

PARTS LIST

TOP SUPPORT PLATE KIT PAGES 7,8,9

- 2 - TOP SWAY BRACKETS (RT & LT)
- 2 - TOP SUPPORT PLATES (RT & LT)
- 4 - 6MM X 60MM BUTTON HEAD ALLEN BOLTS
- 4 - 6MM X 20MM BUTTON HEAD ALLEN BOLTS
- 8 - 1/4 USS THICK FLATWASHERS (3/4" DIA.)
- 8 - 1/4 LOCKWASHERS
- 2 - 3/8 USS FLATWASHERS (1" DIA.)
- 4 - 1/4" ID. X 3/8" OD. X 1 5/16" LONG TUBING SPACERS
- 4 - 1" OD. X 3/8 ID. X 1/2" LONG NYLON SPACERS

FRONT SUPPORT KIT PAGES 7,8,9

- 2 - FRONT SUPPORTS (RT & LT)
- 4 - 8MM X 35MM BUTTON HEAD ALLEN BOLTS
- 4 - 5/16 LOCKWASHERS
- 4 - 5/16 EXTRA THICK FLATWASHERS (7/8" DIA.)
- 3 - 5/16 SAE THICK FLATWASHERS (11/16" DIA.)
- 4 - 3/4" DIA. X 3/8" THICK NYLON SPACERS
- 1 - 8MM WING NUT
- 2 - 8MM X 50MM STUDS

TOP SUPPORT BARS & CROSSBAR KIT PAGE 7

- 2 - TOP SUPPORT BARS (83 1/2")
- 2 - TOP SUPPORT CROSSBARS (40 3/8")
- 8 - 3/8 X 1 1/4 CARRIAGE BOLTS
- 8 - 3/8 USS FLATWASHERS
- 8 - 3/8 NYLON LOCKNUTS

TOP RUBBER BUMP STOP KIT PAGE 6

- 2 - 1 1/2" RUBBER BUMP STOPS
- 2 - 5/16 X 2 1/2" ALL THREAD BOLTS
- 4 - 5/16 NUTS
- 2 - 5/16 LOCKWASHERS
- 2 - 3/8 FENDER WASHERS (1 1/2" DIA.)
- 2 - 3M SCUFF PADS
- 2 - BLACK TUBING THREAD COVERS
(CUT TUBING TO FIT)

INSIDE SUPPORT BRACKETS PAGE 8

- 2 - INSIDE SUPPORT BRACKETS (RT & LT)
- 2 - 6MM X 50MM ALL THREAD BOLTS
- 2 - 1/4 LOCKWASHERS
- 4 - 1/4 X 1 HD. THICK FLATWASHERS

LOWER SUPPORT KIT PAGE 4

- 2 - LOWER SUPPORTS
- 2 - 1/2 X 1 1/2 BOLTS
- 2 - 1/2 LOCKWASHERS
- 2 - 1/2 LARGE FLATWASHERS

INNER SUPPORT KIT PAGE 4

- 2 - INNER SUPPORTS
- 4 - 3/8 NUTS
- 4 - 3/8 LOCKWASHERS
- 4 - 3/8 USS FLATWASHERS (1" DIA.)

TOP ANGLE MOUNTING BRACKET KIT PAGE 5

- 2 - TOP ANGLE MOUNTS
- 2 - 7/16 X 1 1/2 BOLTS
- 4 - 7/16 SAE FLATWASHERS (15/16" DIA.)
- 2 - 7/16 TAP LOCKNUTS

REAR SUPPORT KIT PAGE 5

- 2 - REAR SUPPORTS (RT & LT)
- 4 - 7/16 X 1 1/2 BOLTS
- 2 - BLACK 1/8" THICK NYLON PADS
- 8 - 7/16 SAE FLATWASHERS (15/16" DIA.)
- 4 - 7/16 TAP LOCKNUTS

FRONT AND REAR CONNECTING TUBE KIT PAGES 5,9

- 1 - FRONT CONNECTING TUBE (28 7/8")
- 1 - REAR CONNECTING TUBE (38")
- 4 - 5/16 X 1 BUTTON HEAD ALLEN BOLTS
- 4 - 5/16 LOCKWASHERS
- 4 - 5/16 EXTRA THICK FLATWASHERS
- 1 - 3/16 ALLEN WRENCH

