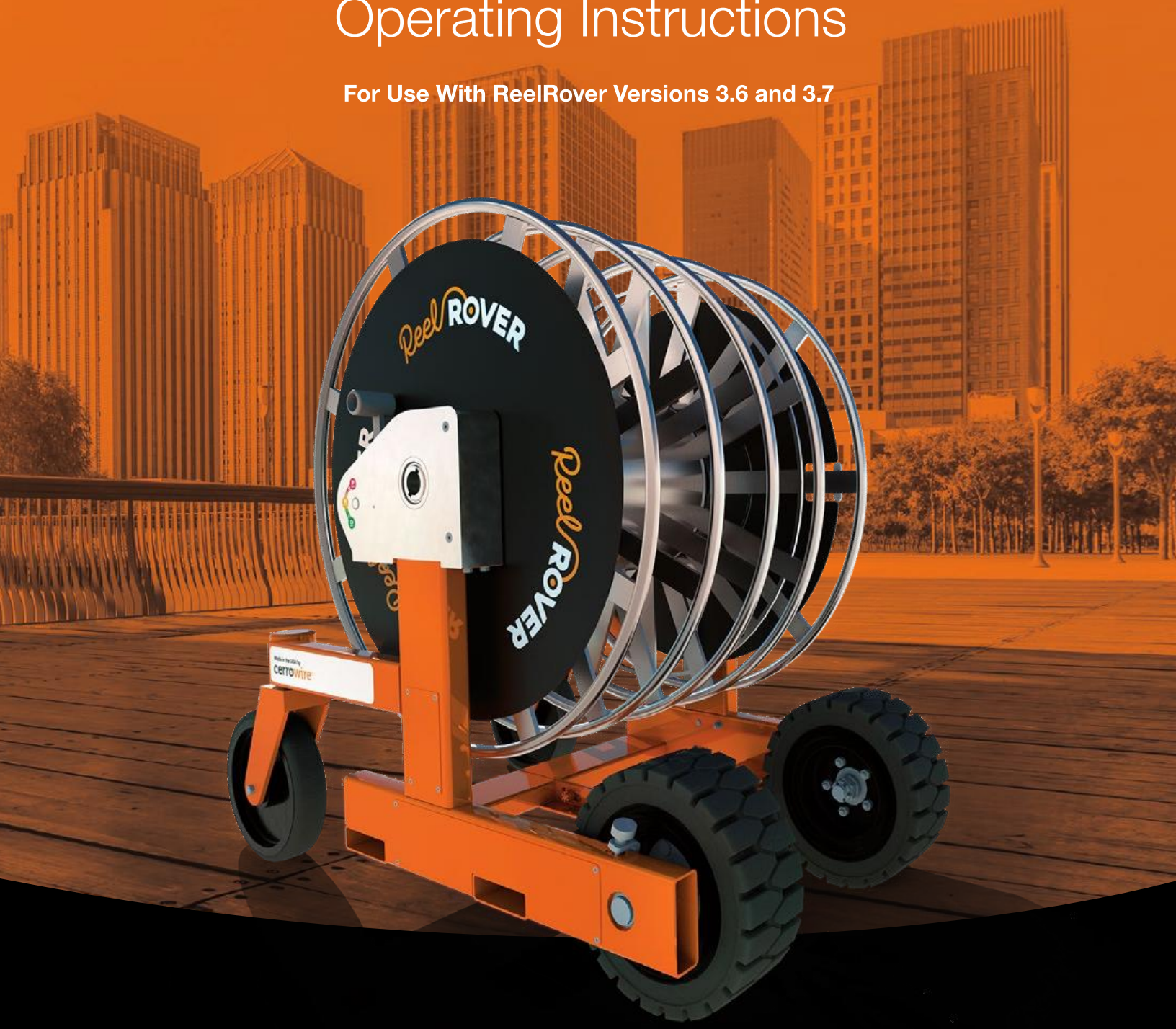
User Manual & Operating Instructions

For Use With ReelRover Versions 3.6 and 3.7



ReelROVER

MADE IN THE USA by cerrowire®

P/N: PU-USEMAN-RR37
A Marmon/Berkshire Hathaway Company

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.

Do not use ReelRover unless you have read this manual completely along with viewing the training videos. Using ReelRover without reading this manual and watching the training videos can be dangerous and could lead to injury or death.

The center of gravity of the ReelRover will vary according to the wire and how it is loaded onto the ReelRover. This must be taken into consideration when the ReelRover is moved, loaded, and unloaded on to and off of a vehicle, and while being transported.

To order a replacement user manual, contact Cerrowire at **1.800.367.2906** or email **reelrover@cerrowire.com.** Specify part number PU-USEMAN-RR36.

Revision Date	Description of Changes	Change Owner
March 2020	Initial release	Rich Hawley
April 2022	Add Lull Adaptor, take-up adaptors, warnings	Joshua East

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Components

Each ReelRover has common components as shown below:

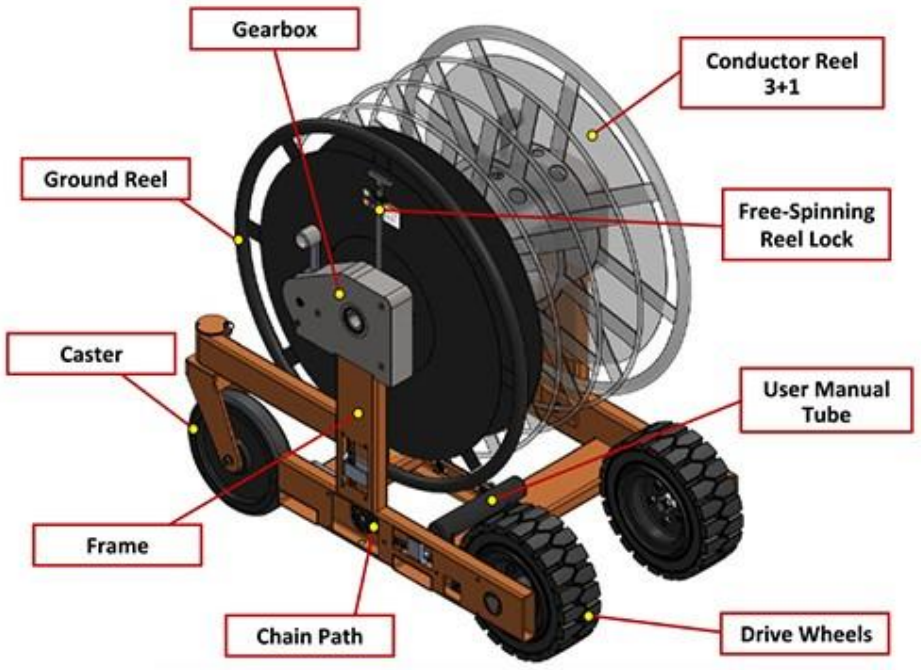


Figure 1: ReelRover 3+1 (model RR-131136)

Reel Options

Three different reel versions are available, as shown in Figure 2:

- 1+1 – ground reel and a single, large conductor reel
- 3+1 – ground reel and conductor reel divided into three sections for three different wires
- 4+1 – ground reel and conductor reel divided into four sections for four different wires

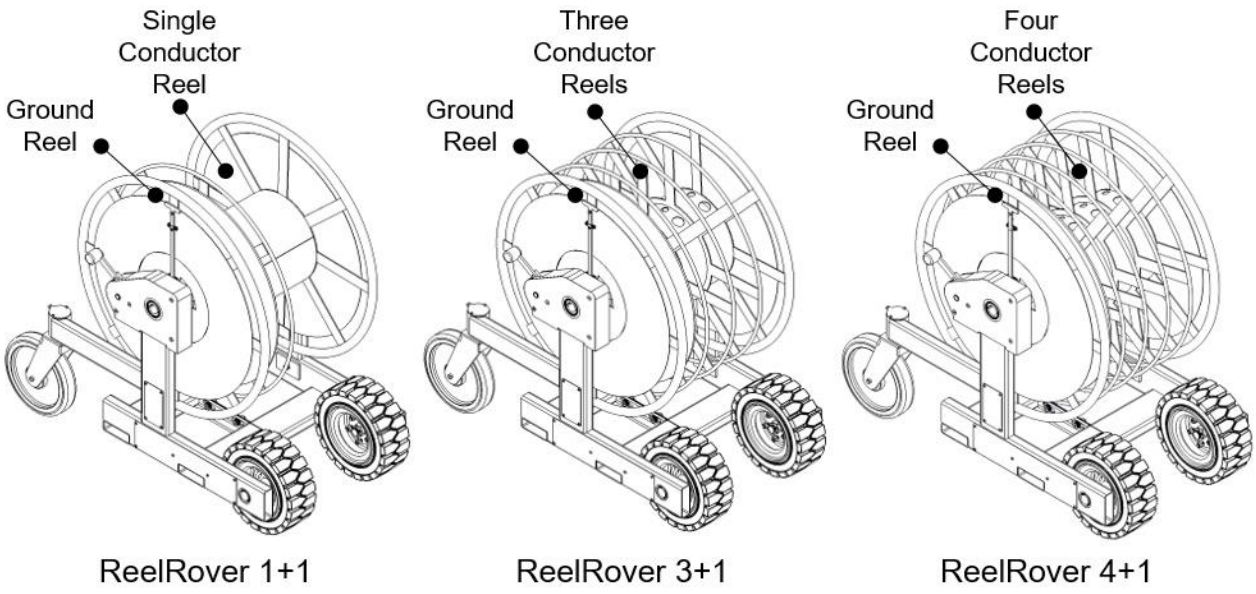


Figure 2: Reel Options

GPS Unit

A Fleet Complete Model B1-MIOT-GA GPS tracking unit is attached to each ReelRover. The units are self-sustained and do not require users to complete any tasks to function properly.

Figure 3: GPS Unit

The devices are tied to a ReelRover via the IMEI number listed on the side of the unit. Users can request tracking for their unit by providing the IMEI number located on the GPS label.

Specifications

Height	60 inches
Wheel Base Length	65 inches
Wheel Base Width	32 inches
Unloaded Vehicle Weight	700 lbs.
Total Vehicle Capacity (vehicle + wire)	2700 lbs.
Conductor Reel Capacity	1500 lbs.
Ground Reel Capacity	500 lbs.

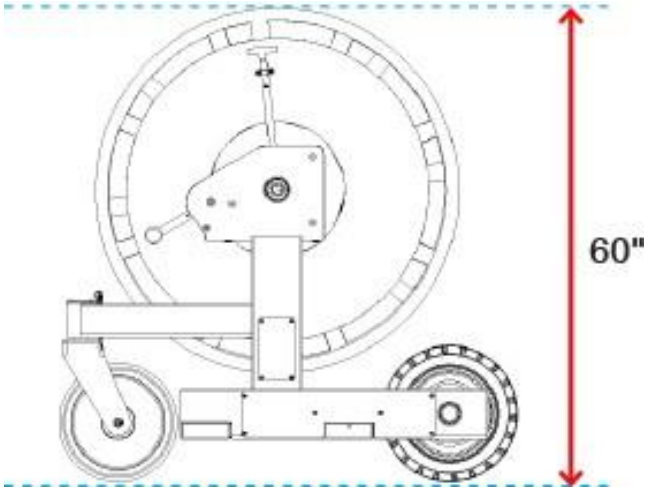


Figure 4: ReelRover Specifications Side View

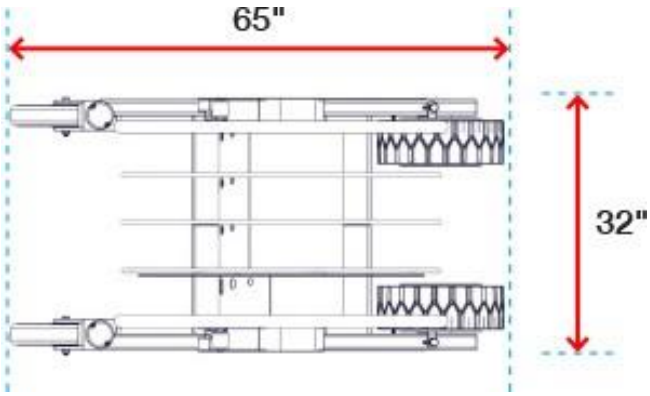


Figure 5: ReelRover Specifications Top View

Safety Procedures

The User must read and completely understand prior to using this product.

