

Worksman Front-Loader Tricycles - Assembly Manual and Parts List

Worksman Cycles . 94-15 100th Street . Ozone Park, NY 11416 (888) 3-WHEELER . www.worksmancycles.com

Manual # FL09



Models STPT, U, SUD, ICT

Thank you for choosing your Worksman Front-Loader Tricycle. Your new Worksman business cycle is an American-made work vehicle with over 100 years of heavy duty, cargo-lugging experience in hundreds of industries around the world! Worksman Front-Loaders are incredibly durable and, with proper maintenance, will lead to decades of reliable service.

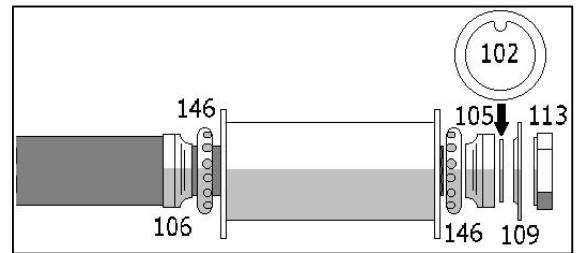
Since we use heavy-duty components, and not standard bicycle parts, it is important that only Worksman factory replacement parts be used when repairing your cycle. Ride safely, and follow the rules of the road.

This manual is designed to assist you in assembling the cycle and identifying proper parts when they need repair or replacement. **Assembly should always be performed by a qualified mechanic.** If you have any further questions, feel free to call our customer service department.

ASSEMBLY INSTRUCTIONS: These instructions are predominately for the front end of the tricycle. Read them fully prior to assembly. The rear chassis is fully assembled already with the exception of the seat and the pedals. You will need a socket set, a flat-head screwdriver, Phillips screwdriver, pliers, an adjustable wrench, and grease.

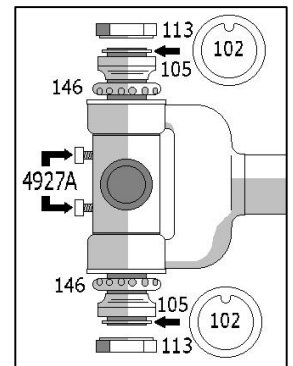
Attaching Front Wheels to Axle: (See illustration.)

- 1) Grease the wheel hub cups (103) using Mobile Special Grease B or Rustolene 200 or equivalent bearing grease.
- 2) Insert one bearing (146) onto axle so that the balls of the bearings are facing the wheel hub cup. Place wheel onto the axle. Place second bearing onto the axle so that the balls face the cup of the wheel.
- 3) Thread on the outside adjusting cone (105). (Note: Left-hand thread!) Hand-tighten using a punch, ice pick, or small Phillips head screwdriver. After hand tightening back off a ¼ turn.
- 4) Install key washer (102) and dust washer (109).
- 5) Install left hand lock nut (113). Thread down and tighten fully. Wheels should spin freely without any wobble left to right or up and down. If too tight or too loose, readjust adjusting cone.



Attaching Axle to the Frame: (See illustration.)

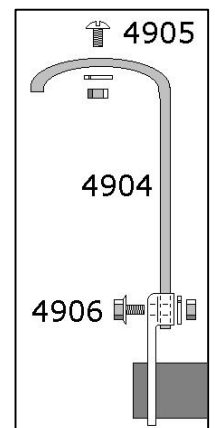
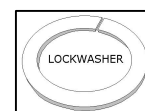
- 1) Remove the top nut (113), adjusting cone (105), and washer (102) from the head spindle assembly, which is shipped in the head lug of the frame. The spindle will drop out through the bottom of the head lug.
- 2) Position the center of the axle into the front portion of the frame with the spring-mounting plates facing up and spindle set-screws (already installed) facing forward.
- 3) Re-insert the spindle with the two flat spots on the spindle facing the set-screws.
- 4) Tighten the set-screws against the flat spots on the spindle, thus holding the axle firmly in place.
- 5) Re-install bearing (146), adjusting cone (105), keywasher (102), and locknut (113) as shown.



