

INSTALL TOWSTRAP ASSEMBLY (SUPPLIED) BEFORE
INSTALLING BUMPER TO TRUCK

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

ADJUST STUD POSITION SO THAT
STUD PROTRUDES THRU NUT 2 THREADS

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

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

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

THIS SLOT NOT USED
HIWAY INSTALL

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

1/2" NC X 1 1/4" GR. 8 CAPSCREW
WITH GR 8 WASHER
TYP (2)
(NOT SUPPLIED)

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)

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

DIMENSIONS TO SHARP POINTS

SHEET NAME Sheet1		TITLE 17010 BUMPER ON 2005 WESTERN STAR 4900 HIGHWAY	
CURRENT CUSTOMER	STOCK NUMBER	VENDOR NUMBER	WEIGHT - LB. 9750.
WO#	DRAWN BY GW	DRAWN DATE 8/2/2005	REV. C
SCALE 1:12	MODELLER GW	DRAWING NUMBER AA-12236	NUMBER OF SHEETS