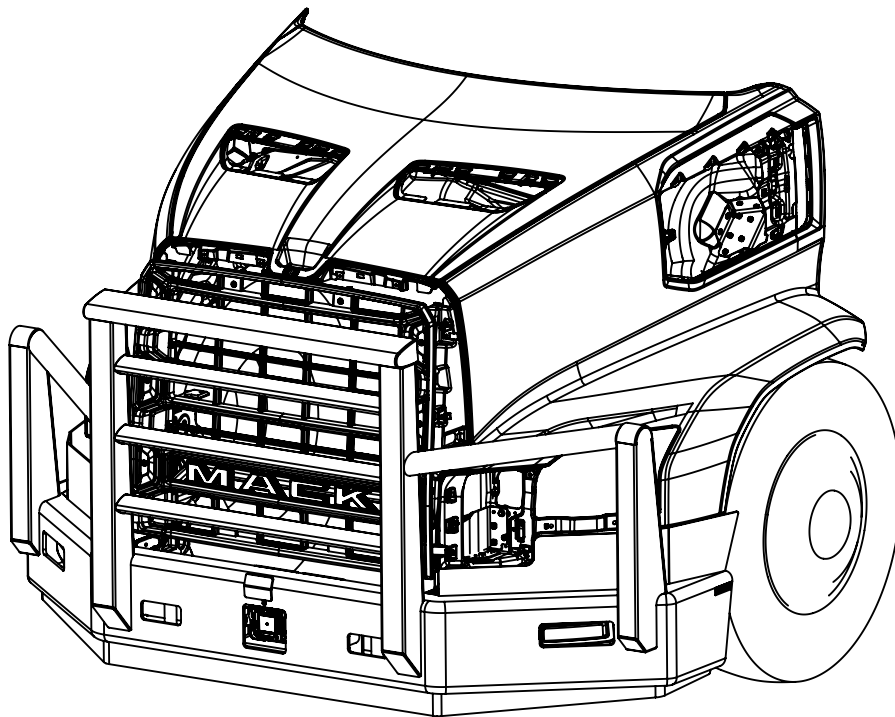




INSTALLATION GUIDE

MODEL NUMBER: 17302

TRUCK MODEL: 2025+ MACK PIONEER/ANTHEM



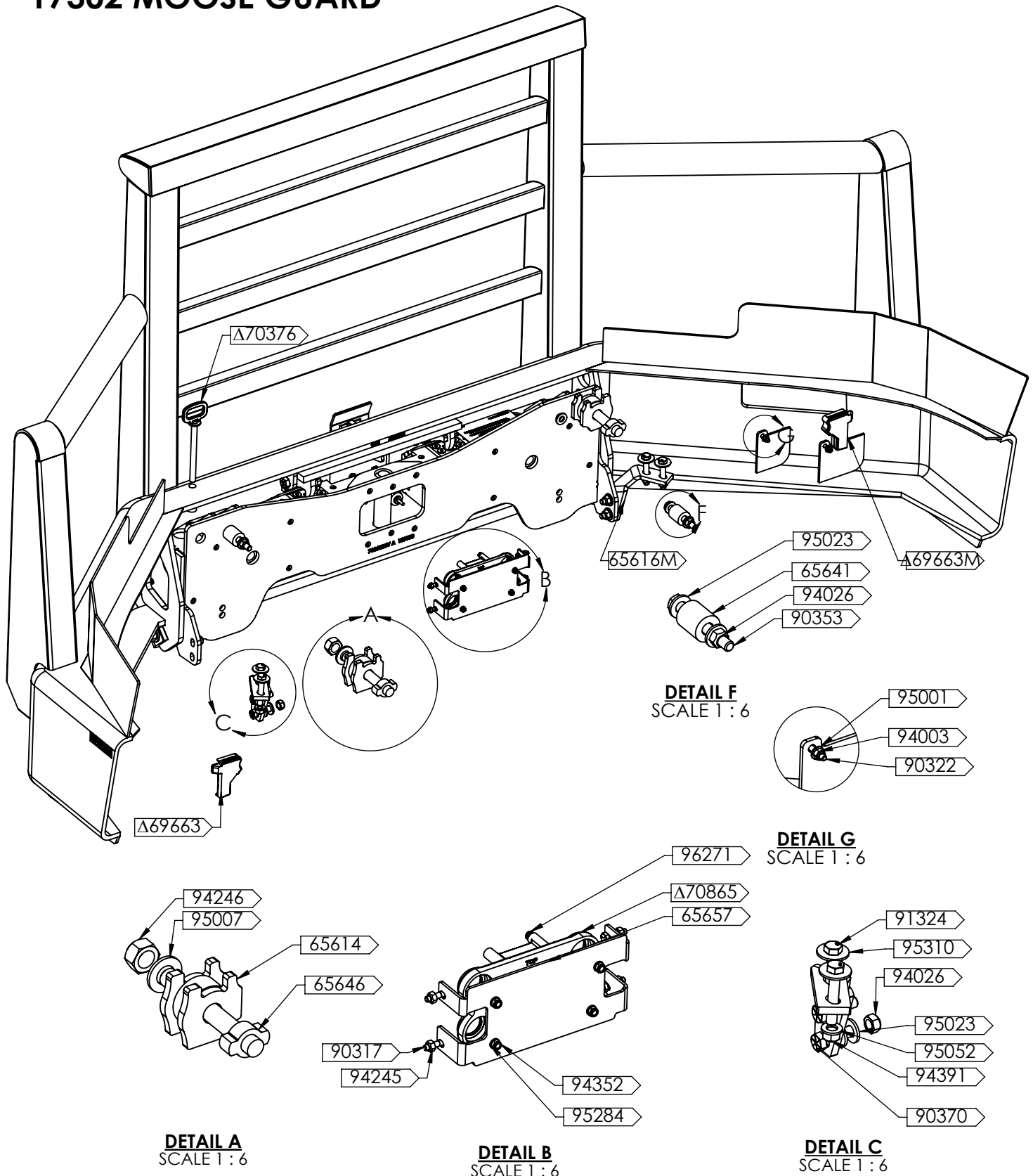
IMPORTANT INFORMATION

- 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.

17302 MOOSE GUARD



SEE NEXT PAGE FOR LIST OF PARTS INCLUDED



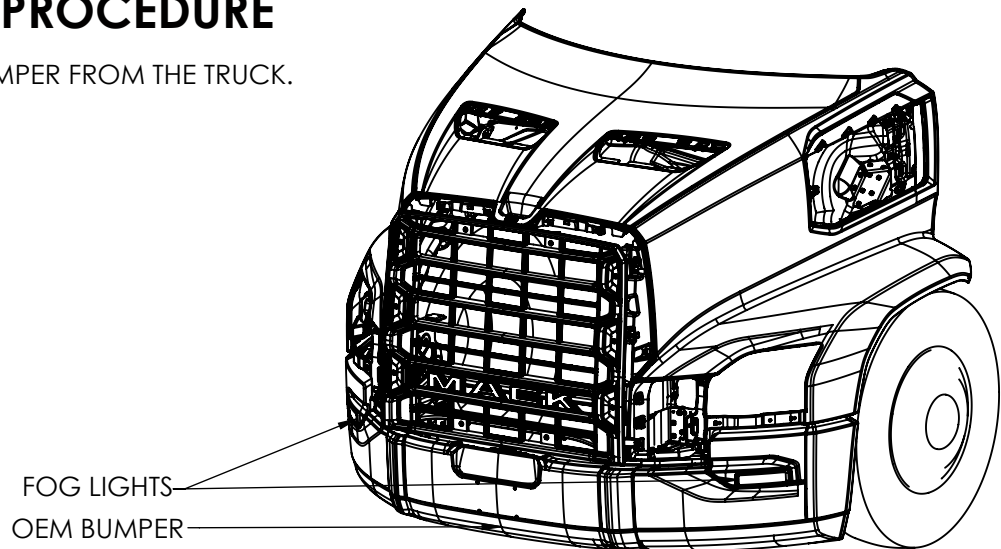
ASSEMBLY KIT PARTS

ITEM#	DESCRIPTION	MAT'L	DIMENSIONS	STOCK #	QTY.
65657	BENDIX RADAR MOUNTING BRACKET	5052-H32	SEE PA - 65657	132262	1
65641	SPACER PIPE	A-53	SEE PA - 65641	132254	2
65616	MOUNT BRACKET	44W	SEE PB - 65616	132245	1
65616M	MOUNT BRACKET - MIRROR	44W	SEE PB - 65616M	132246	1
65646	TOW MOUNT ASSY		SEE AA - 65646	132257	2
65614	TOW RECEIVER SPACER WELDMENT		SEE AA - 65614	132243	2
95001	FLAT WASHER - PLATED	GR. 2	1/4" DIA SAE	102157	12
90322	HEX HEAD BOLT - PLATED	GR. 5	1/4" NC X 1 1/4"	101553	6
94003	NYLOC HEX NUT - PLATED	GR. 2	1/4" NC	101459	6
91324	HEX CAPSCREW - PLATED	10.9	M12 X 1.75 X 70	132354	4
