

Reinforcement Plate Installation Instructions

P/N 2106XX Jeep, Wrangler, JL, Reinforcement Plate

Before you begin:

- Stainless steel (SS) hardware may bind together when tightening apply an anti-seize assembly lubricant to the threads of each SS bolt before assembly.
- This installation may require two or more people

Required Tools:

- Metric Wrench Set
- Metric Socket set
- Torx bit set

Include Hardware:

P/N	Description	Quantity
70024	3/8-16, Nylock Nut, SS	8
70028	Washer, SS	12
70348	3/8-16 X 1 ¼" Carriage Bolt, SS	8
70356	Hex Head Bolt, M10 -1.5 X 60 mm, SS	4
70357	M10 Lock Washer, SS	4

Additional Parts Included:

PN	Description	Quantity	Picture
301611.2	Adjustable Back Spacing Bracket	1	
301611.3	Lug Nut and Camera Mount	1	
301617	Camera Housing	1	





Installation Instructions:

- 1. Remove the spare tire.
- 2. Unfasten the two torx bolts in the center using a T25.



Figure 1: Removing Torx Bolts

- 3. Push in the threaded studs, so that the threaded stud assembly falls into the tire carrier.
- 4. Push in the plastic camera housing behind tire carrier housing by applying pressure.
 NOTE: If it doesn't give wedge a flat head screw driver in between the tire carrier housing and tap out with a hammer.

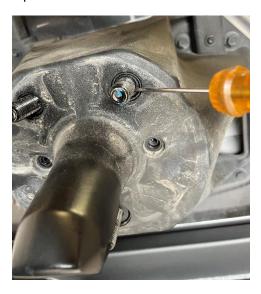


Figure 2: Wedging Flat Head In Camera Housing

5. Use a 13mm socket and remove the 8 bolts holding the tire carrier in place. Be careful to not let the tire carrier drop to avoid damaging the wiring harnesses.

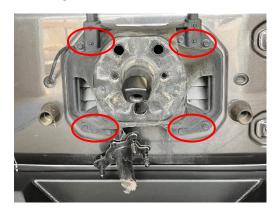


Figure 3 Removing Tire Carrier

6. Remove the 3 small torx screw holding the camera in place



Figure 4: Removing Camera From Housing

7. Remove the wiring harness from the camera, and set the camera aside.



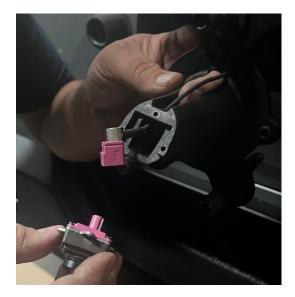


Figure 5: Disconnecting Wiring Harness From Camera

8. Remove the four torx bolts holding the brake light bracket to the tire mount. Then remove the seven torx bolts covering the wiring harness to the brake light.



Figure 6: Accessing 3rd Brake Light Wiring Harness

 Remove the brake light wiring harness, and place it aside with the camera wiring harness.
 NOTE: You might have to remove the torx bolts holding the camera to be able to get access to the harness clip.



Figure 7: Removing 3rd Brake Light Wiring Harness

10. Fasten the adjustable backspacing plate onto the reinforcement plate at the desired tire location using the 3/8" carriage bolts, washers and nylock nuts.

NOTE: The lowest tire setting is for a 33" tire and the highest setting is for a 37" tire.

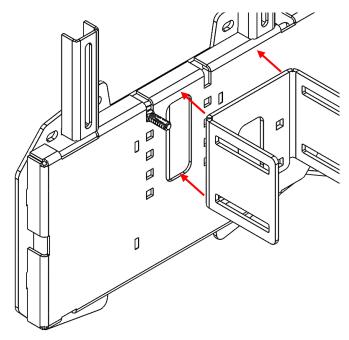


Figure 8: Installing Adjustable Back Spacing

11. Remove the hinge hardware using a T55 torx bit.

NOTE: The door will move, make sure it is shut and supported to minimize movement.



