

# One-Arm Drive Option

*Supplement to Quickie 2, Quickie TS, Quickie IRIS,  
Zippie 2, Zippie GS, Breezy Series*

*User*

*Instruction*

*Manual*

**Note:** This supplement contains information on the assembly and adjustments for the One-Arm Drive Components of a Quickie 2, Quickie TS, Quickie IRIS, Zippie 2, Zippie GS & Breezy Series wheelchairs ONLY.

Please refer to the Quickie 2, Quickie TS, Quickie IRIS, Zippie 2, Zippie GS, or Breezy Series User Instruction Manual for Safety Tips, Troubleshooting, Maintenance, Tool List, Accessories, Warranty, etc.



**I. SUNRISE LISTENS**

**SUNRISE LISTENS**

Thank you for choosing the One-Arm Drive Option. We want to hear your questions or comments about this manual and the service you receive from your supplier. Please feel free to write or call us at the address and telephone number below:

**Sunrise Medical**  
Customer Service Department  
7477 East Dry Creek Parkway  
Longmont, CO 80503  
(303) 218-4500

Let us know if you change your address. This will allow us to keep you up to date with information about safety, new products and options to increase your use and enjoyment of your wheelchair.

**FOR ANSWERS TO YOUR QUESTIONS**

Your authorized supplier knows your One-Arm Drive best and can answer most of your questions about chair safety, use and maintenance. For future reference, fill in the following:

**Supplier:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Serial #:** \_\_\_\_\_ **Date/Purchased:** \_\_\_\_\_

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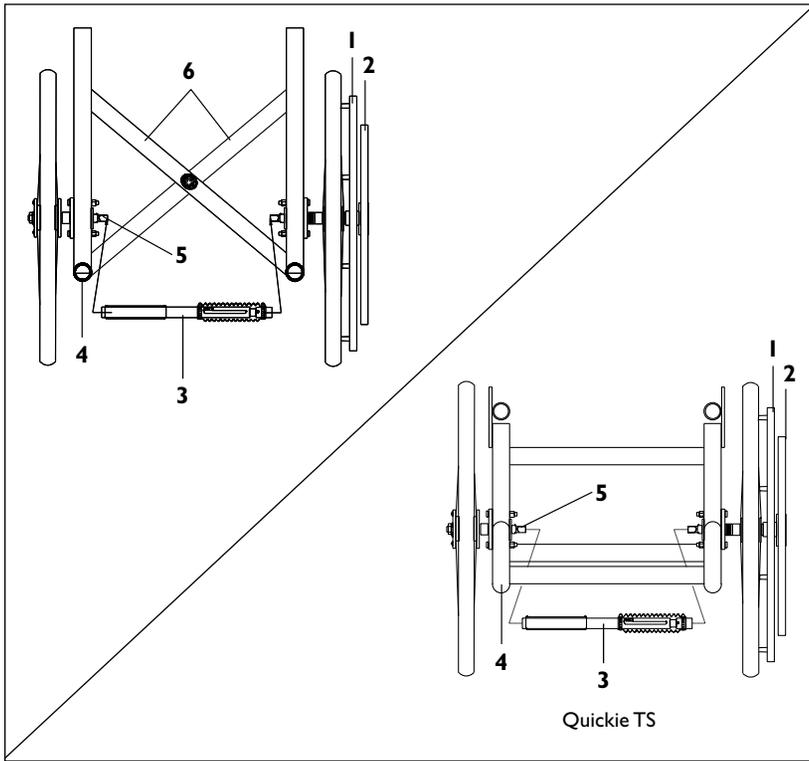
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### III. SPECIFICATIONS AND FEATURES



(Rear views of the wheelchairs)

#### ONE-ARM DRIVE

1. Inner Handrim
2. Outer Handrim
3. Drive Shaft Assembly
4. Drive Shaft Mounting (Storage) Brackets (not visible)
5. Axle Tabs
6. Crossbraces

### IV. ASSEMBLY

#### A. INSTALLING AXLES

##### 1. Installation

- a. Mount axle plates on each side of the chair Breezy 500 & 510 (Fig. 1), Breezy 600 & Quickie LXI (Fig. 2), Zippie GS (Fig. 1a), Breezy (Fig. 3), Zippie 2 (Fig. 1a), Quickie TS (Fig. 4), and Quickie IRIS (Fig. 5) must use bushings for proper installation.