95310	FLAT WASHER - PLATED	DIN 125A EQ GR2	M12	132355	4
94391	ALL METAL LOCK NUT - PLATED (STOVER)	CL 10	M12 X 1.75	110572	4
95052	FLAT WASHER - PLATED	DIN 125A EQ GR2	M12	108503	4
94026	STOVER NUT - PLATED	GR. C	1/2" NC	101475	6
95023	FLAT WASHER - PLATED	GR. 8	1/2" DIA SAE	102167	16
90353	HEX HEAD BOLT - PLATED	GR. 8	1/2" NC X 4"	101774	2
94246	STOVER NUT - PLATED	GR. C	7/8 NC	101480	2
95007	FLAT WASHER - PLATED	GR. 8	7/8" DIA SAE	102173	2
90370	HEX HEAD BOLT - PLATED	GR. 8	1/2" NC X 1 3/4"	101763	4
95284	FLAT WASHER - PLATED	STEEL	M6 DIN 125	126216	4
94352	NYLOC HEX NUT - PLATED	CL 8	M6 X 1	129691	4
94245	STOVER NUT - PLATED	GR. C	1/4 NC	101476	4
90317	HEX CAPSCREW - PLATED	GR. 5	1/4" NC X 1"	101551	4
70376	LATCH PIN ASSEMBLY		SEE AA - 70376	133584	1
69663	MACK LIGHT VENT COVER ASSEMBLY		SEEA - 69663	133322	1
69663M	MACK LIGHT VENT COVER ASSEMBLY - MIRROR		SEE AA - 69663M	133323	1
70865	RADAR BRACKET ADAPTER ASSY		SEE - 70865	133721	1
96271	MACH SCREW - SS	T-304	M5 X 16	133748	3

