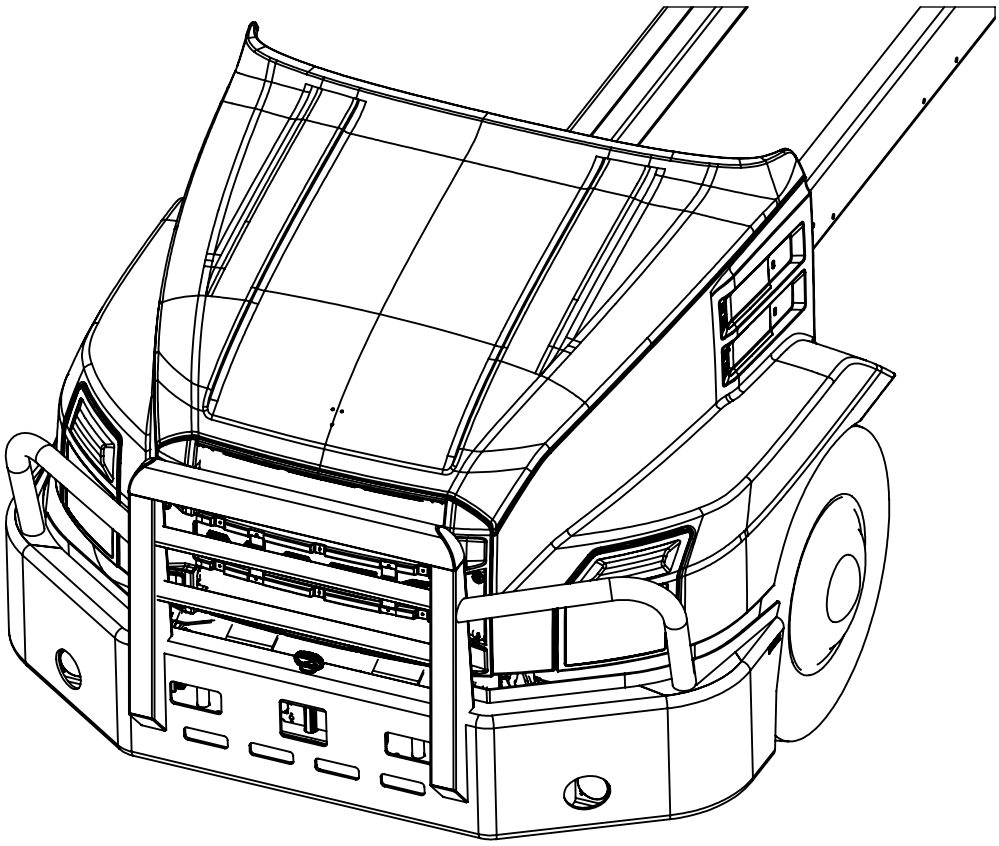
INSTALLATION GUIDE

MODEL NUMBER: 17297
TRUCK MODEL: 2017+ MACK ANTHEM



IMPORTANT INFORMATION

- THIS GUIDE IS ONLY APPLICABLE TO PRODUCTS AND TRUCK MODELS SPECIFIED.

- THE CORRECT SIZE AND GRADE OF HARDWARE SPECIFIED IN THIS GUIDE MUST BE USED.

- CHECK ALL MOUNTING POINTS AFTER THE FIRST 5000KM'S IN SERVICE AND PERIODICALLY THERE AFTER. RE-TORQUE IF NECESSARY.

- RECOMMENDED ADDING THREADLOCKER (LOCTITE BLUE 242) TO ALL THREADS BEFORE INSTALLING.

- ALL MAGNUM PRODUCTS MUST BE INSTALLED ACCORDING TO THIS INSTALLATION GUIDE. ANY DEVIATIONS MAY RESULT IN VOID OF WARRANTY.

