



4RUNNER FULL LENGTH ROOF RACK

INSTALLATION

APPLICATION: 2003-2009 TOYOTA 4RUNNER

PARTS LIST	
DOUBLE SLOT 8020 BARS	5-8
GUTTER BLOCKS	4
AIR DAM	1
SIDE PLATES	2
BLACK SS 5/16-18 X 1-1/4 BUTTON HEAD BOLTS	4
BLACK SS 5/16-18 X 3/4 BUTTON HEAD BOLTS	32
BLACK SS 5/16-18 X 5/8 BUTTON HEAD BOLTS	4
BLACK 5/16 - 18 T-SLOT NUTS	12
SS M8X50MM FLAT HEAD BOLTS	8
SS 3/8 X 1 BUTTON HEAD BOLTS	12
SS 3/8 WASHER	12
SS 5/16 WASHERS	44
SS 5/16 NYLOCK NUTS	4

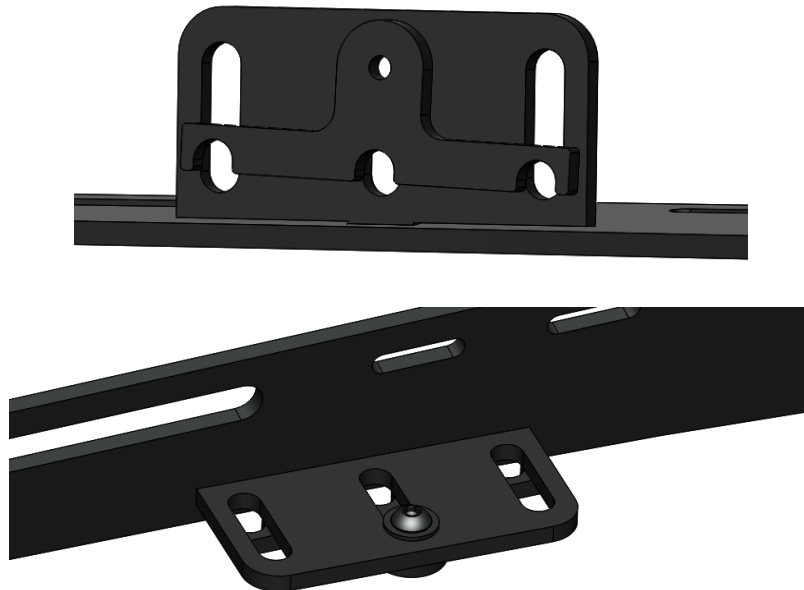
TOOLS REQUIRED
METRIC / STANDARD ALLEN KEYS
9/16 WRENCH
CLEAR SILICONE
TAPE MEASURE
GREASE / BLUE LOCTITE
TIN SNIPS

GENERIC TORQUE SPECS		
THREAD SIZE	BOLT HEAD SIZE	TORQUE
6mm	10mm	8 ft/lb
8mm	12 or 13 mm	18 ft/lb
10mm	17mm	23 ft/lb
12mm	19mm	50 ft/lb
14mm	22mm	90 ft/lb
1/4 in	7/16 in	12 ft/lb
5/16 in	1/2 in	19 ft/lb
3/8 in	9/16 in	23 ft/lb
1/2 in	3/4 in	90 ft/lb

1. Remove factory roof rack by removing the 4 plastic covers and removing 8x 12mm head bolts. The plastic covers are easiest to remove by prying upwards at each end, on the outside edge.
2. Clean and dry the area around the factory roof rack mounting holes. Apply silicone to the bottom of the gutter blocks around the mount holes and install with supplied stainless flat head M8 bolts. Apply some anti-seize or blue Loctite to the bolts before fastening. Tighten until snug, do not overtighten.



3. Fasten the 1/4" spacers provided to the bottom of the front rack tabs on the side panels. The 4 gutter blocks are the same height, but the spacers are required in the front to allow the rack to sit level. The spacer is threaded and can be attached with a 5/8" bolt and washer from the top side, as shown below. Install this loosely for now as some adjustment may be required in the next step.



4. Attach side rails to gutter blocks loosely with the 3/8 stainless steel button head bolts and washers, starting with the rear mounts. Apply some anti-seize or blue Loctite to the bolts prior. There are 3 bolts per corner, 12 bolts total. These are tightened with a 7/32 allen key. Make sure the front spacers are aligned properly to the gutter blocks.



5. This is a good time to apply anti-seize or blue Loctite to each of the 3/4" black stainless button head bolts used to mount the cross bars. If you did not opt for the full 8 crossbars, plan out your spacing of the cross bars per your specific needs. The only two required locations are the very front and very back.
6. Begin installing the crossbars, starting at the back of the vehicle. Make sure the t-slots are facing upwards, and don't forget the washers. Leave these bolts loose for now, as some adjustment will be required as you work your way down the rack.
7. Before installing the front-most crossbar, install 4 T-slot nuts into the front slot for securing the air dam. Once the crossbar is installed, hold the air dam roughly into place, and slide the t-slot nuts so they are aligned with the slots in the air dam.
8. Install the air dam with 1-1/4" bolts through the side rails and **2x 5/8" long bolts** through the top and into the t-nuts inserted previously into the front crossmember rail. Loctite specifically is recommended for the top bolts going into the t-slot nuts.
9. Install any remaining crossbars and t-slot nuts positioned to suit your applications.

10. Once the rack is complete, tighten all the black stainless hardware first, followed by the 12x 3/8" bolts in the gutter blocks.



INSTALL COMPLETE