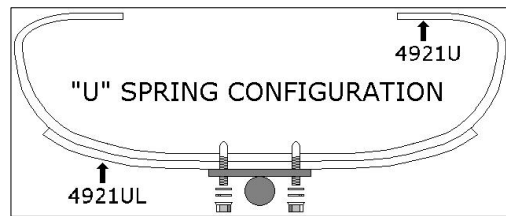
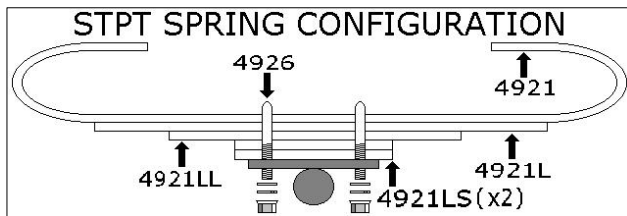
Fender Installation: (See illustration.)

If your tricycle is equipped with fenders (4902A) for the front wheels, the axle will have a three pronged wing on each side upon which the individual U-shaped steel fender braces (4904) are to be attached.

- 1) Using ¼" x ¾" HEX head bolts, lockwashers (shown), and serrated nuts (4906), attach brace to wing.
- 2) Place fenders over the top of the braces, align holes, and use ¼" x ½" ROUND head slotted screws on top of fender and the lockwashers and nuts (4905) on bottom.



Mounting Leaf Springs to Axle: (See illustration.)



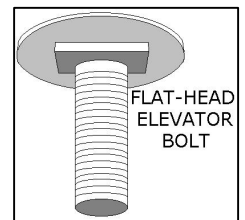
- 1) STPT - Position two short 4+spring spacers (4921LS) on the axle plate. (No short spacers on $\frac{1}{2}$ +))
- 2) STPT - Place the 4921LL (9+) and 4921L (17+) spring spacers on top of the short 4+spacers.
 $\frac{1}{2}$ + - Place the 4921UL (19+) curved spring spacer on top of the axle plate.
- 3) Place the leaf spring with the curve facing UP on top of the spacers, centering it on the axle.
- 4) Using both of the $\frac{1}{2}$ +bolts provided, clamp the spring and spacers through the axle plate and tighten. Be sure to put a lockwasher between the flat washer and the serrated hex nut.
- 5) Repeat for other side of axle.

Attaching Platform or Cabinet to Leaf Springs:

NOTE: Make sure handlebar mount holes on platform or cabinet are facing the rear of the tricycle.

Platform

- 1) Place platform onto springs, lining up the holes in the platform with the holes in the open springs.
- 2) Insert FLATHEAD elevator bolts through the platform and tighten using the flat washer, lockwasher, and serrated hex nut . in that order.
- 3) Tighten to pull bolt square through hole in platform to lock in place.



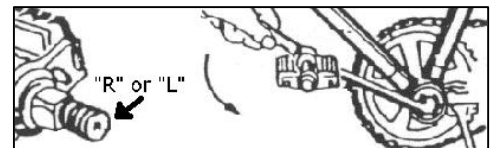
Cabinet

For cabinets, elevator bolts are already mounted through the undercarriage. The 2x4 wood strips, which protect these bolts, must be removed BEFORE positioning the cabinet onto the springs.

Mounting the Handlebars: Position handlebar, lining up the holes in handlebar with the holes in the platform or cabinet. Insert 5/16+X $\frac{3}{4}$ +ROUND-HEAD bolts and hardware provided.

Install Pedals: Pedals are marked "R" or "L" on the threaded end of the pedal. Attempts to install the pedals on the wrong side or tighten in the wrong direction will damage the threads and will NOT be warranted.

- 1) Slightly grease pedal threads prior to attaching to crankarms.
- 2) Install $\frac{1}{2}$ R+pedal on right side and tighten CLOCKWISE.
- 3) Install $\frac{1}{2}$ L+pedal on left side and tighten COUNTER-CLOCKWISE.



Install Seat and Seatpost:

- 1) Insert seatpost into seat clamp on bottom of seat. Do not tighten yet.
- 2) Install seatpost into frame. Do not tighten yet.
- 3) Adjust angle of seat with nose raised slightly. Tighten seat clamp bolt securely. (240 IN. LBS.)
- 4) Adjust the seat height to your desired level. Make sure a minimum of 3 1/2+of the post remains in the frame tube. Never adjust post above this level, which is marked on the seat post.
- 5) Tighten seat tube clamp at top of seat tube.

