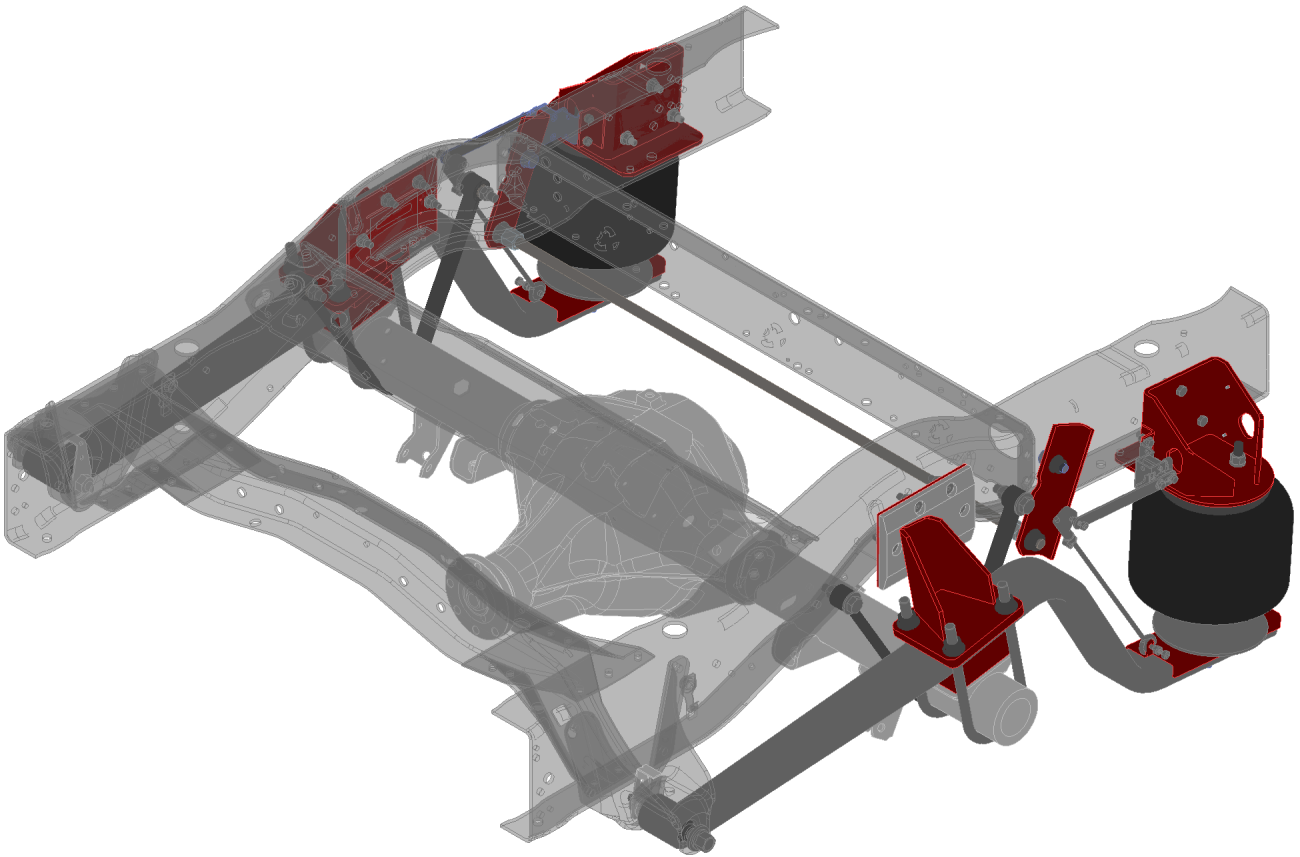




## Medium-Duty Truck Suspensions Owner's Manual

### RD800F | Ford CW E-350 Cutaway Chassis



Reyco Granning Suspensions  
1205 Industrial Park Drive  
Mount Vernon, MO 65712  
Phone: 417-466-2178  
Fax: 417-466-3964  
[www.reycogranning.com](http://www.reycogranning.com)

Document #: D713139  
Revision: B  
Revision Date: 09/2024

Page Left Blank Intentionally

# TABLE OF CONTENTS

---

|   |    |
|---|----|
| Revision History .....                      | 2  |
| Introduction .....                          | 3  |
| Suspension Description .....                | 3  |
| Air Control System .....                    | 3  |
| About This Manual .....                     | 4  |
| General Information .....                   | 5  |
| Range of motion and capacity .....          | 5  |
| Identification .....                        | 6  |
| Parts List .....                            | 7  |
| Bill of Materials .....                     | 7  |
| Main Exploded View .....                    | 8  |
| Detailed Exploded Views .....               | 9  |
| Inspection & Maintenance .....              | 11 |
| Torque Specifications .....                 | 12 |
| Torque View Illustration .....              | 14 |
| Maintenance Schedule .....                  | 15 |
| Maintenance Record .....                    | 16 |
| Troubleshooting .....                       | 17 |
| Replacement Instructions and Warranty ..... | 19 |

| REV | ECR # | DATE     | CHANGE DESCRIPTION                        | BY  | CHK | APV |
|-----|-------|----------|---|-----|-----|-----|
| OR  | 17680 | 08/28/14 | CREATED MANUAL                            | CRG | --- | --- |
| A   | 18363 | 08/18/16 | UPDATED VIEWS FOR 9860 CHANGES            | LLG | --- | --- |
| B   | 23011 | 09/10/24 | UPDATED REMOVED HCV, UPDATED VIEW AND BOM | STM | RSC | JAH |

# INTRODUCTION

---

## Suspension Description

A ReycoGranning® drive axle air suspension system is a replacement rear suspensions system that consists of an air control system, air springs, trailing arm beams, brackets, and mounting hardware. In general, the air suspension works by maintaining a constant ride height by adjusting the amount air pressure in the air springs. This allows the vehicle to remain level, regardless of loading. By varying the amount of air pressure in the springs, a comfortable ride is maintained whether lightly or heavily loaded. This is the major difference between an air suspension and a conventional steel spring suspension. The steel spring suspension is usually designed for heavily loaded condition and thus yields a harsh ride in lightly loaded conditions. In addition, the steel spring suspension does not maintain a constant ride height under varying load conditions.

