### 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

### BRONCO MODEL LINEUP - 4 DOOR

2021 MODEL YEAR

Body Style	Engine	Trans	4x4	Series	GVWR (lbs)	Max Payload (lbs) (2)	Max ARC (lbs) (3) Total	1		l	Curb W Ibs) (5 Rear	٠ ا
,				Big Bend	5920	1370	683	3090	3070	2495	2004	4499
		Manual	ESOF	Black Diamond	6020	1160	425	3170	3070	2638	2169	4807
		MT88		Black Diamond	6020	1140	403	3170	3070	2690	2140	4830
			EMTC	Badlands	6100	1110	385	3170	3070	2735	2202	4937
				Base	5920	1360	674	3090	3070	2509	2000	4509
	0.01		ESOF	Big Bend	5920	1350	663	3090	3070	2515	2004	4519
	2.3L GTDi		ESOF	Outer Banks	5920	1260	570	3090	3070	2560	2050	4610
	GIDI	١.,.		Black Diamond	6040	1160	425	3170	3070	2658	2169	4827
		Auto 10R60		Base	5980	1160	485	3090	3070	2628	2136	4764
		10860	100	Big Bend	5980	1160	479	3090	3070	2632	2137	4769
			EMTC	Outer Banks	5980	1270	594	3090	3070	2575	2083	4658
				Black Diamond	6040	1140	403	3170	3070	2673	2177	4850
4 Door				Badlands	6120	1110	370	3170	3070	2755	2202	4957
116.1" WB				Base	6060	1350	662	3220	3070	2638	2023	4661
				Big Bend	6060	1340	651	3220	3070	2644	2027	4671
			ESOF	Outer Banks	6060	1250	558	3220	3070	2689	2073	4762
				Wildtrak	6080	1220	558	3220	3070	2694	2116	4810
				Black Diamond	6120	1090	353	3270	3070	2787	2192	4979
	2.7L	Auto		Base	6100	1130	453	3220	3070	2758	2159	4917
	GTDi	10R60		Big Bend	6100	1120	447	3220	3070	2761	2160	4921
				Outer Banks	6100	1240	562	3220	3070	2704	2106	4810
			EMTC	Wildtrak	6160	1110	456	3220	3070	2789	2211	5000
				Black Diamond	6180	1120	391	3270	3070	2802	2200	5002
				Badlands	6180	1010	293	3270	3070	2884	2225	5109
				Launch Edition	6180	810	155	3270	3070	2999	2318	5317

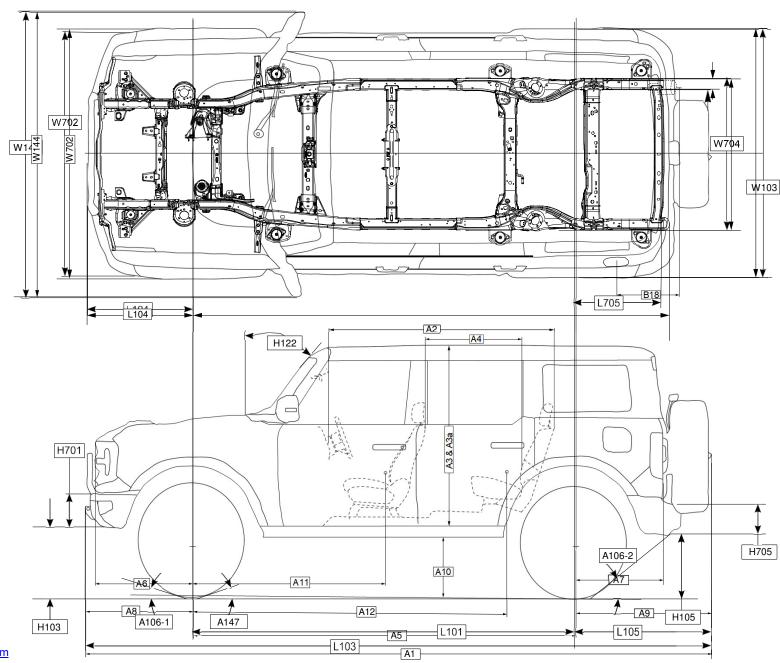
#### Notes:

- (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 DIMENSIONAL DATA - 2 DOOR / 4 DOOR



