Contents of the User Manual & Operating Instructions specify the manner in which the ReelRover™ is to be operated as intended by Cerrowire®. The ReelRover is designated for use only as stipulated within this document. Any deviation from the User Manual & Operating Instructions is unauthorized and represents improper use of the equipment. This designated document is used by Cerrowire to conduct training of distribution customers for proper use so that the ReelRover is safely and correctly operated in both the distribution facility and on the job site. Cerrowire provides the User Manual & Operating Instructions document to distribution customers so that subsequent internal training as well as external contractor training may be provided by the distributor. It is the responsibility of the distributor to ensure that all internal and external users are properly trained and qualified in accordance with the procedures presented in this manual.
Contents

Figures ................................................................................................................................................. 4
Components .............................................................................................................................................. 5
Specifications ........................................................................................................................................... 6
Safety Procedures .................................................................................................................................... 7
Symbols and Warnings ............................................................................................................................ 8
Gearbox ................................................................................................................................................... 10
  PARK (P) ............................................................................................................................................... 11
  NEUTRAL (N) ...................................................................................................................................... 11
  DRIVE (D) .......................................................................................................................................... 11
Basic Operation ........................................................................................................................................ 12
Operating the ReelRover in PARK .......................................................................................................... 12
Operating the ReelRover in NEUTRAL ................................................................................................. 12
Steering in NEUTRAL .............................................................................................................................. 12
Operating the ReelRover in DRIVE ......................................................................................................... 13
Steering in DRIVE ................................................................................................................................... 14
Operating the ReelRover in DRIVE on a Ramp or Grade ....................................................................... 15
Ground Reel ........................................................................................................................................... 16
Ground Reel Lock Procedure .................................................................................................................. 17
Ground Reel Unlock Procedure ............................................................................................................... 18
Winding Adaptor ...................................................................................................................................... 19
Winding Device Use with ReelRover ...................................................................................................... 20
Setting Gearbox .................................................................................................................................... 21
Wire Unloading (Payout) ......................................................................................................................... 21
Transportation & Shipping ...................................................................................................................... 22
  Using a Liftgate to Load the ReelRover ............................................................................................... 23
  Using a Liftgate to Unload the ReelRover ............................................................................................ 24
ReelRover Lock-out Procedure .............................................................................................................. 25
Troubleshooting ...................................................................................................................................... 26
Equipment Inspection Prior to Use ......................................................................................................... 27
Equipment Inspection Checklist ............................................................................................................. 28
Figures

Figure 1a: ReelRover 3+1 ................................................................. 5
Figure 1b: ReelRover 1+1 ................................................................. 5
Figure 2a: ReelRover Specifications Side View ....................................... 6
Figure 2b: ReelRover Specifications Aerial View ....................................... 6
Figure 3: Gearbox Settings .................................................................. 10
Figure 4: PARK Gearshift Position ....................................................... 11
Figure 5: NEUTRAL Gearshift Position ............................................... 11
Figure 6: DRIVE Gearshift Position .................................................... 11
Figure 7a: Sharp Turn in NEUTRAL ................................................... 12
Figure 7b: Gradual Turn in NEUTRAL ............................................... 12
Figure 8: Reel and Drive Wheel Rotation ............................................. 13
Figure 9a: Sharp Turn in DRIVE ....................................................... 14
Figure 9b: Gradual Turn in DRIVE ................................................... 14
Figure 10a: Never Stand or Walk Downgrade of ReelRover ...................... 15
Figure 10b: Caster Wheels Should Always Be Downgrade ....................... 15
Figure 11a: Reel Lock .................................................................... 16
Figure 11b: Reel Lock Indicator ............................................................ 16
Figure 11c: Reel Unlock Indicator ........................................................ 16
Figure 12: Reel Lock Procedure ........................................................... 17
Figure 13: Reel Unlock Procedure ........................................................ 18
Figure 14: Winding Adaptor Insertion ................................................. 19
Figure 15: Winding Device Centerline Location ...................................... 19
Figure 16a: Winding Device Use with ReelRover Winding Adaptor Aerial View and Detail .................................................. 20
Figure 16b: Winding Device Use with ReelRover Winding Adaptor ............ 20
Figure 17a: NEUTRAL Gearshift Position .......................................... 21
Figure 17b: PARK Gearshift Position ................................................. 21
Figure 18: Wire Unloading .................................................................. 21
Figure 19: Forklift Locations ............................................................... 22
Figure 20a: Moving ReelRover onto Liftgate ........................................ 23
Figure 20b: Remove Locking Pin .......................................................... 23
Figure 20c: Insert Locking Pin ............................................................. 23
Figure 20d: Moving ReelRover into Truck ............................................. 23
Figure 21a: Moving ReelRover off Truck onto Liftgate ............................. 24
Figure 21b: Remove Locking Pin .......................................................... 24
Figure 21c: Insert Locking Pin ............................................................. 24
Figure 21d: Moving ReelRover Off Liftgate .......................................... 24
Figure 22a: Wire Cable Through Eyebolt .............................................. 25
Figure 22b: Wire Cable Through Eyebolt .............................................. 25
Figure 22c: Safety Cable Around Hand Rail of Reel .................................. 25
Figure 22d: Lock the Two Ends of the Wire Cable Together with the Lock .... 25
Figure 23: Left-Hand 180° Driven Turn .............................................. 29
Figure 24: Right-Hand 180° Driven Turn ............................................. 30
Components