By maintaining a constant ride height, the horizontal center of gravity, steering geometry, and even the headlights remain level. The benefits of an air ride are:

1. Driver/passenger comfort,
2. Protection of cargo, chassis and body components,
3. Reduced stress fatigue to chassis frame rails.
4. Greater stability and control.

A unique feature to the ReycoGranning® drive axle air suspension system is the wear towers and wear blocks. These time proven components prevent unwanted side to side lateral motion without the use of costly and complex track rods.

## Air Control System

***A primary subsystem of a ReycoGranning® drive axle air suspension system is the Air Control System. For information on how the Air Control System works, and service information for the Air Control System, refer to the manual for your specific Air Control System.***

# INTRODUCTION

---

## About This Manual

This publication is intended to acquaint and assist maintenance personnel in the maintenance, service, repair and rebuild of the **Reyco Granning**® RD800F Rear Suspension. It is important to read and understand the entire Technical Procedure publication prior to performing any maintenance, service, repair, or rebuild of this product

**Reyco Granning**® Air Suspensions reserves the right to modify the suspension and/or procedures and to change specifications at any time without notice and without incurring obligation. Contact customer service at **800-753-0050** for information on the latest version of this manual.

You must follow your company safety procedures when you service or repair the suspension. Be sure you read and understand all the procedures and instructions before you begin work on the suspension.

**Reyco Granning**® uses the following types of notes to give warning of possible safety problems and to give information that will prevent damage to equipment.



### WARNING

**A warning indicates procedures that must be followed exactly. Serious personal injury can occur if the procedure is not followed.**



### CAUTION

**A caution indicates procedures that must be followed exactly. Damage to equipment or suspension components and personal injury can occur if the procedure is not followed.**

### NOTE

**A note indicates an operation, procedure or instruction that is important for correct service.**

Some procedures require the use of special tools for safe and correct service. Failure to use these special tools when required can cause personal injury or damage to suspension components.

The latest revision of this publication is available online at <http://www.Reyco Granning.com/>  
**Reyco Granning**® Air Suspensions has developed this owner's manual to aid in the maintenance of **Reyco Granning**®'s rear suspensions.

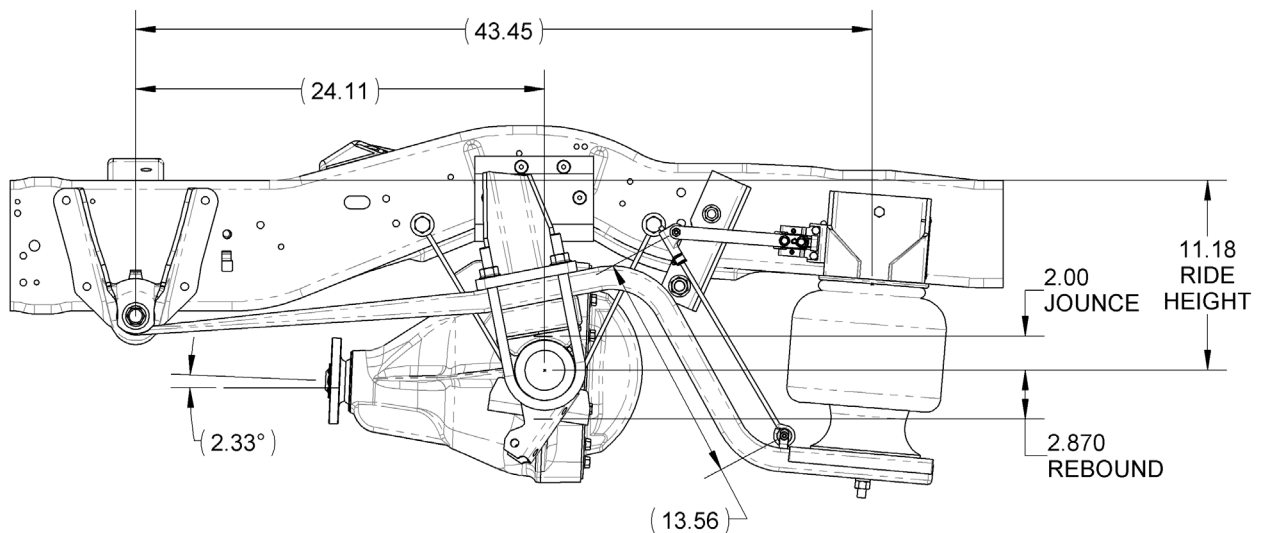
# GENERAL INFORMATION

## Range of Motion and Capacity

The following table lists the various models and their respective capacities.

| Model  | Capacity  | Axle Capacity |
|--------|-----------|---------------|
| RD800F | 8,000 lbs | 8,000 lbs     |

Overloading the suspension may result in adverse ride and handling characteristics.



**Figure 1: Suspension range of motion**

Note: The ride height is for the completed vehicle with body and components. See table below for correct vehicle dimensions.

| Chassis                      | Reyco Granning® Suspension Model | Ride Height * | Jounce Travel | Rebound Travel |
|------------------------------|----------------------------------|---------------|---------------|----------------|
| FORD E350 RV CUTAWAY CHASSIS | RD800F                           | 11.18"        | 2.00"         | 2.87"          |

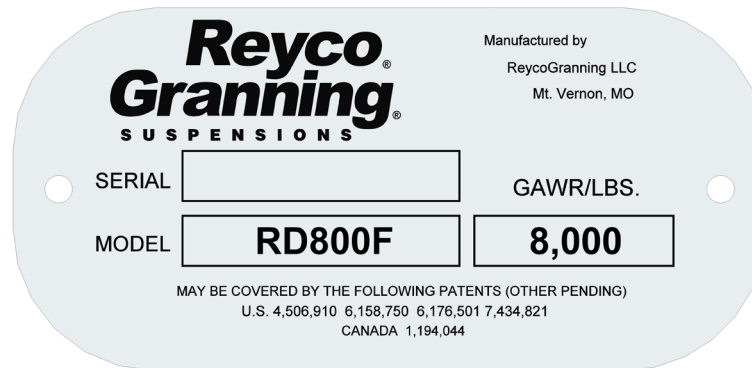
**\*Ride height is measured from the axle center (flat and level) to the top of the original vehicle frame behind the axle where the frame flattens (just behind the air spring) as shown.**

# GENERAL INFORMATION

---

## Identification

The suspension model and serial number are stamped on an aluminum tag that is riveted to the driver side Upper Air Spring Pad Assembly (See View “E”). The serial number is used by **Reyco Granning**® for control purposes and should be referred to when servicing the suspension (See Figure 2).