BRONCO

# BRONCO DIMENSIONAL DATA - 2 DOOR / 4 DOOR CONT'D

2021
MODEL YEAR

SOTTOM OF FRONT   BUMPER TO GROUND @ [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [14.8]   [18.2]   [19.3]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]   [17.1]   [18.9]   [20.4]				2 DOOR			4 DOOR	
BOTTOM OF FRONT CURB (14.8) [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [14.8] [18.2] [19.3] [14.8] [14.8] [18.2] [19.3] [14.8] [14.8] [18.2] [19.3] [19.0] [1	CODE	DESRIPTION	Base	Badlands	Sasquatch	Base	Badlands	Sasquatch
BUMPER TO GROUND © CURB [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [14.8] [18.2] [19.3] [17.1] [18.9] [20.4] [20.4]			30" Tire	33" Tire	35" Tire	30" Tire	33" Tire	35" Tire
TO GROUND @ CURB [17.1] [19.0] [20.4] [17.1] [18.9] [20.4]  APPROACH ANGLE @ CURB (DEGREES)  DEPARTURE ANGLE @ CURB (DEGREES)  CURB (DEGREES)  CURB (DEGREES)  29.8 34.1 37.2 29.7 34.0 37.0 37.0 (TO REAR BUMPER - TOW HOOKS)  (TO REAR BUMPER - TOW HOOKS)  TOW HOOKS REMOVED)  ANGLE @ CURB (DEGREES)  WHEELBASE  2550 [100.4]  VEHICLE LENGTH [173.7] [174.8] [173.7] [189.4] [190.5] [189.5] (189.5] (TO SPARE TIRE CARRIER)  FRONT OVERHANG (NO 794 822 783 794 8322 783 (16.8) [190.5] [189.5] (TO SPARE TIRE CARRIER) [42.0] [30.8] [30	H103	BUMPER TO GROUND@			1		1	491 [19.3]
DEPARTURE ANGLE @ CURB (DEGREES)   29.8   34.1   37.2   29.7   34.0   37.0	H105			1	1		1	518 [20.4]
CURB (DEGREES) (TO REAR TOW HOOKS)  (TO REAR TOW HOOKS)  (TO REAR BUMPER - TOW HOOKS REMOVED) (TO REAR BUMPER BEAKOVER ANGLE@ CURB (DEGREES)  (TO REAR BUMPER   21.1   25.9   29.0   20   23.6   26.3    WHEELBASE   2550 [100.4]   2950 [116.1]  VEHICLE LENGTH   4411   4439   4413   [189.4]   [190.5]   [189.5]    FRONT OVERHANG (NO	A106-1	1	35.5	40.4	43.2	35.5	40.3	43.2
TOW HOOKS REMOVED)  TOW HOOKS REMOVED)  RAMP BREAKOVER ANGLE@ CURB (DEGREES)  WHEELBASE  2550 [100.4]  VEHICLE LENGTH  [173.7]  FRONT OVERHANG (NO 794 822 783 794 822 783 [189.4] [190.5]  REAR OVERHANG (1067 1067 1080 1067 1067 1080 (105 PARE TIRE CARRIER) [42.0] [42.0] [42.5]  (TO REAR BUMPER)  C/L OF REAR AXLE TO REAR END OF FRAME  WINDSHIELD ANGLE (DEGREES)  TRONT BUMPER HEIGHT  TRONT BUMPER HEIGHT  TO REAR	A106-2	CURB (DEGREES)	29.8	34.1	37.2	29.7	34.0	37.0
ANGLE@ CURB (DEGREES)   21.1   25.9   29.0   20   23.6   26.3     WHEELBASE   2550 [100.4]   2950 [116.1]     VEHICLE LENGTH   4411   4439   4413   4811   4839   4813     FRONT OVERHANG (NO   794   822   783   794   822   783     LICENSE PLATE BRACKET)   [31.3]   [32.4]   [30.8]   [31.3]   [32.4]   [30.8]     REAR OVERHANG (TO SPARE TIRE CARRIER)   [42.0]   [42.0]   [42.5]   [42.0]   [42.5]     (TO REAR BUMPER)   833   818   818   833   818   818     (TO REAR AXLE TO REAR END OF FRAME   717 [28.2]   717 [28.2]     WINDSHIELD ANGLE (DEGREES)   39.6   39.6     FRONT BUMPER HEIGHT   10.4]   [10.4]   [10.7]   [11.9]   [10.4]   [10.7]     REAR BUMPER HEIGHT   1928   1937   2015   1928   1937   2015     (MAX W/O MIRRORS)   75.9]   76.3]   [29.3]   75.9]   76.3]   [29.3]     VEHICLE WIDTH (MAX W/ STANDARD MIRRORS)   2189 [86.2]   2189 [86.2]     FRONT BUMPER WIDTH   1873   1874   1872   1873   1874   1872   1873   1874   1872   173.7]   73.7			34.3	38.6	41.6	34.2	38.5	41.4
VEHICLE LENGTH	A147		21.1	25.9	29.0	20	23.6	26.3
VEHICLE LENGTH	L101	WHEELBASE	<u> </u>	2550 [100.4]			2950 [116.1]	
LICENSE PLATE BRACKET  [31.3] [32.4] [30.8] [31.3] [32.4] [30.8]   REAR OVERHANG   1067   1067   1080   1067   1067   1080   1067   1067   1080   1067   1067   1080   1067   1067   1080   1067   1067   1080   1067   1067   1080   1067   1067   1080   1080   1067   1080   1	L103	VEHICLE LENGTH			-	_		4813 [189.5]
(TO SPARE TIRE CARRIER) [42.0] [42.0] [42.5] [42.0] [42.0] [42.5] (TO REAR BUMPER) [333 818 818 833 818 818 [32.2]	L104						1	783 [30.8]
TO REAR BUMPER    S33   S18   Subject   S18   Subject   S18   Subject   S18   S18   S18   Subject   S18   Subjec		1		l .				1080 [42.5]
C/L OF REAR AXLE TO REAR END OF FRAME   717 [28.2]   717 [28.2]   717 [28.2]	L105	(TO REAR BUMPER)						
TRONT BUMPER HEIGHT	L705			717 [28.2]			717 [28.2]	
FRONT BUMPER HEIGHT [11.9] [10.4] [10.7] [11.9] [10.4] [10.7]  REAR BUMPER HEIGHT [256 258 258 256 258 258 258 [10.1] [10.2] [10.2] [10.2] [10.1] [10.2] [10.2]  VEHICLE WIDTH 1928 1937 2015 1928 1937 2015 [76.3] [29.3]  VEHICLE WIDTH (MAX W/STANDARD MIRRORS) 2189 [86.2] 2189 [86.2]  FRONT BUMPER WIDTH 1873 1874 1872 1873 1874 1872 22 FRONT BUMPER WIDTH [73.7] [73.8] [73.7] [73.8] [73.7]	H122			39.6			39.6	
REAR BUMPER HEIGHT [10.1] [10.2] [10.2] [10.1] [10.2] [10.2]  VEHICLE WIDTH 1928 1937 2015 1928 1937 2015 [76.3] [29.3] [76.3] [29.3]  VEHICLE WIDTH (MAX W/ STANDARD MIRRORS) 2189 [86.2]	H701	FRONT BUMPER HEIGHT		_	1		-	271 [10.7]
MAX W/O MIRRORS  [75.9] [76.3] [29.3] [75.9] [76.3] [29.3]	H705	REAR BUMPER HEIGHT						258 [10.2]
STANDARD MIRRORS)  2189 [86.2]  2189 [86.2]  2189 [86.2]  2FRONT BUMPER WIDTH  1873	W103	-						2015 [29.3]
2 FRONT BUMPER WIDTH [73.7] [73.8] [73.7] [73.7] [73.8] [73.7]	W144	` '		2189 [86.2]			2189 [86.2]	
4 REAR FRAME WIDTH 1170 [46.1] 1170 [46.1]	W702	FRONT BUMPER WIDTH		1	1		1	1872 [73.7]
	W704	REAR FRAME WIDTH		1170 [46.1]			1170 [46.1]	

