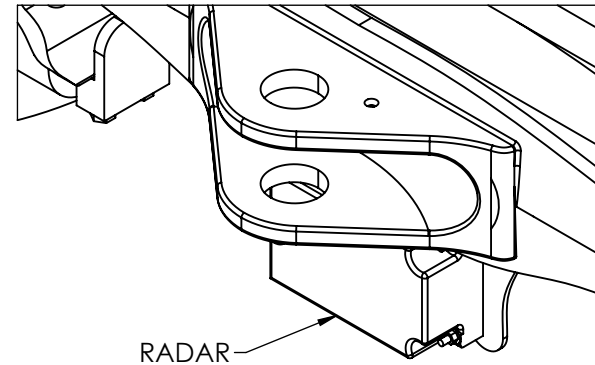
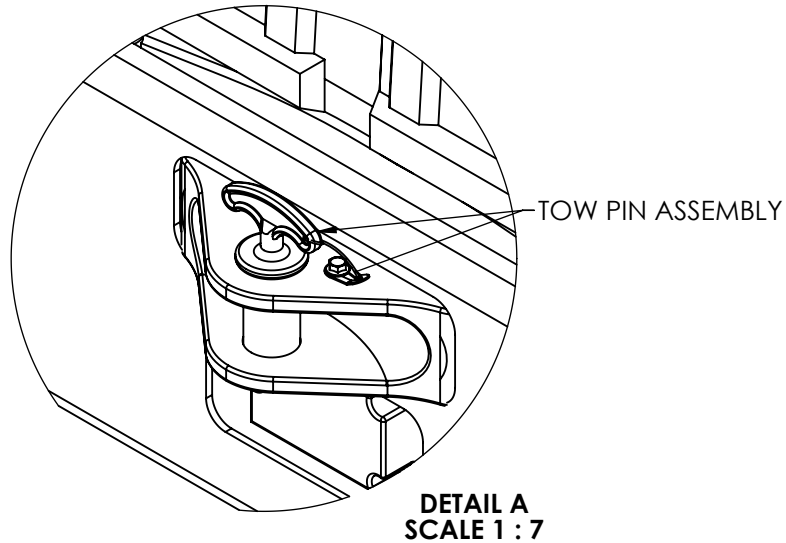
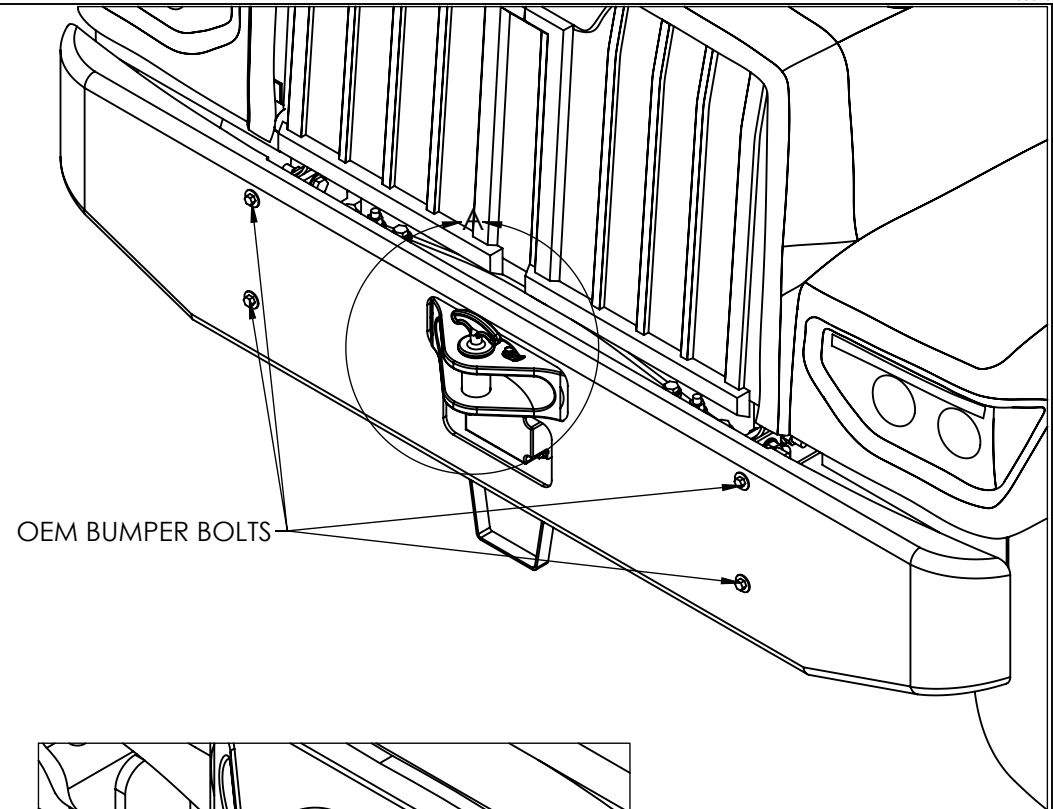