**Figure 2: Suspension Identification**

# PARTS LIST

## RD800F

| ITEM | QTY | PART#     | DESCRIPTION                    | ITEM   | QTY | PART#     | DESCRIPTION                   |
|------|-----|-----------|--------------------------------|--------|-----|-----------|-------------------------------|
| 1    | 1   | 700463-01 | BRAKE LINE SPACER              | 21     | 1   | 4653      | BOLT KIT, RD                  |
| 2    | 1   | 4357      | WEAR TOWER ASSY. L.H.          | 21.1   | 8   | 4356      | SFHCS 3/8-24 X 1 1/2 8 PH     |
| 3    | 4   | 4368      | SLEEVE, REBOUND STRAP (1.06)   | 21.2   | 6   | 114       | HHB 3/8-24 X 1-1/4 GR.8 ZN    |
| 4    | 8   | 4599      | LFN 5/8-18 G PH                | 21.3   | 4   | 112       | BOLT, 1/2-20x2.25 GR.8 ZN     |
| 5    | 1   | 4636      | WEAR TOWER ASSY. R.H.          | 21.4   | 4   | 110       | FW, 1/2 .562x1.375x.109 ZN    |
| 6    | 2   | 4637      | REBOUND STRAP 28.56L 1.00W     | 21.5   | 14  | 716674-01 | LFN 3/8-24 F ZN               |
| 7    | 1   | 4638      | WEAR PAD, LH                   | 21.6   | 4   | 8120378   | N 1/2-13 5 ZN                 |
| 8    | 1   | 4639      | WEAR PAD, RH                   | 21.7   | 4   | 8103323   | SLW 1/2 .523X.873X.135 PL     |
| 9    | 2   | 5258      | SPACER, U-BOLT                 | 21.8   | 4   | 89422302  | HLN 1/2-20 C ZN               |
| 10   | 2   | 5301      | AIR SPRING ASSEMBLY            | 21.9   | 2   | 8219758   | JN 3/4 - 16 5 ZN              |
| 11   | 2   | 5367      | MOUNT, AIR SPRING, LOWER       | 21.1   | 2   | 8131017   | FW 3/4 .812X1.469X.134 ZP     |
| 12   | 1   | 5369      | MOUNT, AIR SPRING, UPPER, LH   | 22     | 1   | 9860      | KIT, CROSSMEMBER              |
| 13   | 1   | 5370      | MOUNT, AIR SPRING, UPPER, RH   | 22.1   | 1   | 701727-01 | ROD, 5/8-18 X 44", TRI-8      |
| 14   | 4   | 5625      | U-BOLT 5/8-18 X 9.5"           | 22.2   | 1   | 8228      | BRACKET, X-MEMBER MNTNG, RH   |
| 15   | 2   | 5764      | BACKING PLATE (SHIM)           | 22.3   | 1   | K711154   | KIT, HARDWARE, X-MEMBER KIT   |
| 16   | 1   | 700464-01 | 5/16-18 X 2 SELF TAPPING SCREW | 22.3.1 | 2   | 288       | FN 5/8-18 GR.5, SERRATED, ZN  |
| 17   | 1   | 8120393   | FW 5/16 ZN                     | 22.3.2 | 2   | 308       | LFN 1/2-13, GR. G ZN          |
| *18  | 1   | 708580-01 | HEAT SHIELD, FLEXIBLE          | 22.3.3 | 2   | 309       | FHB 1/2-13 x 1 1/4 GR 8 ZN    |
| 19   | 2   | 5695      | SPRING BEAM ASSEMBLY           | 22.3.4 | 2   | 4599      | LFN 5/8-18 G PH               |
| 19.1 | 1   | 4654      | SPRING BEAM                    | 22.3.5 | 2   | 89429288  | HHN 5/8-18 GR ASTM A194-2H    |
| 19.2 | 1   | 6274      | BUSHING                        | 22.4   | 1   | D9860     | DRAWING, CROSSMEMBER KIT      |
| 19.3 | 1   | 3923      | A-PIN .620D X .375H            | 22.5   | 1   | 8227      | BRACKET, X-MEMBER MNTNG, LH   |
| *20  | 1   | 4457      | ASSY - TAILPIPE HANGER         | 23     | 2   | 5921      | LINKAGE, HC SENSOR            |
| 20.1 | 1   | 4401      | ASSY-TAILPIPE STRAP 4.81       | 24     | 1   | 711358-01 | INSTALLATION, SERIAL TAG      |
| 20.2 | 3   | 4402      | MUFFLER CLAMP 3 INCH           | 24.1   | 1   | 2617      | PLATE-SERIAL NO               |
| 1    | 1   | 700463-01 | BRAKE LINE SPACER              | 24.2   | 2   | 188       | POP RIVET .125 DIA X .525 L   |
| 2    | 1   | 4357      | WEAR TOWER ASSY. L.H.          | *26    | 1   | D5696     | KIT, DRAWING/DOCUMENT         |
| 3    | 4   | 4368      | SLEEVE, REBOUND STRAP (1.06)   | 26.1   | 1   | D5602     | SHEET, CAUTION, COMP FITTINGS |
| 4    | 8   | 4599      | LFN 5/8-18 G PH                | 26.2   | 1   | D9490     | DRAWING, INSTALL RD800F       |
|      |     |           |                                | 26.3   | 1   | D713097   | DOC, INSTALL INSTRUCTIONS     |
|      |     |           |                                | 26.4   | 1   | D713138   | DOC, INSTALL CHECKLIST        |
|      |     |           |                                | 26.5   | 1   | D713139   | DOC, OWNERS MANUAL RD800F     |
|      |     |           |                                | 26.6   | 1   | D702124   | DRAWING, DRILL TEMPLATE       |

