



DESTROYER E SERIES

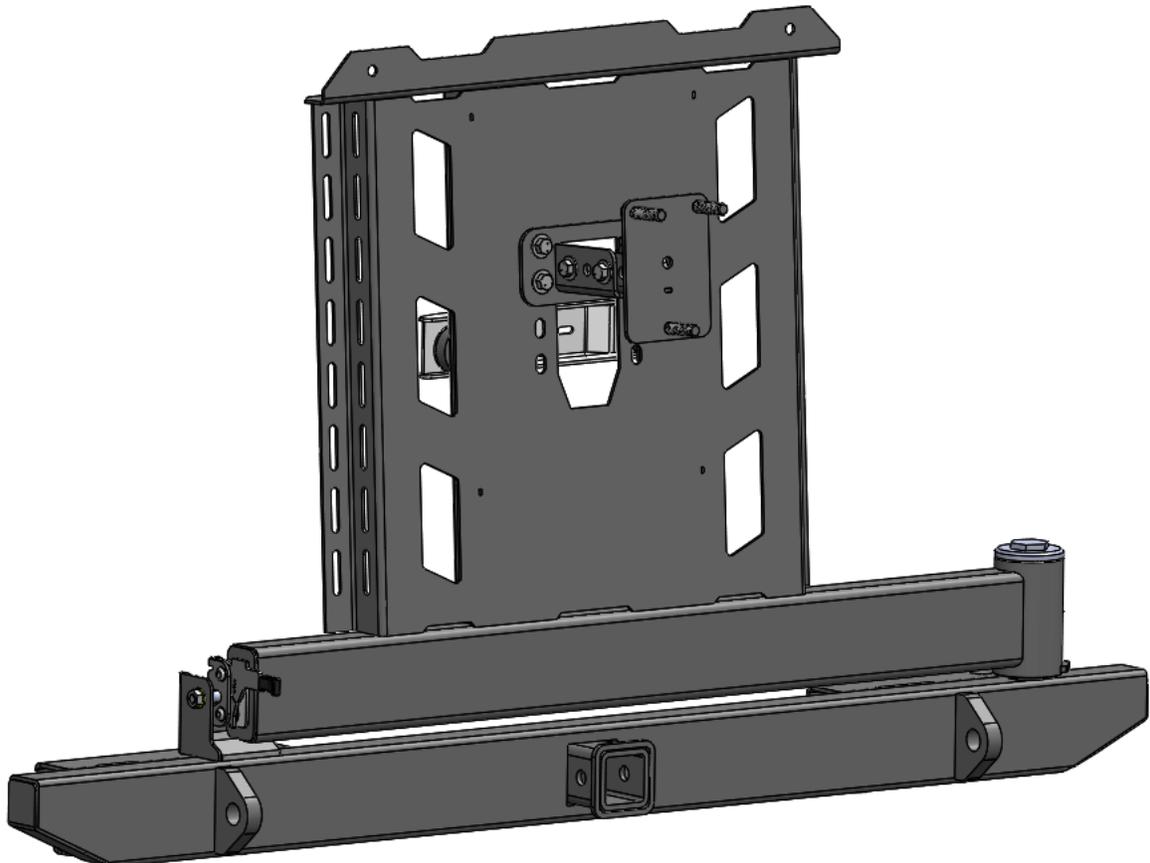


JEEP CJ DESTROYER E SERIES
TIRE CARRIER



WEB LINK: <http://lodoffroad.com/assets/pdfs/JBC7620 CJ DESTROYER E SERIES TIRE CARRIER.pdf>

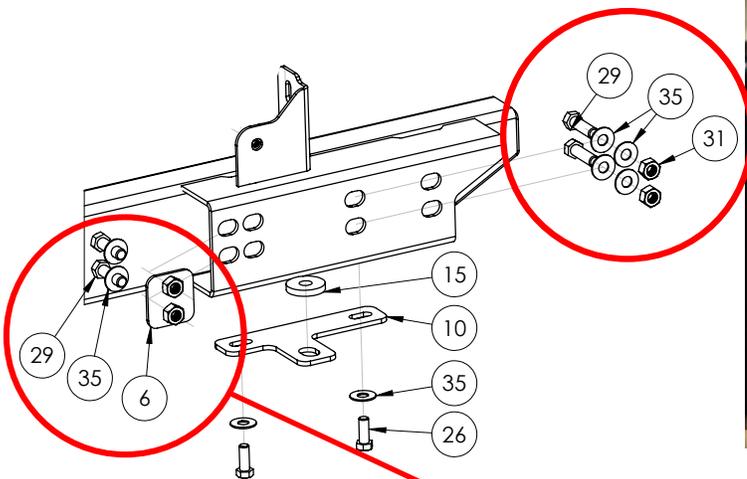
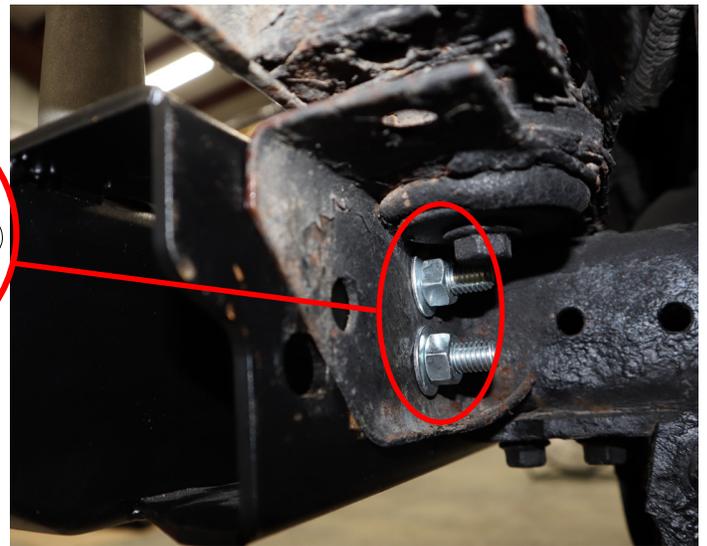
VERIFY YOU HAVE ALL THE COMPONENTS BEFORE STARTING THE INSTALLATION. REFER TO THE ENGINEERING DRAWINGS AT THE END OF THIS DOCUMENT FOR A COMPLETE PARTS LIST



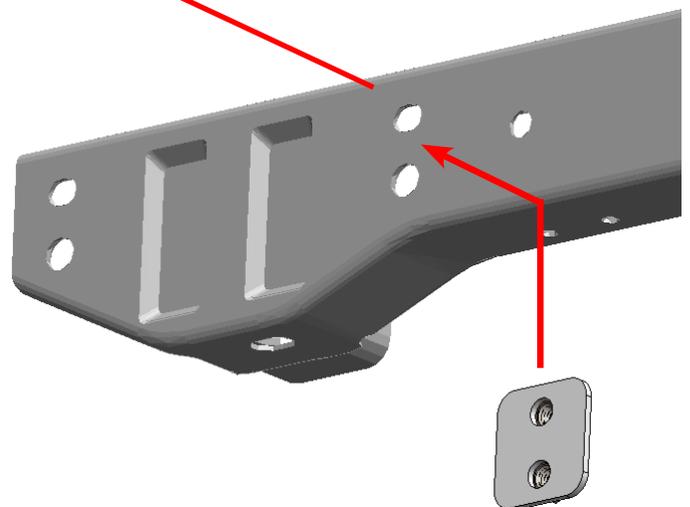
Start by removing your rear bumper. Use a floor jack or a helper to help hold your new rear bumper up to the rear cross member.



Install the 7/16" Hex Bolts, Nuts and Washers into the two outside mounting holes first. Leave these slightly loose while you finish the bumper installation



Install the 7/16" Hex Bolts, Washers and Frame Backing Plate as shown into the second set of holes in the rear Cross Member. You may need to lower the gas tank skid plate to access these holes to be able to insert the Frame Backing Plate behind the Cross Member. Leave these bolts loose while you finish the bumper installation.

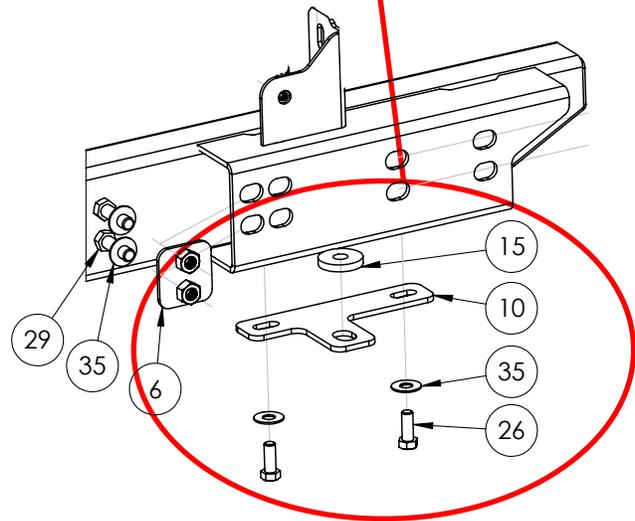


Install the Bottom Bracket as shown using 3/8" Hex Bolt and washers into the bumper. You will need to use the existing leaf spring mounting bolt to install the bracket to the frame.

Use the supplied 1/4" thick Spacer Washer to fill the gap if needed

If the threads are no longer usable after you remove this bolt, you may need to drill and tap this hole to the next larger size.

Once all the bolts are installed, make sure the bumper is centered on the Jeep and level side to side. Tighten all the mounting bolts securely. Once the bumper is secure reinstall the gas tank skid plate if you removed it previously.

