

INSTALLATION MANUAL

PRODUCT: FRONT ALUMINUM BUMPER

APPLICATION: JEEP WRANGLER JK (2007-2018)
JEEP WRANGLER JL (2018-PRESENT)
JEEP GLADIATOR JT (2019-PRESENT)

PART NO: 2D.2701.3-NL FULL WIDTH
2D.2702.3-NL STUBBY



CAUTION!

To reduce the risk of serious injury or damage to property: Before you start installing and using this product, read the full instructions, pay special attention to the conditions of safe use and recommendations for installation! When installing or maintaining this product, it is necessary to use protective goggles. Check the integrity of the structure and the moment the fastening is tightened every 250 miles (400 kms) of mileage. Do not use this product if there is damage to the structure or fasteners!

NOTICE

Skid plate is an additional protection, but it can not guarantee to protect against all possible damage in collisions. When driving, be careful of objects and terrain that may damage sensitive parts of the vehicle.

FRONT BUMPER

Part number:	2D.2701.3-NL (FULL WIDTH)
Suited to vehicle:	JEEP WRANGLER JL 2018-PRESENT JEEP WRANGLER JK 2007-2018 JEEP GLADIATOR JT 2019-PRESENT
Material:	Aluminum/Steel
Part number:	2D.2702.3-NL (STUBBY)
Suited to vehicle:	JEEP WRANGLER JL 2018-PRESENT JEEP WRANGLER JK 2007-2018 JEEP GLADIATOR JT 2019-PRESENT
Material:	Aluminum/Steel



SAFETY NOTICE

- * The RIVAL Bumper is designed to compliment the use and design of the specified vehicle under conditions specified by the vehicle manufacturer.
- * While driving the vehicle at any speed, collision with any other vehicle, animal or object must always be avoided.
- * Following any collision with any other vehicle, animal or object, the RIVAL Bumper and the vehicle must be inspected by a specialized or suitably qualified vehicle repairer for possible damage to the components and assemblies in order to confirm suitability for further use of the vehicle.
- * It is strongly recommended that you do not operate a vehicle with a damaged bumper or its components. In the case of damage, please contact the nearest RIVAL dealer. Vehicle, or where the bumper has been damaged, is extremely dangerous and must be avoided at all cost.
- * The operation of a vehicle where the bumper is not properly attached and fastened to the vehicle, or where the bumper has been damaged, is extremely dangerous and must be avoided at all cost.
- * It is recommended that you carry out regular inspections of all the bumper elements such as all bolts, wires, connectors.
- * A winch with a pull capacity of up to and including 12000 lb can be installed with the RIVAL Bumper. It is not advisable to exceed this pulling capacity since damage, injury or death may occur where the 12000lb recommended capacity is exceeded. The Rival bumper provides standard 4 1/2"x10" mounting holes.

INSTALLATION NOTICE

- * Personal safety during the installation process must be adhered to at all times.
- * Estimated time for installation: 4 hours.
- * The RIVAL Bumper must be mounted and affixed to the vehicle according to this installation manual and the use of personal safety equipment is highly recommended.
- * Do not install this bumper on vehicle models other than those allowed in this manual.
- * Check state and local highway safety laws regarding permitted bumper types and heights.

NOTE: if the bumper is to be color coded it is advised to test fit before color coding. RIVAL is not liable for color coding cost, it is the installers' responsibility to check the fitment and alignment before color coding.

ADR69 AND AIR BAG SYSTEM

The Rival bumper has been tested and certified to be compatible with ADR69 and will not affect the operation of the Air bag System on this vehicle. This product or mounting brackets must not be modified in any way, and must be fitted in accordance with the installation instructions.

REQUIRED TOOLS

- * Basic tool kit
- * Torque wrench
- * Crosspoint and flat head screwdriver

TORQUE SETTING

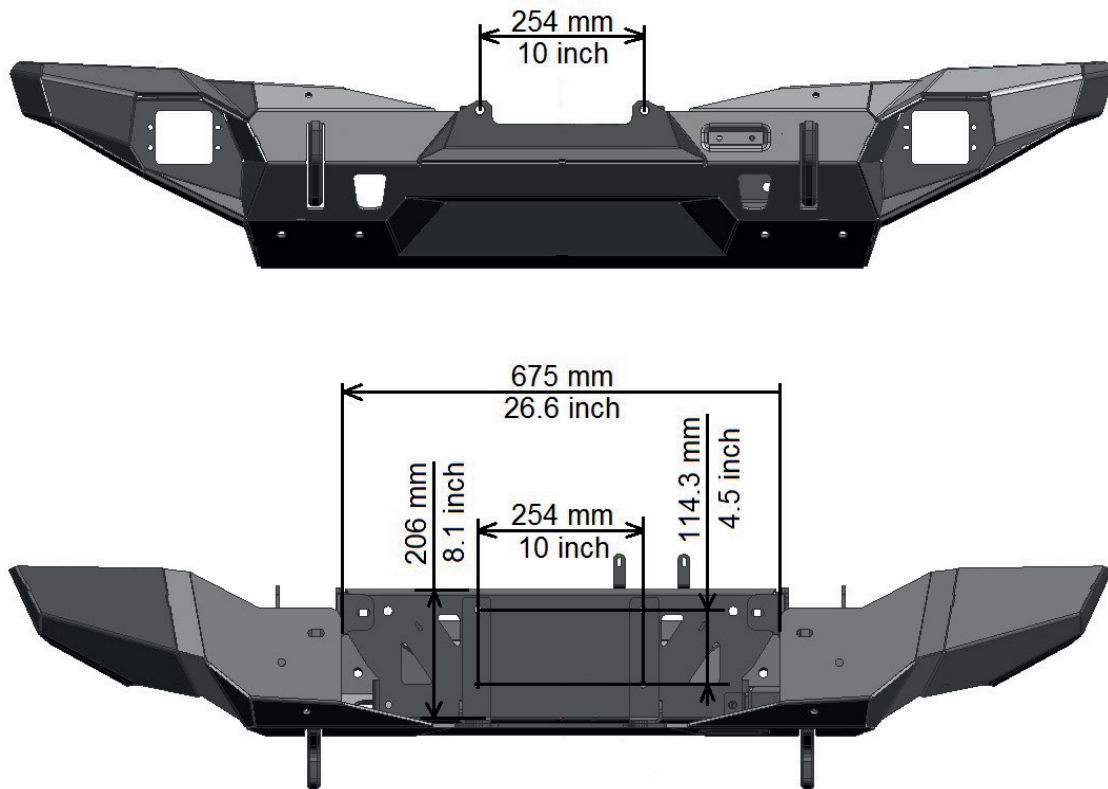
- * M6 - 9 N·m
- * M8 - 24 N·m
- * M10 - 44 N·m
- * M12 - 77 N·m