Part# 20094
JL Adventure Rack

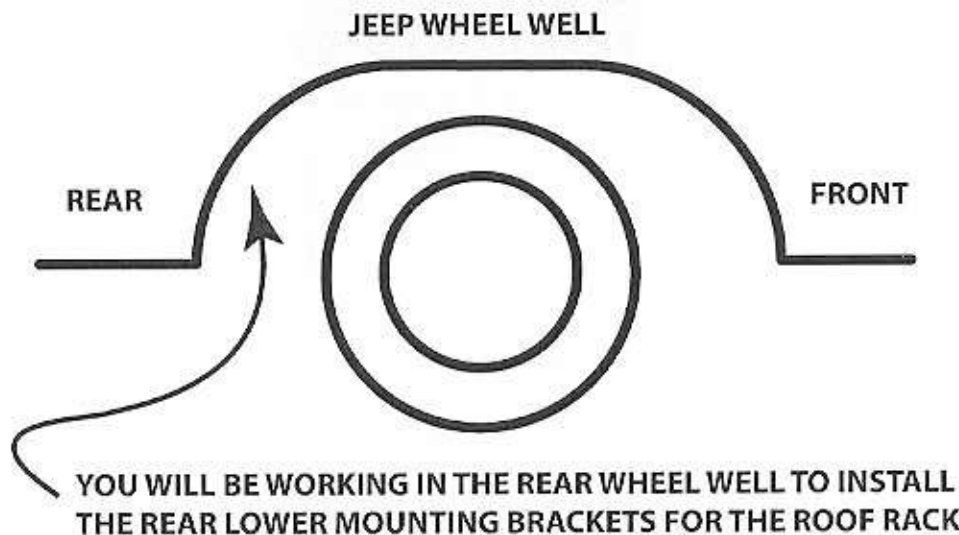
Installation Instructions

Please Note! For an easier installation, leave all fasteners loose until directed to tighten.

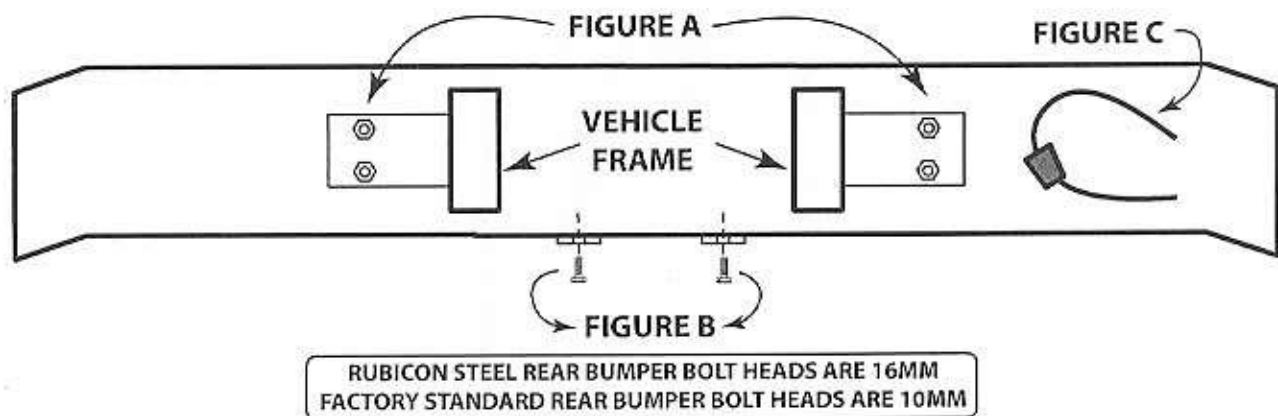
1. Remove factory rear bumper as shown on page 3.
2. Install inner support brackets as shown on bottom of page 3, and figures A & B on page 4.
3. Install rear mounting brackets, page 4, figures B & C. Adjust brackets so the Velcro pad is as close to the body as possible. Align and tighten all fasteners.
4. Re-install rear bumper, support brackets, and plug in the wiring. Tighten all fasteners.
5. Re-install rear plastic panels (6-8mm head screws)
6. Install top angle brackets to rear mounts as shown on page 5, slightly tighten to hold in place.
7. Assemble rear bump stops. Follow the instructions on page 6.
8. Install rear supports and black nylon pads to top angle bracket, as shown on page 5. Slightly tighten to hold in place.
9. Remove radio antenna (3/8" end wrench)
10. Remove front cowlings, 4 (T-40) Bolts.
11. Remove front cowlings and install inside support brackets, as shown on page 8, figure B.
12. Re-install cowlings and install the 8mm x 50mm stud in lower holes. Refer to page 9, figure A. This step will make the front support installation easier.
13. After installing the front supports on both sides, leave slightly loose and spread top supports apart and install front connecting tube, as shown on page 9, figure C. Leave hardware loose.
14. Install top support plates and top support flex brackets as shown on page 8 and 9. Align and tighten all fasteners.
15. Re-install radio antenna
16. Install the two top support bars (83 3/8"L) to the front and rear supports, as shown on page 7.
17. Install the two top crossbars (40 3/8") to the top support bars.
18. After the rack is aligned and all hardware tightened, refer to pages 5 and 6 for placement of the 3M scuff pads and top bump stop adjustment.

Weather Proofing Connecting Joints:

1. Back out the 5/16 button head bolts approximately 1/4" from the tubes. Apply black silicon to the threads and hole. Re-tighten bolt.
2. Apply black silicon around the area where the front and rear tubes slide over the supports.
3. Touch up all nicks and scratches, that normally occur with a roof rack, with some black enamel paint.
4. We recommend touching up all mounting hardware with black enamel paint. During installation the coating on the hardware can get stripped off.



