



# *Circe Cycles*

## Assembly Manual Morpheus

# Contents

- INTRODUCTION .....3
- UNPACKING .....3
  - CONTENTS OF MAIN BOX .....3
  - CONTENTS OF SMALL PARTS BOX .....3
- ASSEMBLY .....3
  - TOOLS REQUIRED .....3
  - POSITIONING THE CAPTAIN'S HANDLEBARS .....4
  - INSTALLING STOKER SEAT .....4
  - INSTALLING STOKER HANDLEBARS .....4
  - INSTALLING THE BOOM .....5
  - ADJUSTING THE TIMING CHAIN .....5
  - INSTALLING THE FRONT STAND .....5
  - INSTALLING THE KIDDY SYSTEM.....5
  - INSTALLING THE PEDALS.....6
  - BELL AND REFLECTORS.....6
  - PRE-RIDE .....6
  - FIRST RIDE .....6
- APPENDIX A .....7

## INTRODUCTION

This manual is intended for those who have bought their Morpheus directly from Circe Cycles and have received their tandem packed in a box. This manual is to help you unpack and assemble your tandem. After this you can refer to the Owner's manual to help with adjustment and more comprehensive setup.

To further help with assembling your tandem, there are instructional videos available on the manuals page of our website.

[www.circecycles.com/products/morpheus/manuals/](http://www.circecycles.com/products/morpheus/manuals/)

## UNPACKING

Make sure that both boxes are the correct way up before opening. Remove all the loose packaging and any loose parts from around the bike. Remove the tandem from the box, a second set of hands makes this easier.

The seat, small components and accessories comes in a separate box to the main part of the tandem, please follow the same procedure as above for unpacking.

**NOTE** - Check that everything is present and undamaged before proceeding to assembly.

### CONTENTS OF MAIN BOX

The main box should contain:

- The tandem with the captain's handlebars folded down and to one side of the frame
- Racks\* and rear stand\* should be fitted to the bike.
- Front stand\* will have the main section removed with just the struts attached to the frame.
- Front and rear mudguards\*
- Kiddy system main body\* (if ordered)

\* Optional extras

### CONTENTS OF SMALL PARTS BOX

The small parts box should contain the following, however there may be additional parts in the box depending on what has been ordered:



- Seat including support stays
- Boom with crank fitted
- Manuals, reflectors and bell
- Stoker handlebars
- Main section of Front stand\*
- Pedals\*
- Charger, power cable, battery, and adaptor (Pendix only)\*

\* Optional extras

## ASSEMBLY

Find plenty of space to lay out the parts and gather the tools you will need.

**NOTE** - Only cut clear zip ties when unpacking.



### TOOLS REQUIRED

- 4,5 and 6mm Allen key
- Torque wrench (Optional)
- Cable cutters or robust scissors for cutting zip ties

- 10mm spanner (Front stand, Kiddy system)
- 15mm pedal spanner

## POSITIONING THE CAPTAIN'S HANDLEBARS

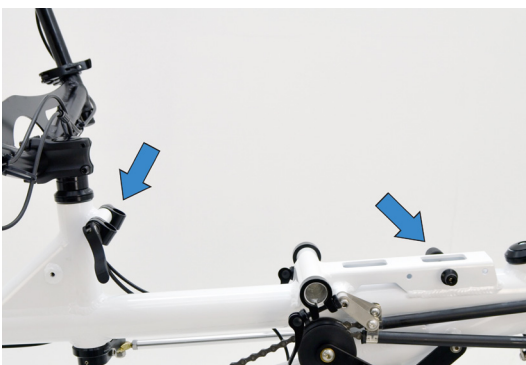
Remove any zip ties that are holding the handlebar and loosen the four stem bolts using an Allen key. The bars can now be turned to an upright position, a good starting point is shown below, but can easily be adjusted to suit your riding style. The stem should be facing towards the back of the bike and needs to be aligned with the front wheel, then fixed in place by tightening the two pinch bolts on the stem. The handlebar extensions are adjusted using a quick release and should be fully tightened before riding. Once the handlebar and front wheel are aligned the stem bolts should be tightened to the recommended torques settings in the torque table Appendix A.



**NOTE** – It's easier to align the handlebar and front wheel with the stoker seat removed.

## INSTALLING STOKER SEAT

The stoker seat mounts to the frame at two locations. The upper mount has two tubes which slide into the corresponding clamps on the frame.



**NOTE** – The P clip holding the cables should be on the inside of the clamps and on the left hand side of the bike.



The lower seat mount fits to the frame via a bolt and lever. There are three potential positions for the bolt to be in, depending on the desired position of the seat. The bolt is tightened by rotating the black lever clockwise, whilst holding the nut on the other side. The lever can't rotate fully because of the seat, so it is possible to disengage the lever by pressing the red button and pulling the lever out, allowing it to be rotated freely back to a suitable starting position.



