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


Parts List

Ref #	Part #	Qty	Description	Ref #	Part #	Qty	Description
1	8340	1	Pushplate - Driver's Side	7	*90103	4	3/8"-16 x 1 HX Cap Screw Gr 5
2	8341	1	Pushplate - Passenger Side	8	*90361	4	3/8 Lock Washer
3	8353	2	Angle Bracket	9	*90334	4	3/8-16 HX Nut
4	*90404	2	M12 x 1.25 x 40 HX Cap Screw Gr 8.8	10	*90683	1	M12 x 1.25 x 70 HX Cap Screw Gr 8.8
5	*90674	2	M12 x 1.25 x 60 HX Cap Screw Gr 8.8	11	*8325	1	Panel Mount Plate Set - Short (not shown)
6	*90430	6	M12 Sp Lock Washer	12	*8324	8	Cable Ties - Long (not Shown)

* part of 8342 Bolt Bag

Note: To insure proper fit of attachments and alignment of "connecting pin arms", do not fully tighten any fasteners until told to do so.

1. Remove passenger's side tow hook and discard fasteners.
2. Remove driver's side tie down bracket and save fasteners.
3. Clean threads of unused holes just rear of tie down and tow hook locations by installing and removing a M12 x 1.25 x 40 cap screw. Also grind off any welds on frame that will interfere with top bar of pushplate.
4. Align holes in top of driver's side pushplate (1) with holes in frame and attach with one M12 x 1.25 x 40 Gr. 8.8 cap screw (4) and lock washer (6) in rearmost hole. Reinstall tie down (rotate 180 degrees) through front holes in pushplate with previously removed tie down fasteners and two M12 lock washers (6). Do not fully tighten any fasteners at this time.
5. Repeat Step 4 for passenger's side pushplate (2) except use two M12 x 1.25 x 60 Gr. 8.8 cap screws (5) and lock washers (6) to reinstall two hook. (4-Runner will use a M12 x 1.25 x 70 cap screw on pushplate front hole with tow hook.)
6. Attach angle bracket (3) to holes on rear of pushplates with four 3/8 x 1 Gr. 5 cap screws (7), lock washers (8) and nuts (9). Check to see if the inside to outside distance between the connecting pin arms on push plates is 25-5/8". To ensure the arms are parallel, a second measurement must be taken farther back on the arms. This measurement must be the same as the first.
7. Fully tighten all fasteners beginning with angle bracket fasteners first.

FASTENER TORQUE (FT-LB)			
DIAMETER- THREADS PER INCH	GRADE		
			
	G2	G5	G8
1/4 - 20	6	9	13
5/16 - 18	11	18	28
3/8 - 16	19	31	46
7/16 - 14	30	50	75
1/2 - 13	45	75	115
9/16 - 12	66	110	165
5/8 - 11	93	150	225
9/16 - 12	150	250	370
7/8 - 9	150	378	591
1 - 8	220	583	893