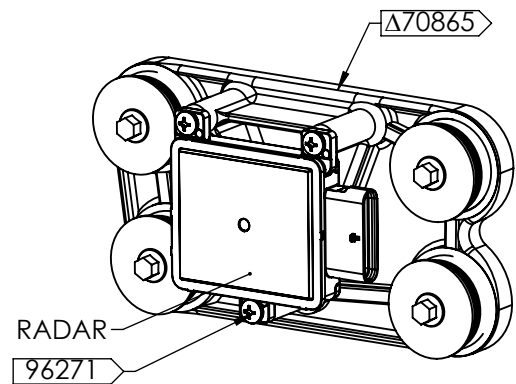
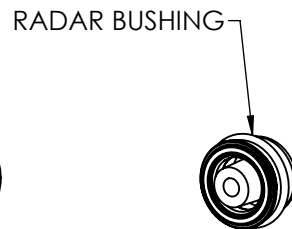
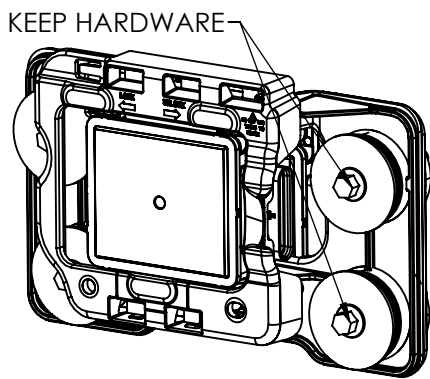


INSTALLATION PROCEDURE

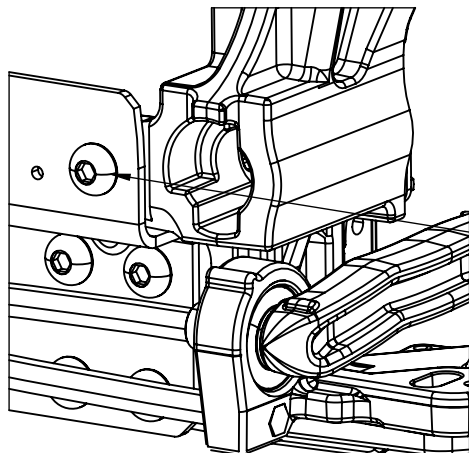
1. UNINSTALL THE OEM BUMPER FROM THE TRUCK.



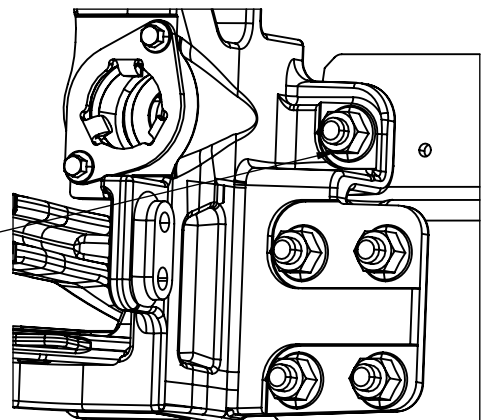
2. IF RADAR IS EQUIPPED ON THE TRUCK, IT MUST BE REMOVED BEFORE INSTALLING THE GUARD. FOR THE MACK PIONEER THE ORIGINAL RADAR BRACKET AND HARDWARE CAN BE REUSED. FOR THE MACK ANTHEM THE RADAR BUSHINGS MUST BE REMOVED FROM THE RADAR BRACKET AND INSTALLED IN THE 70865 BRACKET. THE RADAR CAN BE ATTACHED TO THIS BRACKET USING 96271 SCREWS.