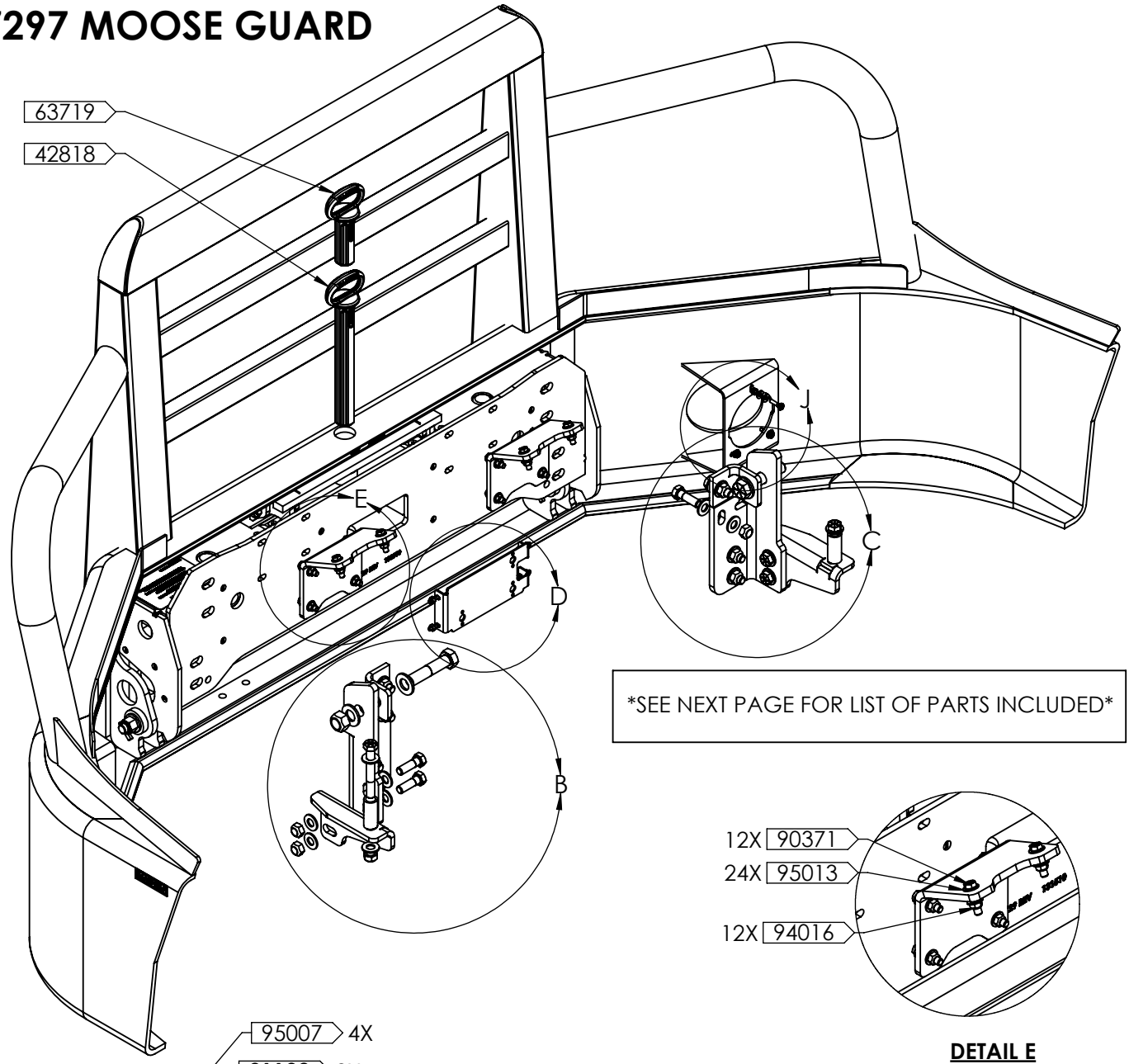
- ANY ALTERATIONS TO THE PRODUCT MAY RESULT IN VOID OF WARRANTY.

SAFETY INFORMATION

- PROPER PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHEN INSTALLING THIS PRODUCT.

