

16100 & 16200 MOUNTING RAIL INSTALLATION KIT

CUSTOM MOUNTING BRACKETS REQUIRED ON SOME INSTALLATIONS

DEALER/INSTALLER:

- 1) Provide this manual to end user.
- 2) Physically demonstrate procedure in this manual to end user.
- 3) Have end user demonstrate that he/she understands procedures.

END USER:

10

11

12

13

14 15 18

10

2

2

2

1

1/2-13

1/2-13 x 4 1/2

CM-16100-TS

1/2" CM-SP52

1/2"

HEX NUT

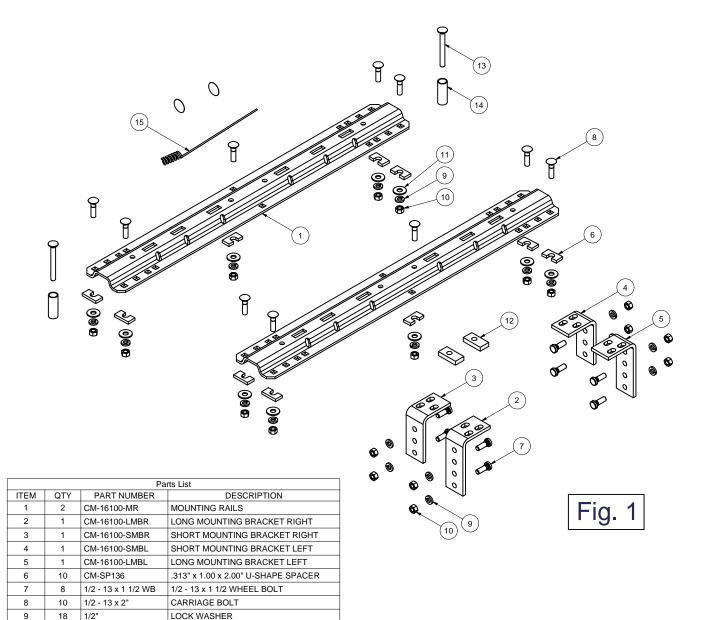
CARRIAGE BOLT

FISHWIRE TOOL

.500 x 1.25 x 2.50" ROUND HOLE SPACER

ROUND TUBE 1.00 OD x 14GA A-513

- 1) Read and follow this manual every time you use hitch.
- 2) Save this manual for future reference.
- 3) Pass on copies of manual to any other user or owner of hitch.



CUSTOM MOUNTING BRACKETS REQUIRED ON SOME INSTALLATIONS

Curt Manufacturing Inc., warrants this product to be free of defects in material and/or workmanship at the time of retail purchase by the original purchaser. If the product is found to be defective, Curt Manufacturing Inc., may repair or replace the product, at their option, when the product is returned, prepaid, with proof of purchase. Alteration to, misuse of, or improper installation of this product voids the warranty. Curt Manufacturing Inc.'s liability is limited to repair or replacement of products found to be defective, and specifically excludes liability for incidental or consequential loss or damage.

GENERAL INSTRUCTIONS FOR MOUNTING RAIL INSTALLATION

TOOLS 3/16" drill 17/32" drill 1" drill (Some Dodge application only)

3/4" Socket & Open End Wrench 150 lb-ft Torque Wrench "C" Clamps

1. The following instructions should be used to mount the 5th wheel. Care and attention to detail will ensure a quality installation. Check parts against parts list to become familiar with parts in kit. (See Fig. 1)

2. Raise rear of truck high enough to allow jack stands to be placed under rear spring hanger bracket of truck. This will provide maximum room to install the 5^{th} wheel brackets.



If the truck is raised, be sure that the truck is properly blocked and restrained to prevent the truck from falling. Failure to do so may result in the truck suddenly falling, causing death or serious injury.

3. Do not install mounting rails over plastic bed liners. Plastic bed liners must be cut out of the way. Mounting rails may be installed on spray in liner. **Note**: Consult installer for recommended curing time.

4. Use only the supplied bolts, nuts, and washers to install this kit. All installation hardware is grade 5 unless otherwise specified.

5. Specific instructions for most commonly used vehicles are included. If these instructions do not apply to your vehicle, be sure that each end of each base rail is connected to the vehicle frame. Each frame bracket must be bolted to the vehicle frame with two bolts, unless optional weld is used.



These instructions are guidelines only. Actual installation is the responsibility of the installer and the owner. Always measure truck and trailer before installing hitch to be sure that there is clearance at the cab and at the bumper to allow for turns.

To prevent the trailer from hitting the cab with the trailer turned 90°, the center of the hitch should be at least 52" from the back of the cab when using a long bed truck. (Actual distance required will depend on trailer width and king pin location.) Short bed (Minimum 38" from back cab to axle center line) trucks require a minimum of a 13" extended pin box for regular maneuvers and do not apply.

6. Measurements are given from Rear Edge of truck bed to rear edge of the mounting rail closest to the Rear Edge of truck for most vehicle applications (See Fig. 2).

