

MAXIMUS-3



JK WRANGLER

FRONT D-RING LOOPS

(Fits JK Wrangler with OEM Factory Hard Rock Steel Bumper)

THIS PRODUCT IS NOT COMPATIBLE WITH OFF CENTER WINCH SETUP
THIS PRODUCT IS DESIGNED TO WORK WITH MAXIMUS-3 HARD ROCK WINCH MOUNT ONLY

PART #: HR1023JB, HR1023JR, HR1022DR

INSTALLATION STEPS

Estimated Install Time: 1 Hour

PLEASE MAKE SURE YOU READ AND UNDERSTAND THE ENTIRE INSTALLATION GUIDE BEFORE YOU START.
WE EXPECT YOU TO HAVE BASIC MECHANICAL ABILITIES TO PERFORM THIS INSTALLATION.

WE RECOMMEND THAT YOU SEPARATE AND IDENTIFY ALL THE PARTS AND HARDWARE KITS YOU
RECEIVED WITH YOUR SHIPMENT BEFORE YOU PROCEED.



IMPORTANT

Follow these instructions precisely. Maximus-3 is not liable for any damage caused by improperly installed products. It is the purchaser's responsibility to ensure both the installation and maintenance are performed properly as set forth in this guide. We recommend using anti-seize paste on all non-thread lock bolts.

<u>Parts List:</u>	<u>Qty</u>
D-Ring Loop LHS	1
D-Ring Loop RHS	1

Hardware List:

M10 x 40 Hex Bolts	4
M10 Flat Washers	4



Tools Required:

- ✓ Your Basic Hand tools
- ✓ Metric Sockets: (15MM, 18MM, 19MM)
- ✓ Metric wrenches/spanners
- ✓ Driller and Drill Bits
- ✓ Hole-Saw Diameter 1.25" (31.75MM)
- ✓ Cut-off Wheel (Grinder)

INSTALLATION STEPS

1- REMOVE THE SKID PLATE.

- A. Using a 15 MM drive socket and ratchet remove the skid plate – there are seven (7) bolts to remove, 5 in front and 2 in the back.
- B. Remove the skid plate and place it on a protective surface to avoid surface damage.



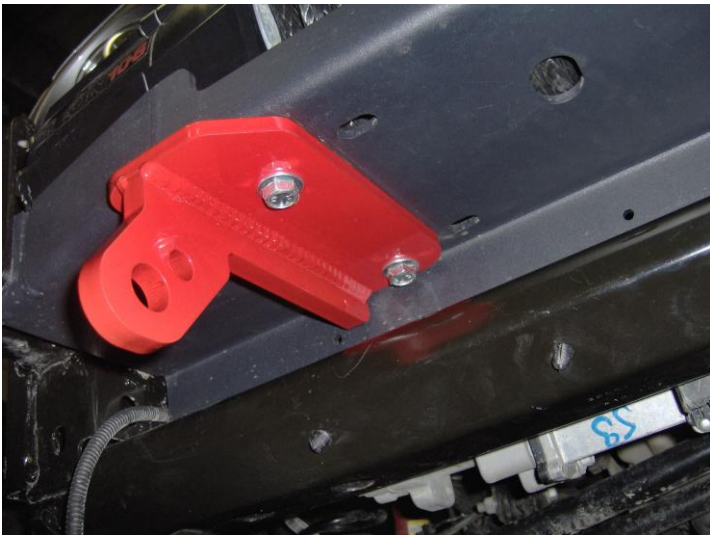
2- REMOVE THE FRONT BUMPER.

- A. Reach under the bumper and disconnect the fog lights wire connectors, both RHS & LHS.
- B. Using the 18 MM drive socket, short extension and ratchet remove the 8 bumper flange nuts – there are four (4) bolts holding the bumper on each side.
- C. Carefully remove the bumper and place it on a protective surface.