**NOTE:** DO NOT use camber with one-arm drive.

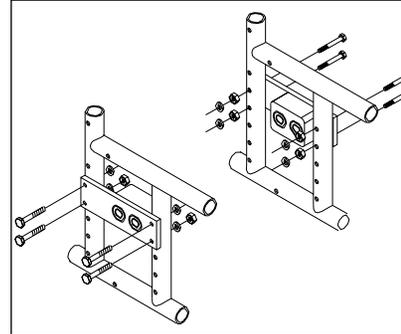


Fig. 1

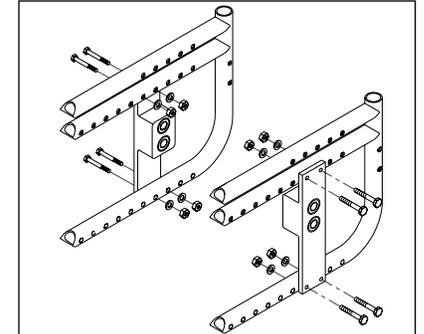


Fig. 1a

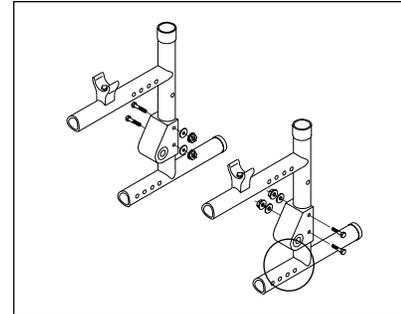


Fig. 2

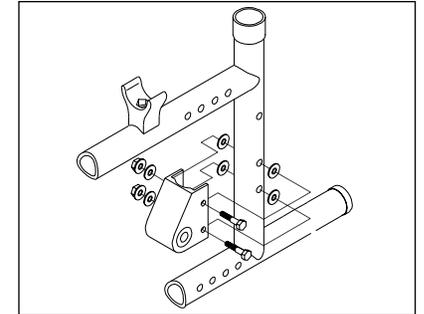


Fig. 3

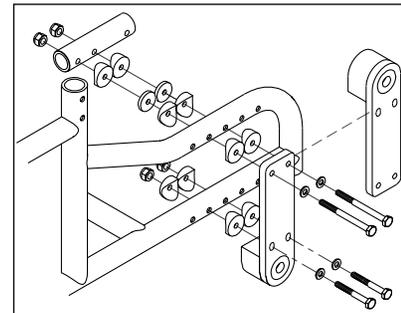


Fig. 4

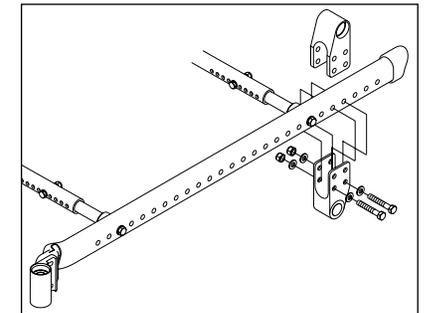


Fig. 5

**B. INSTALLING HUBS**

**I. Installation (Figs. 5 & 6)**

- Thread screw (4) partially through threaded hub (3) to position hubs on both sides of wheel.
- Insert alignment tool or axle with key (2) through hub and wheel assembly, aligning keyways.
- Add washer (5) and thread nut (6) on alignment tool.
- Tighten nut until both hubs are fully seated in wheel.
- Install screws on hubs in sequence shown (Fig. 6) using 1/8" Allen wrench.
- Remove screw (4) and alignment tool (2).