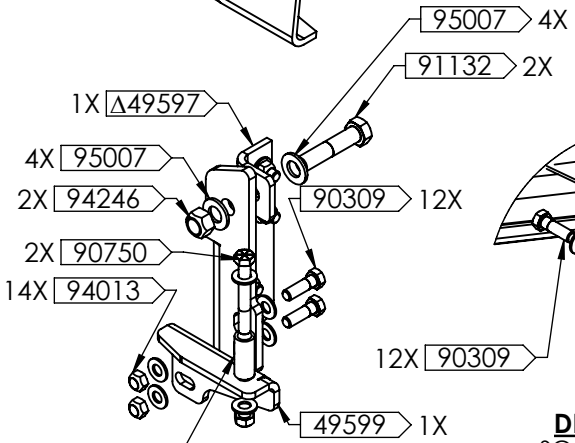
- SOME PARTS OF THIS PRODUCT MAY BE HEAVY OR AWKWARD TO HANDLE. USE CAUTION WHEN HANDLING.

17297 MOOSE GUARD

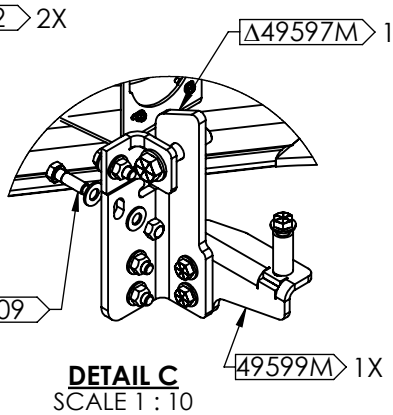


SEE NEXT PAGE FOR LIST OF PARTS INCLUDED

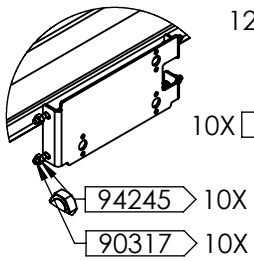
DETAIL E
SCALE 1 : 8



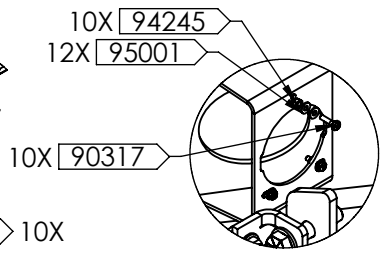
DETAIL B
SCALE 1 : 10



DETAIL C
SCALE 1 : 10



DETAIL D
SCALE 1 : 10



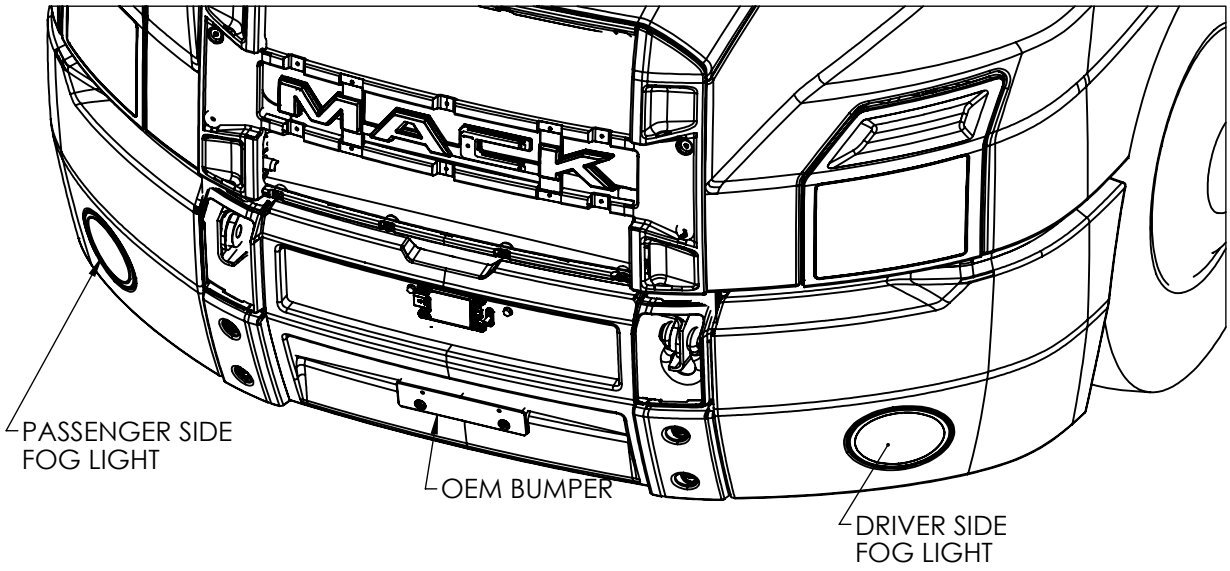
DETAIL J
SCALE 1 : 10

ASSEMBLY KIT PARTS

ITEM#	DESCRIPTION	MAT'L	DIMENSIONS	WT. EA	STOCK #	QTY.
42818	CAST TOWPIN	130-90-09 CAST IRON	Ø1 1/2 X 13 5/8	5.4	125613	1
49597	MOUNT BRACKET ASSEMBLY		ASSEMBLY	10.5	127006	1
49597M	MOUNT BRACKET ASSEMBLY - MIRROR		ASSEMBLY	10.5	127007	1
49599	BRACKET	44W	3/8" PL X 5 27/32" X 7 1/2"	3.3	127010	1
49599M	BRACKET	44W	3/8" PL X 5 27/32" X 7 1/2"	3.3	127011	1
49609	INNER BRACKET	44W	3/8" PL X 6 1/4" X 9 7/16"	5.6	127015	2
51972	SPACER PIPE FOR 5/8 BOLT	A-53	3/4 INCH XS PIPE X 2 7/16"	.3	127700	2
51975	BENDIX RADAR (FLR-20) MOUNTING BRACKET (VER 3)	5052-H32	1/8" X 10 29/32" X 4 1/4"	.47	127701	1