MAINTENANCE TIPS:

Always inspect your Worksman Cycle to ensure that all nuts, bolts, screws and hardware are tight and that no parts are worn or damaged. Do not attempt to straighten bent frames.

Chain:

Lubricate chain once a month or as needed with light oil. Replace sprockets when teeth become worn, bent or broken. Keep chain adjusted so there is no more than 3/8+slack. Note that we leave the chains tight at the factory, as we do know they will stretch during the break-in period. Lubricate crank parts every six months. Replace pedals when the surface is worn or if axle becomes $\frac{1}{2}$ ight+ or frozen.



Coaster Brake (if applicable):

FRONT LOAD TRICYCLES ARE INTENDED FOR FLAT AREAS. BECAUSE FRONT LOAD TRIKES HAVE ONLY A REAR BRAKE, USE CAUTION WHEN GOING DOWN SLIGHT GRADES, AND KEEP LIGHT PRESSURE ON THE BRAKE TO AVOID BUILDING UP TOO MUCH SPEED.

Foot-activated coaster brakes are reliable and easy to use. To activate the brake, reverse the pedaling motion until the brake engages. To avoid skidding and maintain control, apply care when braking. This is especially true on wet surfaces. Apply brakes gently, gradually increasing pressure. Replace coaster brakes when they become worn. Check chain tension regularly. Coaster brake hubs may make a vibrating noise under braking when new until they are broken in. For three and seven-speed units, pause pedaling to help mesh gears. (Let the cycle coast.) This will make shifts smoother and will reduce wear and tear on the hub. Do not shift when pedals are not moving as damage could occur.

Tires:

Always check for worn or damaged tires. We recommend 40PSI as proper level of inflation. Replace or repair tubes that show leaks.

LIMITED WARRANTY:

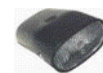
This cycle is warranted against faulty parts under the following conditions: this warranty does not cover any failure due to accident, abuse, misuse, neglect or as the result of normal wear and tear, or improper assembly. The entire frame, including all welded joints, is warranted to be free from defects and material for one year while in possession of the original purchaser. All other parts on this cycle, except tires and tubes, are warranted for Ninety days from the date of purchase. Repair and replacement of these parts is to be according to the Worksmen cycles parts and service procedures and must be handled directly through the source where the cycle was purchased. If upon examination of the parts in question, the Worksmen Cycle dealer determines that it is defective, either repair or replacement will be made at no cost except the cost of transportation and labor charges (if any). Unauthorized repairs or replacement automatically voids warranty. Proper maintenance is required for warranty to be valid. In the event that it was determined that the warranty claim is the result of misuse, abuse, improper maintenance or simply not defective or beyond the warranty period, Worksmen Cycles or the dealer will advise you as to the cost of repair, replacement or labor prior to performing any work or replacing any parts. If you choose not to have the dealer or Worksmen Cycles perform the work, the parts will be returned to you at your expense or discarded if no reply is received within two weeks of notification. The sole responsibility of the manufacturer to the terms of this warranty, if any, shall be the repair and/or replacement of the parts as indicated above. The liability of the manufacturer shall in no event exceed the original purchase price of the product, and the manufacturer shall not be responsible for any consequential damages of any nature, including, but not by way of limitation, damages for personal injury or property. This statement constitutes the exclusive expression of warranties by the manufacturer and is in lieu of any or all other warranties such as expressed warranties, implied warranties, including but not limited to warranties of merchantability, and fitness or purpose, are limited in duration for one year from the date of purchase of the frame only and 90 days for all other parts, except tires and tubes which are not warranted. Worksmen Trading Corporation is the manufacturer. Misuse of the cycles including off road riding, installation of motors or power assists, alterations, repairs using parts other than genuine Worksmen Cycle parts voids warranty. Worksmen Trading Corporation is not responsible for maintaining records of serial numbers. Void where prohibited by state law.

WORKSMAN CYCLES ACCESSORIES: Worksmen offers a complete line of accessories for added safety and customization. If your Worksmen Front-Load Business Cycle is to be used outdoors, reflectors are recommended and may be required by law.

