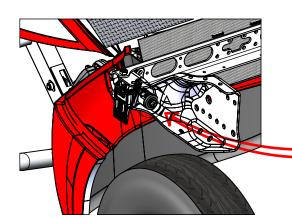
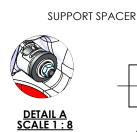
## **INSTALL STEPS**

- 1) REMOVE NUTS, WASHERS AND SUPPORT SPACERS FROM STUDS - 2 PLACES.
- 2) OPEN THE HOOD AND REMOVE THE SRPINGS AND SHOULDER WASHERS IN THE BACK OF THE TOW SOCKETS. CLOSE THE HOOD.
- 3) WITH BUMPER IN THE CLOSED POSITION SLIDE THE BRACKETS INTO THE TOW SOCKETS.
- 4) CAREFULLY OPEN BUMPER, ENSURING IT DOES NOT SLIP OUT OF THE TOW SOCKETS.
- 5) OPEN TRUCK HOOD AND INSTALL NUTS, WASHERS AND SUPPORT SPACERS AS SHOWN IN DETAIL A AND CROP VIEW.
- 6) FULLY TIGTHEN NUTS ONTO STUD. TORQUE = 210 FT-LB. DO NOT EXCEED THIS VALUE OR STRIPPING WILL OCCUR. ENSURE THAT STUD IS FREE OF LUBRICATION BEFORE TIGHTENING TO THIS VALUE.

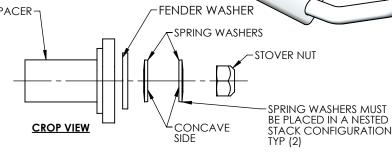
IF LOCTITE IS USED DECREASE TORQUE VALUE ACCORDING TO THE MANUFACTURERS RECOMMENDATION.

- 7) CLOSE HOOD AND BUMPER.
- 8) CHECK THE BUMPER FOR FREE MOVEMENT AND IF IDENTIFIED ADD ONE OR MORE WHITE SHIMS AS PER MAGNUM INSTRUCTIONS. CONGRATULATIONS. THE INSTALL IS NOW COMPLETE.





WHITE SHIM-



**NOTE:** TOW SHACKLE & CLEVIS

VISIBLE ON SECOND SHEET WHEN

NOT VISIBLE IN THIS VIEW,

THE BUMPER IS CLOSED

**NUTS, SPRING WASHERS** 

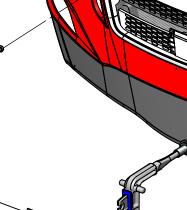
AND SUPPORT SPACERS

SEE DETAIL "A" AND CROP

ARE INSTALLED AFTER BUMPER IS "PLUGGED"

INTO TOW SOCKETS

VIEW-



**MAGNUM TRAILER** EQUIPMENT INC.



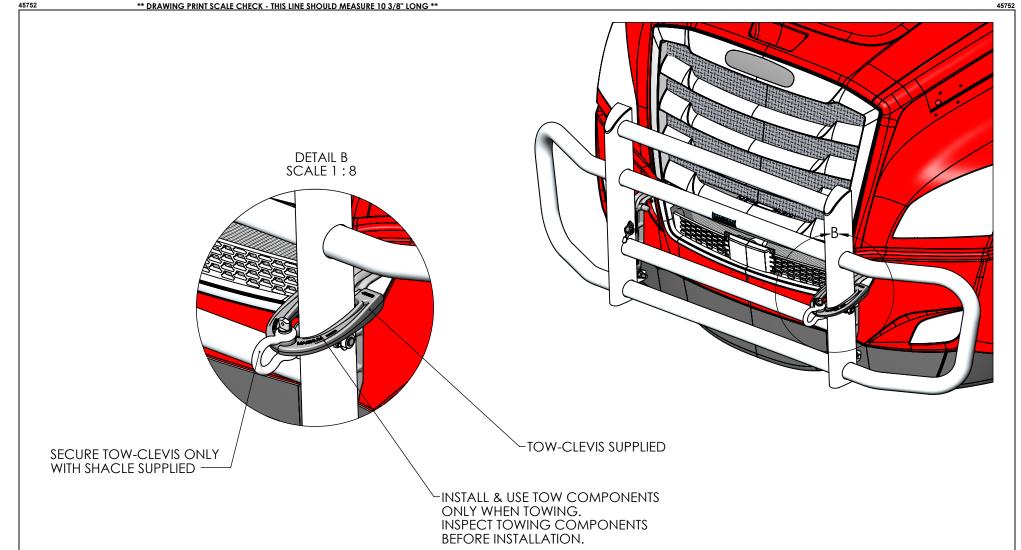
1/32 .03125 1/16 .0625 3/32 .09375 1/8 .125 5/32 .15625 3/16 .1875 7/32 .21875 1/4 .25	9/32 .28125 5/16 .3125 11/32 .34375 3/8 .375 13/32 .40625 7/16 .4375 15/32 .46875 1/2 .5	17/32 .53125 <b>9/16</b> .5625 19/32 .59375 <b>5/8</b> .625 21/32 .65625 <b>11/16</b> .6875 23/32 .71875 <b>3/4</b> .75	25/32 .78125 13/16 .8125 27/32 .84375 7/8 .875 29/32 .9055 15/16 .9375 31/32 .96875	

FRACTIONS CHART

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES** TOLERANCES ARE:

		NGLES - 1deg	WO#	DRAWN BY	
I	DIMENSIONS TO SHA		1:4	MODELLER HM	DRAWING

	SHEET NAME	TITLE			
	Sheet1	17241 BUMPER ON	2017 FREIGHTLINER CASCADIA		
	CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	WEIGHT - LB.	
		DRAWN BY	DRAWN DATE		REV.
	WO#	HM	4/27/2017		Е
	SCALE	MODELLER		NUMBER OF	SHEETS
5	1:4	HM	AA-45752	1	



MAGNUM TRAILER
&
EQUIPMENT INC.



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

DIMENSIONS ARE IN INCHES TOLERANCES ARE:					
FRACTIONS	ANGLES				
+/- 1/16"	+/- 1°				
.XX"	.XXX"				
+/- 0.03"	+/- 0.005"				
DIMENSIONS TO SHARP POINTS					

UNLESS OTHERWISE SPECIFIED

Sheet2	17241 BUMPER ON 2017 FREIGHTLINER CASCADIA				
CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	WEIGHT - LB.		
	DRAWN BY	DRAWN DATE	REV.		
WO#	HM	4/27/2017	E		
SCALE	MODELLER		NUMBER OF SHEETS		
1:4	HM	AA-45752	1		