**INSTRUCTIONS**

1. UNINSTALL THE TOW PIN ASSEMBLY BY REMOVING THE BOLT THAT ATTACHES IT TO THE FRAME
2. UNINSTALL THE OEM BUMPER BY REMOVING THE THE FOUR BOLTS LOCATED ON THE FRONT OF THE BUMPER.
3. REMOVE THE RADAR COVER AND RADAR FROM TRUCK.



**MAGNUM TRAILER  
&  
EQUIPMENT INC.**

**MAGNUM**

**FRACTIONS CHART**

1/32	.03125	9/32	.28125	17/32	.53125	25/32	.78125
1/16	.0625	5/16	.3125	9/16	.5625	13/16	.8125
3/32	.09375	11/32	.34375	19/32	.59375	27/32	.84375
1/8	.125	3/8	.375	5/8	.625	7/8	.875
5/32	.15625	13/32	.40625	21/32	.65625	29/32	.90625
3/16	.1875	7/16	.4375	11/16	.6875	15/16	.9375
7/32	.21875	15/32	.46875	23/32	.71875	31/32	.96875
1/4	.25	1/2	.5	3/4	.75		

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:

FRACTIONS	ANGLES
+/- 1/16"	+/- 1°
.XX"	.XXX"
+/- 0.03"	+/- 0.005"

**DIMENSIONS TO SHARP POINTS**

SHEET NAME  
**INSTALL 1**

CURRENT CUSTOMER

**WO#**

SCALE

1:14

TITLE

**17276 MOO BUMPER ON 2021 WESTERN STAR 49X SD TOW PIN TRUCK**

STOCK NUMBER

VENDOR NUMBER

WEIGHT - LB.

355

DRAWN BY

MD

DRAWN DATE

6/25/2021

CHECKED BY

LS

CHECKED DATE

8/18/2021

REV.

