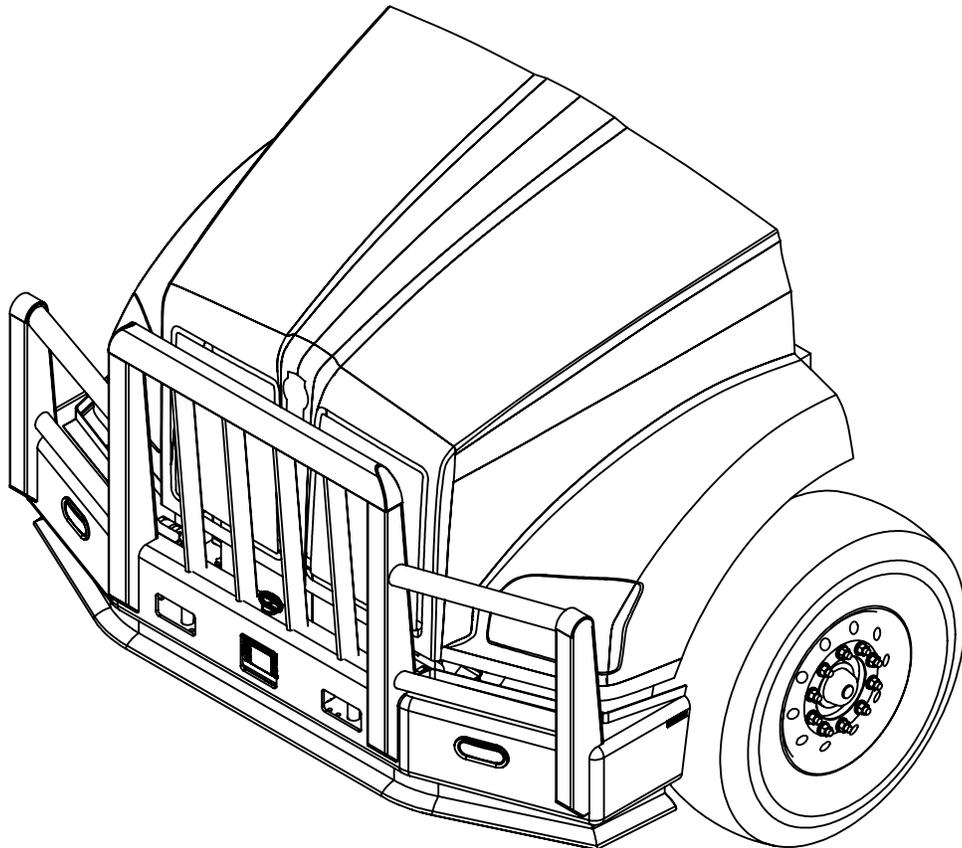




# INSTALLATION GUIDE

MODEL NUMBER: 17290

TRUCK MODEL: 2014+ KENWORTH T-880



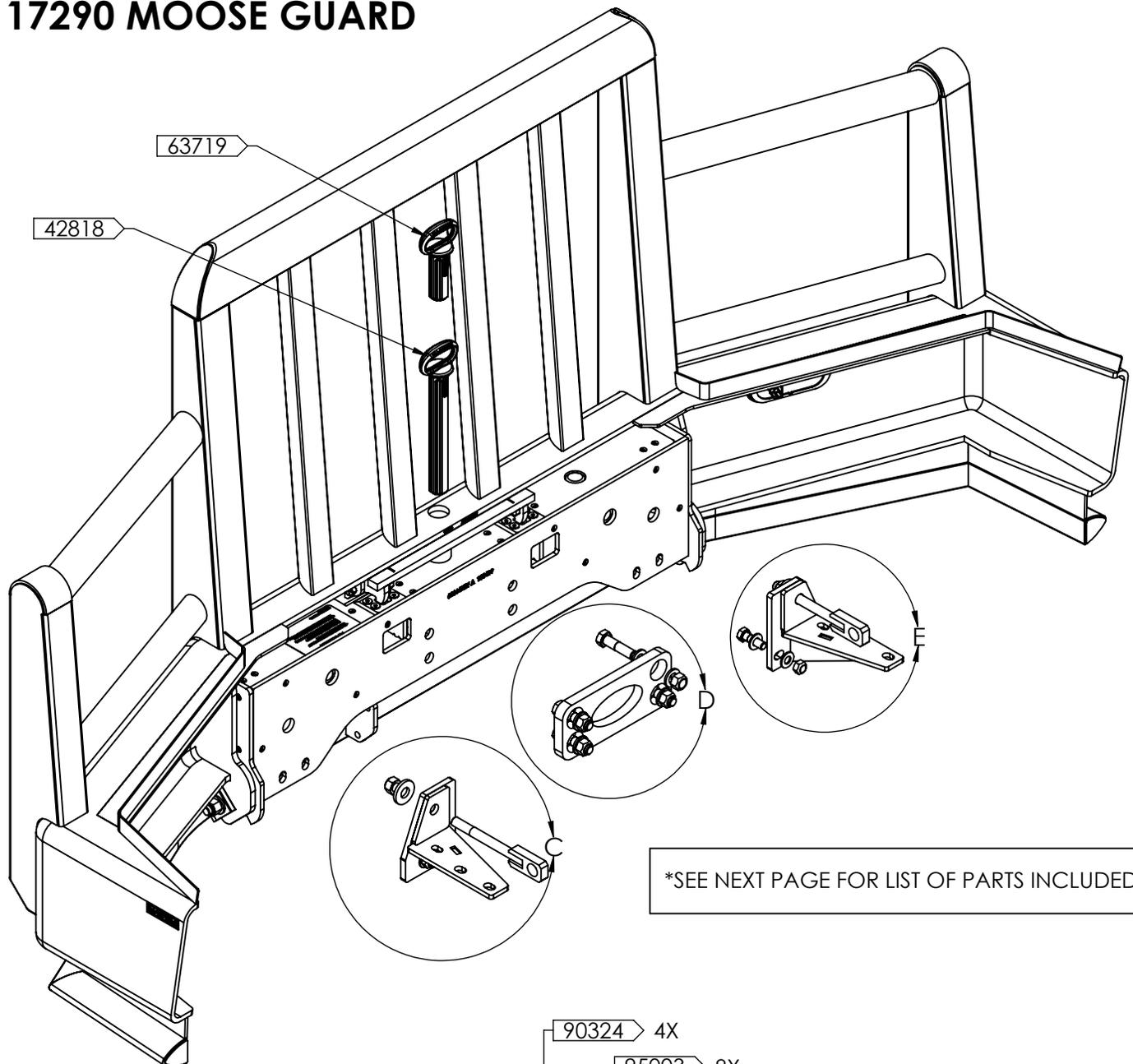
## **IMPORTANT INFORMATION**

- 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.

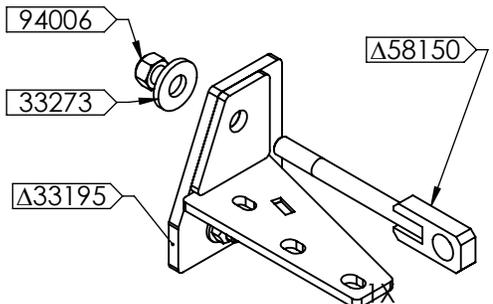
## **SAFETY INFORMATION**

- 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.

