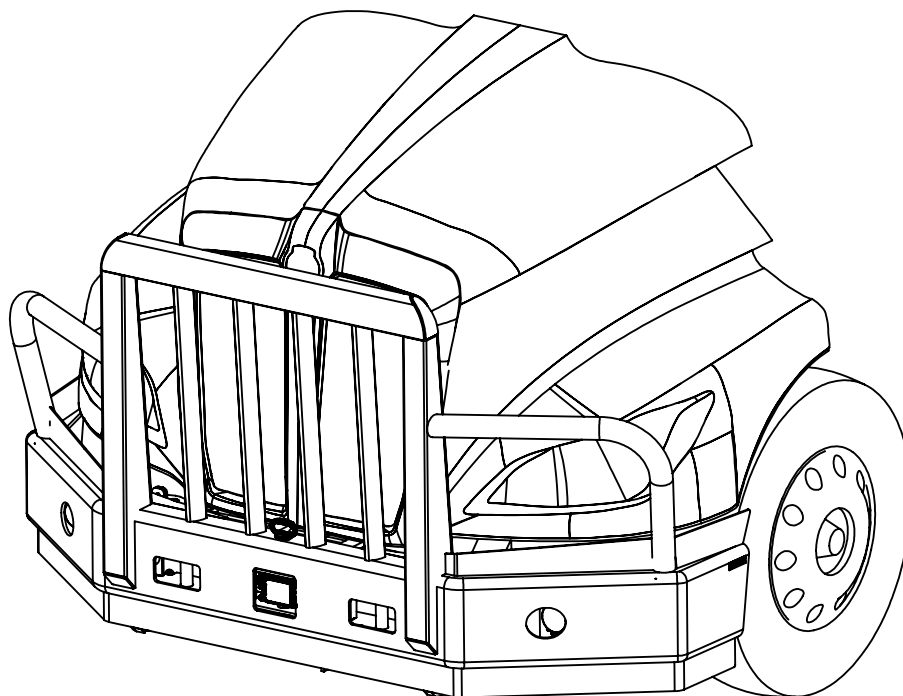




INSTALLATION GUIDE

MODEL NUMBER: 17291

TRUCK MODEL: 2021+ KENWORTH T-680



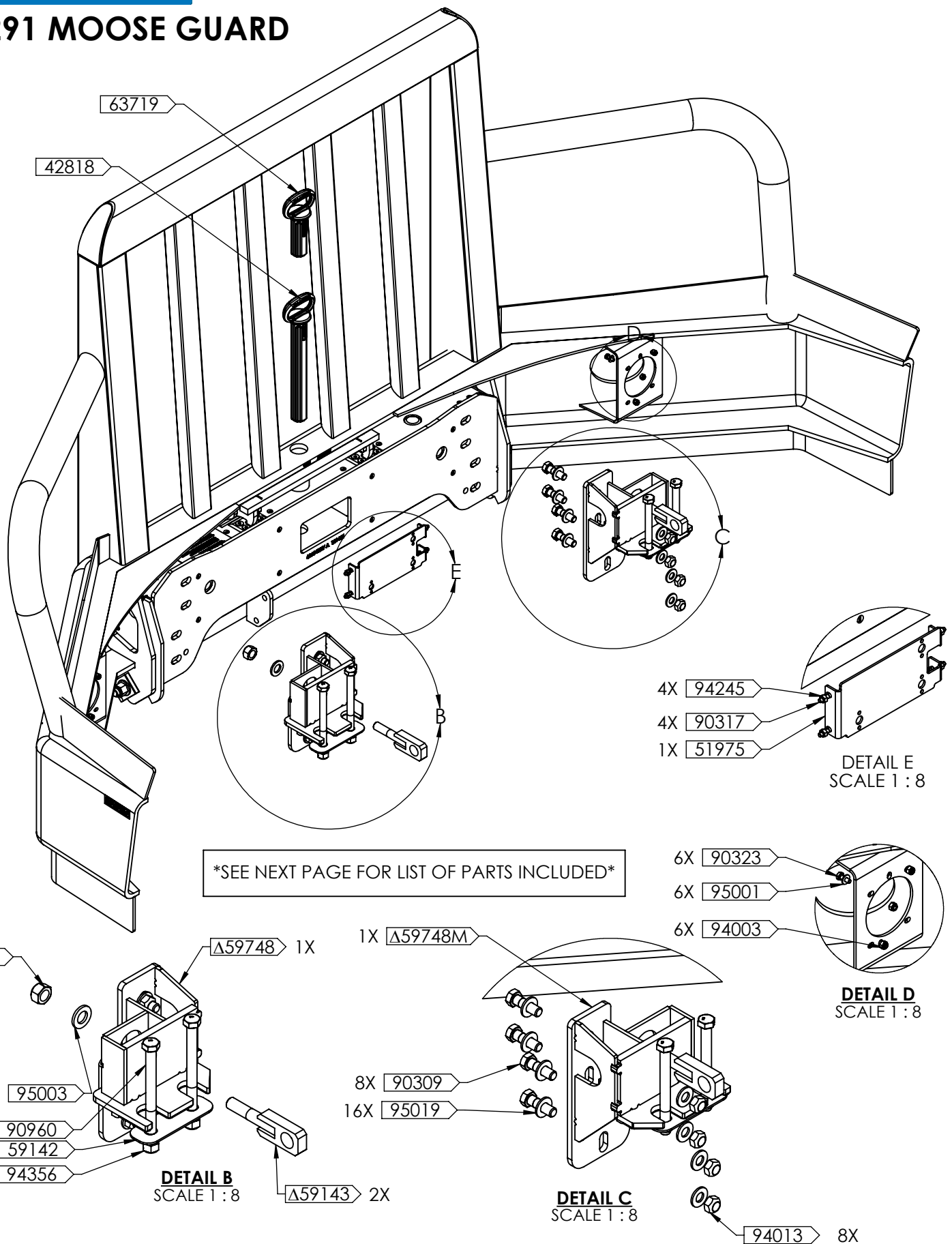
IMPORTANT INFORMATION

- 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.