DIMENSIONS SHOWN IN mm [in]



7

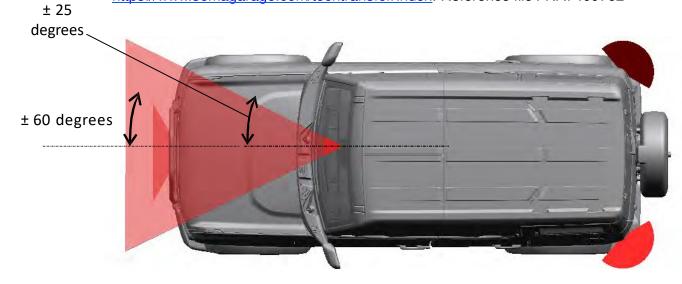
BRONCO

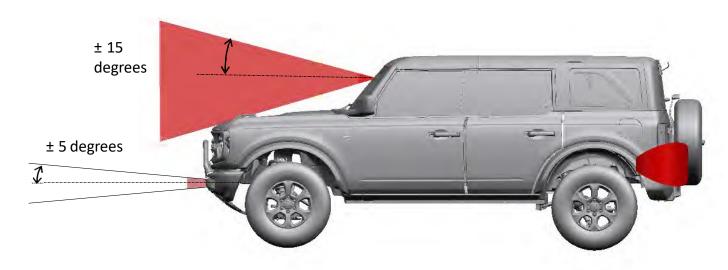
## BRONCO ADAS SENSOR FIELDS OF VIEW (KEEP OUT ZONES)

2021 MODEL YEAR

Installed equipment should <u>not</u> infringe on the sensor field of view zones.

CAD files for 3 and 5 door models are available upon request via SEMA Tech Transfer: <a href="https://www.semagarage.com/techtransfer/Index">https://www.semagarage.com/techtransfer/Index</a>. Reference file FNA7409762







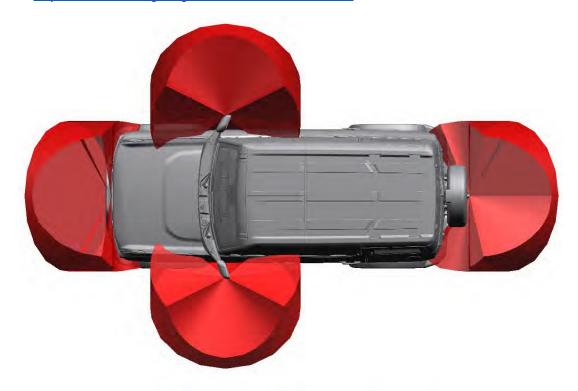
## BRONCO 360 DEGREE CAMERA FIELDS OF VIEW

2021 MODEL YEAR

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:

<a href="https://www.semagarage.com/techtransfer/Index">https://www.semagarage.com/techtransfer/Index</a>. Reference file FNA7677526