TECHNICAL INFORMATION

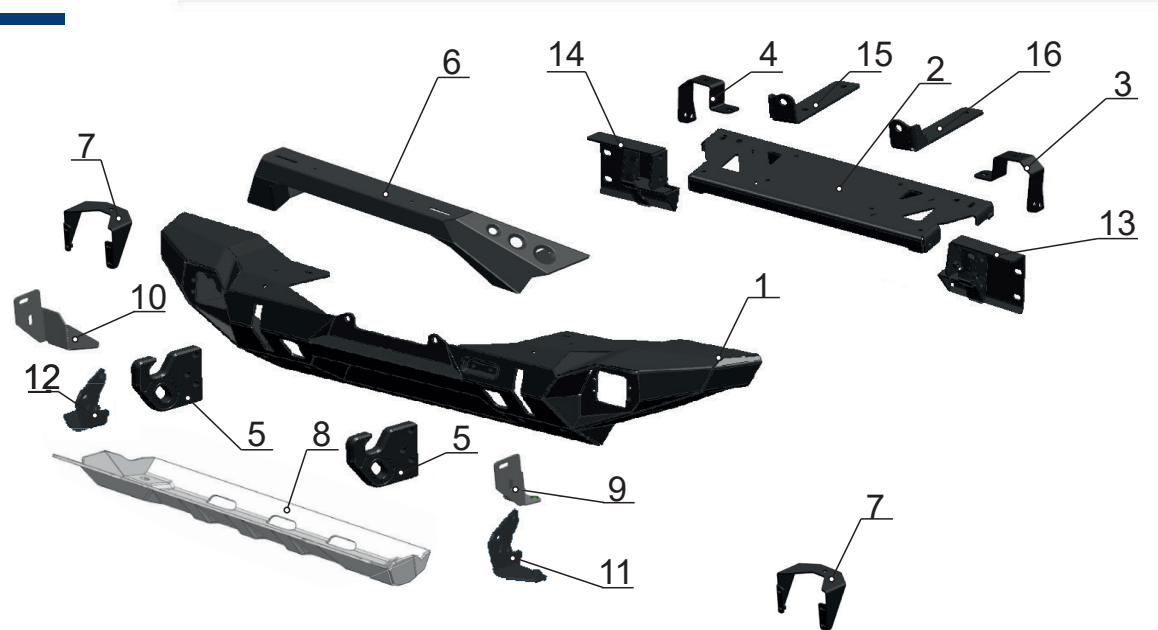
* WINCH INSTALLATION

A winch with a pull capacity of up to 12000 lbs can be installed with the RIVAL Bumper. It is not advisable to exceed this pulling capacity since damage, injury or death may occur where the 12000 lbs recommended capacity is exceeded.

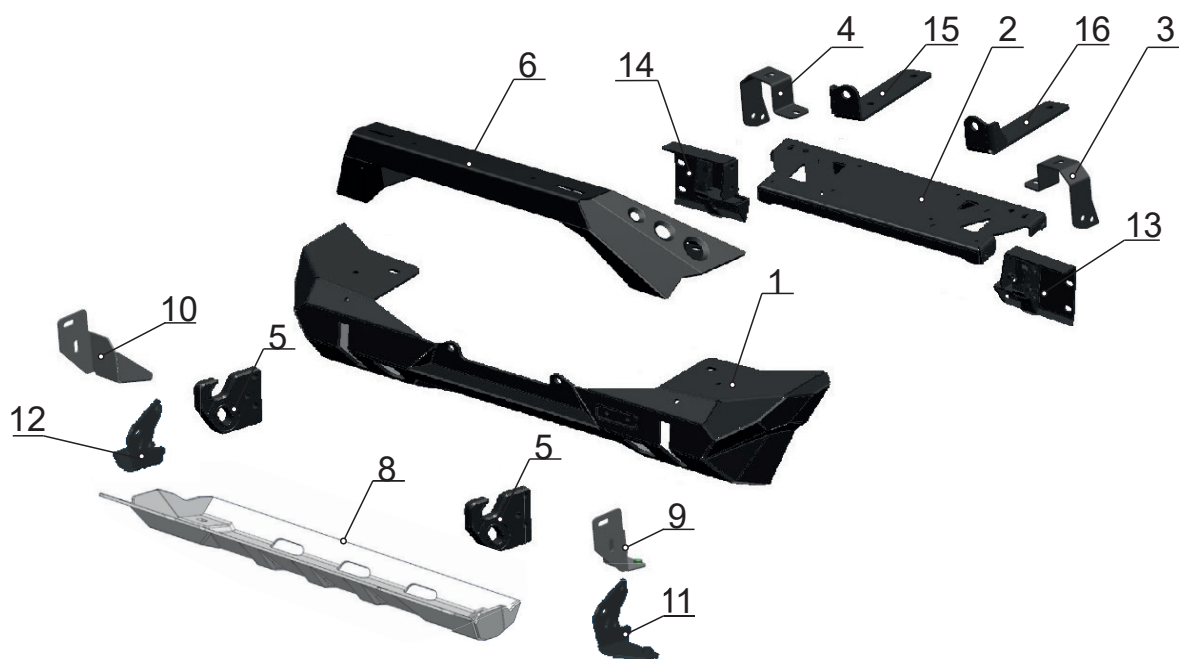
WINCH MEASUREMENTS:



