### Jeep Wrangler
**Rear bumper (Standard), Rear Bumper (with Tire Carrier) and Tire Carrier**

#### Kit # 82213579
- See steps 1-8

#### Kit # 82213580
- See steps 1-5 then 9-42

#### Kit # 82213580 also requires Kit # 82211832AB
- See steps 1-5 then 9-42

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**Vehicle Parts Diagram**

- **Q**, **B**, **C**, **D**
- **LH**, **RH**

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**Hole Sizes**

- **AA**: Mylar DOT
- **AC**: 2x
- **AD**: 1/8" 1/4" 1/2" 3/4" 10mm 13mm 9/16" 15mm 11/16" 16mm
- **V**: 4x
- **Y**: 3x
- **Z**: 2x

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**06-15-2012**

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**K6861634**
1. Raise vehicle
2. Remove tire only if installing Kit # 82211832AB only. Save nuts for re-use in steps 27 & 29.

   See steps 27 & 29

If vehicle is equipped with a factory tow hook, it will need to be removed before proceeding.

4. Remove rear bumper assy.

   Re-use bolts when installing Bumper Kits # 82213579, and 82213580

2. See steps 6 and 10

Repeat for other side

3. Repeat for other side
Install Bumper Kit #82213579

Repeat for other side

Install bumper and align weldnuts in bracket to frame holes.

5

Finger tight only

Install two (2) bolts (item D) loosely into weldnuts in brackets (items B & C). Repeat for other side.

7

Position bracket (item B) to align all four (4) holes. Loosely install bolts removed in step 2 - Repeat with bracket (item C) on opposite side.

B

15mm
16mm

Visually inspect and align bumper for best appearance. Once properly aligned, torque bolts to the following torque requirements:

Factory Bolts: 48 ft-lbs (65 N.m)
Item D Bolts: 85 ft-lbs (115 N.m)

8

Install Bumper Kit #82213580 and Tire Carrier Kit #82211832AB

Repeat for other side

Install bumper and align weldnuts in bracket to frame holes.

9

Finger tight only

LH only

Position bracket (item B) to align all four (4) holes. Loosely install bolts removed in step 2.

A

16mm

10
Install two (2) bolts (item D) loosely into weldnuts in brackets (items B & C).

Position bracket (item H) to align all four (4) holes. Loosely install bolts (item W). The Pivot Post must pass through bumper top face by a minimum of 110mm.

Slowly tighten bolts to insure the Pivot Post top is 110mm above the Bumper Face and that the Bumper to Face is parallel to the Fender Flare bottom. Once bumper is adjusted, torque bolts:
- Factory Bolts: 48 ft-lbs (65 N.m)
- Item D Bolts: 85 ft-lbs (115 N.m)
- Item W Bolts: 48 ft-lbs (65 N.m)

Remove trim panel to access CHMSL wire harness and disconnect.

Item AB (Grease Fitting) to be lubricated after Step 42 is complete.
17. Save and re-use bolts for step 20.

18. Cut grommet from factory CHMSL harness and install to new CHMSL harness item G.

19. Connect as shown.

20. Insert bolts from step 17 into exposed holes.

21. Cut connector off from item G harness.
Trim back insulation on two (2) wires of item G.

Remove insulation from two wires located on body harness approximately 1” rearward of connector. DO NOT CUT OFF BODY HARNESS CONNECTOR. Expose about 1” of wire.

Twist wires together.

Solder and tape.

Post must be 110mm above bumper face

Re-lubricate post. If rust is present, remove with sandpaper prior to lubrication.

Items AA & AD used only if you have Bumper 82213580

Loosely assemble the components shown. When fitted, torque.
1) Pull pin up (item J).
2) Slide pin ramp (item W) under latch asy.

1) Install allen bolts (item Z) and lower pin (item X).
2) Secure pin ramps to bumper with nuts
3) align all components and torque.

1) Install tire to frame adaptor with nuts removed in step 1.
2) Insert frame adaptor (item I) with tire attached into tire carrier support (item E).
Push Item I into Item E until the tire hits the frame of Item E. Using hole in item E as a template, mark this location onto item I.
Remove frame adaptor (item I) and tire from item E. Remove tire from item I.

Measure approximately 5/16" forward from the center of the mark made in step 38. Using a drill and 1/2" drill bit, drill hole accordingly.

Drill hole here. REASON: This will compress the tire when installed and eliminate rattles.

Hole Marked in step 38

Measure approximately 5/16" forward from the center of the mark made in step 38. Using a drill and 1/2" drill bit, drill hole accordingly.

System is designed to compress tire slightly to eliminate vibration.

Push Item I into Item E. Align holes accordingly and install hardware.

Re-install tire onto frame adaptor (item I) and torque accordingly.

Use Petroleum Base Grease (not Silicone Grease)