INSTALLATION INSTRUCTIONS
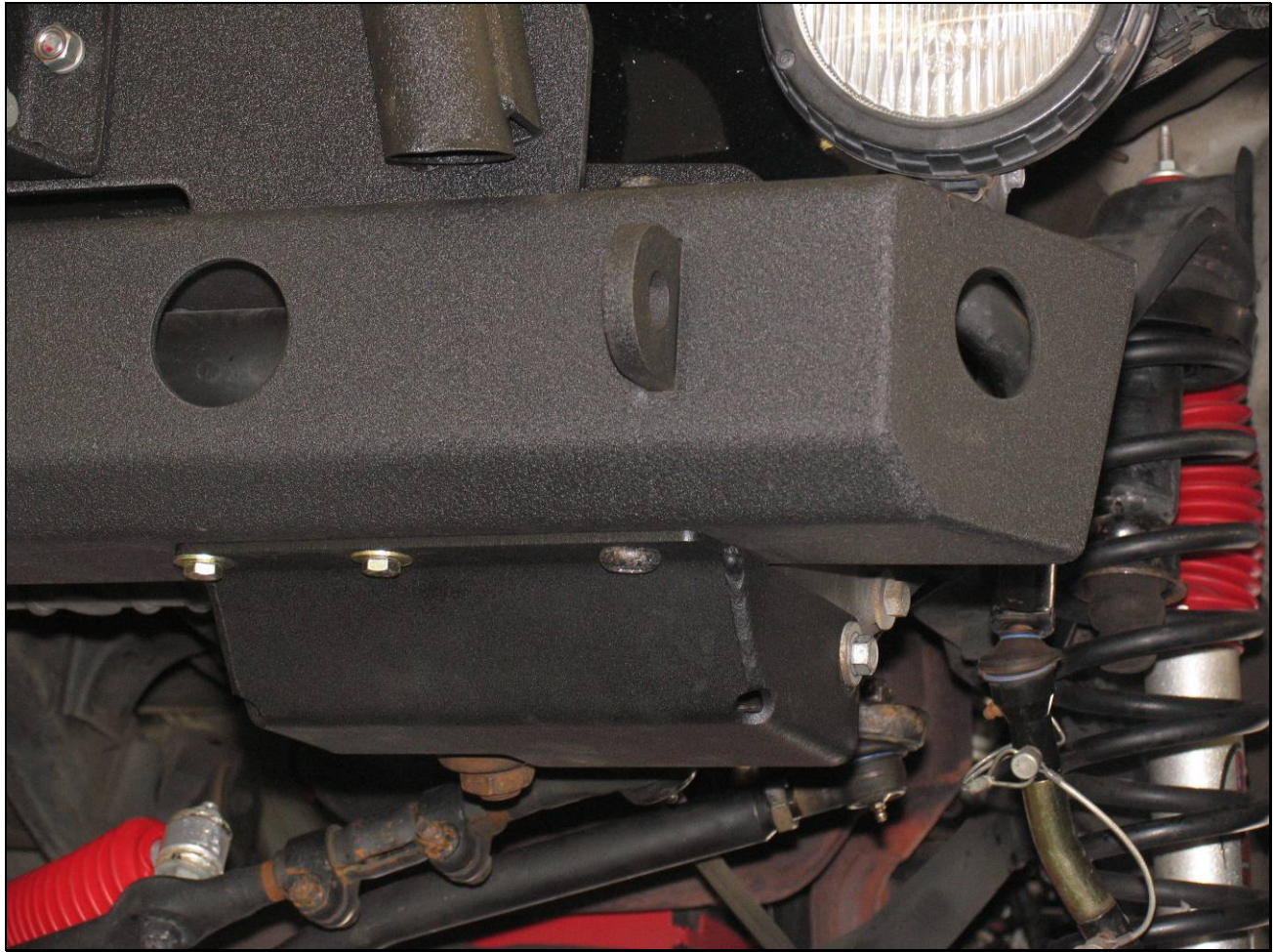
FOR RANCHO STEERING BOX SKID PLATE KIT **RS6225B**: JEEP WRANGLER (TJ)

FOR USE WITH RANCHO FRONT BUMPER RS6226B ONLY

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

PARTS LIST

P/N	DESCRIPTION	QTY.
176630B	Steering Box Skid Plate	1
860685	Hardware Kit	1
	HHCS 3/8-16 x1.25 Gr 8 Bolt	2
	3/8-16 Nylock Gr 8 Nut	2
	3/8 Hardened SAE Washer	2
	3/8 Hardened USS Washer	2

RANCHO SKID PLATE ASSEMBLY

1) ☐ Locate the skid plate mounting holes on the bumper and lower steering box bolt. See Figure 1.