PARTS LISTING



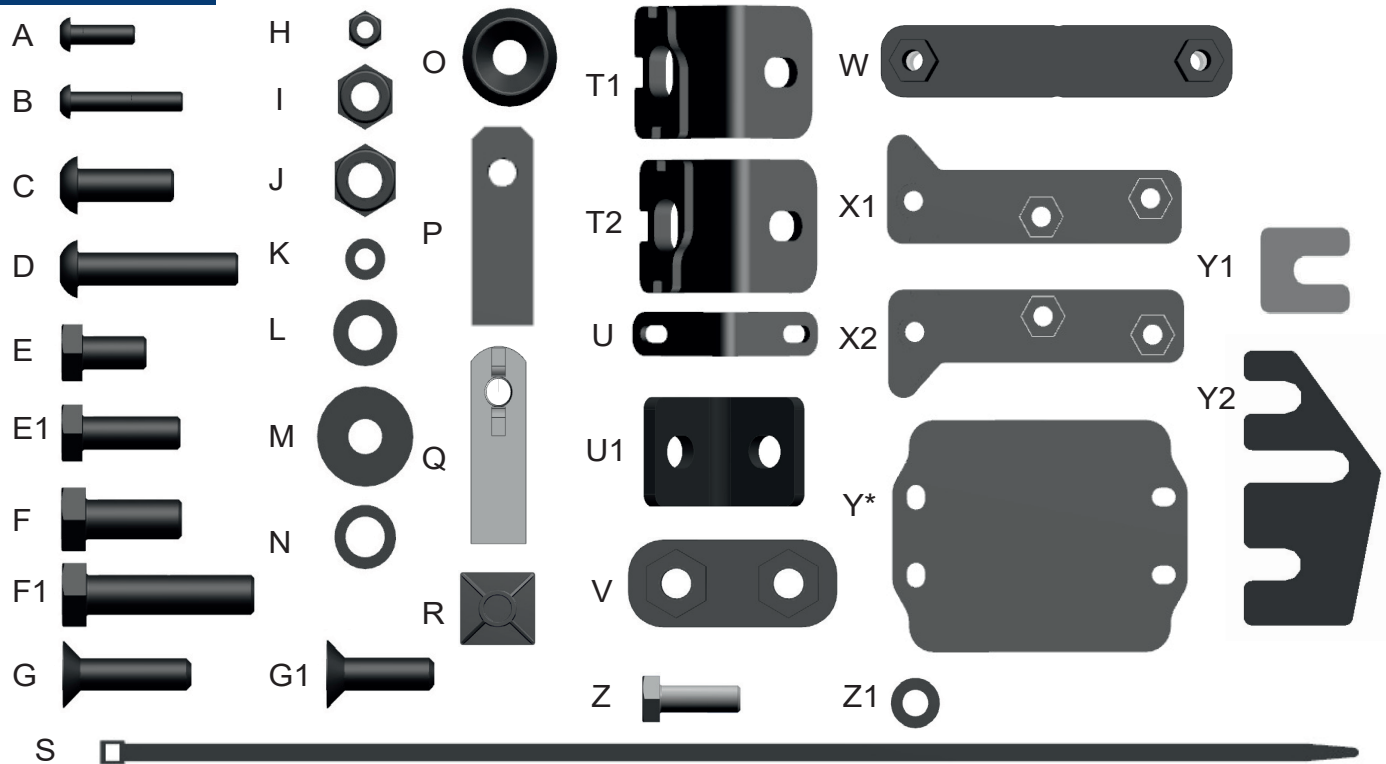
Front full width bumper 2D.2701.3-NL



Front stubby bumper 2D.2702.3-NL

1. Aluminum bumper body.....	Qty 1	9. Skid plate bracket left (JK).....	Qty 1
2. Winch bracket.....	Qty 1	10. Skid plate bracket right (JK)....	Qty 1
3. Left adapter.....	Qty 1	11. Skid plate bracket left (JL,JT)..	Qty 1
4. Right adapter.....	Qty 1	12. Skid plate bracket right (JL,JT)	Qty 1
5. Tow hooks.....	Qty 2	13. Right bracket.....	Qty 1
6. Lightbar.....	Qty 1	14. Left bracket.....	Qty 1
7. LED brackets.....	Qty 2	15. Fairlead right bracket.....	Qty 1
8. Skid plate.....	Qty 1	16. Fairlead left bracket.....	Qty 1

PARTS LISTING



*Included only in 2D.2701.3-NL full width bumper

2D.2701.3-NL full width bumper

A. Screw M6x20.....	Qty 10	P. Insert nut M10x65/20.....	Qty 6
B. Screw M6x35.....	Qty 2	Q. Insert nut M10 with cables.....	Qty 2
C. Screw M10x30.....	Qty 6	R. Cable clips.....	Qty 5
D. Screw M10x50.....	Qty 2	S. Cable tie.....	Qty 6
E. Bolt M10x20.....	Qty 12	T1. Angle strut bracket right (JL,JT).....	Qty 1
E1. Bolt M10x30.....	Qty 10	T2. Angle strut bracket left (JL,JT).....	Qty 1
F. Bolt M12x30.....	Qty 8	U. Vacuum pump bracket.....	Qty 2
F1. Bolt M12x50.....	Qty 6	U1. Angle strut bracket.....	Qty 2
G. Screw M10x40.....	Qty 4	V. Insert nut M10.....	Qty 2
G1. Screw M10x30.....	Qty 2	W. Insert bracket.....	Qty 2
H. Nut M6.....	Qty 4	X1. Insert bracket left (JK).....	Qty 1
I. Nut M10.....	Qty 12	X2. Insert bracket right (JK).....	Qty 1
J. Nut M12.....	Qty 8	Y. LED light cap.....	Qty 2
K. Washer 6.....	Qty 16	Y1. Adjustment plate 2mm	Qty 6
L. Washer 10.....	Qty 38	Y2. Adjustment plate 2mm	Qty 6
M. Flat washer 10	Qty 4	Z. Bolt M8x30.....	Qty 4
N. Washer 12.....	Qty 22	Z1. Washer 8.....	Qty 4
O. Countersunk washer.....	Qty 6		

2D.2702.3-NL stubby bumper

A. Screw M6x20.....	Qty 2	O. Countersunk washer.....	Qty 6
B. Screw M6x35.....	Qty 2	P. Insert nut M10x65/20.....	Qty 6
C. Screw M10x30.....	Qty 6	Q. Insert nut M10 with cables.....	Qty 2
D. Screw M10x50.....	Qty 2	R. Cable clips.....	Qty 5
E. Bolt M10x20.....	Qty 12	S. Cable tie.....	Qty 6
E1. Bolt M10x30.....	Qty 10	T1. Angle strut bracket right (JL,JT).....	Qty 1
F. Bolt M12x30.....	Qty 8	T2. Angle strut bracket left (JL,JT).....	Qty 1
F1. Bolt M12x50.....	Qty 6	U. Vacuum pump bracket.....	Qty 2
G. Screw M10x40.....	Qty 4	U1. Angle strut bracket.....	Qty 2
G1. Screw M10x30.....	Qty 2	V. Insert nut M10.....	Qty 2
H. Nut M6.....	Qty 4	W. Insert bracket.....	Qty 2
I. Nut M10.....	Qty 12	X1. Insert bracket left (JK).....	Qty 1
J. Nut M12.....	Qty 8	X2. Insert bracket right (JK).....	Qty 1
K. Washer 6.....	Qty 16	Y1. Adjustment plate 2mm	Qty 6
L. Washer 10.....	Qty 38	Y2. Adjustment plate 2mm	Qty 6
M. Flat washer 10	Qty 4	Z. Bolt M8x30.....	Qty 4
N. Washer 12.....	Qty 22	Z1. Washer 8.....	Qty 4

INSTALLATION PROCEDURE

Preparation for installation

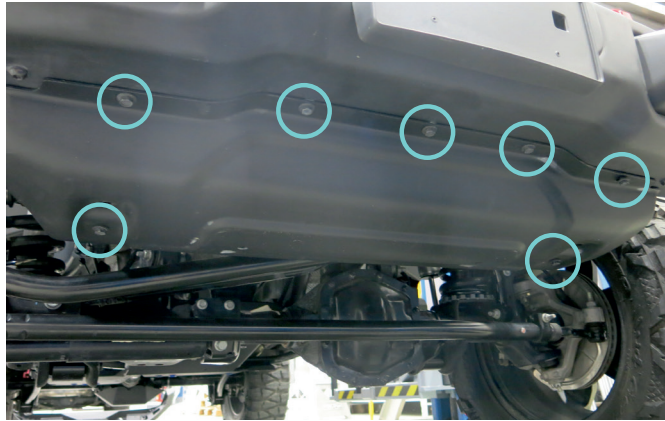


Fig. 1

1. Remove 7 bolts securing steering skid plate. Uninstall skid plate. Fig. 1.

Preparation for installation on Wrangler JL, JK, Gladiator JT (except Mojave) (steps 2-3)