MODELLER

MD

DRAWING NUMBER

**AA-58675**

NUMBER OF SHEETS

3

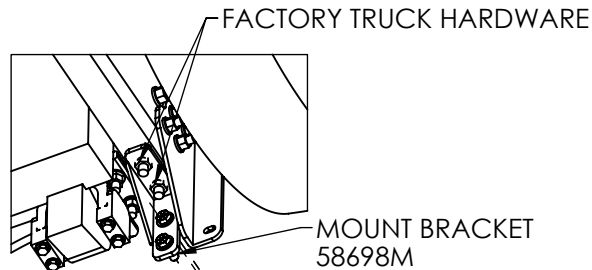
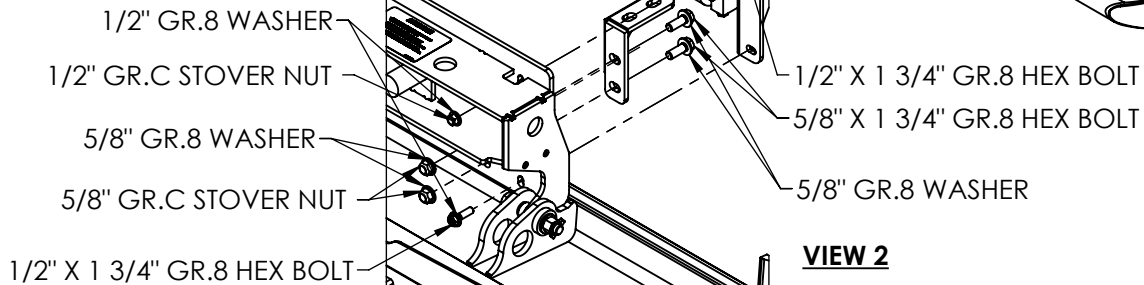
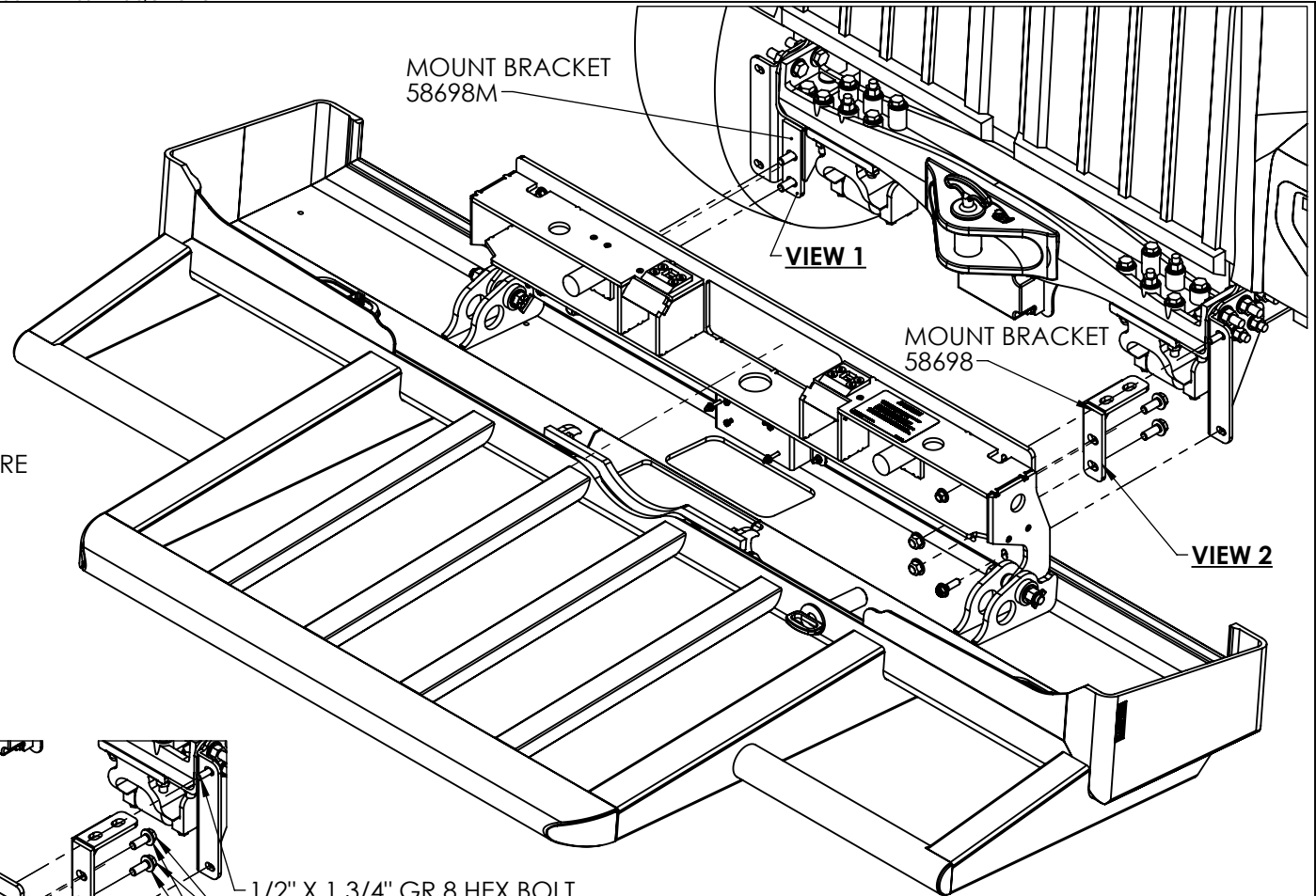
**INSTRUCTIONS**