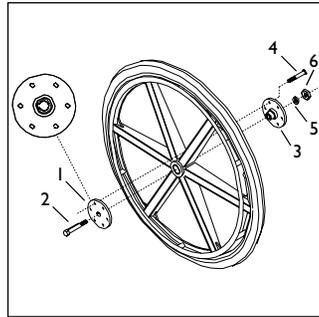


Fig. 5

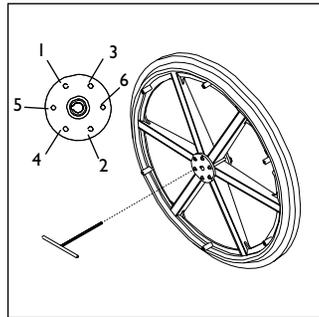


Fig. 6

**C. ASSEMBLING COMPONENTS**

**I. Drive Side Assembly (Fig. 7)**

- Mount handrim hub to handrim on dual handrim side.
- Add one washer (2a) to axle (1).
- Insert axle with washer through bearings in axle plate.
- For Quickie & Zippie Series: Add four washers (2b) to axle. For Breezy Series: Move washers (2c) as spacers for outer handrim (6) and wheel assembly (4). Add or remove washers to adjust spacing.
- Add spacer (3) to axle.
- Add wheel (4) to axle.
- Add another washer (2c) to axle.
- Insert key (5) into keyway on axle (1).
- Slide handrim assembly (6) on to axle.
- Add washer (2e) and nut (7).
- Tighten.

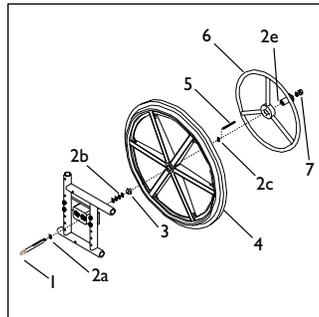


Fig. 7

**2. Opposite Side Assembly (Fig. 8)**

- Add one washer (5a) to axle (1).
- Insert axle with washer through bearings in axle plate.
- Add spacer (2) to axle.
- Add wheel (4) to axle.
- Insert key (3) into keyway on axle (1).
- Add washer (5b) and nut (6).
- Tighten.

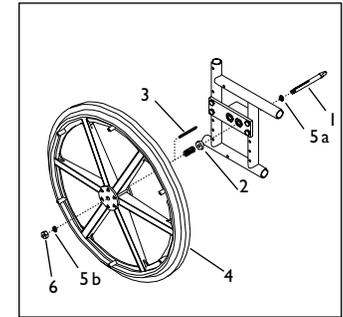


Fig. 8

**3. Drive Shaft Mounting (Storage) Brackets (Fig. 9)**

- Mount drive shaft mounting (storage) brackets to chair in either position shown.

**NOTE:** For Zippie GS, lower side frame is the only storage mounting option

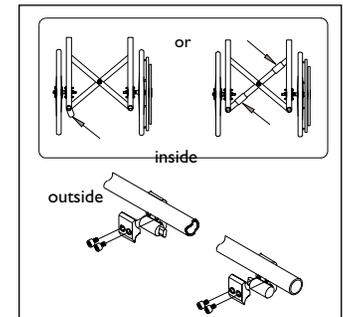


Fig. 9

**4. Installing Drive Shaft Assembly (Fig. 10 & 10a)**

- Compress, twist and lock drive shaft assembly.
- Attach assembly to one axle tab.
- Unlock assembly and attach to opposite axle tab.

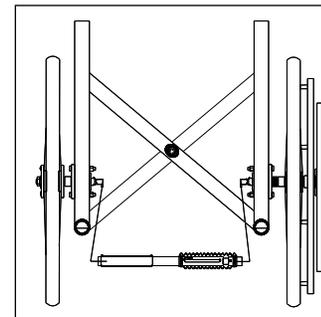


Fig. 10

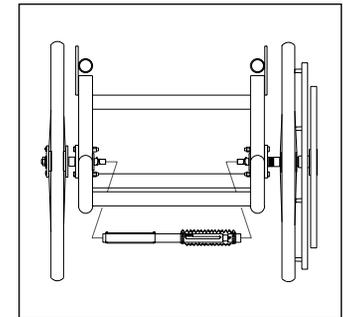


Fig. 10a (Quickie TS)

**A. REAR AXLES - CENTER OF BALANCE**

**1. Notes**

- a. The position of the rider's weight relative to where you set the rear axles determines the center of balance. These are the most important adjustments on your chair.
- b. You can adjust the center of balance by moving the rear axles forward or back in the axle plate. On the Zippie GS and the Quickie IRIS, the axle plate itself moves forward or back on the side frame to adjust the center of balance (Fig 11b).