\*Not Shown/Called Out



# PARTS LIST

## Main Exploded View

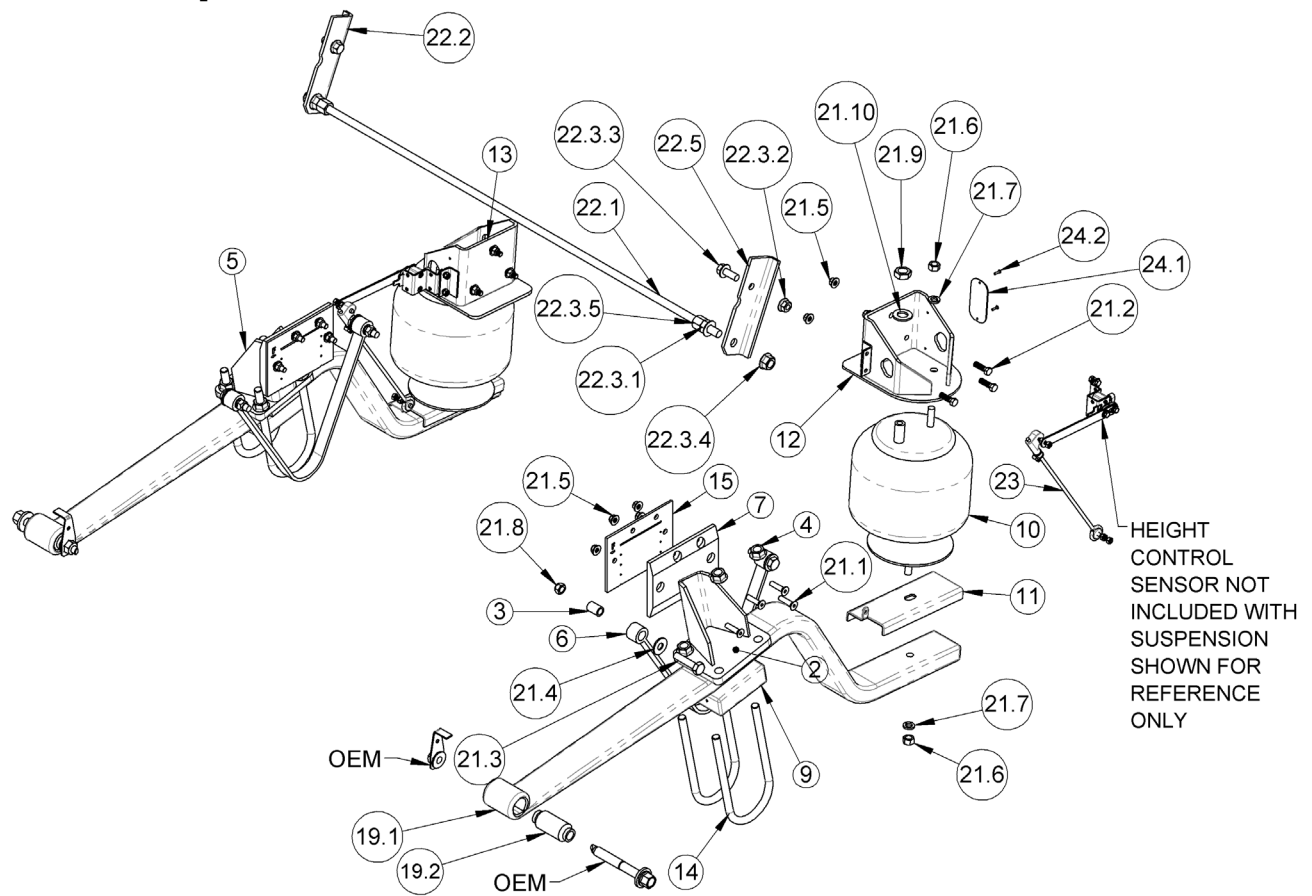
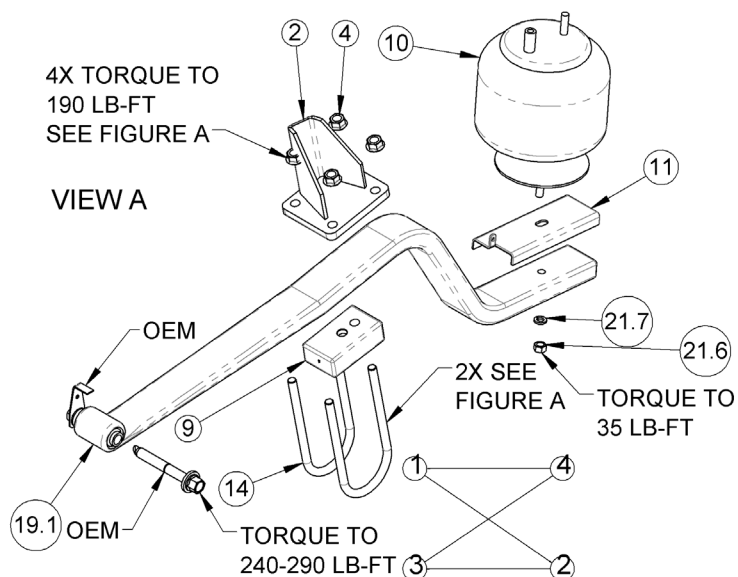


Figure 3: Main exploded view

# PARTS LIST

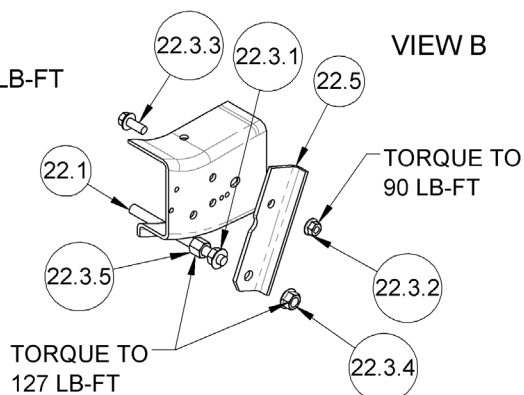
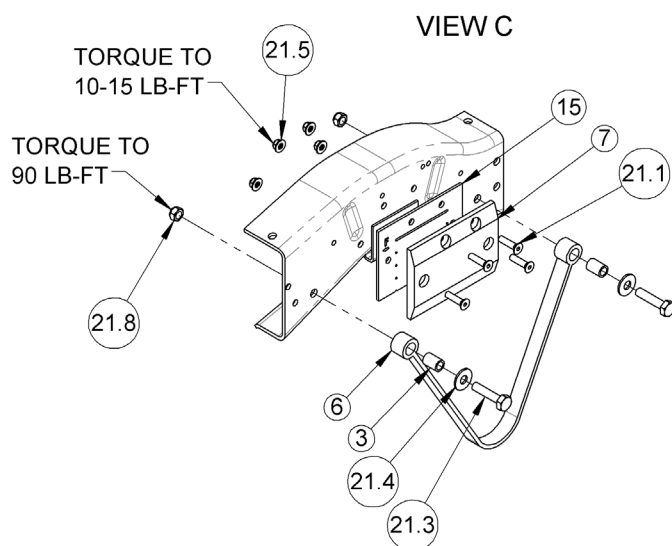
## Detailed Exploded Views