1. INSTALL MOUNT BRACKET 58698/58698M USING THE FACTORY HARDWARE ON TRUCK.

2. ATTACH BUMPER TO TRUCK USING THE FOLLOWING HARDWARE (SEE VIEW 2):

1/2" X 1 3/4" GR.8 HEX BOLTS (4)  
 1/2" GR.8 FLAT WASHERS (8)  
 1/2" GR.C STOVER NUT (4)  
 5/8" X 1 3/4" GR.8 HEX BOLTS (4)  
 5/8" GR.8 FLAT WASHERS (8)  
 5/8" GR.C STOVER NUTS (8)

DRY TORQUE SPECIFICATIONS:  
 1/2" HARDWARE: 80 LB-FT 5/8" HARDWARE:  
 159 LB - FT

**VIEW 1****VIEW 2**

**MAGNUM TRAILER  
&  
EQUIPMENT INC.**

**MAGNUM**

**FRACTIONS CHART**

1/32	.03125	9/32	.28125	17/32	.53125	25/32	.78125
1/16	.0625	5/16	.3125	9/16	.5625	13/16	.8125
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FRACTIONS	ANGLES
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+/- 0.03"	+/- 0.005"

**DIMENSIONS TO SHARP POINTS**

SHEET NAME  
**INSTALL 2**

CURRENT CUSTOMER

**WO#**

SCALE

1:14

TITLE

**17276 MOO BUMPER ON 2021 WESTERN STAR 49X SD TOW PIN TRUCK**

STOCK NUMBER

VENDOR NUMBER

WEIGHT - LB.

355

DRAWN BY

DRAWN DATE

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MD

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LS

8/18/2021

MD

DRAWING NUMBER

**AA-58675**

NUMBER OF SHEETS

3

**RADAR INSTALLATION**

1. ATTACH RADAR TO PLATE USING INCLUDED HARDWARE:

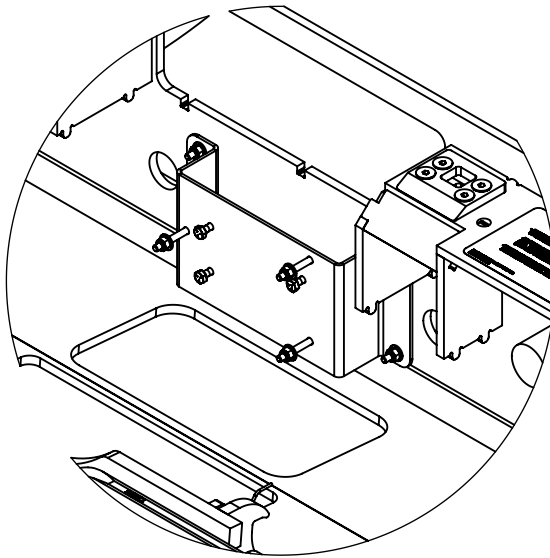
1/4" X 1 GR.5 HEX BOLT (3)  
1/4" NYLOC NUT (3)