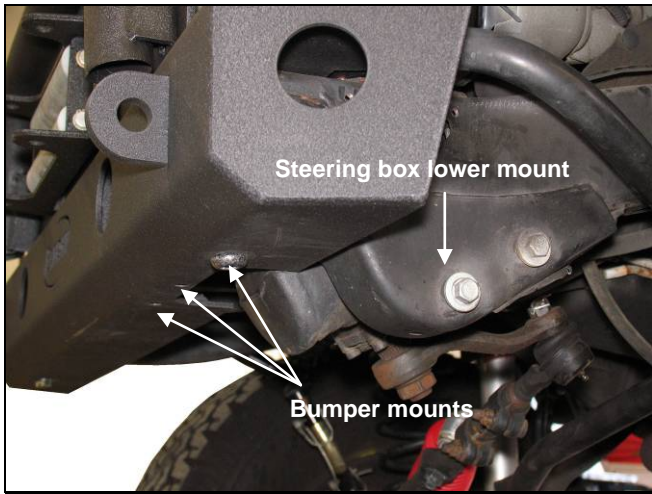**Steering box lower mount**

Bumper mounts

Figure 1

2) ☐ Remove the OE bumper mounting bolt and the OE steering box mounting bolt. Save for reuse.

3) ☐ First, attach skid plate 176630B to the bumper using the OE bumper mounting bolt and OE steering box mounting bolt. Do not tighten yet.

4) ☐ Using the 3/8″ hardware provided, affix the skid plate to the bumper though the 2 inboard holes. The order of the hardware from the bottom up should be bolt, large washer, bumper, small washer and then nut. See Figure 2.
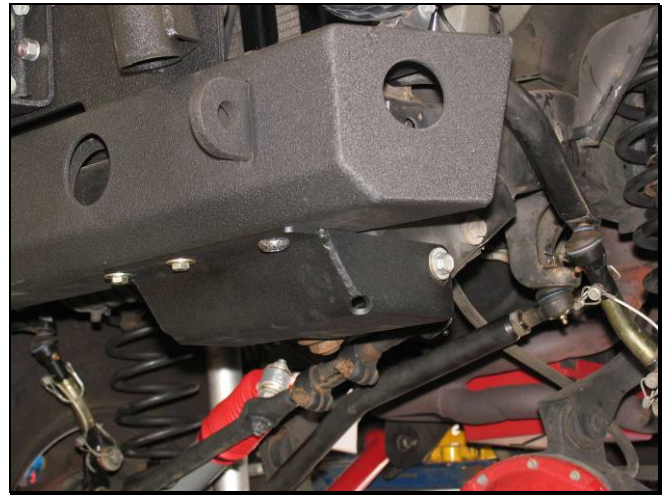

Figure 2

5) ☐ Torque the two 3/8″ bolts to 35 ft-lbs. Torque the OE bumper bolt to 65 ft-lbs. Torque the OE steering box bolt to 65-75 ft-lbs.

STANDARD BOLT TORQUE & IDENTIFICATION						
INCH SYSTEM			METRIC SYSTEM			
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15 FT-LB	20 FT-LB	M6	5 FT-LB	9 FT-LB	12 FT-LB
3/8	30 FT-LB	35 FT-LB	M8	18 FT-LB	23 FT-LB	27 FT-LB
7/16	45 FT-LB	60 FT-LB	M10	32 FT-LB	45 FT-LB	50 FT-LB
1/2	65 FT-LB	90 FT-LB	M12	55 FT-LB	75 FT-LB	90 FT-LB
9/16	95 FT-LB	130 FT-LB	M14	85 FT-LB	120 FT-LB	145 FT-LB
5/8	135 FT-LB	175 FT-LB	M16	130 FT-LB	165FT-LB	210 FT-LB
3/4	185 FT-LB	280 FT-LB	M18	170 FT-LB	240FT-LB	290 FT-LB

1/2-13x1.75 HHCS
D T L X   Grade 5   Grade 8

G = Grade Marking (bolt strength)
D = Nominal Diameter (inches)
T = Thread Pitch (threads per inch)
L = Length (inches)
X = Description (hex head cap screw)

M12-1.25x50 HHCS
D T L X

P = Property Class (bolt strength)
D = Nominal Diameter (millimeters)
T = Thread Pitch (thread width, mm)
L = Length (millimeters)
X = Description (hex head cap screw)