- 1 - REMOVE THE PLASTIC PANEL BEHIND THE REAR TIRES (6 - 8MM HEAD SCREWS)
- 2 - REMOVE THE OUTBOARD BUMPER SUPPORT BRACKETS (8 - BOLTS 16MM HEAD)
- 3 - PULL WHITE TAB UP ABOUT 1/8" ON THE SENSOR WIRING CONNECTER AND UN-PLUG CONNECTER, FIGURE C , ALSO DISCONNECT FROM METAL BRACKET
- 4 - REMOVE THE 4 - 16MM NUTS (FIGURE A) AND BOLTS (FIGURE B)
- 5 - TILT BUMPER UP AND REMOVE REAR BUMPER.



- 6 - AFTER YOU HAVE REMOVED ALL THE PANELS AND BUMPER , YOU WILL SEE A LARGE OVAL HOLE IN THE BODY STRUCTURE AND ON THE BOTTOM YOU WILL SEE A SQUARE HOLE.
- 7 - INSTALL THE INNER SUPPORT BRACKET THRU THE OVAL HOLE AS SHOWN IN FIGURE A, PAGE 4.

FIGURE A

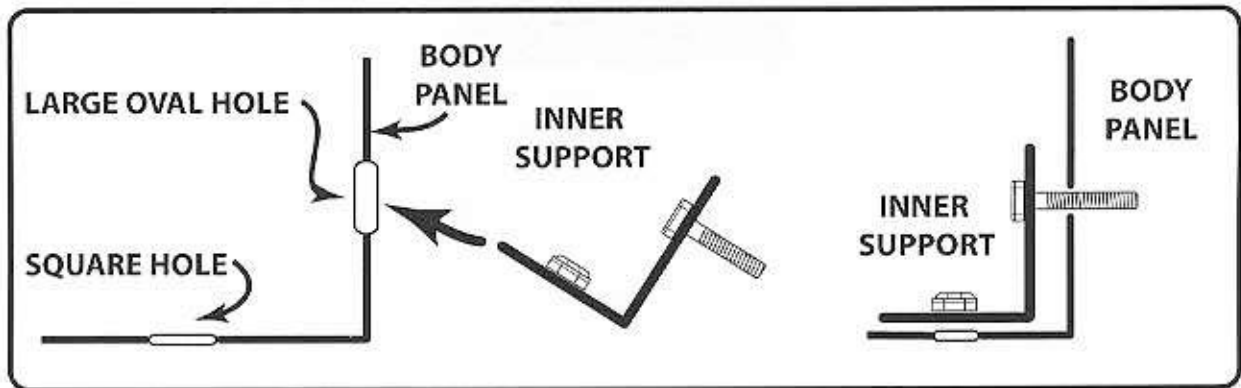


FIGURE B

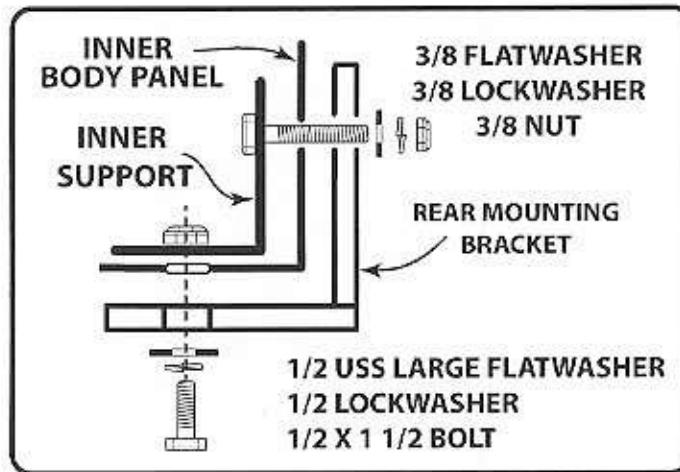


FIGURE C

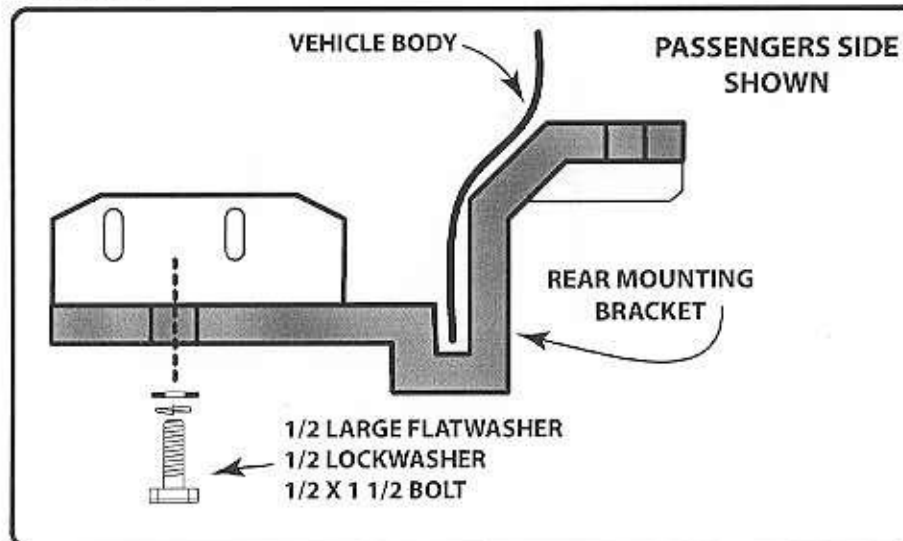


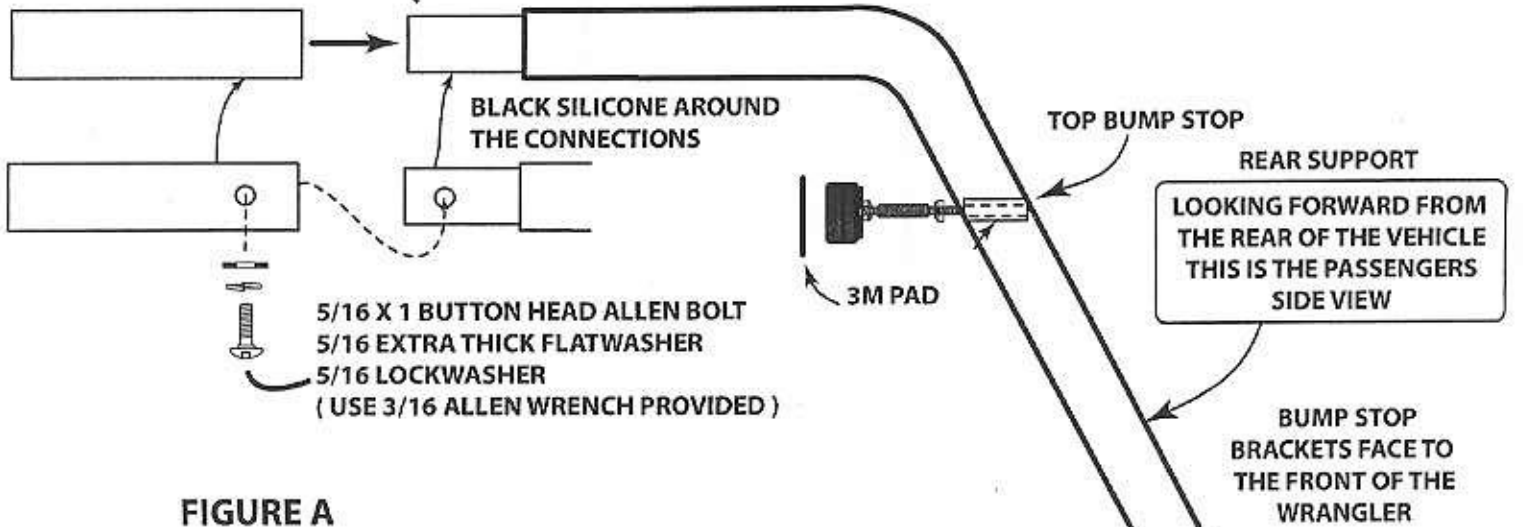
FIGURE C

THIS VIEW IS FROM UNDER THE JEEP LOOKING TOWARD THE REAR OF THE VEHICLE, ON THE PASSENGERS SIDE

**REAR TOP SUPPORT BRACKET AND REAR CONNECTING TUBE
INSTALLATION DRAWING**

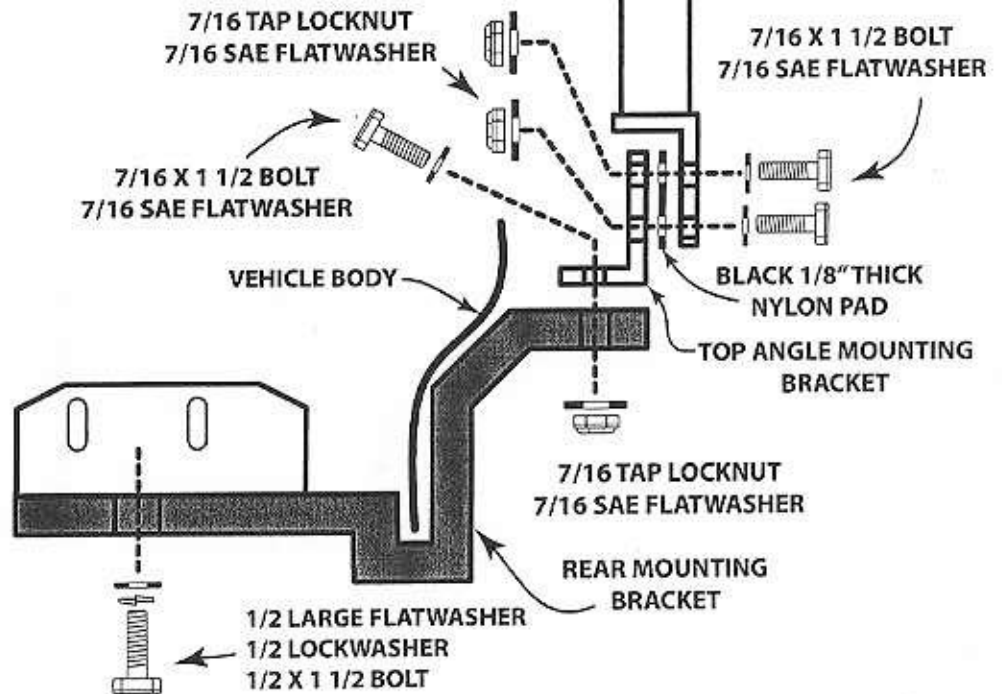
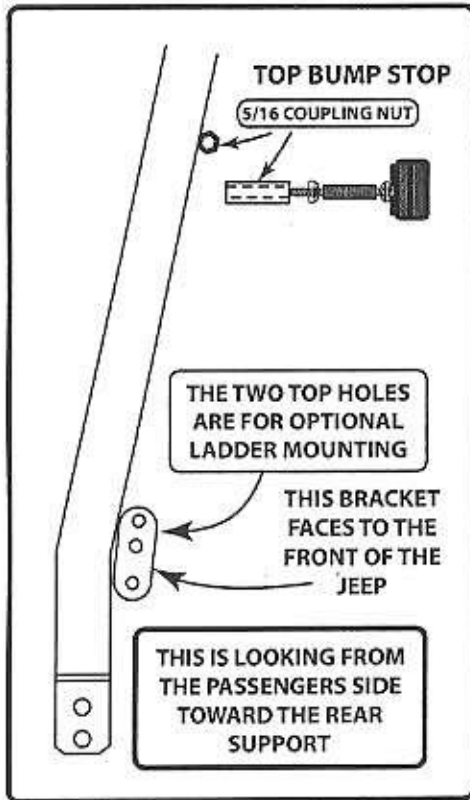
(PASSENGERS SIDE SHOWN)