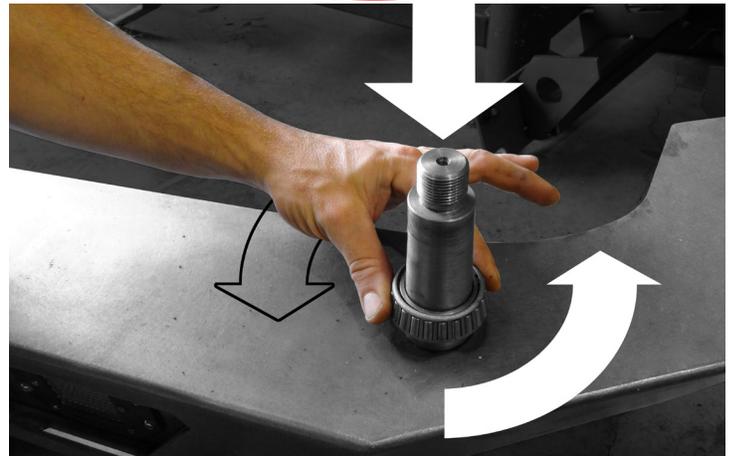


Place bottom bearing LM29749 onto the spindle, tapered side up. It should slide down all the way and spin freely. If not, you are using the wrong bearing.

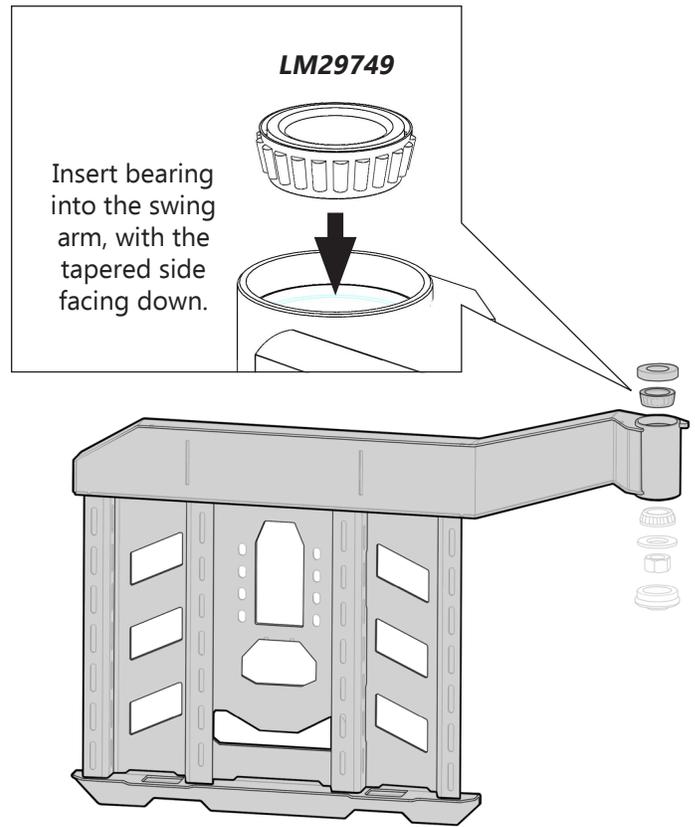
Make SURE to check the bearing number to be sure you have the correct one.

Be sure not to mix up the top and bottom bearings as this can damage the spindle and bearings.

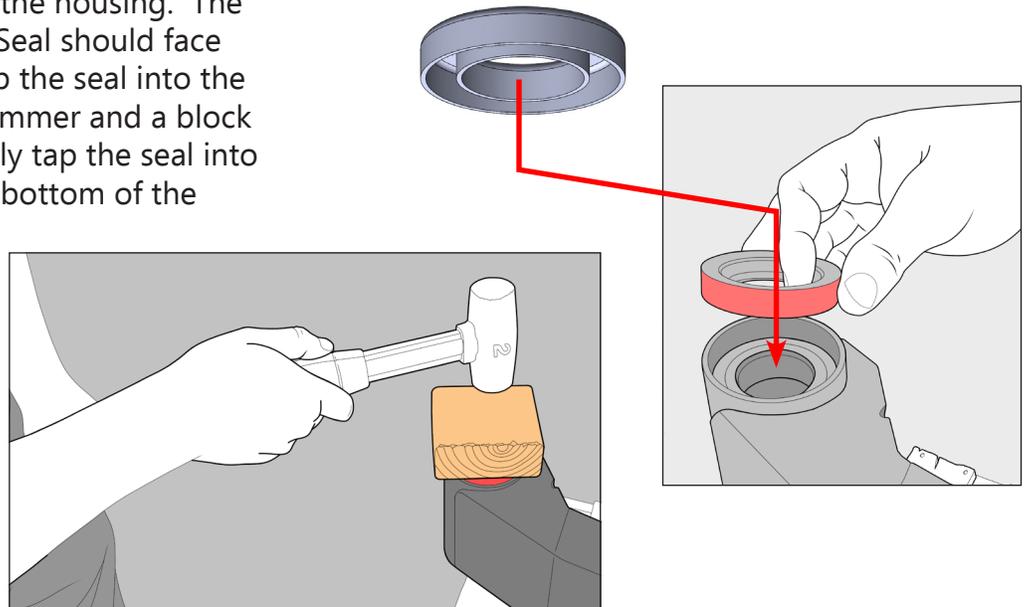
Pack the bearings using red wheel bearing grease using the palm method. You can find an explanation and video of this online.



Next place the tire carrier Swing Arm upside down as shown in the image below. Insert the greased bottom bearing LM29749 into the housing with the tapered side facing into the housing.

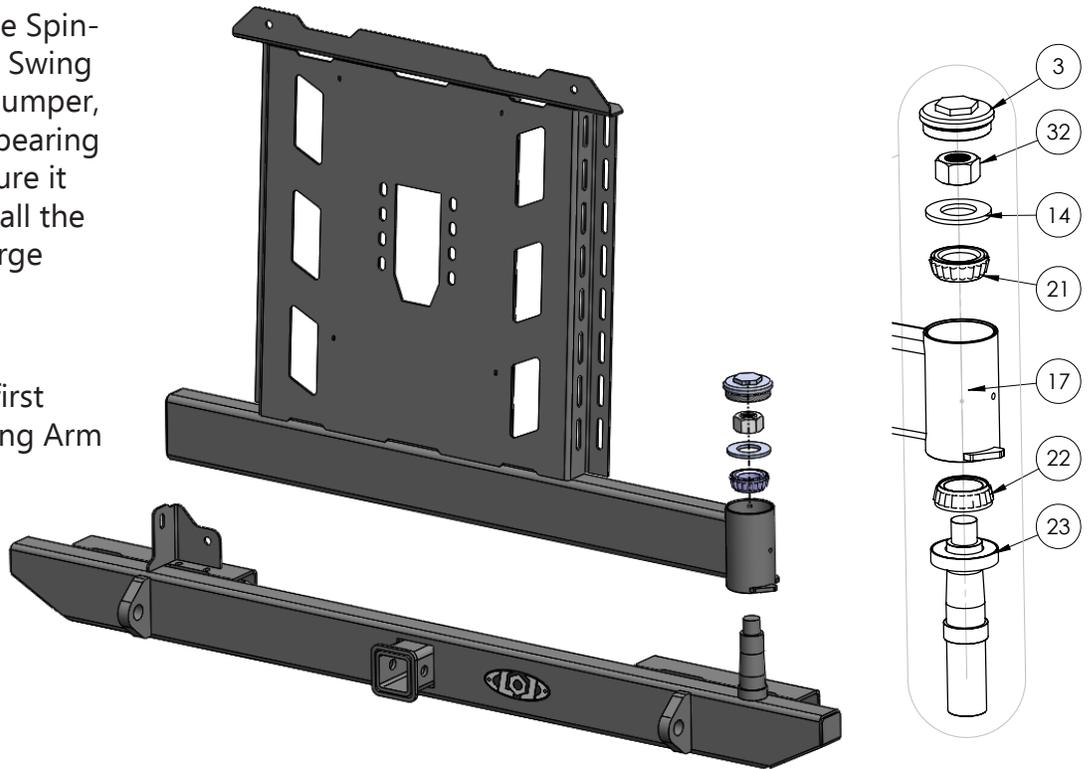


Place the Bearing Seal onto the housing. The cupped side of the Bearing Seal should face into the housing. Lightly tap the seal into the housing opening using a hammer and a block of wood. Be careful to evenly tap the seal into place until its flush with the bottom of the housing.



With a helper, slowly place the Swing Arm onto the Spindle. While holding the Swing Arm parallel with the bumper, place the top tapered bearing into the housing. Be sure it seats properly and install the Bearing Washer and large Nut.

Hand tighten the Nut first and make sure the Swing Arm operates smoothly.

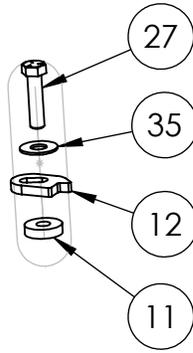


It is a good idea to add a little blue loctite to the Nut to prevent loosening. Slowly tighten the nut using a 1-1/2" Socket. Check the swing arm movement every 1/8th turn. The Swing Arm movement should not be restricted and should move freely. Overtightening could damage the bearings.

Install and tighten the Spindle Cap.

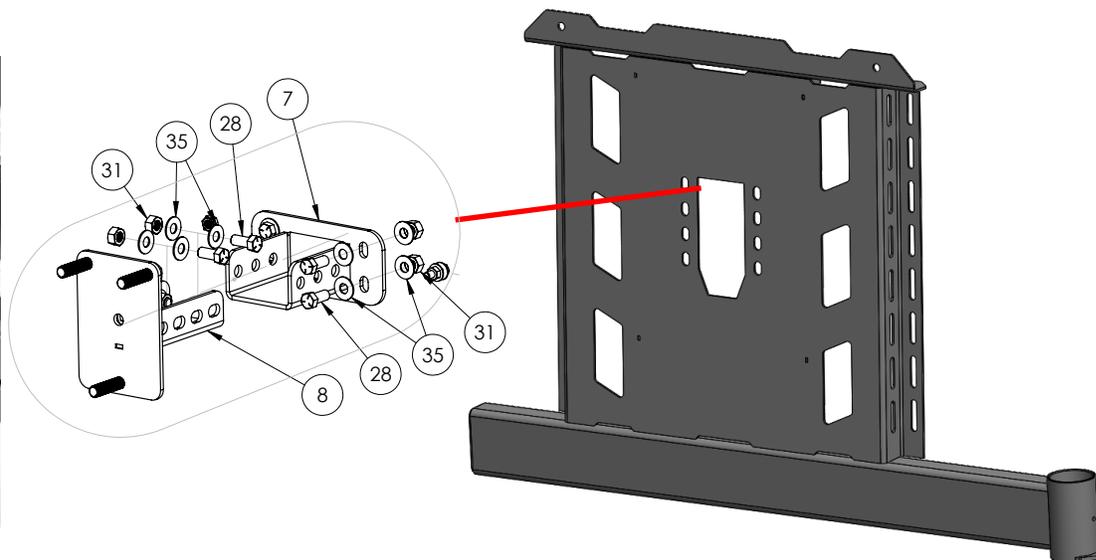


Install the tire carrier Swing Stop. Be sure to adjust it to allow the Swing Arm to open completely and allow full use of your tailgate and tighten securely. If you have accessories mounted on your tire carrier, you can adjust this slightly to help avoid the accessories hitting the Jeep when you open the Swing Arm.



