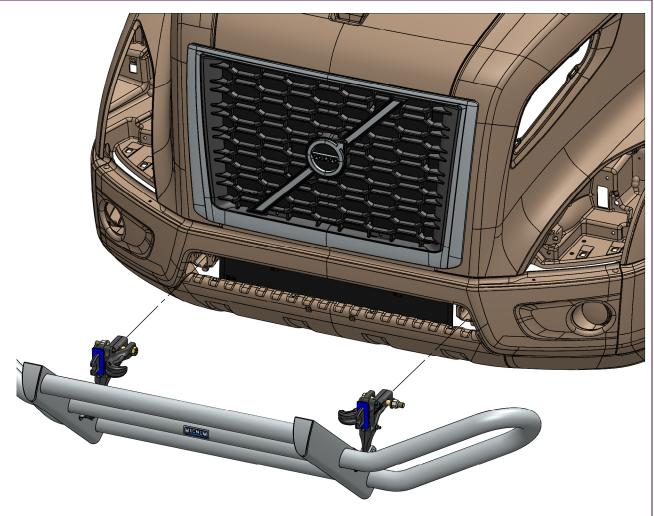


- 1) INSERT MOUNT BRACKETS FULLY INTO TOW SOCKETS
- 2) INSERT CROSS PIN THROUGH HOLE IN BRACKET AND TOW SOCKET
- 3) TIGHTEN LOCKING NUTS FIRMLY
- 4) CLOSE AND LOCK BUMPER AND CHECK FOR PLAY ADD SHIMS (SUPPLIED) BEHIND URETHANE PAD TO SUIT



MAGNUM TRAILER
&
EQUIPMENT INC.

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	FRACTIO	NS 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

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
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FRACTIONS ANGLES +/- 1/16" +/- 1deg

DIMENSIONS TO SHARP POINTS	SCALE

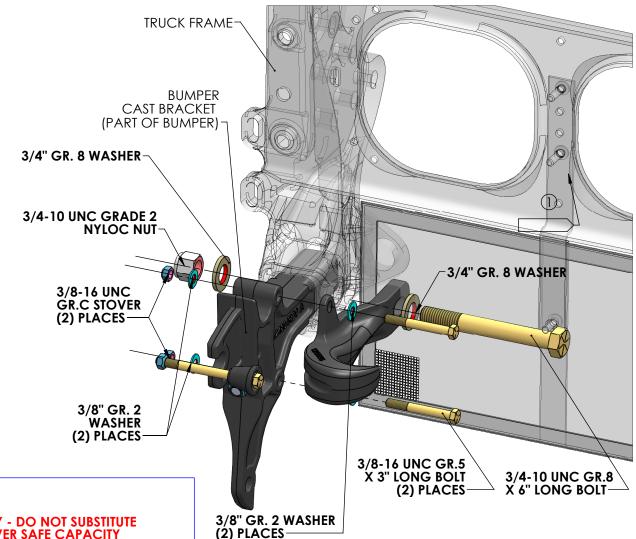
SHEET NAME	TITLE			
BUMPER INSTALL	17249 BUMPER ON VOLVO VNR 2018 AND UP			
CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	WEIGHT - LB. 99.9	
	DRAWN BY	DRAWN DATE	REV.	
WO#	LS	2017-12-15	В	
SCALE	MODELLER		NUMBER OF SHEETS	
1:4	LS	AA-48519	1	

*TRUCK HOOD IS HIDDEN IN THIS DRAWING

DO NOT SUBSTITUTE ANY FASTENERS

INSTALLATION STEPS

- 1. POSITION HOOK TO INSIDE OF BUMPER BRACKET
- 2. INSERT 3/8" X 3" BOLTS WITH WASHERS THROUGH HOOK AND BUMPER BRACKET AS SHOWN.
- 3. INSTALL 3/8" WASHERS AND STOVER NUTS. LEAVE THESE LOOSE AT THIS POINT.
- 4. INSTALL 3/4" BOLT WITH WASHER THROUGH HOOK AND BRACKET.
- 5. INSTALL 3/4" NYLOC NUT WITH WASHER LEAVE LOOSE AT THIS POINT
- 6. TIGHTEN 3/8" STOVER NUTS TORQUE = **20 LB./FT**
- 7. TIGHTEN 3/4" NYLOC NUT ONLY UNTIL THE BOLT HAS NO FREE END PLAY. **DO NOT TIGHTEN THIS NUT DOWN FULLY**



IMPORTANT SAFETY NOTES:

-THE (2) 3/8" DIAMETER BOLTS MUST BE GRADE 5 ONLY - DO NOT SUBSTITUTE BOLTS ARE DESIGNED TO BREAK TO INDICATE TOW OVER SAFE CAPACITY

-DO NOT FULLY TIGHTEN DOWN THE 3/4" NYLOC NUT. THERE MAY BE A GAP BETWEEN THE HOOK AND TRUCK FRAME - THIS IS NORMAL

**ALUMINUM PORTION OF BUMPER IS NOT SHOWN FOR CLARITY TOW HOOKS CAN BE INSTALLED WITHOUT REMOVING BUMPER

MAGNUM TRAILER & EQUIPMENT INC.

