

INSTALL TOWSTRAP ASSEMBLY (SUPPLIED) BEFORE INSTALLING BUMPER TO TRUCK

INSTALL BRACKETS TO TRUCK FIRST - DO NOT TIGHTEN UNTIL INSTALL IS COMPLETE. IF EXISTING BOLTS ARE TOO SHORT, REPLACE WITH LONGER OF **SAME GRADE**

5/8" NC GR. 8 NUT AND WASHER (SUPPLIED) TYP (2)

ADJUST STUD POSITION SO THAT STUD PROTRUDES THRU NUT 2 THREADS

5/8" NC X 1 3/4" GR. 8 BOLT WITH WASHERS AND GR. C STOVER (NOT SHOWN) THRU FRONT X/M INSTALLER DRILL (2) PLACES (NOT SUPPLIED)

1/2" NC X 1 1/4" GR. 8 CAPSCREW WITH GR. 8 WASHER INTO EXISTING TAPPED HOLE IN X/M TYP (4) (NOT SUPPLIED)

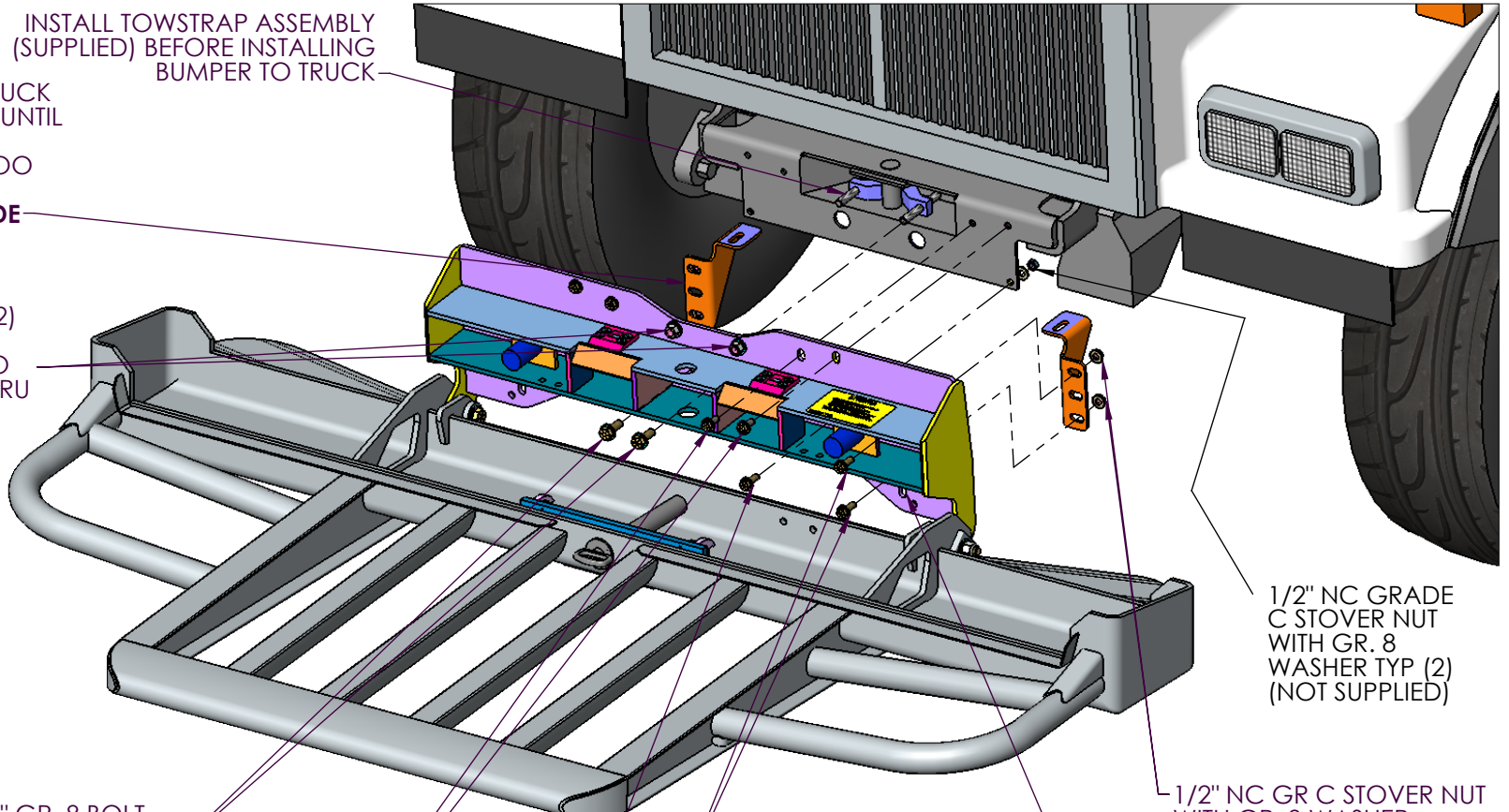
1/2" NC X 1 1/2" GR. 8 BOLT WITH GR. 8 WASHER TYP(4) (SUPPLIED)

1/2" NC X 1 1/2" GR. 8 CAPSCREW WITH GR 8 WASHER TYP (2) (NOT SUPPLIED)

1/2" NC GRADE C STOVER NUT WITH GR. 8 WASHER TYP. (2) (NOT SUPPLIED)

1/2" NC GR C STOVER NUT WITH GR. 8 WASHER TYP. (4) (SUPPLIED)

THIS SLOT NOT USED



**MAGNUM TRAILER & EQUIPMENT INC.**



**PROCESS CODES**

- |                           |                      |
|---------------------------|----------------------|
| A - MODIFY SURFACE FINISH | Q - PAINT OR COATING |
| B - BURN (FLAME)          | R - ROLLED           |
| C - CUT TO LENGTH         | S - SHEAR            |
| D - DRILL                 | T - TRIM             |
| F - FORM                  | V - LAYOUT           |
| H - HI DEF PLASMA         | W - WATER CUT        |
| K - CAST                  | X - EXTRUDE          |
| L - LASER                 | Y - MODIFY           |
| M - MACHINE               | Z - HEAT TREAT       |
| P - PUNCH                 |                      |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS +/- 1/16" ANGLES +/- 1deg

DIMENSIONS TO SHARP POINTS

**SHEET NAME**

Sheet1

CURRENT CUSTOMER

**WO#**

SCALE

1:14

**TITLE**

**17011 BUMPER ON 2005 WESTERN STAR 4900 FA**

STOCK NUMBER

VENDOR NUMBER

WEIGHT - LB.

DRAWN BY

GW

DRAWN DATE

12/16/2005

REV.

**A**

MODELLER

GW

DRAWING NUMBER

**AA-13369**

NUMBER OF SHEETS