The Swing Stop is designed to allow the swing arm to rest in the open position when the Jeep is out of level. It is also a safety feature that will help stop the tire carrier Swing Arm from swinging around and damaging your Jeep. Repeatedly allowing the Swing Arm to swing around uncontrolled could damage the swing stop. Always open the Swing Arm and allow it to gently rest against the Swing Stop.

Install the Tire Mount and Tire Mount Bracket onto the Swing Arm using 7/16" Hex Bolts, Nuts and Washers. You will want to mount this in the lowest position that will work for your size tire. Measure the radius of your tire then transfer that measurement up from the top of the bumper to find the optimal position for your Tire Mount.

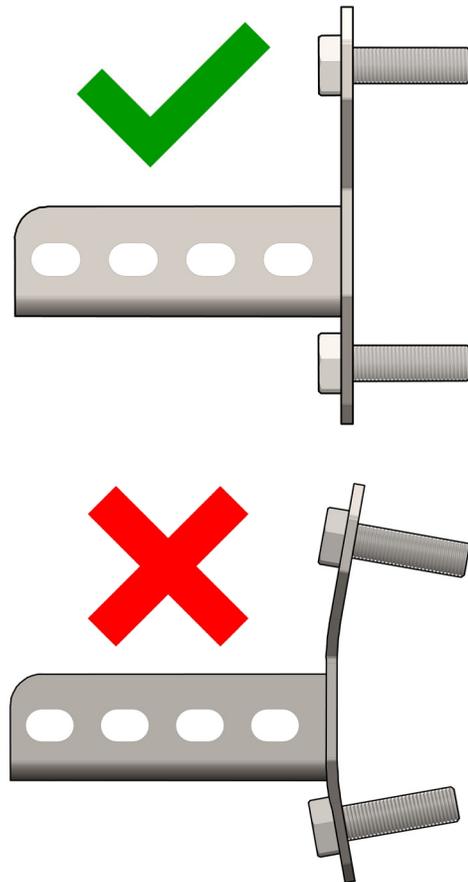
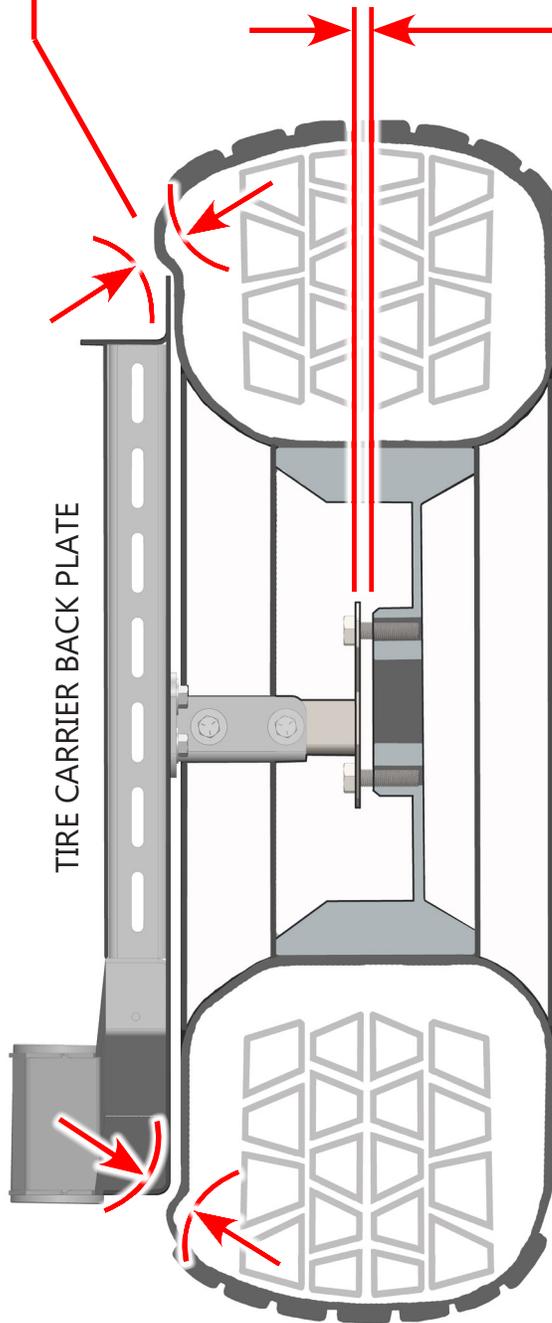


With the tire mounted, there could be a small gap between the back of the wheel and the Tire Mount Plate approximately 1/4"-1/2". This is ok because the tire is pressed against the Tire Carrier Back Plate. The tire should be tight against the back plate and not able to wiggle side to side or up and down. This keeps the tire from shaking on the tire carrier.



Your tire should squeeze against the back plate of the tire carrier at the top and the bottom.

There could be a small gap between the back face of the wheel and the Tire Mount Bracket depending on your wheel back spacing. Do not over-tighten the lug nuts because this will cause excessive stress on the Tire Mount Bracket.

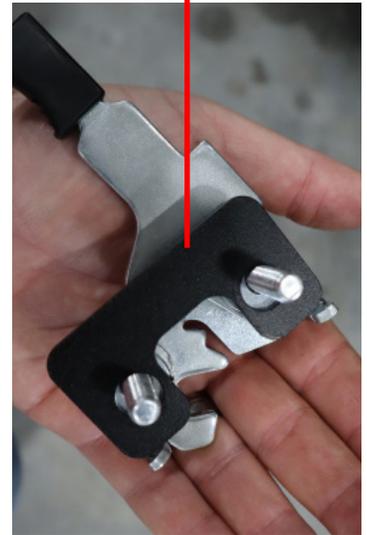
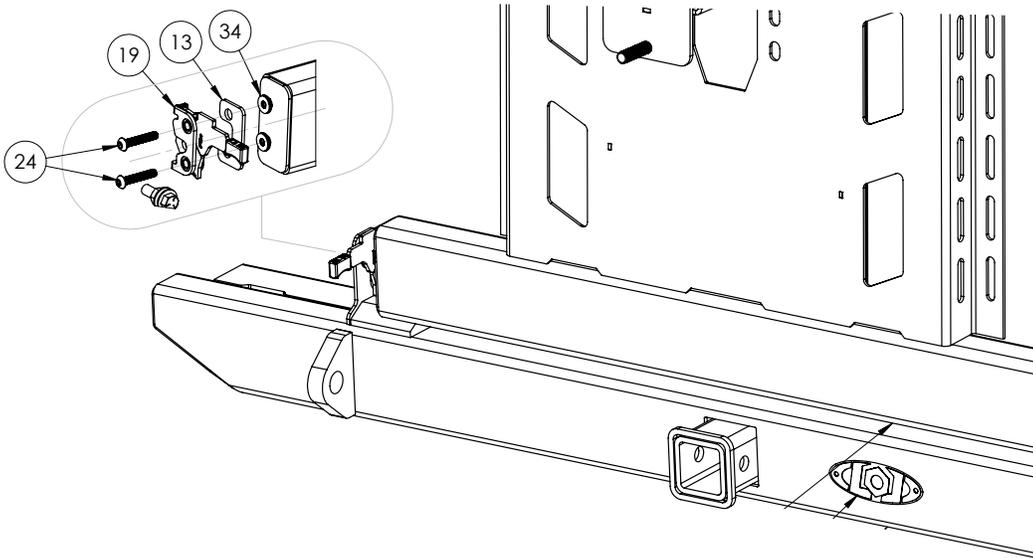
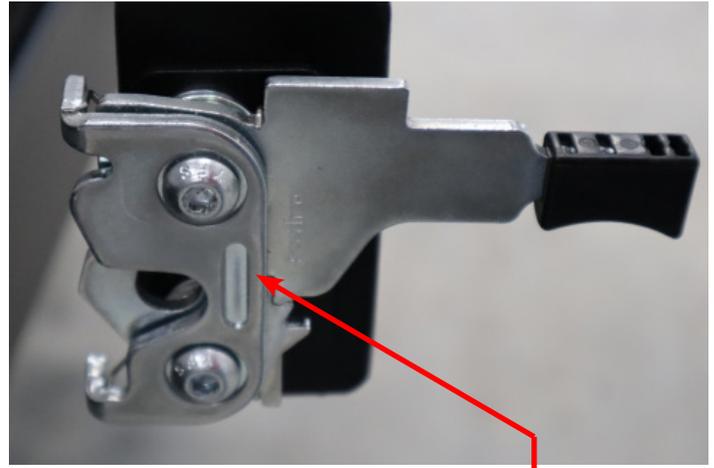


WARNING!

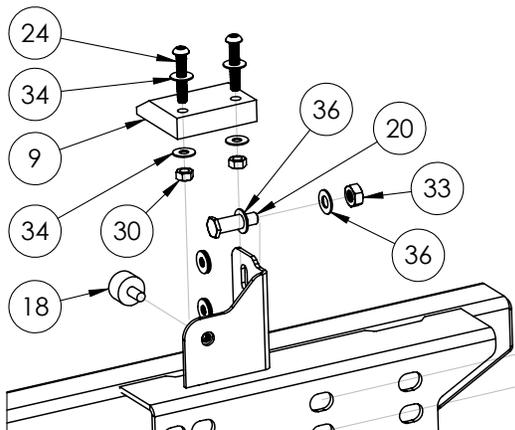
To prevent excessive tire shaking, your tire must be squeezed and making contact with the Tire Carrier Back Plate. Failure to do so could lead to Tire Bracket failure.