The ReelRover is designed for certain industrial/commercial applications only. Cerrowire cannot be responsible for issues arising from modification.

If you have any questions relative to a particular application, DO NOT use the ReelRover until you have contacted Cerrowire to determine if that application is appropriate for the ReelRover.

Be aware of these requirements before operating the ReelRover for any purpose:

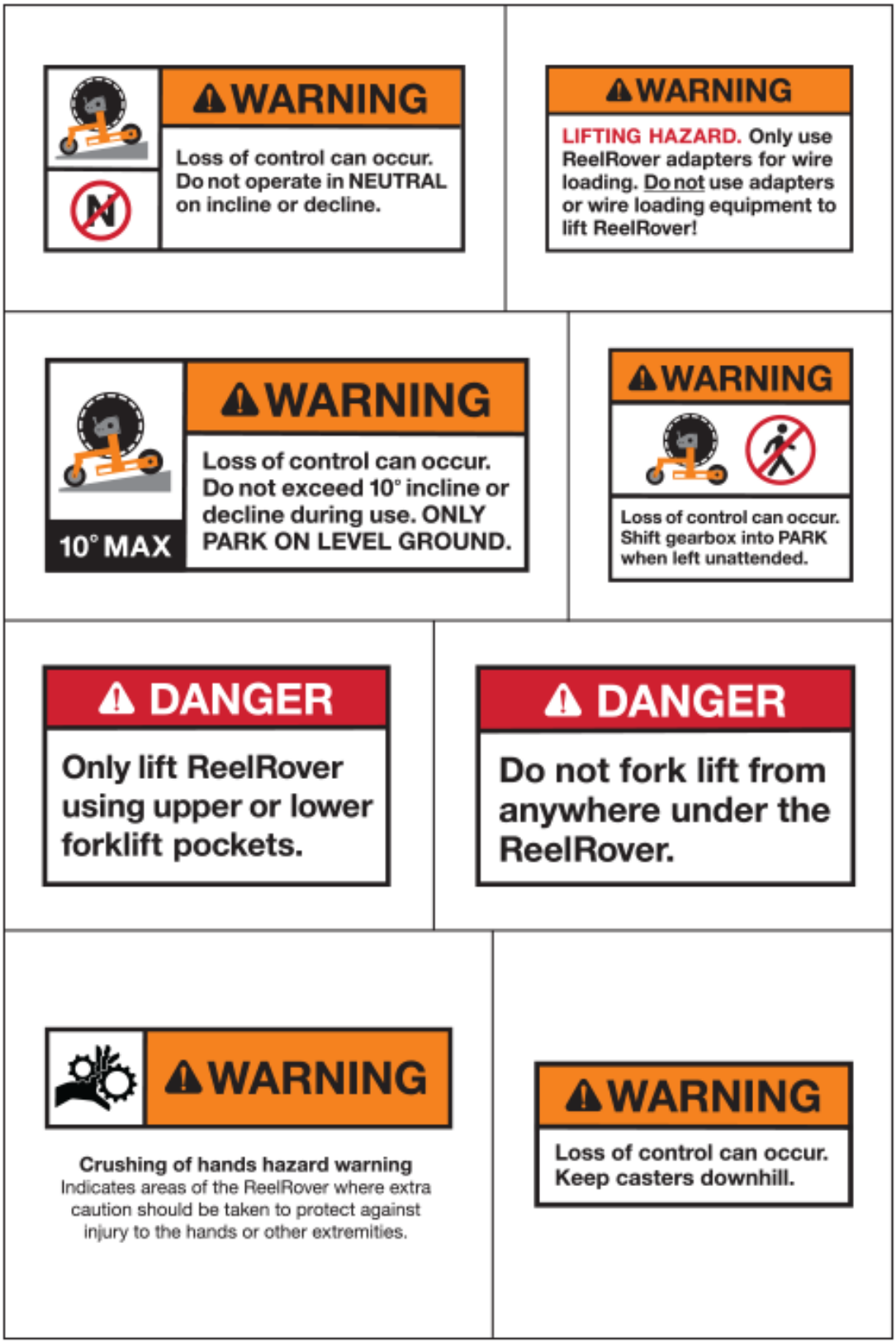
- Do not modify the ReelRover in any way.
- Do not use the ReelRover in any application other than that for which it was designed.
- Do not operate the ReelRover if damaged or not in proper working order.
- Never put your feet, hands or any other body part under the frame assembly.
- Do not leave ReelRover 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.
- Do not leave ReelRover unattended without being placed in PARK.
- Always ensure both gearboxes are in PARK when securing ReelRover for loading or 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, or allow any person to stand, sit, or attempt to ride on 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 by a qualified operator using a properly rated forklift with the forks positioned in the fork tubes as shown in this manual.
- Do not lift ReelRover using the take-up adaptors or wire loading equipment.
- Always use proper safety equipment when using ReelRover, including protective eyewear and appropriate safety footwear.
- Do not overload the ReelRover. Do not exceed the rated wire capacity of 2,000 lbs. or gross vehicle weight of 2,700 lbs.

WARNING: OVERLOADING A REELROVER MAY RESULT IN DEATH OR INJURY.

- Use only ReelRover take-up adaptors for wire loading.
- The ReelRover center of gravity will vary according to the wire and how it is loaded. This must be taken into consideration when the ReelRover is moved, loaded onto or unloaded from a vehicle, and while being transported.

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

Warnings


WARNING
Loss of control can occur. Do not operate in NEUTRAL on incline or decline.
N
WARNING
LIFTING HAZARD. Only use ReelRover adapters for wire loading. Do not use adapters or wire loading equipment to lift ReelRover!
WARNING
Loss of control can occur. Do not exceed 10° incline or decline during use. ONLY PARK ON LEVEL GROUND.
10° MAX
WARNING
Loss of control can occur. Shift gearbox into PARK when left unattended.
DANGER
Only lift ReelRover using upper or lower forklift pockets.
DANGER
Do not fork lift from anywhere under the ReelRover.
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. Keep casters downhill.

NOTICE

MAX wire weight = 2,000 lbs (970 kg)	Gross vehicle weight = 2,700 lbs (1,225 kg)

NOTICE

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

www.cerrowire.com/reelrover-manual

FORKLIFT HERE ONLY

⚠ WARNING

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

⚠ DANGER

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

⚠ DANGER

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.

⚠ DANGER

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 Operation

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 6.

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 7, 8, and 9.

CAUTION: Do not shift gears when the ReelRover is in motion. Changing a gearbox setting while the machine is in motion will damage the gearbox.

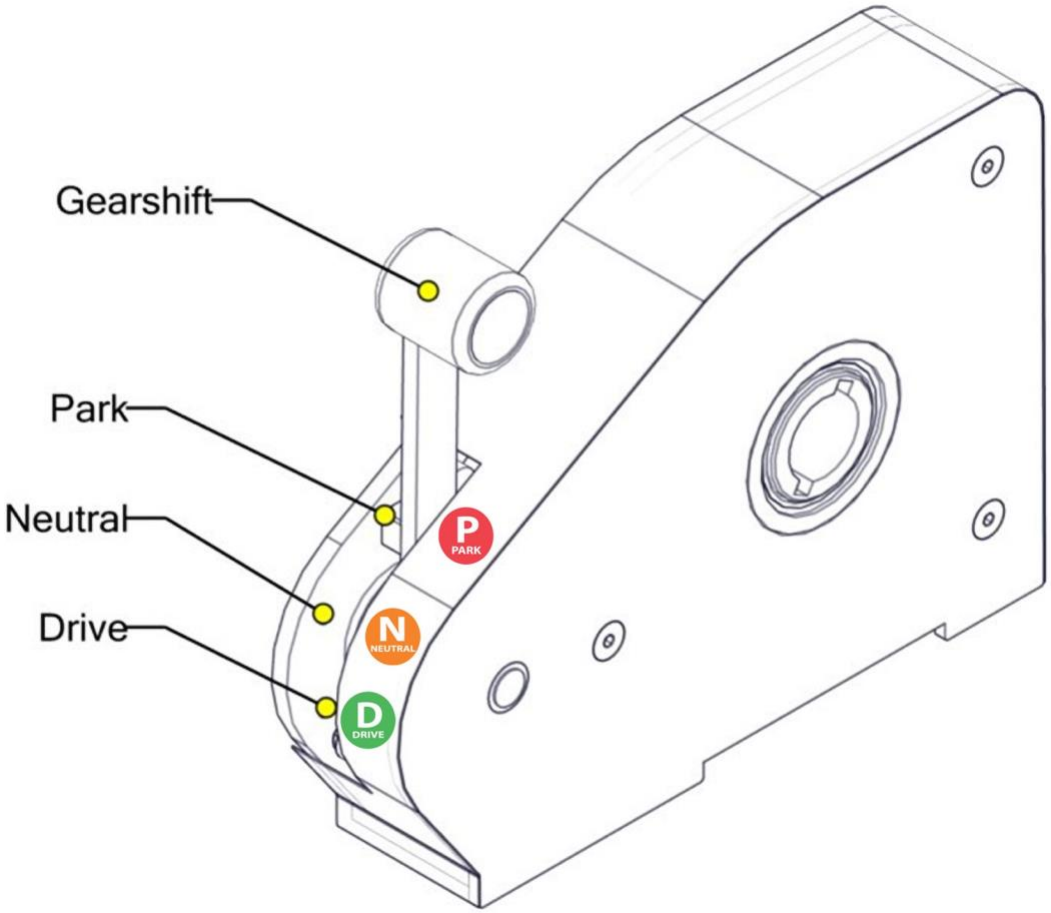


Figure 6: Gearbox Settings

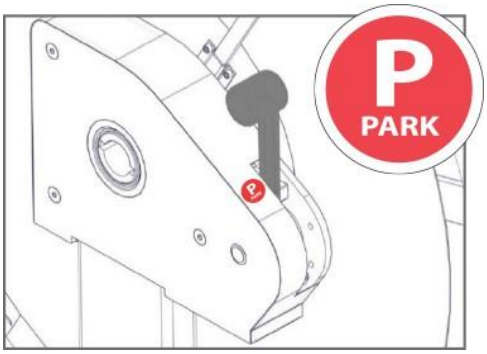


Figure 7: Gearshift in PARK

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

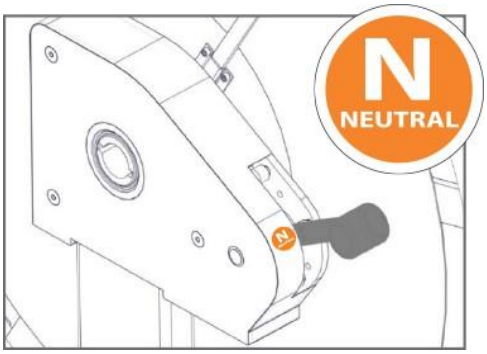


Figure 8: Gearshift in NEUTRAL

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

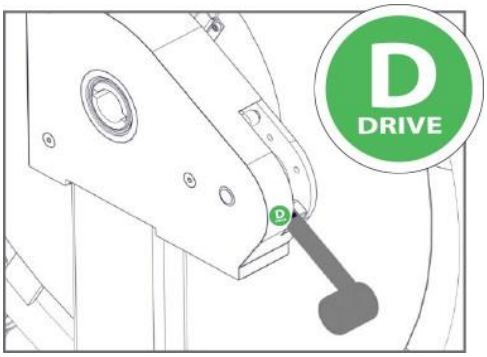


Figure 9: Gearshift in DRIVE

DRIVE (D)

- Reel rotation drives the motion of the ReelRover in the same direction of reel rotation, either forwards or backwards
- Drive Wheel rotation is controlled by the speed and direction of reel rotation. Three rotations of the reel equals about one rotation of the drive wheels (3:1 gear ratio)
- Uses:
    - Control ReelRover down an incline
    - Mechanical advantage up an incline
    - Going over obstacles, such as job site debris, not to exceed 1.5 inches in height

Driving the ReelRover

Operating in PARK

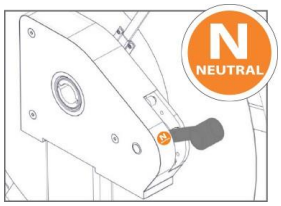
When both gearboxes are placed in PARK, as shown in Figure 7, neither drive wheel will be able to rotate, effectively locking the ReelRover in position. The reel is still able to turn freely, allowing wire to be loaded or unloaded without the ReelRover moving.

