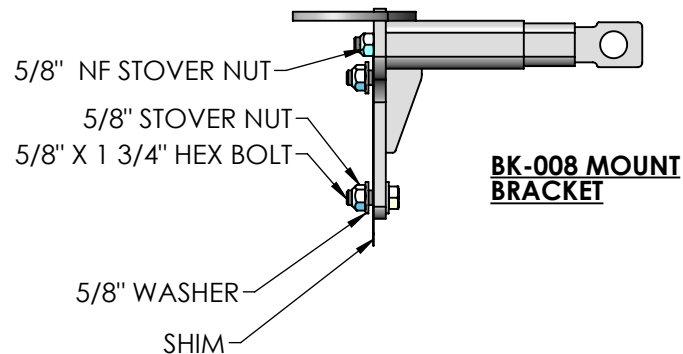
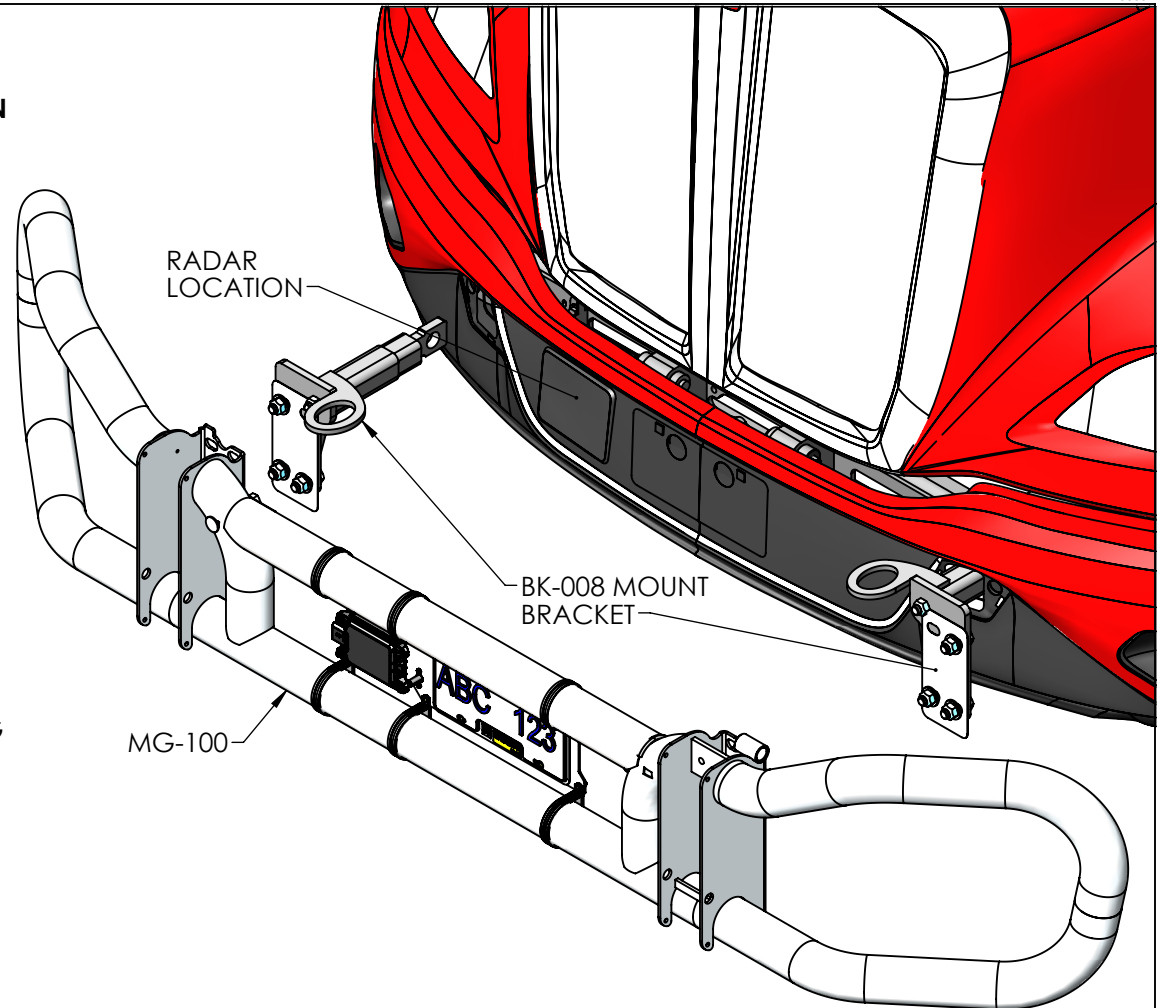


