



## R-290 RAILGEAR - PRE-DELIVERY CHECK LIST

This checklist is provided to help ensure that the railgear is properly installed and adjusted prior to the vehicle being put in service. **In order to register this railgear installation, please fax a completed copy of both this form and the railgear alignment sheet to G&B Specialties, Inc. Service Manager at 570-802-0491.**

Railgear Model:	_____	Vehicle Year:	_____
Railgear Serial No.:	_____	Vehicle Make:	_____
	Frnt	Vehicle Model:	_____
	Rr	Vehicle VIN/Unit #:	_____
Date Received:	_____	End User:	_____
Date Completed:	_____		

### Railgear Checks

1. \_\_\_\_\_ Rail wheel bearing end play adjusted (see manuals for procedure)
2. \_\_\_\_\_ Front & rear railgear over-center adjusted (see manuals for procedure)
3. \_\_\_\_\_ Rail sweeps adjusted (see manuals for procedure)
4. \_\_\_\_\_ Rail wheel load adjusted (see manuals & fill out values on alignment sheet)
5. \_\_\_\_\_ Rail wheel alignment performed (attach copy of alignment sheet)
6. \_\_\_\_\_ Front & rear railgear lock systems engage/disengage smoothly
7. \_\_\_\_\_ Lock cam converters installed on In-Cab Controls models only
8. \_\_\_\_\_ Safety lock pins installed on Full-In-Cab Controls models only
9. \_\_\_\_\_ Railgear components clear all vehicle component thru full range of motion
10. \_\_\_\_\_ Railgear operating decals installed next to controls
11. \_\_\_\_\_ Railgear pump decal installed next to dash switch (standard control models)
12. \_\_\_\_\_ Railgear manifold decals installed on manual over-rides
13. \_\_\_\_\_ Steering wheel lock decal installed on dash
14. \_\_\_\_\_ Steering wheel lock installed
15. \_\_\_\_\_ All railgear joints lubricated (see manuals for lubrication points)

### Wheel Kit Checks

16. \_\_\_\_\_ Vehicle turning stop blocks installed
17. \_\_\_\_\_ Wheel and spacer lug nuts tightened (see manuals for specifications)
18. \_\_\_\_\_ Wheel lug nut torque value decals installed on wheels
19. \_\_\_\_\_ Wheels & tires clear all vehicle components thru full range of motion

### Hydraulic Checks

20. \_\_\_\_\_ Flow limiters installed on hydraulic cylinders (railgear moves smoothly)
21. \_\_\_\_\_ Hydraulic lock valves installed with correct orientation (ICC & FCC only)
22. \_\_\_\_\_ Air bled from railgear hydraulic system



- 23. \_\_\_\_\_ Pump tank filled as required with hydraulic fluid
- 24. \_\_\_\_\_ Railgear pump relief valve adjusted (see manuals for procedure)
- 25. \_\_\_\_\_ All hydraulic hoses clear of hot / sharp edges and tied back
- 26. \_\_\_\_\_ No hydraulic oil leaks – at pump, manifold, hoses, fittings, and cylinders

**Electrical Checks**

- 27. \_\_\_\_\_ Pump and manifold ground wire installed
- 28. \_\_\_\_\_ All connections soldered and heat shrink sealed (no crimps)
- 29. \_\_\_\_\_ Split loom used to protect all exposed wiring
- 30. \_\_\_\_\_ All wires clear of hot / sharp edges and tied back

**Miscellaneous Checks**

- 31. \_\_\_\_\_ All welded / heated / bare metal painted
- 32. \_\_\_\_\_ Exterior railgear controls operate railgear correctly
- 33. \_\_\_\_\_ In-Cab controls operate railgear correctly (ICC and FCC only)
- 34. \_\_\_\_\_ Emergency hand pump and manifold over-rides operate railgear correctly
- 35. \_\_\_\_\_ All fasteners are tightened (see manuals for specifications)
- 36. \_\_\_\_\_ Vehicle track tested
- 37. \_\_\_\_\_ Vehicle road tested at highway speeds
- 38. \_\_\_\_\_ All railgear manuals are placed in the vehicle for the operator