REAR CONNECTING TUBE 38" LONG



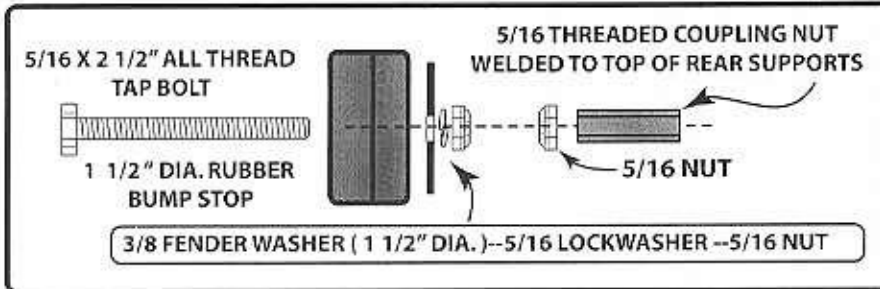
5/16 X 1 BUTTON HEAD ALLEN BOLT
5/16 EXTRA THICK FLATWASHER
5/16 LOCKWASHER
(USE 3/16 ALLEN WRENCH PROVIDED)

FIGURE A



REAR SUPPORTS TOP BUMP STOP
AND RAIN GUTTER BUMP STOPS

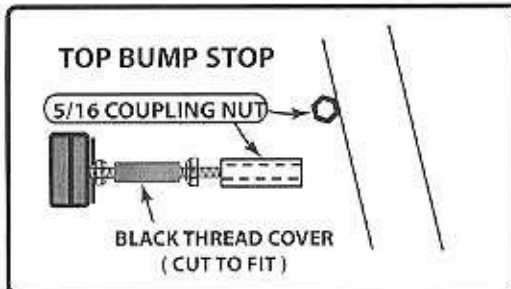
FIGURE A TOP BUMP STOP ASSEMBLY



1 - ASSEMBLE RUBBER BUMPER TO TAP BOLT AND TIGHTEN. REFER TO FIGURE A

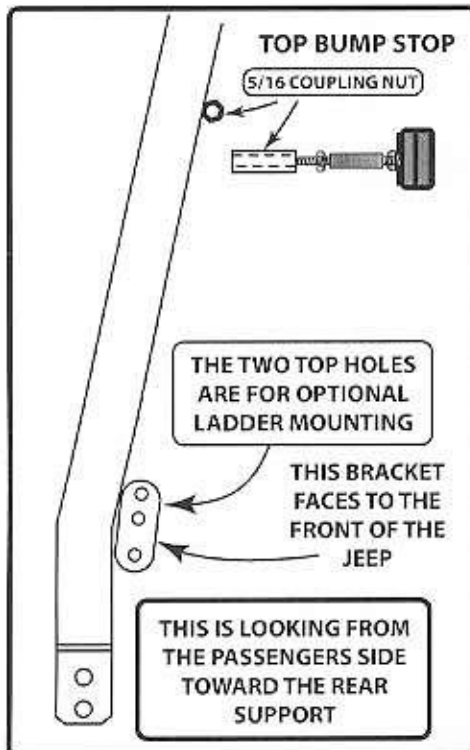
2 - INSTALL RUBBER BUMP STOPS TO REAR SUPPORTS BEFORE INSTALLING ON VEHICLE. REFER TO PAGE 5 & 6 INSTALL HARDWARE LOOSE TO HOLD ON DURING INSTALATION.

FIGURE B



3 - FINISH ROOF RACK INSTALLATION AND AFTER THE ROOF RACK IS ALIGNED AND ALL FASTENERS ARE TIGHTENED, POSITION THE RUBBER BUMP STOP WHERE IT WILL TOUCH THE BODY. AT THAT PLACE , REMOVE THE WHITE BACKING FROM THE 3M SCUFF PAD AND STICK TO BODY.