63719	SHORT CAST LATCH PIN (4-1/2 IN)	65-45-12 CAST IRON	Ø1 1/2 X 6 3/4	2.8	131663	1
90309	HEX CAPSCREW - PLATED	GR. 8	5/8" NC X 2"	.25	101976	12
90317	HEX CAPSCREW - PLATED	GR. 5	1/4" NC X 1"	.022	101551	10
90371	HEX HEAD BOLT - PLATED	GR. 8	3/8" NC X 1 1/2"	.064	101902	12
90750	HEX CAPSCREW - PLATED	GR. 8	5/8" NC X 4 1/2"	.47	101986	2
91132	HEX CAPSCREW - PLATED	GR. 8	7/8" NC X 4"	.91	109390	2
94013	STOVER NUT - PLATED	GR. C	5/8" NC	.063	101481	14
94016	STOVER NUT - PLATED	GR. C	3/8" NC	.013	101478	12
94245	STOVER NUT - PLATED	GR. C	1/4 NC	.0082	101476	10
94246	STOVER NUT - PLATED	GR. C	7/8 NC	.19	101480	2
95001	FLAT WASHER - PLATED	GR. 2	1/4" DIA SAE	.0043	102157	12
95007	FLAT WASHER - PLATED	GR. 8	7/8" DIA SAE	.078	102173	4
95013	FLAT WASHER - PLATED	GR. 8	3/8" DIA SAE	.0069	102170	24
95019	FLAT WASHER - PLATED	GR. 8	5/8" DIA SAE	.035	102172	28

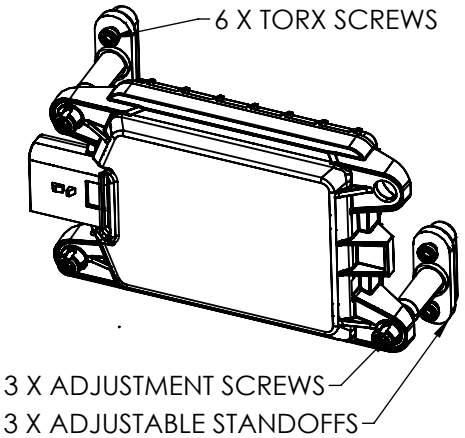
INSTALLATION PROCEDURE

1. UNINSTALL THE OEM BUMPER, TOW SHACKLES, AND FOG LIGHTS FROM TRUCK.



2. IF RADAR IS EQUIPPED ON THE TRUCK IT MUST BE REMOVED FIRST BEFORE INSTALLING THE MOOSE GUARD. KEEP THE ORIGINAL MOUNTING HARDWARE SEEN IN THE FIGURE TO THE RIGHT:

- 3 X ADJUSTABLE STANDOFFS
- 3 X ADJUSTMENT SCREWS
- 6 X TORX SCREWS



INSTALLATION PROCEDURE

3. INSTALL THE MOUNT BRACKETS [Δ49597] & [49599] ON THE DRIVER SIDE AND [Δ49597M] & [49599M] ON THE PASSENGER SIDE.

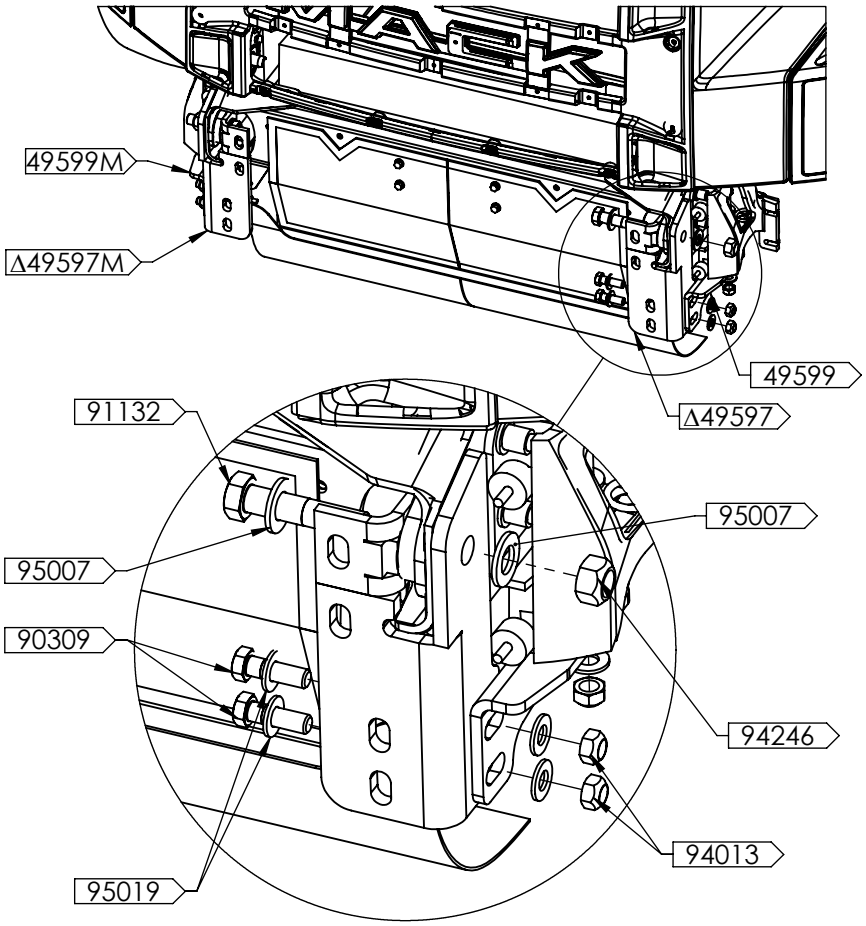
4. ATTACH [Δ49597] & [Δ49597M] USING THE FOLLOWING HARDWARE BY SLIDING THE BOLT THROUGH THE BRACKETS AND TOW SHACKLE LOCATION ON THE TRUCK:

2 X [91132] BOLTS

4 X [95007] WASHERS

2 X [94246] NUTS

TORQUE TO 450 FT-LBS (LUBRICATED) / 600 FT-LBS (DRY).



5. ATTACH [49599] TO [Δ49597] AND [49599M] TO [Δ49597M] USING THE FOLLOWING HARDWARE:

4 X [90309] BOLTS

8 X [95019] WASHERS

4 X [94013] NUTS

TORQUE TO 160 FT-LBS (LUBRICATED) / 210 FT-LBS (DRY).