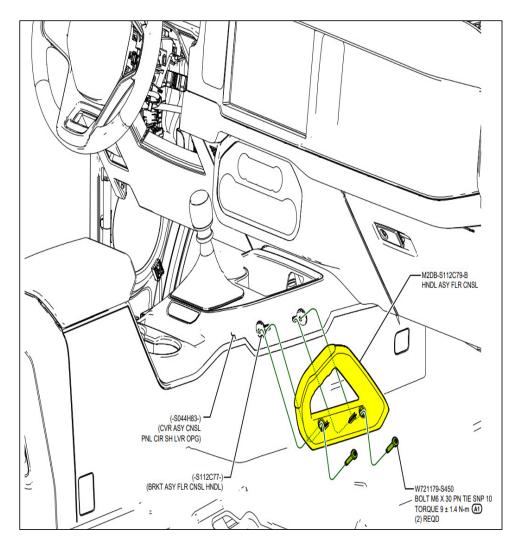
### **WARNING:**

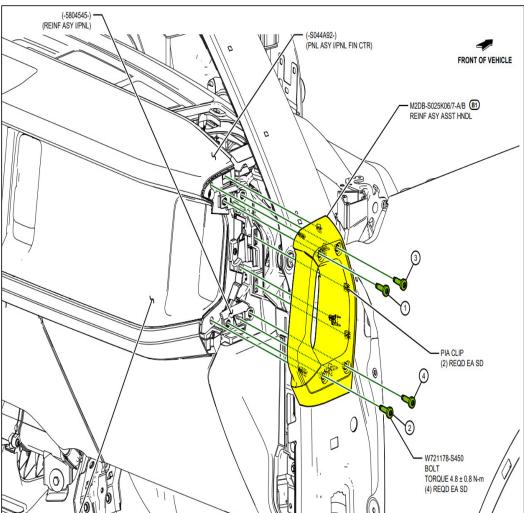
Obstruction of the rear view camera Field of View may result in vehicle non-compliance to FMVSS 111 Rear Visibility standard.