4 - ADJUST THE RUBBER BUMP STOP SO IT JUST TOUCHES THE BODY. SECURE BY TIGHTENING THE 5/16 NUTS AND LOCKWASHER.



5 - USE SOME VASOLINE JELLY ON THE RUBBER IF A SQUICKING NOISE IS HEARD, AS THE RUBBER BUMPER WILL GET HARD OVER TIME.

PART# 20094

GENERAL DRAWING

PASSENGERS SIDE SHOWN

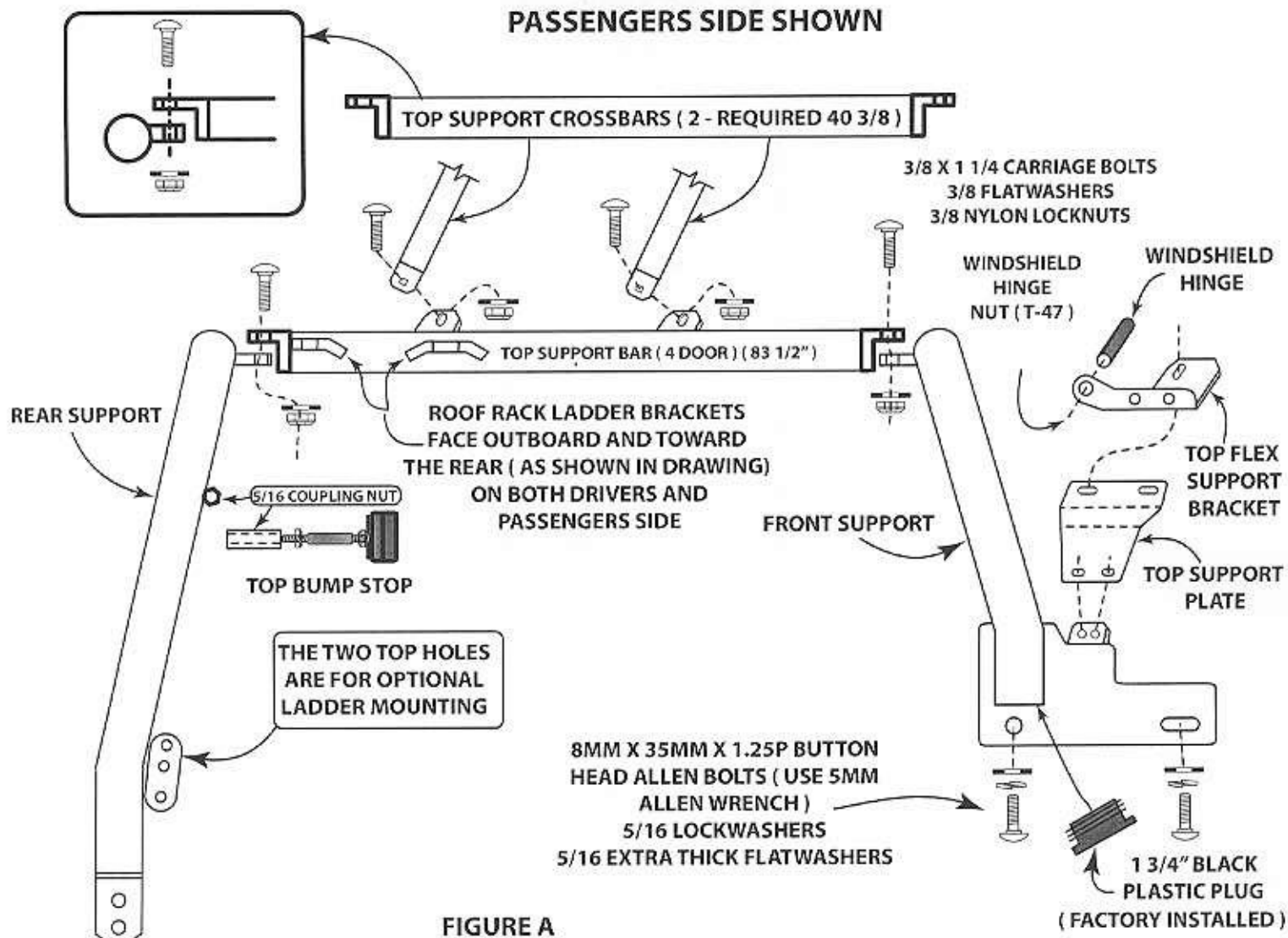
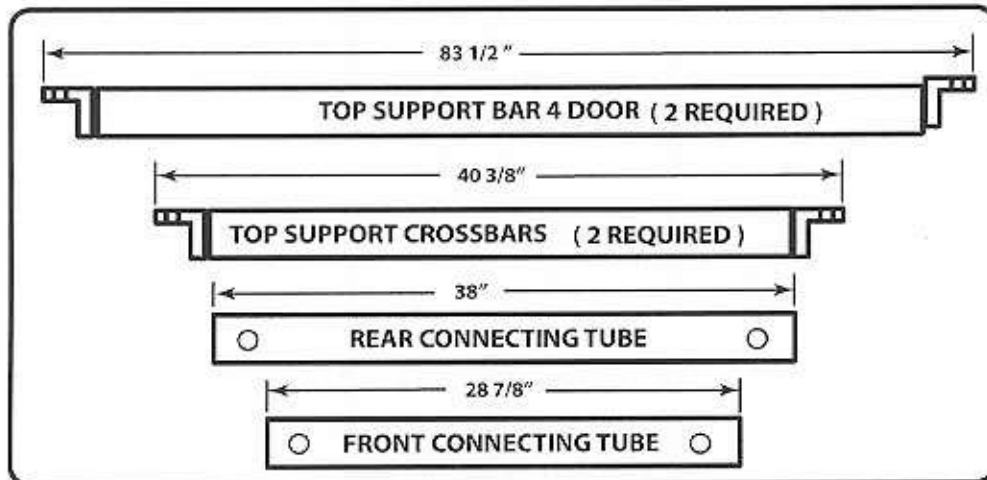