Figure 1a: ReelRover 3+1

Figure 1b: ReelRover 1+1
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Height</td>
<td>65 inches</td>
</tr>
<tr>
<td>Max Wheel Base Length</td>
<td>60 inches</td>
</tr>
<tr>
<td>Wheel Base Width</td>
<td>32 inches</td>
</tr>
<tr>
<td>Unloaded Vehicle Weight</td>
<td>700 lbs.</td>
</tr>
<tr>
<td>Total Vehicle Capacity</td>
<td>2700 lbs.</td>
</tr>
<tr>
<td>Conductor Reel Capacity</td>
<td>1500 lbs.</td>
</tr>
<tr>
<td>Ground Reel Capacity</td>
<td>500 lbs.</td>
</tr>
</tbody>
</table>

Figure 2a: ReelRover Specifications Side View

Figure 2b: ReelRover Specifications Aerial View
Safety Procedures

Read and understand prior to using this product.

This machine is designed for certain applications only. Cerrowire cannot be responsible for issues arising from modification. We strongly recommend this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Cerrowire to determine if it can or should be performed on the product.

- Never overload the ReelRover. Stay within rated capacity.
- Do not operate this ReelRover if damaged or not in proper working order.
- Never put your feet, hands or any other body part under the frame assembly.
- Do not leave ReelRover unattended or in NEUTRAL on a hill or incline.
- Do not operate ReelRover on a hill or incline with an angle greater than 10°.
- Do not allow the ReelRover to drop from one level to another.
- Always ensure gearbox is in PARK on both sides of the ReelRover when securing ReelRover for loading/unloading wire from reel.
- When not in use, place both gearboxes in PARK.
- Do not drag, push, or tow ReelRover with another vehicle or device.
- Always keep hands on ReelRover while it is in motion.
- Do not stand or sit on any part of the ReelRover.
- Do not attempt to disassemble or repair the ReelRover unless doing so with authorization from Cerrowire or by ReelRover maintenance technicians/organizations.
- Do not attempt to lift the ReelRover using a strap or chain. The ReelRover should only be lifted using a properly rated forklift or pallet jack in the locations shown in this manual.
- Always use proper safety equipment when using ReelRover, including protective eyewear and appropriate safety footwear.

For technical questions, please contact Cerrowire at 800.367.2906 or reelrover@cerrowire.com.
Symbols and Warnings

**WARNING**
Loss of control can occur. Do not operate in NEUTRAL on incline or decline.

**WARNING**
Loss of control can occur. Do not exceed 10° incline or decline during use. ONLY PARK ON LEVEL GROUND.

**WARNING**
Crushing of hands hazard warning
Indicates areas of the ReelRover where extra caution should be taken to protect against injury to the hands or other extremities.

**WARNING**
Loss of control can occur. Shift gearbox into PARK when left unattended.

**WARNING**
Loss of control can occur. Keep casters downhill.
<table>
<thead>
<tr>
<th>NOTICE</th>
<th>NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX wire weight = 2,000 lbs (970 kg)</td>
<td>Gross vehicle weight = 2,700 lbs (1,225 kg)</td>
</tr>
</tbody>
</table>

DO NOT USE this ReelRover before reading the entire User Manual.

www.cerrowire.com/reelrover-manual

<table>
<thead>
<tr>
<th>FORKLIFT HERE ONLY</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
</table>

Loss of control can occur. Lock the free-spinning ground reel when ReelRover is in motion.

