

## Before You Begin

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The Furio dolly has four wheel units; one drive wheel unit and three passive wheel units. This document describes how to replace all four.

Before you begin, read and understand all instructions. If you have any questions, contact Ross Video Technical Support.

This procedure takes approximately fifty minutes.

**IMPORTANT:** This procedure requires at least two people.

#### The Furio Wheel Spare Part Kit (FRO-SP-WHKIT-U) includes:

- One drive wheel unit including drive belt (motor unit not included)
- One fixed-shaft passive wheel unit
- Two sliding-shaft passive wheel units
- Two hexagonal wrenches (one 4mm, one 5mm)

#### Other required tools and materials:

- One 17mm open-end wrench
- One wooden prop block approximately 3.5" high, by 6" long, by 2" wide (90mm x 150mm x 50mm).

## Removing the Drive Wheel Unit

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### Remove the Drive Wheel Unit

**2a** Move the dolly to where there is plenty of working space. Ensure the end with the drive wheel unit is between traverses (cross pieces), so nothing is between the end of the dolly and the floor.

**2b** Lower the lift column, disconnect the power cable to the head, turn off power to the dolly, and disconnect the dolly power cable.

**2c** Use the 5mm hexagonal wrench to disconnect the track wiredraw cable from the dolly, and then guide the cable gently back to the wiredraw enclosure.

**IMPORTANT:** Do not allow the cable to snap back to the wiredraw enclosure!

**2d** Use a 17mm open-end wrench to remove the nut above the drive wheel unit.

**Tip:** If the nut spins without coming off, insert a narrow tool into the locking hole in the side of the shaft. The tool locks the shaft as you turn the wrench, enabling you to remove the nut.

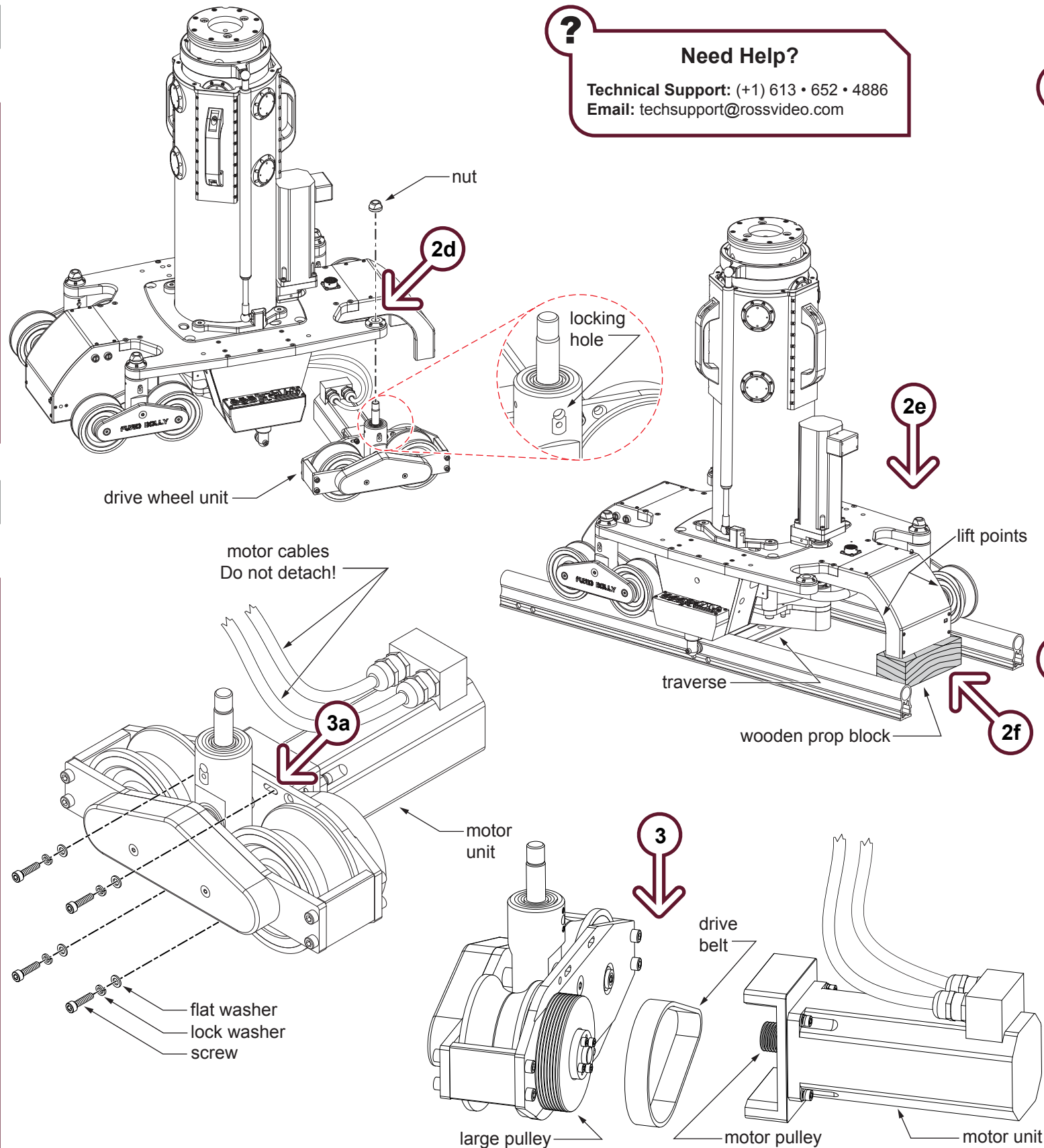
**2e** Have one or two people lift and hold up the end of the dolly while another removes the drive wheel unit and sets it beside the dolly.