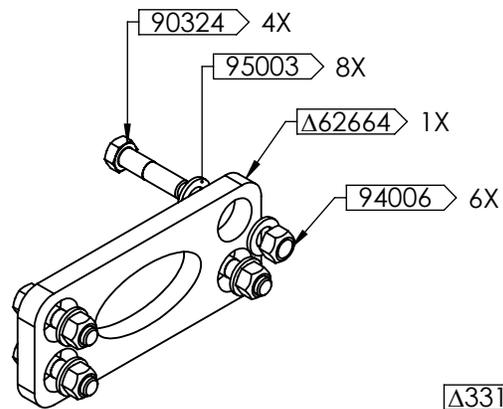
**17290 MOOSE GUARD**



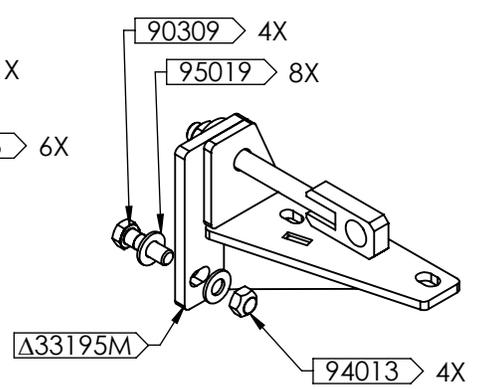
\*SEE NEXT PAGE FOR LIST OF PARTS INCLUDED\*



**DETAIL C**  
SCALE 1 : 7



**DETAIL D**  
SCALE 1 : 7



**DETAIL E**  
SCALE 1 : 7



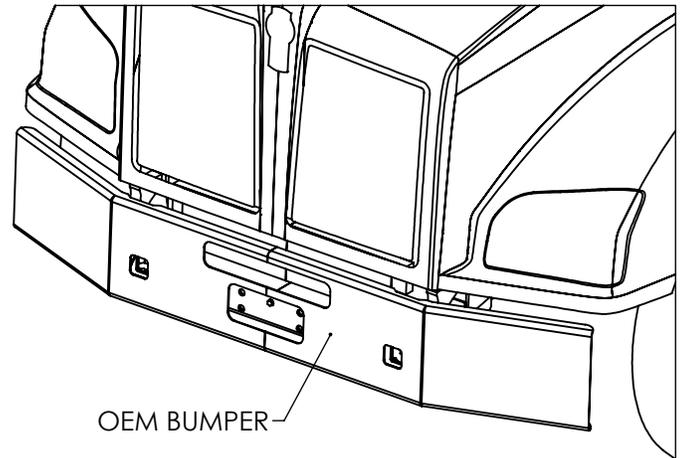
## ASSEMBLY KIT PARTS

| ITEM#  | DESCRIPTION                                       | MAT'L                  | DIMENSIONS                   | WT. EA | STOCK # | QTY. |
|--------|---|------------------------|------------------------------|--------|---------|------|
| 33195  | LOWER BRACKET WELDMENT                            |                        | ASSEMBLY                     | 9.6    | 111039  | 1    |
| 33195M | LOWER BRACKET WELDMENT -MIRROR                    |                        | ASSEMBLY                     | 9.6    | 111040  | 1    |
| 33273  | TOW MOUNT WASHER                                  | 44W                    | 1/4" PL X 2" DIA.            | .18    | 111041  | 2    |
| 42818  | CAST TOWPIN                                       | 130-90-09<br>CAST IRON | Ø1 1/2 X 13 5/8              | 5.4    | 125613  | 1    |
| 51975  | BENDIX RADAR (FLR-20) MOUNTING<br>BRACKET (VER 3) | 5052-H32               | 1/8" X 10 29/32" X 4<br>1/4" | .47    | 127701  | 1    |
| 58150  | TOW MOUNT ASSEMBLY                                |                        | ASSEMBLY                     | 1.7    | 129934  | 2    |
| 63719  | SHORT CAST LATCH PIN (4-1/2 IN)                   | 65-45-12<br>CAST IRON  | Ø1 1/2 X 6 3/4               | 2.8    | 131663  | 1    |
| 82866  | GROMMET - OVAL, OPEN BACK - GROTE<br>92420        | PVC                    | 6" OVAL                      | .21    | 101186  | 2    |
| 85328  | LAMP, LED, OVAL, CLEAR AMBER,<br>GROTE, G6013     | PLASTIC                | 6"                           | .38    | 128508  | 2    |
| 90309  | HEX CAPSCREW - PLATED                             | GR. 8                  | 5/8" NC X 2"                 | .25    | 101976  | 4    |
| 90317  | HEX CAPSCREW - PLATED                             | GR. 5                  | 1/4" NC X 1"                 | .022   | 101551  | 4    |
| 90324  | HEX HEAD BOLT - PLATED                            | GR. 8                  | 3/4" NC X 3"                 | .51    | 101875  | 4    |
| 94006  | STOVER NUT - PLATED                               | GR. C                  | 3/4" NC                      | .12    | 101477  | 6    |
| 94013  | STOVER NUT - PLATED                               | GR. C                  | 5/8" NC                      | .063   | 101481  | 4    |
| 94245  | STOVER NUT - PLATED                               | GR. C                  | 1/4" NC                      | .0082  | 101476  | 4    |
| 95003  | FLAT WASHER - PLATED                              | GR. 8                  | 3/4" DIA SAE                 | .055   | 102169  | 8    |
| 95019  | FLAT WASHER - PLATED                              | GR. 8                  | 5/8" DIA SAE                 | .035   | 102172  | 8    |