### FIGURE "A" TIGHTENING U-BOLT NUTS

STEP TORQUE TO 50 LB-FT  
100 LB-FT  
150 LB-FT  
170-190 LB-FT

RD800 FINAL TORQUE: 170-190 LB-FT



### NOTES:

1. 701727-01 ROD TO BE LOCATED JUST UNDER FRAME, IN FRONT OF FUEL TANK.
2. ADJUST 288 NUTS TO MATCH FRAME WIDTH,
3. THEN USE 89429288 NUTS TO LOCK INTO POSITION.
4. 308 NUTS SHOULD BE TIGHTENED PRIOR TO TIGHTENING 4599 NUTS.
5. ALL TORQUES  $\pm 10\%$  UNLESS OTHERWISE SPECIFIED.

Figure 4: Detailed exploded views "A", "B", & "C"

# PARTS LIST

## Detailed Exploded Views

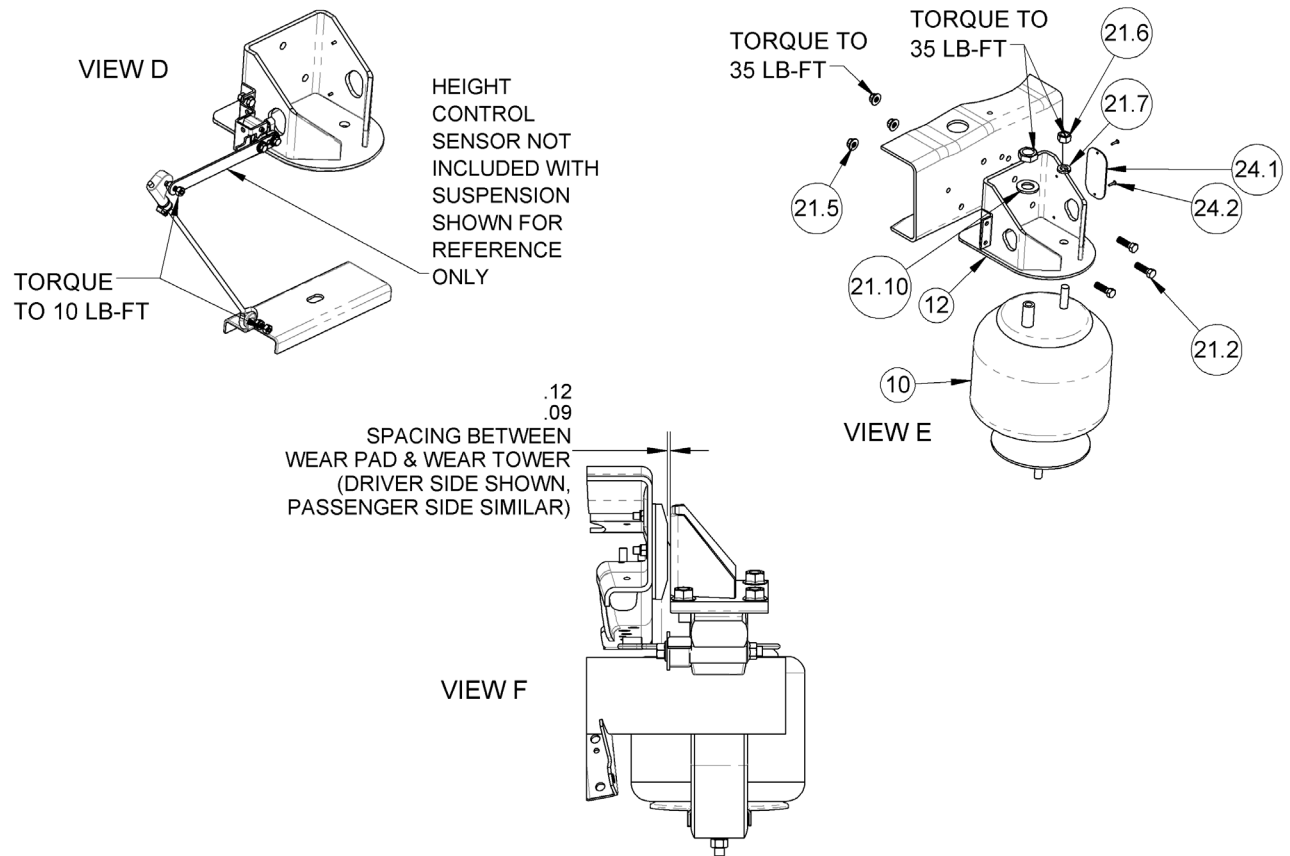


Figure5: Detailed exploded views "D", "E", & "F"

## INSPECTION & MAINTENANCE

---

Perform a thorough visual inspection of the suspension to ensure proper assembly and to identify broken parts and loose fasteners each time the vehicle suspension is serviced. Do the following during an inspection.

- **Fasteners** - Using a calibrated torque wrench check that all the fasteners are tightened to the proper torque.
- **Wear and Damage** - Inspect components of the suspension for wear and damage. Look for bent or broken components. Replace all worn or damaged components.
- **Operation** - Check that all components move freely through the complete turning arc.



**CAUTION: Reyco Granning® recommends replacing any damaged or out-of-specification components. Reconditioning or field repairs of major rear suspension components is not allowed.**

Note: Refer to Section 1 for identification of components.