Operating in NEUTRAL

When both gearboxes are placed in NEUTRAL, as shown in Figure 8, 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.



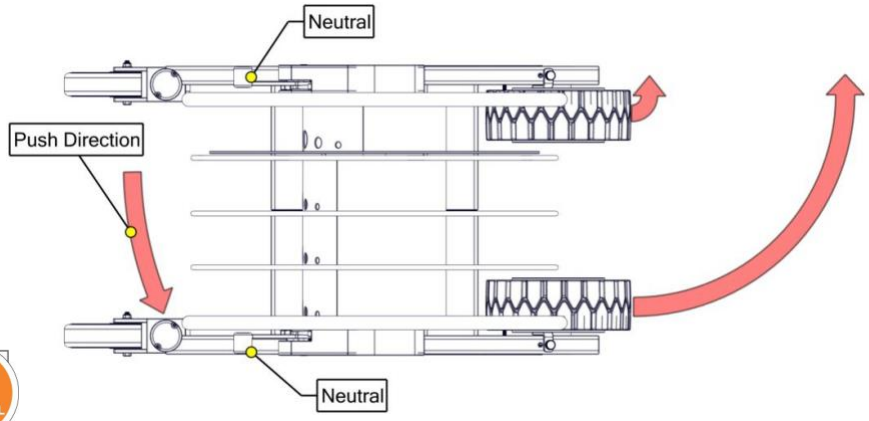


Figure 10: Sharp Turn in NEUTRAL

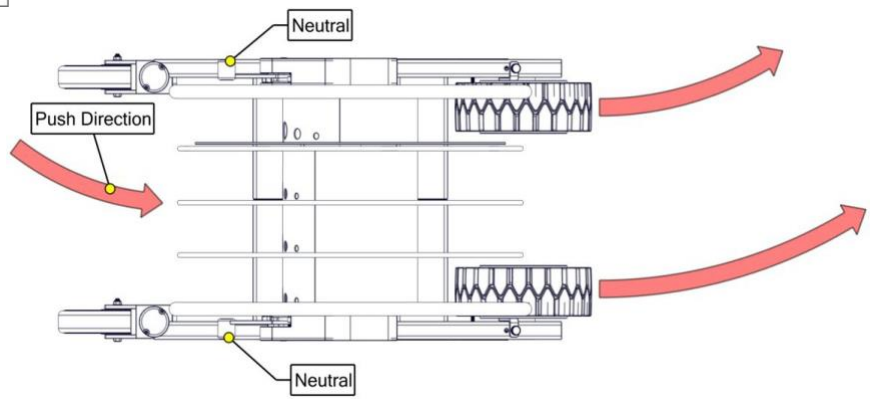


Figure 11: Gradual Turn in NEUTRAL

Operating in DRIVE

When both gearboxes are placed in DRIVE, as shown in Figure 9, the reel rotation is locked to the drive wheels with a gear reduction, as shown in Figure 12. 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.

WARNING: Do not stand or sit on any part of the ReelRover, or allow any person to stand, sit, or attempt to ride on the ReelRover.

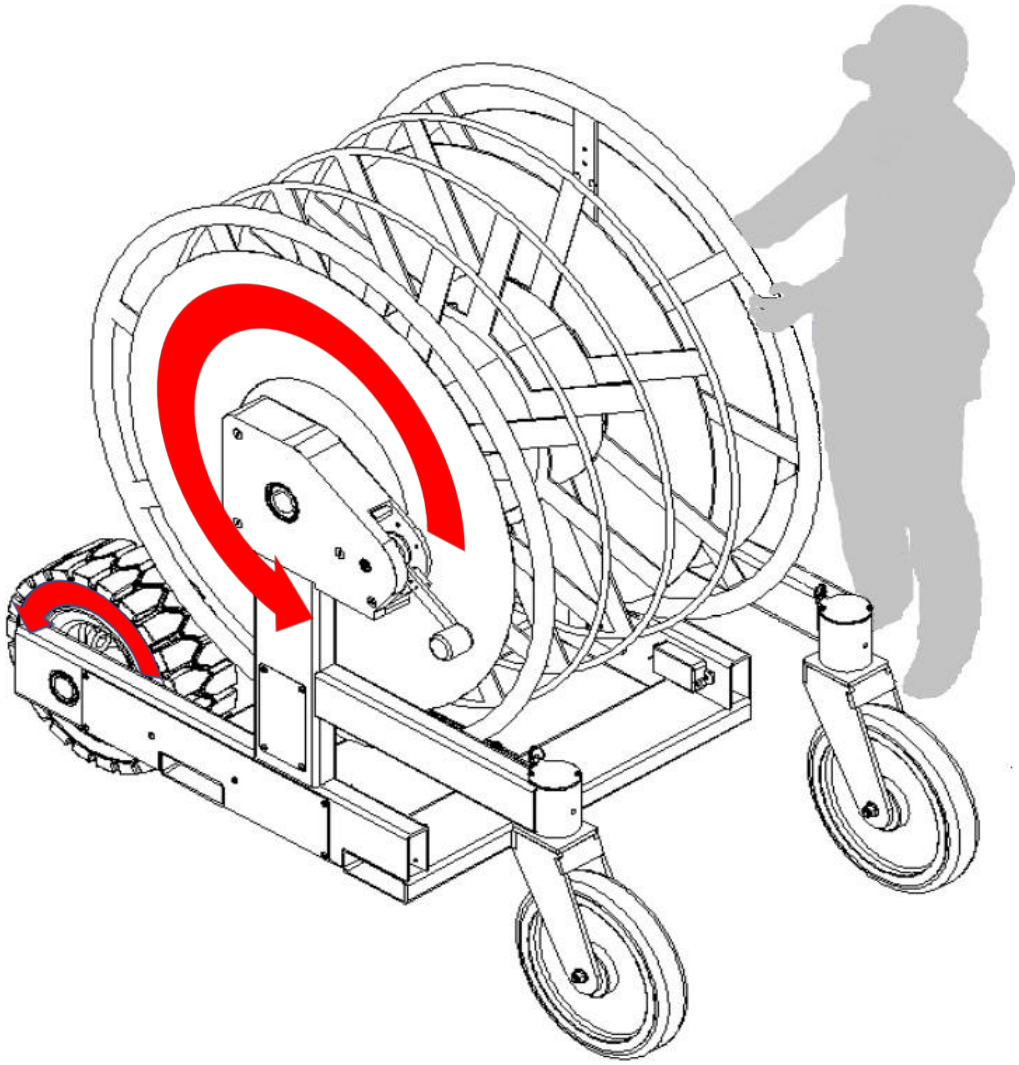


Figure 12: Reel and Drive Wheel Rotation

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).

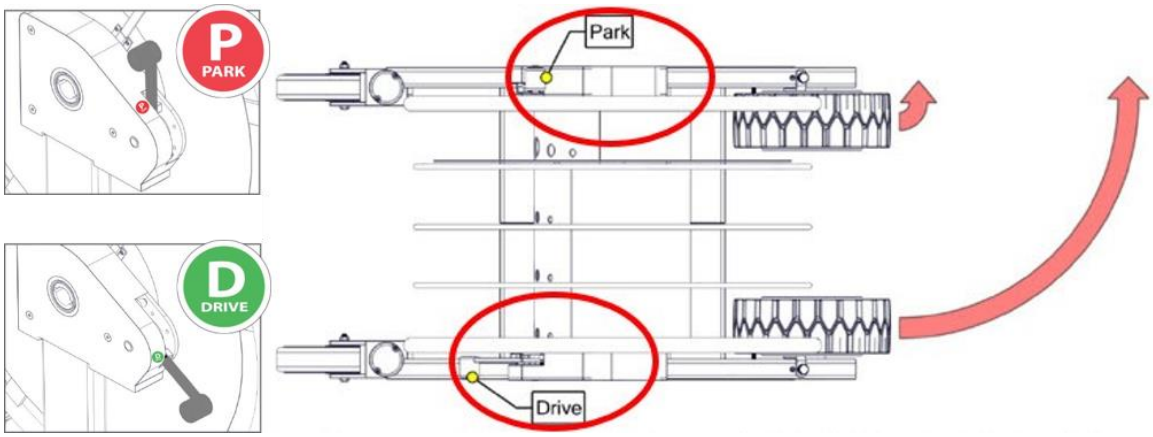


Figure 13: Sharp Turn in DRIVE

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.

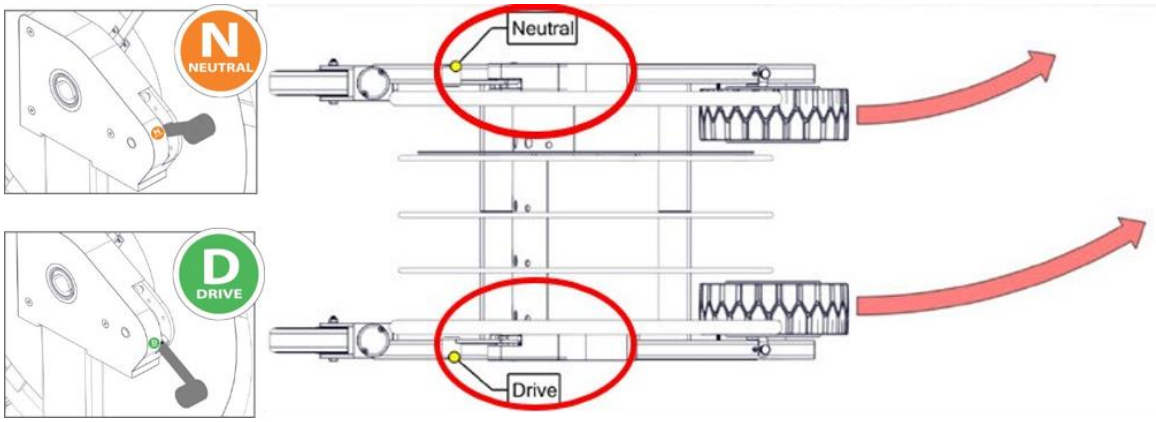


Figure 14: Gradual Turn in DRIVE

Operating in DRIVE on Incline or Decline

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

Potential Hazards:

- There is a danger of tip over when traveling on inclines and declines.
- Falling off the edge of an incline or decline.
- Skidding or slipping due to wet or icy conditions.
- Allowing free descent on a decline may result in an out-of-control descent, tipping over, or collision with people or objects.

Warnings and Recommended Practices:

WARNING: NEVER ALLOW FREE DESCENT ON A DECLINE. ALWAYS PLACE THE REELROVER IN DRIVE ON FLAT GROUND AND CONTROL THE UNIT DURING DESCENT.

WARNING: THE REELROVER SHOULD NEVER BE OPERATED ON AN INCLINE OR DECLINE WITH AN ANGLE GREATER THAN 10° AS SHOWN IN FIGURE 15.

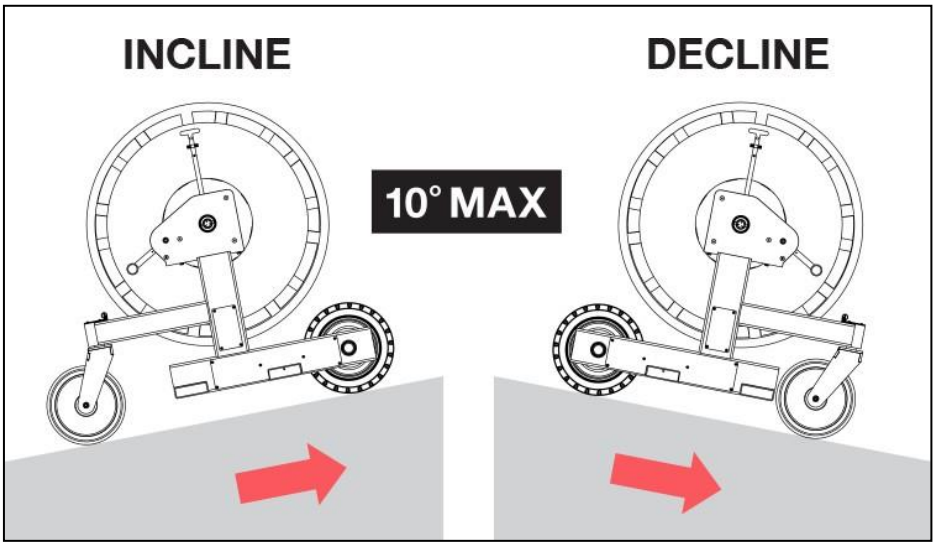


Figure 15: Caster Wheels Trail on Incline and Lead on Decline

WARNING: NEVER STAND OR WALK DIRECTLY BEHIND THE REELROVER ON AN INCLINE, AS SHOWN IN FIGURE 16. OPERATOR SHOULD WALK TO THE SIDE OF THE REELROVER.

