

# WORKSMAN SIDE BY SIDE TEAM DUAL TRIKE INSTRUCTIONS AND PARTS LIST

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www.worksmancycles.com

Parts list SBST-0513



## Worksman Side by Side Team Dual Trike

Congratulations! You have purchased an American Made Worksman Team Dual Tricycle. This is one of the most unique adult tricycles in the world. It combines comfort with durability, a truly unique combination. We utilize the components and technology used on our world famous Worksman Industrial Cycles to insure your satisfaction.

Before assembly and riding, make certain to read this manual and any other literature provided thoroughly. Always follow the rules of safe riding. Always keep

your Worksman Tricycle in tip-top shape by replacing worn parts as needed with Genuine Worksman Cycles Parts. (Do not use generic bicycle parts.) With simple maintenance, your Worksman will perform reliably day after day, year after year.

Your Team Dual Tricycle has been hand-made in the USA by our American craftspeople with American and foreign components. Our reputation rides along with you, so your ultimate satisfaction is our goal. **Completion of this cycle and final adjustments should be performed by a qualified bicycle mechanic. Failure to do so could result in injury or death.**

## Worksman SBST Parts List

### Frame, Fork and Related Parts

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
72SBCB	Frame Only- Specify color	3928S	Basket frame support
5020HD	Fork (Black) w/ Brake Insert Tab	5020HD-SP	Fork (other color- please specify)
48	Head Set Cups (pair)	49	Headset Bearings (pair)
50A	Headset Complete (48,49,52,53,54)	51	Bottom Cone (presses on Fork)
52	Top Adjusting Cone (threaded)	53	Key Washer
54	Fork Top Lock nut	55SBS	Tiller Handlebar
55U	Stem for Handlebar	55Y	Foam Handlebar Grips (set)

### Front Drum Brake Parts (See wheel section for complete front drum brake wheels.)

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
L500-F	Front Drum Brake Hub (Hub only)	L509	Axle (for pressed bearing)
L725-1	Drum Brake Plate Kit w/ Brake Pads	L517	Pressed Bearing (each)
F852R	Brake Lever w/ Parking Lock	F719-SBST	Drum Brake Cable and Casing (55+)
F769	Anchor Bolt Assembly for F719-SBST Cable	F770	Adjusting Barrel for F719-SBST Cable

### Rear Axle and Related Parts

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
64M	Woodruff Key	59M	Axle Locknut
58SBS	Rear Axle (EACH - Left or right are same)	69	Fixed Drive Sprocket w/ Key & Set
62C	Key (Fits in axle slot between 69 sprocket & axle)	63B	Set screw for 69
M13975	Side/Center Bearing with Plate (each)	301M	1 spd Coaster Brake w/Dual Sprockets
404SBST	3 Speed Coaster Brake w/Dual Sprockets	SS721	Internal Parts Kit for 301M
4915E	Chain adjuster (3 speed)	4915E-55mm	Chain Adjuster (1 speed)
SS12N-3	3 Speed Cable and Trigger for 404SBST		



Email: cycles@worksman.com

### Crank and Crank Parts (Pedal Section) and Chains

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
1265	Crank Parts (1266,1268,1269,1271,1272,1273,1274)	1265BMXS*	Deluxe Sealed Crank Set (Upgrade)
1266	Crank Bearings (pair)	1267F	Complete Crank Set w/ 32T Sprocket
1267H	Complete Crank Set w/ 28 T Sprocket	7217	Pedal Set (Pair)
1268	Cups for crank housing (pair)	1269	Stationary washer (inside)
1271	Key Washer- Outside	1271	Key Washer- Outside
1272	Adjusting Cone (threaded)-Outside	1273	Stationary Cone- Inside
1274	Crank Locknut	1275	Crank-forged- 6.5+
1380F*	Sprocket (32 Tooth)	1380H**	Sprocket 28 Tooth
4910A	Chainguard	4914A	Chain Connecting Link (1/2x3/16+)
4914SBST	Long Chain (163 links, 28T)	4914SB	Long Chain (165 links, 32T)
4914ST	Short Chain (39 links)	4915	Chain Adjuster (for Coaster Brake)

\* The 1265BMXS is a sealed, heavy-duty crank bearing upgrade.