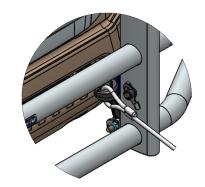
1/32 1/16 3/32 1/8 5/32 3/16 7/32 1/4	.03125 .0625 .09375 .125 .15625 .1875 .21875	9/32 .28125 5/16 .3125 11/32 .34375 3/8 .375 13/32 .40625 7/16 .4375 15/32 .46875 1/2 .5	17/32 .53125 9/16 .5625 19/32 .59375 5/8 .625 21/32 .65625 11/16 .6875 23/32 .71875 3/4 .75	25/32 .78125 13/16 .8125 27/32 .84375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

FRACTIONS CHART

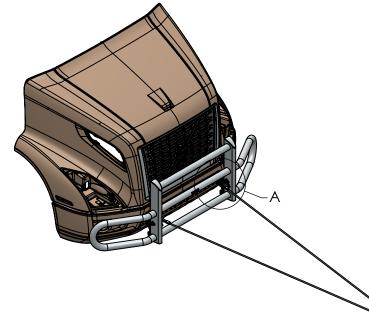
DIMENSIONS A TOLERAN	
FRACTIONS	ANGLES
+/- 1/16"	+/- 1°
.XX"	.XXX"
+/- 0.03"	+/- 0.005"
DIMENSIONS TO	SHARP POIN

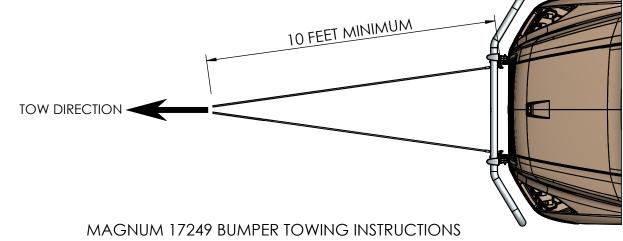
UNLESS OTHERWISE SPECIFIED

SHEET NAME	TITLE			
TOW HOOK INSTALL 17249 BUMPER ON VOLVO VNR 2018 AND UP				
CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	99.9	
	DRAWN BY	DRAWN DATE		REV.
WO#	LS	2017-12-15		В
SCALE	MODELLER		NUMBER OF S	SHEETS
1:4	LS	AA-48519	1	



DETAIL A SCALE 1:12





- TOW CAPACITY PER HOOK IS 5000 lb. MAXIMUM.
- TOW ONLY IN ACCORDANCE WITH THE ARRANGEMENT SHOWN IN THIS INSTRUCTION.
- TOW CAPABILITY IS NOT FOR VEHICLE RECOVERY FROM ACCIDENT OR OTHER VEHICLE OFF ROAD CONDITION - FOR VEHICLE RECOVERY REMOVE THE BUMPER AND USE THE VOLVO PROVIDED TOW YOKES.
- MINIMUM TOW CABLE LENGTH = 10 FT.
- TOW HOOKS MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MAGNUM INSTALLATION INSTRUCTIONS

DANGER!

ONLY USE RIGGING OF CORRECT RATED CAPACITY

CLEAR ALL PERSONS MINIMUM 15 METERS FROM VEHICLES WHEN TOWING

MAGNUM TRAILER & EQUIPMENT INC.

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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 A	
FRACTIONS	ANGLES
+/- 1/16"	+/- 1°
.XX"	.XXX"
+/- 0.03"	+/- 0.005"
DIMENSIONS TO	SHARP POI

UNLESS OTHERWISE SPECIFIED

SHEET NAME	TITLE			
TOWING	17249 BUMPER ON	VOLVO VNR 2018 AND UF	•	
CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	WEIGHT - LB.	
			99.9	
	DRAWN BY	DRAWN DATE		REV.
WO#	LS	2017-12-15		В
SCALE	MODELLER		NUMBER OF	SHEETS
1:40	LS	AA-48519	1	