RSS-232/232T 20K – Truck and Trailer
Self-Steering Auxiliary Axle Suspension

Installation and Service Manual

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RSS-232 - Truck suspension shown
SUSPENSION IDENTIFICATION

Introduction
The Ridewell Self-Steering (RSS)-232/232T 20K Suspension series is a fully integrated, auxiliary axle suspension system available for a range of truck and trailer applications.

The RSS-232/232T 20K Suspension System can be configured with either drum or disc brake axle assemblies and with an optional steering lock.

Suspension Identification Tag
A (606-) Installation/Assembly Number will be listed as the Part Number when other system components are factory installed with the suspension (Figure 1).

The Suspension Number and Serial Number on the Suspension ID Tag refer to the model and the date of manufacture of an individual suspension system.

Please refer to the suspension number/part number and serial number on the Suspension Identification Tag when contacting Ridewell for customer service, replacement parts and warranty information.

Notes and Cautions
All work should be completed by a properly trained technician using the proper/special tools and safe work procedures.

Read through the entire Installation and Service Manual (ISM) before performing any installation or maintenance procedures.

The ISM uses two types of service notes to provide important safety guidelines, prevent equipment damage and make sure that the suspension system operates correctly.

The service notes are defined as:
“NOTE”: Provides additional instructions or procedures to complete tasks and make sure that the suspension functions properly.

⚠️ CAUTION: Indicates a hazardous situation or unsafe practice that, if not avoided, could result in equipment damage and serious injury.

RIDEWELL SUSPENSIONS
The Engineered Suspension Company

PART NO:  
SUSP. NO:  
SERIAL NO:  

GROSS AXLE WEIGHT RATING CERTIFICATION IS PER THE FINAL STAGE MANUFACTURER OR ALTERER.  
THIS PRODUCT MAY BE COVERED UNDER ONE OR MORE PATENTS, ADDITIONAL PATENTS MAY BE PENDING.  
www.ridewellcorp.com (800) 641-4122

Figure 1.  
The Suspension Model (Suspension Number) and the date of manufacture (Serial Number) are listed on the Suspension Identification Tag.

Notes on Self-Steering Option
Self-steering suspensions are designed to steer only in the forward direction. The suspension should be raised off the ground or locked into a non-steering configuration during reverse travel to avoid damaging the suspension.

Ridewell Suspensions strongly recommends the use of automated systems that raise/lock the lift-axle during reverse travel. For manual operations, Ridewell recommends the installation of a visual/audible indicator to assist the driver.

Use caution when maneuvering in reverse with the steering lock engaged. The driver should maintain slow maneuvering speeds and avoid extreme turns.  
⚠️ CAUTION: Failure to lift the suspension and-or engage the steering-lock during reverse travel can cause component damage and void the warranty.
**Prior to Installation**

Refer to the engineering drawing to confirm dimensional requirements and the range of ride heights available.

Installations can vary and procedures should be adapted for different vehicles, as needed.

- The Gross Axle Weight Rating (GAWR) is determined by the system component with the lowest load rating. Please consult with tire, wheel, axle and brake manufacturers before installation to determine the GAWR.

- If vehicle chassis modifications are required, consult with the vehicle manufacturer to ensure that such changes are permitted.

- Welding or altering suspension components is not permitted without the express written permission of Ridewell Suspensions.

- **Frame Width Adjustment**: The RSS-232 suspension system can be provided at a pre-configured frame width or adjusted before installation. Adjust the frame width by moving the two cross channel sections along a center slot to the desired width and temporarily bolt in place. Attach the hangers, drill through the supplied pilot holes and bolt the two sections together.

  Shim washers (wear washers) are installed to properly align the suspension (Figure 2).

<table>
<thead>
<tr>
<th>Frame Width</th>
<th>Shim Washer Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.5”-34”</td>
<td>1 3</td>
</tr>
<tr>
<td>34”-34.5”</td>
<td>2 2</td>
</tr>
<tr>
<td>34.5”-35”</td>
<td>3 1</td>
</tr>
</tbody>
</table>

**Figure 2. Set cross channel to desired width and install shim (wear) washers in correct quantities at marked locations for suspension alignment.**

**Installer Responsibilities**

The installer of the suspension has the sole responsibility for proper attachment of the suspension system to the vehicle chassis.