<table>
<thead>
<tr>
<th>DANGER</th>
</tr>
</thead>
</table>

Electrocution Hazard, DEATH OR SERIOUS INJURY can result from contact with the ReelRover if connected to an energized panel. Do not touch the ReelRover when paying out wire into an energized panel.

<table>
<thead>
<tr>
<th>DANGER</th>
</tr>
</thead>
</table>

Shifting center of gravity. Only lift with forklift in designated pockets.

<table>
<thead>
<tr>
<th>DANGER</th>
</tr>
</thead>
</table>

OVERLOAD HAZARD
Stay within rated wire capacity of 2000 lbs and gross vehicle weight of 2700 lbs. Risk of death or injury may result from overloading!

To order replacement safety stickers, contact Cerrowire at 1.800.367.2906 or email reelrover@cerrowire.com. Specify part number PU-SAST-RR36.
Gearbox

The gearbox has three settings: PARK, NEUTRAL, and DRIVE. These settings control the rotation of the drive wheels and reel, as well as their relation to each other. The left and right gearboxes are independently set using the gearshift as shown in Figure 3.

To change the setting, move the gearshift to the desired position (P, N, or D as labeled), making sure the spring detent positively locates in the corresponding hole. The positions of the gearshift for each setting can be seen in Figures 4 through 6.
**PARK (P)**
- Drive Wheels LOCKED and cannot be rotated
- Reel is FREE to rotate in either direction
- Uses:
  - Loading or Unloading wire from reel
  - Securing ReelRover for transportation or shipping, via fork truck or trailer
  - Leaving the ReelRover unattended

**NEUTRAL (N)**
- Drive Wheels FREE to rotate in either direction
- Reel is FREE to rotate in either direction
- Uses:
  - Pushing ReelRover across flat ground
  - Manually steering and positioning ReelRover at job site or distribution center

**DRIVE (D)**
- Drive Wheel rotation is controlled by the speed and direction of reel rotation. Three (3) rotations of the reel is equal to approximately one (1) rotation of the drive wheels (3:1 gear ratio)
- Reel rotation drives the motion of the ReelRover in the same direction of reel rotation, either forwards or backwards
- Uses:
  - Controlling ReelRover down an incline
  - Mechanical advantage up an incline
  - Going over obstacles, such as job-site debris not to exceed 2 inches in height.
Basic Operation

Operating the ReelRover in PARK

When both gearboxes are placed in PARK, as shown in Figure 4, neither drive wheel will be able to rotate, effectively locking the ReelRover in position. The reel is still able to turn freely, allowing wire to be loaded or unloaded without the ReelRover moving.

Operating the ReelRover in NEUTRAL

When both gearboxes are placed in NEUTRAL, as shown in Figure 5, the reel and drive wheel rotation are both free and independent. The ReelRover can be pushed manually with no mechanical advantage in this setting.

Steering in NEUTRAL

The ReelRover can be steered in NEUTRAL by pushing in the direction of the desired turn. The larger the angle, the sharper the turn.

Figure 7a: Sharp Turn in NEUTRAL

Figure 7b: Gradual Turn in NEUTRAL
Operating the ReelRover in DRIVE

When both gearboxes are placed in DRIVE, as shown in Figure 6, the reel rotation is locked to the drive wheels with a gear reduction. The ReelRover can be driven either straight forward or back using the reel rotation. The gear reduction allows for driving the ReelRover uphill, controlling the speed downhill, and going over obstacles.
Steering in Drive

When only one gearbox is placed in DRIVE, the ReelRover can be turned in the direction of the parked wheel. If the other gearbox is placed in PARK, the turn will be sharp (almost 90 degrees). If the other gearbox is placed in NEUTRAL, the turn will be more gradual, depending on factors such as ground type and weight of wire on reel.

Figure 9a: Sharp Turn in DRIVE

Figure 9b: Gradual Turn in DRIVE
Operating the ReelRover in Drive on a Ramp or Grade

It is imperative that the following safety precautions be taken when driving ReelRover or controlling its speed on ramps and grades:

**Potential Hazards:**

- There is a danger of tip over when traveling on ramps and grades.
- Falling off the edge of the ramp or grade.
- Skidding or slipping due to wet or icy conditions.
- Free descent on a grade.

