

**INSTALLATION OF R-150 FRONT MOUNTING KIT
1999-2005 DODGE DAKOTA
1999-2011 DODGE DURANGO**

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 Rafna 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.
- Beware of all pinch points on the railgear and keep all parts of the body clear.
- 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.
- Railway Company rules governing rail travel must always be observed.
- Never operate the vehicle if the Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating (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 table 1.

Table 1: Front Mounting Kit Installation Parts

Part Number	Description	Qty
R-1823L	Mounting Bracket (Left Side)	1
R-1823R	Mounting Bracket (Right Side)	1
R-990KIT-032	1/2" UNC Gr. 8 Bolt x 2.0" Long	6
	1/2" Gr. 8 Washer	12
	1/2" UNC Gr. 8 Nylock Nut	6

1. Remove the front bumper and front tow hooks. The front-most body mount bolt will have to be removed and will be reinstalled later. The tow-hooks will not be re-installed.
2. If it is desired to have the OEM front bumper reinstalled, it will have to be trimmed and modified to fit over the mounting brackets and railgear.
2. Align each of the mounting brackets with the front of the vehicle frame by sliding them onto the frame from the inside toward the outside. The square tube should fit tightly against the bottom of the vehicle frame and the small angle should be tight against the top of the vehicle frame. The mounting brackets should be tight against the front of the vehicle frame.
3. For each of the brackets, install three 1/2" x 2.0" long bolts, six 1/2" washers and three 1/2" nuts as shown. Tighten but do not torque these fasteners.
4. Reinstall the front-most body-mount bolts through the rear-most slots of the mounting brackets.
5. Torque the 1/2" fasteners to 100 ft-lbs dry. Do not over torque. Torque the body mount bolt to OEM specifications.

**OPERATION, SERVICE, AND PARTS OF R-180 FRONT MOUNTING KIT
1999-2005 DODGE DAKOTA
1999-2011 DODGE DURANGO**

OPERATION AND SERVICE SAFETY PRECAUTIONS

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



- Failure to heed 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 industries railgear equipment. Applicable railway company procedures and policies must be adhered to.
- Railway Company rules governing rail travel must be observed at all times.
- Ensure that the position and function of all railgear controls are known before attempting operation.
- Ensure the railgear is locked in road or rail position before starting road or rail travel respectively.
- Ensure all body parts and loose clothing are clear of any moving parts of the equipment.
- If misalignment of the railgear equipment is indicated, promptly perform the alignment procedure.
- Before performing any work under the vehicle of 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 AND SERVICE OF FRONT MOUNTING KIT

With the front mounting kit installed on this vehicle, it may be operated as normal.

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.