PART #	DESCRIPTION	PRICE	WHY SHOULD YOU GET IT?
P2	Ding-Dong Warning Bell	\$8.50	Alerts others to your presence with a loud, crisp sound.
P3	Squeeze Bulb Horn	\$9.75	Alerts others to your presence with a loud honking noise.
P4	Vinyl Covered Cable w/ Padlock	\$9.75	Prevents / deters cycle theft. Secures cycle components.
P5	Chrome Rear View Mirror	\$9.75	Allows riders to see behind themselves for better safety.
P6	Reflector Kit for Tricycles	\$8.50	Lets others see cycle from all directions. Increases safety.
P7	Headlight (Battery Operated)	\$14.50	Lights area ahead and allows others to see cycle coming.
P8	Safety Flag on Pole (Bright Orange)	\$8.00	Increases height of visibility. Allows others to see cycle.
P18	LED Light Pedals - Glowspeck	\$21.00	Flashing pedals - w/o batteries! Very bright & safe!
P19	Bicycle Helmet (Adult)	\$39.95	Provides added safety. (May be required by law.)
P101710	Flashing Strobe Light (Clear)	\$12.95	Increases cycle visibility.
P101714	Flashing Strobe Light (Red)	\$12.95	Increases cycle visibility. (May be required by law.)
P3973	Mega Horn (Super-Loud Battery Operated)	\$21.95	Alerts others with a 105-dB electronic sound.
1000	Tool-Spoke Tightening Wrench	\$8.21	Adjust spokes as needed.
1001	Tool-Pedal Wrench	\$16.24	Makes Pedal Installation and removal convenient.
1006	Air Pump (for tire inflation)	\$19.77	Keep tires properly inflated for best ride characteristics.
1265TW	Tool-Crank Cone Wrench	\$6.99	Makes crank cone adjustment more convenient.
2000	Tool-Chain Rivet Remover	\$45.14	Makes chain removal and repairs convenient.
3961	Cup Holder (Tube or basket mounted)	\$28.00	Holds cans, bottles, and mugs with handles!



Mega-Horn



Head Light



Flashing Light

PRICES LISTED ABOVE ARE SUBJECT TO CHANGE. PLEASE CALL FOR PRICING!

888-3-WHEELER

WORKSMAN FRONT-LOAD TRICYCLES - REPLACEMENT PARTS LIST: (STPT, U, SUD, ICT)