FIGURE A



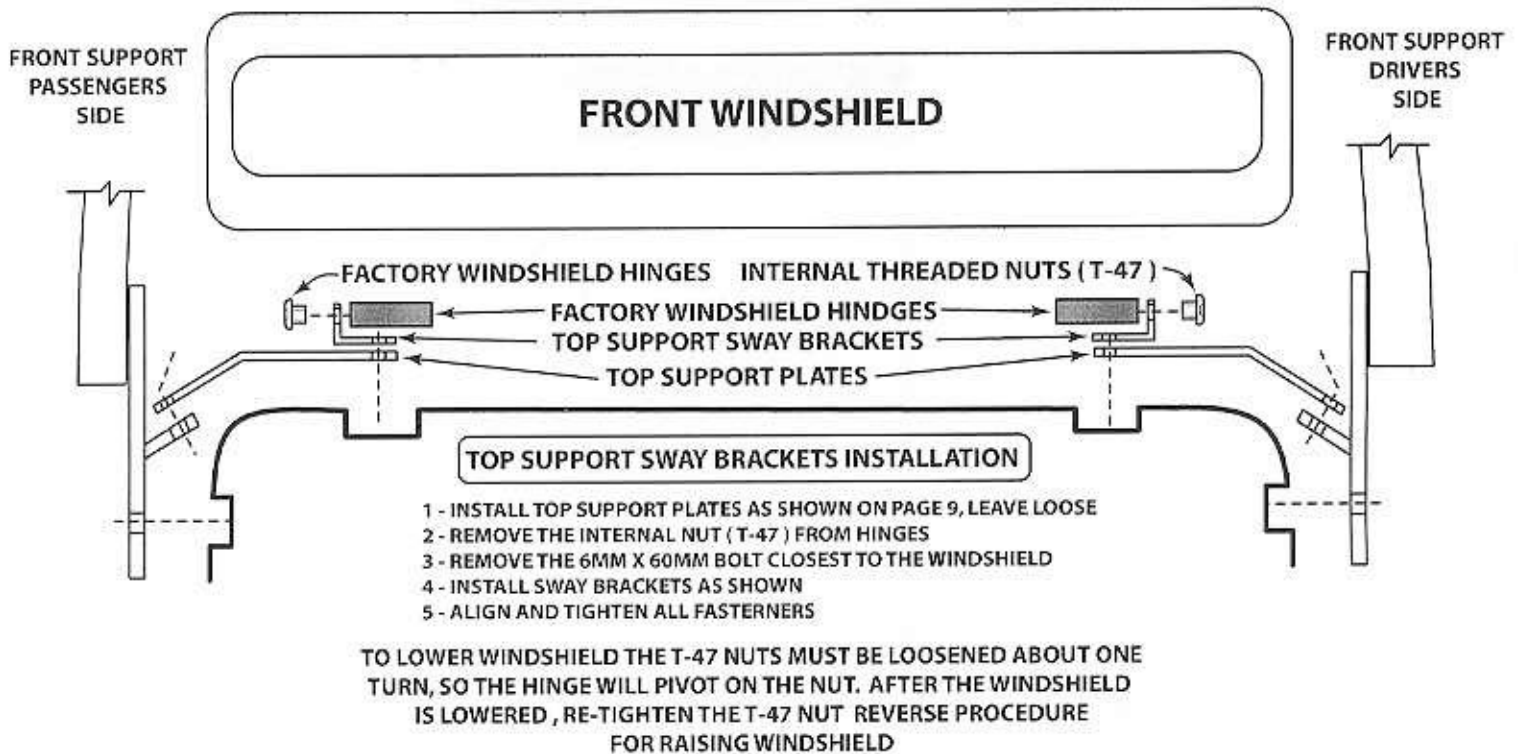


FIGURE B WINDSHIELD COWLING INSIDE SUPPORT BRACKET INSTALLATION

- 1 - REMOVE FACTORY ANTENNA (USE 3/8 END WRENCH) (PASSENGERS SIDE ONLY)
- 2 - REMOVE THE 4 BOLTS FROM THE FRONT COWLING PANELS BELOW FRONT WINDSHIELD (T-40) FROM BOTH SIDES
- 3 - REMOVE BOTH COWLINGS , REMOVE FACTORY BOLT AS SHOWN , INSTALL SUPPORT BRACKET AS SHOWN
- 4 - ADJUST SUPPORT BRACKET TO LINE UP WITH THREADED HOLE AS SHOWN, SLIGHTLY TIGHTEN TO HOLD IN PLACE, WITH SLIGHT PRESSURE PUSH BRACKET AT POINT A TOWARD CENTER OF VEHICLE AND