

INSTALLATION OF FRONT MOUNTING KIT 2008-2016 FORD SD

INSTALLATION SAFETY PRECAUTIONS

If any installation problems are encountered, please call G&B Specialties, Inc. for technical assistance before continuing with the installation process.



- Failure to heed to any of the following warnings could result in severe bodily injury and/or equipment damage.
- Read and understand this manual completely before attempting installation of the equipment.
- Installation instructions provided below only address the G&B Specialties railgear equipment. Applicable railway company procedures and policies must be adhered to.
- Before performing any work under the vehicle or railgear, ensure the engine is turned off and the parking brake is set.
- Ensure all removed components are given to the vehicle owner after the installation of the railgear. These components must be re-installed if the railgear is removed from the vehicle.
- Always disconnect the vehicle's battery when welding on the vehicle or railgear to protect the vehicle's electrical system.
- Railway Company rules governing rail travel must be observed at all times.
- Never operate the vehicle if the Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating Front or Rear (GAWR), or the wheel or tire load ratings are exceeded.

INSTALLATION OF FRONT MOUNTING KIT

The following procedure details the installation of the front mounting kit. The hardware required for this installation is listed in the table below.

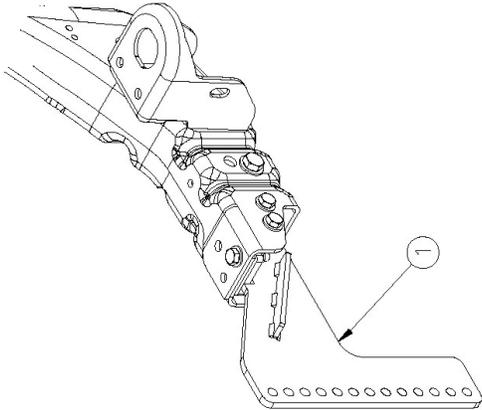
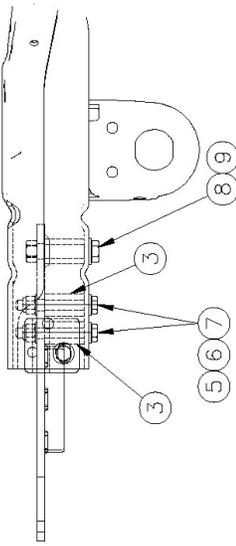
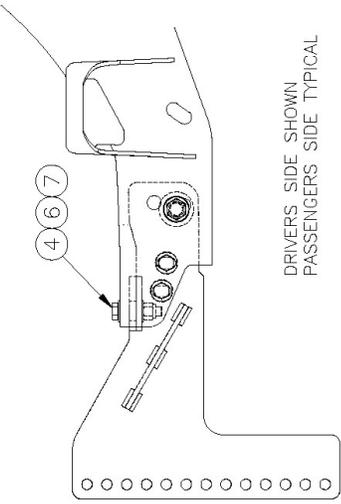
Front Mounting Kit Installation Parts

Part Number	Description	Qty
R-32840	Front Mounting Bracket, Drivers Side	1
R-32840	Front Mounting Bracket, Passengers Side	1
R-32215	Frame Spacer	4
R-32848	Sight Wand Set w/ Fasteners	1
R-32842	Fender Washer	2
R-990KIT-398	1/2" UNC Gr. 8 Bolt x 2" Long	2
	1/2" UNC Gr. 8 Bolt x 3.75" Long	4
	1/2" UNC Gr. 8 Nylon Insert Lock Nut	6
	1/2" Gr. 8 Flat Washer	12
	5/8" UNC Gr. 8 Bolt x 3.50" Long	4
	5/8" Gr. 8 Flat Washer	2

1. Remove the front bumper and tow hooks. Retain the bumper for re-installation. The tow hooks will not be re-installed.
2. Position the mounting brackets inside the front frame as shown.
3. Align the slot in the top mounting plate with the hole in the top frame rail. Loosely bolt with supplied 1/2" hardware.
4. Align the rear most hole in the mounting bracket with the slot in the outer frame rail. Loosely bolt with supplied 5/8" hardware.
5. Insert frame spacers between the mounting bracket and inside face of the outer frame rail. Loosely bolt thru frame, spacers and brackets with supplied 1/2" hardware.
6. Tighten all fasteners. Ensuring all frame spacers are tight up against the inside face of the outer frame rail
7. Torque 1/2" and 5/8" fasteners to 100 ft-lbs dry.
8. Repeat steps 2 thru 7 for opposite mounting bracket.

The front bumper will need to be trimmed/modified as required by the installer if re-installed.

