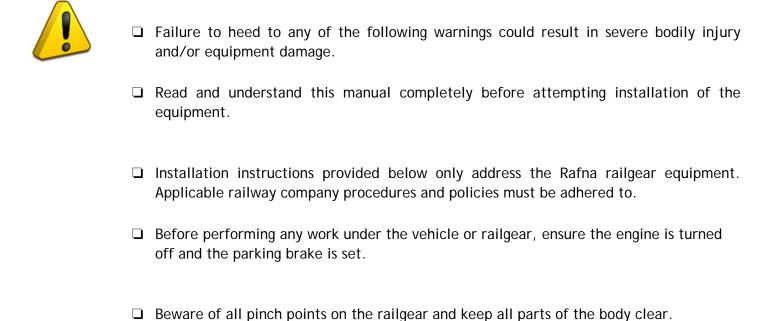


Installation, Operations & Service Manual R-1100/1130 Cobra Rear Brake Kit

For use on Standard to Broad Gauge Axles

Installation Safety Precautions

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



to protect the vehicle's electrical system.

☐ Always disconnect the vehicle's battery when welding on the vehicle or railgear in order



Kit Components

K-R113BXV003 AIR BRAKE KIT, REAR (R1130)(R1100)		
Part #	Description	Qty
R-11076A	Operating Valve Assembly	1
R-19036	Air Brake Hose	2
R-19032	3/8 Male Connector, Flare	2
R-33060	Brake Assembly	2
R-33066R	Rail Sweep Assembly, RHS	1
R-33066L	Rail Sweep Assembly, LHS	1
R-32052C	MTG BLOCK	2
R-990KIT-126	Hex Cap Screw, 1/2" UNC GR.8 x 1-1/2"	8
	Lock Washer, 1/2" GR.8	8
	Hex Cap Screw, 3/8" UNC GR.8 x 1-1/4"	4
	Flat Washer, 3/8" SAE GR.8	8
	Nylock Nut, 3/8" UNC GR.8	4

1.0 General Information

An Air Toggle Valve will need to be installed in the instrument panel of the vehicle. This valve disconnects the railgear brake system when not in use.

On the Front Valve plate assembly and rear frame bracket, a relay valve will be located. The control line feeding this relay valve comes from the control valve described above. The supply line to this relay valve comes from the check valve screwed into the air reservoir. There is a ball valve and a pressure regulator inline between the check valve and relay valve. The ball valve will disconnect the railgear brake system from the vehicle air system regardless of the position of the air toggle valve. The pressure regulator will allow adjustment of the front to rear bias, so that both axles will brake evenly and not allow one axle to lock and slide.

The railgear Cobra Brake Assembly brake chambers are connected to the delivery ports on the railgear air relay valve.

Install airlines and valves as shown in Air Brake Schematic. Make certain that the front air brake pressure regulator is set to 75 PSI.

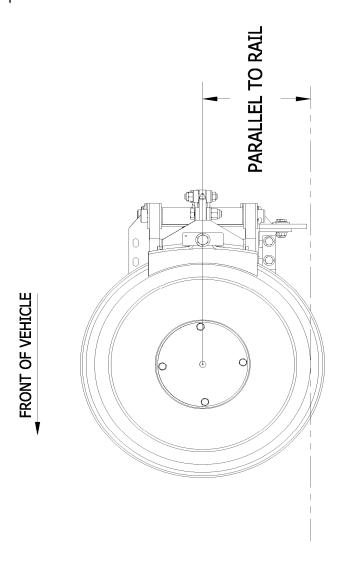
It is the responsibility of the installer to supply the required air to the in-cab control valve and from the in-cab control valve to the relay valve. The hoses, fittings etc... required for this connection are not included in this kit.



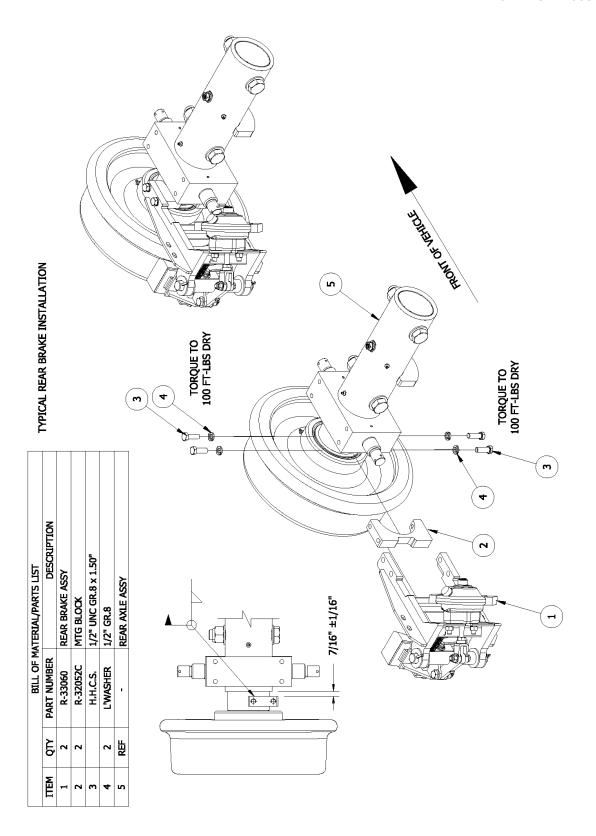
2.0 Installation

Note: The brakes should not be installed until the rear railgear unit has been installed.