Install the Latch and Latch Spacer onto the end of the Swing Arm. Just snug them up because you may need to adjust it in the following steps.

The Latch Spacer is used to help position the latch relative to the Striker Bolt. Also included in the hardware are 1/4" Washers. These are placed between the Latch and the Swing Arm and can be used for fine adjustment if needed. Start by installing just the Latch and Latch Spacer for now.



Next install the Striker Bolt with Yellow Zinc plated Washers and Metric M10 Nut. Just snug these up for now until all adjustments are made. Also install the small rubber bumper as shown.



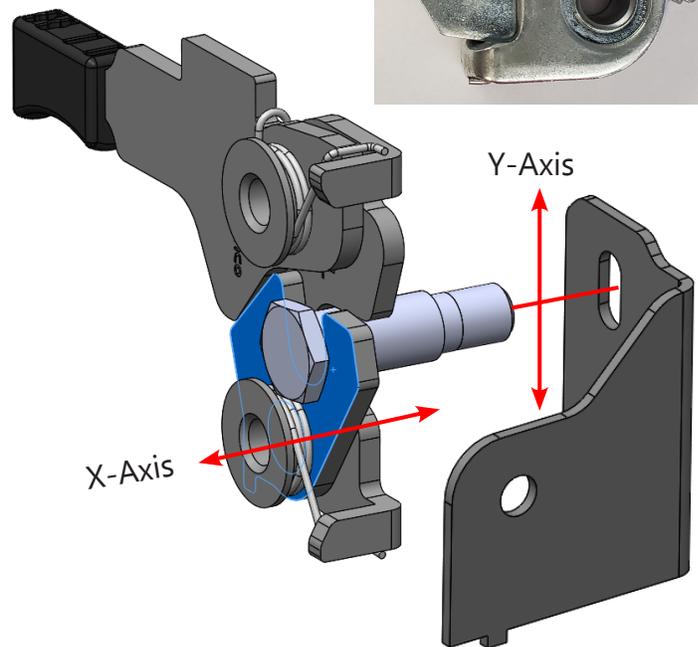
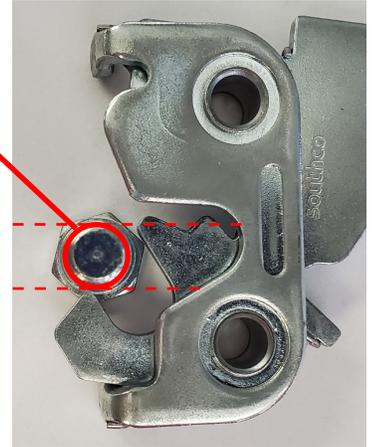
LATCH ADJUSTMENT

For smooth latch operation, be sure to adjust the latch with the tire carrier loaded with your spare tire and any other normal accessories you will run.

With the tire carrier loaded, adjust the position of the Striker Bolt up or down along the Y-Axis until it lines up with the Latch.

Next position the latch on the X-Axis using the Latch Spacer and/or the 1/4" washers to position the head of the Striker Bolt as close to the BLUE highlighted face without rubbing.

Position of Striker Bolt relative to the Latch



Make sure the two large rubber bumpers and the small bumper are threaded all the way in and out of the way of the Swing Arm while you adjust the Latch.

Test the operation of the latch by slowly closing the swing Arm until the latch engages. If needed add or remove spacers from the Latch mounting or adjust the Striker Bolt up or down until the Swing Arm closes easily.

Once adjusted, tighten the Latch and Striker Bolt Securely.



Always close the tire carrier Swing Arm by pushing on the arm near the Latch or the bottom of the tire. This helps to insure the Latch catches the Striker Bolt securely.

Closing the tire carrier Swing Arm from any other location may cause the Latch not to engage properly.

Always check to make sure the Latch is secure before driving.

With the swing arm closed, unthread the small rubber bumper until it touches the arm, then add another 1/2 to 1 full turn. This bumper should limit the Swing Arm movement and keep the Latch from rattling against the Striker Bolt.

When adjusted correctly you should not have to slam the Swing Arm closed for the latch to operate correctly but you will need to use a little force.

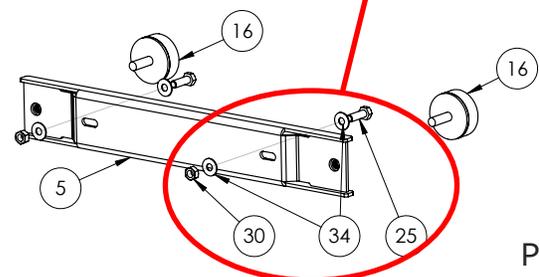
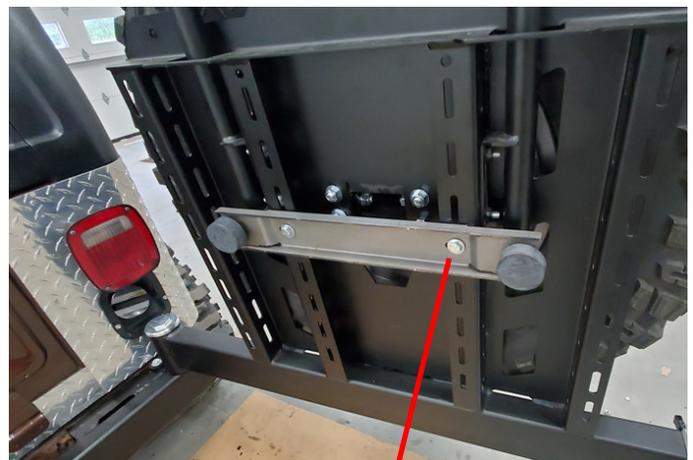
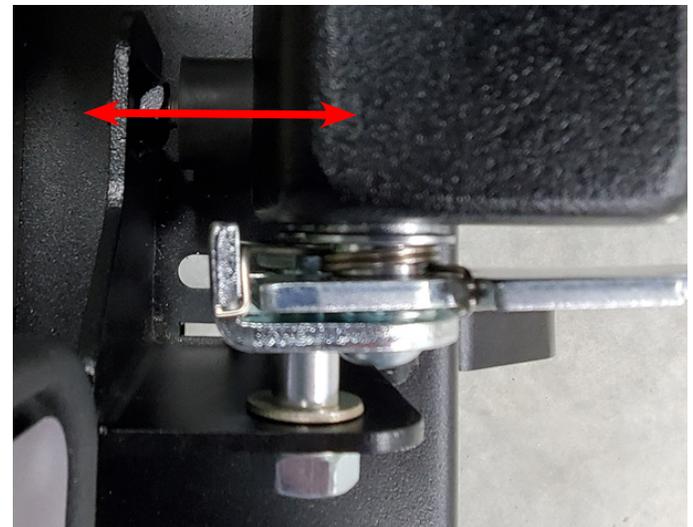
You may need to adjust the latch if you remove accessories from your tire carrier or change tire size.

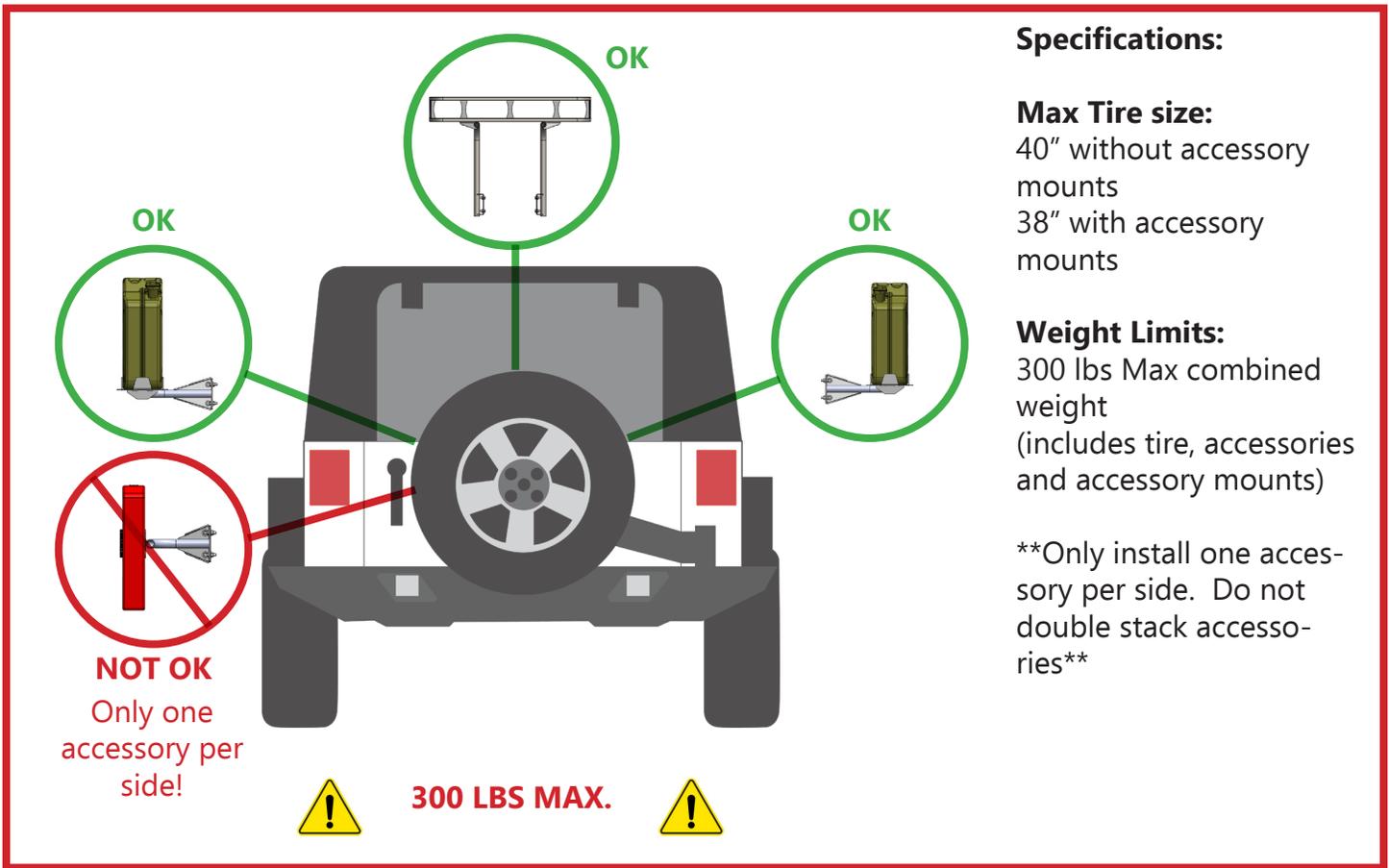
Install the Bumper Mount Bracket onto the inside of the Swing Arm as shown using 5/16" Hex Bolt, Nut and Washers.

