

Worksmen Cycles TR16 and Junior Port-o-Trike Assembly Instructions, Parts List, and Owner's Manual

For all TR16 and Junior Port-o-Trikes

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Manual # TR16/JPT07

Proudly made in the USA!



Congratulations on your purchase of the TR16 or Junior Port-o-Trike Compact Folding Tricycle, two of the most popular recreational tricycles of all time. This is a recreational tricycle for the consumer market with a **recommended weight limit of 210 pounds**. These tricycles are very practical whether you choose to fold them or not. The low step through, compact frame design is ideal for smaller riders who simply want to ride leisurely, safely and comfortably. Both have been carefully manufactured in the USA with simple finishing assembly required. It is always recommended to have a qualified bicycle mechanic perform repairs and assembly of any cycle. Please read these instructions thoroughly prior to assembly and riding. Visit our website at www.worksmancycles.com to see our complete line of Worksmen recreational and industrial cycles. This manual covers assembly and replacement parts for the TR16 and Junior PT trikes.

Tools Required for Assembly

- Phillips Screwdriver
- Flat-head Screwdriver
- Pliers
- Adjustable Wrench

Carton Contents

- * Tricycle Frame Assembly
- * Handlebar
- * Seat
- * Cargo Basket

* Front Fork/Wheel Assembly, including:

- Handlebar Grips
- Handlebar Stem
- Reflector Kit
- Headset Parts
- Seatpost

A) Initial Assembly

- 1) Remove protective bubble wrap.
- 2) Loosen and swing the quick-release arm toward the rear of the tricycle. (Figure 1)
- 3) Unfold the Safety-Loc+hinge in center of frame until frame is straight and completely closed. (Figure 2)
- 4) Slide the arm/pin down into the hole in the lower section of the front hinge so that the hinge cannot fold accidentally.
- 5) Rotate the quick-release arm toward the front of the tricycle and pull quick-release arm up to tighten. (Figure 3)



FIGURE 1



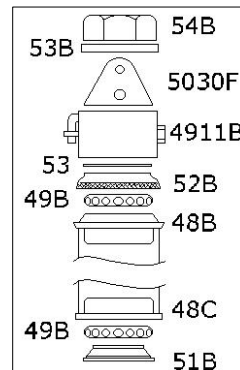
FIGURE 2



FIGURE 3

B) Front Wheel & Fork Assembly (See Headset Illustration)

- 1) Grease top race and bottom cup (48B) in fork head tube on tricycle frame.
- 2) Slide one bearing (49B) on to the fork/wheel assembly with balls facing downward onto the fork cone (51B).
- 3) Slide the fork/wheel assembly up into the frame head tube of the tricycle and center the bearings so it seats properly.
- 4) Slide the remaining bearing (49B) with balls facing downward over the fork steerer tube and onto the upper frame cone (48B), which is pre-mounted in the frame.
- 5) Grease top adjusting cone (#52B) and thread it onto the threaded fork steerer tube clockwise. Hand-tighten securely without binding. Make certain that the bearings are aligned properly before final tightening so the fork can rotate smoothly. Fork assembly should be free enough to turn, but not so free that it shakes. Do not overtighten.
- 6) Install thin key washer (53) above 52B cone with inner tab in slot of fork steerer tube.

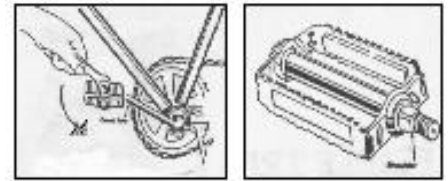


NOTE – If the 53 washer is not level, remove it and install one or two 53BWO (no inner tab) washers under it.

- 7) Place quick release clamp (4911B) on fork assembly with the arm in open position and slightly hand tighten the nut.
- 8) Install reflector bracket with inner tab lined up with slot of fork steerer tube.
- 9) Place thicker key washer (53B) over reflector bracket with inner tab lined up with slot on fork steerer tube.
- 10) Thread top lock nut (54B) clockwise onto fork assembly and tighten securely using an adjustable wrench. Be very careful not to cross-thread before tightening.