6. ATTACH [49599] AND [49599M] TO THE TRUCK USING THE FOLLOWING HARDWARE:

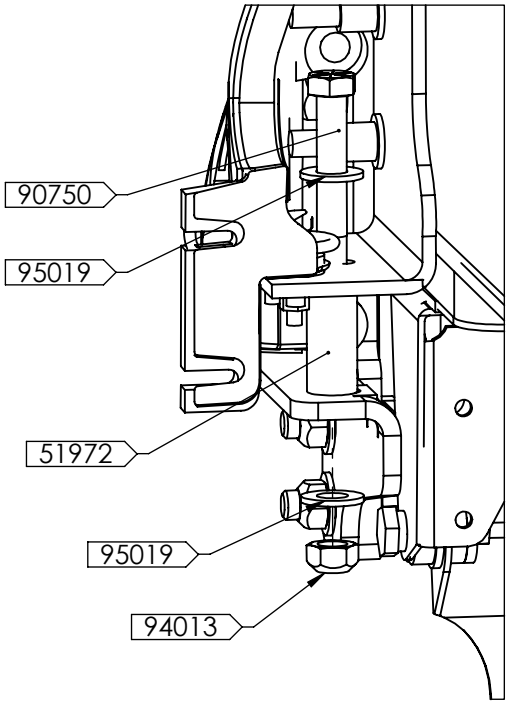
2 X [90750] BOLTS

4 X [95019] WASHERS

2 X [94013] NUTS

2 X [51972] SPACERS

TORQUE TO 160 FT-LBS (LUBRICATED) / 210 FT-LBS (DRY).



INSTALLATION PROCEDURE

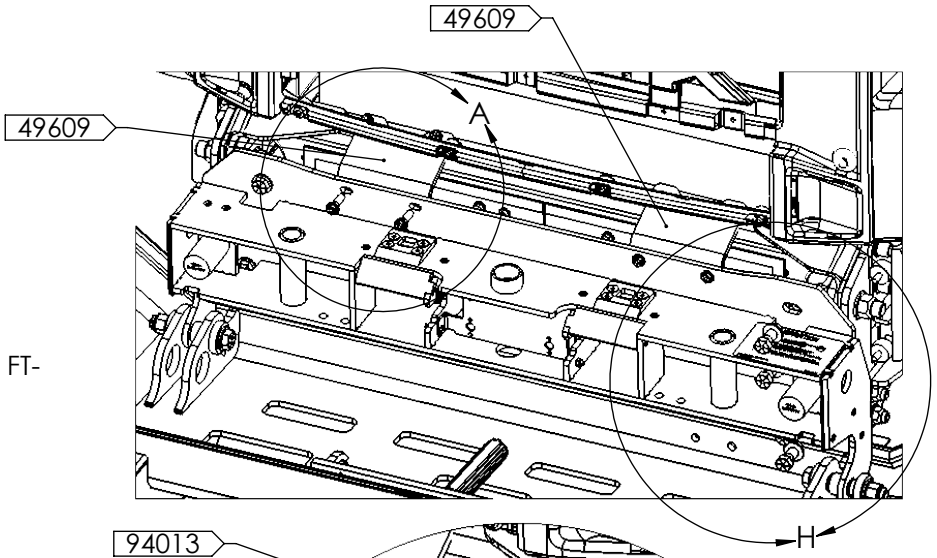
7. ATTACH THE GUARD TO THE MOUNT BRACKETS USING THE FOLLOWING HARDWARE:

8 X [90309] BOLTS

16 X [95019] WASHERS

8 X [94013] NUTS

TORQUE TO 160 FT-LBS (LUBRICATED) / 210 FT-LBS (DRY).