3. REMOVE THE FOLLOWING SCREW AND NUT FROM BOTH SIDES OF THE TRUCK.

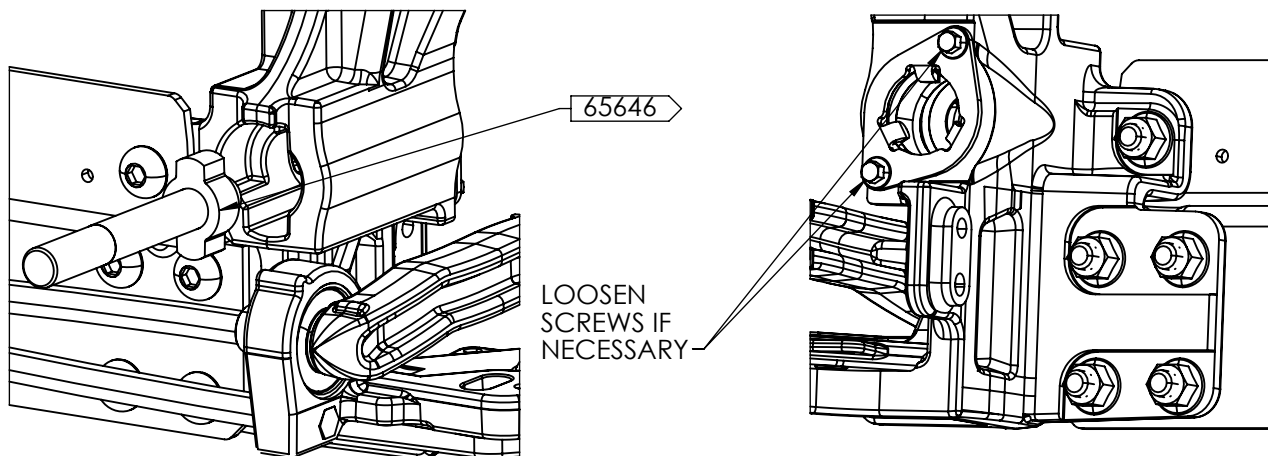


REMOVE SCREW
AND NUT

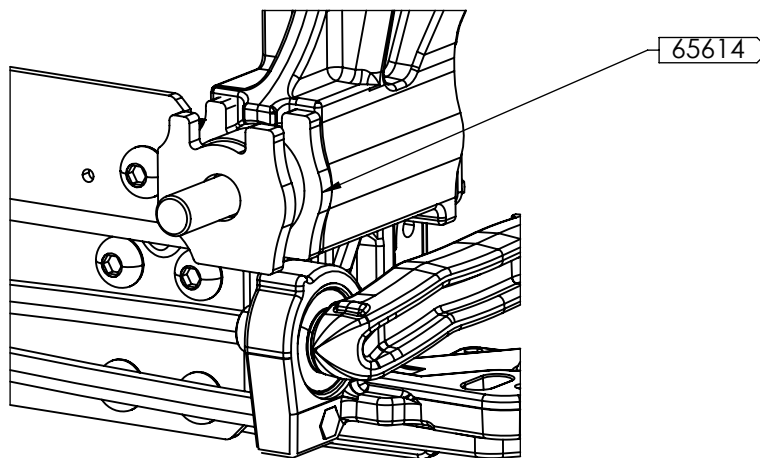


INSTALLATION PROCEDURE

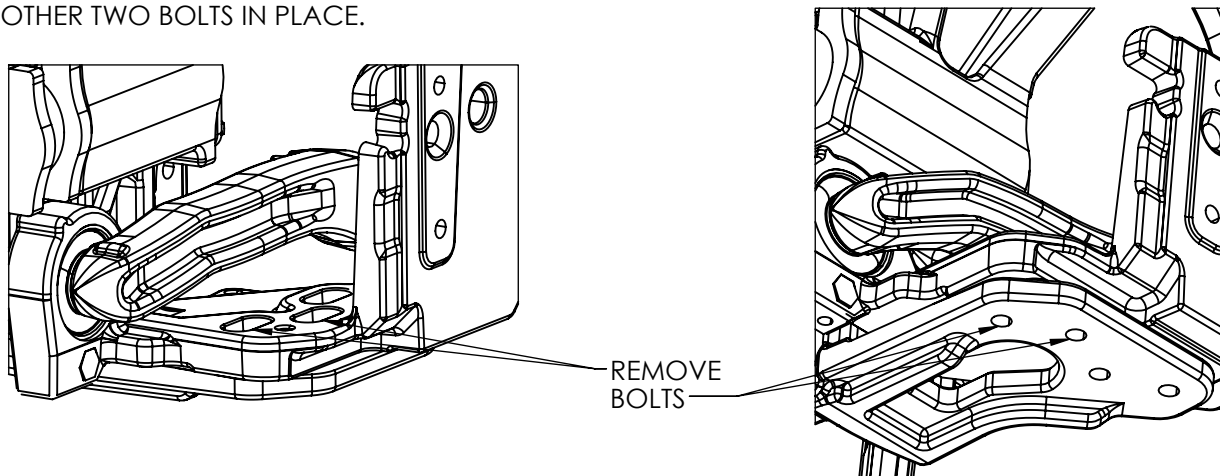
4. INSERT THE TOW MOUNT ASSEMBLY (65646) INTO THE RECEIVER AS SHOWN IN THE FIGURE BELOW. PUSH THE TOW MOUNT ASSEMBLY TOWARDS THE BACK OF THE TOW RECEIVER TO COMPRESS THE SPRING. TURN THE TOW MOUNT ASSEMBLY A QUARTER TURN AND LET THE SPRING LOCK THE TOW MOUNT INTO THE TOW RECEIVER. REPEAT FOR OTHER SIDE OF TRUCK. IF THE TOW MOUNT ASSEMBLY IS TOO DIFFICULT TO INSTALL THE BOLTS HOLDING THE SPRING IN PLACE CAN BE LOOSENED TO REDUCE THE COMPRESSION ON THE SPRING. THESE BOLTS ARE FOUND ON THE BACK OF THE TOW RECEIVER.