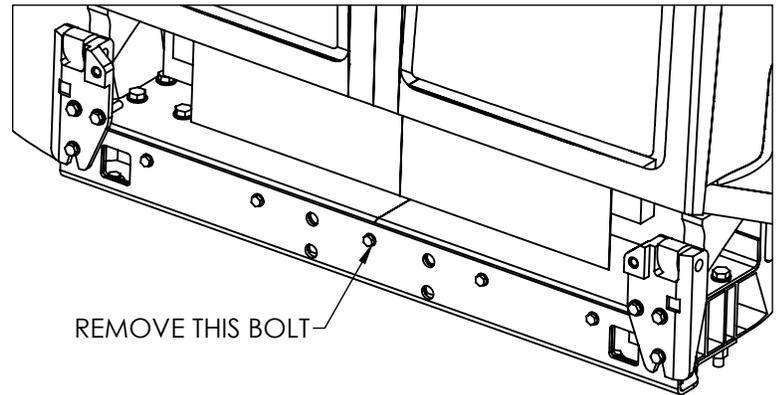


# INSTALLATION PROCEDURE

1. UNINSTALL THE OEM BUMPER FROM THE TRUCK.

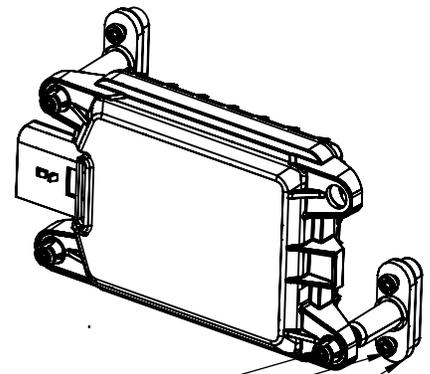


2. REMOVE THE BOLT LOCATED ON THE CENTER OF THE FRAME.



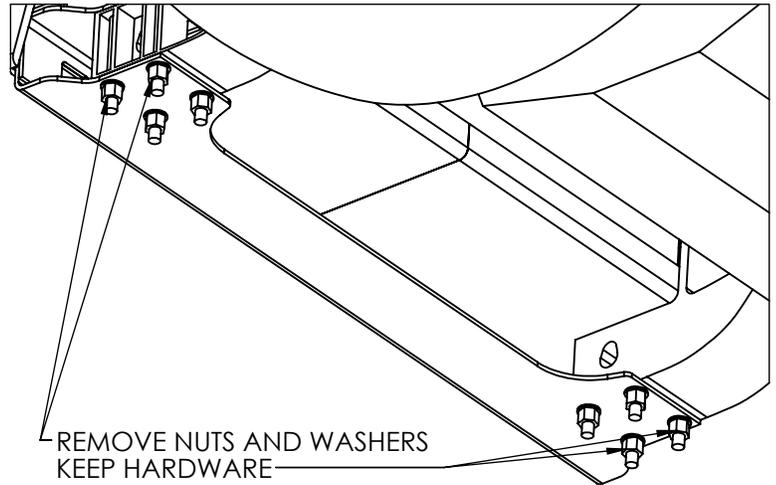
3. IF RADAR IS EQUIPPED ON THE TRUCK, IT MUST BE REMOVED FIRST BEFORE INSTALLING THE MOOSE GUARD. KEEP THE ORIGINAL MOUNTING HARDWARE SEEN IN THE FIGURE TO THE RIGHT:

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

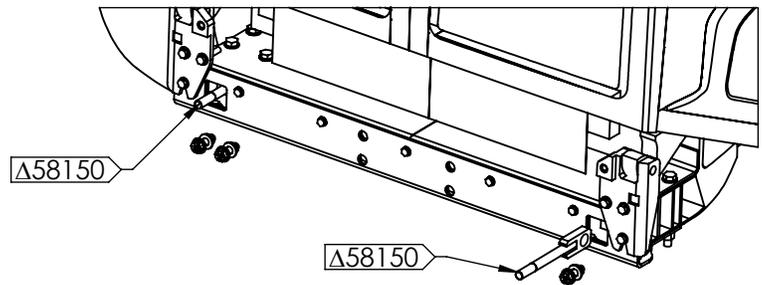


## INSTALLATION PROCEDURE

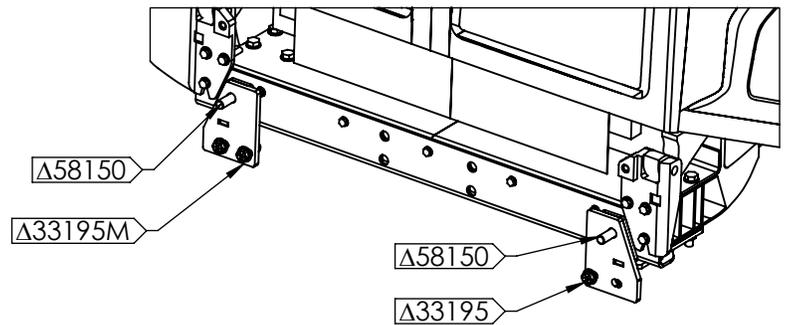
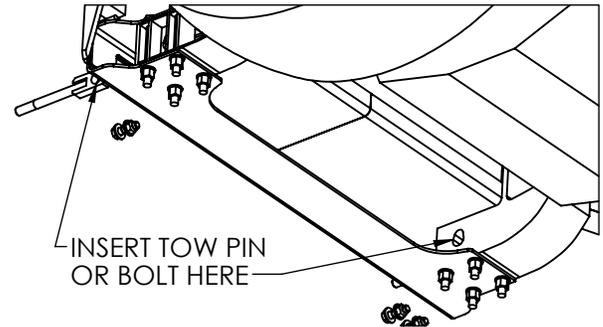
4. ON THE BOTTOM SIDE OF THE FRAME REMOVE THE FOUR OUTER M16 NUTS AND WASHERS. KEEP THIS HARDWARE AS IT WILL BE REUSED LATER IN THE INSTALLATION.



5. INSTALL  $\Delta 58150$  IN BOTH SIDES, THE DRIVER SIDE AND PASSENGER SIDE TOW RECIEVER. SECURE THEM USING THE FACTORY TOW PIN OR A 3/4" GR.8 BOLT WITH WASHERS AND A LOCK NUT (NOT SUPPLIED).