8. INSTALL 2X [49609] BRACKETS.

ATTACH [49609] TO THE TRUCK

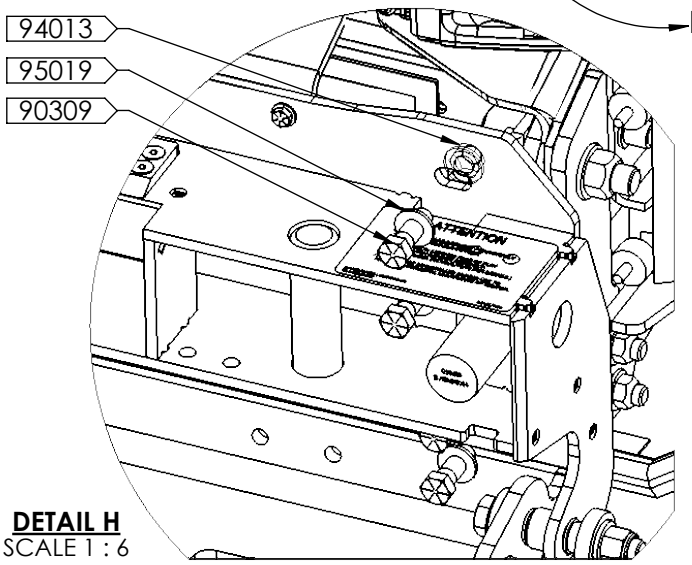
USING THE FOLLOWING HARDWARE:

4 X [90371] BOLTS

8 X [95013] WASHERS

4 X [94016] NUTS

TORQUE TO 35 FT-LBS (LUBRICATED) / 45 FT-LBS (DRY).



DETAIL H
SCALE 1 : 6

9. ATTACH [49609] TO THE GUARD

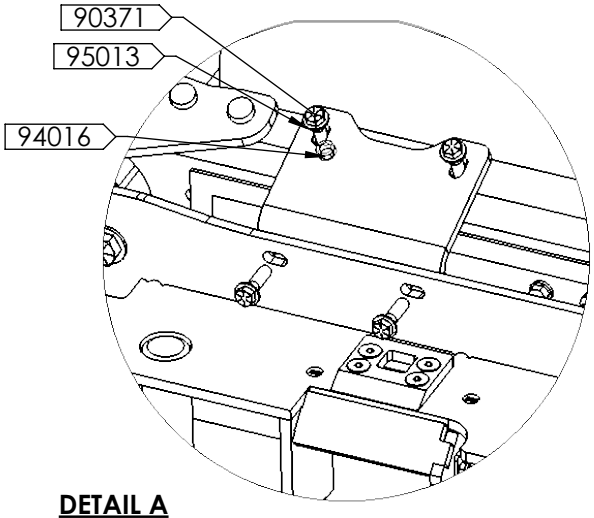
USING THE FOLLOWING HARDWARE:

8 X [90371] BOLTS

16 X [95013] WASHERS

8 X [94016] NUTS

TORQUE TO 35 FT-LBS (LUBRICATED) / 45 FT-LBS (DRY).



DETAIL A
SCALE 1 : 6

INSTALLATION PROCEDURE

NOTE:

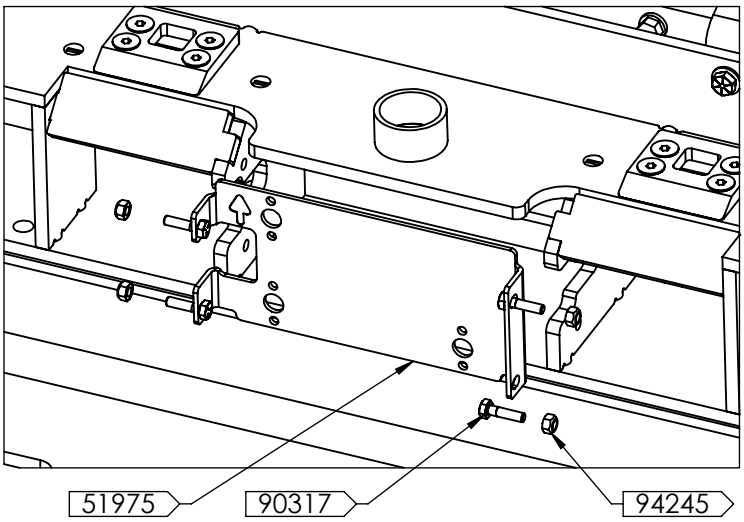
RADAR MUST BE ALIGNED AND RE-CALIBRATED AFTER GUARD INSTALLATION. ALIGNMENT AND CALIBRATION CAN ONLY BE DONE BY AUTHORIZED PERSONNEL.