5. INSERT THE TOW RECEIVER SPACER WELDMENT (65614) OVER THE TOW MOUNT ASSEMBLY (65646) UNTIL IT CONTACTS THE FRONT FACE OF THE TOW RECEIVER. REPEAT FOR OTHER SIDE OF TRUCK.



6. REMOVE THE TWO BOLTS IN THE LOCATIONS SHOWN BELOW ON BOTH SIDES OF THE TRUCK. KEEP THE OTHER TWO BOLTS IN PLACE.

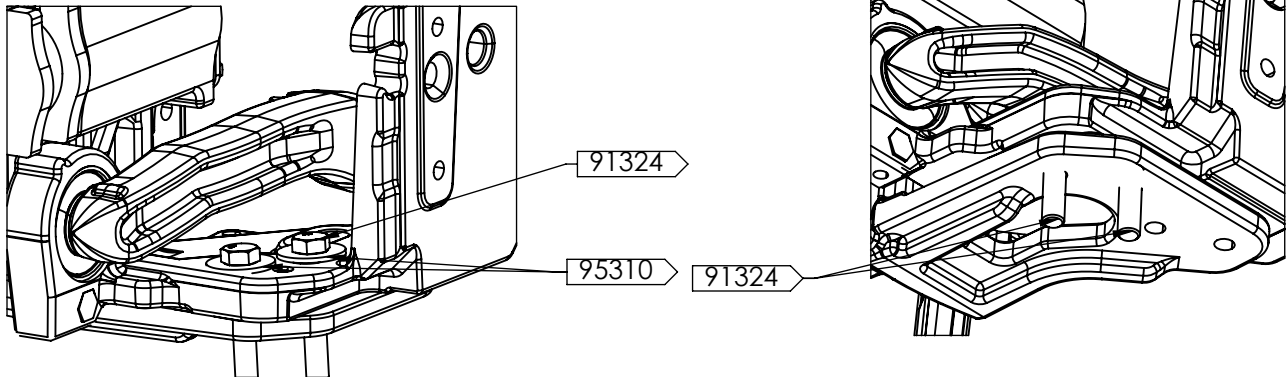


INSTALLATION PROCEDURE

7. REPLACE THE REMOVED BOLTS WITH THE SUPPLIED HARDWARE (TORQUE TO THE FACTORY SPECIFICATIONS):

- 4 X **91324** (M12 X 1.75 X 70 GR.10.9 HEX BOLTS)

- 4 X **95310** (M12 FENDER WASHER)

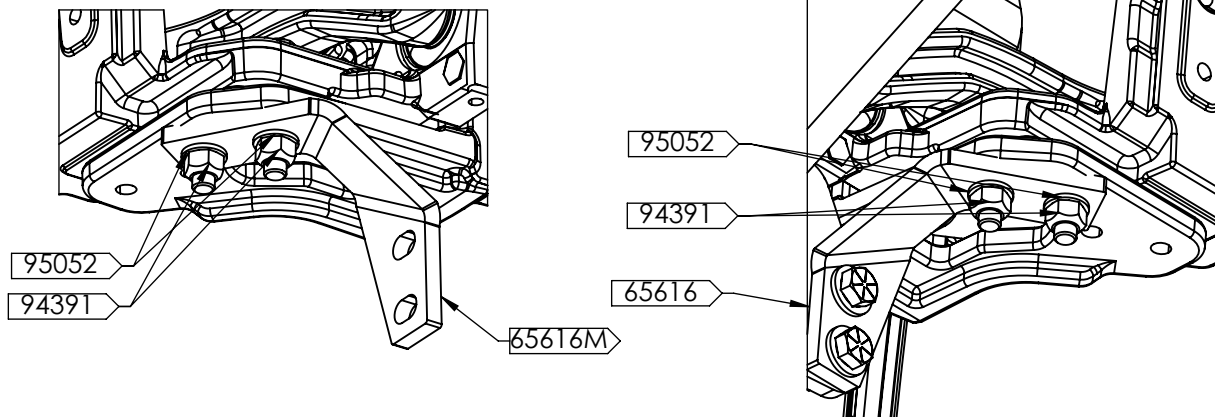


8. ATTACH THE MOUNT BRACKET (**65616**) TO THE DRIVER SIDE OF THE TRUCK AND MOUNT BRACKET MIRROR (**65616M**) TO THE PASSENGER SIDE OF THE TRUCK. SECURE THE BRACKETS USING THE FOLLOWING HARDWARE:

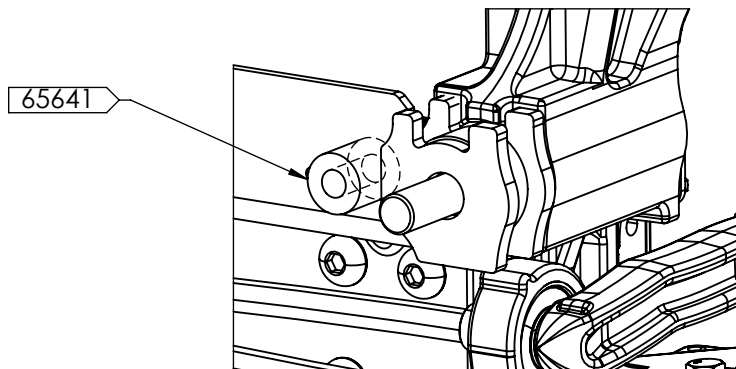
- 4 X **94391** (M12 X 1.75 CL10 STOVER NUT)

- 4 X **95052** (M12 FLAT WASHER 8.8)

TORQUE TO 35 FT-LBS (LUBRICATED) / 50 FT-LBS (DRY).

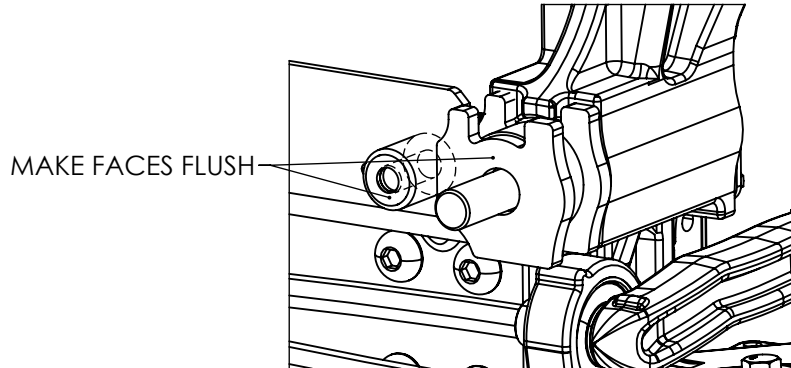


9. POSITION THE SPACER PIPE (**65641**) IN FRONT OF THE FRAME WHERE THE SCREWS WERE REMOVED IN STEP 3.



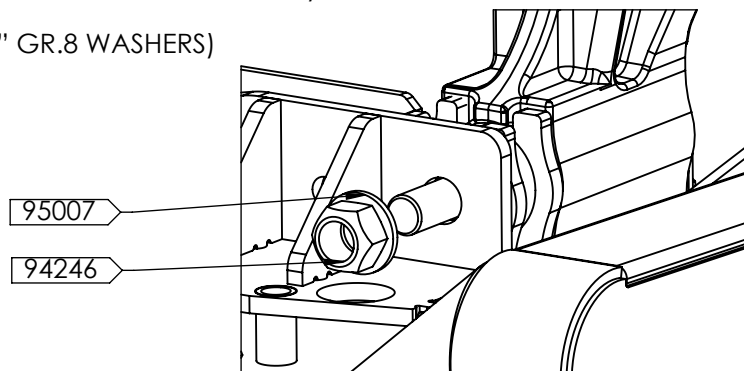
INSTALLATION PROCEDURE

10. ADD ADDITIONAL WASHERS IN FRONT OF THE SPACERS AS REQUIRED. TWO ADDITIONAL 1/2" WASHERS ARE PROVIDED FOR EACH SIDE OF THE TRUCK TO ENSURE PROPER CONTACT TO THE MOOSE GUARD. THE TWO FACES IN THE IMAGE BELOW SHOULD BE FLUSH WITH ONE ANOTHER.



11. SECURE THE TOW MOUNT ASSEMBLY WITH THE FOLLOWING HARDWARE:

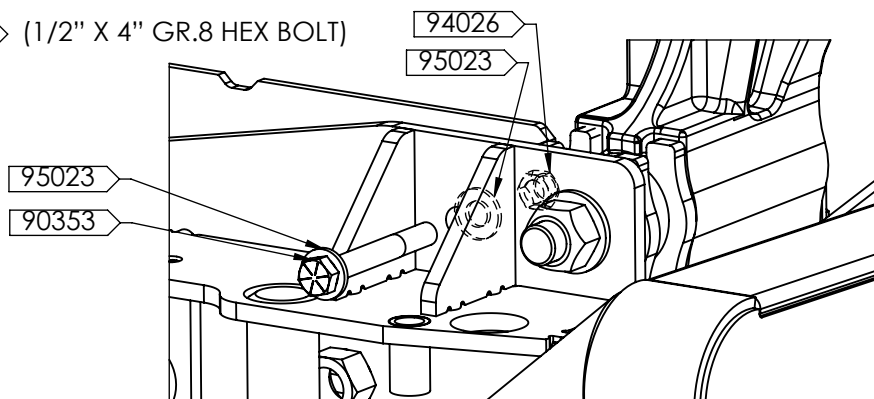
- 2 X **94246** (7/8" NC GR.C STOVER NUTS)
- 2 X **95007** (7/8" GR.8 WASHERS)



TORQUE TO 160 FT-LBS (LUBRICATED) / 210 FT-LBS (DRY). REPEAT FOR OTHER SIDE OF TRUCK.