Figure 16: Never Stand or Walk Behind ReelRover on an Incline

WARNING: NEVER TURN THE REELROVER ON AN INCLINE OR DECLINE. AIM REELROVER AND SET THE GEARBOXES TO DRIVE ON A LEVEL SURFACE SO THAT REELROVER MAY MOVE STRAIGHT UP OR DOWN A RAMP.

- Always look in the direction of travel.
- Ensure the caster wheels trail on an incline and lead on a decline as shown in Figure 15.
- Maintain a safe distance from the edge of an incline or decline.
- Keep working surfaces clear and clean.

Free-Spinning 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 17. This allows for simultaneous loading and unloading of smaller gauge ground wire with the conductor wire, without the need for reel disassembly.

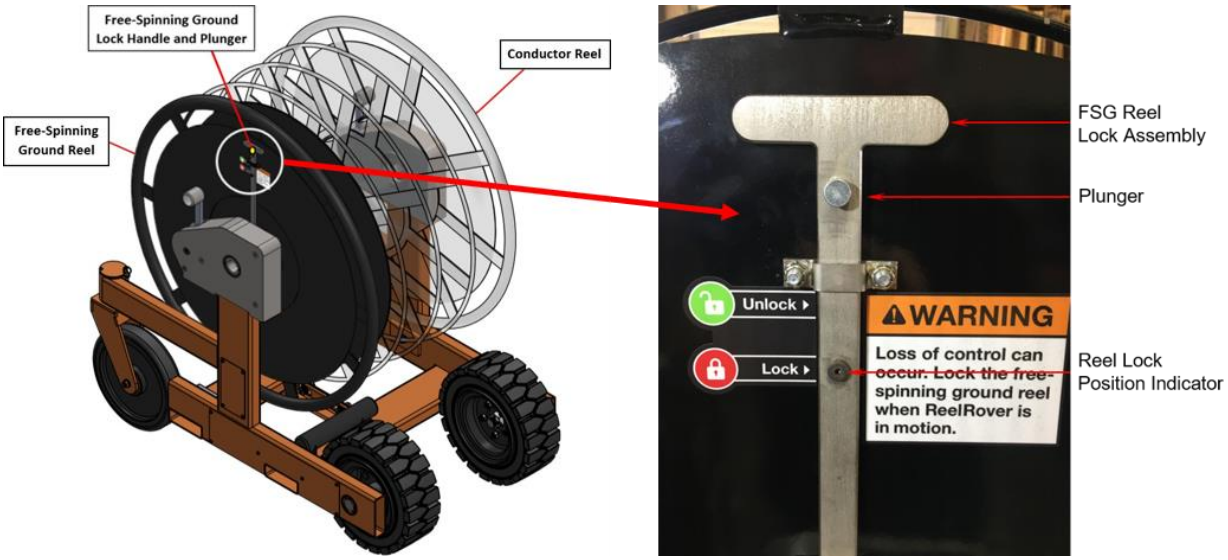


Figure 17: Reel Lock

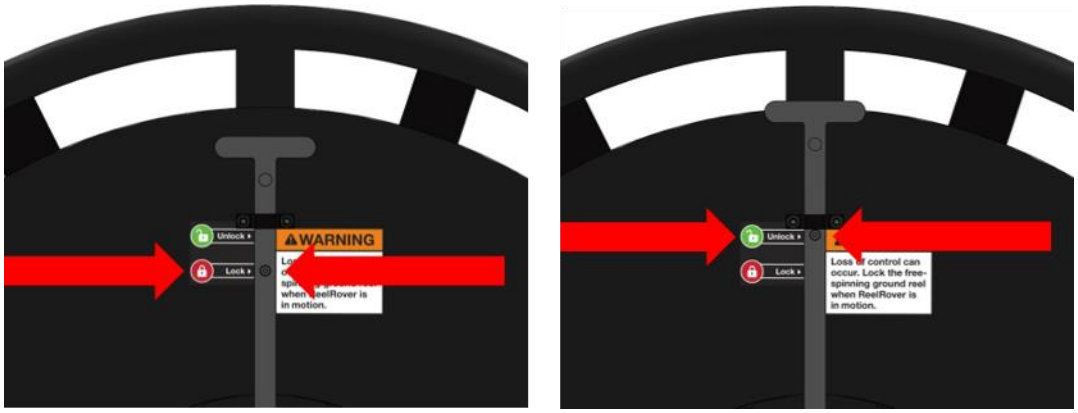


Figure 18: Free-Spinning Reel Locked (left) and Unlocked (right)

Lock the Free-Spinning Ground Reel

The Free-Spinning Ground Reel should be rotationally locked to the Conductor Reel to load ground wire with conductor wire, and when operating ReelRover in DRIVE or NEUTRAL.

NOTE: Ensure both gear selectors are placed in the PARK position.

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

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

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.

Figure 19: Free-Spinning Reel Lock Procedure

Unlock the Free-Spinning Ground Reel

Once unlocked, the Free-Spinning Ground Reel is free to spin independently of the Conductor Reel for even payout of ground wire with conductor wires.

NOTE: Ensure both ReelRover gear selectors are placed in the PARK position.

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

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

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.

Figure 20: Free-Spinning Reel Unlock Procedure

Wire Take-up Process

The ReelRover may be used with four different wire take-up machines, and there is a take-up adaptor required for each. The use of each take-up adaptor is described below with the associated take-up machine.

Regardless of the take-up machine used, do not exceed the ReelRover weight limits.

WARNING: OVERLOADING THE REELROVER MAY CAUSE SERIOUS INJURY OR DEATH! DO NOT EXCEED THE WEIGHT LIMITS – MAXIMUM WIRE LOAD CAPACITY IS 2000 LBS. TOTAL VEHICLE WEIGHT LIMIT IS 2700 LBS.

Inspect Left Gearbox Securing Bolt

The bolt visible in the ReelRover left gearbox hub, shown in Figure 21, secures the gearbox to the reel. It is possible for the bolt head to be damaged by the take-up adaptor if the ReelRover has suffered a separated gearbox-to-reel assembly.

Before every use of the ReelRover with a wire take-up machine, inspect the left gearbox bolt head to check for gearbox-to-reel separation. This inspection is also part of the daily Equipment Inspection Checklist (see Equipment Inspection Prior to Use).

This inspection applies to all ReelRover models.

All personnel moving and/or operating the ReelRover must be trained and aware of this warning, and must properly inspect the ReelRover for a damaged bolt which may indicate a separated gearbox-to-reel assembly.

WARNING: USE OF REELROVER WITH A SEPARATED GEARBOX-TO-REEL ASSEMBLY FOR WIRE TAKE-UP OPERATION IS EXTREMELY DANGEROUS AND MAY RESULT IN INJURY OR DEATH.

Figure 21: Left Hand Gearbox Securing Bolt

Undamaged Bolt Head

An intact securing bolt with no markings, gouges, or other damage to the head, as shown in Figure 22, can remain in normal use. Complete the Equipment Inspection Checklist on a daily basis before use.

Figure 22: Undamaged Securing Bolt Head

Damaged Bolt Head

A marked, gouged, defaced, or otherwise damaged bolt head surface of the left gearbox securing bolt, as shown in Figure 23, is an indicator of a separated gearbox-to-reel assembly.

If any ReelRover is found with a damaged securing bolt, complete the ReelRover Lock-out Procedure and notify Cerrowire. The ReelRover must remain LOCKED-OUT until inspection and review by Cerrowire have been completed.

Figure 23: Damaged Bolt Head

ReelPower STU Shaftless Take-Up Machine

To load wire onto the ReelRover with shaftless take-up equipment requires the use of right- and left-hand adaptors. Use the following procedure to safely load the ReelRover.

WARNING: NEVER USE THE TAKE-UP EQUIPMENT AND ADAPTORS TO LIFT THE REELROVER AS IT MAY RESULT IN SERIOUS INJURIES.

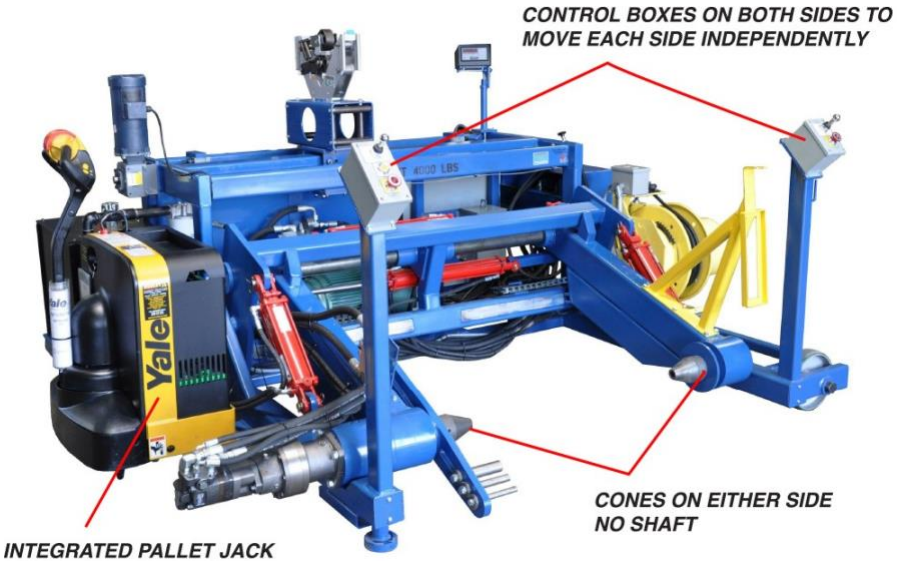


Figure 24: ReelPower STU Shaftless Take-up Machine

Insert Take-up Adaptor

The take-up adaptor is used as an attachment point for the wire take-up machine, and ensures the gearbox and winding machine are aligned. Align the key and insert the flanged adaptor into the gearbox on the side of the take-up machine motor, as shown in Figures 25 and 26.

Figure 25: ReelPower STU Take-up Adaptor

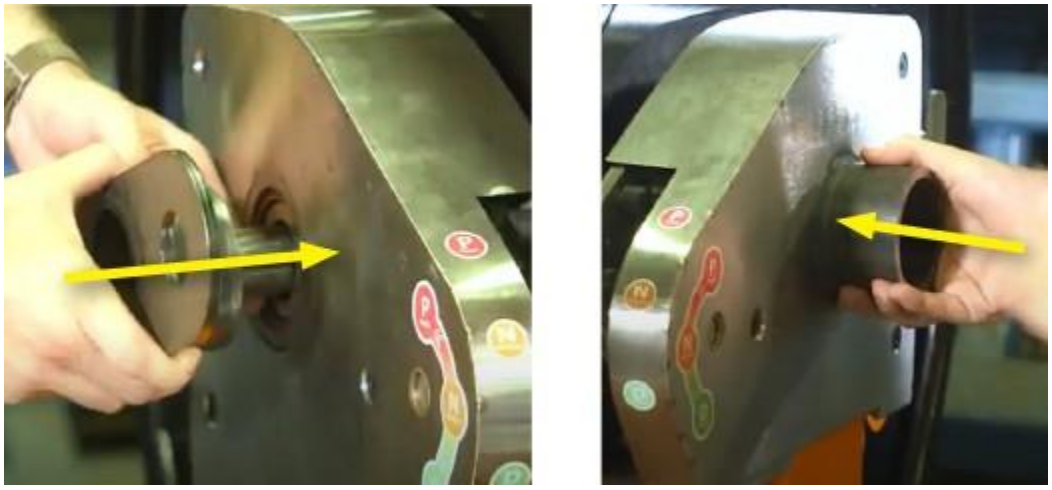


Figure 26: Take-up Adaptor Insertion (left and right sides)

Position ReelRover

Position ReelRover into the ReelPower STU shaftless take-up machine as shown in Figure 27, using either the DRIVE or NEUTRAL settings.

Figure 27: Position ReelRover into the Shaftless Take-up Machine

Align the centerline of the winding machine cone on each side with the centerline of the take-up adaptor's outer bore, as shown in Figure 28.