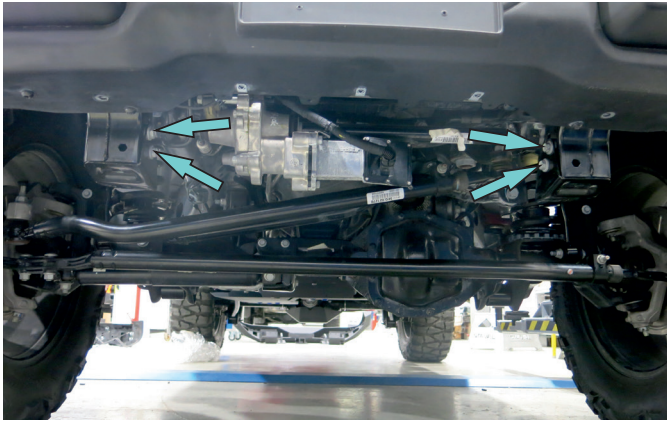


Fig. 2

2. Unscrew 2 bolts (on each side) securing skid plate brackets. Fig. 2.

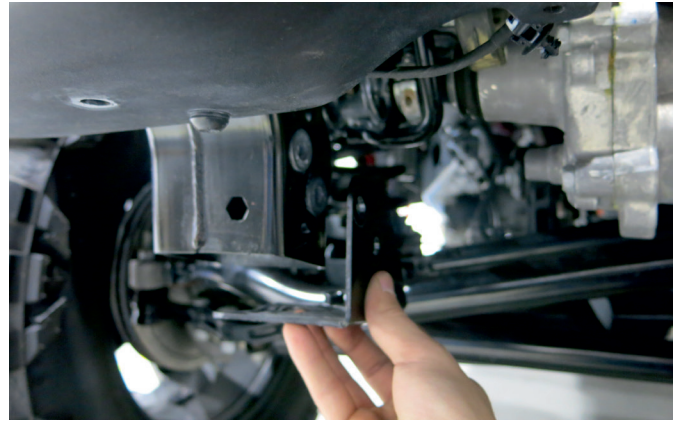


Fig. 3

3. Remove factory skid plate brackets. Fig. 3.

Preparation for installation on Gladiator JT Mojave (steps 4-7)

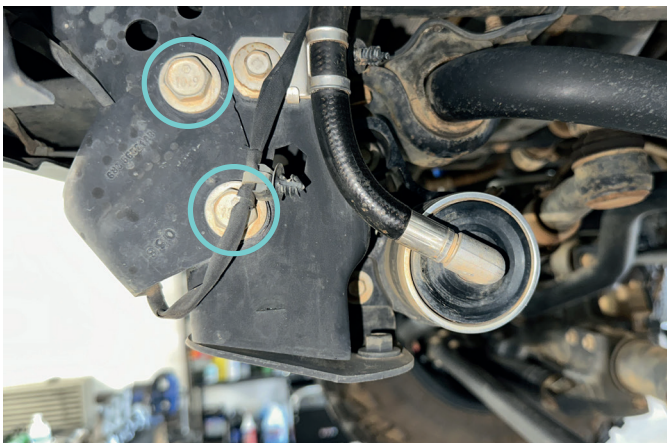


Fig. 4

4. Remove factory brackets as shown in fig.4.

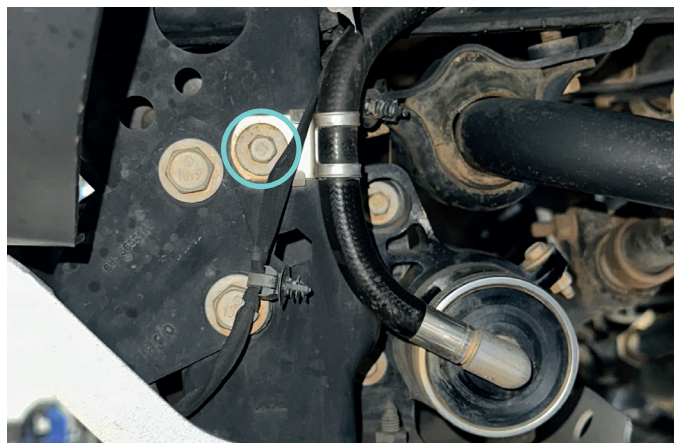


Fig. 5

5. Remove the bolts as shown in fig.5.

INSTALLATION PROCEDURE

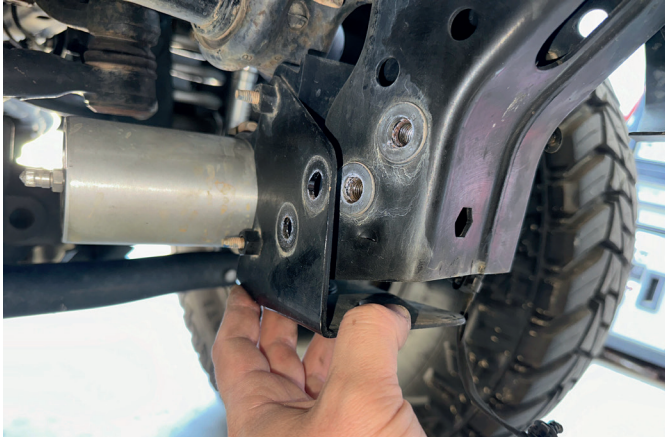


Fig. 6

6. Remove the factory brackets as shown in fig.6.



Fig. 7

7. Unscrew the factory bolts and remove the factory brackets as shown in fig.7



Fig. 8

8. Remove fascia plate trim clips. Fig. 8.



Fig. 9

9. Remove plastic push clips using a small feather edge screwdriver. Fig. 9.

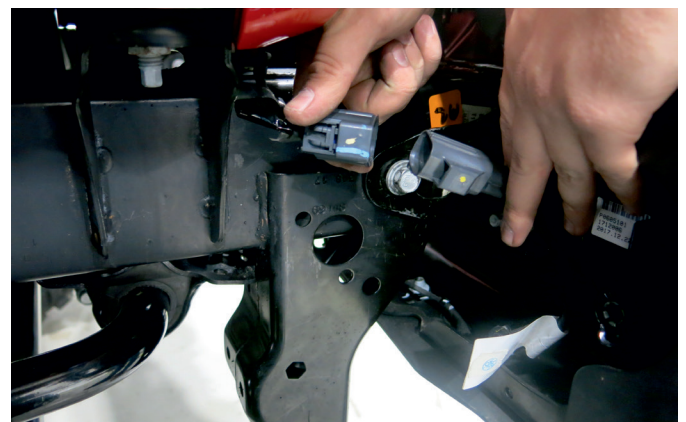


Fig. 10

10. Disconnect the fog light wire harness. Fig. 10.

INSTALLATION PROCEDURE



Fig. 11

11. Unscrew 8 nuts from the factory bumper (four on each side). Remove factory bumper, remove horn. Fig. 11 (on Wrangler JK only).