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BRONCO



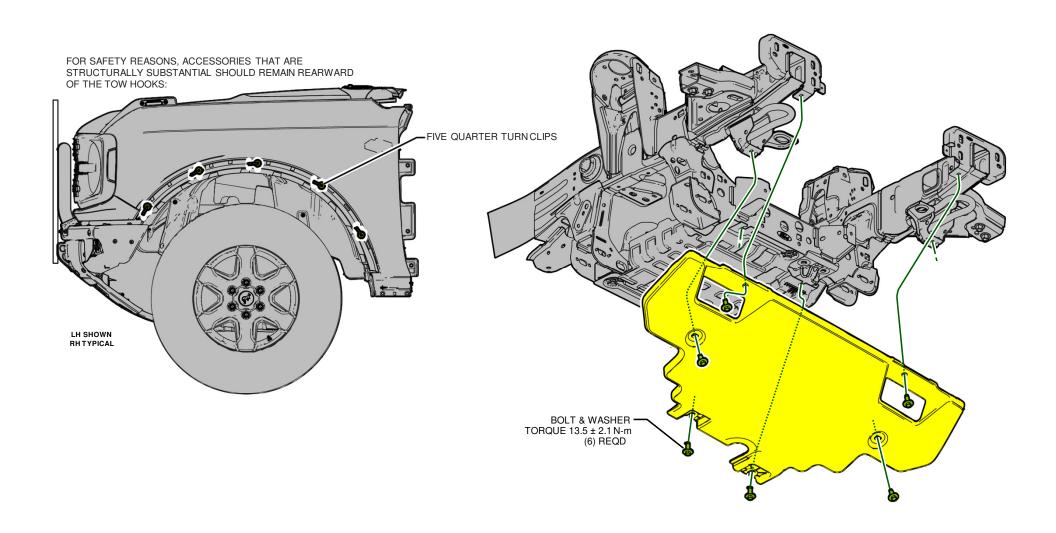


Console Grab Handle

IP Grab Handle

BRONCO

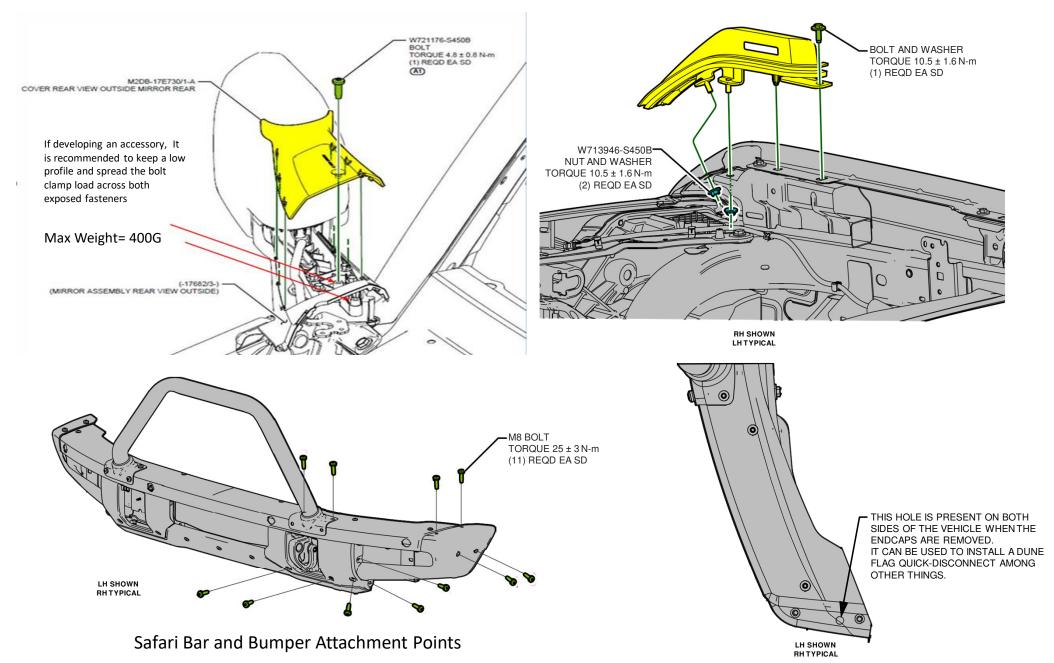
## BRONCO BODY MOUNTING POINTS





10 BRONCO

## BRONCO BRONCO BODY MOUNTING POINTS





11 BRONCO

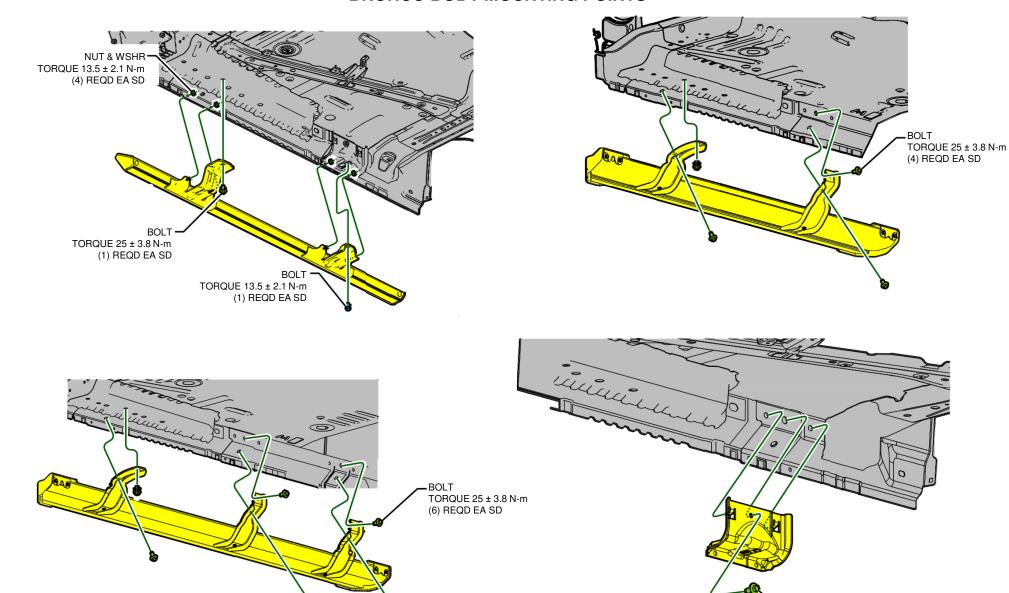
## BRONCO BRONCO BODY MOUNTING POINTS

2021 MODEL YEAR

- BOLT

TORQUE 25  $\pm$  3.8 N-m

(1) REQD EA SD



RH SHOWN

LH TYPICAL

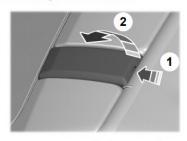
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**BRONCO** 

## BRONCO BRONCO BODY MOUNTING POINTS

2021 MODEL YEAR

#### **Installing the Roof Rack**



- 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)
- Align the cover with the alignment slot and rotate rearward.
- Hand start the front roof rack cover fasteners.
- 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.

Install the rear roof rack fastener
 Cover

### See Owners Manual for full instructions

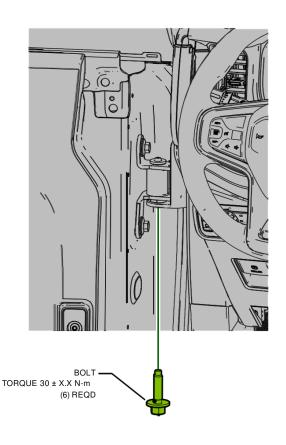
#### ROOF RACK LOAD CAPACITIES

#### **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**

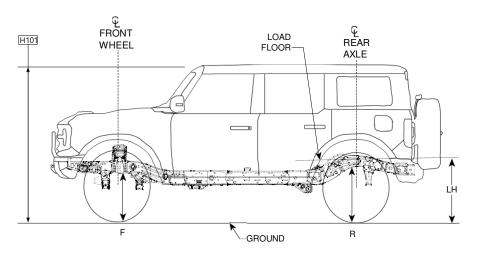
3 Door 62lbs Front 5 Door 55lbs Front Tailgate 133lbs

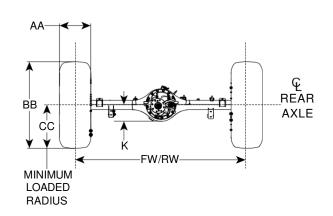
44lbs Rear



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### **BRONCO AXLE / TIRE / VEHICLE HEIGHT DATA**





	WB	GVWR		F Height @ I to Bottom mm	of Frame	R Height @ R Bottom o mm	f Frame	L	H [in]		101 ı [in]	к	AA	ВВ	cc	W102-1	W102-1
Model	inches	pounds	Tire	Height @ Base Curb Weight	Loaded Height@ Spring Rating	Height @ Base Curb Weight	Loaded Height@ Spring Rating	Empty	Loaded	Em pty	Loaded	mm [in]	mm [in]	mm [in]	mm [in]	FW mm [in]	RW mm [in]
2 Door Base		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	100.4	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		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	116.1	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]

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

<sup>(2)</sup> Vehicle ride heights are given at tire minimum loaded radius.