- 1. Clean and prep the axle stubs, in the area indicated, for welding.
- 2. Place brake assembly on stub axle and adjust as shown. Tack weld mounting block to stub axle.
- 3. Remove brake assembly from mounting block. Weld complete, the mounting block to the stub axle
- 4. Re assemble brake housing to mounting block.
- 5. Install railsweeps.
- 6. Repeat steps 1 thru 5 for other brake assembly.
- 7. Proceed to plumb brakes.
- 8. Adjust and test brakes as outlined.
- 9. Adjust railsweeps as required.

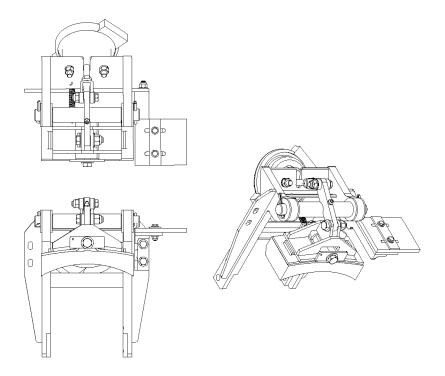




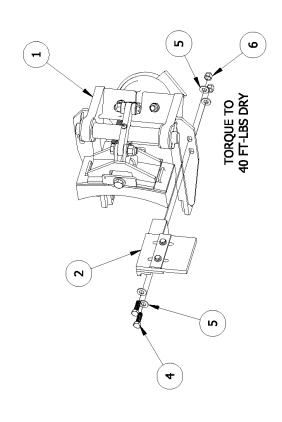


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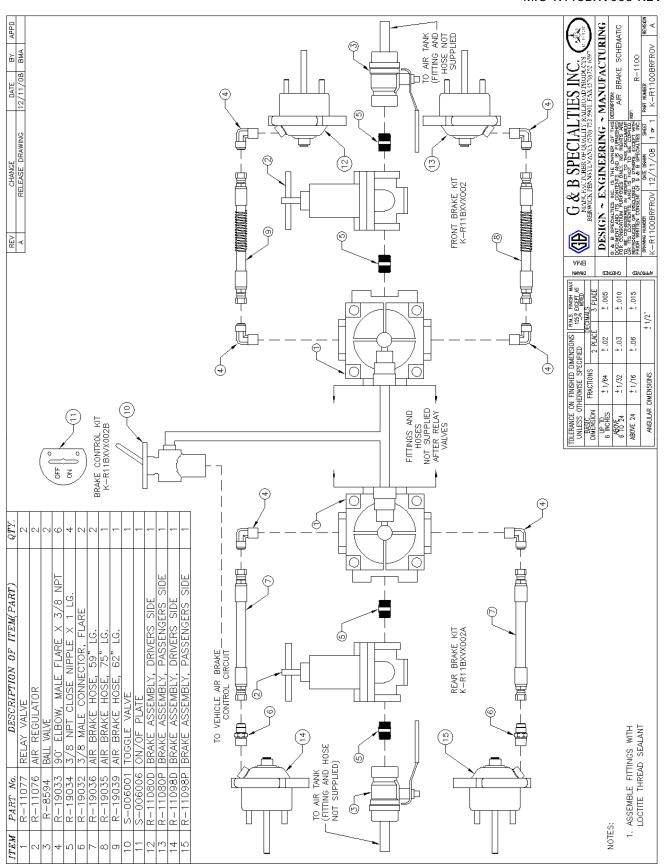










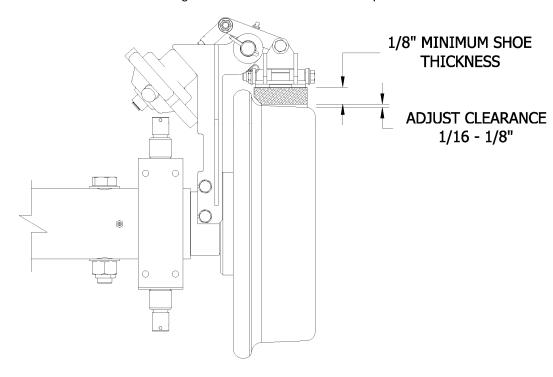




3.0

Brake Shoe Adjustment

- 1. There is a jam nut and clevis located on the threaded rod attached to the air brake chamber. This is use to adjust the gap between the wheel and brake shoe.
- 2. If the threaded rod is too long it will need to be cut as required.



3.1.1

Brake Testing

Operate the vehicle on a test track. With the air toggle valve in the "on" position and the ball valves open, check that:

- 1. When the vehicle brake pedal is depressed, the railgear brake clamps the rail wheel enough to slow its rotation but not enough to stop its rotation. The rail wheels should not be allowed to lock up.
- 2. That the brakes release properly when the pedal is released.

If the brakes do not function properly, contact a service representative at G&B Specialties.



4.0 Parts