2. ATTACH RADAR COVER USING INCLUDED HARDWARE:

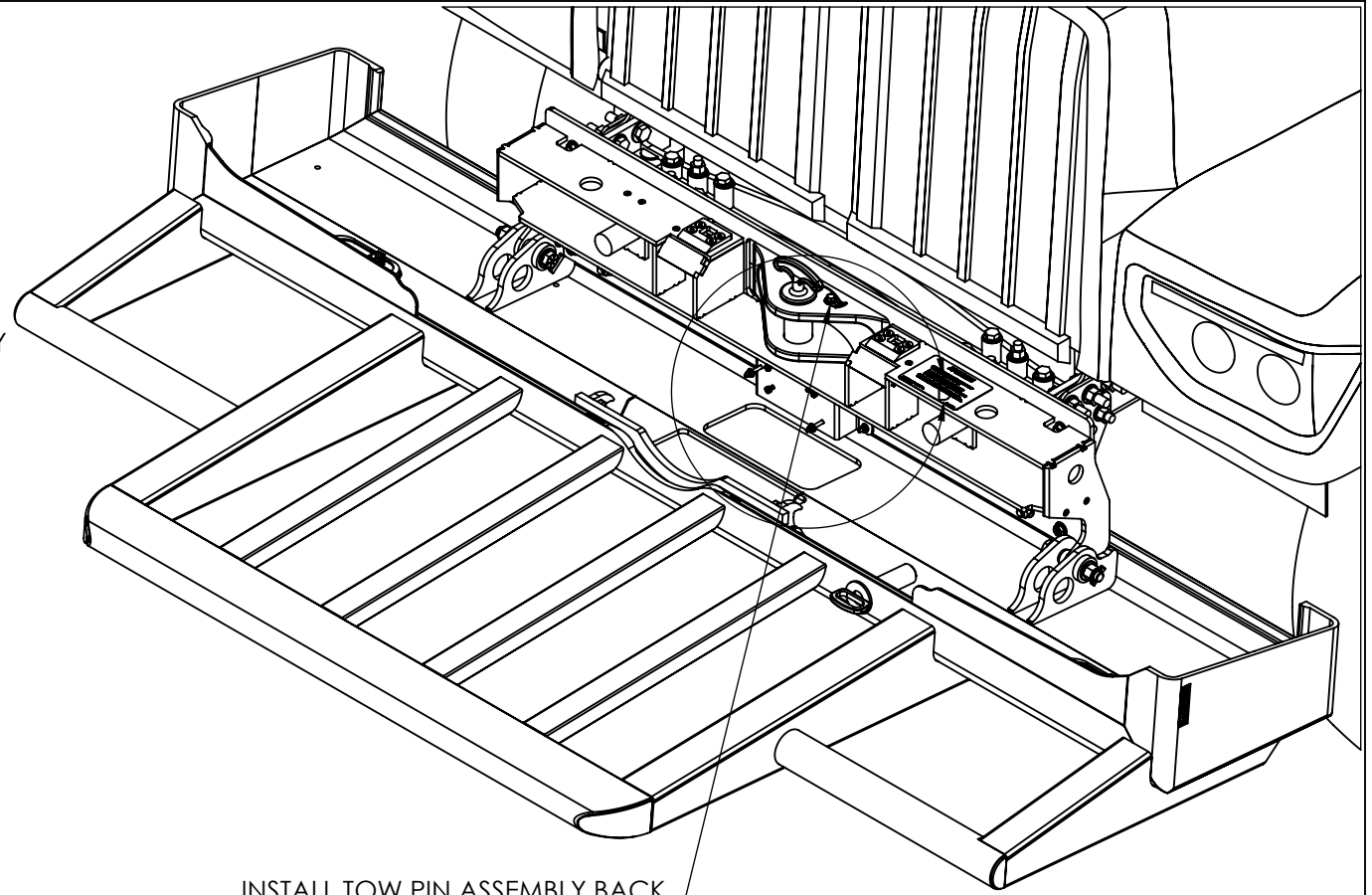
1/4" X 1 3/4 GR.5 HEX BOLT (3)  
1/4" NYLOC NUT (3) & 1/4" GR.2 WASHER (3)

3. INSTALL RADAR BRACKET TO STEEL ASSEMBLY USING SUPPLIED HARDWARE AFTER RADAR IS INSTALLED:

1/4" X 1 1/4 GR.5 HEX BOLT (4)  
1/4" NYLOC NUT (4) & 1/4" GR.2 WASHER (4)



**DETAIL B**  
**SCALE 1 : 7**



INSTALL TOW PIN ASSEMBLY BACK  
TO ITS ORIGINAL POSITION

**NOTE:**

IF EQUIPED, RADAR MUST BE REMOVED BEFORE BUMPER INSTALLATION.

RADAR MUST BE ALIGNED AND RECALIBRATED AFTER BUMPER INSTALLATION.  
ALIGNMENT AND CALIBRATION CAN ONLY BE DONE BY AUTHORIZED PERSONNEL.

**MAGNUM TRAILER  
&  
EQUIPMENT INC.**

**MAGNUM**

**FRACTIONS CHART**

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**DIMENSIONS TO SHARP POINTS**

SHEET NAME

**RADAR**

CURRENT CUSTOMER

**WO#**

SCALE

1:14

TITLE

**17276 MOO BUMPER ON 2021 WESTERN STAR 49X SD TOW PIN TRUCK**

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