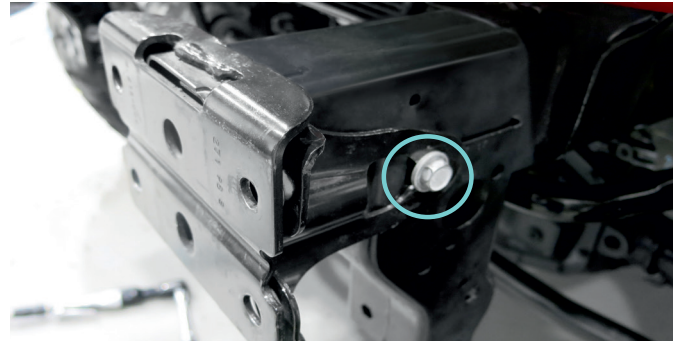


Fig. 12

12. Remove 4 pcs frame reinforcement (two on each side) by unscrewing factory bolts. Set bolts aside for re-use later on. Fig. 12.

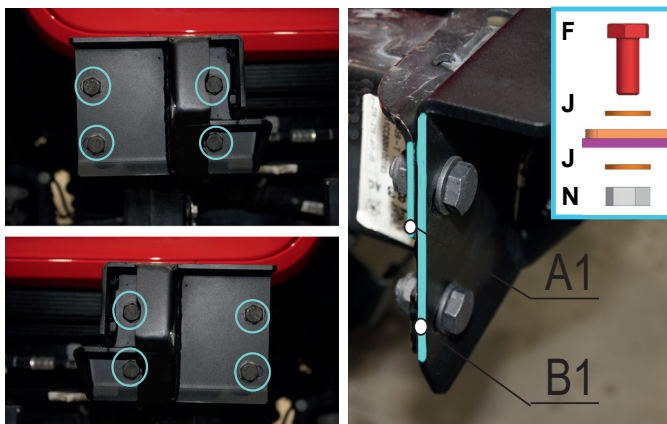


Fig. 13

13. Install left bracket (item 13) and right bracket (item 14) on the frame. Align parallelly edges of brackets (B1 on fig. 12) and edges of frame (A1 on fig. 9). Fix brackets (item 13 and 14) using bolts M12 (item F), nuts M12 (item J) and washers 12 (item N). Fig. 13.

***Tighten hardware after that.**



Fig. 14

14. Install insert nuts (item Q) into adapters (item 3,4). Unbend the wire. Fig. 14.

Winch bracket installation on Wrangler JK (steps 15-23)

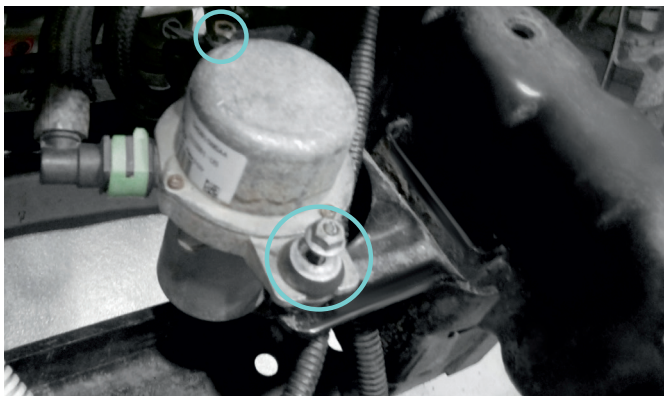


Fig. 15

15. Unscrew vacuum pump nuts and remove vacuum pump. Fig. 15.

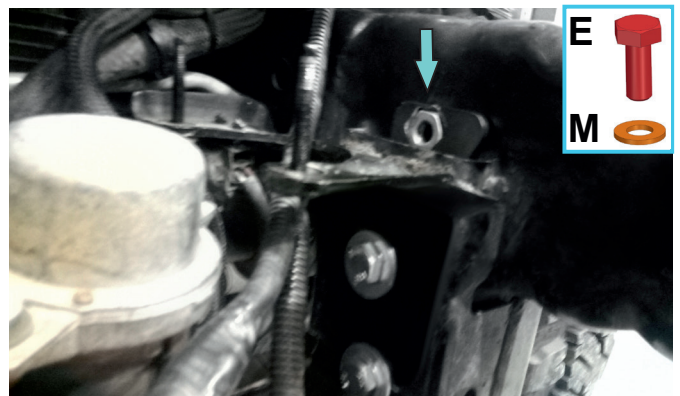


Fig. 16

16. Install insert brackets (item X1,X2) and fix it using bolts M10x20 (item E) and flat washers 10 (item M) on both sides. Fig. 16.

***Do not tighten yet.**

INSTALLATION PROCEDURE

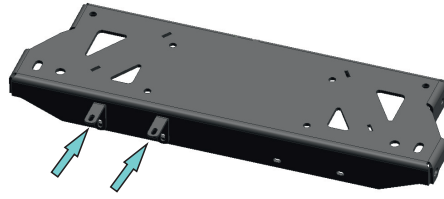


Fig. 17

17. Install vacuum pump brackets (item U) on the winch bracket (item 2) using screws 6x20 (item A), washers 6 (item K) and nuts M6 (item H). Fig. 17.

***Tighten hardware after that.**



Fig. 18

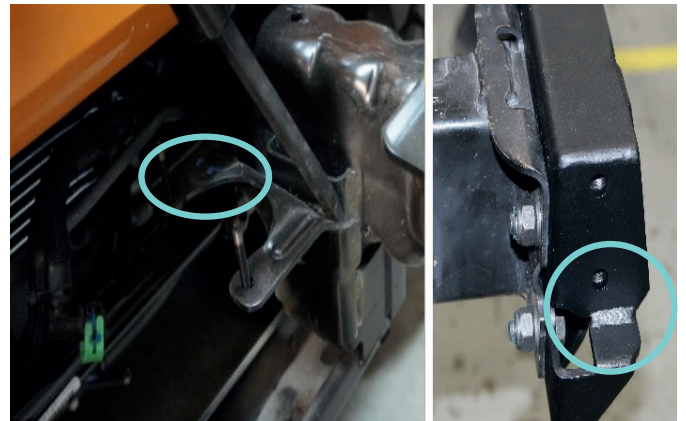


Fig. 19

18. Fix winch bracket (item 2) to the vehicle as shown in fig. 18 on brackets shown in fig. 19.



Fig. 20

19. Fix the winch bracket (item 2) with brackets (item X1,X2) from the inside using bolts M10x30 (item E1), washers 10 (item L). Fig. 20.

***Do not tighten yet.**



Fig. 21

20. Install adapters (item 3,4). Fix it to the frame using bolt M10x20 (item E), washer 10 (item L) and insert nut (item P). Fig.21.

***Tighten hardware after that.**

INSTALLATION PROCEDURE

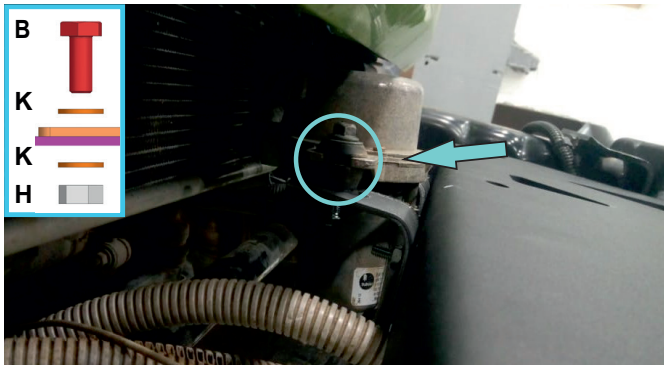


Fig. 22

21. Install vacuum pump on the bracket, preventing contact with radiator. Fix it using bolts M6x35 (item B), washers 6 (item K) and nuts M6 (item H). Fig. 22.