10. INSTALL RADAR ONTO 51975 REUSING THE ORIGINAL HARDWARE:

3 X ADJUSTABLE SCREWS

3 X ADJUSTABLE STANDOFFS

6 X TORX SCREWS



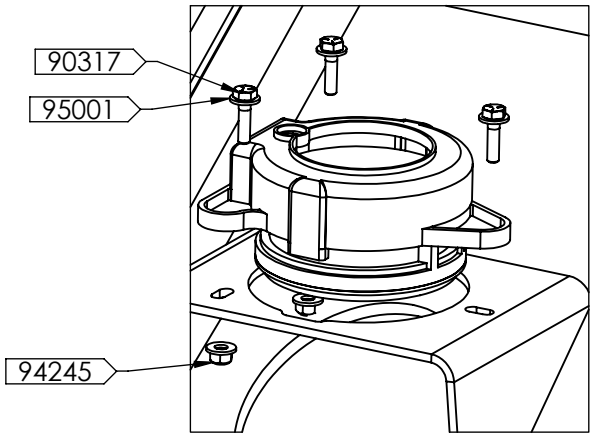
11. RECONNECT THE RADAR TO THE TRUCK (USE BRACKET SLOT TO FISH RADAR CABLE).

12. MOUNT THE ASSEMBLY INTO THE GUARD USING THE FOLLOWING HARDWARE:

4 X 90317 BOLTS

4 X 94245 NUTS

TORQUE TO 6 FT-LBS (LUBRICATED) / 8 FT-LBS (DRY).



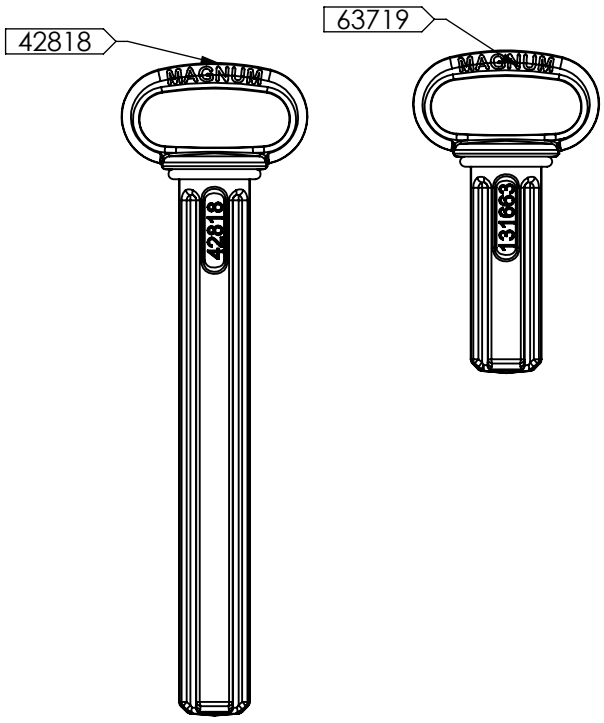
13. MOUNT THE FOG LIGHTS IN THE GUARD USING THE FOLLWING HARDWARE:

6 X 90317 BOLTS

12 X 95001 WASHERS

6 X 94245 NUTS

TORQUE TO 6 FT-LBS (LUBRICATED) / 8 FT-LBS (DRY).



14. 42818 COMES INSTALLED ON THE GUARD. HOWEVER, IF THE TRUCK IS EQUIPPED WITH RADAR SWITCH IT TO 63719 . THE LONGER PIN IS NOT COMPATIBLE WITH THE RADAR.

CLOSE THE GUARD TO COMPLETE THE INSTALL.

THANK YOU FOR CHOOSING MAGNUM.