**NOTE: Reyco Granning® recommends the use of a maintenance pit or full vehicle lift during the inspection of components.**

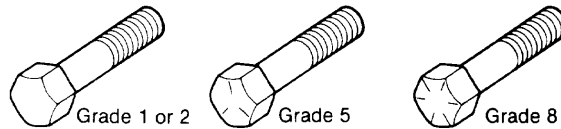


**WARNING: Never work under a vehicle supported by only a jack. Jacks can slip or fall over and cause serious personal injury. Always use safety stands.**



# INSPECTION & MAINTENANCE

## Torque Specifications

Most threaded fasteners are covered by specifications that define required mechanical properties, such as tensile strength, yield strength, proof load, and hardness. These specifications are carefully considered in initial selection of fasteners for a given application. To assure continued satisfactory vehicle performance, replacement fasteners used should be of the correct strength, as well as the correct nominal diameter, thread pitch, length, and finish.



**Figure 6: Grade Markings on Bolts**

| Grade          | Lock Nut<br>Grade B, F  | Lock Nut:<br>Grade C, G  |
|----------------|---|--|
| Identification | <br>3 Dots | <br>6 Dots |

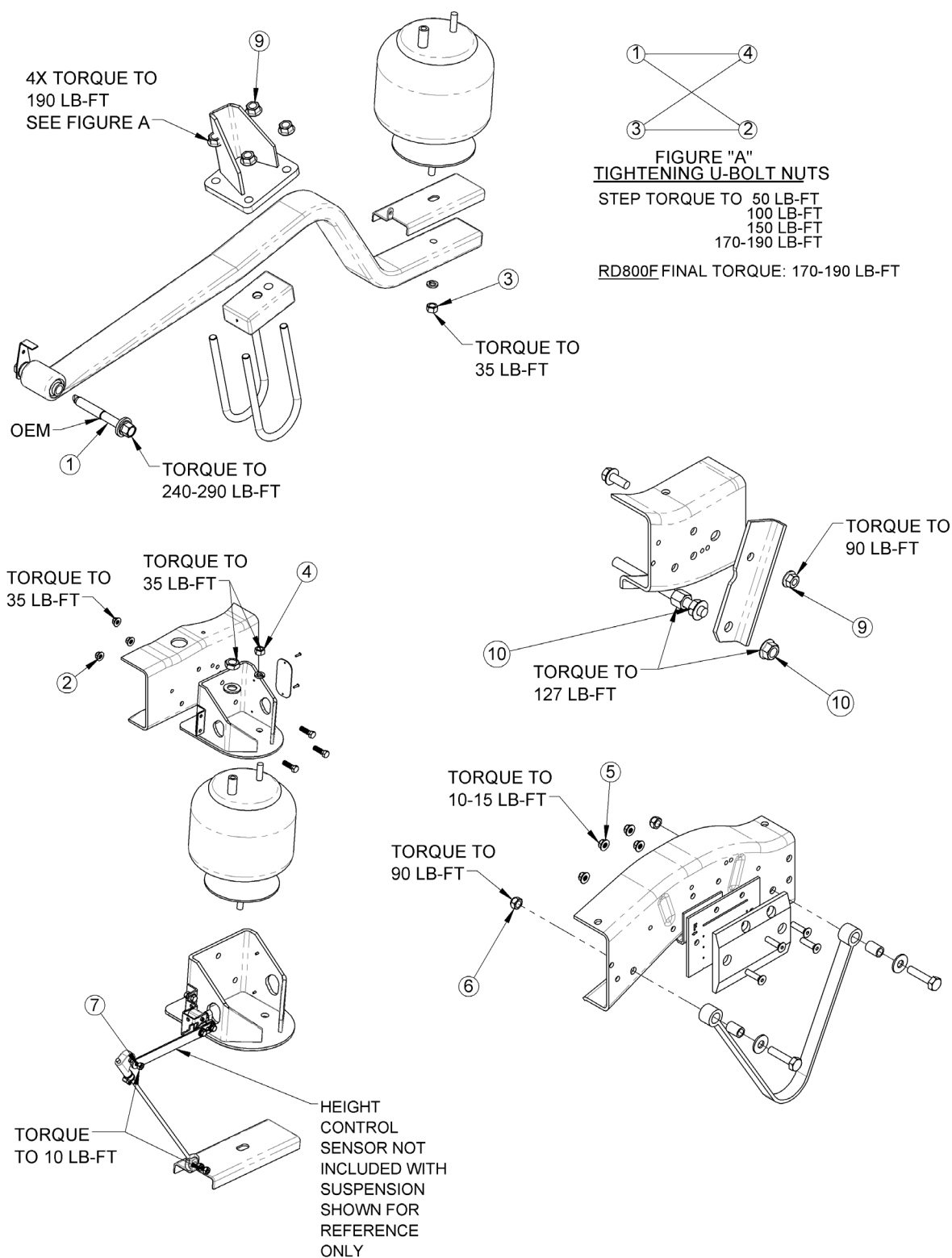
**Figure 7: Grade Markings on Lock Nuts**

# INSPECTION & MAINTENANCE

| Reyco Granning Recommended Torque Specifications  |  |   |                |
|---|--|---|----------------|
| Item  | Assembly                                 | Fastener  | Torque         |
| 1   | Spring Beam Pivot Connection             | OEM   | 240-290 ft-lbs |
| 2   | Upper Air Spring Pad (to Frame)          | HHB 3/8-24 x 1.25, Gr. 8 (LN 3/8-24, Gr. 8)     | 35 ft-lbs      |
| 3   | Air Spring (to Spring Beam)              | (HN 1/2-13, Gr. 5)                              | 35 ft-lbs      |
| 4   | Stud Nut/Air Port Nut (Air Spring)       | (N 1/2-13, Gr. 5 ZP/JN 3/4-16, Gr. 5 ZP)        | 35 ft-lbs      |
| 5   | Wear Pad (to Backing Plate)              | FHS 3/8-24 x 1.5, Gr. 8 (LN 3/8-24, Gr. 8)      | 10-15 ft-lbs   |
| 6   | Rebound Strap (to Frame)                 | HHB 1/2-20 x 2.25, Gr. 8 (LN 1/2-20, Gr. 8)     | 90 ft-lbs      |
| 7   | HCV Linkage (to HCV & Lower HCV Bracket) | (LN 1/4-20, Gr. 5)                              | 9 ft-lbs       |
| 8   | U-Bolt Nuts (See Figure A)               | U-BOLT 5/8-18 x 9.50 (LN 5/8-18)                | 170-190 ft-lbs |
| 9   | Crossmember Plate Mount (to Frame)       | FHB 1/2-13 x 1.25, Gr. 8 ZP (LFN 1/2-13, Gr. G) | 90 ft-lbs      |
| 10  | Crossmember Rod (to Plate Mount)         | (LFN 5/8-18, Gr. G PH)                          | 127 ft-lbs     |
| *11   | *Wheels (See Vehicle Owners)             | *See Vehicle Owners Manual                      | **             |
| <p>* Not Shown</p> <p>**Follow procedures and torques listed in Vehicle Maintenance/Owner's Manual</p> <p>Note: Torque values listed above apply only if Reyco Granning supplied fasteners are used. For information regarding component replacement or technical service call 1-800-753-1060</p> |  |   |                |