Install the large Rubber Bumpers and adjust them so that when the Swing Arm is closed they are compressed against the Jeep Tail Gate. These bumpers will help limit Swing Arm movement and vibration.

When adjusted correctly you should not hear any rattles while shaking the loaded tire carrier. If the tire shakes excessively while driving you may need to adjust these bumpers.

You can use a little green or blue loctite on the bumper threads to keep them from changing position during daily use.





Specifications:

Max Tire size:
 40" without accessory mounts
 38" with accessory mounts

Weight Limits:
 300 lbs Max combined weight
 (includes tire, accessories and accessory mounts)

Only install one accessory per side. Do not double stack accessories

****Maintenance****

Tire Carrier & Swing Arm:

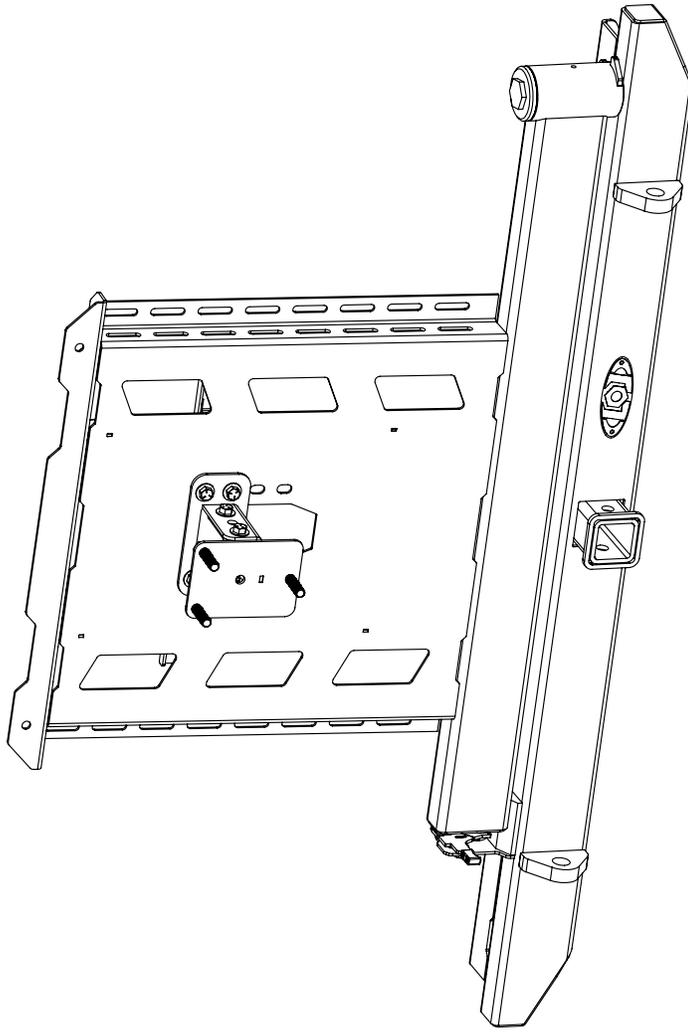
- Once per year or as needed, add bearing grease to the Tire Carrier Swing Arm Spindle via the grease fitting on the side of the spindle. We suggest using a Lithium type automotive multi-purpose grease or wheel bearing grease (Red) that is water resistant.
- Periodically check and re-tighten all fasteners. Adjust the swing arm bumpers to ensure rattle free operation.
- Periodically check your Bumper and Tire Carrier and accessory mounts for scratches, dings, or rust spots which can happen over time or after heavy use. It is important to address these areas as soon as possible to prevent rust and corrosion from spreading. We recommend using Rustoleum® brand Black Semi-Gloss Protective Enamel (oil based). Apply using a foam brush by dabbing to match the powder coat texture.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4JBC9620-04	DESTROYER E SERIES REAR BUMPER TC	1
2	4JBC9640-03	TJ/LJ DESTROYER SWING ARM	1
3	2JC1002-03	SPINDLE CAP	1

HARDWARE KIT			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	LOGO1001	DESTROYER LOGO - EMBOSSED	1
5	4JBC7620-02	CJ BUMPER MOUNT BRACKET	1
6	4JBC9620-01	FRAME BACKING PLATE	2
7	4JTC1001-04	TIRE MOUNT BRACKET	1
8	4JBC7620-01	CJ EXPEDITION TIRE MOUNT 5X5.5	1
9	2JBC9640-21	SUPPORT PAD	1
10	2JBC7620-09	CJ EXPEDITION BOTTOM BRACKET	2
11	2JBC1800-11	SWING STOP SPACER	1
12	2JBC1800-10	SWING STOP	1
13	2JBC9640-17	LATCH SPACER	1
14	2JTC1001-22	BEARING WASHER	1
15	2JWP1800-01	SPACER WASHER	2
16	2JTC1001-52	RUBBER ISOLATOR	2
17	2JTC0701-10	GREASE FITTING 1/4-28	1
18	BP1001	RUBBER BUMPER 5/16-18 X .62" LG	1
19	LAT1002	ROTARY PUSH TO CLOSE LATCH	1
20	LAT1003	ROTARY LATCH STRIKER BOLT M10	1
21	LM48548	TOP TAPERED BEARING	1
22	LM29749	BOTTOM TAPERED BEARING	1
23	450068	TIMKEN BEARING SEAL 450068	1

BOLT KIT			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
24	BHSCS311828ZP	BHSCS 5/16-18 X 1.75 ZINC PLATE	4
25	HB311816ZPGR5	HEX BOLT 5/16-18 X 1.00 ZINC PLATE GR5	2
26	HB3811616ZPGR5	HEX BOLT 3/8-16 X 1.00 ZINC PLATE GR5	4
27	HB3811624ZPGR5	HEX BOLT 3/8-16 X 1.500 ZINC PLATE GR5	1
28	HB431416ZPGR5	HEX BOLT 7/16-14 X 1.00 HEX BOLT ZINC PLATE GR5	8
29	HB431424ZPGR5	HEX BOLT 7/16-14 X 1.50 HEX BOLT ZINC PLATE GR5	8
30	HN3118ZPGR5	HEX NUT 5/16-18 ZINC PLATE GR5	4
31	HN4314ZPGR5	HEX NUT 7/16-14 ZINC PLATE GR5	12
32	HN1014ZPGR5	HEX NUT 1-14 ZINC PLATE GR5	1
33	HN10150MZPCL8	HEX NUT M10 X 1.50mm ZINC PLATE CL8	1
34	FW2512ZP	FLAT WASHER Ø1/4" X .75 ZINC PLATE	14
35	FW3816ZP	FLAT WASHER Ø3/8" X 1.00 ZINC PLATE	33
36	FW3813YZ	FLAT WASHER Ø.406" X .812 YELLOW ZINC	2



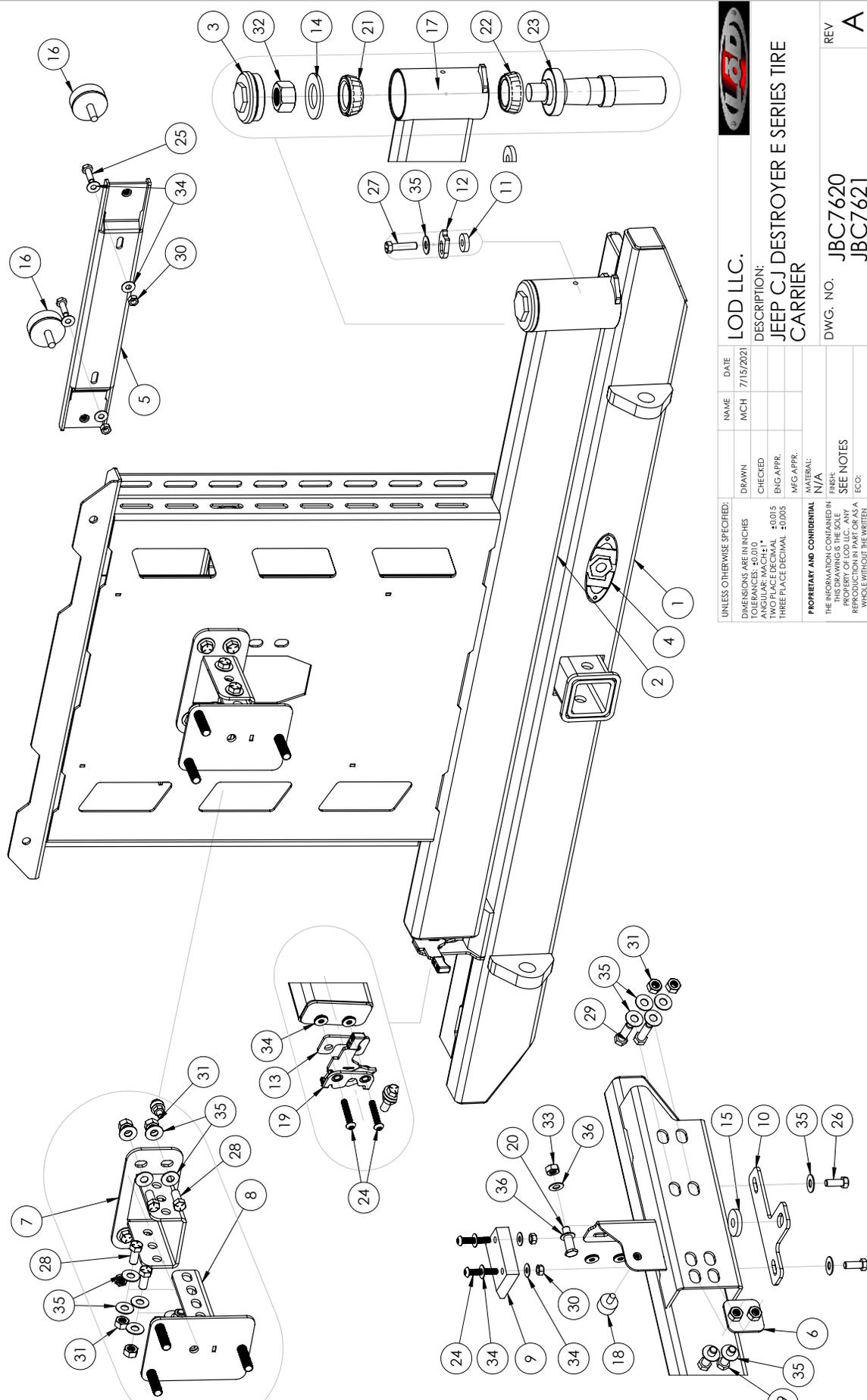
- NOTES**
- JBC7620 = BARE STEEL
 - JBC7621 = BLACK POWDER COAT
 - WEIGHT = APPROX 112 LBS