**2. Reasons to Adjust**

- a. Moving the rear axles FORWARD in the axle plate will lighten the force needed to turn the chair.
- b. Moving the rear axles BACK in the axle plate makes the chair more stable.
- c. Moving the Zippie GS or the Quickie IRIS axle plate forward lightens the force necessary for turning, while moving it back stabilizes the chair.

**⚠ WARNING**

Consult your doctor, nurse or therapist to find the best rear axle setup for your chair. Do not change the setup UNLESS you are sure you are not at risk to tip over.

**3. Forward or Rearward Axle Adjustment (Figs. 11, 11a & 11b)**

The center of gravity is adjusted by moving the rear axle forward or backward to the additional bearing position (preset with bearings at the factory). For additional forward adjustments, the axle plate may be moved forward by inverting the axle plate and thus giving two additional positions.

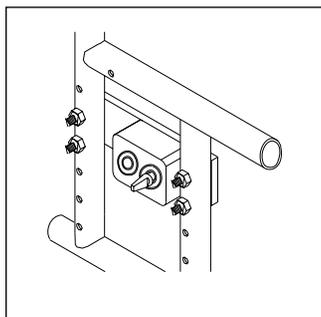


Fig. 11 Quickie & Zippie 2

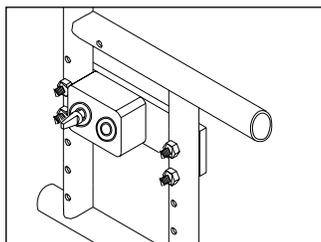


Fig. 11a Quickie & Zippie 2

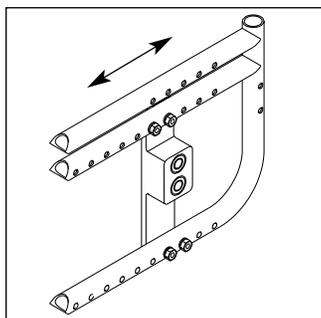


Fig. 11b Zippie GS

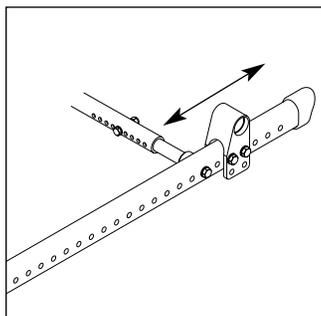


Fig. 11c

**⚠ WARNING**

Always adjust rear wheel locks after you make any change to the axle position. Make sure lock arms embed in tires at least 1/8 inch when locked. If you fail to do so, the locks may not keep the rear wheels from rolling. Refer to User Instruction Manual for directions.

**B. REAR AXLES - SEAT HEIGHT**

**1. Seat Height - Quickie 2 and Zippie 2 Only (Fig. 12)**

Seat height can be adjusted by moving the axle plate vertically in the predrilled frame holes. This allows a 2 1/2" seat height adjustment. Refer to User Instruction Manual for directions.

**2. Seat Height - Zippie GS Only (Fig. 12a)**

On the Zippie GS, adjust seat height by moving the rear axle sleeve up or down in the axle plate. 1.25" adjustment possible (Fig 12a).

**NOTE:** Only 20", 22" and 24" wheels available with one-arm drive.

**⚠ WARNING**

If you raise the seat too high, you may "out-adjust" the caster forks. If this occurs, the seat will tilt toward the front, and may cause the rider to fall. To avoid this, you will need to use a longer caster fork or fork stem. Refer to User Instruction Manual for directions.

**3. Seat Height - Breezy Series Only (Fig. 13)**

Seat height can be adjusted by inverting the axle block. This allows a 1" seat height adjustment.

