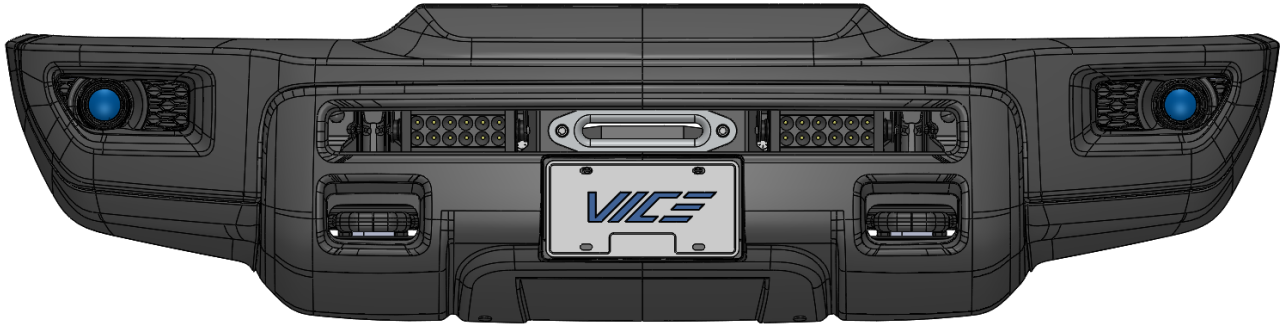


2019-2021 RAM WARLOCK INTEGRATED WINCH (W060) INSTALLATION INSTRUCTIONS



SAFETY

Your safety is extremely important to us. Working on vehicles has ever-present hazards which require precautions at all times to avoid injury or death. We've outlined some potential hazards below in order to help you make informed decisions about your safety before installing this product. This is not an exhaustive list, and you must use your own good judgment before performing any work in each step of this installation.

ALWAYS:

- wear eye protection
- use tire blocks and emergency brake
- disconnect battery(s)
- use care when moving components
- route electrical cables away from moving parts
- identify all pinch points
- wear gloves
- identify slipping and tripping hazards
- wear steel toe footwear
- understand proper use of tools before use
- work on a flat surface
- use care when lifting components
- insulate cables
- jack your vehicle from the OEM's lifting points
- torque all fasteners to suggested specs
- remove any hazards before starting on the job

LIABILITY

All liability for installation and use of this product rests with the owner. Improper installation, maintenance, and operation can result in serious injury or death as well as equipment or vehicle damage. Use this product at your own risk.

INSTALLATION PREPERATION

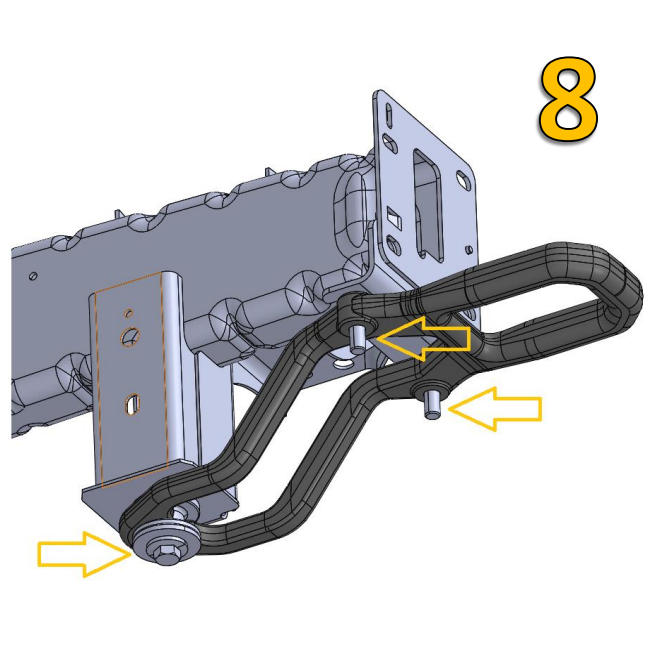
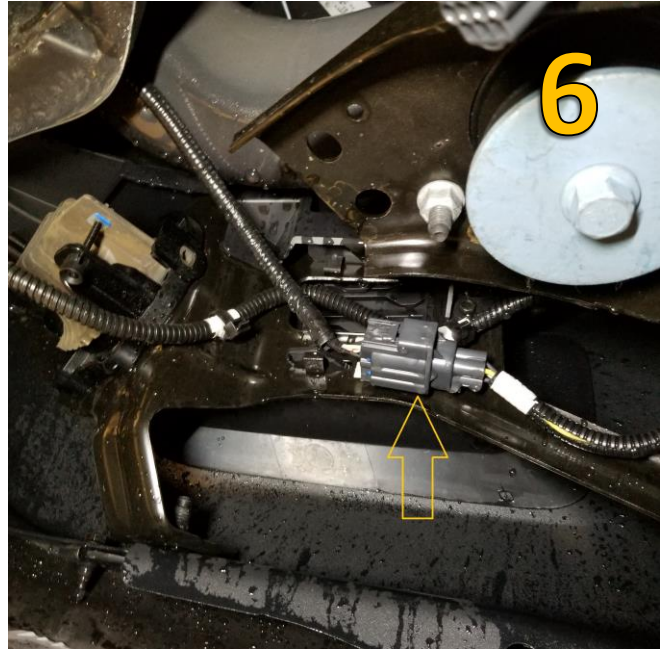
1. Read this entire document before performing any work.
2. Gather the tools required outlined in Table 1 below.