REV	CHANGE	DATE	BY	APPD
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DRIVERS SIDE SHOWN
PASSENGERS SIDE TYPICAL

FRAME SPACERS
FLUSH AGAINST
FRAME RAIL

INSTALLATION:

1. SLIDE BRACKET INSIDE FRAME AS SHOWN.
2. ALIGN THE SLOT IN THE TOP MOUNTING PLATE WITH THE HOLE IN THE FRAME. LOOSELY BOLT WITH SUPPLIED 1/2" HARDWARE.
3. ALIGN THE REAR MOST HOLE IN THE BRACKET WITH THE HOLE IN THE OUTER FRAME RAIL. LOOSELY BOLT WITH SUPPLIED 5/8" HARDWARE.
4. INSERT FRAME SPACERS BETWEEN THE MOUNTING BRACKET AND THE INSIDE SURFACE OF THE OUTER FRAME RAIL AND BOLT THRU THE FRAME RAIL, SPACERS AND BRACKETS WITH THE SUPPLIED 1/2" HARDWARE.
5. TIGHTEN ALL FASTENERS. ENSURING ALL FRAME SPACERS ARE TIGHT AGAINST THE INNER SURFACE OF THE OUTER FRAME RAIL.
6. TORQUE ALL FASTENERS TO 100 FT-LBS DRY.

PRIOR TO 10/2015

ITEM	PART No.	DESCRIPTION OF ITEM(PART)	QTY.
1	R-30080D	FRONT MTG BRKT, DS	1
2	R-30080P	FRONT MTG BRKT, PS	1
3	R-32215	FRAME SPACER	4
4	H.H.C.S.	1/2" UNC GR.8 x 2"	2
5	H.H.C.S.	1/2" UNC GR.8 x 3.75"	4
6	F'WASHER	1/2" SAE GR.8	12
7	NYLOCK NUT	1/2" UNC GR.8	6
8	H.H.C.S.	5/8" UNC GR.8 x 3.50"	2
9	F'WASHER	5/8" SAE GR.8	2

TOLERANCE OR FINISHED DIMENSIONS UNLESS OTHERWISE SPECIFIED	FRACTIONS	DECIMALS	CHECKED
2 PLACE	± .005	± .005	03/03/15
UP TO 6 INCHES	± .02	± .03	03/03/15
6 TO 24	± .03	± .04	03/03/15
ABOVE 24	± .06	± .08	03/03/15
ANGULAR DIMENSIONS	± 1/2°		

G & B SPECIALTIES INC.
MANUFACTURER OF QUALITY ALUMINUM PRODUCTS
BERWICK PENNSYLVANIA (717) 752-5901 FAX (717) 752-6397

DESIGN - ENGINEERING - MANUFACTURING

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DRAWING NUMBER: R-307
DATE ISSUED: 4/7/15
SHEET: 1 OF 1
REVISION: K-M37XRFF001

OPERATION & SERVICE OF FRONT MOUNTING KIT 2008-2016 Ford SD

OPERATION & SERVICE SAFETY PRECAUTIONS

If any operating, services or parts problems are encountered, please call G&B Specialties, Inc. for technical assistance.



- Failure to heed to any of the following warnings could result in severe bodily injury and/or equipment damage.
- Read and understand this manual completely before attempting operation of the railgear equipped vehicle.
- Operating instructions provided below only address the RAFNA railgear equipment. Applicable railway company procedures and policies must be adhered to.
- Railway company rules governing rail travel must be observed at all times.
- Before performing any work under the vehicle or railgear, ensure the engine is turned off and the parking brake is set.
- Never operate the vehicle if the Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating Front or Rear (GAWR), or the wheel or tire load ratings are exceeded.

OPERATION & SERVICE OF FRONT MOUNTING KIT

With the front mounting kit installed on this vehicle, it may be operated as normal; however the front bumper is located further forward than standard. Side wands are located on the front bumper to aid in determining the length and width of the vehicle. Caution must be used when operating the vehicle.

Never operate the vehicle if the Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating Front or Rear (GAWR), or the wheel or tire load ratings are exceeded.

The front mounting kit must be serviced regularly to avoid damage to the equipment. Table 1 below provides the Recommended Service Schedule and Table 2 provides Standard Fastener Torque Values.

Table 1: Recommended Service Schedule

Service Required	Initial 100 km (62 Miles) of road and/or rail use	6 Months
Inspect front mounting kit fasteners (re-torque if required)		✓

Table 2: Standard Fastener Torque Values

Fastener Size	Fastener Torque Value (ft-lbs) Dry
1" UNC Gr. 8 Fasteners	250
¾" UNC Gr. 8 Fasteners	175
5/8" UNC Gr. 8 Fasteners	150
½" UNC Gr. 8 Fasteners	100
3/8" UNC Gr. 8 Fasteners	40
¼" UNC Gr. 8 Fasteners	12