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	MCH	7/15/2021
ANGLES ARE IN DEGREES	CHECKED		
TWO PLACE DECIMAL	ENG. APPR.		
THREE PLACE DECIMAL	MFG. APPR.		
PROPRIETARY AND CONFIDENTIAL		MATERIAL	
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		SEE NOTES	
		DWG. NO.	JBC7620
			JBC7621
		SCALE:	1:6
		SHEET SIZE:	B
		REV	A
			SHEET 1 OF 2

LOD LLC.

DESCRIPTION:
JEEP CJ DESTROYER E SERIES TIRE CARRIER





LOD LLC.

DESCRIPTION:
**JEEP CJ DESTROYER E SERIES TIRE
 CARRIER**

DWG. NO. **JBC7620
 JBC7621**

NAME	DATE
MCH	7/15/2021

DRAWN	CHECKED	ENG APPR.	MFG APPR.	MATERIAL	FINISH
				N/A	

UNLESS OTHERWISE SPECIFIED:
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 TOLERANCES: ±0.010
 FRACTIONS: ±0.005
 TWO PLACE DECIMAL ±0.015
 THREE PLACE DECIMAL ±0.005

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SEE NOTES

ECO: -

SCALE: 1:1.5 SHEET SIZE: B

REV **A**

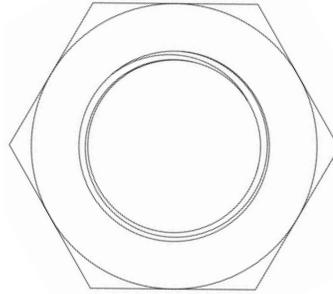
SHEET 2 OF 2



CJ Jeep
 Destroyer E Series
 Tire Carrier
 SHIPPING SHEET

Sheet 1
 Packaged by:

On: _____

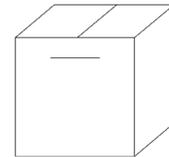
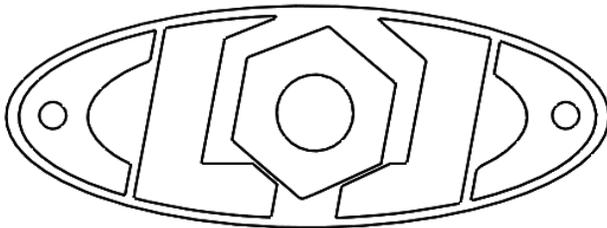
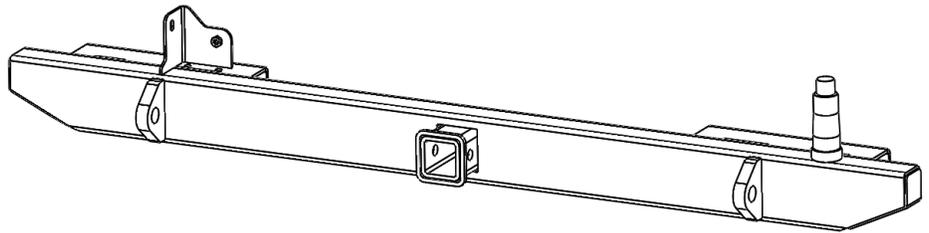


HEX NUT 1-14
 (36370)
(x1)



installed on tire carrier spindle

Destroyer E Series
 Tire Carrier Weldment



Hardware Kit
 (contents
 may vary)



PACKAGED SEPERATE IF BUMPER IS BARE STEEL

LOD LOGO
(x1)

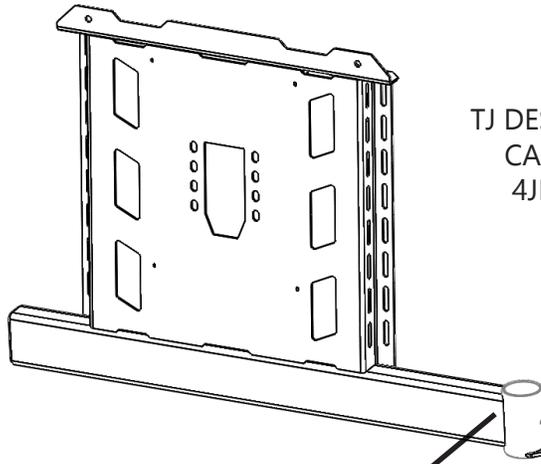




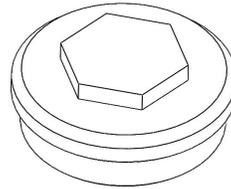
CJ Jeep
Destroyer E Series
Tire Carrier
SHIPPING SHEET

Sheet 2
Packaged by:

On:



TJ DESTROYER TIRE
CARRIER ARM
4JBC9640-03
(x1)



SPINDLE CAP
2JC1002-03
(x1)



*Installed in Tire Carrier Swing Arm



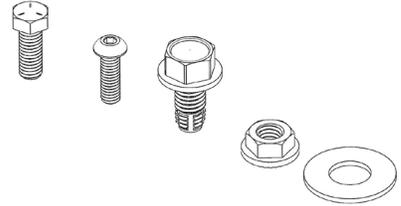
CJ Jeep
 Destroyer E Series
 Tire Carrier
 Hardware Kit
 Sheet 1

Packaged by:

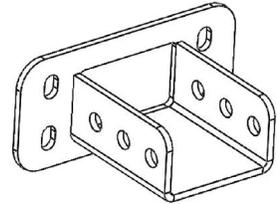
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INSTRUCTION
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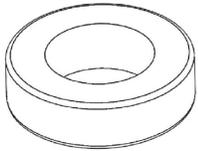


BOLT KIT
 (may vary)

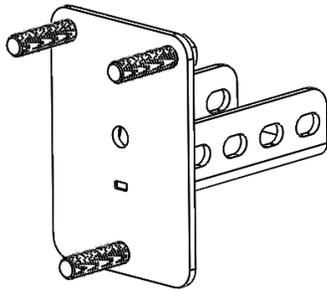


TIRE MOUNT BRACKET
 4JTC1001-04

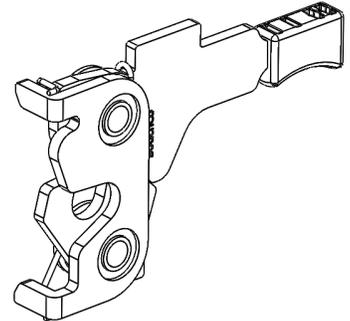
(x1)



BEARING SEAL
 450068
(x1)

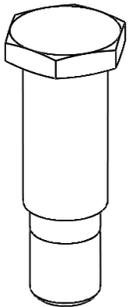


TIRE MOUNT
 4JBC7620-01
(x1)

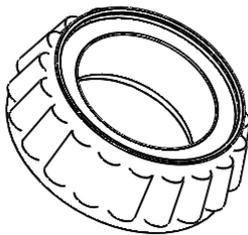


ROTARY LATCH
 LAT1002

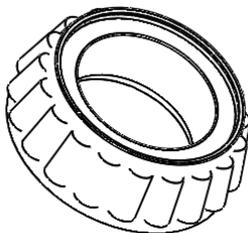
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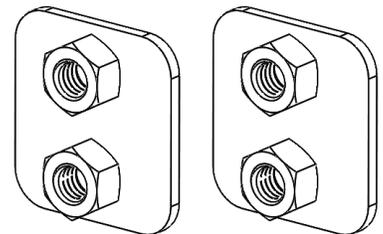
ROTARY LATCH STRIKER
 BOLT
 LAT1003
(x1)



TOP
 TAPERED
 BEARING
 LM48548)



BOTTOM
 TAPERED
 BEARING
 LM29749)