17291 MOOSE GUARD





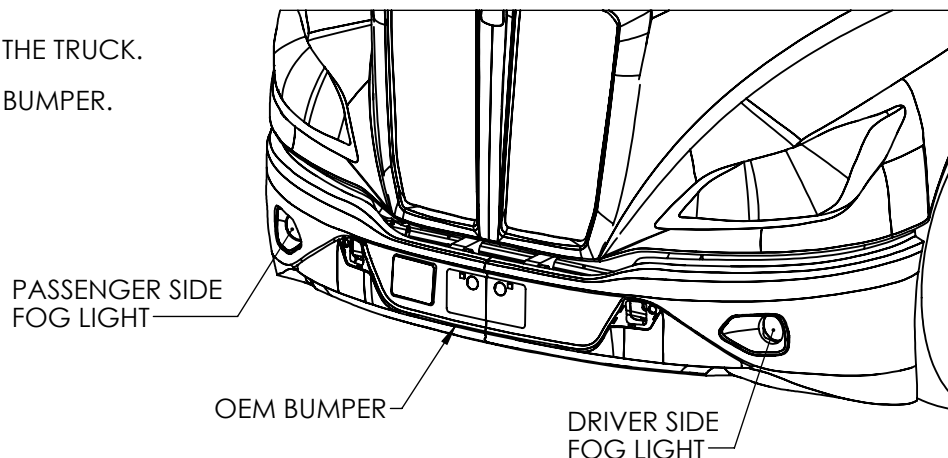
ASSEMBLY KIT PARTS

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
51975	BENDIX RADAR (FLR-20) MOUNTING BRACKET (VER 3)	5052-H32	1/8" X 10 29/32" X 4 1/4"	.47	127701	1
59142	SPACER PLATE	44W	6" X 2" X 1/8" THK	.38	130244	2
59143	TOW MOUNT ASSEMBLY		ASSEMBLY	1.4	130245	2
59748	MOUNT BRACET ASSEMBLY		ASSEMBLY	16.7	130464	1
59748M	MOUNT BRACET ASSEMBLY - MIRROR		ASSEMBLY	16.2	130465	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	8
90317	HEX CAPSCREW - PLATED	GR. 5	1/4" NC X 1"	.022	101551	4
90323	HEX HEAD BOLT - PLATED	GR. 5	1/4" NC X 3/4"	.019	101564	6
90960	HEX CAPSCREW - PLATED	10.9	M16 X 2 X 160	.64	130087	4
94003	NYLOC HEX NUT - PLATED	GR. 2	1/4" NC	.0097	101459	6
94006	STOVER NUT - PLATED	GR. C	3/4" NC	.12	101477	2