C) Handlebar and Parts Installation

- 1) Open fork quick-release (4911B) $\frac{1}{2}$ "-tightening arm (with black rubber handle.)
- 2) Insert the Handlebar Stem (55E) at least 4" into the fork steer tube with the head of the stem facing forward.
- 3) Hand-tighten the nut on the 4911B quick-release securely and close the L-Tightening arm). Note - You should be able to pull this arm closed without great pressure at this time. This will be readjusted at time of final assembly. Excessive force can cause damage. If the arm requires force to close, simply back the nut off a bit at this time.
- 4) Insert the handlebar (55F) into the opening of the stem. The handlebar ends should angle toward the rear of the tricycle. If the handlebar does not slip into the stem easily, simply loosen the adjusting bolt and use a flat head screwdriver to slightly pry open.
- 5) Once handlebar is inserted into the stem, using an adjustable wrench, tighten the adjusting nut. However, at this time, do not tighten fully as this will also be adjusted in final assembly process.
- 6) Install brake levers onto the handlebars.
- 7) Slide handlebar handgrips (55B) onto the bar end with finger points facing forward and slightly downward. It may be helpful to rinse grips in warm water for 30 seconds, dry and then install.
- 8) On 3 speed models, attach shift lever to handlebar.

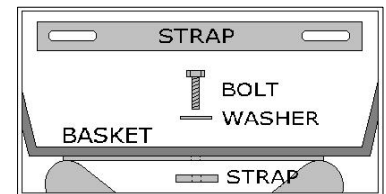


D) Installation of Pedals (See illustration)

Pedals are marked $\frac{1}{2}$ " for left and $\frac{3}{8}$ " for right on the threaded end of the pedal axle. Screw the right pedal marked $\frac{3}{8}$ " clockwise into the right crank arm (chain and sprocket side). Screw the $\frac{1}{2}$ "-pedal **counterclockwise** into the left crank arm. Secure pedals tightly. (Recommended torque: 275 pounds.) *Attempts to install pedals on wrong side will result in damage to the thread. DAMAGE CAUSED BY FAILURE TO FOLLOW THESE INSTRUCTIONS WILL NOT BE WARRANTIED.*

E) Installation of Rear Cargo Basket

- 1) Place basket on frame, centering basket between rear wheels and frame platform.
- 2) Place washers on basket bolts. Hold the metal strap under the basket and align the holes with the holes on the frame.
- 3) Slide bolts through basket holes, frame, and thread securely into the strap.

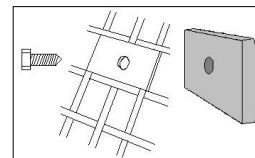


F) Installation of Seatpost

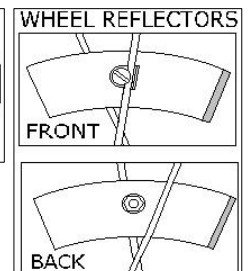
- 1) Place seatpost into saddle clamp located on the bottom of the saddle and slightly tighten saddle clamp securely using an adjustable wrench or socket. Make certain that the tapered end of the seatpost clamp is fully through the clamp. Open seatpost quick-release clamp on frame by pulling lever to loose position and loosening the nut. (Same as handlebar quick release operation.) Insert the seatpost into the frame to the desired height level (must be inserted at least 3.5"). Hand-tighten nut and push clamp arm to tightened position. Make certain at this point that the seatpost is tight and does not rotate.
- 2) Adjust the seat angle to desired position with the nose of the seat slightly up. Tighten saddle clamp with a wrench (35 pounds of foot torque). This must be tight to avoid rotation or slipping of the seat on the post. Adjustment of the seat height is a personal preference. However, it is recommended that the height be adjusted so that the ball of the foot comfortably touches the pedal when the knee is slightly bent and the pedal is in its lowest position.

G) Reflectors

- The rear reflector (red square) goes on the outside of the basket, and is bolted through the mount that is built into the basket as shown.
- The front reflector (white square) installs the same way, but it is bolted through the front reflector bracket that was installed in the headset assembly.