**Requirements and Recommended Practices:**

- The ReelRover should NEVER be operated on a ramp or grade with an angle greater than 10° as indicated by the ReelRover shown in Figure 10b.
- Always look in the direction of travel.
- **The caster wheels should always be downgrade regardless of direction of travel when operating on an incline, shown in Figure 10b.**
- Never turn on a ramp or grade. Set the gearboxes and position the ReelRover on a flat surface prior to using the grade so that ReelRover may move straight up or down the ramp or incline.
- Never stand or walk directly downgrade of ReelRover, Figure 10a.
- Maintain a safe distance from the edge of the ramp or grade.
- Keep working surfaces clear and clean.
- **NEVER ALLOW FREE DESCENT ON A GRADE. ALWAYS PLACE THE REELROVER IN DRIVE ON FLAT GROUND AND CONTROL THE UNIT DURING DESCENT.**

---

*Figure 10a: Never Stand or Walk Downgrade of ReelRover*

*Figure 10b: Caster Wheels Should Always Be Downgrade*
Ground Reel

The ReelRover can be equipped with a free-spinning Ground Reel that can be locked or unlocked with the reel lock handle as shown in Figure 11a. This allows for simultaneous loading and unloading of smaller gauge ground wire with the conductor wire, without the need for reel disassembly.

Figure 11a: Reel Lock

Figure 11b: Reel Lock Indication

Figure 11c: Reel Unlock Indication
Ground Reel: Lock Procedure

IMPORTANT: Make sure the ReelRover gear selectors (both sides) are placed in the PARK position.

Step 1:
Pull plunger knob out so that the Free-Spinning Ground Lock Handle may slide.

Step 2:
Slide the Free-Spinning Ground Lock Handle toward center of reel until the Position Indicator aligns with the Lock indicator.

Step 3:
Confirm that the plunger knob has returned to the closed position (no longer pulled out) and that the Position Indicator is still aligned with the Lock indicator.

The Ground Reel is now rotationally locked to the Conductor Reel.

Uses:
- Loading ground wire with conductor wire.
- DRIVE & NEUTRAL settings.

Figure 12: Reel Lock Procedure
Ground Reel: Unlock Procedure

IMPORTANT: Make sure the ReelRover gear selectors (both sides) are placed in the PARK position.

Step 1:
Pull plunger knob out so that Free-Spinning Ground Lock Handle may slide.

Figure 13: Reel Unlock Procedure

Step 2:
Slide the Free-Spinning Ground Lock Handle toward perimeter of reel until the Position Indicator aligns with the Unlock indicator.

Step 3:
Confirm that the plunger knob has returned to the closed position (no longer pulled out) and that the Position Indicator is still aligned with the Unlock indicator.

Once unlocked, the Ground Reel is free to spin independently of the Conductor Reel.

Uses:

- Even payout of ground wire with conductor wires.
Winding Adaptor

Inserting Winding Adaptor
The winding adaptor can be inserted into either gearbox as shown in Figure 14. The winding adaptor is used as an attachment point for the reel coiling device.

Align the reel coiling device centerline with the centerline of the adaptor, Figure 15.

Positioning ReelRover
Position ReelRover, using either the DRIVE or NEUTRAL settings (see Fig. 17a & b), and operate the winding device as outlined in the manual for the specific device.

The device’s centerline cone or shaft should line up with the outer bore of the winding adaptor, Figure 15 & 16a, and the engagement pins adjusted to fit into the outer holes of the adaptor.

Danger: Never overload the ReelRover or serious injury or death can occur!

Maximum wire load capacity is 2000 lbs and total vehicle weight is 2700 lbs.
Figure 16a: Winding Device Use with ReelRover Winding Adaptor
Aerial View and Detail

Figure 16b: Winding Device Use with ReelRover Winding Adaptor
Setting Gearbox

Once the ReelRover is in position and the winding device centerline is aligned with the ReelRover Winding Adaptor, make sure the ReelRover is on a level surface and set both gearboxes to NEUTRAL, as shown in Figure 17a, to ensure that the ReelRover gearboxes are free spinning during loading of the wire onto the reel.