Figure 28: Centerline Alignment of Machine Cone with Outer Bore of Take-up Adaptor

Align the take-up machine's engagement pin with the adaptor's outer hole, as shown in Fig. 29 & 30.

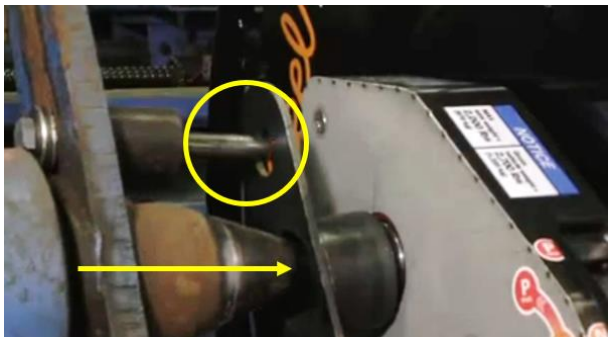


Figure 29: Align ReelRover and Take-up Machine Centerline and Drive Pin

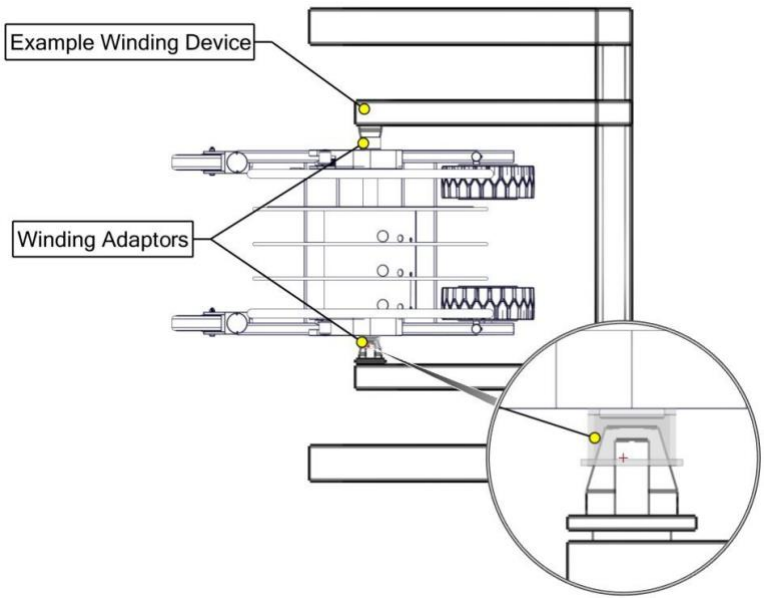


Figure 30: Align ReelRover Adaptors with Take-up Machine Cones

Set Gearbox to PARK

Once the ReelRover is in position and the take-up machine's centerline is aligned with the ReelRover take-up adaptor, set both gearboxes to PARK as shown in Figure 31 to ensure that the ReelRover gearboxes are free spinning during loading of the wire onto the reel.

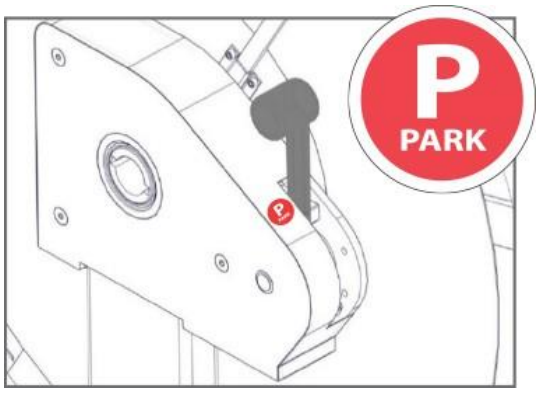


Figure 31: Gearshift in PARK

Operate the take-up machine as outlined in the manufacturer's machine manual.

Wemco 2800-series Shafted Take-up Machine

To load wire onto the ReelRover with shafted take-up equipment requires removal of the take-up machine shaft, and use of a left-hand take-up adaptor. Use the following procedure to safely load the ReelRover.

WARNING: NEVER USE THE TAKE-UP EQUIPMENT AND ADAPTOR TO LIFT THE REELROVER AS IT MAY RESULT IN SERIOUS INJURIES.

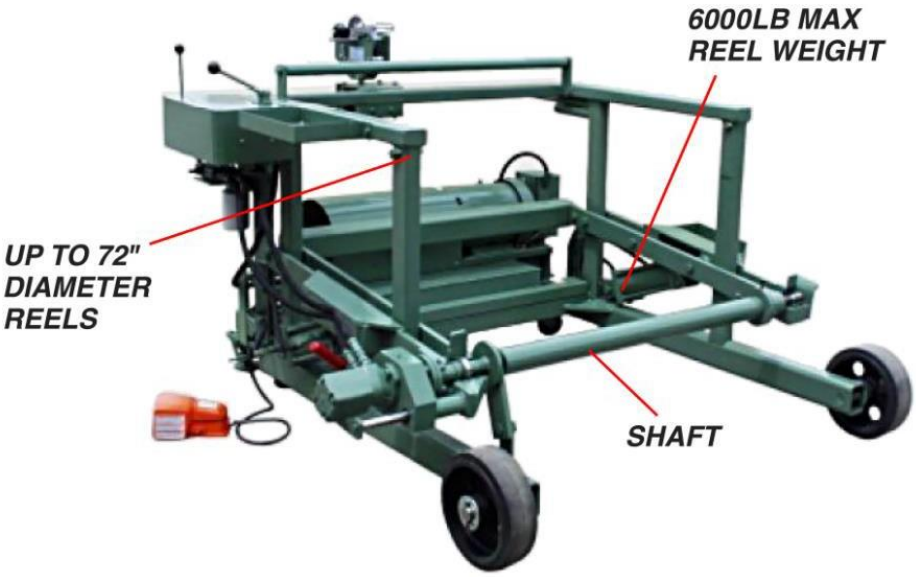


Figure 32: Wemco 2800 Shafted Take-up Machine

Remove Shaft and Insert Take-up Adaptor

Remove the shaft from the take-up machine (Figure 32) according to the manufacturer's instructions. Insert the take-up adaptor into the ReelRover's left-side gearbox and take-up machine as shown in Figures 33 and 34.

Figure 33: Insert Take-up Adaptor

Position ReelRover into Take-up Machine

With the take-up machine shaft removed, use either NEUTRAL or DRIVE settings to position the ReelRover into the take-up machine (Figure 34).

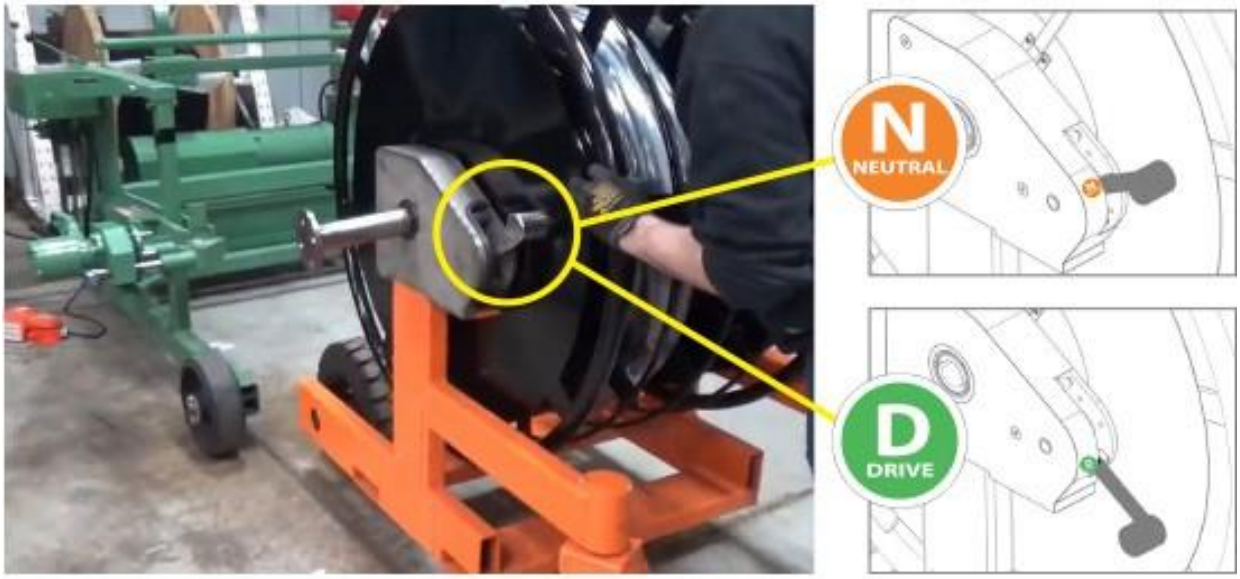


Figure 34: Use NEUTRAL or DRIVE to Position ReelRover into Take-up Machine

Align the take-up machine's centerline with the adaptor centerline as shown in Figure 35.

Figure 35: Align Take-up Adaptor with Take-up Machine Spindle Drive

Align the Wemco 2800 take-up machine's drive pins on the shaft fitting with the mating holes of the take-up adaptor as shown in Figure 36.

Figure 36: Align Drive Pins with Take-up Adaptor Holes

Once aligned, slide the machine's spindle drive in the direction of the arrow and make sure its pins are fully engaged with the holes in the take-up adaptor as shown in Figure 37.

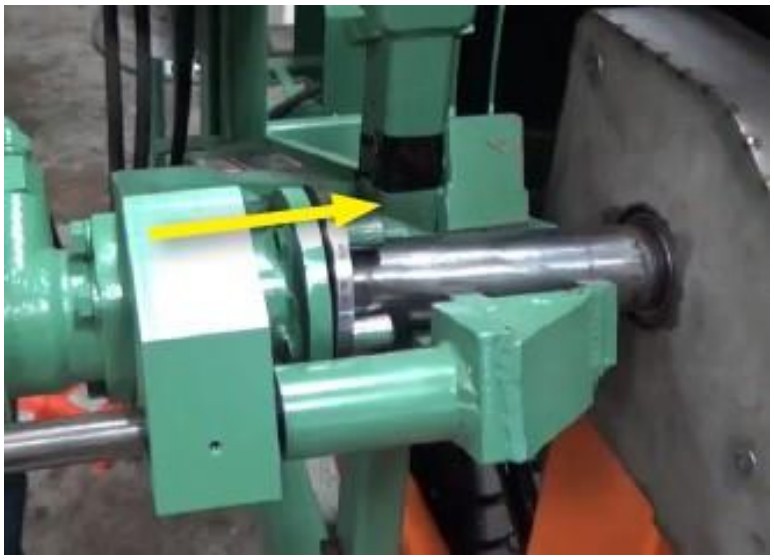


Figure 37: Slide Spindle Drive Pins in Take-up Adaptor Holes

Set Gearbox to PARK

Once the ReelRover is in position and the take-up machine's centerline is aligned with the ReelRover take-up adaptor, set both gearboxes to PARK as shown in Figure 38 to ensure that the ReelRover gearboxes are free spinning during loading of the wire onto the reel.

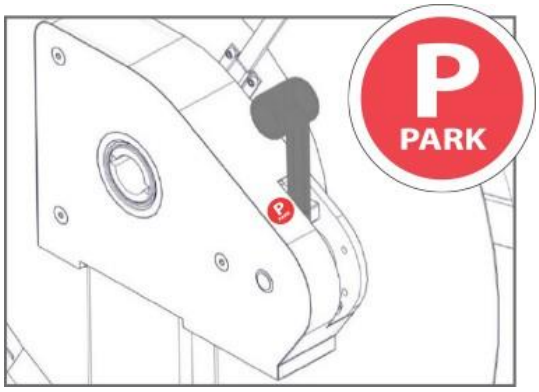


Figure 38: Gearshift in PARK

Operate the take-up machine as outlined in the manufacturer's machine manual.

Graham H8T20 Take-up Machine

This adaptor is a straight shaft, square drive adaptor which allows for the ReelRover to be loaded using the Graham H8T20 take-up machine.

Figure 39: Graham H8T20 Take-up Machine

NOTE: This adaptor was designed and tested on the Graham H8T20 unit and is not intended for, nor validated, on any other Graham H8T series equipment.

Graham H8T20 take-up machine: www.reelingsystems-gi.com/h8t-series

The process of using the H8T20 adaptor (Figure 40) is identical to the process utilized for the Wemco 2800 adaptor. See Wemco 2800-series Shafted Take-up Machine.