***Tighten hardware after that.**

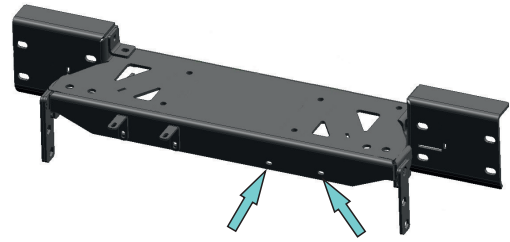


Fig. 23

22. Install horn using factory bracket and bolts M10x20 (item E), washers 10 (item L) and nuts M10 (item I). Fig. 23.

***Tighten hardware after that.**

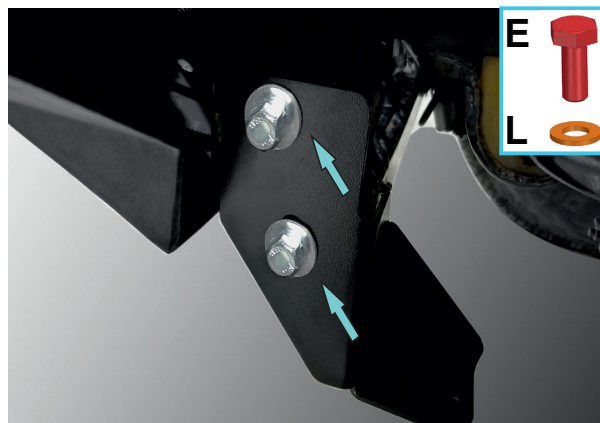


Fig. 24

23. Install skid plate brackets (item 9,10) using bolts M10x20 (item E), washers 10 (item L) and insert nut M10x65/20 (item P) on both sides. Fig. 24.

Winch mount installation on Wrangler JL, Gladiator JT (steps 24-29)

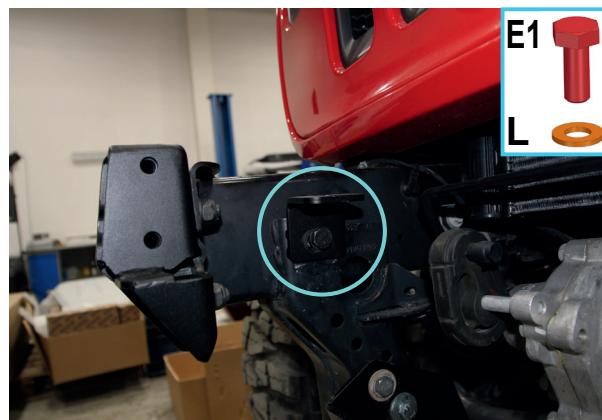


Fig. 25

24. Install adapters (item T1,T2). Insert bolts M10x30 (item E1) with washers (item L) onto winch bracket as shown on fig. 25.

***Do not tighten yet.**

INSTALLATION PROCEDURE



Fig. 26



Fig. 27

25. Fix winch bracket on the vehicle as shown on fig. 26, on brackets shown in fig. 27.

Skid plate brackets installation on Wrangler JL, Gladiator JT (except Mojave) (step 26)

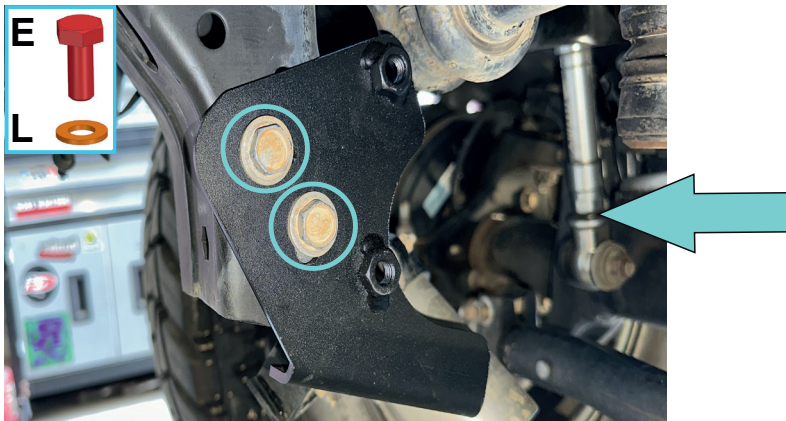


Fig. 28

26. Install skid plate brackets (JL,JT) (item 11,12) using bolts M10x20 (item E) and washers 10 (item L). If you don't have cage nuts in the frame, then use insert brackets M10 (item V). Fig. 28.
***Tighten hardware after that.**



Skid plate brackets installation on Gladiator JT Mojave (steps 27-29)



Fig. 29

27. Fix tube bypass shocks to skid plate brackets (JL,JT) (item 11,12) using bolts M8x30 (item Z) with washers 8 (item Z1) as shown in fig.29.