**IMPORTANT:** Lift only by the lift points shown in the illustration. Never lift the payload or the top section of the lift column! Improper lifting may damage the payload and/or dolly!

**IMPORTANT:** The dolly is heavy. Get help, and follow workplace safety rules. Be careful not to tip or drop the dolly.

**IMPORTANT:** Do not attempt to disconnect the motor cables between the drive wheel unit and the dolly! Do not pull the cables taut! Damage to the cables may result.

**2f** Place the wooden prop block under the end of the dolly, and then gently lower the dolly onto it. Ensure all wheels are properly seated on the track.



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## Transferring the Motor Unit

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### Transfer the Motor Unit

The replacement drive wheel unit does not include a motor unit. You must transfer the motor unit to the new drive wheel unit.

**3a** Use the 4mm hexagonal wrench to remove the four screws that attach the motor unit to the drive wheel unit.

**Tip:** Each screw has a flat washer and a lock washer. Do not lose the washers.

**3b** Detach the motor unit and the drive belt.  
 Discard the drive belt. You will replace it with a new one.

**3c** On the new drive wheel unit, place the new drive belt over the large pulley, ensuring the belt is centered on the pulley.

**3d** Align the motor unit to the new drive wheel unit, placing the drive belt over the motor pulley. Ensure the belt is centered on the motor pulley and that the motor unit is oriented as shown.

**3e** Have one person slide the motor unit away from the large pulley, to apply firm tension to the belt, while another person inserts and tightens the four screws you removed in Step 3a.

**Tip:** Each screw has a flat washer and a lock washer. Position the lock washer between the screw head and the flat washer.

**3f** Turn the wheels a few times and observe the drive belt, to ensure that it remains centered on the pulleys.

## Reinstalling the Drive Wheel Unit

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### Reinstall the Drive Wheel Unit

**4a** Have one or two people lift and hold up the end of the dolly, while another attaches the drive wheel unit by sliding its vertical shaft through the hole in the dolly base and loosely attaching the nut.

**IMPORTANT:** Lift only by the lift points shown in the illustration. Never lift the payload or the top section of the lift column! Improper lifting may damage the payload and/or dolly!

**IMPORTANT:** The dolly is heavy. Get help, and follow workplace safety rules. Be careful not to tip or drop the dolly.

**4b** Remove the wooden prop block, and then gently lower the dolly onto the track. Ensure all wheels are properly seated on the track.

**4c** Use the 17mm open-end wrench to tighten the nut at the top of the vertical shaft.

**Tip:** If the nut spins without tightening, insert a narrow tool into the locking hole in the side of the shaft below the base plate. The tool locks the shaft as you turn the wrench, enabling you to tighten the nut.