TIGHTEN 6MM X 50MM BOLT. RE-INSTALL FRONT COWLINGS AND CONTINUE INSTALLATION ON PAGE 9 FIGURE B.

6MM X 50MM ALL THREAD BOLT
1/4 LOCKWASHER
1/4 X 1 WASHER .125 THICK

REMOVE FACTORY BOLT
(10 MM HEAD BOLT)

FACTORY 8MM
THREADED HOLE

USE 1/4 X 1 FLATWASHER ON BOTTOM
IF NEEDED TO SPACE UP SUPPORT AS SHOWN
SO THE THREADED HOLE
IS CENTERED IN OVAL HOLE IN
SUPPORT BRACKET

POINT A

ROUND HOLE
CENTERED
IN OVAL
HOLE

WINDSHIELD COWLING INSIDE SUPPORT BRACKET

FIGURE A

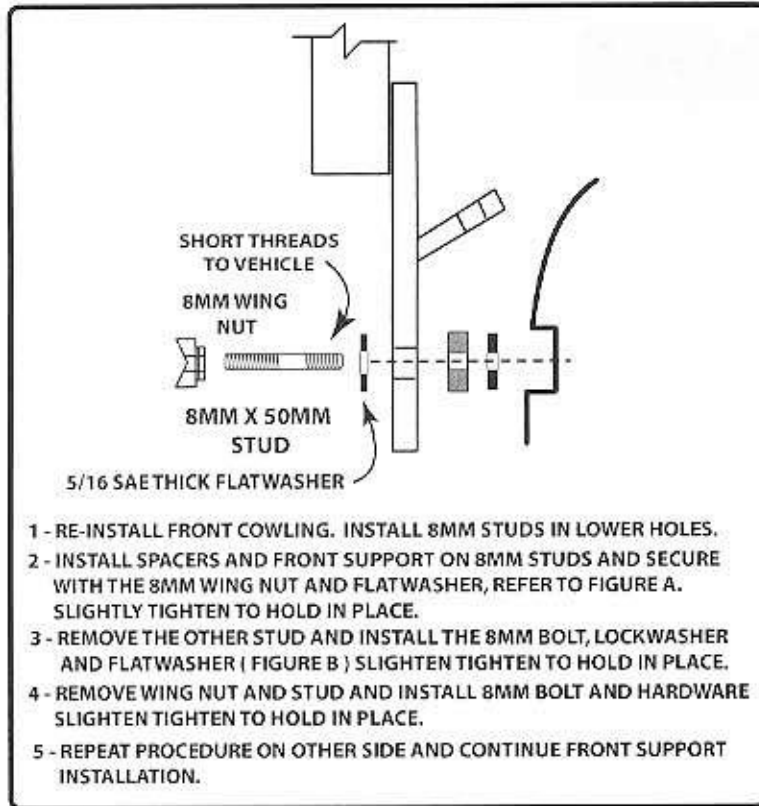


FIGURE C

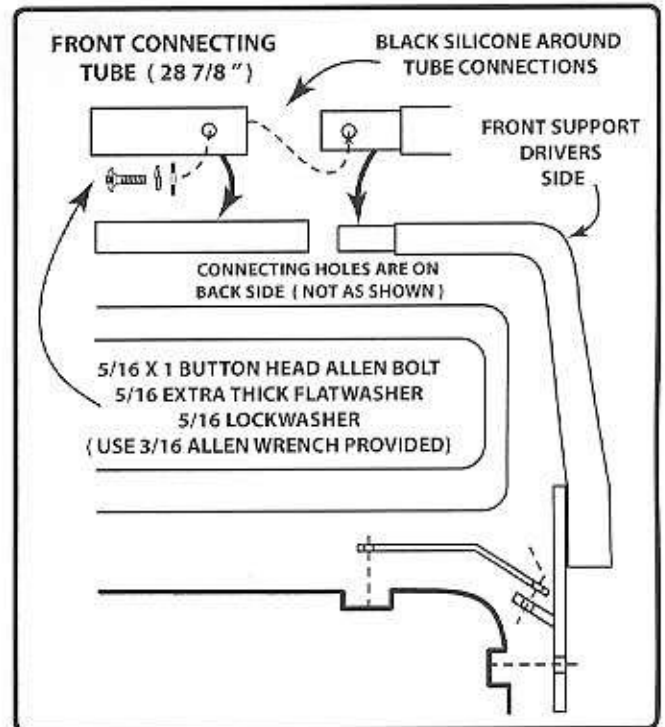


FIGURE B