Wire Unloading (Payout)

To unload wire from the ReelRover, as shown in Figure 18, position the device in the desired location, following the normal operation instructions. Once in position, set both gearboxes to PARK, as shown in Figure 17b, to ensure that the ReelRover will not move.
Transportation & Shipping

Forklift Locations

The ReelRover should only be lifted using a forklift in the locations shown in Figure 19. This includes the forklift tubes on the sides of the ReelRover.

To lift and transport the ReelRover using pallet a jack, position the forks of the pallet jack under the forklift tubes.

The center of mass of the ReelRover should always be assumed to be the centerline of the reel.

Securing ReelRover for Shipping

During transportation and shipping, the ReelRover should always be properly secured, using straps or tie downs. Additionally, both gearboxes should be placed in PARK prior to any vehicle movement.
Using a Liftgate to Load the ReelRover

Push or Drive the ReelRover onto the liftgate in the orientation shown in Figure 20a.

Once on the liftgate, place both gearboxes in PARK (one gearbox at a time) and engage liftgate chocks (or position individual chocks) as well as tie downs at the discretion of the driver to properly secure the unit from shifting while lifted.

*In order for a liftgate to be used to lift the ReelRover, it must be at least 84” x 60” and be rated for no less than 3000 lbs. If a liftgate does not meet these specifications, another method of loading must be used (i.e. dock or fork truck).*

Remove locking pins from swivel wheel cap holders and insert pins in front swivel holes once the swivel wheels are lined up as shown in Figure 20b & c.

Remove chocks/straps and place both gearboxes into DRIVE (one gearbox at a time). Carefully drive the ReelRover off the liftgate onto the truck, as shown in Figure 20d.

*The ReelRover should be tied down and secured within the truck with both gearboxes in PARK.*
Using a Liftgate to Unload the ReelRover

Remove straps used to secure the ReelRover during shipping and place both gearboxes in DRIVE. Carefully and slowly drive the ReelRover onto the lift gate, as shown in Figure 21a, keeping both hands on the reel at all times to prevent unwanted acceleration. **Keep the ReelRover at a safe distance from any edge of the liftgate.**

A spotter must be used to ensure that the ReelRover maintains a safe distance from all edges of the liftgate.

Once on the liftgate, place both gearboxes in PARK (one gearbox at a time) and engage liftgate chocks (or position individual chocks) as well as tie downs at the discretion of the driver to properly secure the unit from shifting while liftgate is lowered.

**In order for a liftgate to be used to lift the ReelRover, it must be at least 84" x 60" and be rated for no less than 3000 lbs. If a liftgate does not meet these specifications, another method of loading must be used (i.e. dock or fork truck).**

Once the liftgate is fully lowered, place both gearboxes in Drive (one gearbox at a time), remove the chocks/tie downs and carefully drive the ReelRover off the liftgate, as shown in Figure 21d.

Once the ReelRover is on a level surface, remove the lock pins from the swivel wheels and secure the pins into the swivel wheel cap holders as shown in Figures 21b and
ReelRover Lock-out Procedure

The following lock-out procedure is to be used:

- If troubleshooting procedures have failed to correct a problem with the ReelRover.
- If the ReelRover has been damaged.
- If it is deemed it to be unsafe to operate.
- If it is not performing as it should.
- If it has failed any of the check points on the Equipment Inspection Checklist.

Position the ReelRover on a level surface and place both gear selectors in the PARK (P) position if possible. Remove the wire cable and lock from the black plastic canister attached to the lower frame of the ReelRover located behind one of the drive wheels. This same drive wheel has an eyebolt attached to the hub of the wheel. Pass one end of the wire cable through the eyebolt (see Figures 22a & 22b) and then pass it through the nearest handle opening on the black reel (see Figure 22c.) Lock the two ends of the wire cable together with the lock as shown in Figure 22d.

Contact Cerrowire at 1.800.367.2906 for further instructions.
Troubleshooting

- Reel rotates in DRIVE, but ReelRover does not move when the reel is rotated.
  - Stop rotating the reel.
  - Maneuver ReelRover to a safe place on level ground.
  - Place both gearboxes in PARK.
  - Call service line for further instructions.

- Reel is locked and will not rotate as intended in DRIVE.
  - Do not force reel rotation.
  - Attempt to rotate reel in opposite direction.
  - If this does not solve locked reel, place both gearboxes in Park and call service line for further instructions.