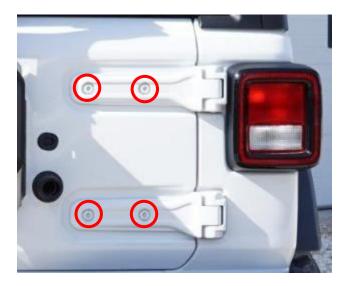


Figure 9: Removing Hinge Hardware

12. Feed the camera and brake light harness through the driver side port on the reinforcement plate.

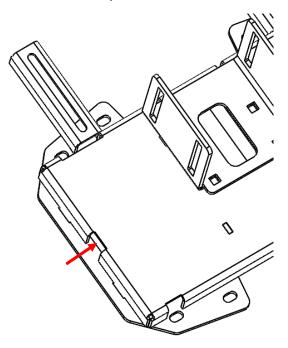


Figure 10: Wire Relocation Slot

- 13. Slide the Reinforcement plate over the factory vents and line up the mounting locations.
- 14. Replace the factory hinge hardware with the provided 10mm bolt, washer, and lock washer. Make sure that the tailgate remains in the same factory location.

- 15. Reuse the factory hardware and fasten the 8 bolts to hold the tire reinforcement in place.
- 16. Feed the wire housings through the appropriate slots as shown below.

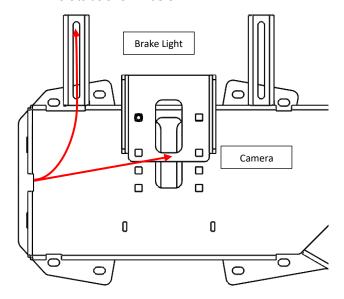


Figure 11: Wire Relocation Path

- 17. Reconnect the camera housing and fasten the camera using the small torx bolts
- 18. Assemble the camera housing as shown in the diagram below.

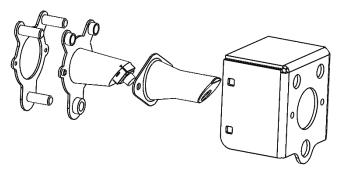


Figure 12: Camera Sub-Assembly

19. Reuse the torx bolts that were removed in step 2 and fasten the camera housing assembly.



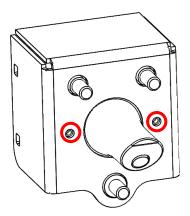


Figure 13: Tightening New Camera Sub-Assembly

20. Loosely fasten the new lug nut mount using four carriage bolts. Then, measure the backspacing of your spare tire and adjust the tire mount back spacing accordingly.



Figure 14: Measuring Backspacing

- 21. Once the backspacing is at the desired location fully tighten the carriage bolts using the 3/8 washers and nylock nuts.
- 22. Run the brake light wiring harness back to the third brake light assembly and cover up the exposed wiring using the torx bolts that were originally removed.
- 23. Slide the 3rd brake light assembly into the slots and using a washer and the factory hardware, fasten the assembly into place.

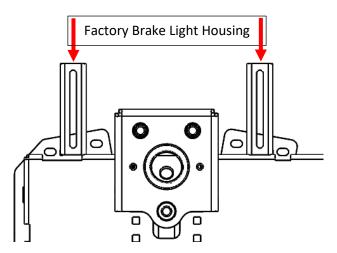


Figure 15: Installing Factory Brake Light Harness

24. Ensure all hardware is tightened, and snap in round plugs over the 10mm hardware holes.

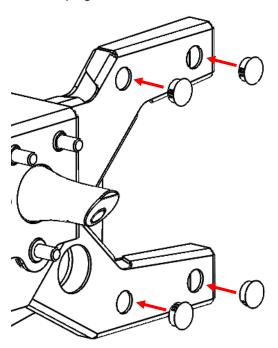


Figure 16: Capping off exposed hardware

25. Place spare tire onto tire carrier and tighten down. Ensure that there is contact between the spare tire, reinforcement plate and rubber stoppers.



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