94013	STOVER NUT - PLATED	GR. C	5/8" NC	.063	101481	8
94245	STOVER NUT - PLATED	GR. C	1/4 NC	.0082	101476	4
94356	ALL METAL LOCK NUT - PLATED (STOVER)	CL 10	M16 X 2	.078	130088	4
95001	FLAT WASHER - PLATED	GR. 2	1/4" DIA SAE	.0043	102157	6
95003	FLAT WASHER - PLATED	GR. 8	3/4" DIA SAE	.055	102169	2
95019	FLAT WASHER - PLATED	GR. 8	5/8" DIA SAE	.035	102172	16

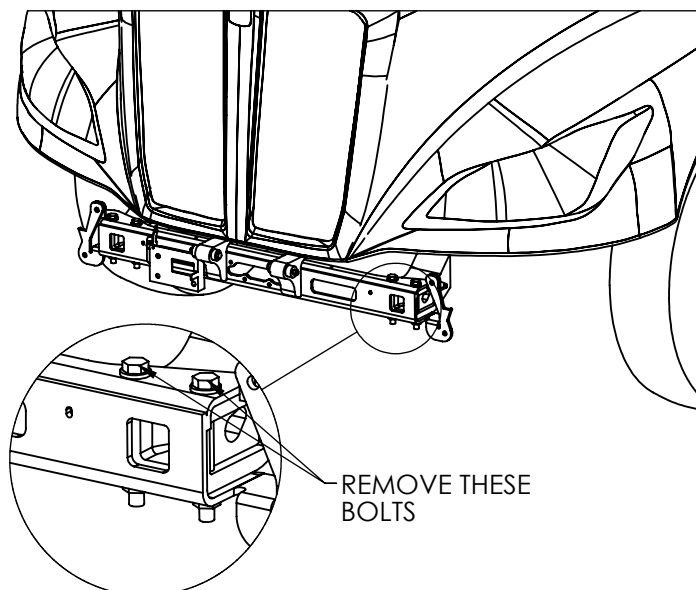


INSTALLATION PROCEDURE

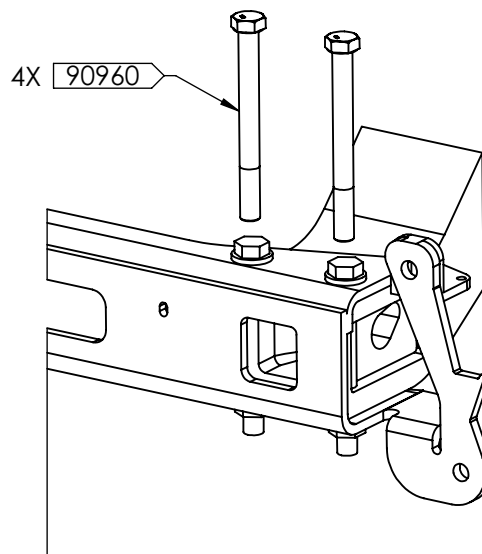
1. UNINSTALL THE OEM BUMPER FROM THE TRUCK.
UNINSTALL THE FOG LIGHTS FROM THE BUMPER.



2. REMOVE THE FOUR M16 BOLTS FROM BOTH
SIDES OF THE FRAME.



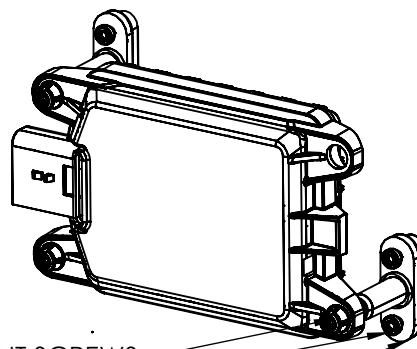
3. REPLACE THE BOLTS FROM THE FRAME WITH THE
4X **90960** LONGER BOLTS PROVIDED. REUSE
THE REST OF THE EXISTING HARDWARE. TORQUE TO
THE FACTORY SPECIFICATIONS.