FRAME BACKING PLATE
 4JBC9620-01

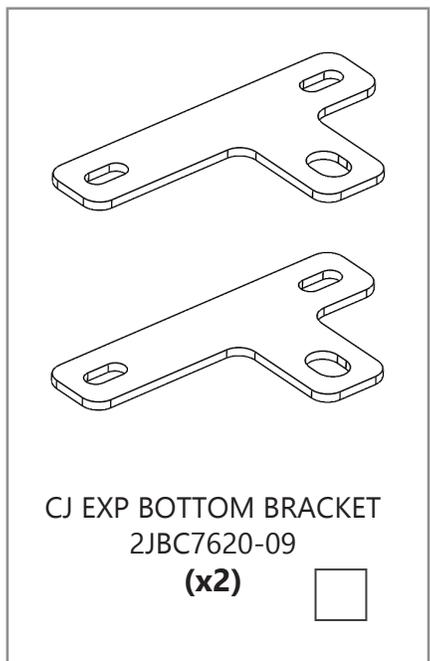
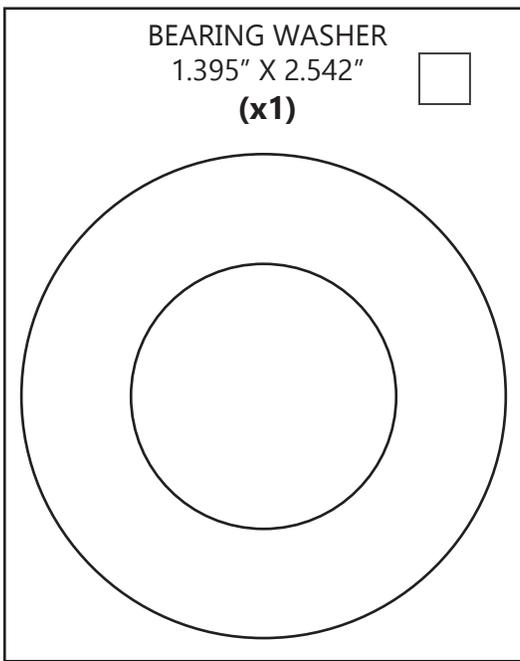
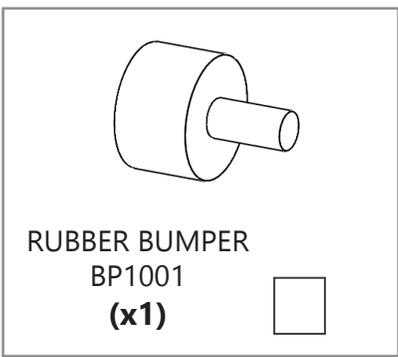
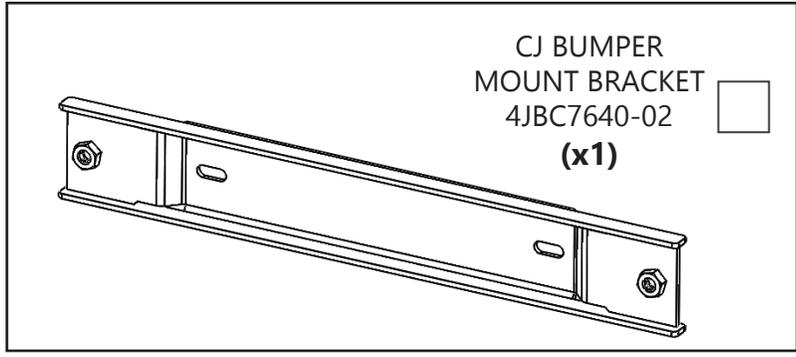
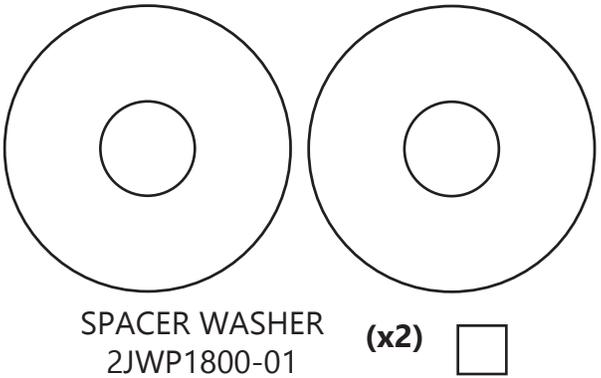
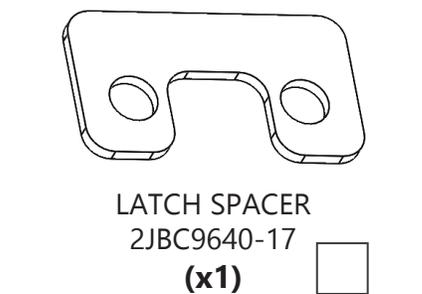
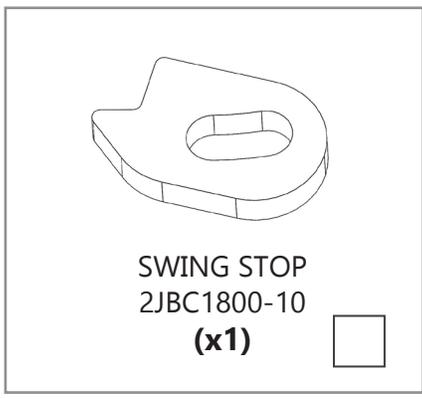
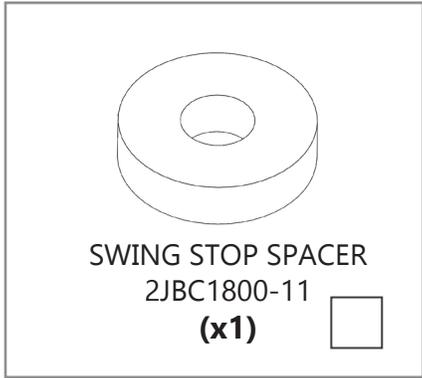
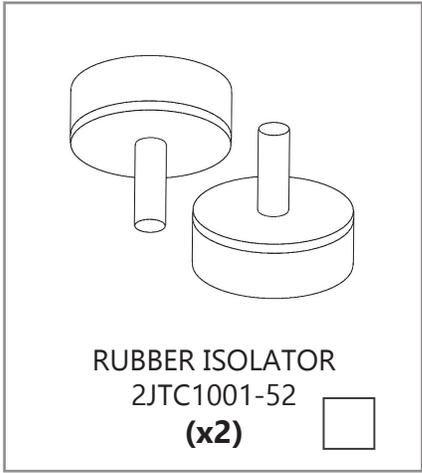
(x2)





CJ Jeep
 Destroyer E Series
 Tire Carrier
 Hardware Kit
 Sheet 2
 Packaged by:

On: _____

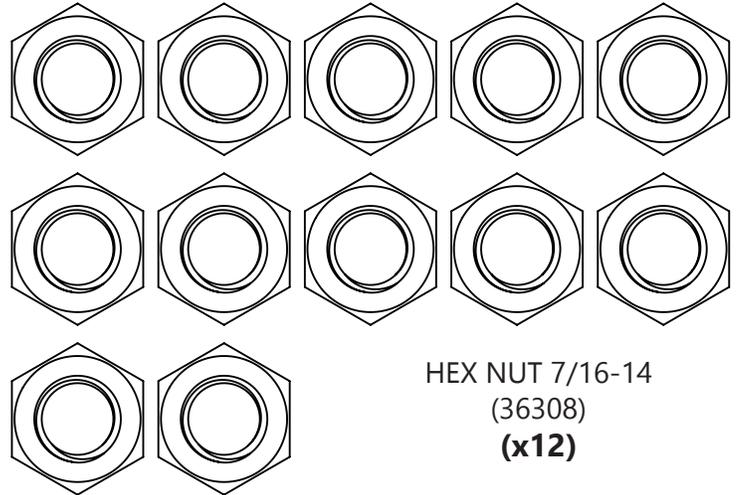




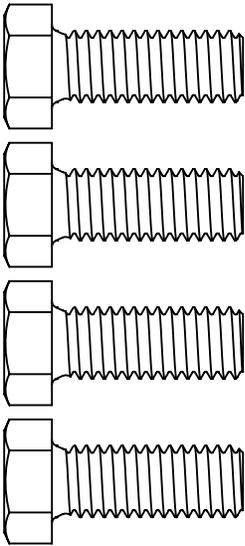
CJ Jeep
Destroyer E Series
Tire Carrier
Bolt Kit

Packaged by:

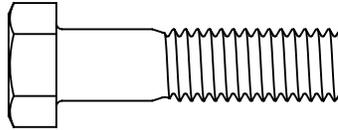
On:



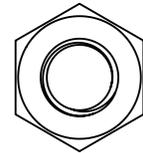
HEX NUT 7/16-14
(36308)
(x12)



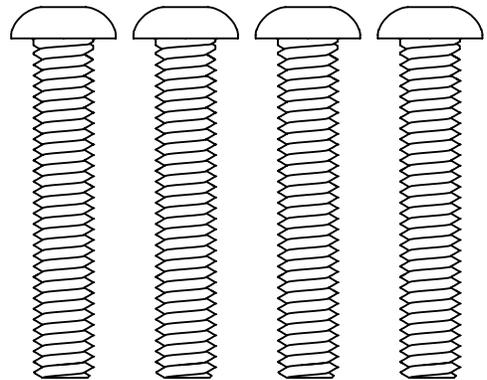
HEX BOLT 3/8-16 X 1.00"
(0137514)
(x4)



HEX BOLT 3/8-16 X 1.50"
(0137516)
(x1)

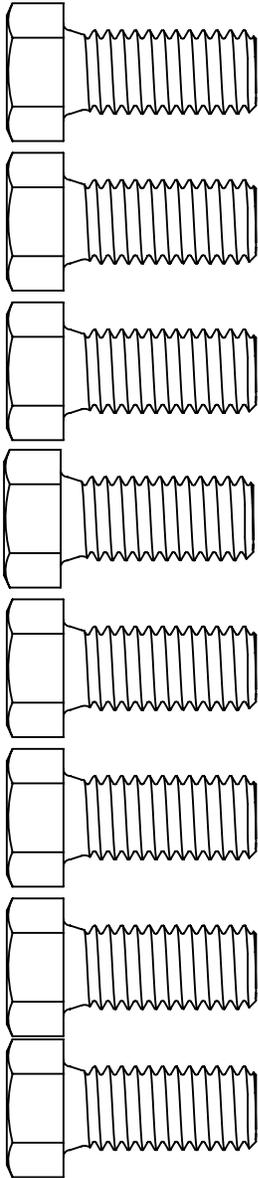


HEX NUT M10 X 1.50MM
(36304)
(x1)

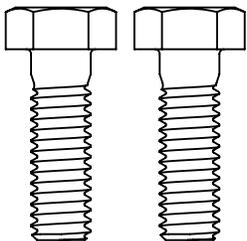


BUTTON HEAD SCREW
5/16-18 X 1.75"
(94074)
(x4)