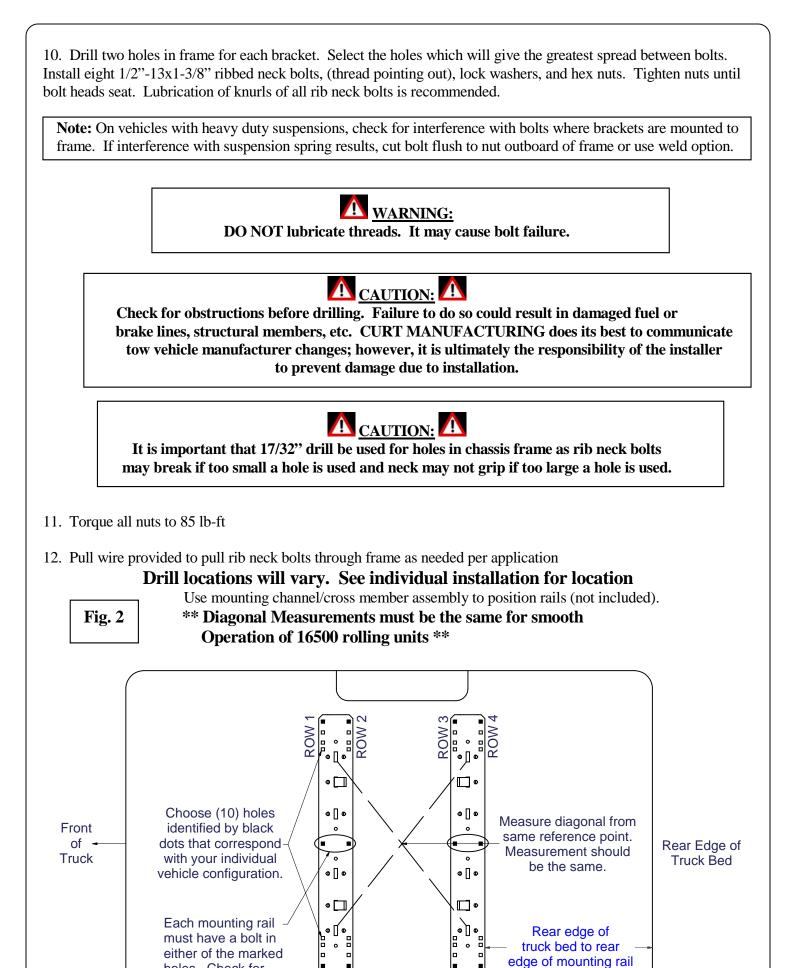
7. Center hitch between fender wells and make sure rails are square. Adjust position of rails until both diagonal measurements are the same. This should allow installation of a gooseneck or other 5th wheels to these rails (See Fig. 2).



Check for obstructions before drilling. Failure to do so could result in damaged fuel or brake lines, structural members, etc. CURT MANUFACTURING does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.

8. Drill 10 holes identified in Fig. 2. (Hole location will vary for individual vehicle applications.) Drill all holes with 3/16" drill and enlarge them with a 17/32" drill. Always use sharp drill bits. A 3/16" pilot hole will greatly speed drilling larger holes. Install 1/2" carriage bolts into holes. Install 5/16" thick slotted spacer above or below bed to fill corrugations in bed floor. **NOTE: For Toyota Tundra application, part #16302 spacer kit is required. Stack (1) 3/16" and (1) 5/16" thick slotted spacer to avoid crushing of truck bed.**

9. Install mounting brackets onto carriage bolts with the long brackets on forward bolts and short brackets on rearward (long and short brackets can be interchanged as needed). Secure bolts through mounting brackets with serrated washers, lock washers, and hex nuts. Secure the other four bolts through the bed with flat washers, lock washers, and nuts.



3

holes. Check for obstructions before

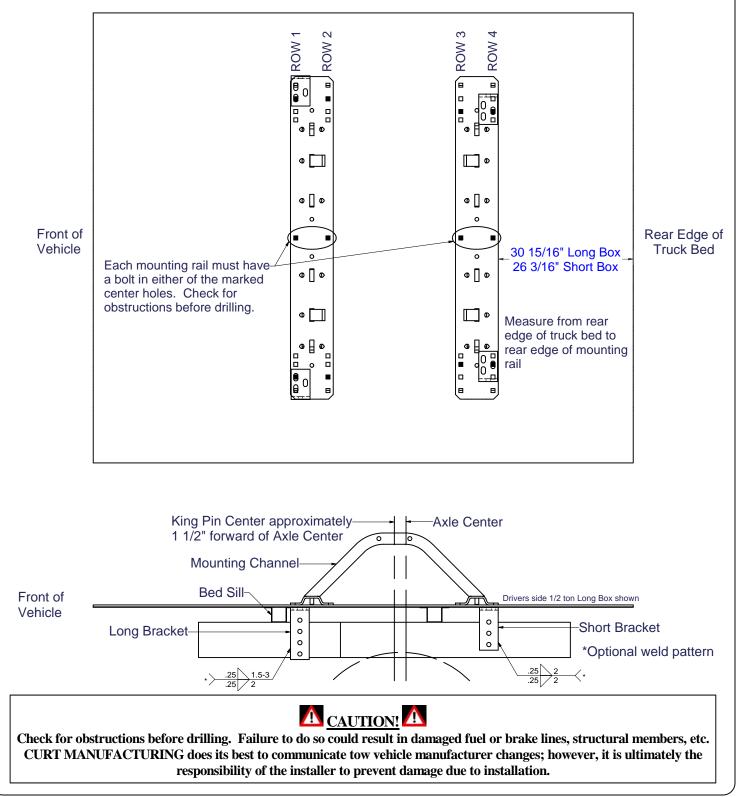
drilling.

CHEVROLET/GMC 88-98, 92-98 4-DOOR, '99 SILVERADO SIERRA CLASSIC (WITH TAPERED FRAME) (RED TURN SIGNALS)



Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

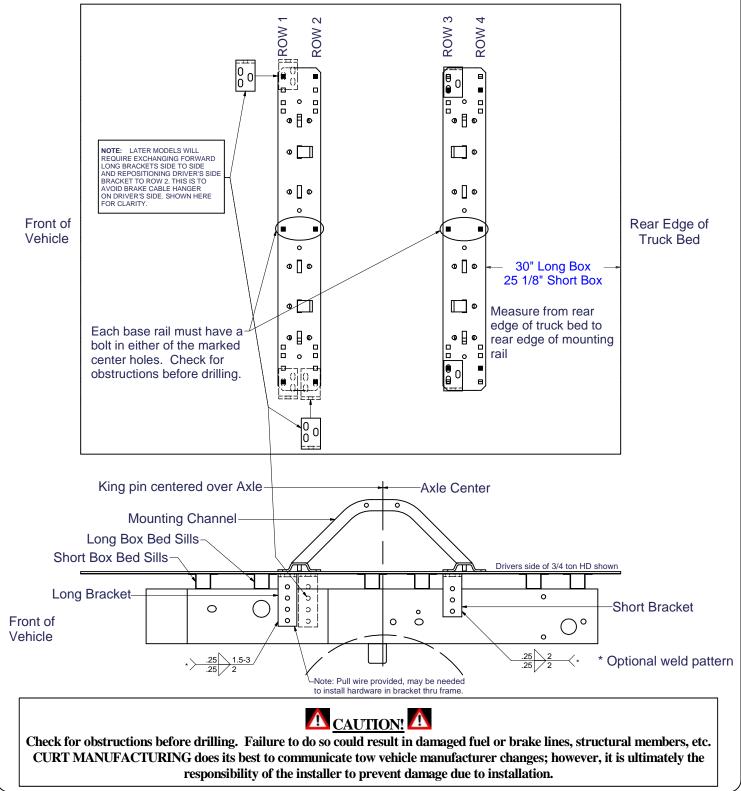


GM '99 Silverado, Sierra (not Sierra Classic) models, GM '00 to '10 Silverado, Sierra models including HD models