3- INSTALL YOUR MAXIMUS-3 D-RING LOOPS.

- A. Using a ratchet wrench (spanner), remove the winch mounting bolts – there are 4 bolts, 2 in the front and 2 in the back. Keep the winch alignment on the plate. Do not remove the nuts.
- B. Align the mounting holes on the D-Ring Loops to corresponding winch mounting holes on the winch plate and bolt to the winch through the winch plate using the new bolts and washers provided.
- Please refer to the pictures below. Note the Left Hand Side and the Right Hand Side brackets.



VERY IMPORTANT HINT:

- **For WARN Zeon 10s winch** do not tighten the bolts for now – leave just a bit loose as you may need to slide the winch from side to side when you come to re-assemble the bumper later.
- **For small body winches** tighten and torque all the 4 bolts - Torque to 30 – 35 (Ft.Lbs) on each bolt.

4- PREPARE THE BUMPER FOR INSTALL:

For Regular D-Ring Loops:

- A. Mark the center line of the bumper through the center of skid plate front mounting hole.
- B. On each Hand Side, mark a drill point 85 MM from the edge of the Bumper and 175 MM from the center line.
- C. Mark both sides with a center punch and drill out with a 1.25" Hole Saw.
- D. Using a Cut-off Wheel (Grinder) cut a slot to the tangents of the holes you just drilled out. Refer to the pictures below.
- E. De-burr with a file and paint the cut edges for rust protection.



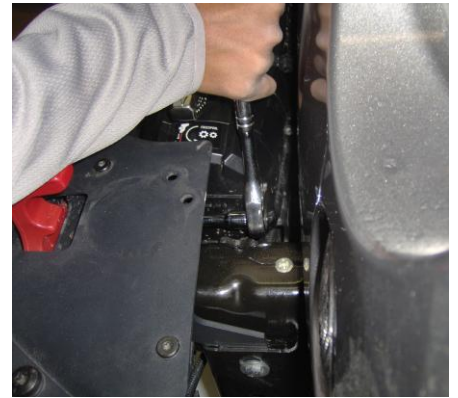
For D-Ring Loops with Hi-Lift Jack Points:

- F. Mark the center line of the bumper through the center of skid plate front mounting hole.
- G. On each Side, mark two (2) drill points 175 MM from edge of the bumper and 240 MM from the center line and 85 MM from bottom edge of the bumper.
- H. Mark with a center punch on both sides and drill out two (2) holes with a 1.25" Hole Saw.
- I. Using a Cut-off Wheel (Grinder) cut from bumper edge to tangents of the holes you drilled out to create a wide slot as shown by dotted white lines in the picture above.
- J. De-burr with a file and paint the cut edges for rust protection.

5- RE-ASSEMBLE THE BUMPER.

- A. Lift the bumper and carefully align and push the studs into their respective holes on the chassis frame – you may need a second person to help you align the holes.
- B. Slightly tilt the bumper forward for hand clearance and hand-start the eight (8) factory bumper nuts you removed in step (2).
- C. Tighten and torque all eight (8) bumper nuts using 18 MM socket drive ratchet, extensions and a universal joint (flexi socket extension) - You may need to use a long extension to tighten the driver side lower inner nut working from underneath the vehicle.

Torque to 66.5 Ft.Lbs (90 N.m) on each bolt.



If you are installing a Zeon winch, now adjust the winch position, tighten and torque the winch and D-Rings down using an open/box wrench or ratchet wrench - there are 2 bolts in front and 2 in the back. Torque to 30 - 35 (Ft.Lbs) on each bolt.

(9)- RE-ASSEMBLE THE SKID PLATE AND RECONNECT THE FOG LIGHTS:

Re-assemble the skid plate using the factory mounting bolts you removed in step (1) - there are 7 bolts. Reconnect the Fog Lights.



Your installation is complete. If you have questions regarding this installation, please contact us at sales@maximus-3.com or call 248-821-6654.