## Removing a Passive Wheel Unit

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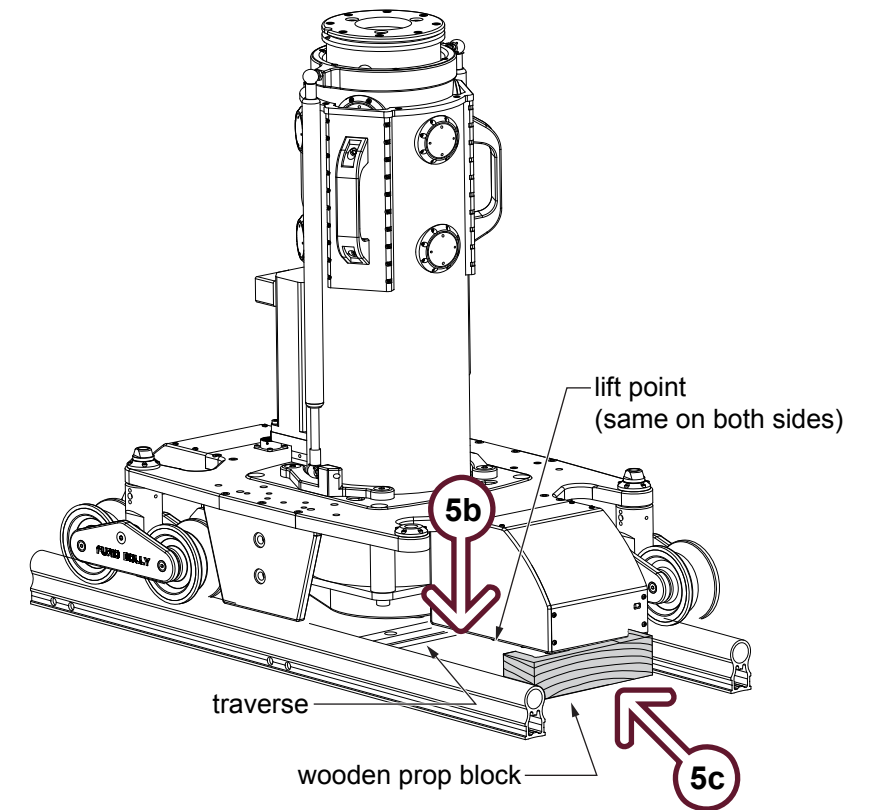
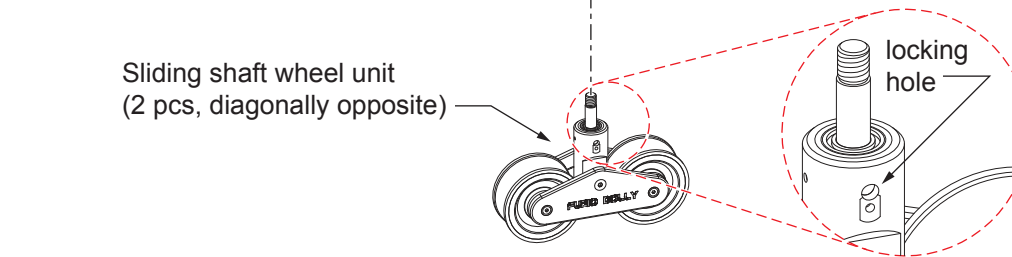
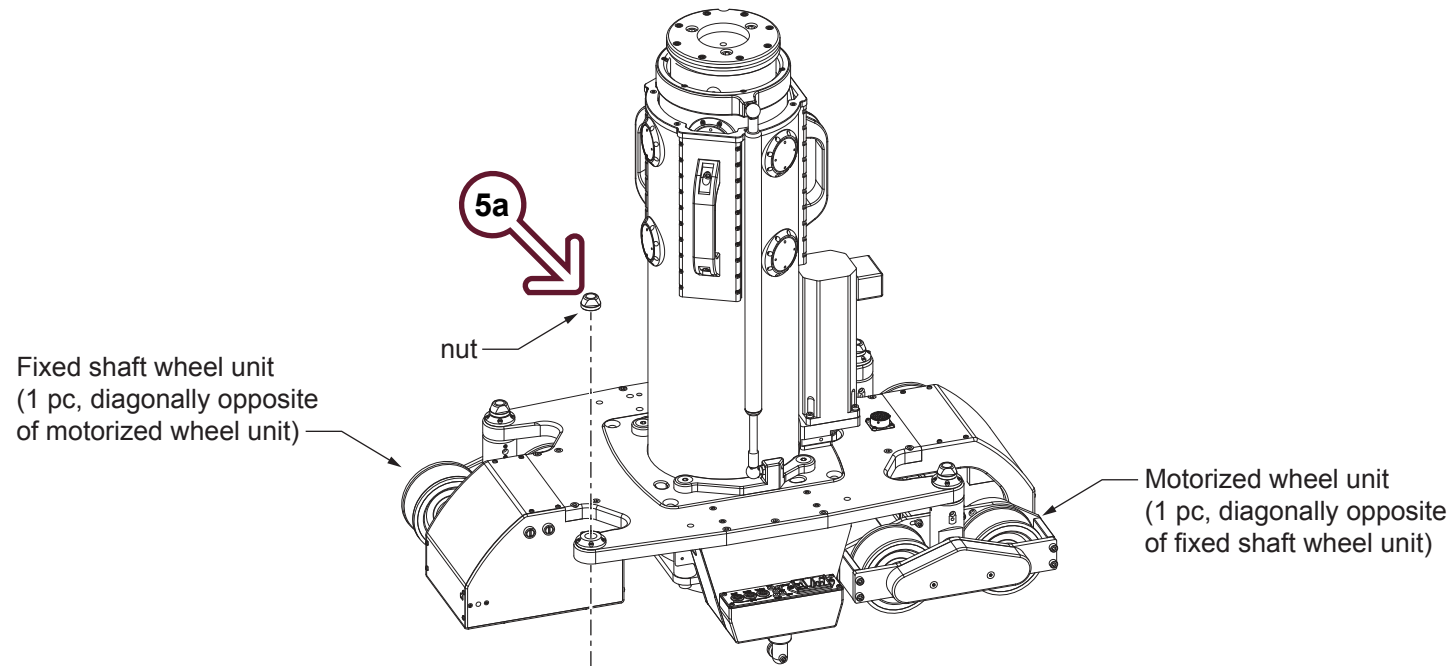
### Remove the Wheel Unit