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IMPORTANT NOTES FOR THIS INSTALLATION:



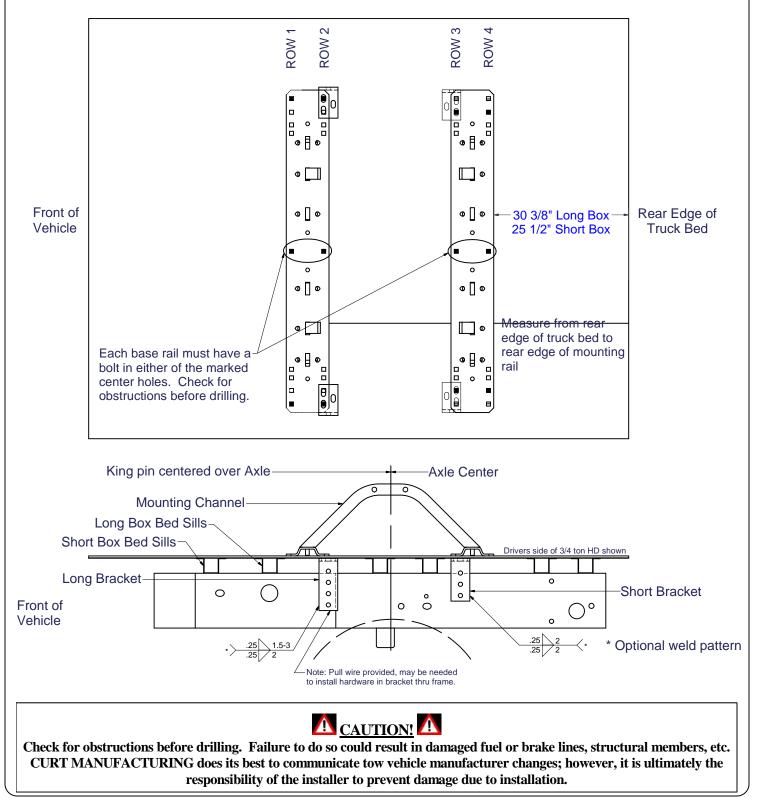
GM '11 AND NEWER SILVERADO

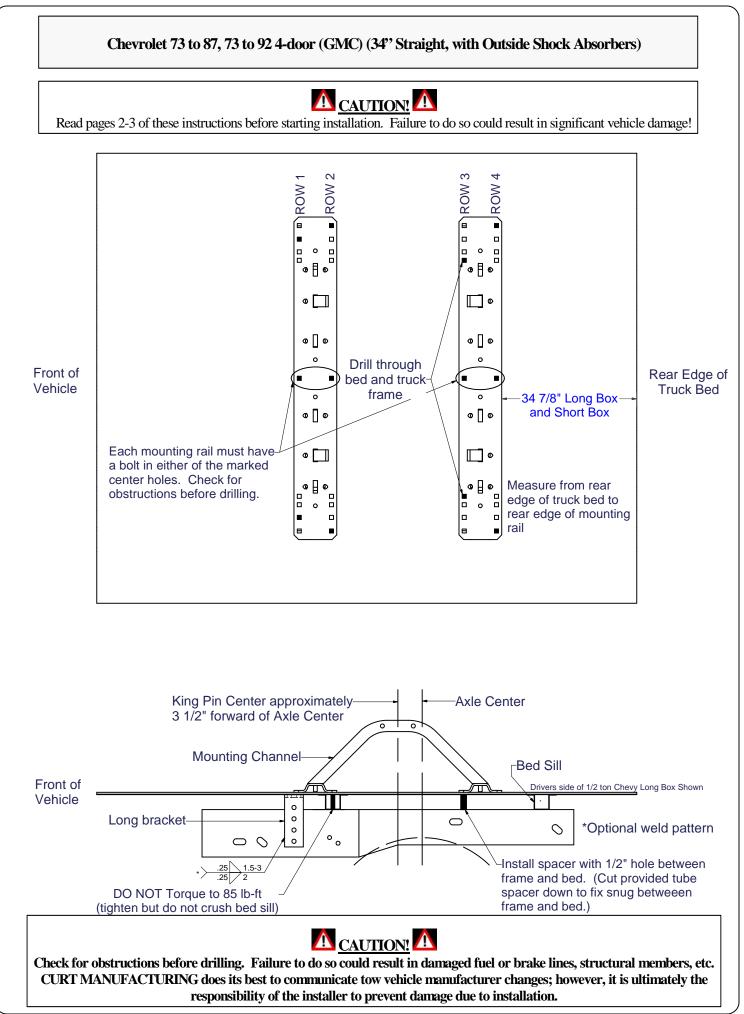
1500, 2500 AND 3500

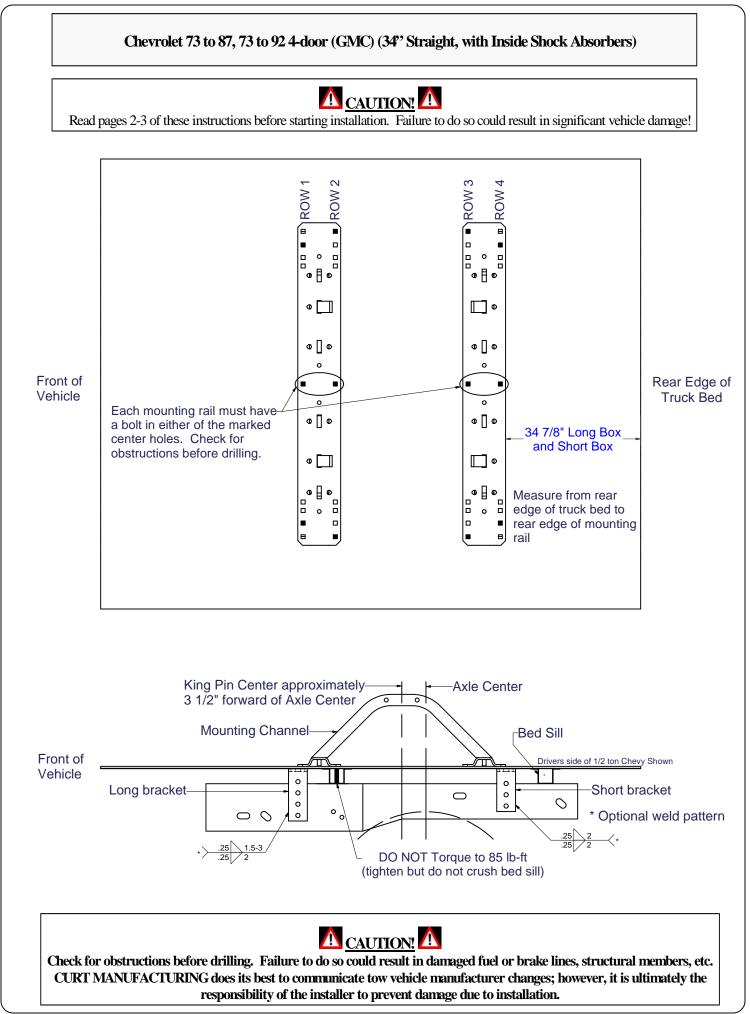


Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:







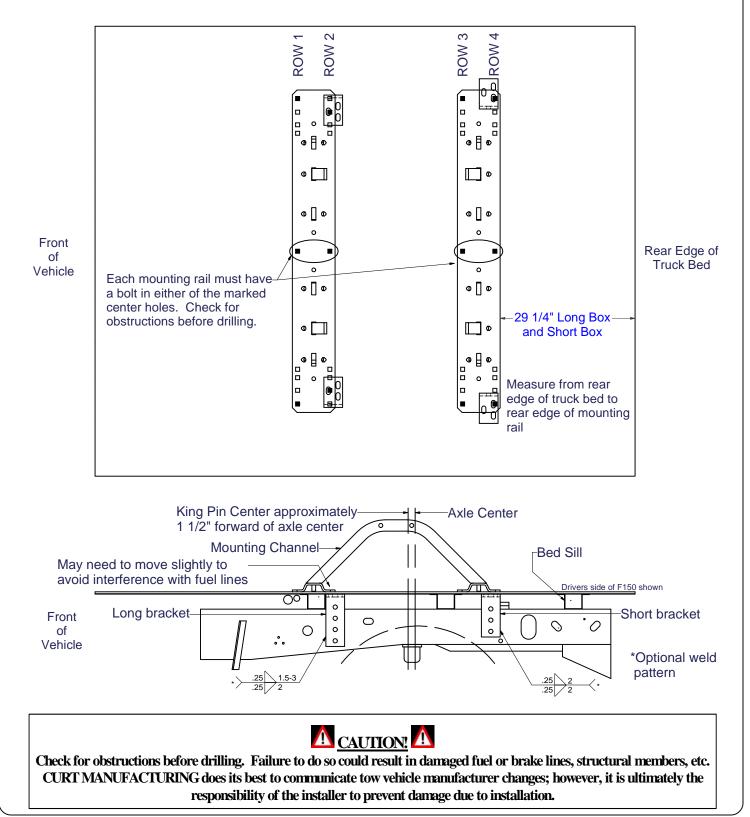
Ford '97 to '03 F-150 & F-250 8500 GVW AND UNDER and '04 Heritage Series Body Style

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

- 1. Long and Short Brackets on Driver's Side may need to be switched to avoid interference with exhaust hanger.
- 2. You may need to move mounting rail location +/- 1/2" to ensure frame brackets do not interfere with bed sills.



A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

1. Do not drill through both walls of frame. Drill only through wall of frame to which bracket is mounted.

2. Find parallel rows of bed sill spot welds in bed of truck. No drilling should be done in the \sim 4" between parallel rows of spot welds where the bed sill sits.

2 ROW ROW ROW ROW 3. Remove jounce block from Bottom of frame on both sides. 