- The installer is responsible for locating the suspension system on the vehicle to provide the proper load distribution.

- The installer must verify that vehicle crossmembers are positioned to support the suspension at the installing location.

- It is the installer’s responsibility to determine that axle spacing conforms to any applicable federal and local bridge laws.

- The installer must verify that air reservoir volume requirements are met after suspension installation. Consult the vehicle manufacturer or Federal Motor Vehicle Safety Standards (FMVSS) 121 for more information.

- The installer must verify there is sufficient clearance for proper functioning of the auxiliary suspension, air springs, brake chambers, steering components, axle (including axle to driveline clearance) and tires.
Mounting the suspension to the frame

Refer to the engineering drawing for the range of ride heights available as well as spacing and clearance requirements of the suspension.

All RSS-232/RSS-232T 20K Suspension Systems are shipped fully assembled. If the system is taken apart for installation, components must be reassembled with the proper torque applied (Appendix).

(Trailer) - Weld-On Installation Procedure

Recommended locations of customer-furnished filler plates and supporting crossmembers for the hangers and air spring mounting plates are shown on the engineering drawing.

Before welding, check the location for sufficient clearances in both the raised and lowered positions.

**CAUTION** The welding method used must develop a minimum weld tensile strength of 70,000 psi per AWS specifications.

(Truck) - Bolt-On Installation Procedure

The ride height on RSS-232 20K Truck Suspensions can be adjusted by installing a 2-inch spacer above the hangers and air spring mounting plates before installing the suspension (Figure 4 - pg 8).

An installed spacer requires a change from the standard 8-inch bolting rail height (the portion of the hanger extending above the bottom of the frame). Predrilled holes in the RSS-232 20K truck suspension are provided to locate the hanger flange at the correct bolting rail height.

Suspension hangers are attached to the vehicle frame with six 5/8-inch bolts in each hanger. Air spring mounting brackets require two 5/8-inch bolts in each bracket.

Grade 8 bolts and flanged locknuts or locknuts with hardened washers are required.

1. Measure the vehicle frame width and the hanger-to-hanger inside dimensions of the suspension. Customer-supplied filler plates are required for the hangers and air spring mounting brackets if the vehicle frame width is narrower than that of the suspension.

2. Place the suspension (with hanger and air spring filler plates and air spring mounting plate spacer(s), if required) in desired location. NOTE: A crossmember must be located on the frame within six inches of the leading or trailing edge of the hanger.

3. Check that the location provides adequate clearance for suspension components. Make sure the top of the hangers and air spring mounting plates are parallel to the chassis frame to maintain the proper caster angle.

4. Hangers and air spring mounting plates should be perpendicular to the chassis frame and in alignment with each other. Clamp the hangers, mounting plates and the spacer and filler plates (if required) firmly in place.

5. Refer to the engineering drawing for the recommended bolt hole locations on the hangers and air spring mounting plates. If it is not possible to use the recommended bolt locations, space the bolt holes as far apart as possible to provide the greatest support for the suspension.

**CAUTION** Check to make sure that wires, hoses or other components located within the frame rail are not affected by drilling.

6. Center punch and drill six bolt holes in each hanger. Bolt each hanger to the frame with six 5/8-inch bolts and locknuts.

7. Center punch and drill two bolt holes in each air spring mounting bracket. Bolt each air spring bracket to the frame with two 5/8-inch bolts and locknuts.

8. Install/connect the air control kit (ACK) to the suspension (Page 6). Check the air system after installation for leaks and proper operation of controls.

9. Perform final assembly and inspection and check the wheel toe setting (Page 5)

**CAUTION** Failure to torque bolts/nuts of suspension components to specifications can result in failure of the suspension and void the warranty.
Final Assembly and Inspection

1. Verify that all suspension component bolts/nuts are torqued to specifications (Appendix).

2. Install wheels and tires. **CAUTION** When lowering an auxiliary axle on an unloaded vehicle, pressure to the load air springs must be reduced to below 10 psi. Failure to reduce the air pressure could cause the vehicle’s drive axles to rise from the ground and the vehicle could roll in an unsafe manner.