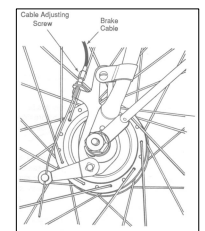


- The wheel reflectors (white arched or rectangular) install on the inside of the two layers of spokes. The spoke has a groove that will be facing you that is placed onto the spoke. Insert a bolt through the hole, sandwiching the spoke between the reflector and the head of the bolt as shown. The bolt will thread into a nut that must be placed into the back of the reflector.



H) Final Assembly

- 1) Handlebar- Open Quick Release Clamp. Reposition stem in frame to achieve the desired height, keeping minimum stem insertion at 4". (See Section C.) Squarely position the bars in line with front wheel and re-tighten the clamp.
- 2) Tires- Check for proper tire inflation. See sidewall of tire for maximum PSI. Maximum tire inflation is indicated on the sidewall of the tire.
- 3) Drum Brakes (if included) are pre-adjusted at the factory. However, if the wheel is not turning freely as a result of a tight drum brake, readjust the cable adjusting screw.



Make certain to read the manual prior to riding. Make certain to understand the rules of the road and safety instructions. Do not ride cycles after dark. In dusk or dawn, lights are recommended. Use of a helmet is always a good precaution, and may be required by law. Inspect your cycle regularly for wear of parts and replace as required. Only use factory original replacement parts. Lubricate chain, caliper brake pivot bolt and other parts as necessary and at least once every 6 months.

How to Fold Your Worksmen Folding Tricycle

To fold, pull the Safety-Loc lever to the loose position. Pivot the lever toward the side of the tricycle. Lift up on the arm, releasing the pin from the Safety-Loc hinge pinhole. You will then be able to fold the frame. Be careful to position the pedals for wheel clearance. (The front wheel should tuck in toward the rear of the frame to the inside of the left wheel.) To refold, see Section A of these instructions. *It is advisable to place grease in the pinhole on the frame hinge every so often so the "Safety-Loc" system works easily.*



Owner's Responsibility:

- 1) Make certain that all assembly instructions have been followed and that the tricycle is safe and ready to ride.
- 2) Perform maintenance as needed.
- 3) Provide instructions to anyone who may ride the cycle.
- 4) Conform to all local regulations, including traffic laws.
- 5) Be deemed physically fit to ride a cycle.

Where to Ride a Three Wheeler: It is recommended that you ride in areas that are paved and relatively flat. Avoid steep hills and naturally ride where you feel safe. Low traffic areas are most desirable.

How to Ride a Three Wheeler: Sit up straight when going straight. When turning, you should lean ever so slightly into the direction of the turn. Slow down prior to making a turn. Never make sharp turns. Steer by pointing the front wheel in the direction you wish to go. Note - Tricycles have a tendency to pull slightly to the left. This is common in all three wheelers.

It is common to hear some clicking noise that emanates from the chain when the tricycle is new. This will stop when the chain is broken in. (Chains stretch slightly when new.)

Brakes and 3 Speed Coaster Brake Information: Worksmen folding tricycles are equipped with a front caliper, drum brake, or both. Operate the hand brake by squeezing the lever on the handlebar. Coaster (foot) brakes are engaged by pedaling backwards until the brake operates. It is best to gently slow the cycle down using the hand brakes and completing the stop using the coaster brake. For those models with the 3 speed coaster brake, simply use the handlebar mounted shifter to select the desired gear. Gear 1 is the easiest gear for easier starting or going up hills, while gear 2 and 3 are useful once you get to your desired riding speed. Select the gear that suits your individual taste and comfort level. **DO NOT SHIFT AND PEDAL AT THE SAME TIME. PAUSE PEDALLING, SHIFT, AND RESUME PEDALLING.**