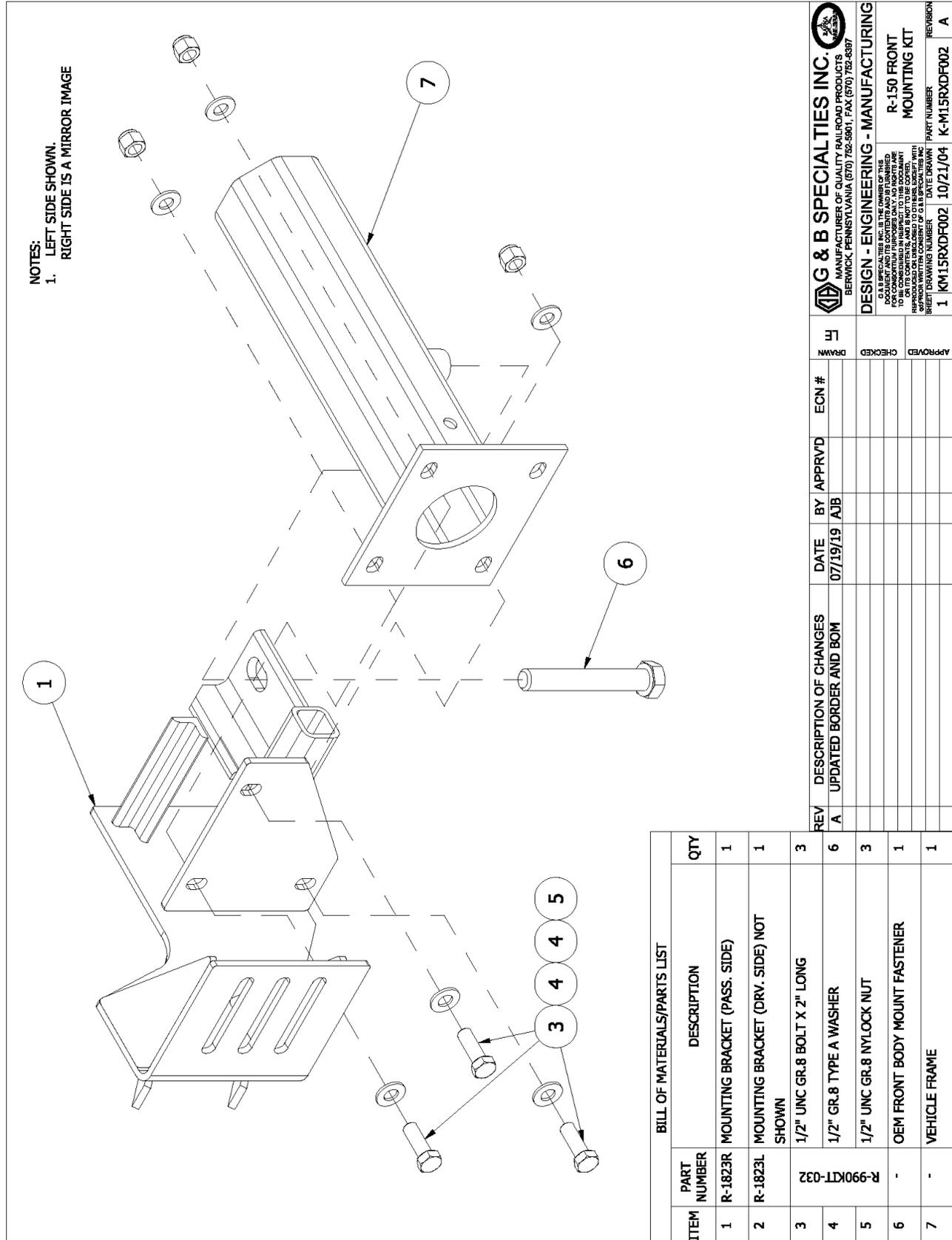
The front mounting kit must be serviced regularly to avoid damage to the equipment. Table 1 below provides the Recommended Service Schedule and Table 2 provides Standard Fastener Torque Values.

Table 1: Recommended Service Schedule

Service Required	6 Months
Inspect front mounting kit fasteners (re-torque if required)	✓

Table 2: Standard Fastener Torque Values

Fastener Size	Torque Value (ft-lbs) Dry
1" UNC Gr. 8 Fasteners	250
3/4" UNC Gr. 8 Fasteners	175
5/8" UNC Gr. 8 Fasteners	150
1/2" UNC Gr. 8 Fasteners	100
3/8" UNC Gr. 8 Fasteners	40
1/4" UNC Gr. 8 Fasteners	12



BILL OF MATERIALS/PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	R-1823R	MOUNTING BRACKET (PASS. SIDE)	1
2	R-1823L	MOUNTING BRACKET (DRV. SIDE) NOT SHOWN	1
3		1/2" UNC GR.8 BOLT X 2" LONG	3
4		1/2" GR.8 TYPE A WASHER	6
5	R-990KT-032	1/2" UNC GR.8 NYLOCK NUT	3
6	-	OEM FRONT BODY MOUNT FASTENER	1
7	-	VEHICLE FRAME	1

REV	DESCRIPTION OF CHANGES	DATE	BY	APPRVD	ECN #	APPROVED
A	UPDATED BORDER AND BOM	07/19/19	AJB			CHECKED
						DRAWN
						FM

 G & B SPECIALTIES INC. MANUFACTURER OF QUALITY RAILROAD PRODUCTS BERWICK, PENNSYLVANIA (870) 752-5901, FAX (870) 752-6397	
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SHEET DRAWING NUMBER	DATE DRAWN
1 KM15RXDF002	10/21/04
PART NUMBER	REVISION
K-M15RXDF002	A