3. Check that tires are inflated to recommended pressure. Check wheel hubs for proper level of lubricant recommended by the manufacturer.

4. Lift the axle to the raised position. Check the air system tubing and connections for leaks.

5. Check that wheels can rotate freely and that brakes and slack adjusters are properly adjusted.

6. Raise and lower the suspension assembly (wheels and tires installed) through the entire range of travel. Make sure that sufficient clearances for air springs, brake chambers and other components has been provided.

7. Check the vehicle’s reverse travel options:
   7.1 Check steer lock operation.
   7.2 Check automated system (if installed) to make sure that suspension raises/locks wheels during reverse travel. **CAUTION** Failure to check reverse travel operations can result in component damage and void the suspension warranty.
   7.3 Do not lower the auxiliary axle while the vehicle is moving above 10 mph.

8. Check wheel toe-in setting and adjust, if necessary (between 1/32” and 3/32”).

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Regulate load with air spring pressure

The load capacity of the auxiliary axle is adjusted by increasing or decreasing the pressure to the air springs. By applying more air, the lift axle takes on a greater percentage of the load’s weight. The load capacity is decreased as the air pressure decreases.

Accurate readings of the load capacity can be obtained by parking a loaded vehicle over a calibrated scale and lowering the axle onto the scale. The air pressure to the air springs is manually adjusted up or down to obtain the axle load weight at various air pressures. **CAUTION** Do not exceed the rated load capacity of the suspension system or other components. Exceeding the capacity can cause component failure and void the warranty.

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Wheel Toe Setting

Wheel toe is the relationship of the distance between the front of the tires and the distance between the rear of the tires on the same axle. When the front distance is less than the rear distance, the wheels are in a “toe-in” (positive toe) condition.

The correct setting for the RSS-233 suspension should be a positive toe-in between 1/32” and 3/32”.

Check Wheel Toe Setting

1. Deflate the air springs.
2. Lift the axle enough for tires to rotate freely. Support with jack stands to ensure axle is level.
3. Position tires to point straight ahead. Spin each tire. Use a piece of chalk to mark a line on the center tread all the way around each tire.
4. Use a tape measure to measure the distance between the center mark at the front and the rear of the tires.
5. Subtract the distance measured at the front of the tires from the distance measured at the rear of the tires to obtain the wheel toe setting (between 1/32” and 3/32”).

Adjust Wheel Toe

1. Loosen the clamps on both ends of the tie rod. Twist the tie rod forward/backward to move the front of the tires towards or away from each other (increase/decrease toe-in setting).
2. Continue rotating the tie rod until the proper toe-in setting is achieved.
3. Torque the tie-rod clamps to 50 ft-lb (68 N-m).
Install air system components

Connect the load and lift air springs and an air control kit to the air system (Figure 3).

The air control kit (ACK) consists of a pressure regulator with a gauge connected to an air valve controlled by an electric switch or manual knob. The ACK allows the operator to control the air spring pressure so that the auxiliary axle can support different loads.

Ridewell has a number of manual/electric ACK configurations available. Installation will vary by the type of configuration.

**CAUTION** The installer is responsible for making sure that air system requirements comply with the appropriate Federal Motor Vehicle Safety Standards.

### Troubleshooting – Air System Installation

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Air springs fill but do not exhaust. | — Obstructed air line.  
— Faulty controls wiring.  
— Manual override pushed in | — Check for pinchedblocked lines.  
— Check wiring with voltmeter and correct wiring/installation.  
— Release manual override. |
| Air system leaks down after a short period of time. | — Leak in air system beyond accepted standards. | — Pressurize system and spray soap water solution onto the tubing, valves and fittings. Check for bubbles (leaks). Note: Some valves will leak at an acceptable rate.  
— Check that tubing cuts are straight and smooth. Re-cut and reassemble fitting joints, if necessary. |
| Auxiliary unit will not stay up | — Loose Air Fittings.  
— Damaged Air Lines.  
— Air lines to lift and load air springs are reversed.  
— Damaged or Worn Air Springs. | — Check and retighten fittings. Repair or replace component, as necessary.  
— Check installation. Air line from regulator goes to (load) air springs.  
— Replace if worn or damaged. |
| Auxiliary unit not getting the correct lift | — Air lines to lift and load air springs are reversed.  
— Lift air springs do not have proper air pressure.  
— Interference with driveline or other chassis components.  
— Air control system not installed correctly. | — Check installation. Air line from regulator goes to (load) air springs.  
— Check for loose fittings or worn/damaged lines. Verify air tank pressure with gauge.  
— Visually inspect unit operation for proper clearance. Check for loose fasteners and retighten.  
— Check installation; refer to OEM installation procedures. |