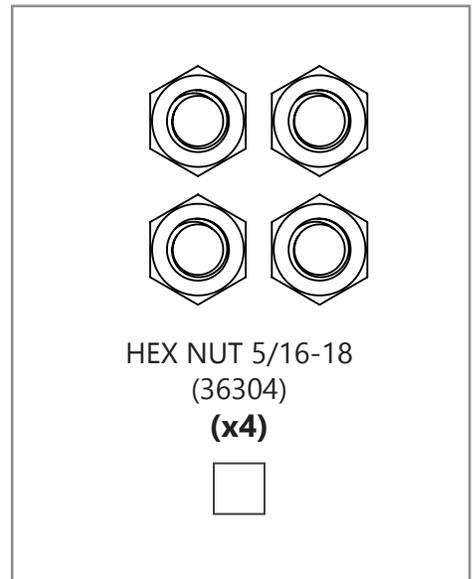
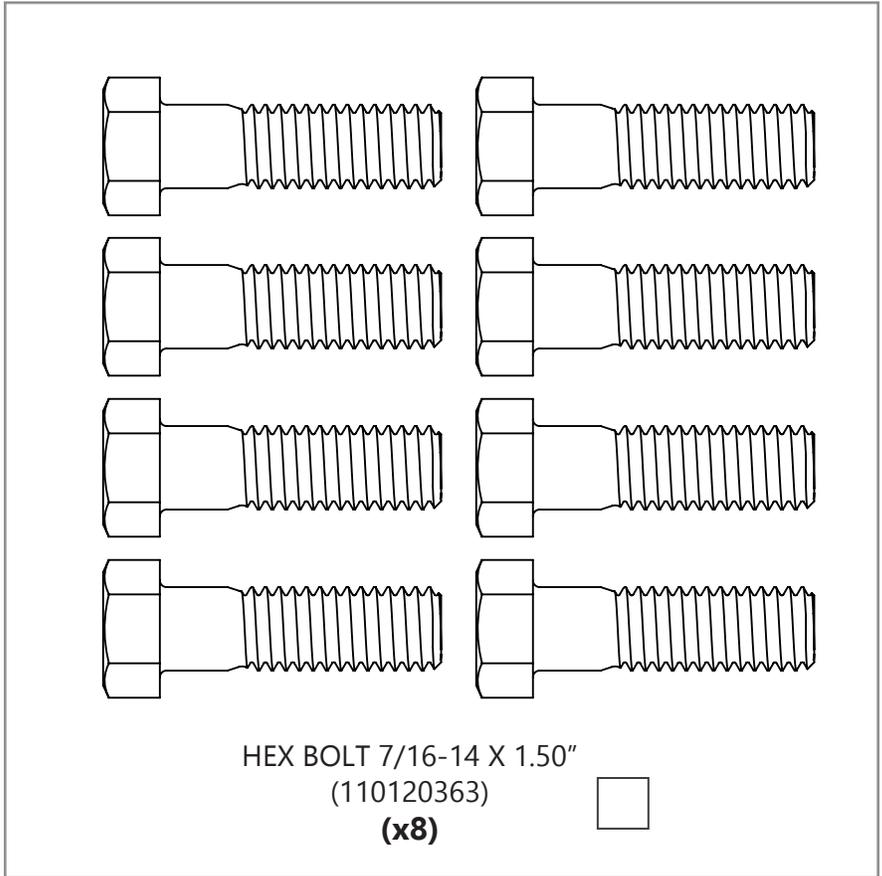


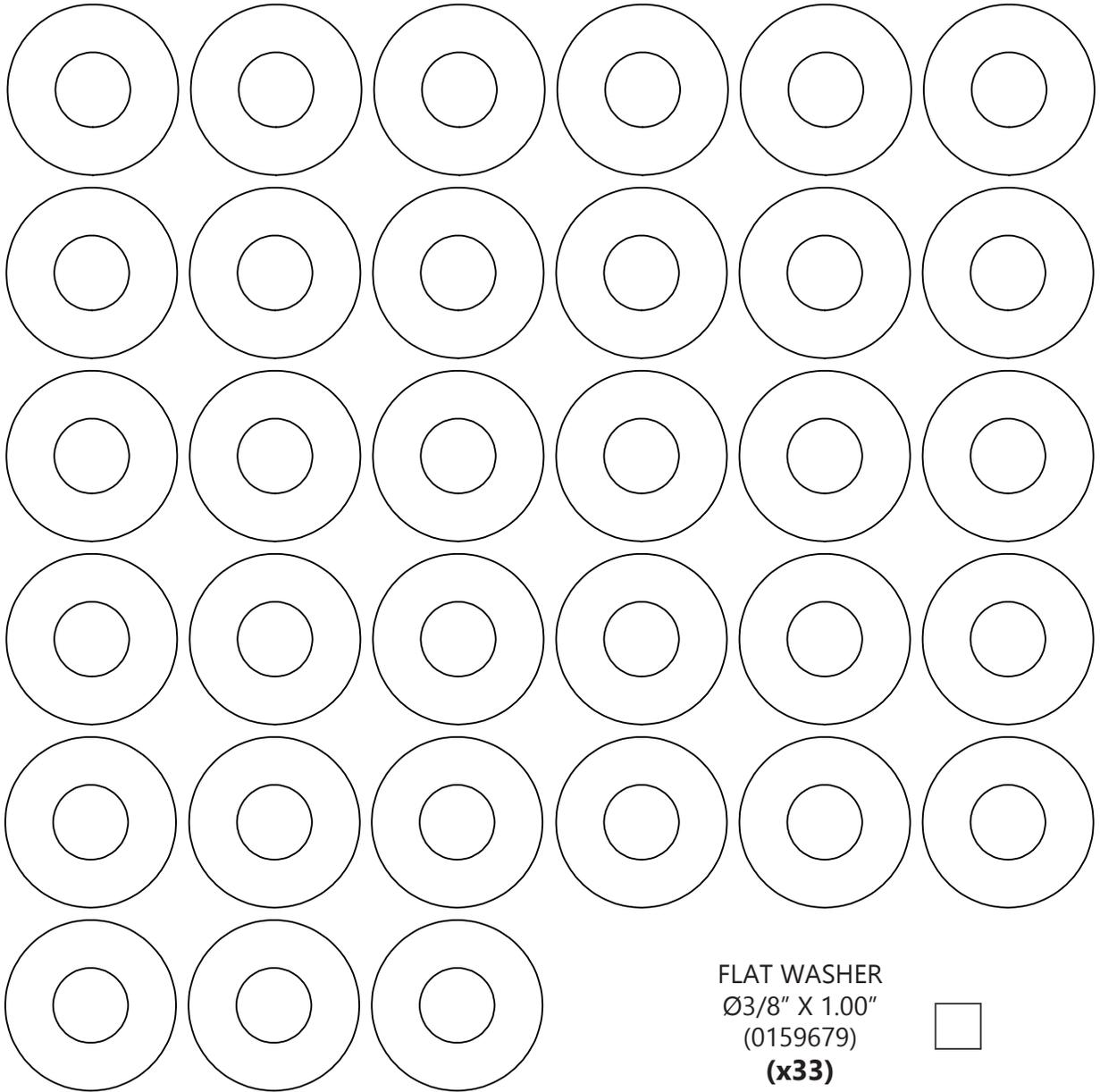


HEX BOLT 7/16-14 X 1.00"
(11105772)
(x8)

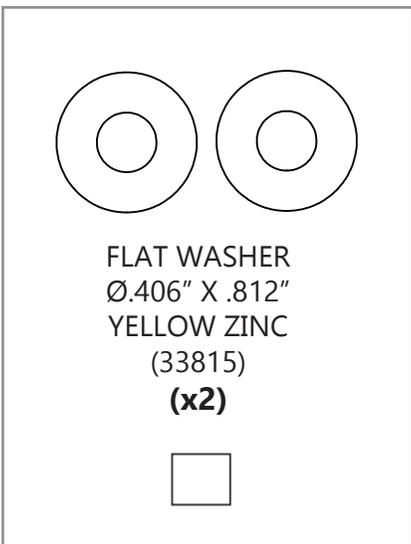


HEX BOLT 5/16-18 X 1.00"
(13055)
(x2)

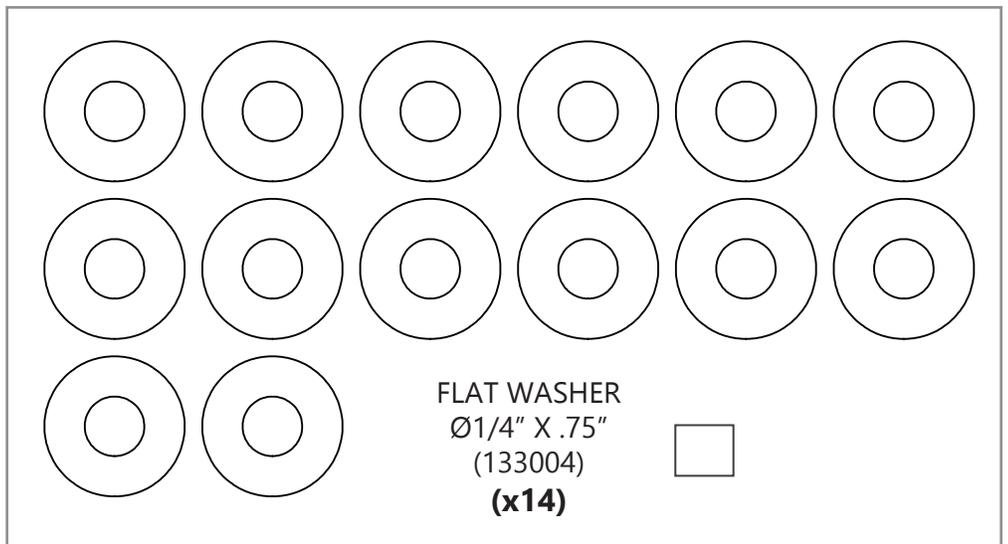




FLAT WASHER
Ø3/8" X 1.00"
(0159679)
(x33)



FLAT WASHER
Ø.406" X .812"
YELLOW ZINC
(33815)
(x2)



FLAT WASHER
Ø1/4" X .75"
(133004)
(x14)