0 4. When brackets are in place ॑ ऀॿऻॖॖॖॖॖॖ Drill (2) center holes one of the front 2 holes should shown in addition to ₽ø line up with a hole in the frame. (8) holes for A hole will need to be drilled in CM-16100-TS. Install @ [] @ 0 [] 0 the frame at the rearward 1/2" carriage bolts. bracket hole. u-shaped spacers above or below bed 0 || 0 0 | 0 5. Pull carriage bolts with bolt to fill bed corrugation, plates (using supplied pull wire) Front and bolt plate below Rear Edge of through the hole in the bottom of bed with washer and Truck Bed Vehicle of frame (where the jounce 0 0 nut. **∞**∏ ∞ block was removed) and through 0 || 0 the rear hole in each bracket. On the forward brackets a carriage 29 5/16" Long 0 0 0 0 bolt, spacer, and a 1" washer and Short Box should be pulled through the ⊚⊟ forward hole. On the rearward brackets a carriage bolt, spacer, and 13/16" washer. Measure from rear **6.** Replace the jounce block. edge of truck bed to rear edge of mounting rail King Pin Centered approximately Axle Center 1 1/2" forward of Axle Center Bracket Mounting Channel Washer filling larger Bed Sill hole in frame Drivers side of F-150 shown Drilled Hole Carriage Bolt Optional weld pattern Hole in Frame Frame Hole in Frame **Drilled Hole** Jounce Block Front of -Lock washe Vehicle Nut A CAUTION! Check for obstructions before drilling. Failure to do so could result in damaged fuel or brake lines, structural members, etc. CURT MANUFACTURING does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.