![Figure 3. Example of Air Control Kit (ACK) installation](image)
A visual inspection of the suspension structure should be performed during each pre-trip/safety inspection. Ridewell Suspensions recommends the following minimum service intervals for standard duty, on-highway usage applications. More frequent intervals are recommended for heavier duty applications.

### Daily/Pre-Trip Inspections
- Check tires for proper inflation, damage or excessive wear.
- Check wheel-ends for obvious signs of lubricant leakage. Check for missing components.
- Visually inspect suspension structure for signs of damage or excessive wear.
- Check for loose or missing bolts/nuts. Check for irregular movement in suspension components.
- Make sure air controls are operating properly. Drain all moisture from air reservoirs.

### First 6,000 miles of use
- Torque all suspension bolts/nuts to specifications (Appendix).

### Every 12,000 miles of use
- Lubricate Brake Cam and Slack Adjuster.
- Inspect kingpins and upper/lower kingpin bushings for wear. Grease thrust bearings.
- Inspect steering damper for damage/wear.
- Inspect air springs for any damage or excessive wear. Torque air spring bolts/nuts to specifications (Appendix).
- Check air system for leaks.

### First 50,000 miles of use
- Torque all suspension bolts/nuts to specifications (Appendix).
- Check wheel ends for excessive play.
- Check suspension pivot bushings for wear.
- Check operation of (reverse) steering lock (if equipped).
- Verify operation of manual/automatic lift-in-reverse control (if equipped).
- Inspect tie rod and tie rod ends for damage and wear. Lubricate tie rod ends. Check that tie rod boot is in place and completely over the end of the tie rod. Replace the entire tie rod end if boot is damaged.

### Annually/100,000 miles of use
- Inspect pivot connections for worn pivot bushings and replace, if necessary. Torque pivot hardware and component bolts/nuts to specifications (Page 11).
- Check suspension hanger and air spring mounting plate connections to frame.
- Check lubrication level in wheel ends:
  1) Oil-Filled Wheel Ends: Refill/Replace lubricant as needed (Refer to TMC RP 631 “100K/Annual Inspection”).
  2) Semi-Fluid Grease: Pull outer bearing and visually inspect lubrication level. Refill/Replace as needed (Refer to TMC RP 631 “Level 3 Lubrication Level Inspection” and TMC RP 618 “Wheel Bearing Adjustment Procedure”).
- Check air system for leaks.
- Test air system pressure protection valve (if equipped).
- Check brake chambers and brakes for damage and proper function.

⚠️ **CAUTION** Failure to exhaust all pressure from the air system before working on the vehicle can cause serious injury.

⚠️ **CAUTION** Failure to torque bolts/nuts of suspension components to specifications can result in failure of the suspension and void the warranty.

Refer to the following Technology & Maintenance Council (TMC) publications for additional maintenance information.

<table>
<thead>
<tr>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMC RP 609 Self-Adjusting and Manual Brake Adjuster Removal, Installation and Maintenance</td>
</tr>
<tr>
<td>TMC RP 618 Wheel Bearing Adjustment Procedures</td>
</tr>
<tr>
<td>TMC RP 619 Air System Inspection Procedure</td>
</tr>
<tr>
<td>TMC RP 622 Wheel Seal and Bearing Removal, Installation, and Maintenance</td>
</tr>
<tr>
<td>TMC RP 631 Recommendations for Wheel End Lubrication</td>
</tr>
<tr>
<td>TMC RP 643 Air Ride Suspension Maintenance Guidelines</td>
</tr>
<tr>
<td>TMC RP 645 Tie Rod End Inspection and Maintenance Procedure</td>
</tr>
<tr>
<td>TMC RP 651 Steer Axle Maintenance Guidelines</td>
</tr>
</tbody>
</table>
Figure 4.
RSS-232-20K Truck Suspension
Refer to the Steer Lock (S) version of the RSS-232/232T - 20K Truck and Trailer engineering drawing for the individual component part number.