Figure 40: Take-up Adaptor for Graham H8T20

Operate the Graham H8T20 take-up machine as outlined in the manufacturer's machine manual.

Wemco 2500 Take-up Machine

This adaptor (below left) is an offset gearbox which allows for the ReelRover to be loaded using the Wemco 2500 take-up machine.

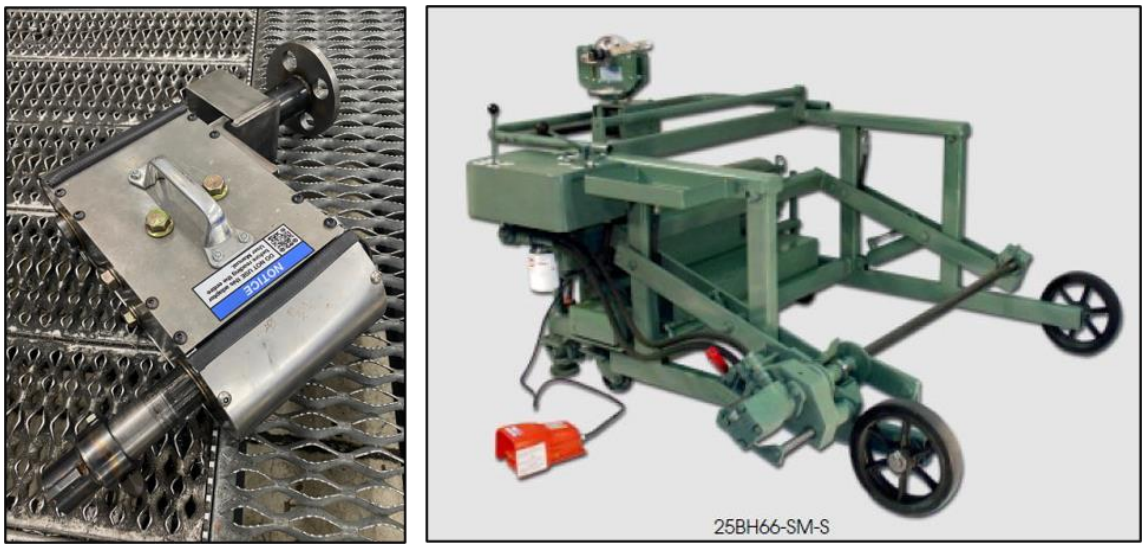


Figure 41: Wemco 2500 Take-up Machine and Adaptor

CAUTION: FULLY REVIEW WEMCO 2500 AND REELROVER USER MANUALS PRIOR TO INSTALLING ADAPTER

Set up ReelRover in Wemco 2500

To install the ReelRover adapter into a Wemco 2500:

1. Set all operating levers to “Neutral” or “Off” position
2. Disconnect the Wemco 2500 from its power source
3. Remove the Wemco 2500 shaft
4. Remove the locating block from the Wemco 2500 (Figure 42)
5. Release the motor slide lock and slide the motor to its fully open position
6. Place the adapter into the shaft bearing block mount:
   - Slide the motor forward while aligning the motor pins to the adaptor holes
   - Lock the motor position (Figure 43, left)
   - Thread the wing nut onto the threaded rod of the adapter mounting block until snug (Figure 43, right)

Figure 42: Remove Locating Block

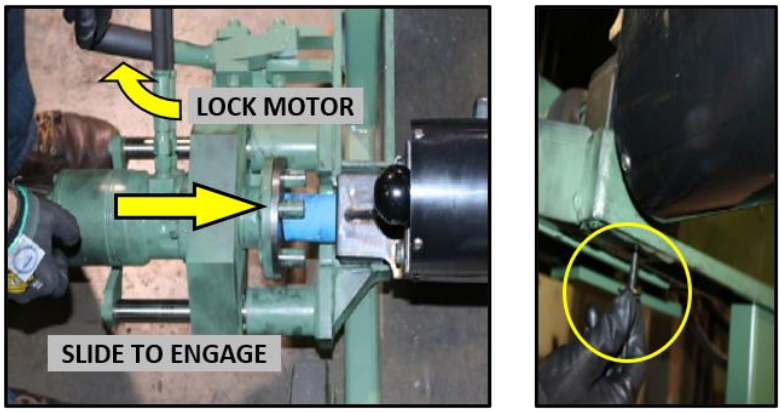


Figure 43: Engage the Motor

7. Lock out the output shaft (Figure 44):
    - Pull the black knob to retract the output shaft
    - Insert the retaining pin into the now visible hole through the shaft
    - Release the knob

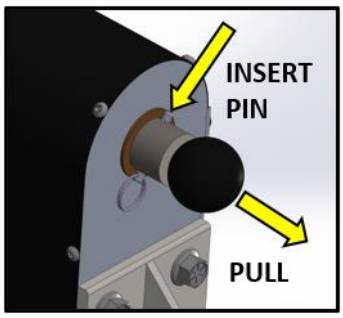


Figure 44: Lock the Output Shaft

8. Orient the ReelRover so the casters enter the Wemco 2500 first (Figure 45, left). The ReelRover gearbox should just clear the outer edge of the output shaft (Figure 45, right)

Figure 45: Align ReelRover

9. Push the ReelRover fully into the take-up bay. Insert the caster locking pins and place both shift levers into the PARK position

WARNING: DO NOT ENTER THE TAKE-UP BAY AT ANY TIME.

10. Reconnect the Wemco 2500 power source
11. Raise the reel lift so the male connector on the adapter output shaft is in line with the female hub of the ReelRover (Figure 46)

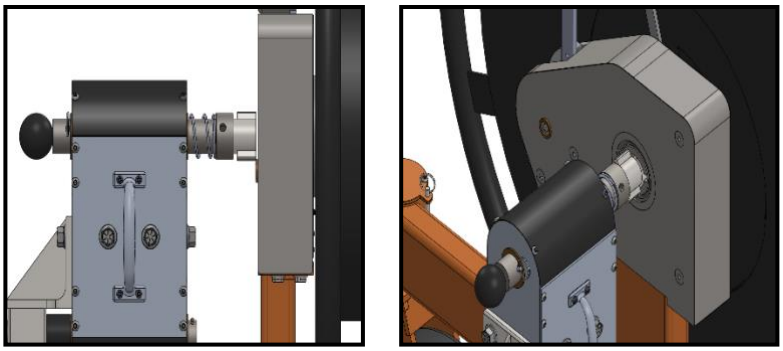


Figure 46: Align Shaft and Hub

12. Pull out the black knob and remove the retaining pin from the adapter output shaft
13. Guide the male connector into the female hub of the ReelRover (Figure 47)
    - If misaligned, rotate the reel of the ReelRover until alignment is reached
    - Ensure that the connector is fully seated and is in line with the mating hub
    - Angled connections may result in premature wear, failure, or injury

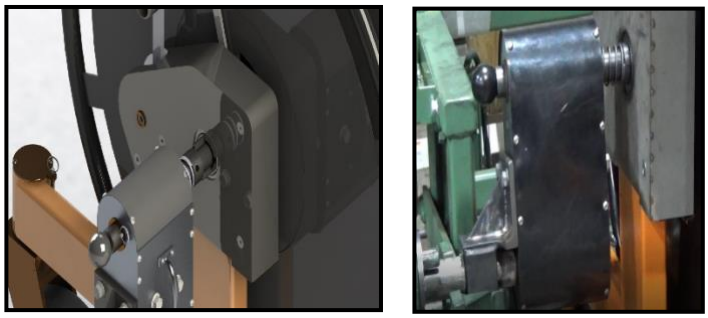


Figure 47: Connect Shaft and Hub

14. Engage Wemco 2500 reel lift lock (Figure 48)

Figure 48: Engage Reel Lift Lock

15. Operate the Wemco 2500 take-up machine as outlined in the manufacturer's machine operating instructions: www.wemco-usa.com/catalog/sections/takeup_machines/instr_3.html

Remove ReelRover Adapter from Wemco 2500

1. Disconnect the Wemco 2500 from its power source
2. Release the motor slide lock and slide the motor to disengage the adapter (Figure 49, left)

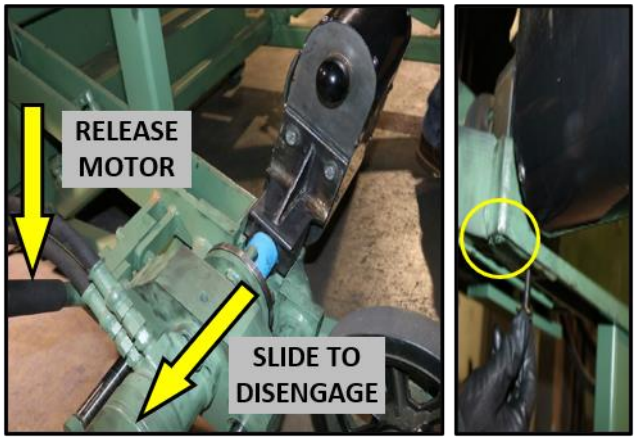


Figure 49: Disengage the Adaptor

3. Remove the wing nut from the threaded rod of the adapter mounting block (Figure 49, right)
4. Pull out black knob and insert retaining pin (Figure 50)

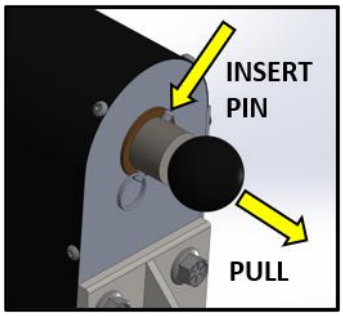


Figure 50: Insert Retaining Pin

5. Lift adapter out of Wemco 2500

Wire Unloading (Payout)

To unload wire from the ReelRover as shown in Figure 51, follow normal operating procedures to position the ReelRover in the desired location. Once in position, set both gearboxes to PARK, as shown in Figure 7, to ensure that the ReelRover will not move.

Unlock the free-spinning ground lever by pulling the silver plunger on the lever and sliding the lever to the “unlock” position. Release the plunger into its new location.

WARNING: SHOCK HAZARD. NEVER TOUCH THE REELROVER WHILE COMPLETING A LIVE-PULL INTO AN ENERGIZED SYSTEM.

Figure 51: ReelRover in PARK for Wire Payout

Transportation and Shipping

The ReelRover center of mass should always be along the centerline of the reel; however, the center of gravity may vary according to the wire and how it is loaded. This must be taken into consideration when the ReelRover is moved, loaded onto and unloaded from a vehicle, and while being transported.

WARNING: ONLY LIFT REELROVER USING UPPER OR LOWER FORKLIFT POCKETS. LIFTING THE REELROVER WITH FORKS BELOW THE FRAME OR LULL ADAPTER, OR IN ANY MANNER OTHER THAN WITH THE FORKS IN THE FRAME OR ADAPTER POCKETS, IS EXTREMELY DANGEROUS AND MAY RESULT IN INJURY OR DEATH.

The only safe, approved method to lift ReelRover is with a forklift, and the forks must be positioned in the forklift tubes designed into the frame as shown in Figures 52 and 53, or into the lull adapter attached beneath the frame shown in Figure 52.

WARNING: DO NOT ATTEMPT TO USE A STRAP OR CHAIN IN ANY MANNER TO LIFT OR HOIST REELROVER. THERE IS NO SAFE WAY TO MAINTAIN CONTROL AND BALANCE OF THE MACHINE IF LIFTED USING A STRAP OR CHAIN.

Forklift Locations

The ReelRover may be lifted from either side, and must only be lifted using a fork lift as shown in Figure 52. Do not attempt to lift the ReelRover by any other method.

WARNING: IF THE FORK LIFT FORKS ARE POSITIONED ANYWHERE OUTSIDE THE PROVIDED TUBES SHOWN BELOW, THE REELROVER IS LIABLE TO SLIDE OR SHIFT AND FALL, WHICH MAY RESULT IN INJURY OR DEATH.

Figure 52: Forklift Tube Locations

Fork lift tubes are designed into the frame of the standard ReelRover (Figure 52, left). If using a fork lift with narrow, standard forks, the forks must be positioned into the provided fork tubes (Figure 53).