See Figure 8 for Illustrated Torque Callouts

# INSPECTION & MAINTENANCE



**Figure 8: Illustrated torque callouts**

# INSPECTION & MAINTENANCE

## Maintenance Schedule

| GENERAL MAINTENANCE                   | SERVICE TO BE PERFORMED   | MILEAGE IN THOUSANDS |    |    |    |    |    |    |                |
|---------------------------------------|---|----------------------|----|----|----|----|----|----|----------------|
|                                       |   | 12                   | 24 | 36 | 48 | 60 | 72 | 84 | 96             |
| Spring Beam Pivot Connection          | Check bolt torque.  | X                    |    |    | X  |    |    |    | X <sup>1</sup> |
|                                       | Inspect for contact between Spring Beam and Hanger.   | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |
|                                       | Inspect for bushing wear.   | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |
| Air Springs                           | Inspect for proper clearance (1" minimum all around).                                       | X                    |    |    |    |    |    |    |                |
|                                       | Check upper mount nut and lower mount bolt torque.  | X                    |    |    |    |    |    |    |                |
|                                       | Inspect for signs of chafing or wear.   | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |
|                                       | Check for air line fitting torque.  | X                    |    |    |    |    |    |    |                |
|                                       | Inspect for air leaks using soapy water solution.   | X                    |    |    |    |    |    |    |                |
| Height Control Valve Linkage          | Inspect for signs of bending, binding, or slippage.   | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |
| Air Fittings and Air Lines            | Inspect for air leaks using soapy water solution  | X                    |    |    |    |    |    |    |                |
|                                       | Inspect for signs of chafing, cracking, or wear   | X                    | X  | X  | X  | X  | X  | X  | X              |
| Shock Absorbers                       | Check stud mount and lock nut torque.   | X                    |    |    |    |    |    |    |                |
|                                       | Inspect shocks for signs of fluid leak, broken eye ends, loose fasteners, or worn bushings. | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |
| Axle Connection/ U-Bolts <sup>4</sup> | Check "U"-bolt nut torque <sup>4</sup> and gap between wear pad and wear tower.             | X                    | X  | X  | X  | X  | X  | X  | X              |
| Wheels <sup>2</sup>                   | Check lug nut torque <sup>3</sup>   | X                    | X  | X  | X  | X  | X  | X  | X              |
| Air Compressor                        | Check air compressor compartment or enclosure for proper airflow and venting.               | X                    | X  | X  | X  | X  | X  | X  | X              |
| Rear Alignment                        | Inspect (after first 1000-3000 miles)   |                      | X  |    | X  |    | X  |    | X <sup>1</sup> |
| Air Fittings and Air Lines            | Inspect for air leaks using soapy water solution.   | X                    |    |    |    |    |    |    |                |
|                                       | Inspect for signs of chafing, cracking, or wear.  | X                    | X  | X  | X  | X  | X  | X  | X <sup>1</sup> |

<sup>1</sup> Continue to perform specified maintenance every 12,000 miles.

<sup>2</sup> See your vehicle's owner's manual for instructions regarding the maintenance of wheels and tires.

<sup>3</sup> Wheel lug nuts must be retightened to proper torque specifications as per the vehicle or chassis manufacturer's Owner Guide.

<sup>4</sup> **U-bolts** require an initial **re-torque at 1000 miles**, then follow regular maintenance schedule in the chart above.





# TROUBLE SHOOTING

| SYMPTOMS  | POSSIBLE CAUSES  | REMEDIES   |
|---|--|--|
| Tires wear out quickly or have uneven tire tread wear.<br>Note: Wear pattern will indicate possible cause(s). Consult tire manufacturer for guidance. | 1) Tires have incorrect pressure.<br>2) Tires out of balance.<br>3) Incorrect ride height.<br>4) Incorrect rear axle alignment.<br>5) Improper (mismatched) tires and wheels.  | 1) Put specified air pressure in tires.<br>2) Balance or replace tires.<br>3) Adjust ride height to specified setting.<br>4) Align rear axle to specified thrust angle.<br>5) Install correct tire and wheel combination.  |
| Vehicle rolls side to side excessively.   | 1) Shock absorbers worn.<br>2) Shock eye bushings worn.<br>3) Axle U-bolts are loose<br>4) Loose or worn Spring Beam Pivot connection(s).<br>5) Loose or worn Spring Beam Pivot bushing(s).<br>6) Check for air leak including the height control valve.   | 1) Replace shock absorbers as needed.<br>2) Check and replace as needed..<br>3) Tighten (see previous torque chart) or replace as required<br>4) Tighten (see previous torque chart) or replace as required<br>5) Replace as required<br>6) Check height control valve and replace as required.  |
| Vehicle ride is too harsh and/or suspension contacts stops excessively.   | 1) Shock absorbers worn.<br>2) Incorrect ride height.<br>3) Vehicle overloaded.<br>4) Air spring supply lines leaking or obstructed.<br>5) Vehicle system air pressure below specification.<br>6) Jounce bumper in air spring worn or broken.<br>7) Air Suspension not turned on.<br>8) Defective Height Control Valve(s)<br>9) Height Control Linkage disconnected or damaged | 1) Replace shock absorbers as needed.<br>2) Adjust ride height to specified setting.<br>3) Check wheel loads and correct as needed.<br>4) Check air line connections and remove obstructions.<br>5) Check air pressure and correct as needed.<br>6) Check and replace air spring as required.<br>7) Turn on air suspension.<br>8) Replace height control valve as required.<br>9) Reattach or replace as required. |
| Vehicle ride is too soft.   | 1) Shock absorbers worn.<br>2) Incorrect ride height.  | 1) Replace shock absorbers as needed.<br>2) Adjust ride height to specified setting.   |