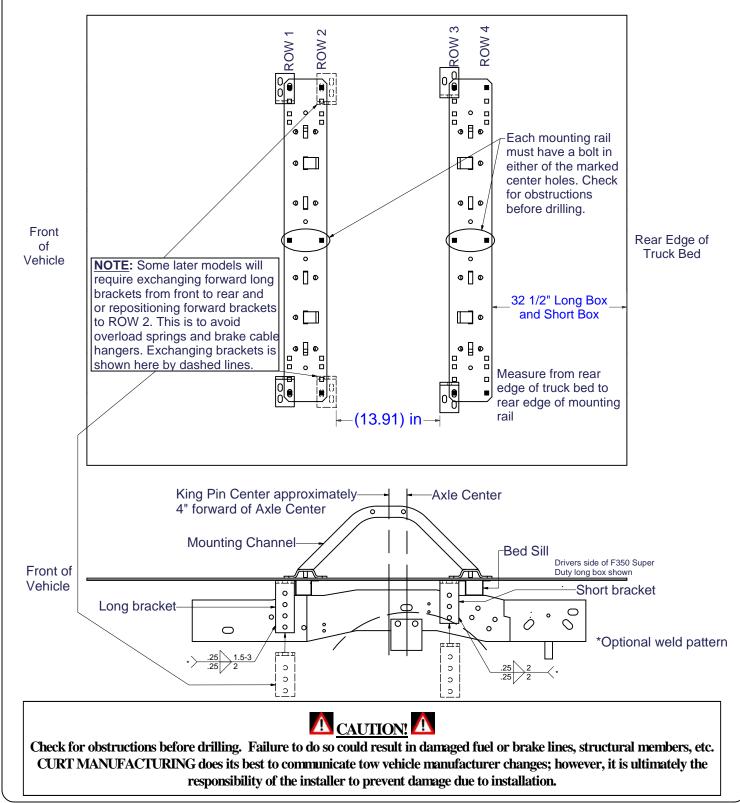
FORD F-150 & F-250 THROUGH '96, '97 F-250 OVER 8500 GVW, F350 THROUGH '97 1999 & NEWER F-250 / F-350 & f-450 SUPERDUTY (Not cab and chassis)

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

- 1. On short bed vehicles, attach Driver's Side forward bracket on Row 2 to avoid interference with fuel lines.
- 2. On vehicles with overload springs, switch position of long and short brackets.
- 3. You may need to move the mounting rail location $+/-\frac{1}{2}$ " to ensure frame brackets do not interfere with bed sills.



DODGE '02 TO '08 1500, '03 AND NEWER 2500 WITHOUT OVERLOAD BRACKETS

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

- 1. Tube spacer and 4 1/2" carriage bolt used to attach through rearward Bed Sill (Row 3).
- 2. **Rib neck bolts will need to be pulled through access holes in frame with supplied pull wire (see below).
- 3. Do not drill thru both walls of

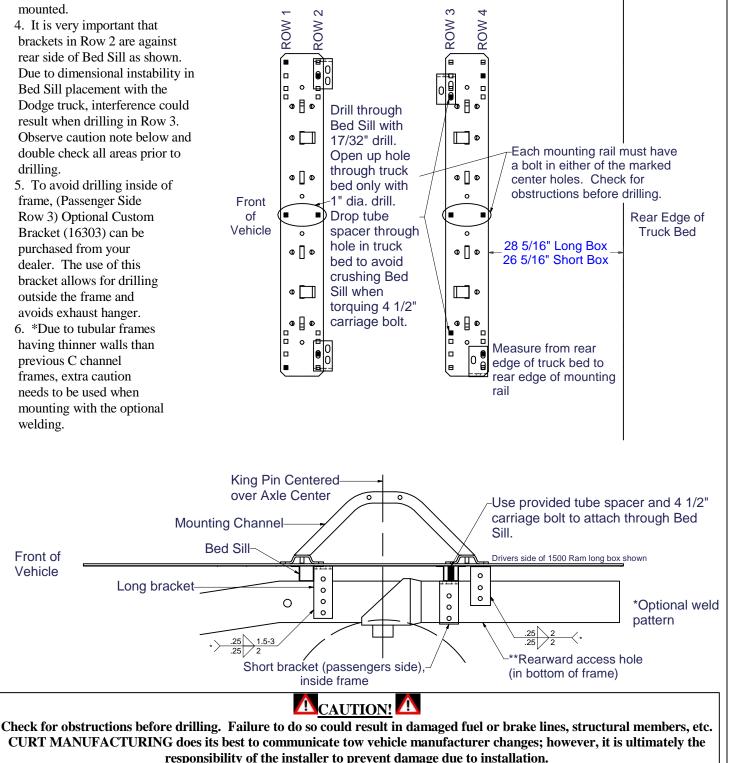
frame. Drill only thru wall of frame to which bracket is mounted.

4. It is very important that brackets in Row 2 are against rear side of Bed Sill as shown. Due to dimensional instability in Bed Sill placement with the Dodge truck, interference could result when drilling in Row 3. Observe caution note below and double check all areas prior to drilling.

5. To avoid drilling inside of frame, (Passenger Side Row 3) Optional Custom Bracket (16303) can be purchased from your dealer. The use of this bracket allows for drilling outside the frame and avoids exhaust hanger. 6. *Due to tubular frames having thinner walls than previous C channel frames, extra caution needs to be used when mounting with the optional welding.

Front of

Vehicle



DODGE '03 TO '12 2500 WITH OVERLOAD SPRINGS 3500 (REQUIRES 16301 BRACKET KIT)