<sup>2-</sup>Door is Hard Top Only

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## BRONCO AXLE AND TRANSMISSION RATIOS

					Bro	nco Axle	Availability		_				
Final Drive	Front Differential	Rear Base Big Bend Black Diamond		iamond	Outer Banks	Wildtrak	Badl	ands	First Edition				
Ratio			Manual	Auto	Manual	Auto	Manual	Auto	Auto	Auto	Manual	Auto	Auto
3.73	Open	Open		S		S			S				
4.27	Open	Locking				0			0				
	Open	Open	S		S								
4.46	Open	Locking			0		S	S					
	Locking	Locking										S	
4.7	Locking	Locking		0		0		0	0	S	S	0	S

R	ronco Trans	mission R	atios				
108	P 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 Specif	cation	
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

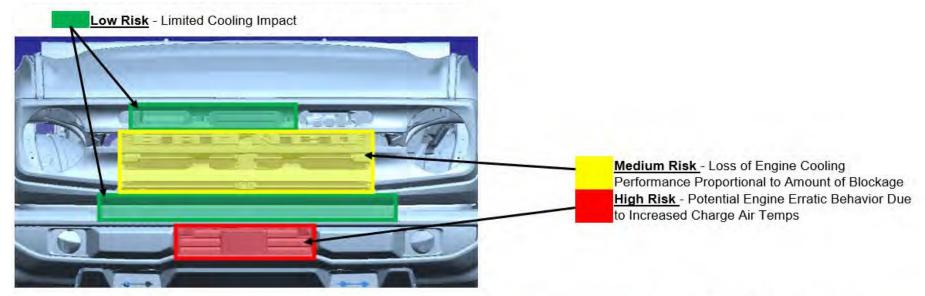
		Wheel Speci	fication		
WheelType	WheelSize (in.)	Wheel Offset (in./mm)	Bolt Circle (in./mm)	No. of Studs	Maximum Wheel Capacity Load Front/Rear
Base	16x7	2.1/55	5.5/139.7	6	1695/1793
Big Bend	17x7.5	2.1/55	5.5/139.7	6	1650/1833
Outer Banks	18x7.5	2.1/55	5.5/139.7	6	1675/1862
Black Diamond	17x7.5	2.1/55	5.5/139.7	6	1635/1804
Badlands	17x8	2.1/55	5.5/139.7	6	1675/1862
Optional Badlands	17x8	2.1/55	5.5/139.7	6	1650/1833
Sasquatch	17x8.5	1.2/30	5.5/139.7	6	1784/2039

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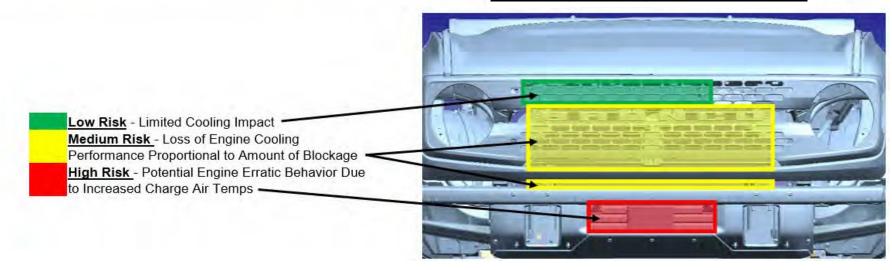
## BRONCO BRONCO COOLING CONSIDERATIONS

2021 MODEL YEAR

### Base, Big Bend, Outer Banks, Black Diamond Series



### Badlands, Wildtrak, First Edition Series





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## BRONCO ELECTRICAL WIRING ACCESSORY SWITCHES AND WIRING

2021 MODEL YEAR

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**

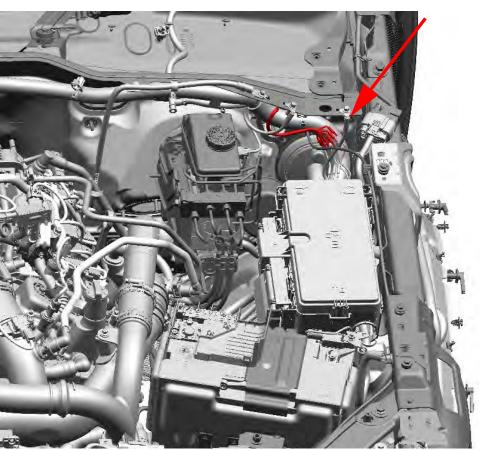
Switch Assignment	Wire Color	Wire Size	Fuse Size
AUX 1	Yellow	1.5 mm <sup>2</sup>	30A
AUX 2	Green/Brown	1.5 mm <sup>2</sup>	15A
AUX 3	Violet/Green	0.75 mm <sup>2</sup>	10A
AUX 4	Brown	0.75 mm <sup>2</sup>	10A
AUX 5	Blue/Orange	0.75 mm <sup>2</sup>	10A
AUX 6	Yellow/Orange	0.75 mm <sup>2</sup>	10A