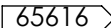
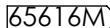
12. ATTACH THE GUARD USING THE FOLLOWING HARDWARE THROUGH THE SPACER PIPE:

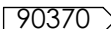
- 2 X **94026** (1/2" NC GR.C NUTS)
- 2 X **95023** (1/2" GR.8 WASHERS)
- 2 X **90353** (1/2" X 4" GR.8 HEX BOLT)



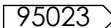
TORQUE TO 53 FT-LBS (LUBRICATED) / 107 FT-LBS (DRY). REPEAT FOR OTHER SIDE OF TRUCK.

INSTALLATION PROCEDURE

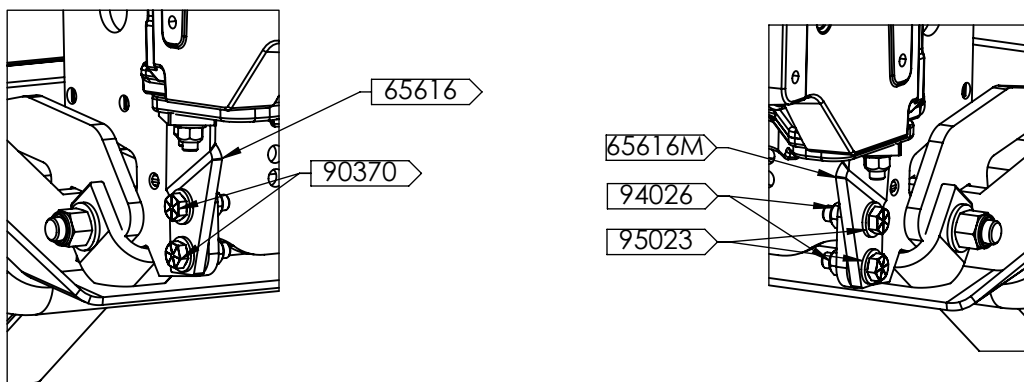
13. ATTACH THE GUARD TO THE MOUNT BRACKETS ( & ) USING THE FOLLOWING HARDWARE:

- 4 X  (1/2" NC X 1 3/4" GR.8 HEX BOLTS)

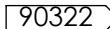
- 4 X  (1/2" NC GR.C STOVER NUTS)

- 8 X  (1/2" GR.8 WASHERS)

TORQUE TO 53 FT-LBS (LUBRICATED) / 107 FT-LBS (DRY). REPEAT FOR OTHER SIDE OF TRUCK.



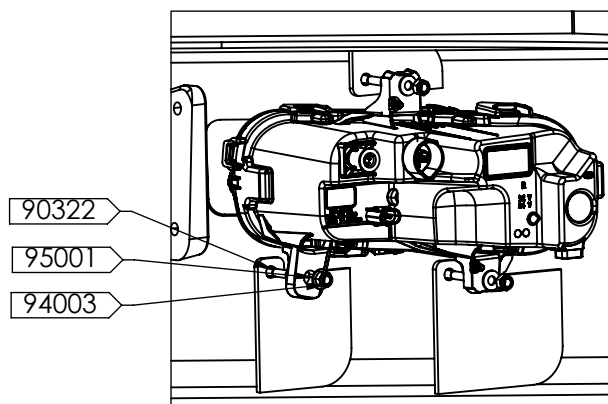
14. ATTACH THE FOG LIGHTS TO THE GUARD WITH THE FOLLOWING HARDWARE:

- 6 X  (1/4" NC X 1 1/4" GR.5 HEX BOLTS)

- 6 X  (1/4" NC GR.2 NYLOC NUTS)