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

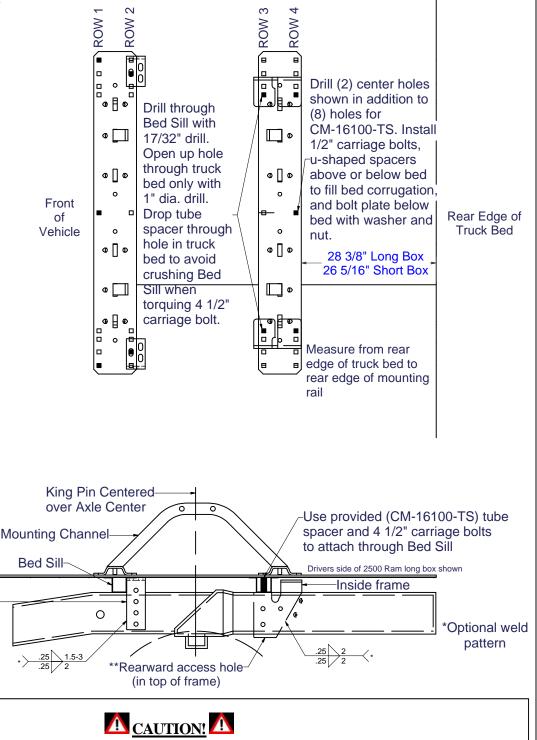
- 1. Tube spacer and 4 1/2" carriage bolt used to attach through rearward Bed Sill (Row 3).
- 2. **Rib neck bolts will need to be pulled through access holes in frame with supplied pull wire (see below).
- 3. Do not drill thru both wall of
- frame. Drill only thru wall of frame to which bracket is mounted.
- 4. It is very important that brackets in Row 2 are against rear side of Bed Sill as shown. Due to dimensional instability in Bed Sill placement with the Dodge truck, interference could result when drilling in Row 3. Observe caution note below and double check all areas prior to drilling. 5. Rear brackets can be mounted to frame with (2)bolts in any combination of the three bracket holes. 6. *Due to tubular frames having thinner walls than previous C channel frames,

extra caution needs to be used when mounting with the optional welding.

Long bracket-

Front of

Vehicle



Check for obstructions before drilling. Failure to do so could result in damaged fuel or brake lines, structural members, etc. CURT MANUFACTURING does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.

DODGE '02 THRU '08 1500 (16303 CUSTOM BRACKET KIT) 2500 WITHOUT OVERLOAD SPRINGS

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

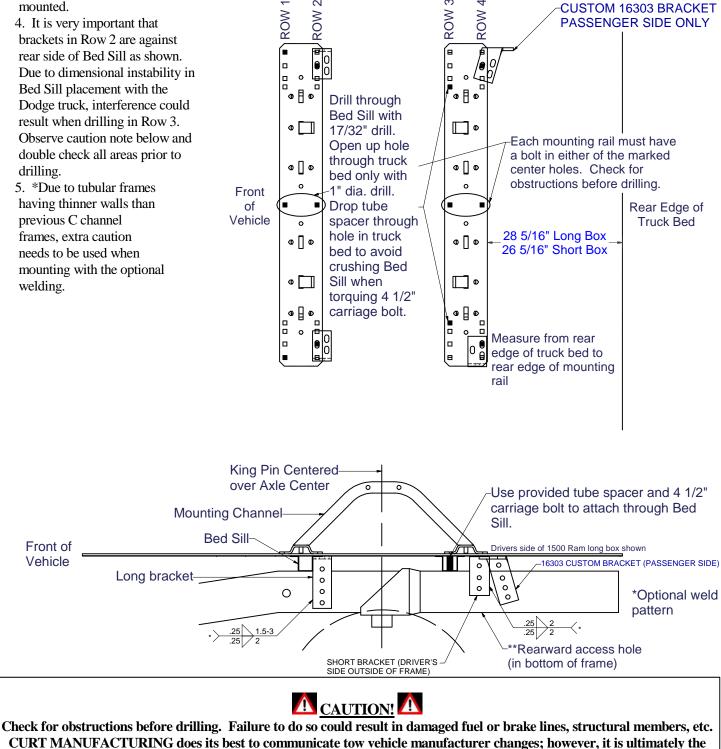
IMPORTANT NOTES FOR THIS INSTALLATION:

- 1. Tube spacer and 4 1/2" carriage bolt used to attach through rearward Bed Sill (Row 3).
- 2. **Rib neck bolts will need to be pulled through access holes in frame with supplied pull wire (see below).
- 3. Do not drill thru both walls of

frame. Drill only thru wall of frame to which bracket is mounted.

4. It is very important that brackets in Row 2 are against rear side of Bed Sill as shown. Due to dimensional instability in Bed Sill placement with the Dodge truck, interference could result when drilling in Row 3. Observe caution note below and double check all areas prior to drilling.

5. *Due to tubular frames having thinner walls than previous C channel frames, extra caution needs to be used when mounting with the optional welding.



responsibility of the installer to prevent damage due to installation.

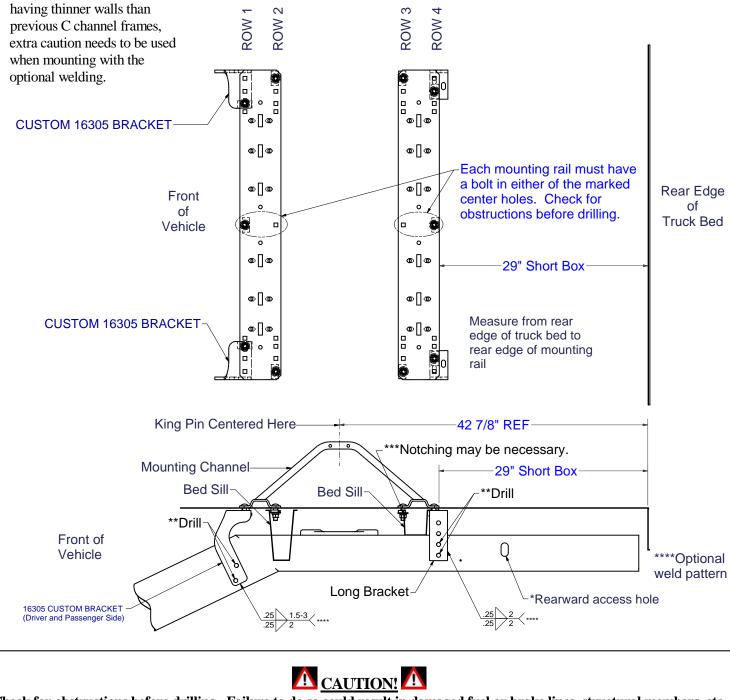
DODGE '09 AND NEWER 1500 (WITHOUT FACTORY AIR SUSPENSION) (16305 CUSTOM BRACKET KIT)



Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

- 1. *Rib neck bolts will need to be pulled through access holes in frame with supplied pull wire (see below).
- 2. Observe caution note below and double check all areas prior to drilling.
- 3. **Do not drill thru both walls of frame. Drill only thru wall of frame to which bracket is mounted.
- 4. ***It may be necessary to notch ends of bed sill in Row 3 to allow access to and the bolting down of mounting rail hardware.
 5. ****Due to tubular frames



Check for obstructions before drilling. Failure to do so could result in damaged fuel or brake lines, structural members, etc. CURT MANUFACTURING does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.