INSTALLATION PROCEDURE

4. 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:

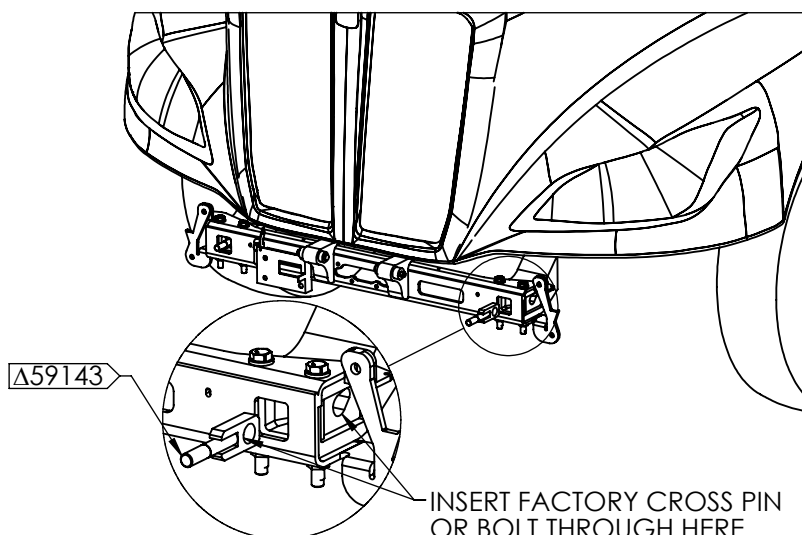
- 3 X ADJUSTABLE STANDOFFS
- 3 X ADJUSTMENT SCREWS
- 6 X TORX SCREWS



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

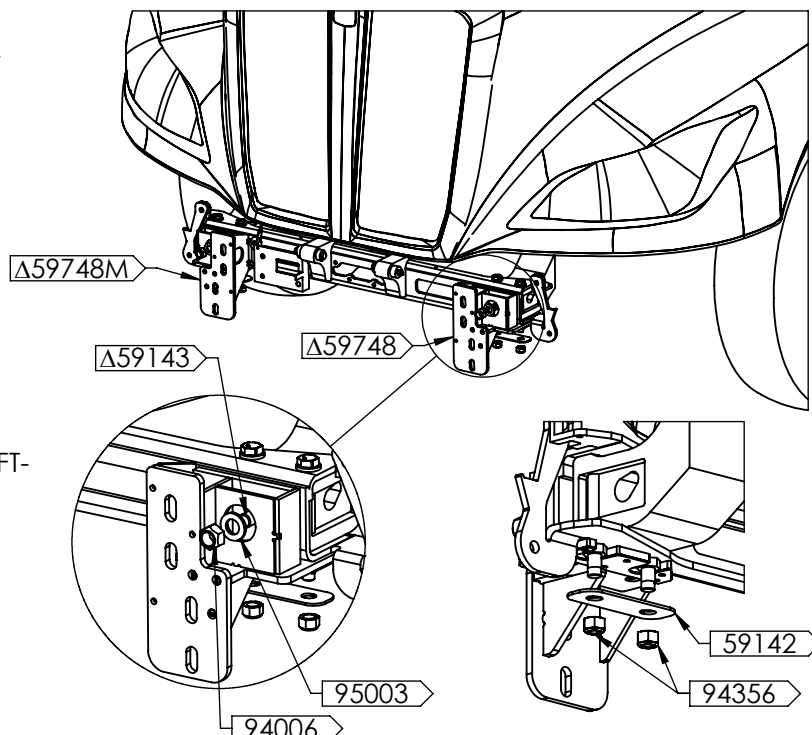
5. INSTALL **Δ59143** IN BOTH TOW RECIEVERS. SECURE IT IN PLACE WITH THE FACTORY CROSS PIN OR A 1" GR.8 BOLT WITH WASHERS AND A LOCK NUT (NOT SUPPLIED).

6. INSTALL **Δ59748** ON THE DRIVER SIDE AND **Δ59748M** ON THE PASSENGER SIDE. SLIDE THE MOUNT BRACKETS OVER **Δ59143** SO THE STUD PASS THROUGH THE HOLE IN THE BRACKET.