NOTE:
RSS-232T-20K Trailer Suspension also has multiple pivot bushings installed in lower torque rods.

Bushing replacement kits include wear washers, multiple bushings, and (optional) pivot hardware.
RSS-232-20K Truck Suspension - Drum Brake Axle Assembly (Steer Lock version)
Refer to the Steer Lock (S) version of the RSS-232/232T - 20K Truck and Trailer engineering drawing for the individual component part number.
## RSS-232/232T 20K Suspension – Torque Specifications

<table>
<thead>
<tr>
<th>Fastener Type</th>
<th>Size</th>
<th>Torque Values</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt/Locknut (Cross Channel)</td>
<td>1/2”-13NC</td>
<td>50 ft-lb</td>
<td>68 N-m</td>
</tr>
<tr>
<td>Locknut (Air Spring)</td>
<td>3/4”-16NF</td>
<td>50 ft-lb</td>
<td>68 N-m</td>
</tr>
<tr>
<td>Bolt/Lock Washer/Nut (Air Spring)</td>
<td>1/2”-13NC</td>
<td>25 ft-lb</td>
<td>34 N-m</td>
</tr>
<tr>
<td>Bolt/Locknut (Steering Damper)</td>
<td>3/4”-10NC</td>
<td>160 ft-lb</td>
<td>217 N-m</td>
</tr>
<tr>
<td>Pivot Bolt - (Hex Head Cap Screw (HHCS))</td>
<td>7/8”-14NF</td>
<td>500 ft-lb</td>
<td>678 N-m</td>
</tr>
<tr>
<td>Pivot Nut - (Locknut)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Torque values reflect a lubricated thread condition (Nuts are pre-lubed). Do not overtorque.

**CAUTION** Suspension is shipped with minimal torque applied to fasteners. It is the installer’s responsibility to apply the proper torque values. All fasteners MUST be re-torqued after the first 6,000 miles of operation. Failure to install and maintain suspension component fasteners at torque specifications could result in suspension failure and void the warranty.

## RSS-232/232T 20K Suspension – Bushing Replacement Kit

<table>
<thead>
<tr>
<th>Suspension Type</th>
<th>Bushing Rplcmnt Kit Part No.</th>
<th>Pivot Hardware</th>
<th>Torque Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bushings kit - No pivot hardware</td>
<td>500 ft-lb</td>
</tr>
<tr>
<td>Trailer Suspension</td>
<td>6040085</td>
<td>Bushings kit with pivot hardware</td>
<td>500 ft-lb</td>
</tr>
<tr>
<td>Truck Suspension</td>
<td>6040086</td>
<td>Bushings kit - No pivot hardware</td>
<td>500 ft-lb</td>
</tr>
<tr>
<td>Trailer Suspension</td>
<td>6040111</td>
<td>Bushings kit with pivot hardware</td>
<td>500 ft-lb</td>
</tr>
<tr>
<td>Truck Suspension</td>
<td>6040112</td>
<td>Bushings kit with pivot hardware</td>
<td>500 ft-lb</td>
</tr>
</tbody>
</table>

**CAUTION** Failure to install and maintain fasteners at torque specifications could result in suspension failure and voiding of the warranty. Refer to the engineering drawing for torque specifications.
Park the vehicle on a level surface. Chock wheels to keep vehicle from moving. Exhaust all air from the air system. Disassemble suspension, if necessary, to reach pivot connections.

**Caution:** Failure to properly chock wheels and exhaust the air system could allow vehicle movement that could result in serious injury.

Bushing replacement kits include both soft and hard urethane bushings for hanger end of lower torque rods. Wear washers are included in bushing kits.