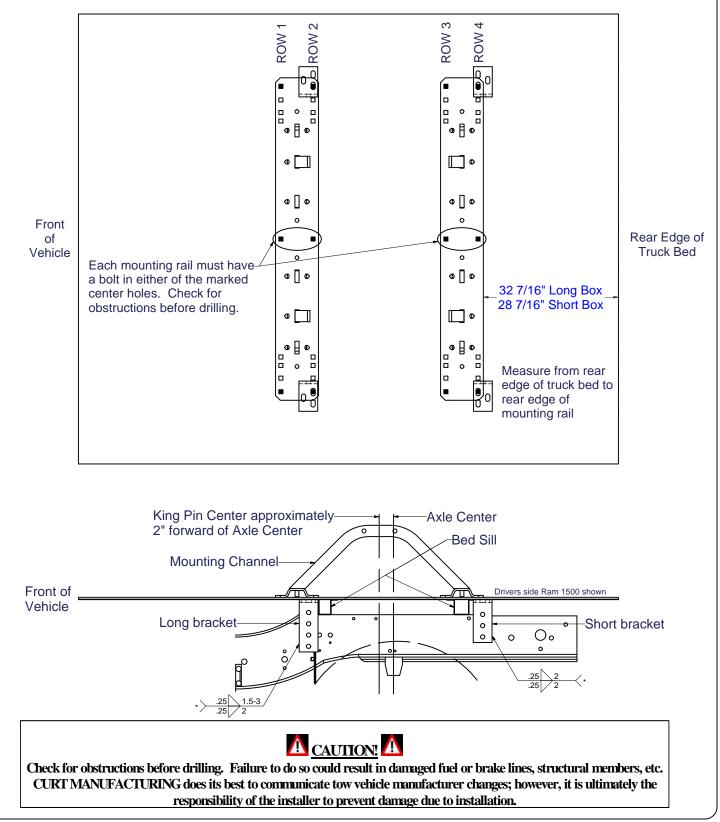
DODGE '94 TO '01 1500, '94 TO '02 2500/3500 (FULL SIZE, SHORT AND LONG BOX)



Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

1. It is very important that brackets in Row 2 are against forward side of bed sill as shown below. Due to dimensional instability in bed sill placement with the Dodge truck, interference could result when drilling in Rows 3 or 4. You may need to move the mounting rail location $+/-\frac{1}{2}$ to ensure frame brackets do not interfere with bed sills.



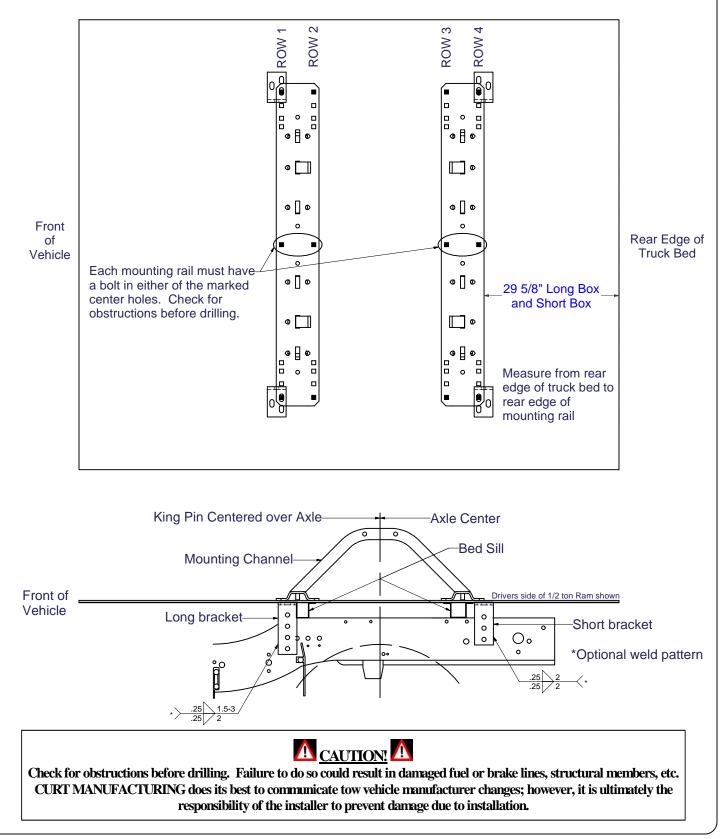
DODGE THROUGH 93 (FULL SIZE)

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

1. You may need to move mounting rail location +/- 1/2" to ensure frame brackets do not interfere with bed sills.



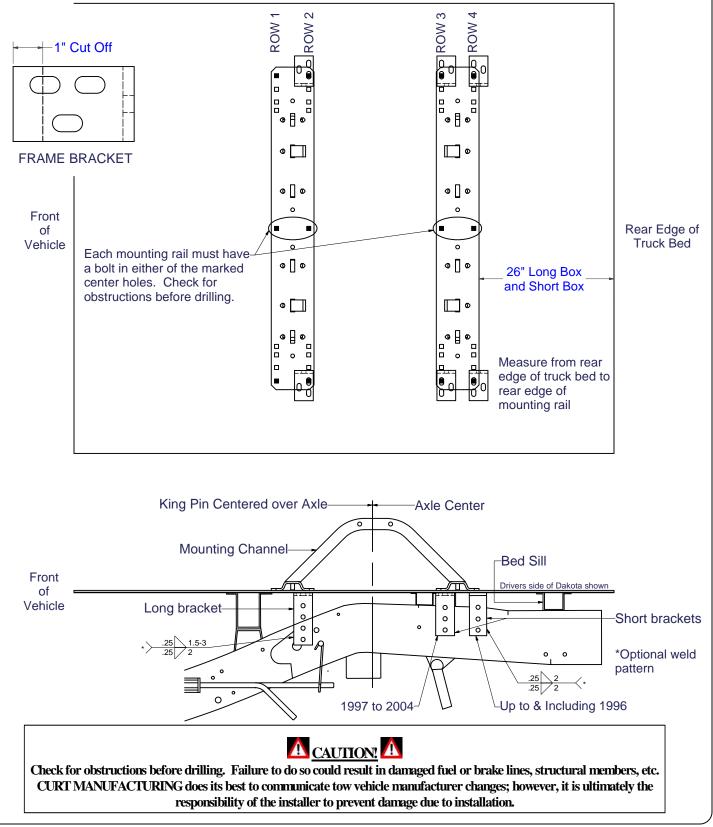
DODGE '94 TO 2004 DAKOTA

🛕 <u>caution</u>: 🛕

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

IMPORTANT NOTES FOR THIS INSTALLATION:

- 2. Cut 1" from top flange of brackets. Under bed, mount brackets with flanges facing out.
- 3. Put rear brackets on Row 3 for '97 to Present models. Put brackets on Row 4 for '96 and Earlier models.

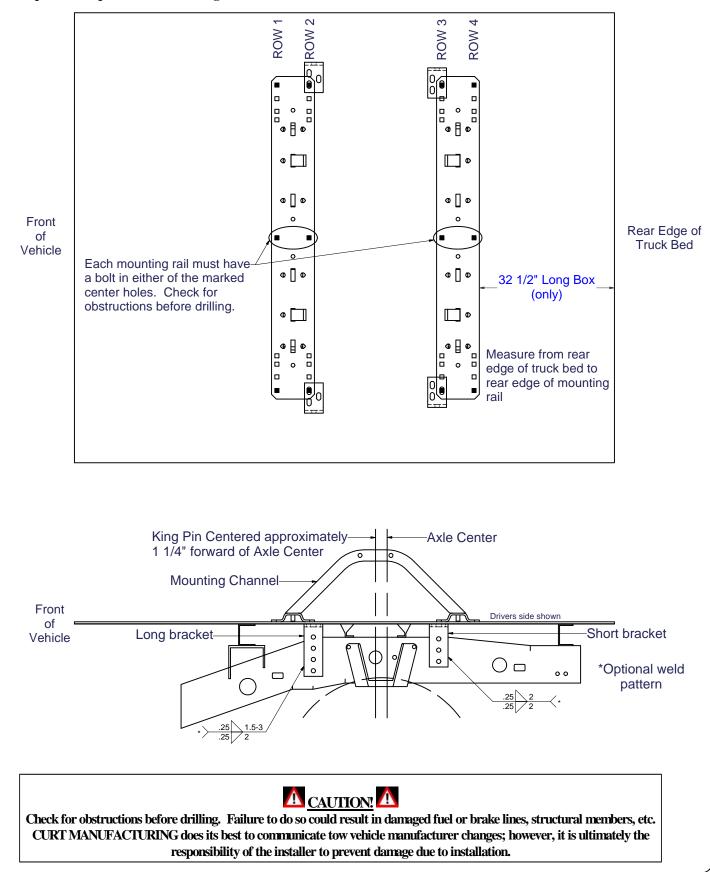


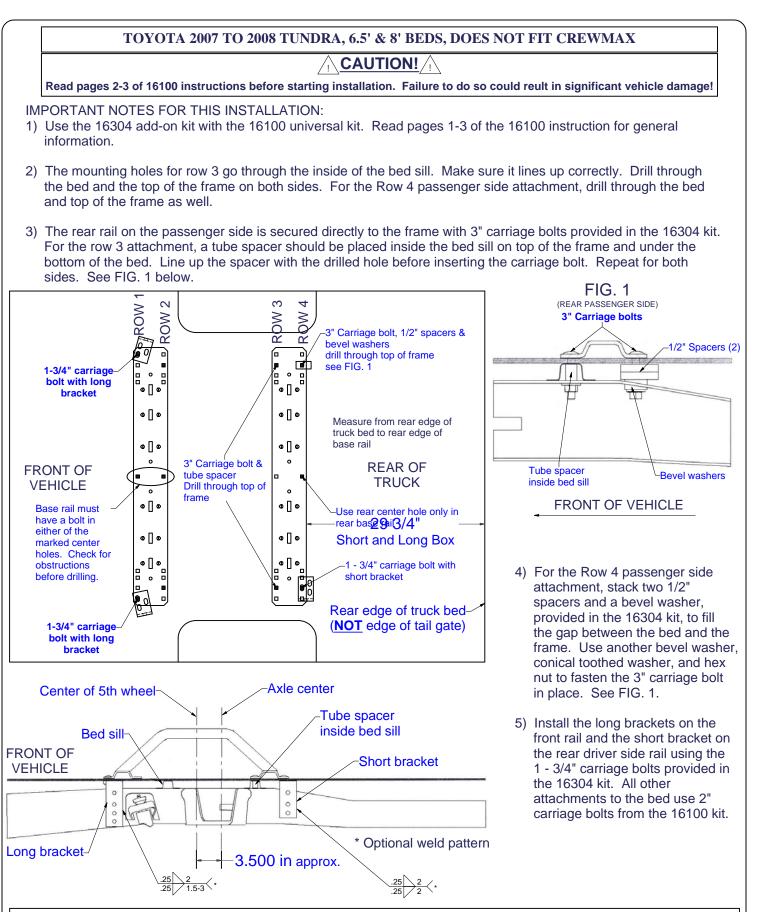
TOYOTA TUNDRA 2000 TO 2006 (STANDARD CAB LONG BOX ONLY)

A CAUTION!

Read pages 2-3 of these instructions before starting installation. Failure to do so could result in significant vehicle damage!

NOTE: For Toyota Tundra application, part #16302 spacer kit is required. Stack (1) 3/16' and (1) 5/16' thick slotted spacers as required to avoid crushing of truck bed.





Check for obstructions before drilling. Failure to do so could reult in damaged fuel or brake lines, structural members, etc. CURT MANUFACTURING does its best to communicate tow vehicle manufacturer changes; however, it is ultimately the responsibility of the installer to prevent damage due to installation.