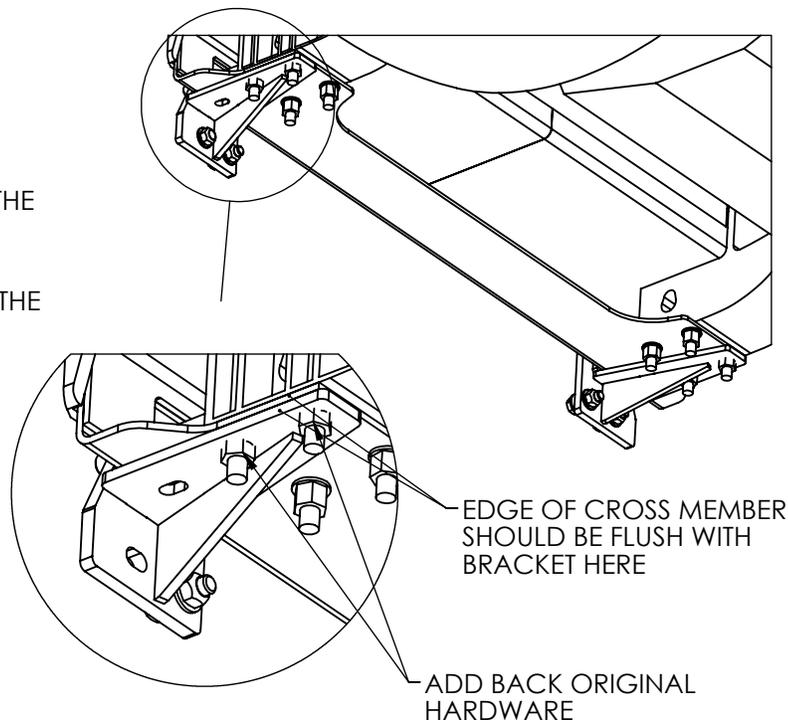


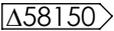
6. INSTALL  $\Delta 33195$  ON THE DRIVER SIDE AND  $\Delta 33195M$  ON THE PASSENGER SIDE.  $\Delta 58150$  SHOULD SLIDE THROUGH THE TOP HOLE IN BOTH BRACKETS.



# INSTALLATION PROCEDURE

7. SECURE THE MOUNT BRACKETS USING THE ORIGINAL HARDWARE. TORQUE HARDWARE TO THE FACTORY TORQUE SPECIFICATIONS. THE OUTER EDGE OF EACH BRACKET SHOULD BE FLUSH WITH THE EDGE OF THE FRAME.



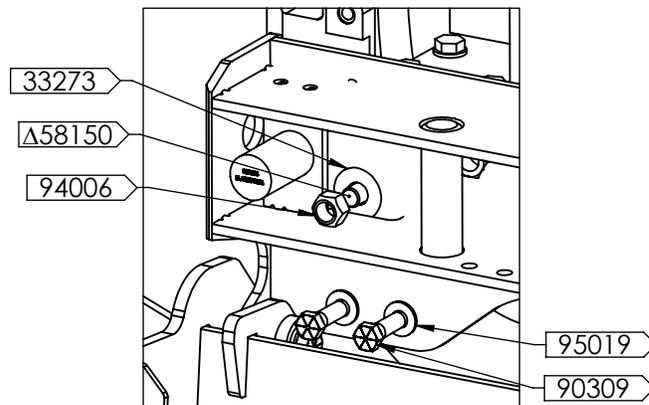
8. INSERT BOTH  THROUGH THE HOLES ON THE BACK OF THE STEEL ASSEMBLY. SECURE IT USING THE FOLLOWING

HARDWARE:

2 X  WASHER PLATE

2 X  NUT

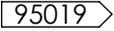
TORQUE TO 200 FT-LBS (LUBRICATED) / 260 FT-LBS (DRY).

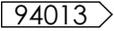


9. ATTACH THE GUARD TO THE MOUNT BRACKETS USING THE FOLLOWING

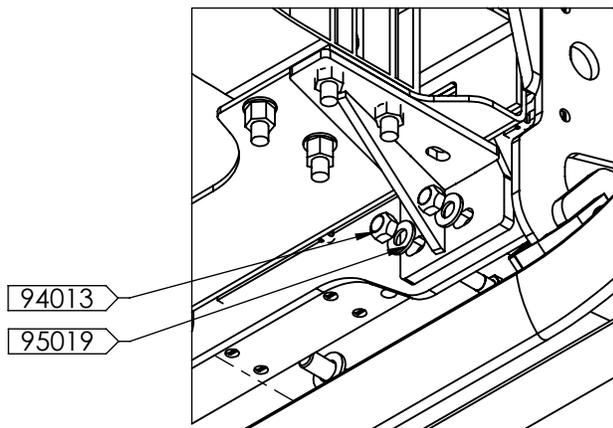
HARDWARE:

4 X  BOLTS

8 X  WASHERS

4 X  NUTS

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



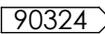


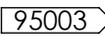
# INSTALLATION PROCEDURE

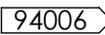
**NOTE:**

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

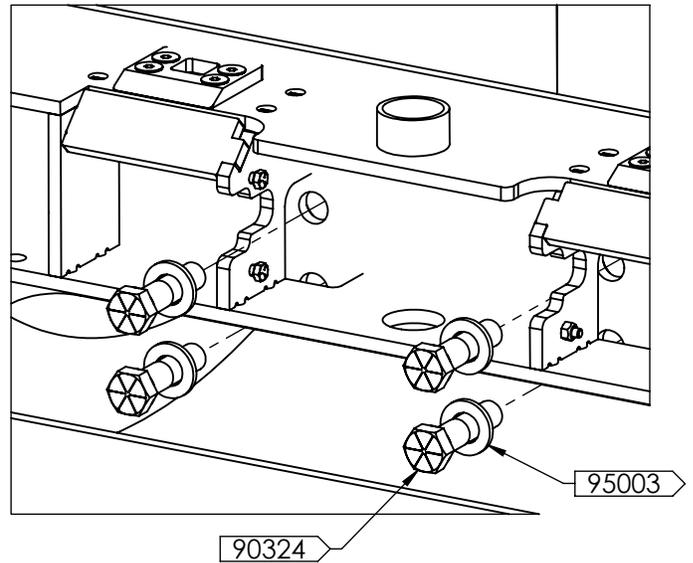
10. ADD THE FOLLOWING HARDWARE AT THE CENTER OF THE GUARD:

4 X  BOLTS

8 X  WASHERS

4 X  NUTS

TORQUE TO 280 FT-LBS (LUBRICATED) / 380 FT-LBS (DRY).

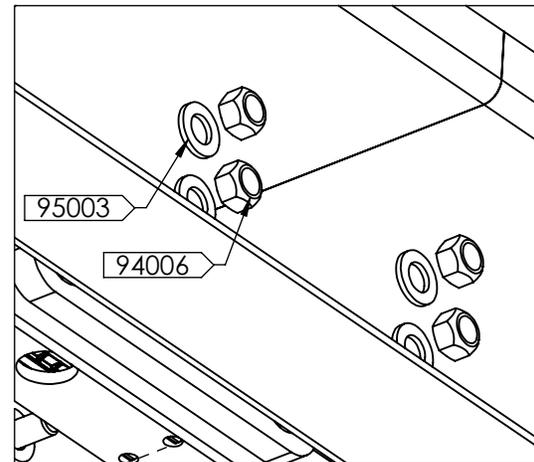


11. INSTALL RADAR ONTO  REUSING THE ORIGINAL HARDWARE:

3 X ADJUSTABLE SCREWS

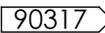
3 X ADJUSTABLE STANDOFFS

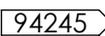
6 X TORX SCREWS



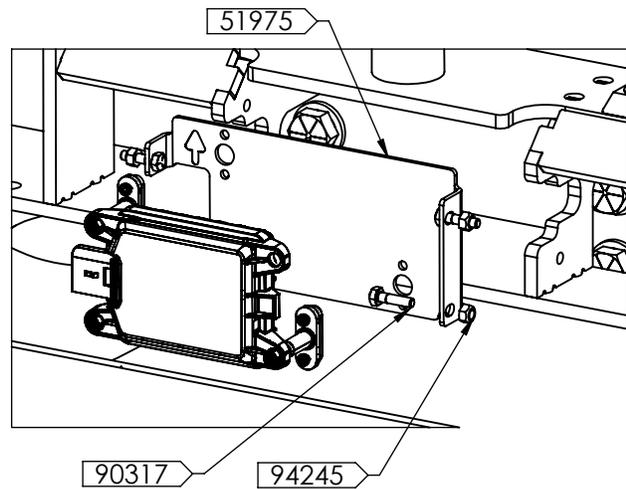
12. RECONNECT THE RADAR TO THE TRUCK (USE BRACKET SLOT TO FISH RADAR CABLE).

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).





# INSTALLATION PROCEDURE

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 INSTALLATION.

THANK YOU FOR CHOOSING MAGNUM.