Installed By: \_\_\_\_\_

Inspected By: \_\_\_\_\_

Company: \_\_\_\_\_

Company: \_\_\_\_\_

Comments:



**RAFNA RAILGEAR ALIGNMENT RACK DATA**

GAS OR DIESEL \_\_\_\_\_ VIN# \_\_\_\_\_

VEHICLE MAKE: \_\_\_\_\_ VEHICLE MODEL: \_\_\_\_\_ VEHICLE YEAR: \_\_\_\_\_  
 DOOR STICKER GVWR: \_\_\_\_\_ DOOR STICKER GAWR FRT: \_\_\_\_\_ DOOR STICKER GAWR RR \_\_\_\_\_  
 RAILGEAR S/N: FRT \_\_\_\_\_ RR \_\_\_\_\_ VEHICLE UNIT #,S/N: \_\_\_\_\_  
 RAILGEAR TYPE: \_\_\_\_\_ INSTALLER: \_\_\_\_\_ DATE: \_\_\_\_\_

SET UP PARALLEL STRING LINES  
 A & B MUST BE EQUAL WITHIN 1/32"  
 C & D MUST BE EQUAL WITHIN 1/32"

ADJUST STRING LINES AROUND VEHICLE  
 E, F, G, & H MUST BE EQUAL WITHIN 1/16"  
 I, J, K, & L MUST BE EQUAL WITHIN 1/16"  
 (E, F, G, & H MAY NOT EQUAL I, J, K, & L)

ADJUST RAIL WHEEL ALIGNMENT  
 M & O MUST BE EQUAL WITHIN 1/16"  
 N & P MUST BE EQUAL WITHIN 1/16"  
 Q & S MUST BE EQUAL WITHIN 1/16"  
 R & T MUST BE EQUAL WITHIN 1/16"

ADJUST RAILGEAR LATERAL ALIGNMENT  
 M & O MUST EQUAL N & P WITHIN 1/8"  
 Q & S MUST EQUAL R & T WITHIN 1/8"

ENSURE THAT U & V ARE BETWEEN  
 53- 7/16" AND 53-9/16"

OVER-CENTER ANGLE (DEGREE)  
 FRONT \_\_\_\_\_  
 REAR \_\_\_\_\_

TREAD TO TREAD, (NOT SIDEWALL)  
 OEM FRONT: \_\_\_\_\_  
 OEM REAR: \_\_\_\_\_  
 MODIFIED FRONT: \_\_\_\_\_  
 MODIFIED REAR: \_\_\_\_\_

RAIL WHEEL LOADS (LBS)  
 LEFT FRONT \_\_\_\_\_ RIGHT FRONT \_\_\_\_\_  
 LEFT REAR \_\_\_\_\_ RIGHT REAR \_\_\_\_\_

RAIL WHEEL FLANGE TO GROUND CLEARANCE  
 LEFT FRONT \_\_\_\_\_ RIGHT FRONT \_\_\_\_\_  
 LEFT REAR \_\_\_\_\_ RIGHT REAR \_\_\_\_\_

TIRE MFG \_\_\_\_\_  
 TIRE SIZE \_\_\_\_\_

MOUNTING HEIGHT FRONT: \_\_\_\_\_ MOUNTING HEIGHT REAR: \_\_\_\_\_  
 STOCK TURNING DIAMETER: \_\_\_\_\_ MODIFIED TURNING DIAMETER: \_\_\_\_\_  
 OEM: VEHICLE WEIGHT: \_\_\_\_\_ FRONT GAWR: \_\_\_\_\_ REAR GAWR: \_\_\_\_\_  
 MODIFIED: VEHICLE WEIGHT: \_\_\_\_\_ FRONT GAWR: \_\_\_\_\_ REAR GAWR: \_\_\_\_\_