	FRONT AXLE AND RELATED PARTS		CRANK PARTS
4918	Axle: %U+SUD/ICT: 31½+(w/o opt fender wings)	7217	Pedals (pair)
4918A	Axle: STPT: 37½+(w/ opt fender wings)	1265	Crank parts set (1266,1268,1269,1271,1272,1273,1274)
4918D	Axle: ICT/SUD: 34½+(w/ opt fender wings)		Crank bearings (pair)
4921	Leaf Springs . STPT, SUD, ICT	1266	Crank assembly . COMPLETE (1265,1275,1380D)
4921U	Leaf Springs . %U+	1267D	Ball cups
4926	U-bolt w /nut, washers for 4921, 4921U		Inside stationary washer
4927A	Bolt . Square head for axle spindle	1268	Key washer (for cranks)
131	Front wheel parts set to attach wheels (2-105,2-102,2-109,2-113,2-146)	1269	Adjusting cone . Outside
		1271	Stationary cone . Inside
4937	Head lug spindle	1272	Outside locknut
4937A	Head lug spindle w/ attachment parts (1-4937,2-105,2-102,2-113,2-146)	1273	Crank (6 ½+)
		1274	36 tooth front sprocket
101	Wheel hub (hub only - front)	1275	32 tooth front sprocket
102	Key washer (for wheels, spindle)	1380D	28 tooth front sprocket
103	Wheel cups (pressed into hub)	1380F	
105	Adjusting cone	1380H	
106	Stationary cone (pressed on axle)		FENDERS AND BRACES
109	Dust washer		Fender (rear)
113	Axle locknut (left-hand thread)	4901	Fender (front)
146	Wheel bearings (pair)	4902A	Braces for front fender (set of 3)
		4904	Bolt/nut/washer (to mount fender to brace)
		4905	Bolt/nut/washer (to mount brace to wing)
300	COASTER BRAKE HUB AND PARTS	4906	Bolt/nut/washer (to mount rear fender to brace)
401	Coaster brake hub ONLY . Shimano E110	4907	Brace for rear fender
SS721	Coaster brake hub - 3 speed w/ shifter & cable	83	
SS148	Coaster brake (Shimano E110) internal parts		
SS12N	Coaster brake sprocket (22T. Shimano)		
	Shifter Trigger and Cable for Nexus		
			SEAT, SEATPOST, AND RELATED PARTS
	CHAINS AND CHAINGUARD	4912V	Seat (10+wide w/ springs . standard)
4910A	Chainguard	6911V	Seat (13+wide w/ springs . optional)
4914A	Master Link	4908B	Seatpost
4914C	Chain (105 links, ½+x 3/16+)	7913A-V	Seat clamp (under seat)
4915B	Chain adjuster	4911A	Quick-release seat tube clamp (not standard)
		4911C	Seat tube clamp (at top of seat tube of frame)
			TUBES ARE TIRES
1008A	WHEELS AND RELATED PARTS	4922	Tire . 20+front
1008	Wheel . Front 20+w/o tire & tube	4922KV	Tire . 20+front . Kevlar
1008S	Wheel . Front w/ standard tire & tube	4938A	Tire . 20+front - SOLID
1008KVPR	Wheel . Front w/ Kevlar tire & PR tube	4922A	Tire . 26+front
4136A	Wheel . Rear 26+w/o tire & tube	4922AKV	Tire . 26+front . Kevlar
4136	Wheel . Rear w/ standard tire & tube	4939	Tire . 26+front - SOLID
4136S	Wheel . Rear w/ solid tire	4923	Tube . 20+front
4136KVPR	Wheel . Rear w/ Kevlar tire & PR tube	6023	Tube . 20+front . Puncture Resistant
4136CSSAL	Wheel . Rear w/ alloy rim, stainless spokes	4923A	Tube . 26+front
SMX263CB	Wheel . Rear 3 speed w/ shifter & cable	6023A	Tube . 26+front . Puncture Resistant
SMX267CB	Wheel . Rear 7 speed w/ shifter & cable		
8132SA	Wheel . Mag Front 20+w/o tire & tube		
8132	Wheel . Mag Front w/ standard tire & tube		
8132S	Wheel . Mag Front w/ solid tire	4900ST	FRAME, CABINET, PLATFORM, & HANDLEBAR
8132KVPR	Wheel . Mag Front w/ Kevlar tire & PR tube	4900ST3	Frame . 1 speed
1015	Rim ONLY . 20x2.125+Clincher . Chrome	4900ST7	Frame . 3 speed
1016	Rim ONLY . 26x2.125+Clincher . Chrome	4125	Frame . 7 speed
1016AC	Rim ONLY . 26x2.125+Clincher . Alloy	4921LS	Elevator bolt, nut, washers
1014A	Spokes - 26+rear wheel (10 9/16+, 11G)	4921LL	Spacer leafs springs (4+- STPT)
1014E	Spokes - 20+front wheel (7 3/16, 11G)	4921L	Spacer leafs springs (9+- STPT)
1014SS	SS Spokes . 26+rear wheel (10 9/16+, 11G)	4921UL	Spacer leafs springs (17+- STPT)
1017	Rim Strip . 26+	4929	Spacer leafs springs (19+curved . %U+)
1017A	Rim Strip . 20+	4931	Handlebar . SUD
		4934A	Handlebar . %U+and STPT
		4935	Handlebar . ICT
5030D	PARKING BRAKE & REFLECTORS (Options)	4936	Handlebar bolt/nut/washer set
L752L	Reflector Kit (Front, rear, 3 wheels)	3927STPT	Handlebar nut/washer set for ICT ONLY
G219A	Brake Lever	3927U	Platform . STPT . 38+x 26+x 3+
2002	Brake Cable	3927T	Platform . Model %U+ . 34+x 30+x 3+
	Caliper Brake w/ brake pads	7226	Cabinet . SUD (42Lx23Wx25H - Call for Ice Cream boxes.)
			Basket . Rear twin double basket w/ rack