***Tighten hardware after that.**

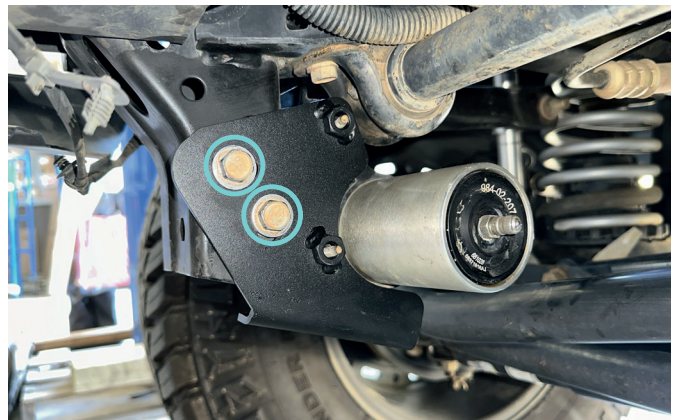


Fig. 30

28. Fix skid plate brackets (JL,JT) (item 11,12) with tube bypass shocks using factory bolts as shown in fig.30.

***Tighten hardware after that.**

INSTALLATION PROCEDURE

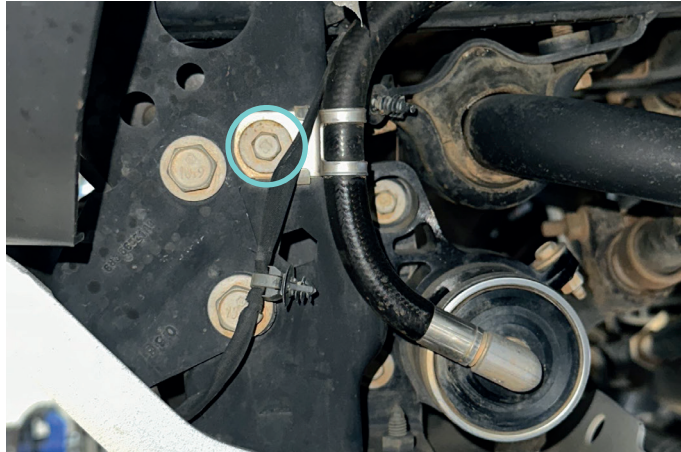


Fig. 31

29. Fix the tube to vehicle using factory bolts as shown in fig.31.

***Tighten hardware after that.**

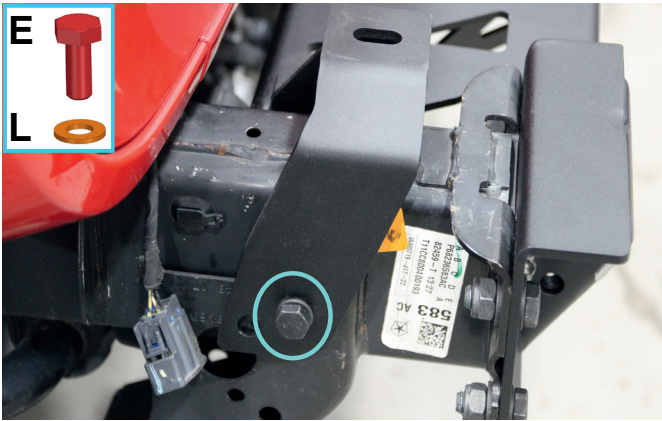


Fig. 35

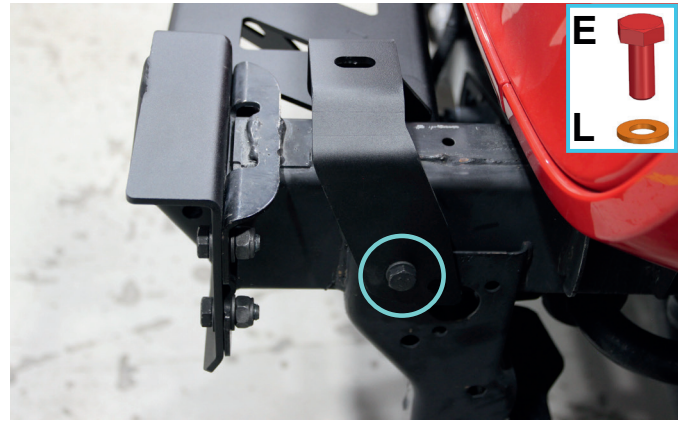


Fig. 36

30. Install adapters (item 3,4). Insert bolts M10x30 (item E1) with washers (item L) onto winch bracket as shown on fig. 35, 36.

***Do not tighten yet.**

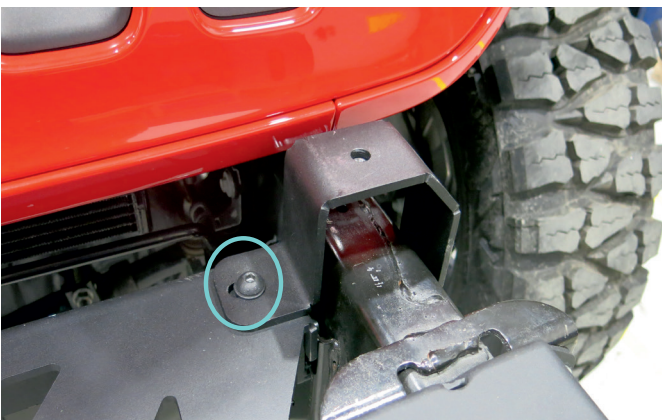


Fig. 37



Fig. 38

31. Install left and right adapters (item 3 and 4) using screws M10x30 (item C), washers 10 (item L) and nuts M10 (item I). Fig. 37, 38.

***Do not tighten yet.**

INSTALLATION PROCEDURE

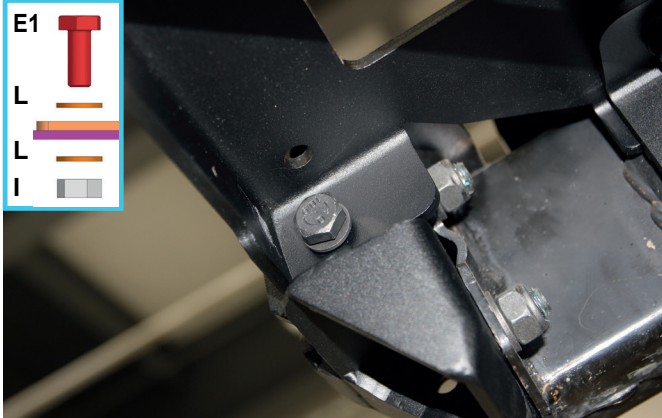
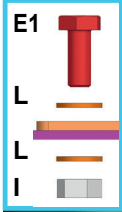


Fig. 39



Fig. 40

32. Fix winch bracket using bolts M10x30 (item E1), nuts M10 (item I) and two washers 10 (item L). Fig. 39, 40.

***Do not tighten yet.**



Fig. 41



Fig. 42

33. In case of gap between winch bracket (item 2) and left and right brackets (item 13, 14) place adjustment plates (item Y1) into this gap as shown in fig. 41, 42.

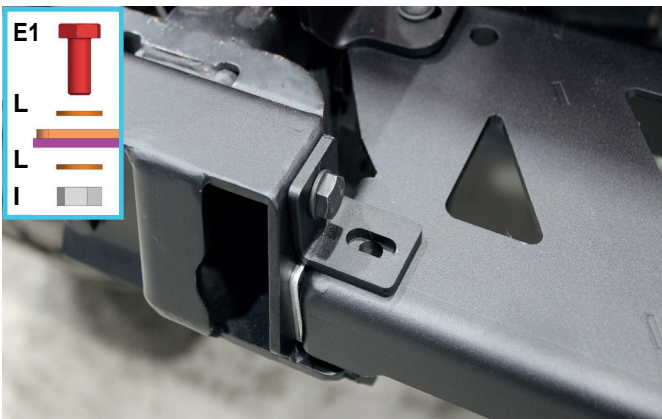
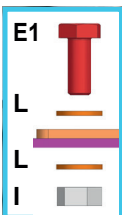


Fig. 43



Fig. 44

34. Install angle strut brackets (item U1) on winch bracket (item 2). Fix it using bolts M10x30 (item E1), nuts M10 (item I) and two washers 10 (item L). Fig. 43, 44.

***Do not tighten yet.**

INSTALLATION PROCEDURE



Fig. 45

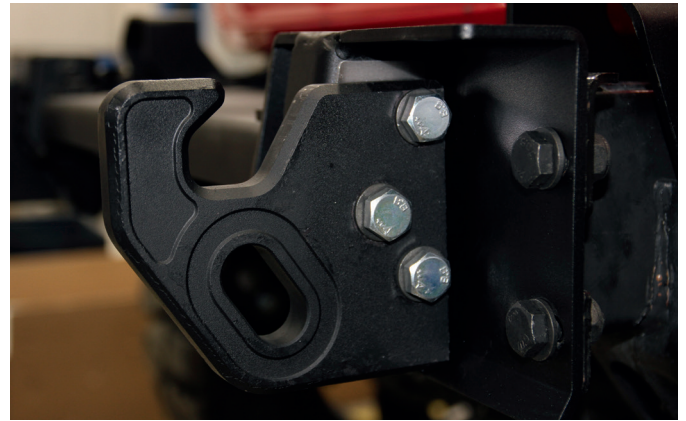


Fig. 46

35. Install tow hooks (item 5) on left and right brackets (item 13 and 14). Fix it using bolts M12x50 (item F1) and washers 12 (item N). Fig. 45, 46.