Replacement Parts List

Part # Description

Front End Assembly

153	Front Fork (specify color)	
50B	Head Parts Set - Complete	
4911B	Quick Release Clamp and parts (fork)	
48B	Ball Cup (Upper) for frame head	tube
48C	Ball Cup (Lower) for frame head	tube
49B	Bearings for Headset (pair)	
51B	Fork Bottom Cone (presses onto fork)	
52B	Threaded Top Adjusting Fork Cone	
53	Key Washer (Thin - Lower)	
53B	Key Washer (Thick - Upper)	
53BWO	Key Washer (Thin - w/o tab)	
54B	Top Fork Lock Nut	
55B	Hand Grips (pair)	
55E	Handlebar Stem	
55F	Handlebar	
5030F	Reflector Bracket	

Part # Description

Crank Assembly and Parts

7217	Pedals (pair)
1265	Crank Parts Set (All parts inside crank housing)
3275	Crank (5.5+ . Junior PT)
5275	Crank (4.5+ . TR16)
1380C	Front Sprocket - 36T

Fenders for Junior PT (Rear Fender Kit is sold separately)

95	L-Bracket - front fender	4801	Rear Fender
4800	Front Fender	4811	Rear Fender Brace
4802	Front Fender Brace	FS20	Rear Fender Kit

Seat and Related Parts

4908D	Seatpost . 15+
4908JR	Seatpost . 9+
4911A	Quick Release Clamp for Seat Post
4912V	Saddle- Wide (10+wide w/ springs - standard)
6911V	Saddle Wide (13+with springs - optional)

Frame Parts

3200CB-JR	Frame (Specify color)
4908K-S	Safety-Loc hinge bolt / lever



NOTE - When ordering wheels w/ tires, be sure to specify which tires you need - white wall, redline, or gumwall knobby.

Front Wheel and Related Parts

TR16 Front Wheels

- 463A 16+Front Drum Brake Wheel w/o tire
- 463 16+Front Drum Brake Wheel w/tire
- 1014G Spokes - 16+front drum wheel (Qty 36)
- 1014X Spokes for 16+rear wheels (Qty 36)
- M16-28 Rim - 16+- Rim Only! (Not a built wheel)

Junior PT Front Wheels

- 467A 20+Front Drum Brake Wheel w/o tire
- 467 20+Front Drum Brake Wheel w/tire
- 1014H Spokes - 20+front drum wheel (Qty 36)
- 1014I Spokes for 20+rear wheels (Qty 36)
- M20A Rim - 20+- Rim Only! (Not a built wheel)

Front Brake Parts

- 2002A Front Caliper Brake Assembly
- G250 Front Drum Brake (Hub only!)
- G219 Front Drum Brake Cable and Housing
- G219A Front Caliper Brake Cable and Housing
- F820L Non-Locking Brake Lever . Left (Std)
- F820R Non-Locking Brake Lever . Right (Std)
- F852L Locking Brake Lever . Left (Optional)
- F852R Locking Brake Lever . Right (Optional)

Tires, Tubes, Wheel Parts

- 6042 Tire 16x1.75 White Wall
- 6012W Tire 20x1.75 White Wall
- 6012R Tire 20x1.75 Red Line
- 6012GW Tire 20x1.75 Knobby Gum Wall
- 4923P Tube 16x1.75
- 6012A Tube 20x1.75
- 1017C Rim Strip . 16+
- 1017A Rim Strip . 20+

Transmission and Related Parts

- 301 Coaster Brake Hub (PTCB)
- 4910 Chainguard
- 4914M Chain Connecting Link
- 4914L Chain-Long (PTCB, PT3CB)
- 4916 Chain Idler Sprocket

Accessories . Options and accessories are always being added! Visit www.worksmancycles.com for a complete list!

- 3979 Ding Dong Bell
- 303 Squeeze Bulb Horn
- 101710 Flashing Strobe Light- White Lens
- 7917C1 Back Rest
- 7217GS12 Flashing Light Pedals (Very cool!)
- 3973 Battery Operated Mega-Horn
- FS20 Rear Fender Kit (Pair)
- 101714 Flashing Strobe Light- Red Lens
- 133WH Front Basket with bracket (Removable w/ handles!)
- 3961 Cup Holder

** On 3 speed models, please note the brand and shifter style. Your Worksmen PT3CB will be equipped with a quality 3 speed and shifter, but brand and shifter style may vary. Parts listed here are the most commonly used Sturmey Archer style. For Shimano Parts, call 718-322-2000.