## INSTALLING STOKER HANDLEBARS

The stoker bars slide into the tube to the rear of the lower seat mounting point, and are fixed in place using the quick release clamps. The bars should be positioned so the foam grip is facing forward and slightly tilted up.

**NOTE** - f you have a Front stand the stoker bar is used to hold the upper clamp.



## INSTALLING THE BOOM

First, remove any packaging from around the end of the main tube on the bike, including the transportation bung, which is inserted into the end of the boom to prevent damage. The boom can then be slid into the main tube and the chain looped over the chainring. The boom can be set to the length required and the two pinch bolts tightened to the recommended torque, see Appendix A



**NOTE** – Tighten the pinch bolts evenly to prevent damage to the frame

## ADJUSTING THE TIMING CHAIN



The timing chain can be tensioned by undoing the quick release on the tensioner arm and rotating the arm to take up the slack in the chain. If the tensioner alone can't take up the slack in the chain, it is possible to shorten the timing chain by

removing some chain links.

## INSTALLING THE FRONT STAND

(Optional extra) The bike is packed with the lower stand brace fitted to the down tube, the main section of the stand is packed separately in the small parts box. The stand mounts to the frame at two points; the upper clamp, slides over the stoker bars, as shown earlier in the manual. The lower mount is via the brace, the arms of the brace need to be bolted to the main body of the stand using the supplied nut and bolts.



## INSTALLING THE KIDDY SYSTEM

(Optional extra) The Kiddy system main body should be mounted to the main tube of the tandem, the crank assembly will be packed separately in the small parts box.



To mount the crank assembly to the main body, the T nuts need to be aligned with the corresponding slots in the main body.

**NOTE** – It's easier to mount the T nuts to the channel if one T nut has the long end facing out with the opposite side T nut facing in.



Once the crank assembly is positioned on the main tube it can be fixed in place using the four M6 hex bolts and a 10mm spanner.

## **INSTALLING THE PEDALS**

(Your own if not ordered from us) – The pedal threads are handed. The right hand pedal tightens in the normal direction; the left-hand pedal has a left-hand thread, and tightens in the opposite direction to normal. Tighten the pedals to the torque shown in Appendix A.

## **BELL AND REFLECTORS**

Reflectors and a bell are supplied with your tandem. The bell can be mounted anywhere on the handlebars where it can be reached easily. The front reflector can also be mounted to the tab on the end of the boom. The rear reflector fits to the Captain's seatpost, ensure that the reflector is visible at the height you intend to have the post at. If not, you may need to reposition the reflector so that it is visible.

## **PRE-RIDE**

Check all nuts, bolts and quick releases to make sure everything is tight (See appendix A for torque settings). Ensure the wheels spin freely and the brakes function correctly.

## **FIRST RIDE**

Check the gears shift correctly, refer to the Owner's manual, or manufacturers manual, for adjustment. Pay attention to the fit and make any adjustments required, once you are stationary. Finally, ensure there are no rattles or unexpected sounds.

You can now refer to the User's manual for final set up and on-going maintenance.

# APPENDIX A

Tightening Torques Table

Fastener	Allen key size (mm)	Nm	In-lbf	Loctite
Extender clamp top bolt	5	8	71	
Extender clamp bolt	5	8	71	
Stem bolts	4	6	53	
Alfine hub nut	15 spanner	30-45	265-398	
V brake mounting bolt	5	6-8	53-71	Y
Front derailleur clamp bolt	5	3-5	27-44	
Front derailleur cable clamp bolt	5	5-7	44-62	
Pedals (Allen key)	8	35	310	
Pedals (spanner)	15 spanner	35	310	
Thru axle M15 x 1.5	6	17	150	
Brake lever clamp bolt	4-5	6-8	53-71	
Adjustable drop out M8 bolt	6	15-17	130 -150	
Mechanical caliper mounting bolt	5	9-10	80-89	Y
Rohloff disc rotor bolt	5	7	62	Y
Rohloff M4x25 retaining plate	T-20	3	27	
Rear derailleur mounting bolt	5	10	89	
Rear derailleur cable clamp bolt	5	4-5	38-44	
Disc rotor bolt	T-25	2-4	18-35	Y
Separable coupling bolt	6	15-19	130-168	
Separable drainpipe bolt	6	15-19	130-168	
Shimano hollowtech crank bolt	5	10-14	88-132	
Square taper crank bolt	8	34-44	305-391	
Shimano C/L disc fitting	HG tool	40-50	350-435	
All other M4 bolts	3	5-6	44-53	
All other M5 bolts	4	6-8	53-71	
All other M6 bolts	5	8-10	70-89	

[www.circecycles.com](http://www.circecycles.com)

All photos, illustrations, colours, weights, and specifications contained in this catalogue are based on the latest production information at the time of publication. Circe Cycles reserves the right to make changes at any time, without notice, in colours, materials, equipment, specifications, and models. Some models may be shown with optional equipment. Please check model availability and full specification with your dealer prior to ordering.