Table 1: Tools Required	
<input type="checkbox"/>	1/2", 3/8" and 1/4" drive socket wrenches
<input type="checkbox"/>	Metric and Imperial Socket and wrench set
<input type="checkbox"/>	Socket extensions (short and long)
<input type="checkbox"/>	18mm socket (deep and shallow)
<input type="checkbox"/>	3/4" socket (deep and shallow)
<input type="checkbox"/>	T45 Torx bit
<input type="checkbox"/>	8mm socket
<input type="checkbox"/>	Small Flathead or clip tool
<input type="checkbox"/>	Die Grinder or hand file
<input type="checkbox"/>	Electric Impact (optional)
<input type="checkbox"/>	Torque Wrench

3. Park your RAM Warlock on flat ground, engage the emergency brake, block the tires, and disconnect the negative battery terminal.
4. Remove the grill by undoing the top four (4) 10mm fasteners and two (2) 8mm fasteners along the side.

STOCK BUMPER REMOVAL

5. Remove the front wheel well liners that mount between your front tires and the front bumper. Each one requires the removal of three (3) 8mm fasteners, and two clips. Pop the center of the clip out to remove the clips from the frame.
6. Unplug the factory fog light harness located behind the driver's side fog light.
7. Remove the six (6) 18mm nuts that hold the factory bumper to the front of the frame. Remove the top two hard to access ones first, and then have someone hold and support the bumper while you remove the remaining 4 bolts on the bottom. You will need to use a combination of deep and shallow 18mm sockets and extensions to remove these. Place the bumper face down on a large piece of cardboard or cloth to protect the finish.
8. Remove the tow lug bolts by undoing the 18mm bolt that holds each one to the low hanging frame horn, as well as the two that hold it to the forward frame horn bracket. Place these aside



STOCK BUMPER ASSEMBLY

9. Remove the inner mounting structure from the bumper by removing all the T45 Torx fasteners. This is best accomplished using a cordless impact.
10. Remove the stock mounting hardware. From the hardware kit - Put **two** small square washers on each of the six 1/2" Black Grade 8 carriage bolts, install it into the bumper bracket in place of the OEM hardware, and hold the new fastener in place by push on a retaining washer. **Failure to install this stronger supplied hardware may result in catastrophic failure under strenuous winching conditions.**
11. Remove the plastic mesh in the bumper to make way for the fairlead by removing the 8mm fasteners, and plastic clips that hold it in place.
12. If you are installing our dual 6" lightbar kit, do this now. First attach the brackets to the bumper using the OEM bumper hardware, then attach the lightbar to the bracket. There is a left and right.
13. With the new 1/2" carriage bolts installed, reinstall the inner mounting structure to the bumper using the T45 Torx fasteners you removed in step 8.

INTEGRATED WINCH ASSEMBLY

14. Begin by installing the 3/8" bolts into the countersunk holes on the main integrated winch mounting bracket and then install the retaining washers on the other side (shown in figure). Note a 5/8" deep socket can be used to help push the retaining washers down to the base of the bolt.

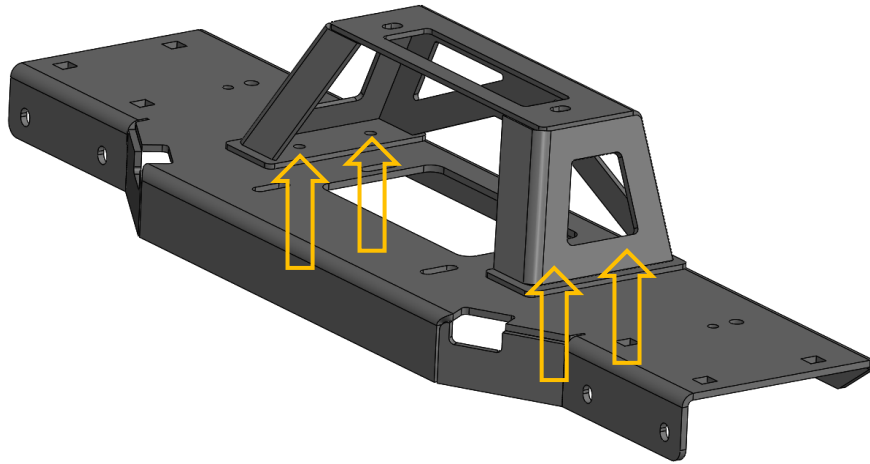
14

15. Assemble the integrated winch assembly by bolting the fairlead holder to the face of the winch mount with four (4) 3/8" x 1" bolts using washers, lockwasher, and nut. (figure on following page).
16. Install your winch to the backside of the Integrated Winch Assembly. Some winch models may require you to source longer hardware. If your hardware is too short - 5mm (for metric) or 1/4" (for imperial)

longer than the hardware your winch comes with is suggested. Replace hardware with the same grade or higher.