### Non-Powered Circuits

Terminal Location 1	<b>Terminal Location 2</b>	Wire Color	Wire Size (1)
A1 - Engine Compartment near Fuse Box	A2 - Passenger Compartment RH	Brown/White	1.5 mm²
B1 - Engine Compartment near Fuse Box	B2 - Passenger Compartment RH	White	1.5 mm²
C1 - Engine Compartment near Fuse Box	C2 - Front Grille	Violet/Grey	1.5 mm²
D1 - Passenger Compartment RH	D2 - Right-hand Visor	Grey/Orange	1.5 mm²
E1 - Passenger Compartment RH	E2 - Right-hand Rear Quarter Panel	White/Orange	1.5 mm²

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

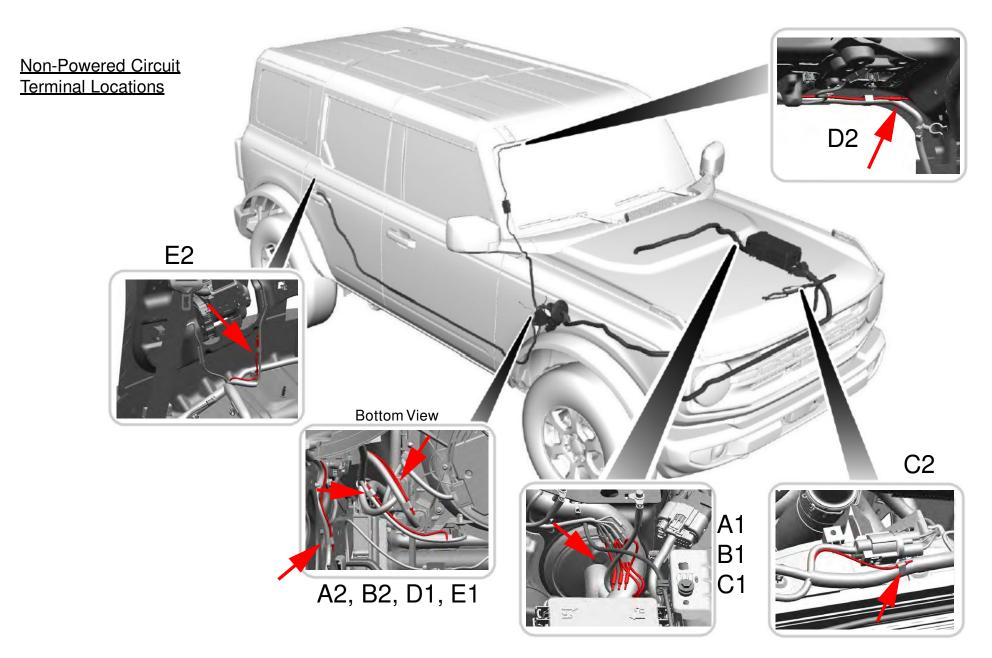
### Powered Circuit Terminal Location - Underhood





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



BRONCO

## BRONCO ELECTRICAL WIRING ADDED CIRCUITS

2021 MODEL YEAR

### 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 2.5 mm.
- The two open terminal studs have different size threads (see below). Use Property Class 8 or 10 nuts for this application.

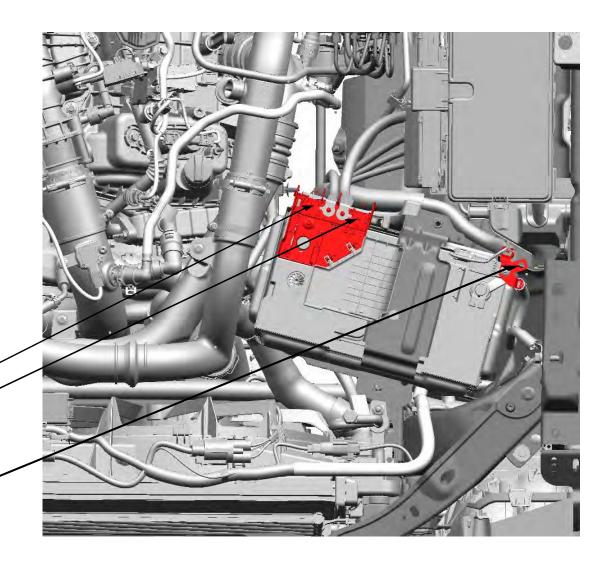
### **Circuit Grounding**

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.