- 5a** Use a 17mm open-end wrench to remove the nut above the wheel unit.  
**Tip:** If the nut spins without coming off, insert a narrow tool into the locking hole in the side of the shaft. The tool locks the shaft as you turn the wrench, enabling you to remove the nut.
- 5b** Have one or two people lift and hold up the end of the dolly while another removes the wheel unit and sets it aside.  
**IMPORTANT:** Lift only by the lift points shown in the illustration. Never lift the payload or the top section of the lift column! Improper lifting may damage the payload and/or dolly!  
**IMPORTANT:** The dolly is heavy. Get help, and follow workplace safety rules. Be careful not to tip or drop the dolly.  
**Tip:** Remove only one wheel unit at a time to ensure you reinstall them in their original positions. There are two types of passive wheel units, and they must be reinstalled in the correct positions.
- 5c** Place the wooden prop block under the end of the dolly, and then gently lower the dolly onto it. Ensure all wheels are properly seated on the track.

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## Installing a Passive Wheel Unit

### Install the Wheel Unit

- 6a** If you removed multiple wheel units, determine where each is to be reinstalled. There are two types of passive wheel units; fixed shaft and sliding shaft. The fixed shaft wheel unit must be installed diagonally opposite to the drive wheel unit. See drawing.
- 6b** Have one or two people lift and hold up the end of the dolly, while another attaches the wheel unit by sliding its vertical shaft through the hole in the dolly base and loosely attaching the nut.  
**IMPORTANT:** Lift only by the lift points shown in the illustration. Never lift the payload or the top section of the lift column! Improper lifting may damage the payload and/or dolly!  
**IMPORTANT:** The dolly is heavy. Get help, and follow workplace safety rules. Be careful not to tip or drop the dolly.
- 6c** Remove the wooden prop block, and then gently lower the dolly onto the track. Ensure all wheels are properly seated on the track.
- 6d** Use the 17mm open-end wrench to tighten the nut at the top of the vertical shaft.  
**Tip:** If the nut spins without tightening, insert a narrow tool into the locking hole in the side of the shaft below the base plate. The tool locks the shaft as you turn the wrench, so you can tighten the nut.
- 6e** After you have replaced all four wheel units, use the 5mm hexagonal wrench to reattach the track wiredraw cable to the dolly.
- 6f** Reconnect power cables to the dolly and to the head.
- 6g** Turn the dolly on, and test that it travels smoothly. On the drive wheel unit, check that the drive belt tracks properly on the pulleys.