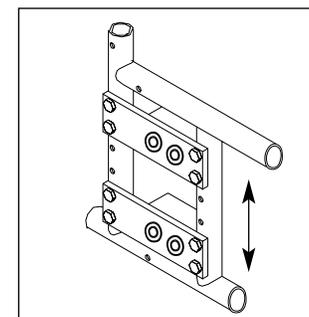


Fig. 12

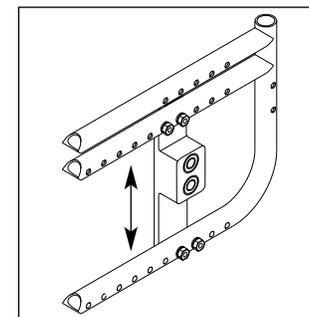


Fig. 12a

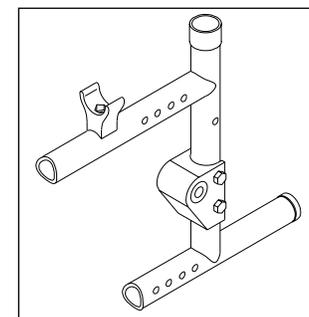


Fig. 13 Breezy

**4. Quickie TS (Fig. 14)**

**Quickie IRIS (Fig. 15)**

- a. The center of gravity is adjusted by moving the rear axle forward or backward to the additional holes located along the frame.
- b. Rotating the entire axle brackets allows the user to use different wheel sizes and often different seat heights.

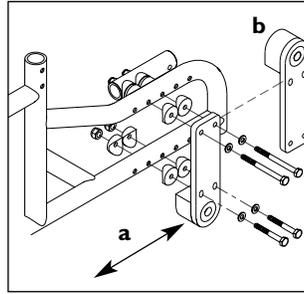


Fig. 14

**C. REMOVAL AND INSTALLATION OF DRIVE SHAFT ASSEMBLY**

**1. Installation (Fig. 16 & 16a)**

- a. Compress, twist and lock the drive shaft assembly.
- b. Insert one end of the drive shaft assembly into one of the axle tabs.
- c. Unlock the drive shaft assembly and insert it into the opposite axle tab.

**2. Removal**

- a. Compress, twist and lock the drive shaft assembly.
- b. Remove one end of the drive shaft assembly from one of the axle tabs.
- c. Remove the drive shaft assembly from the opposite axle tab.
- d. Unlock the drive shaft assembly and store it in the drive shaft mounting brackets.

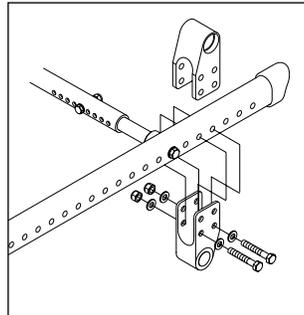


Fig. 15

**D. STORAGE OF DRIVE SHAFT ASSEMBLY**

- a. Drive shaft mounting (storage) brackets are mounted on the lower front frame and lower rear frame or on opposite ends of a crossbrace.

**NOTE:** On Zippie GS, drive shaft assembly may be stored on lower frame only.

- b. The drive shaft assembly may be placed in these brackets and stored for easy access.

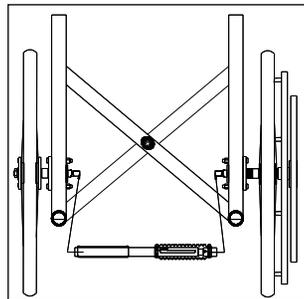


Fig. 16

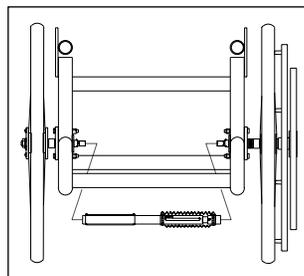


Fig. 16a (Quickie TS)

**E. REVERSING ONE-ARM DRIVE MOUNTING SIDES**

- a. The one-arm drive may be mounted on either side of the chair.
- b. Follow one-arm drive assembly instructions in reverse order to disassemble.
- c. To remount on opposite side follow one-arm drive assembly instructions.

**F. USE OF ONE-ARM DRIVE**

**⚠ WARNING**

Keep hand clear of center of the wheel or spokes when propelling the one-arm drive. This may cause a pinch or crush-type injury.

**I. One-Arm Drive Operation**

- a. To propel both wheels forward, push both the outer and inner handrim on the side the one arm drive is mounted.
- b. If the outer handrim is mounted on the right, push the outer handrim to turn the chair to the right. (Reverse this instruction if the outer handrim is mounted on the left.)
- c. If the outer handrim is on the right, push the inner handrim only to turn the chair to the left. (Reverse this instruction if the outer handrim is mounted on the right.)



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