

Workman Front-Loader Tricycles - Assembly Manual and Parts List

Manual # FL09



Models STPT, U, SUD, ICT

Thank you for choosing your Workman Front-Loader Tricycle. Your new Workman 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! Workman Front-Loaders are incredibly durable and, with proper maintenance, will lead to decades of reliable service.

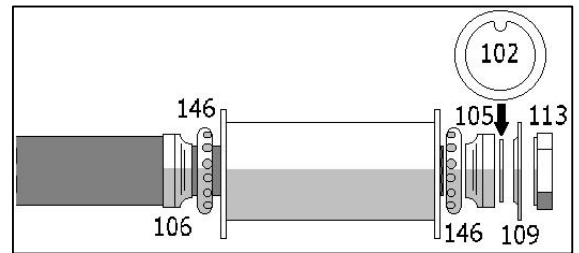
Since we use heavy-duty components, and not standard bicycle parts, it is important that only Workman factory replacement parts be used when repairing your cycle. Ride safely, and follow the rules of the road.

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.

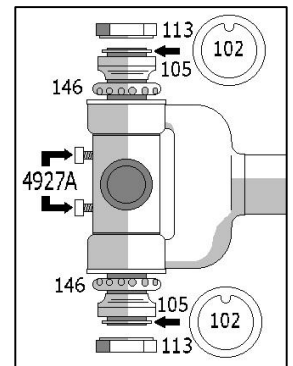
Attaching Front Wheels to Axle: (See illustration.)

- 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.)

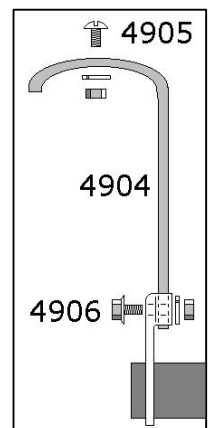
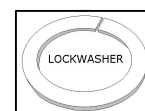
- 1) Remove the top nut (113), adjusting cone (105), and washer (102) from the head spindle assembly, which is shipped in the head lug of the frame. The spindle will drop out through the bottom of the head lug.
- 2) Position the center of the axle into the front portion of the frame with the spring-mounting 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.



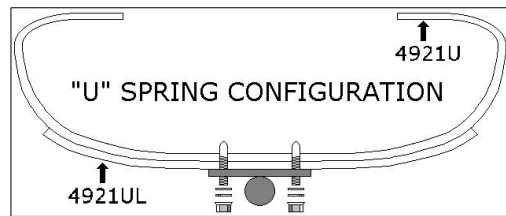
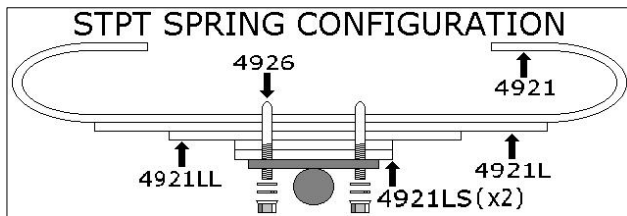
Fender Installation: (See illustration.)

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.)



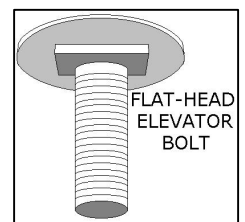
- 1) STPT - Position two short 4+spring spacers (4921LS) on the axle plate. (No short spacers on $\frac{1}{2}$ +))
- 2) STPT - Place the 4921LL (9+) and 4921L (17+) spring spacers on top of the short 4+spacers.
 $\frac{1}{2}$ + - Place the 4921UL (19+) curved spring spacer on top of the axle plate.
- 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.



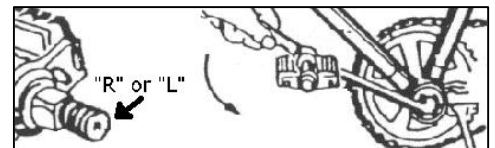
Cabinet

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.



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)	1271	Adjusting cone . Outside
4937	Head lug spindle	1272	Stationary cone . Inside
4937A	Head lug spindle w/ attachment parts (1-4937,2-105,2-102,2-113,2-146)	1273	Outside locknut
		1274	Crank (6 ½+)
101	Wheel hub (hub only - front)	1275	36 tooth front sprocket
102	Key washer (for wheels, spindle)	1380D	32 tooth front sprocket
103	Wheel cups (pressed into hub)	1380F	28 tooth front sprocket
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)
		4906	Bolt/nut/washer (to mount rear fender to brace)
		4907	Brace for rear fender
		83	
	COASTER BRAKE HUB AND PARTS		
300	Coaster brake hub ONLY . Shimano E110		
401	Coaster brake hub - 3 speed w/ shifter & cable		
SS721	Coaster brake (Shimano E110) internal parts		
SS148	Coaster brake sprocket (22T. Shimano)		
SS12N	Shifter Trigger and Cable for Nexus		
	CHAINS AND CHAINGUARD		SEAT, SEATPOST, AND RELATED PARTS
4910A	Chainguard	4912V	Seat (10+wide w/ springs . standard)
4914A	Master Link	6911V	Seat (13+wide w/ springs . optional)
4914C	Chain (105 links, ½+x 3/16+)	4908B	Seatpost
4915B	Chain adjuster	7913A-V	Seat clamp (under seat)
		4911A	Quick-release seat tube clamp (not standard)
		4911C	Seat tube clamp (at top of seat tube of frame)
	WHEELS AND RELATED PARTS		TUBES ARE TIRES
1008A	Wheel . Front 20+w/o tire & tube		Tire . 20+front
1008	Wheel . Front w/ standard tire & tube	4922	Tire . 20+front . Kevlar
1008S	Wheel . Front w/ solid tire	4922KV	Tire . 20+front - SOLID
1008KVPR	Wheel . Front w/ Kevlar tire & PR tube	4938A	Tire . 26+front
4136A	Wheel . Rear 26+w/o tire & tube	4922A	Tire . 26+front . Kevlar
4136	Wheel . Rear w/ standard tire & tube	4922AKV	Tire . 26+front - SOLID
4136S	Wheel . Rear w/ solid tire	4939	Tube . 20+front
4136KVPR	Wheel . Rear w/ Kevlar tire & PR tube	4923	Tube . 20+front . Puncture Resistant
4136CSSAL	Wheel . Rear w/ alloy rim, stainless spokes	6023	Tube . 26+front
SMX263CB	Wheel . Rear 3 speed w/ shifter & cable	4923A	Tube . 26+front . Puncture Resistant
SMX267CB	Wheel . Rear 7 speed w/ shifter & cable	6023A	
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
		4936	Handlebar bolt/nut/washer set
		3927STPT	Handlebar nut/washer set for ICT ONLY
		3927U	Platform . STPT . 38+x 26+x 3+
		3927T	Platform . Model %U+ . 34+x 30+x 3+
		7226	Cabinet . SUD (42-Lx23-Wx25-H - Call for Ice Cream boxes.)
			Basket . Rear twin double basket w/ rack
5030D	PARKING BRAKE & REFLECTORS (Options)		
L752L	Reflector Kit (Front, rear, 3 wheels)		
G219A	Brake Lever		
2002	Brake Cable		
	Caliper Brake w/ brake pads		