- ReelRover will not move in NEUTRAL.
  - Check for obstruction in front of any wheels and remove if found. See if ReelRover can now be moved.
  - If this does not work, place both gearboxes in PARK.
  - Use lock-out procedure to immobilize ReelRover.
  - Call service line for further instructions.

- Gearbox handle will not stay in NEUTRAL.
  - Place in PARK.
  - Use lock-out procedure to immobilize ReelRover.
  - Call service line for further instructions.

For technical questions, please contact Cerrowire at 800.367.2906 or reelrover@cerrowire.com
Equipment Inspection Prior to Use

The *Equipment Inspection Checklist* (located on page 28 of this document) should be completed by qualified personnel at the distributor prior to each time the ReelRover is loaded on a truck for delivery to the contractor. The ReelRover should only be delivered to the contractor once it has passed all of the designated inspection items. All designated items must be in proper working order as stipulated in the checklist or the unit may not be used.

Contact Cerrowire for repair and maintenance assistance at 800.367.2906 or reelrover@cerrowire.com.
## Equipment Inspection Checklist

### Gearboxes
- Both gearshifts freely move into all three positions (P/N/D)
- ReelRover freely moves when pushed manually while both gearshifts are in the NEUTRAL (N) position
- Both drive wheels are intact and rotate on the axle while the gearshift is in DRIVE
- Both caster wheels swivel 360° and rotate freely when the gearshift is in NEUTRAL
- Left-hand (LH) drive wheel does not rotate while performing a 180° driven turn in both directions, with LH gearbox in PARK and RH gearbox in DRIVE
  - See Figure 23 for steps to test this check point
- Right-hand (RH) drive wheel does not rotate while performing a 180° driven turn in both directions, with RH gearbox in PARK and LH gearbox in DRIVE
  - See Figure 24 for steps to test this check point

### Reel
- Rotates on its center axle freely without binding
- Free-spinning ground lock plunger engages in both the locked and unlocked orientations
- Free-spinning ground compartment rotates independently from the conductor reel on its center axle freely without binding

### Chassis
- No visible indications of bending, warping, cracking, or other damage
- Walking beam bolts protrude through locknuts
- Walking beam splits when both right-hand and left-hand drive wheels climb over debris individually and returns to its original position on flat ground

### Table

<table>
<thead>
<tr>
<th>Check Points</th>
<th>Inspection Items</th>
<th>Pass</th>
<th>Fail</th>
<th>Notes</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gearboxes</td>
<td>Both gearshifts freely move into all three positions (P/N/D)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ReelRover freely moves when pushed manually while both gearshifts are in the NEUTRAL (N) position</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Both drive wheels are intact and rotate on the axle while the gearshift is in DRIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Both caster wheels swivel 360° and rotate freely when the gearshift is in NEUTRAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Left-hand (LH) drive wheel does not rotate while performing a 180° driven turn in both directions, with LH gearbox in PARK and RH gearbox in DRIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- See Figure 23 for steps to test this check point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Right-hand (RH) drive wheel does not rotate while performing a 180° driven turn in both directions, with RH gearbox in PARK and LH gearbox in DRIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- See Figure 24 for steps to test this check point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rotates on its center axle freely without binding</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Free-spinning ground lock plunger engages in both the locked and unlocked orientations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Free-spinning ground compartment rotates independently from the conductor reel on its center axle freely without binding</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No visible indications of bending, warping, cracking, or other damage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Walking beam bolts protrude through locknuts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Walking beam splits when both right-hand and left-hand drive wheels climb over debris individually and returns to its original position on flat ground</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Figure 23: Left-Hand 180° Driven Turn

**Test 1**  Left-Hand 180° Driven Turn with Right-Hand Gearbox in **DRIVE**, Left-Hand Gearbox in **PARK**

Parked wheel rotates about **AXIS** (noted by amber crosshair), but does not rotate about **axle**.

**Correct Forward Movement**

**Correct Backward Movement**
Figure 24: Right-Hand 180° Driven Turn

**Test 2** Right-Hand 180° Driven Turn with Right-Hand Gearbox in **PARK**, Left-Hand Gearbox in **DRIVE**

Parked wheel rotates about **AXIS** (noted by amber crosshair), but does not rotate about **axle**.

Correct Forward Movement

Correct Backward Movement