# TROUBLE SHOOTING

| SYMPTOMS                                  | POSSIBLE CAUSES  | REMEDIES  |
|---|--|---|
| Suspension does not maintain ride height. | 1) Air leak.<br>2) Internal leak in height control valve.<br>3) Height control valve linkage loose.<br>4) Air spring chafed or worn.   | 1) Check connections with soapy water solution and repair or replace as needed.<br>2) Check height control valve and replace as required.<br>3) Check and tighten linkage as needed.<br>4) Check air spring and replace as needed.  |
| Air compressor runs excessively           | 1) Air leak.<br>2) Internal air leak in height control valve.<br>3) Moisture ejector valve stuck open.<br>4) Check valve installed incorrectly.<br>5) Dump valve(s), or "kneeler(s)", leaking.<br>6) Height Control Valve stuck in the exhaust position. | 1) Inspect all air lines, fittings, and air springs with a soapy water solution. Repair, retighten, or replace as required. Note: Plastic air lines must be cut square. See Air Control System Parts List (General Notes) for additional notes.<br>2) Insert exhaust tube into a cup of water and examine for bubbles. This will show evidence of both inlet and exhaust valve leaks.<br>3) Replace components.<br>4) Check and replace if necessary. Arrow should point away from the air compressor head. Correct if necessary.<br>5) Check and replace if necessary.<br>6) Locate obstruction and remove or relocate interference. |
| Air compressor will not start             | 1) Inline fuse burnt or circuit breaker tripped.<br>2) Air compressor motor burnt out.<br>3) Disconnected or broken wire.<br>4) Ignition switch and/or suspension power switch not on.   | 1) Replace or reset.<br>2) Inspect and replace as required.<br>3) Inspect and correct or replace if necessary.<br>4) Turn on ignition switch and/or suspension switch.  |

# REPLACEMENT INSTRUCTIONS & WARRANTY

## R-SERIES

### Replacement Instructions

NOTE: Due to the nature of service to be performed it is recommended that a qualified mechanic do the work.



### Limited Warranty

ReycoGranning® warrants its R-Series suspensions to be free from defects in material and workmanship under normal use and service in the U.S. and Canada.

**Main Structural Components** -- 24 months or 50,000 miles, whichever occurs first. Defined as: hangers, beams, clip plates and axle saddles.

**Other Air Suspension Components** -- 12 months or 24,000 miles, whichever occurs first - valves, fasteners, bushings, and other components not stated specifically (when provided by ReycoGranning®), and other fabricated metal components. ReycoGranning® provides no warranties on components such as axles, air springs, controls, air compressors, brakes, shock absorbers, and hub and drum assemblies, except to the extent of any warranty provided to ReycoGranning® Suspensions by the manufacturer of such components.

**Labor** -- 6 months or 12,000 miles whichever comes first. Labor will be allowed on ReycoGranning® Suspensions estimated time to make repairs at a maximum rate of \$50.00 per hour. As used herein, the term "normal use and service" means that the suspension will be installed, operated, inspected and maintained in accordance with the applicable ReycoGranning® Suspensions owner's manual, and any applicable vehicle owner's manual or instructions.

### Adjustments

The starting date for the above warranty period is the date of purchase of the suspension by the first end user. Proof of such date is the responsibility of the first end user. If the purchase date is not established to ReycoGranning® Suspensions satisfaction, the date of manufacture determined from the suspension system's serial number shall be used as the effective starting date. When adjustment is sought under this warranty, a claim should be made by contacting the distributor or manufacturer who installed the suspension, who will coordinate the fix, documentation, parts shipment, etc. directly with ReycoGranning® Suspensions.

**\*NOTE\* ReycoGranning® Suspensions must be notified in writing using a warranty claim form promptly upon claimed defect.**

### INSTALLER AND END USER RESPONSIBILITIES

The Distributor/Installer is responsible for installing the product according to ReycoGranning® Suspensions approved procedures, the installer is also responsible (either directly or through its agent/dealer) for providing a copy of ReycoGranning® Suspensions warranty and owner's manual to the end user, and for advising the end user of proper use, service and maintenance required for the product. The end user is responsible for operating, inspecting and maintaining the suspension according to the instructions in the ReycoGranning® Suspensions owner's manual and any applicable vehicle owner's manual, and for properly instructing all operators and maintenance personnel.

**\*NOTE\* Warranty may be denied for improper installation.**

### LIMITATIONS AND EXCLUSIONS

No warranty applies in the event of: use of components, parts and/or accessories not obtained from or approved by ReycoGranning® Suspensions or which do not meet ReycoGranning® Suspensions quality and performance specifications; improper installation, maintenance or repair; misuse or abuse including but not limited to overloading; or unauthorized alterations or modifications.

THE ABOVE WARRANTIES ARE SUBJECT TO THE "WARRANTY LIMITATIONS" AND "REMEDIES" SECTIONS OR REYCOGRANNING® SUSPENSIONS INVOICE TERMS AND CONDITIONS.

This policy supersedes any previous warranty statements.

03/2005



1205 Industrial Park Drive  
Mount Vernon, Missouri USA 65712  
Tel (417) 466-2178 Fax (417) 466-3964  
[www.reycogranning.com](http://www.reycogranning.com)

3216 Olympia Drive, Suites D  
Lafayette, Indiana USA 47909  
Tel (765) 838-0361 Fax (765) 838-1694  
[www.reycogranning.com](http://www.reycogranning.com)

Page Left Blank Intentionally

Page Left Blank Intentionally

Page Left Blank Intentionally

# **Reyco<sup>®</sup>** **Granning<sup>®</sup>** **S U S P E N S I O N S**

Reyco Granning Suspensions  
1205 Industrial Park Drive  
Mount Vernon, MO 65712  
Phone: 417-466-2178  
Fax: 417-466-3964  
[www.reycogranning.com](http://www.reycogranning.com)