7. ADD A **95003** WASHER AND A **94006** NUT TO **Δ59143**. TORQUE TO 200 FT-LBS (LUBRICATED) / 260 FT-LBS (DRY).

8. ADD THE **59142** WASHER PLATE TO THE BOTTOM BOLTS. SECURE IT DOWN WITH TWO **94356** NUTS. TORQUE TO TORQUE TO 160 FT-LBS (LUBRICATED) / 210 FT-LBS (DRY).



INSTALLATION PROCEDURE

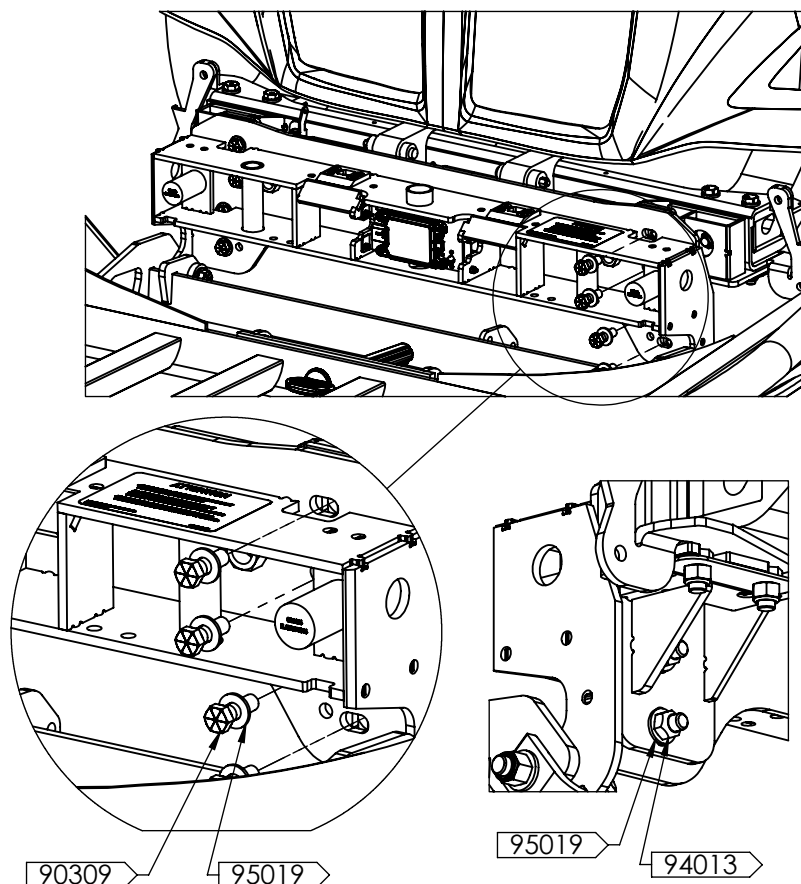
9. ATTACH THE GUARD TO THE MOUNT BRACKETS USING THE FOLLOWING HARDWARE:

8 X 90309 BOLTS

16 X 95019 WASHERS

8 X 94013 NUTS

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



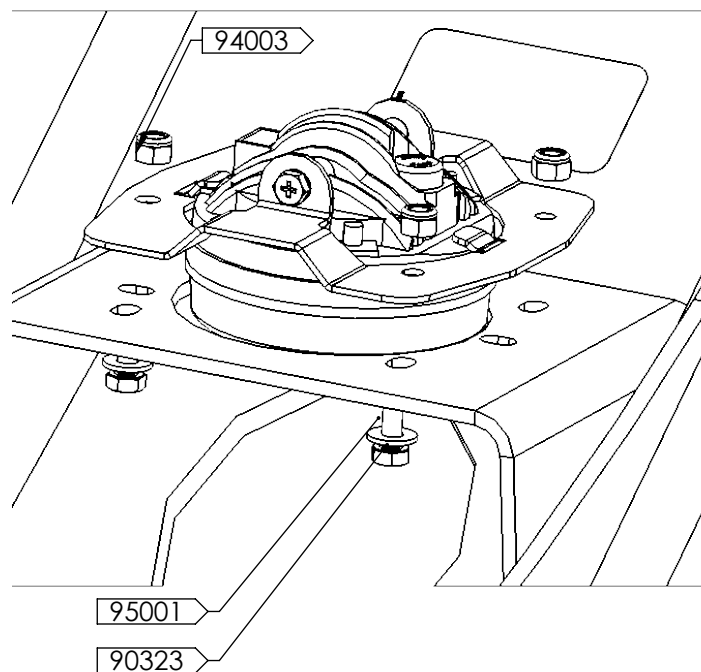
10. INSTALL THE FOG LIGHTS INTO THE GUARD. SECURE THE FOG LIGHTS USING THE FOLLOWING HARDWARE:

6 X 90323 BOLTS

6 X 95001 WASHERS

6 X 94003 NUTS

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

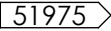


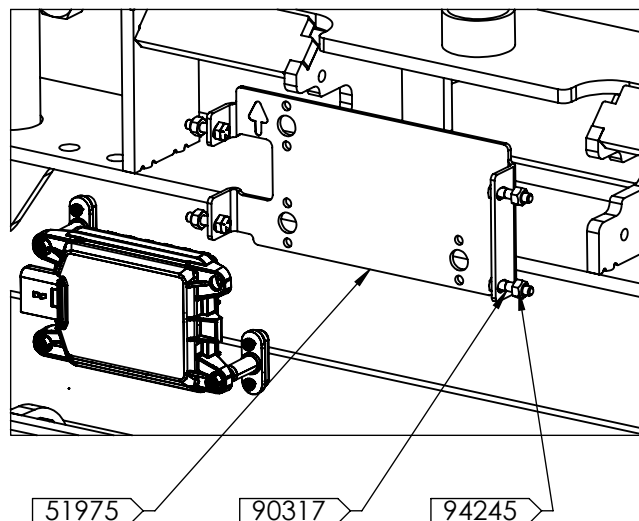


INSTALLATION PROCEDURE

NOTE:

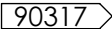
RADAR MUST BE ALIGNED AND RE-CALIBRATED AFTER GUARD INSTALLATION. ALIGNMENT AND CALIBRATION CAN ONLY BE DONE BY AUTHORIZED PERSONNEL.

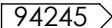
11. INSTALL RADAR ONTO  REUSING THE ORIGINAL HARDWARE:
3 X ADJUSTABLE SCREWS
3 X ADJUSTABLE STANDOFFS
6 X TORX SCREWS



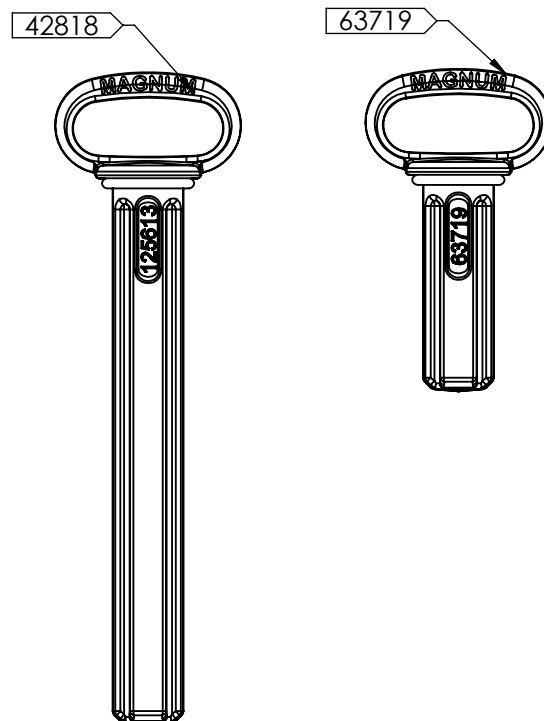
12. RECONNECT THE RADAR TO THE TRUCK (USE BRACKET SLOT TO FISH RADAR CABLE).

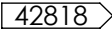
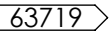
13. MOUNT THE ASSEMBLY INTO THE GUARD USING THE FOLLOWING HARDWARE:

4 X  BOLTS

4 X  NUTS

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



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

CLOSE THE GUARD TO COMPLETE THE INSTALL.

THANK YOU FOR CHOOSING MAGNUM.