\*\* The SBST comes standard with a 32T front sprocket. The SBST-3CB comes standard with a 28T front sprocket.

### Seat, Fenders, Baskets and Cabinets

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
8220	Front Fender	4902	Side Fender (L or R)
M13994	Side Fender Brace (L or R)	95	Bracket-attach Front Fender to Fork
4905	Bolt set for attaching 4902 to top of M13994	4907A	Bolt Set to attach 8220 to Fork
4906	Bolt Set for bottom of M13996	MSF24	Complete Side Fender Kit w/ Braces
42	Rear Basket 18x13x6+	3928S	Rear Basket Frame
3927PAV	Rear Cabinet 22x15x8+(optional)	7912THB	High Back Seat
7912AHB	Swivel Down Armrest Set (optional)	791C	Canopy Roof Set Complete
5927BB	Basket Strap- to mount to frame	4909SB	Tightening Bolt for Seat
CANOPY-SBST-BLK	Replacement Vinyl for Canopy - Black		

NOTE- SBST COME WITH A FRONT FENDER AS STANDARD EQUIPMENT. THE SIDE FENDER SET MAY BE ADDED AS AN OPTION BY ORDERING PART # MSF24 SHOWN BELOW. CARRY ADDITIONAL SUPPLIES WITH THE OPTIONAL HEAVY HAULER TRAILER.



Optional Heavy Hauler Trailer with Optional Basket



Optional Rear Fender Kit

### Wheels and Tires

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
7720A	Front Wheel 20+w/Drum Brake w/o Tire	7720	Front Wheel 20+w/Drum Brake w/Air Tire
7720KVPR	Front Wheel w/ Kevlar Tire, PR Tube	M14038KVPR	Rear Wheel w/ Kevlar Tire, PR Tube
M14038A	Rear 24+Wheel w/o Tire	M14038	Rear 24+Wheel w/ Standard Air Tire
4922E	Tire- 24x2.125 WTC Sup-r-Tire (standard)	4922	Tire- 20x2.125 WTC Sup-r-Tire
4922EKV	Tire- 24x2.125 WTC <u>KEVLAR</u> Sup-r-Tire	4922KV	Tire- 20x2.125 WTC <u>KEVLAR</u> Sup-r-Tire
4922ESW	Tire- 24x2.125 Sup-r-Tire-White Wall	4299WSW	Tire- 20x2.125 Sup-r-Tire-White Wall
4923E	Tube- 24x2.125 (standard)	4923	Tube- 20x2.125 (standard)
6023B	Tube- Puncture Resistant 24x2.125	6023	Tube- Puncture Resistant 20x2.125
1017B	Rim Strip 24+	1017A	Rim Strip 20+
1016C	Rim- 24+(no spokes-outer rim only)	1015	Rim- 20+(no spokes-outer rim only)
1014C	Spoke for Rear Wheel (11G - 9 9/16+)	1014E	Spoke for Front Wheel (11G - 7 3/16+)
3980M	Hub for Rear Wheel		

NOTE- WORKSMAN SIDE BY SIDES COME STANDARD WITH WTC SUP-R-TIRES, WHICH ARE OUTSTANDING AND DURABLE. KEVLAR TIRES ARE BELTED AIR TIRES AND THORN RESISTANT TUBES ARE MEANT TO REDUCE THE OCCURRENCE OF FLAT TIRES. SPOKES SOLD IN MINIMUM OF 36 AND INCLUDE NIPPLES. Part #s and specifications subject to change without notice as we are constantly seeking ways to improve our products.