### Loca�ons for B+connec�on

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





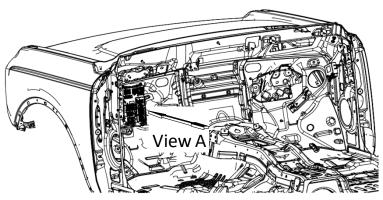
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### **BRONCO ELECTRICAL WIRING** ADDED CIRCUITS, CONT'D

MODEL YEAR

### Delayed Accessory

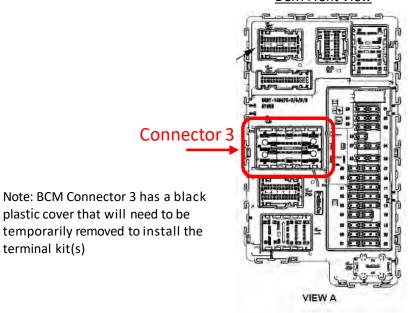
When installing auxiliary equipment that is active with delayed accessory, a BCM feed can be used to directly power added circuit(s) not exceeding 30A consumpon. Install a female terminal kit (DU2Z-14474-JA) into the open location in BCM Connector 3, Pin 36 to start the circuit(s). This BCM output is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



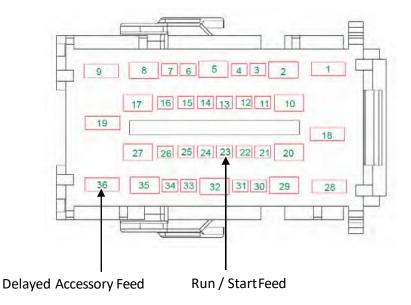
### Run / Start

When installing auxiliary equipment that is ac ve with Run / Start condi on, a dy 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**



### View of Front Face of BCM Connector 3



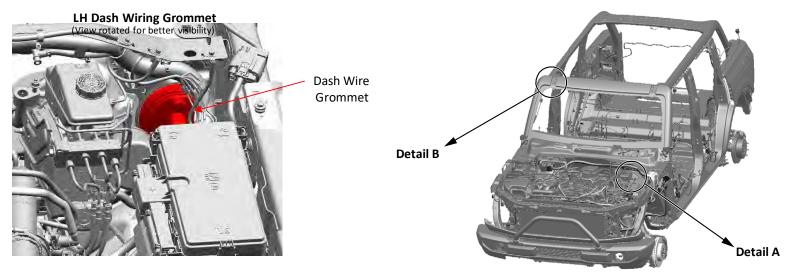
terminal kit(s)

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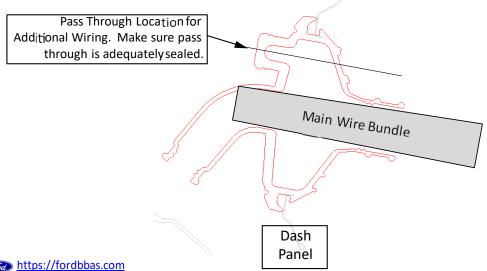
### **BRONCO ELECTRICAL WIRING** WIRING PASS THROUGH LOCATIONS

MODEL YEAR

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).

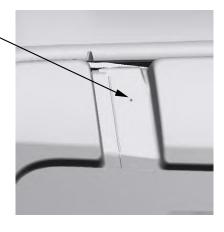


Detail A - Secoon Through Dash Wiring Grommet



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 reinstalling the molding retainer, torque attachment nuts to 10.5 +/- 1.6 Nm.

**Detail B - Roof Ditch Molding** 





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## BRONCO CHMSL CIRCUIT

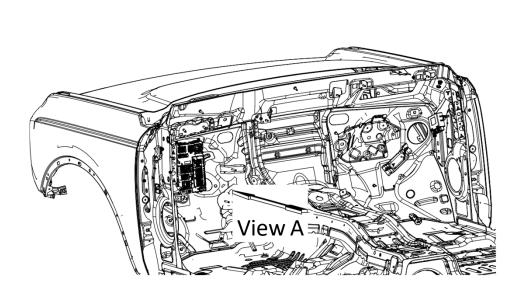
2021 MODEL YEAR

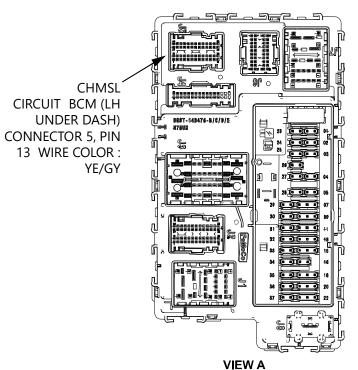
When Equipment is mounted that blocks the factory CHMSL, An auxiliary CHMSL must be fitted.

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





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### **BRONCO BRONCO ELECTRICAL WIRING - HEAD ANDTAIL LAMPS**

MODEL YEAR



### **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

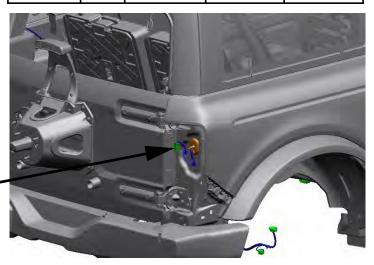
### Notes

- (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				
Functi on	Pin#	Wire Color	Circuit Type	Max Current (2)
Reverse	4	GN/BN	PWM	3.9A (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	3.9A (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