17. Pass winch line through the hawse fairlead, and bolt it onto the front of the winch mount assembly
18. Drop the 18mm bolts (U bolts) removed from the tow lugs in Step 7 into the bottom holes on the integrated winch assembly

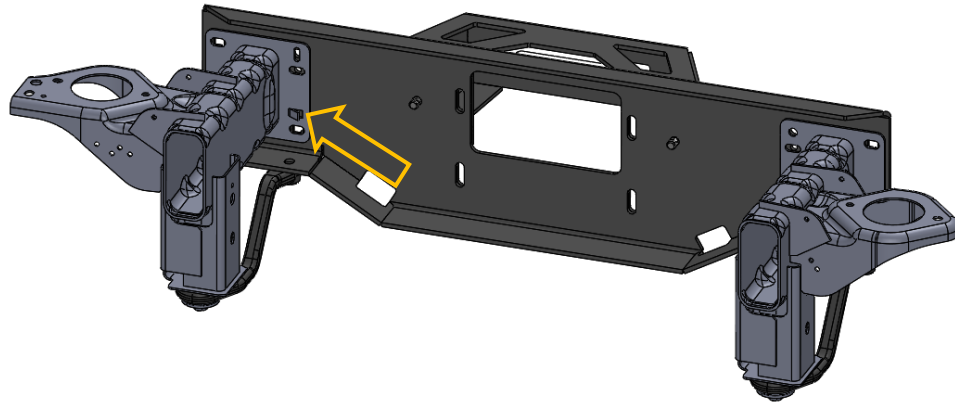
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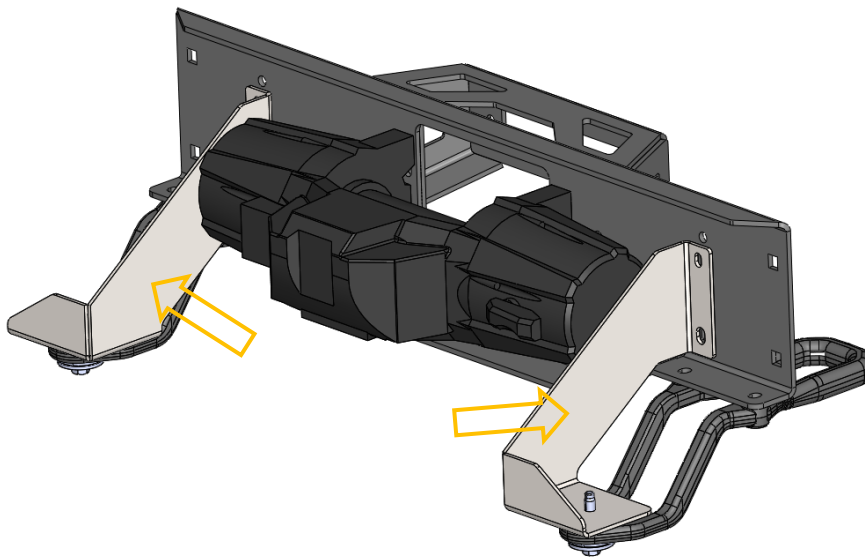
INTEGRATED WINCH INSTALLATION

19. Carefully lift the assembly onto the front of the truck, aligning the 3/8" threaded "studs" with the holes on the frame (shown in the figure). While you hold it in place, have a helper install one 18mm bolt and nut (that you removed from the bumper), on each side of the winch mount. This will secure it in place while you attach the brackets in the following steps.
20. Flatten the small tab on the frame mount (shown in the figure on following page) using a C-Clamp, to allow the Frame Reinforcement Brackets to be installed in the following step.

19



21. Install the passenger and driver side Frame Reinforcement Brackets onto the back of the frame horn over the 3/8" stud followed by a flat washer, lock washer and nut. Snug the nuts up tight enough that there is no slop in the connection, but so the bracket can still be moved around.

**20**

22. Install the factory tow hooks by passing the bolt through the frame reinforcement mounts and into the lower frame mount. Tighten tow lug bolts and nuts to **35-ft lbs**
23. With an allen key and 9/16" Socket, torque the 3/8" allen head cap screw to **30 ft-lbs**.
24. Spool your winch out and pass the hook through the opening of the front bumper.
25. With a helper, lift stock bumper into place. Have one person hold it against the winch mount while another puts 1/2" Washers over the new bumper bolts, followed by the flat washer, lock washer and nut. Align the bumper and tighten the nuts to **50 ft-LBS**
26. After 100 km of driving and after the first use of the winch, check all fasteners and re-torque the hardware in step 20, 21, and 23.