1. Count and note the number of wear washers on each side of the upper torque rod (Hanger End) and the lower torque rod (Axle End). The number of wear washers will vary with the frame width (Figure 6).
2. Remove the pivot hardware and discard. Discard wear washers. **Note:** Wear washers are included in bushing replacement kits. Pivot hardware is optional purchase with bushing replacement kit.
3. Remove bushing assemblies and discard. Clean the rod eye of any foreign debris or corrosion.
4. Apply Energy Suspensions® Formula 5 Prelube to the bore (inside) of new bushings. **Note:** Do not substitute - special bushing lubricant included with all bushing kits.
5. Lower Torque Rod (Axle End):
   5.1 - Press the replacement hard and soft bushings into the axle end of the lower torque rod (Figure 4-Page 8).
   5.2 - Press inner sleeve into the installed bushings. Check to make sure that bushing ends are flush with the eye of the torque rod.
   5.3 - Position the inner sleeve to extend slightly past the right or left side of the torque rod eye, depending on the number of wear (shim) washers needed (Figure 6). **Note:** Trim bushing ends flush to torque rod eye, if necessary.
   5.4 - Assemble pivot connection with the number of wear washers on either side of the torque rod. Torque pivot hardware to specifications.
6. Lower Torque Rod (Hanger End) -
   6.1 - Install soft bushings into the hanger end of the lower torque rod. Check to make sure that bushing ends are flush with the eye of the torque rod.
   6.2 - Press inner sleeve into the installed bushing. Center the inner sleeve so that both ends extend slightly past the sides of the torque rod eye. Assemble the pivot connection with one wear washer on either side of the bushing. Torque pivot hardware to specifications (Appendix).
7. Upper Torque Rod (Hanger End)
   7.1 - Install soft bushing into the eye of the upper torque rod.
   7.2 - Press inner sleeve into the installed bushing. Position sleeve to extend past the right or left side of the torque rod eye, depending on the number of wear (shim) washers needed. **Note:** Check to make sure that bushing ends are flush with the eye of the torque rod. Trim, if necessary.
   7.3 - Assemble the pivot connection with the appropriate number of wear washers (Figure 6). Torque pivot hardware to specifications.
8. Upper Torque Rod (Axle End)
   8.1 - Install soft bushing into the hanger end of the lower torque rod. Check to make sure that bushing ends are flush with torque rod eye. Trim bushing ends flush to eye, if necessary.
   8.2 - Press inner sleeve into the installed bushing. Center the inner sleeve so that both ends extend slightly past the sides of the torque rod eye. Assemble the pivot connection with one wear washer on either side of the bushing. Torque pivot hardware to specifications (Appendix).
9. Reassemble suspension, if necessary. Torque components to specifications (Appendix).
10. Check wheel toe-in setting (between 1/32” and 3/32”) and adjust, if necessary.

![Frame Width Shim Washer Qty]

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</tr>
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</table>

**Figure 5.** Install number of shim (wear) washers at marked locations for suspension alignment.
Terms and coverage in this warranty apply only to the United States and Canada.

Ridewell Suspensions warrants the suspension systems manufactured by it to be free of defects in material and workmanship. Warranty coverage applies only to suspensions that have been properly installed, maintained and operated within the rated capacity and recommended application of the suspension. The responsibility for warranty coverage is limited to the repair/replacement of suspension parts. The liability for coverage of purchased components is limited to the original warranty coverage extended by the manufacturer of the purchased part.

All work under warranty must have prior written approval from the Ridewell warranty department. Ridewell has the sole discretion and authority to approve or deny a claim and authorize the repair or replacement of suspension parts. All parts must be held until the warranty claim is closed.

Parts that need to be returned for warranty evaluation will be issued a Returned Materials Authorization (RMA). Parts must be returned to Ridewell with the transportation charges prepaid. The transportation charges will be reimbursed if the warranty claim is approved.

This non-transferable warranty is in lieu of all other expressed or implied warranties or representations, including any implied warranties of merchantability or fitness or any obligations on the part of Ridewell. Ridewell will not be liable for any business interruptions, loss of profits, personal injury, any costs of travel delays or for any other special, indirect, incidental or consequential losses, costs or damages.

Contact the Ridewell Warranty Dept. at 417.833.4565 - Ext. 135, for complete warranty information.