***Do not tighten yet.**

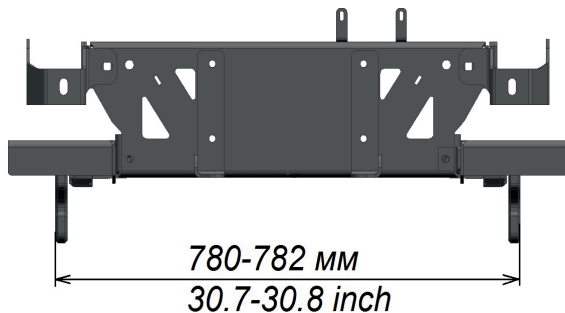


Fig. 47

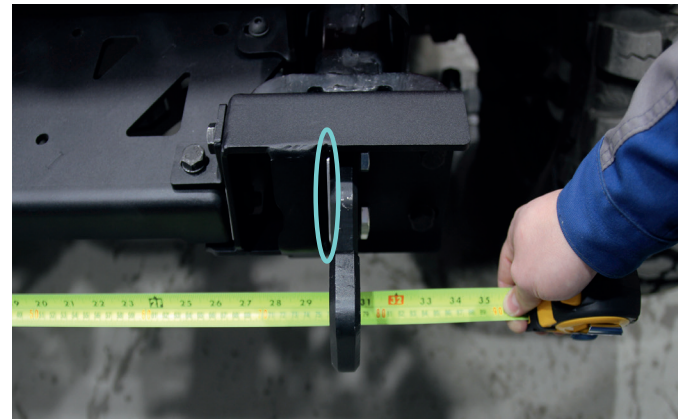


Fig. 48

36. Measure the distance between the outer edges of the tow hooks. The distance should be 30.7-30.8 inch (780-782 mm). If the distance is not equal to 30.7-30.8 inch (780-782 mm), install between the brackets (item 13, 14) and the tow hook (item 5) spacer plate 2mm (item Y2). Install an equal quantity of spacers on the left and right sides. Fig. 47, 48.

***Tighten hardware after that.**



Fig. 49

37. Install Fairlead right bracket (item 15) and Fairlead left bracket (item 16) on winch bracket (item 2). Fig. 49.



Fig. 50

38. If you are going to use winch, install winch on fairlead brackets (item 13 and 14), fix winch on winch bracket using hardware supplied with winch. Fig. 50.

***Tighten hardware after that.**

INSTALLATION PROCEDURE



Fig. 51



Fig. 52

39. Install lightbar (item 6) onto the bumper body (item 1), using screws M10x30 (item C), washers 10 (item L) and nuts M10 (item I). Fig. 51,52.

***Tighten hardware after that.**



Fig. 53



Fig. 54



Fig. 55

40. Install aluminum bumper body (item 1) onto the vehicle. Fix it using screws M10x30 (item C) and washers 10 (item L) to left and right adapters (item 3 and 4). Fig. 53, 54, 55.

***Do not tighten yet.**



Fig. 56



Fig. 57

41. Install skid plate (item 8) on skid plate brackets (item 9,10 or 11,12). Fix it using screws M10x30 (item G1) and countersunk washers (item O). Fig. 56, 57.

***Do not tighten yet.**

INSTALLATION PROCEDURE



Fig. 58

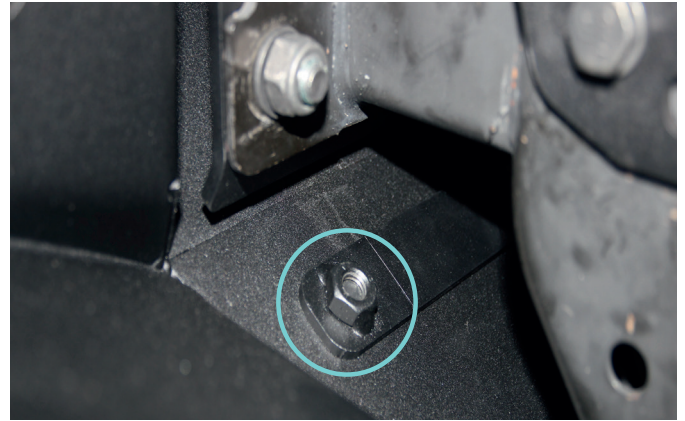


Fig. 59

42. Install insert brackets (item W) from the inside of the bumper (item 1) on both sides. Fig. 58, 59.



Fig. 60



Fig. 61

43. Fix skid plate (item 8) using screws M10x40 (item G) and countersunk washers (item O) on insert brackets (item W) as shown in fig. 60, 61.

***Tighten hardware after that.**

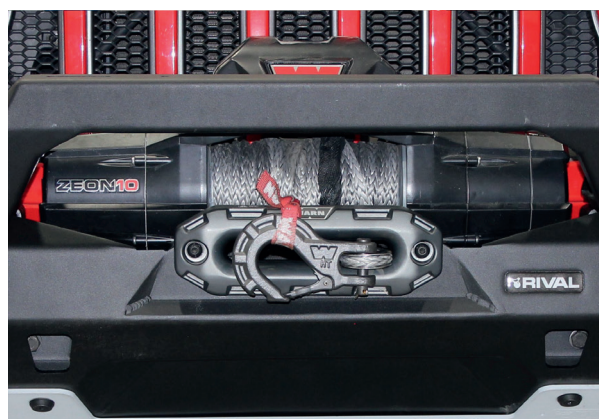


Fig. 62

44. Install fairlead. Fix it using two screws M10x50 (item D) and washers 10 (item L). Fig. 62.

***Tighten hardware after that.**

If you are going to use winch, please install fairlead (fairlead is not included to bumper).

INSTALLATION PROCEDURE

LED lights installation for 2D.2701.2-NL full width bumper only



Fig. 63

45. Install LED lights to LED brackets (item 7).
Fig. 63.

LED lights are not supplied with bumper.



Fig. 64

46. Install LED lights from the inside of the bumper. Fix it using screws M6x20 (item A), washer 6 (item K).

If you don't have LED lights, install the LED light cap (item Y) with screws M6x20 (item A), washers 6 (item K), LED brackets (item 7). Fig. 64.

***Tighten hardware after that.**

Fix wire on the bumper using cable tie (item S) and cable clips (item R).

For your convenience connect LED wires with plug before aluminum bumper body installation.

INSTALLATION PROCEDURE

Before operating a vehicle fitted with RIVAL Bumper 2D.2701.3-NL or 2D.2702.3-NL:

- make sure all fittings are tightened
- check winch operation
- check all electrical wiring attached to lights



Thank you for your choice!

Sincerely,

RIVAL 4x4 Team