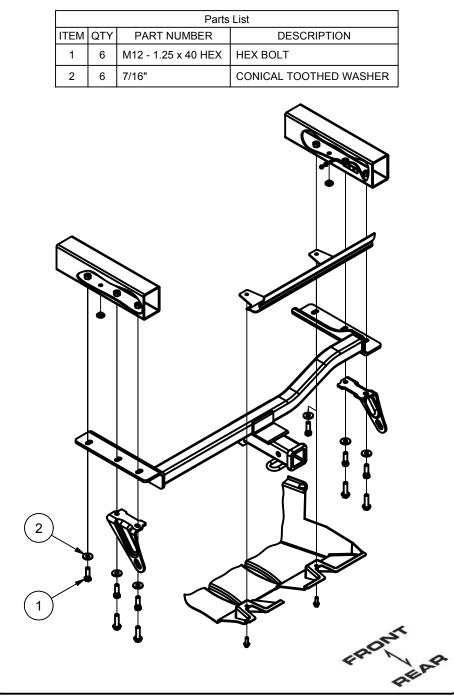


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1. Remove (13) fasteners that secure the lower fascia, using a flat blade screw driver and 10mm socket. Fastener (1) removal.





2. Fastener (2 and 3) removal.





3. Fastener (4 and 5) removal.



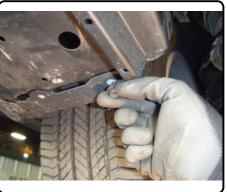
4. Fastener (6) removal. (First photo shows removal technique using flat blade screwdriver.)



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5. Fastener (7 and 8) removal.





6. Fastener (9) is hidden behind wheel well trim. Pull back wheel well trim and remove plunger style fastener.





7. Fasteners (10 and 11) removal.



8. Fasteners (12 and 13) removal. Unscrew fasteners, you may need to pull down on plastic to pop fascia free. Remove fascia and place in a safe area. Fascia will be reinstalled in step (17).



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9. Using a 17mm socket remove tow loops from the driver and passenger side frame rails.



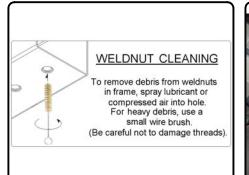


10. Remove hole plugs from the driver and passenger side frame rails. The second photo shows all the hardware that was removed.





11. Clean weld nuts if necessary. Raise hitch into position starting with the passenger side plate. Pull down on the exhaust and slide the passenger side plate into position. Align holes in the frame rails with the holes in the hitch.





12. Secure hitch and tow loops with supplied 12mm bolts and 7/16" conical toothed washers into weldnuts. <u>NOTE</u>: Tow loop reattachement is optional.





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13. Torque all 12mm fasteners to 60 ft-lbs.

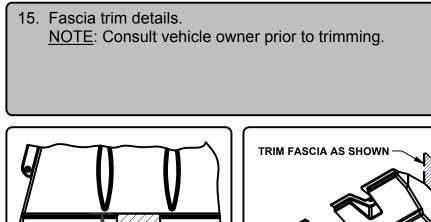


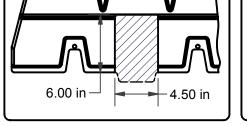


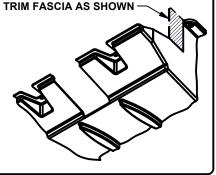
14. Installed hitch shown in proper position.











16. Using masking tape, layout the area to be trimmed, as shown. Use a rotary tool (or aviation shears) to trim the fascia.



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17. Raise fascia back into position, check for proper fit and clearance. If fascia doesn't fit properly trim and try again. Rettach fascia using existing hardware removed earlier. Return all unused hardware to vehicle owner.





18. Completed hitch installation shown.





TOWING SAFETY INFORMATION

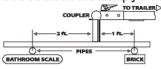
Gross Trailer Weight / GTW

The Gross Trailer Weight is the weight of the trailer & cargo. Measure this by putting the fully loaded trailer on a vehicle scale.



Tongue Weight / TW

The downward force that is exerted on the hitch ball by the coupler. The tongue weight will vary depending on where the load is positioned in relationship to the trailer axle(s). To measure the tongue weight, use either a commercial scale or a bathroom scale with the coupler at towing height. When using a bathroom scale with heavier tongue weights, use the method shown and multiply the scale reading by 3.

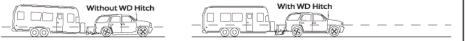


Weight Carrying / WC

The total weight of both the trailer and the cargo inside. Never exceed the weight capacity of your trailer hitch.

Weight Distribution / WD

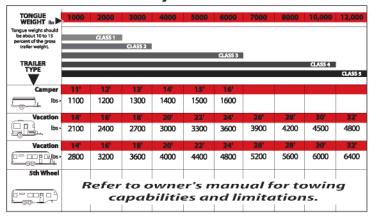
Used to balance the weight of the cargo between the front and rear wheels throughout the trailer, allowing for better steering, braking, and level riding.