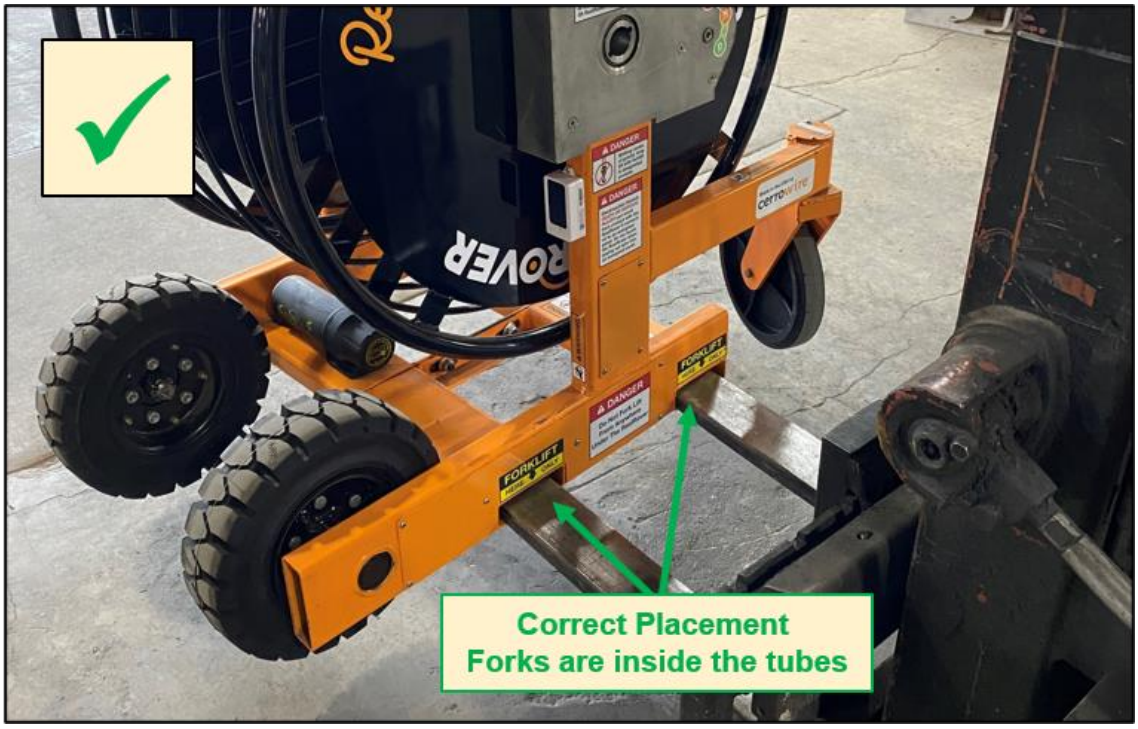


Figure 53: Forks Correctly in Tubes

An optional Lull Adapter has been added to some ReelRover units (Figure 52, right) which allow use of a fork lift with wide lull blades. Position the lull forks only into the lull adapter tubes.

WARNING: DO NOT ATTEMPT TO USE NARROW, STANDARD FORKS IN THE LULL ADAPTER TUBES. THE NARROW FORKS IN THE WIDER TUBES WOULD ALLOW THE MACHINE TO EXPERIENCE HORIZONTAL, VERTICAL, AND RADIAL MOVEMENT WHICH COULD LEAD TO LOSS OF BALANCE, LOSS OF CONTROL, AND DROPPING THE REELROVER.

If the fork lift forks are positioned outside of the ReelRover fork tubes (Figure 54) the machine is liable to fall.

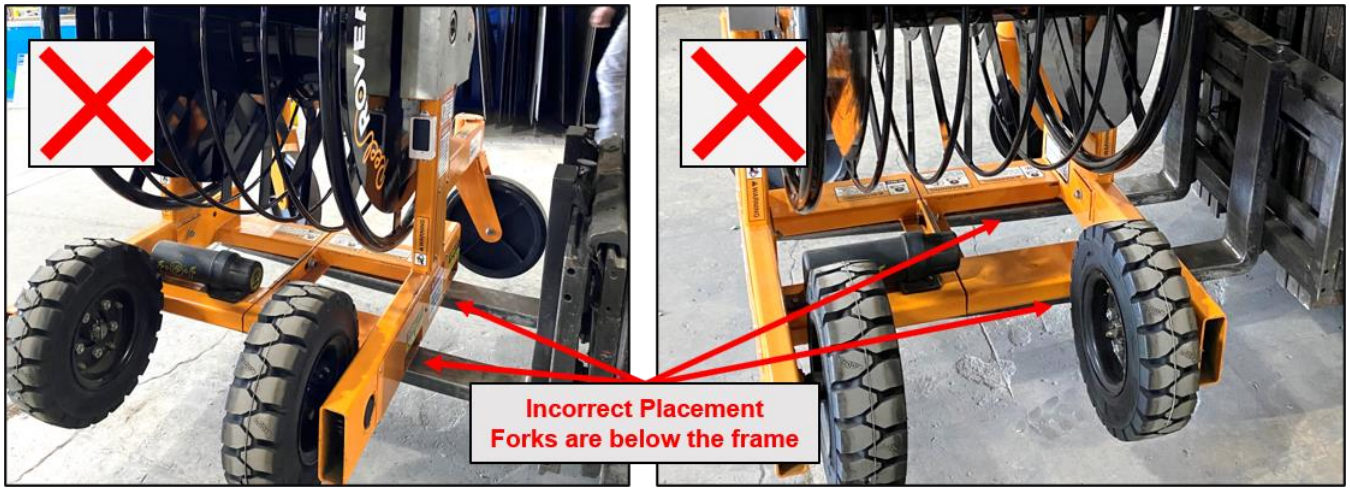


Figure 54: Forks Outside of Tubes

Secure 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. Refer to F.M.C.S.R. 393.100-114 “Protection Against Shifting and Falling Cargo.”

Use this process for all models, with and without lull adaptor, to load and secure a ReelRover to a pallet for shipping. At least two bandings are required per pallet to ensure secure shipping. Use steel or poly banding as follows:

1. Each band will pass completely through one of the ReelRover chassis fork tubes (one band per tube)
2. Direct the banding under the pallet and back to the banding roller/spool
3. Cut the bands to an appropriate link to ensure the banding can be properly tensioned and secured with metal clips or buckles, or thermo-welded for poly strapping

   NOTE: Crimping the steel banding is NOT permissible.
4. Additional banding may be used at the shipper’s discretion

Load ReelRover Using a Liftgate

NOTE: A liftgate must be at least 84" x 60" and rated for a minimum of 3000 lbs. to lift the ReelRover. If the liftgate does not meet these specifications, use another method of loading, such as a loading dock or fork lift.

Follow this process to load or unload the ReelRover onto a liftgate:

1. Push or Drive the ReelRover onto the liftgate in the orientation shown in Figure 55, left; ensure the swivel wheels are aligned as shown
2. Place both gearboxes in PARK (one gearbox at a time) and engage liftgate chocks (or position individual chocks); use tie downs at the discretion of the driver to properly secure the unit from shifting while lifted

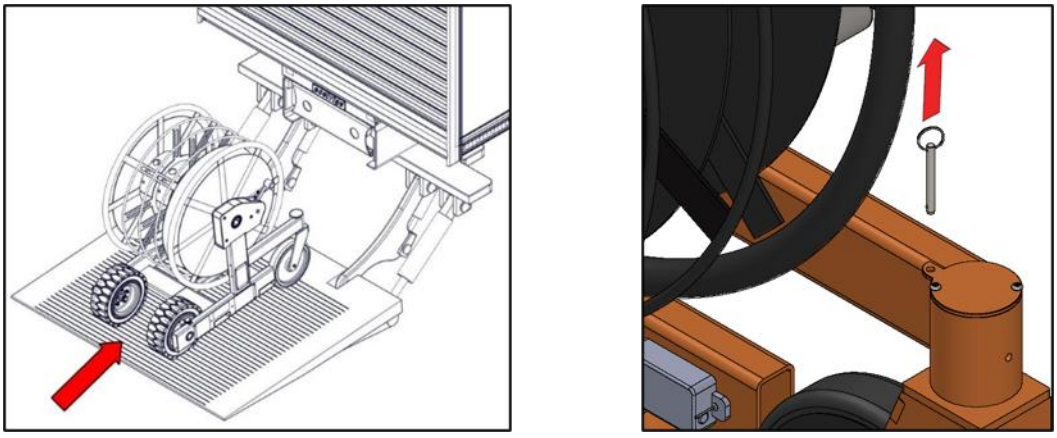


Figure 55: ReelRover onto Liftgate

3. Remove locking pins from swivel wheel cap holders (Figure 55, right)
4. Insert locking pins in front swivel holes (Figure 56, left)

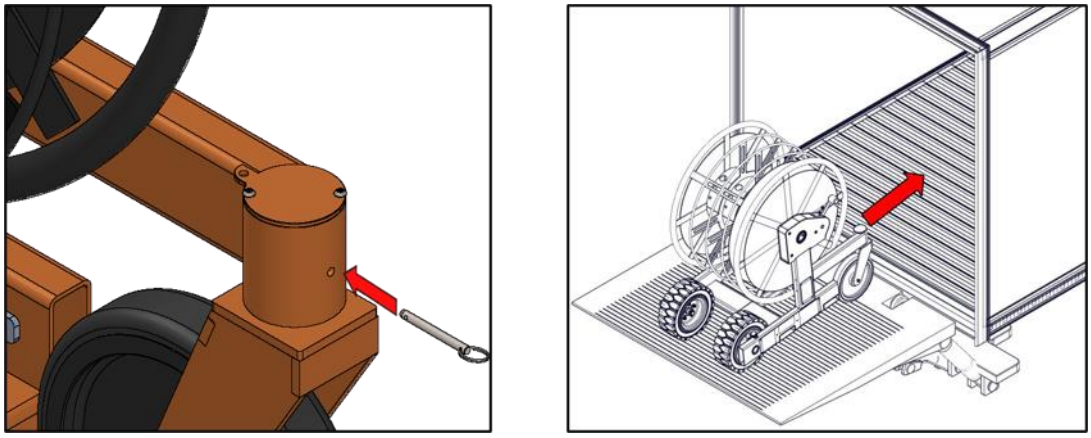


Figure 56: ReelRover into Truck

WARNING: KEEP THE REELROVER AT A SAFE DISTANCE FROM ANY EDGE OF THE LIFTGATE.

5. Raise the liftgate until it is level with the truck floor:
   - Keep both hands on the reel at all times to control acceleration
   - The operator should stay inside the rear of the truck and not stand on the liftgate
   - Use a spotter to ensure the ReelRover maintains a safe distance from all edges of the liftgate
6. Place both gearboxes in DRIVE (one gearbox at a time); remove forward chocks and/or straps
7. Carefully drive the ReelRover forward from the liftgate into the truck (Figure 56, right)
8. Place both gearboxes in PARK. Tie down and secure the ReelRover within the truck per F.M.C.S.R. 393.100-114 “Protection Against Shifting and Falling Cargo”

Reverse these steps to remove the ReelRover from the truck. Ensure all warnings and precautions are observed.

ReelRover Lock-out Procedure

The ReelRover is equipped with a lock-out feature. If any of these conditions occur, lock-out the ReelRover and contact Cerrowire at 1.800.367.2906:

- For shipping
- The unit is not functioning normally
- The unit has been damaged
- The unit has failed any points on the Equipment Inspection Checklist
- Troubleshooting has failed to correct a problem

A lock and key are stored in a box inside the User Manual Canister. The key cannot be removed unless the lock hasp is closed.