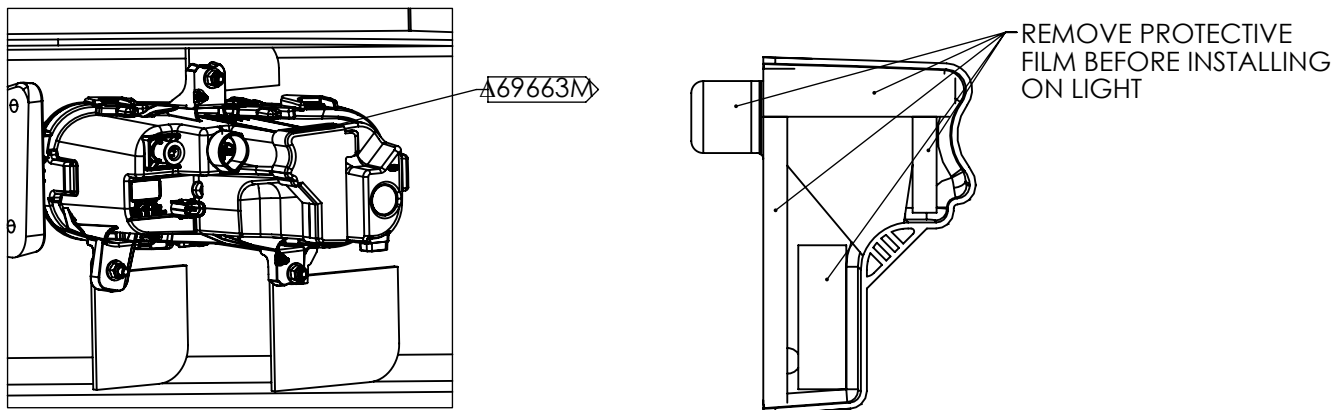
- 12 X  (1/4" GR.2 WASHERS)

TORQUE TO 6 FT-LBS (LUBRICATED) / 8 FT-LBS (DRY). REPEAT FOR OTHER SIDE OF TRUCK.



INSTALLATION PROCEDURE

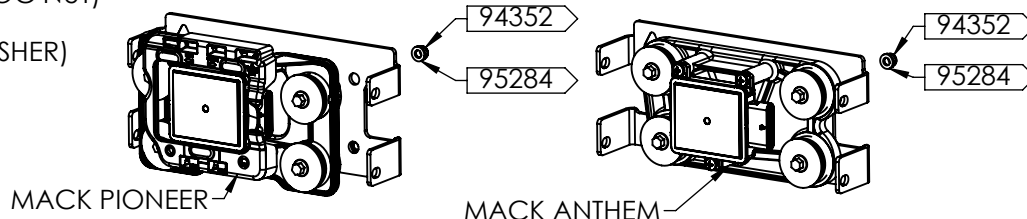
15. ATTACH THE VENT COVERS TO THE BACK SIDE OF THE FOG LIGHTS BY REMOVING THE PROTECTIVE FILM ON THE DOUBLE-SIDED TAPE AND PRESSING THE COVER FIRMLY ONTO THE FOG LIGHT. 69663 SHOULD BE INSTALLED ON THE DRIVER SIDE LIGHT AND 69663M SHOULD BE INSTALLED ON THE PASSENGER SIDE LIGHT. BEFORE APPLYING THE COVERS, CLEAN THE DESIGNATED AREA ON THE LAMP BODY IF NECESSARY.



16. ATTACH THE RADAR TO THE RADAR BRACKET USING THE ORIGINAL HARDWARE AND SUPPLIED NUTS AND WASHERS (TORQUE TO FACTORY SPECIFICATIONS):

- 4 X 94352 (M6 X 1.0 NYLOC NUT)

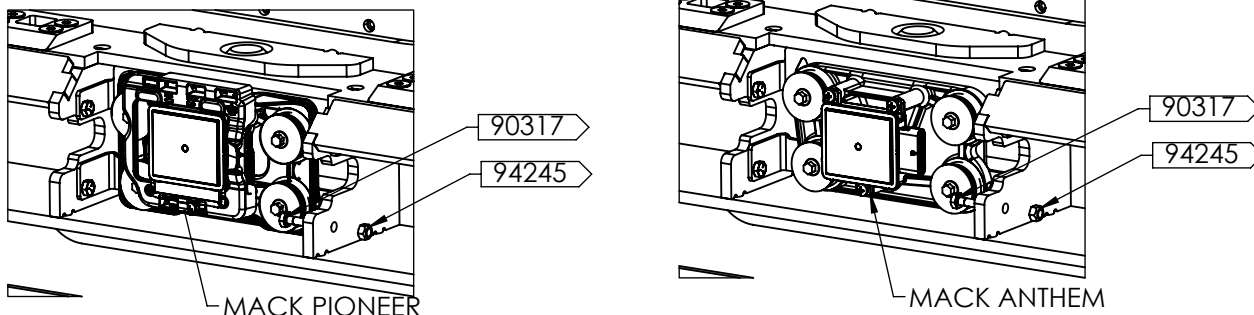
- 4 X 95284 (M6 FLAST WASHER)



17. SECURE THE RADAR PLATE ASSEMBLY TO THE GUARD USING THE FOLLOWING HARDWARE:

- 4 X 90317 (1/4" NC X 1" GR.5 HEX BOLT)

- 4 X 94245 (1/4" NC GR.C STOVER NUT)



TORQUE TO 6 FT-LBS (LUBRICATED) / 8 FT-LBS (DRY). REPEAT FOR OTHER SIDE OF TRUCK.

IF THERE IS NO RADAR THE RADAR PLATE CAN BE REMOVED TO GIVE ACCESS TO THE CENTER TOW BAR.

18. CLOSE THE BUMPER TO COMPLETE THE INSTALL. THANK YOU FOR CHOOSING MAGNUM.

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