

## INSTALLATION OF R-230 FRONT MOUNTING KIT 2005-2012 GMC CANYON/ CHEVROLET COLORADO

### 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.
- Always disconnect the vehicle's battery when welding on the vehicle or railgear to protect the vehicle's electrical system.
- 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

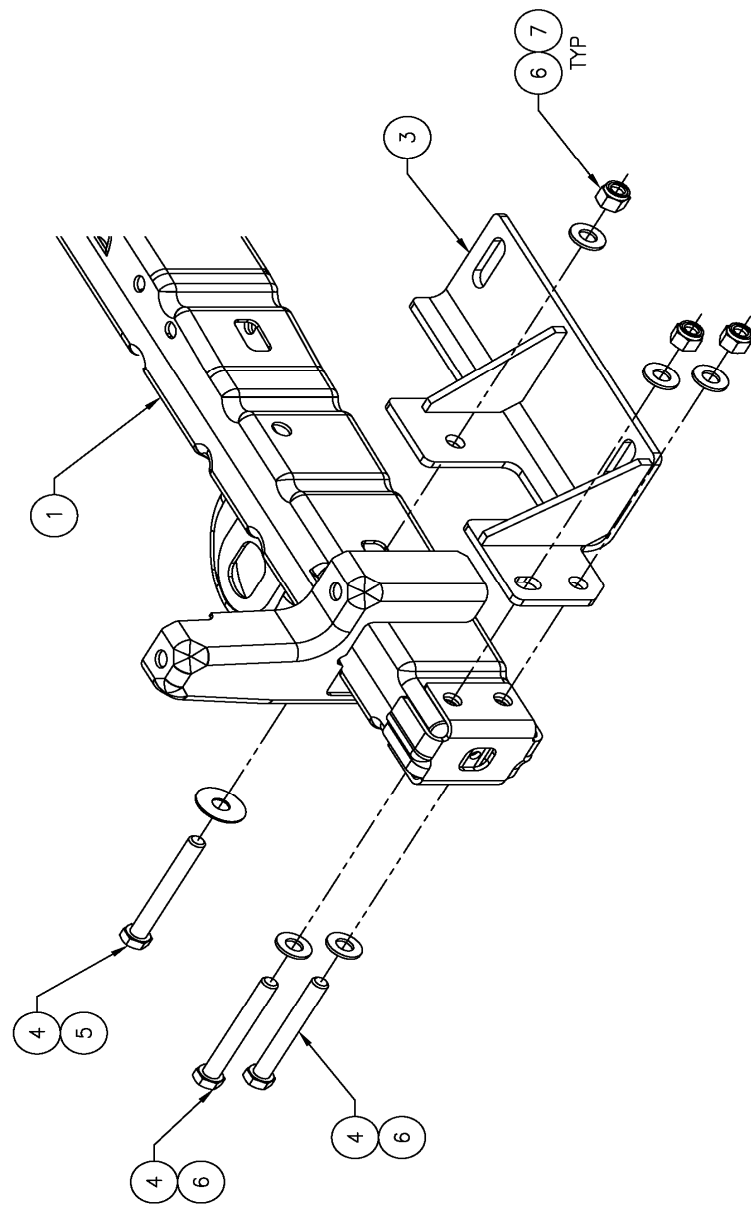
Part Number	Description	Qty
R-20260D	Front Mounting Bracket, Drivers Side	1
R-20260P	Front Mounting Bracket, Passengers Side	1
R-20042	Railgear Mounting Shim - 1/2" Thick	2
R-20041	Railgear Mounting Shim - 1/4" Thick	2
R-20040	Railgear Mounting Shim - 3/4" Thick	2
R-051	Side Wand Set	1
R-990KIT-285 (Railgear Mounting)	5/8" UNC Gr.8 Bolt X 3.50"	4
	5/8" UNC Gr.8 Bolt X 4.50"	4
	5/8" UNC Gr.8 Bolt X 5.50"	4
	5/8" Type- A Flat Washer Gr.8	8
	5/8" UNC GR.8 Nylock Nut	4
R-990KIT-287 (Mounting Bracket Install)	1/2" UNC Gr.8 Bolt X 4.00"	6
	1/2" Type- A Flat Washer Gr.8	10
	1/2" UNC GR.8 Nylock Nut	6
	1/2" Fender Washer (1.50" OD)	2

1. Remove Front Bumper.
2. Position the front mounting brackets on the inner side of the frame as shown. Ensure that the mounting brackets are tight against the inside of the frame. The holes in the mounting brackets should align with existing holes the in the vehicle frame.
3. Bolt each front mounting bracket to the frame as shown using the supplied 1/2" hardware. Ensure the mounting bracket lower surfaces are 0° to the horizontal with the vehicle in the typical road position and aligned with each other.
4. Torque the front 1/2" fasteners to 100 ft-lbs dry. Torque the rear 1/2" fasteners to 50 ft-lbs dry. Do not over torque.
5. The supplied railgear mounting shims are to be used as required when mounting the railgear to the front mounting plates.

Following the installation of the front railgear, the front bumper will fit in it's original position. The front bumper may need to be trimmed/modified as required.

6. Modify the OEM bumper as required to create clearance for all railgear components to eliminate any interference during its full range of motion.

ITEM	PART No.	DESCRIPTION OF ITEM(PART)	QTY.	REF.
1		VEHICLE FRAME		
2	R-20260D	MOUNTING BRACKET, DRIVERS SIDE	1	
3	R-20260P	MOUNTING BRACKET, PASSENGERS SIDE	1	
4	H.H.C.S.	1/2" UNC GR.8 x 4.00" Lq.	6	
5	F.WASHER	1/2" TYP-A GR.8	2	
6	F.WASHER	1/2" TYP-A GR.8	10	
7	NYLOCK NUT	1/2" UNC GR.8	6	

REV	DESCRIPTION OF CHANGES	DATE	BY	APPRVD	ECN #
A	REVISION A RELEASED	07/29/10	AML	JMP	
B	UPDATED BORDER	06/08/22	SMM	JMP	

ALL WELDS TO CONFORM TO AWS D1.1

NOTES:  
 PASSENGERS SIDE SHOWN  
 DRIVERS SIDE TYPICAL

<b>AML</b>	<b>DRWN</b>	<b>CHECKED</b>	<b>APPROVED</b>	<b>SHEET/DRAWING NUMBER</b>	<b>PART NUMBER</b>
				1 K-R18FM20100	07/29/10 K-R18FM20100
				<b>REVISION</b>	B

<b>G &amp; B SPECIALTIES INC.</b>	<b>MANUFACTURER OF QUALITY RAILROAD PRODUCTS.</b>	<b>DESIGN - ENGINEERING - MANUFACTURING</b>	<b>2005-2012 COLORADO</b>	<b>CONYON PL 2300 FANT</b>	<b>MNTG BRKT INST-ALL</b>
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## OPERATION AND SERVICE OF R-230 FRONT MOUNTING KIT 2005-2012 GMC CANYON/ CHEVROLET COLORADO

### 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 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 Front (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 Front (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 62 miles (100 km) of road and/or rail use	Daily	Weekly	Monthly
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
3/4" UNC Gr. 8 Fasteners	175
5/8" UNC Gr. 8 Fasteners	150
1/2" UNC Gr. 8 Fasteners	100
7/16" UNC Gr. 8 Fasteners	65
3/8" UNC Gr. 8 Fasteners	40
1/4" UNC Gr. 8 Fasteners	12