Limited Warranty

Commercial use voids this warranty. This is a consumer model. Worksmen Trading Corporation makes a full array of industrial and recreational cycles. Visit our website at www.worksmancycles.com to view the many quality cycles we offer. This cycle is warranted against faulty parts under the following conditions: This warranty does not cover any failure due to accident, abuse, misuse, neglect, or as a result of normal wear and tear, or by assembly errors performed by a non-qualified mechanic. The entire frame including all welded joints in warranted to be free of defects in material and workmanship for one (1) year while in the possession of the original purchaser. All other parts on this cycle (except tires and tubes) are warranted for 90 days from date of purchase. Proof of purchase is required and completed warranty cards must be received in our office prior to any claims being considered. The manufacturer reserves the right to have all defective parts returned at purchasers expense for examination prior to resolving the claim. If upon examination the manufacturer deems the part to be defective and within the warranty period, a replacement part will be sent at no charge, with the exception of shipping. Unauthorized repair of parts voids warranty. Proper maintenance is required for the warranty to be valid. If it is determined by the manufacturer or the dealer that the part in question is not covered under warranty, we will advise the cost to repair or replace the part. The sole responsibility of the manufacturer pursuant to the terms of this warranty is the replacement or repair of the parts in question. The liability of the manufacturer shall in no event exceed the original purchase price of the model and the manufacturer shall not be liable for any consequential damages of any nature including but not but not by way of limitation damages for personal injuries or to property. This statement constitutes the exclusive expression of warranties by the manufacturer and is in lieu of any and all other warranties including expressed warranties, any implied warranties, including but not limited to warranties of merchantability and fitness or purpose, are limited in duration to one year of purchase for the frame (excludes fork) and ninety (90) days for other parts as covered in this warranty. Cycles are not intended for off road use, stunt riding or similar activities. Should an approved electric bicycle assist be added to the cycle, the purchaser is responsible for meeting any local laws. Such modifications void warranty. Void where prohibited by state law. The seller is not responsible for typographical errors or omissions. Manufactured by Worksmen Trading Corporation

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Rear Axle and Related Parts

- 174HD Bearing for rear axle/wheels (cartridge style 5/8+)
- 176 Rear Axle w/ drive plate (round disk w/ 3 prongs)
- 176W Rear Axle spacer washer
- 4129A Rear Freewheel Sprocket (PT, PT2F)
- 57 Rear Axle Elastic Lock Nut
- 62 Bushing (5/8+for 4129A)
- 62B Set screw for 62 or 69B
- 62C Keyway for 62 or 69B
- 69B Fixed Drive Sprocket (5/8+PTCB, PT3CB)

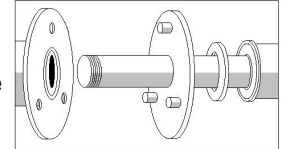
Rear Drive (Right-Side) Wheels

TR16

- 464DA Rear 16+Drive Wheel w/o tire
- 464D Rear 16+Drive Wheel w/ tire

Junior PT

- 468DA Rear 20+Drive Wheel w/o tire
- 468D Rear 20+Drive Wheel w/ tire



Rear Free (Left Side) Wheels

TR16

- 464A 16+Rear Wheel w/ 2 bearings w/o tire
- 464 16+Rear Wheel w/ 2 bearings w/ tire

Junior PT

- 468A 20+Rear Wheel w/ 2 bearings w/o tire
- 468 20+Rear Wheel w/ 2 bearings w/ tire

Miscellaneous Parts

- 5927WA Rear Basket
- 5927BB Rear basket mounting strap with hardware
- 5030T Reflector Kits for Tricycles
- SA14-1 3 Speed Shifter and Cable (Sturmey Archer**)