When locked out the ReelRover cannot be moved or used until the machine has been serviced or repaired and the lock-out removed. To lock-out the ReelRover:

1. Position the ReelRover on a level surface
2. Place both gear shift levers to PARK
3. Remove the lock-out cable, lock, and key from the User Manual Canister
4. Thread the cable through the lock-out eye bolt on the drive wheel nearest the User Manual Canister (Figure 57, left and center)

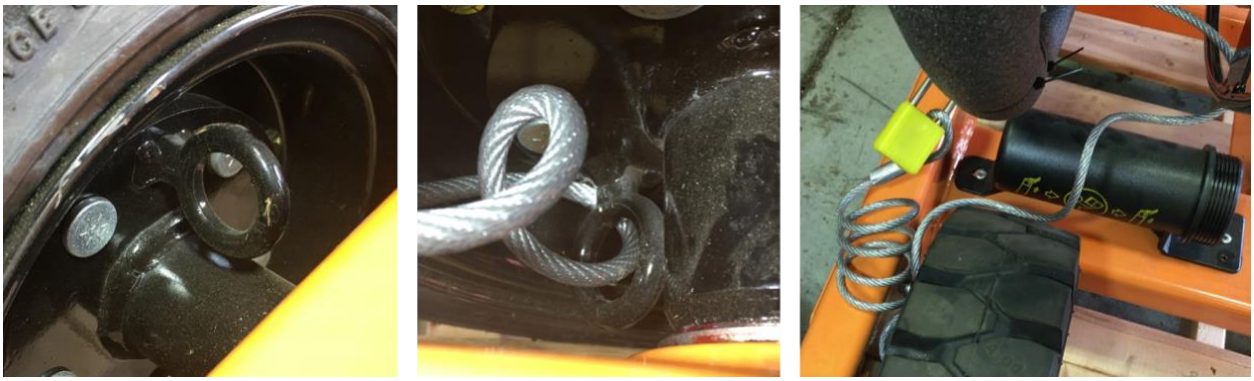


Figure 57: Lock-out Connections

5. Thread the cable through the conductor reel and ground reel
6. Attach the lock to the two wire ends and close the hasp (Figure 57, right)
7. Remove the key and place it inside the lock box
8. Place the lock box into the User Manual Canister

Troubleshooting

Attempt the suggested troubleshooting steps if any of the following conditions occur during ReelRover operation. If the condition cannot be cleared, lock-out the machine and contact Cerrowire for assistance. If required, use a forklift to move the ReelRover as described in Transportation and Shipping.

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
- Use lock-out procedure to immobilize ReelRover
- 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
- Use lock-out procedure to immobilize ReelRover
- Call service line for further instructions

ReelRover will not move in NEUTRAL.

- Check for and remove obstructions in front of any wheels, and see if ReelRover will move
- 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

Contact Cerrowire for repair and maintenance assistance at 800.367.2906 or reelrover@cerrowire.com.

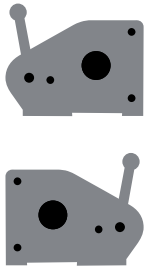
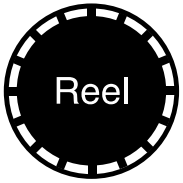
Equipment Inspection Prior to Use

The Equipment Inspection Checklist (located on the next page) 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 all inspection items have passed.

WARNING: DO NOT OPERATE REELROVER UNLESS ALL CHECKLIST ITEMS HAVE PASSED. IF THE MACHINE DOES NOT PASS ALL ITEMS COMPLETE THE REELROVER LOCK-OUT PROCEDURE. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.

Contact Cerrowire for repair and maintenance assistance at 800.367.2906 or reelrover@cerrowire.com.

ReelROVER Equipment Inspection Checklist

Rover Model:	Rover Serial #:	Date Tested:		Tested By:	
Check Points	**Inspection Items**	**Pass**	**Fail**	**Notes**	**Initials**
Gearboxes 	*Before using ReelRover with any take-up machine,* inspect the securing bolt head in the left-hand gearbox hub to ensure there are no marks, gouges, or other visible damage indicating a gearbox-to-reel separation.				
	Both gearshifts freely move into all three positions (P/N/D)				
	With both gearshifts in NEUTRAL, ReelRover freely moves when pushed manually				
	With both gearshifts in DRIVE while turning the reel, drive wheels rotate on the axle				
	With both gearshifts in NEUTRAL, both caster wheels rotate freely and can swivel 360°				
	With left-hand (LH) gearbox in PARK and right-hand (RH) gearbox in DRIVE while turning the reel, the LH drive wheel does not rotate while performing a 180° driven turn in both directions (see Figure A1)				
	With RH gearbox in PARK and LH gearbox in DRIVE while turning the reel, the RH drive wheel does not rotate while performing a 180° driven turn in both directions (see Figure A2)				
	Rotates on its center axle freely without binding				
	Free-spinning ground (FSG) lock plunger engages in both the locked and unlocked orientations				
	With ground lock plunger in the Unlocked position, the FSG reel should freely rotate, without binding, independently of the conductor reel				
Chassis 	No visible indications of bending, warping, cracking, or other damage				
	Walking beam bolts protrude through lockouts				
	Walking beam splits when both RH and LH drive wheels climb over debris individually and returns to its original position on flat ground				
	All ReelRover safety stickers are intact and legible				

MADE IN THE USA by cerrowire®

Contact Cerrowire for repair and maintenance assistance at 800.367.2906 or reelrover@cerrowire.com.

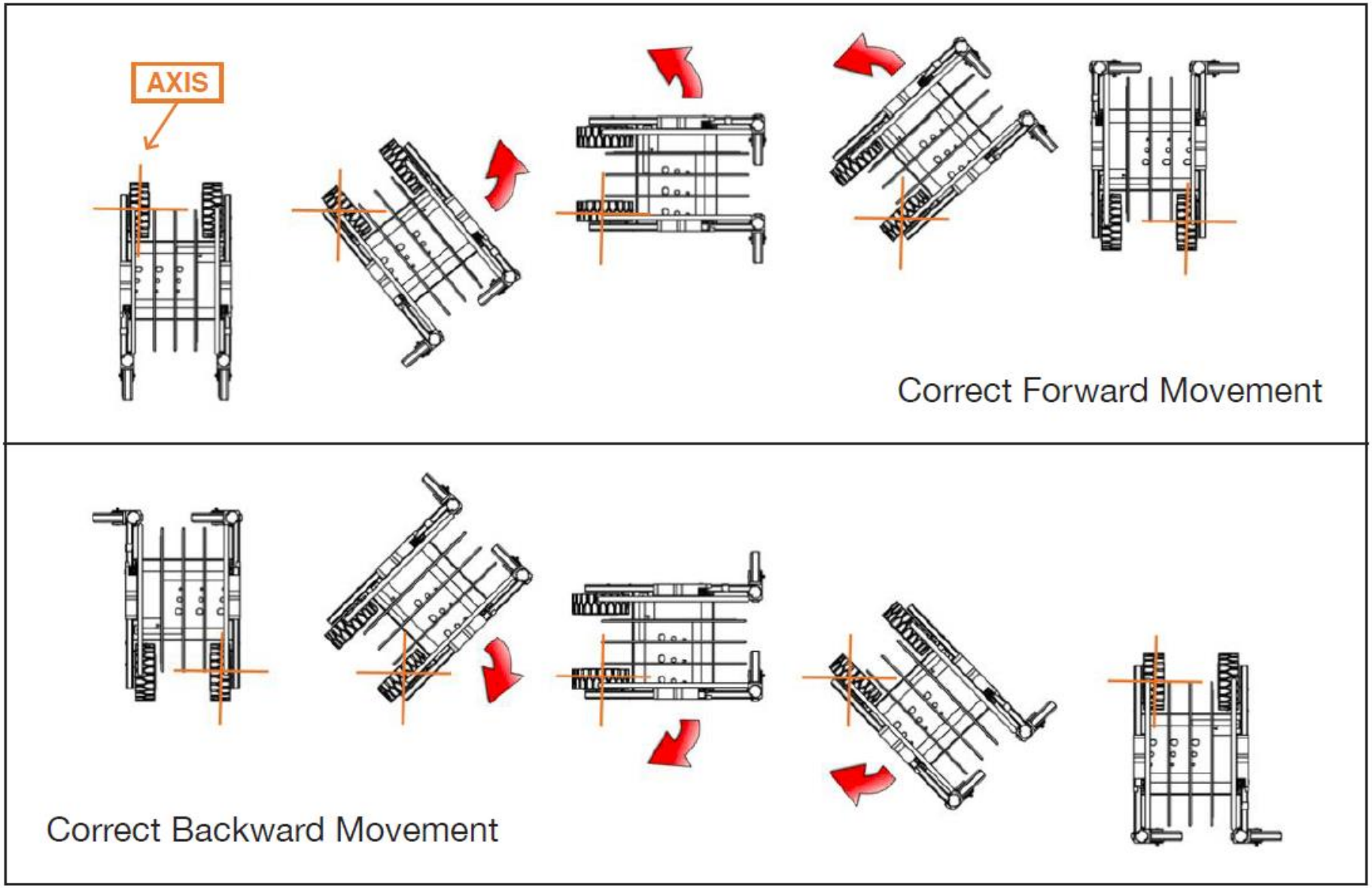


Figure A1: Left-hand 180° Driven Turn

Test 1 – 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.***

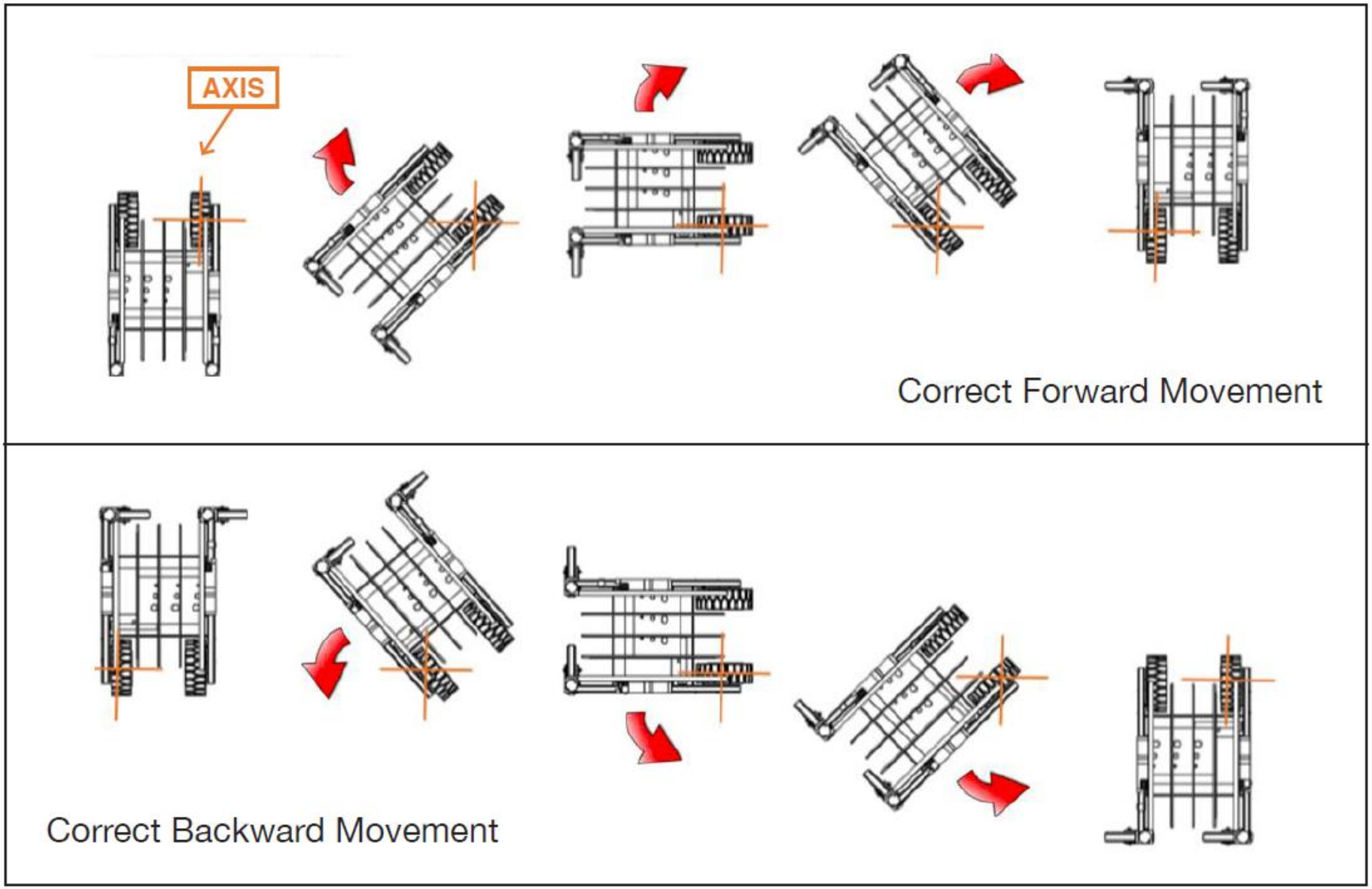


Figure A2: Right-hand 180° Driven Turn

Test 2 – 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.***

Scan to access online ReelRover resources, including demonstration videos, manuals, and the equipment checklist.

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