Sway Control

A device used to reduce the lateral movements of the trailer that are caused by the wind. This works in conjunction with a weight distribution hitch. Do not use this on a class 1 or 2 hitch, or with surge brakes.

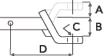
How Much Can You Safely Tow?



Ball Mount

The ball mount is placed inside the opening of the receiver hitch which is mounted to the vehicle. Make sure a hitch pin and clip is properly securing the ball mount to the receiver hitch before you begin towing.

A: Rise. B: Drop. C: Hole Size. D: Length.



Trailer Ball

The connection from the hitch to the trailer. There are many factors that determine the correct hitch ball:

- Number one is the hitch ball's gross trailer weightrating.
- The mounting platform must be at least 3/8" thick.
- The hole diameter must not be more than 1/16" larger than the threaded shank.
- · Every time you tow, check the nut and lock washer to make sure they are fastened securely.
 A: Ball Dia. B: Shank Dia. C: Shank Length. D: Shank Rise.

Coupler

The component that is placed over the trailer ball to connect the vehicle to the trailer. Be sure that the coupler size matches the size of the hitch ball and that the coupler handle is securely fastened. To determine what size hitch ball you need for your application you will need to know the size of coupler that is on the trailer. Be sure your coupler is properly adjusted to the ball you are using.

NOTE: For added security the use of safety devices such as Coupler Safety Pins and Locks is strongly recommended.

Safety Chains

Safety chains are a requirement and should be crossed under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Always leave enough slack so you can turn. Never allow the safety chains to drag on the ground and never attach the chains to the bumper.

Trailer Classification: Safety Chain Breaking Force - Minimum

Class 1: 2,000 lbs. (8.9 kN)

Class 2: 3,500 lbs. (15.6 kN)

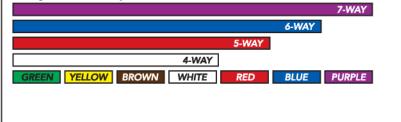
Class 3: 5,000 lbs. (22.2 kN)

The strength rating of each length of safety chain or its equivalent and its attachments shall be equal to or exceed in minimum breaking force the GVWR (Gross Vehicle Weight Rating) of the trailer.

Electrical

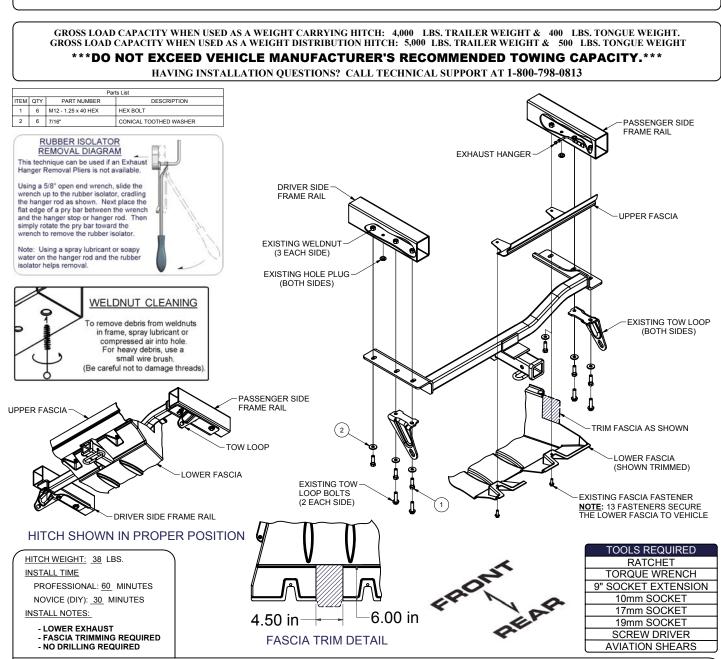
Trailer lights, Electric Brakes, Break-away systems - Every time you tow, be sure to check that all components are working properly.

Wiring identification by color:





LEXUS RX 350 & RX 450H



INSTALLATION STEPS

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NOTE: Tow loop rettachement is optional.

- 1. Remove lower fascia. NOTE: 13 fasteners secure the lower fascia to vehicle.
- 2. Lower exhaust if needed for ease of installation. Support exhaust as needed to prevent damage.
- 3. Remove existing hole plugs from frame rails as shown.
- 4. Remove existing tow loop fasteners and tow loops. Retain tow loops they will be reattached, return fasteners to owner.
- 5. Raise hitch and tow loops into position by aligning with existing weldnuts in frame. **NOTE: Hitch will be sandwiched between tow loops and frame rails.**
- 6. Secure hitch and tow loops with 12mm bolts and 7/16" conical toothed washers into existing weldnuts.
- 7. Torque all 12mm fasteners to 60 ft-lbs.
- 8. Reinstall exhaust
- 9. Trim lower fascia and reattach. (SEE FASCIA TRIM DETAIL)

PERIODICALLY CHECK THIS RECEIVER HITCH TO ENSURE THAT ALL FASTENERS ARE TIGHT AND THAT ALL STRUCTURAL COMPONENTS ARE SOUND.

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