**INSTALLING MG-100/200/300**

- 1) SEE THE RADAR INSTALLATION SHEET IF RADAR IS EQUIPPED ON THE TRUCK.
- 2) OPEN HOOD AND REMOVE FACTORY TOW PINS FROM TRUCK
- 3) INSERT MOUNT BRACKETS INTO THE TOW SOCKETS (TOW PLATES SHOULD BE ON THE INSIDE OF THE BUMPER)
- 4) SLIDE FACTORY TOW PINS OR EQUIVALENT BOLT THROUGH THE TRUCK FRAME AND MOUNT BRACKETS.
- 5) TIGHTEN THE 5/8" NF STOVER NUT TO 128 FT-LBS TO SECURE THE BRACKETS IN PLACE
- 6) ATTACH THE MG-100 TO THE MOUNT BRACKETS USING THE TOP TWO ROWS OF SLOTS. SHIMS SHOULD BE PLACED BETWEEN THE GUARD AND THE MOUNT BRACKETS.  
HARDWARE: 5/8" NC X 1 3/4" BOLT, 5/8" WASHER & 5/8" STOVER NUT  
TIGHTEN TO 159 FT-LBS  
(6 PLACES)
- 7) THE GUARD IS NOW INSTALLED. THE HOOD CAN NOW BE CLOSED. REFER TO DRAWING #54268 FOR INSTALLING THE MG-200T/300T IF REQUIRED.



**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  
**BUMPER INSTALL**

CURRENT CUSTOMER

**WO#**

SCALE

1:12

TITLE  
**MG SERIES BUMPER ON 2021 KENWORTH T-680**

STOCK NUMBER

VENDOR NUMBER

WEIGHT - LB.

216.

DRAWN BY

DRAWN DATE

CHECKED BY

CHECKED DATE

REV.

MD

6/7/2021

LS

6/21/2021

A

MODELLER

DRAWING NUMBER

**AA-58591**

NUMBER OF SHEETS

2

**USE ONLY FASTENERS AND GRADES SPECIFIED****NOTE:**

IF EQUIPPED, RADAR MUST BE REMOVED BEFORE BUMPER INSTALLATION. THE OEM BUMPER NEEDS TO BE REMOVED IN ORDER TO REMOVE THE RADAR.

RADAR MUST BE RECALIBRATED AFTER BUMPER INSTALLATION, CALIBRATION CAN ONLY BE DONE BY AUTHORIZED PERSONNEL.

RADAR  
LOCATION

**STEP (2):**

INSTALL RADAR INTO RADAR BRACKET SUPPLIED REUSING ORIGINAL ADJUSTABLE STAND-OFF AND FASTENERS

**STEP (3):**

RECONNECT RADAR TO THE TRUCK

**STEP (1):**

INSTALL RADAR BRACKET USING LOOP CLAMPS AND SUPPLIED HARDWARE  
TYP (6)  
#10-32 PLATED MACHINE HEAD SCREW X 3/4" AND  
#10-32 NYLOC HEX HEAD NUT

**STEP (4):**

INSTALL LICENSE PLATE USING HARDWARE SUPPLIED  
#10-32 PLATED MACHINE HEAD SCREW X 3/4" (6),  
GR. 2 #10 WASHER (8) AND  
#10-32 NYLOC HEX HEAD NUT (6)

**DETAIL B**  
**SCALE 1 : 6**

**DETAIL C**  
**SCALE 1 : 3**

**MAGNUM TRAILER  
&  
EQUIPMENT INC.**

**MAGNUM**

**FRACTIONS CHART**

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FRACTIONS	ANGLES
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+/- 0.03"	+/- 0.005"

**DIMENSIONS TO SHARP POINTS**

SHEET NAME

**RADAR INSTALL**

CURRENT CUSTOMER

**WO#**

SCALE

1:12

TITLE

**MG SERIES BUMPER ON 2021 KENWORTH T-680**

STOCK NUMBER

VENDOR NUMBER

WEIGHT - LB.

91.8

DRAWN BY

DRAWN DATE

CHECKED BY

CHECKED DATE

REV.

MD

6/7/2021

LS

6/21/2021

A

MODELLER

DRAWING NUMBER

**AA-58591**

NUMBER OF SHEETS

2