## Safety and Comfort Accessories

Part #	Description	Part #	Description
3979	Ding Dong Chime Bell	303	Squeeze Bulb Horn
3973	Mega-Horn (battery operated)	201	Cable and Lock set (w/ keyed padlock)
4963	Rear View Mirror (Chrome, rectangular)	5032	Reflector Kit (Does not include 5031)
3978	Safety Flag on Pole	P19	Bicycle Helmet
101710	Flashing Strobe Light (clear lens)	101714	Flashing Strobe Light (red lens)
1006	Air Foot Pump	1000	Spoke Wrench
202	Mini-Frame Pump w/ Attachment Strap	2000	Chain Rivet Remover Tool
1265TW	Crank Cone Wrench	95021	Water Bottle w/ Cage & Strap
1001	Pedal Wrench	7917A	Backrest w/ Mounting Hardware
6001A	Patch Kit (5)	3976	Battery Operated Headlight
5848	Bar End Mirror	5030T	Reflector Set
SEATBELT	Seat Belt . Lap Type		
TRAILER	Heavy Hauler Trailer	THA-PAVSBST	Trailer Hitch Kit (needed for trailer)
FOOTREST	Foot Rest (Good for fixed-drive models.)	PSCUP	Cup Holder Deluxe - Armrest Mounted
7217-41197	Pedals: Velcro Foot Strap (1 Strap)	7217-41038	Pedals: Weighted Platform (1 Strap)
7217GS12	Pedals: %Glowspeck+Flashing	7217-300622	Pedals: Large Platform w/ Full Straps
ENG-BKIT-20WTC	Electric Drive System* (Inquire for details before ordering!)		

\* Electric Drive Systems are subject to state and local approvals. The Purchaser assumes responsibility for meeting legal ordinances. Subject to availability.



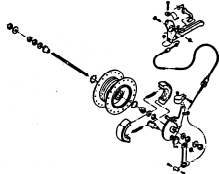
**Worksmen Stretched Mover**



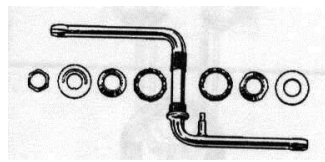
**Worksmen Personal Activity Vehicle**



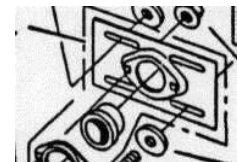
**Eagle Lite Trike**



Exploded view of L500-F



1265 Crank Parts Set with 1275 Crank



M13975 Axle Bearing w/Plate

### **ASSEMBLY INSTRUCTIONS FOR THE WORKSMAN SIDE BY SIDE TEAM DUAL TRICYCLE:**

Please read this manual carefully prior to performing the simple finishing adjustments and prior to riding. Keep these instructions, as our parts list is contained within this document which you will need for future reference. Carefully remove the tricycle from the carton. You will notice the tricycle is pre-assembled at the factory. Some finishing assembly / adjustments are required.

#### **INSTALLING AND ADJUSTING THE HIGH BACK CAPTAIN'S SEAT:**

- 1) On the %+shaped seat bolt, insert the small tube, followed by the spacer washer, rectangular bracket, and %winged+bracket with the wings facing up.
- 2) Position the seat on the sliding seat track. Thread the %+bolt into the bottom of the seat in the middle (threaded) hole.
- 3) Slide the seat to a comfortable position where leg is slightly bent at the knee when reaching for the pedal in its furthest position.
- 4) Tighten the bolt so seat is secure and no longer slides across the track or pivots. Remember to always check tightness of seat before riding. If you ordered swivel-down armrests, once seated, rotate armrests to down position.

#### **ADJUST HANDLEBAR:**

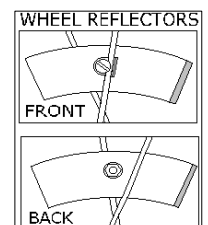
The Side by Side comes with a steering tiller. It can be positioned for your own riding preference. The stem is not tightened at the factory for height or alignment, so you can set it where you desire by simply lifting the tiller to a comfortable position and tightening the four stem bolts using a 5mm hex key. The stem must be inserted to the minimum insertion line marked on the stem. Make certain the stem is tight and the tiller remains up even while exerting downward pressure. Once straight, tighten the central alignment bolt on the stem using a 6mm hex or adjustable wrench depending on style of stem so that handlebar and front wheel are aligned. (Please note that stem specifications are subject to change without written notice. Verify the sizes of the hexes before tightening.)

#### **INSTALL BASKET:**

- 1) Remove the basket straps from the rear frame assembly/basket mount.
- 2) Place basket on top of frame assembly.
- 3) Place basket straps inside basket and install hardware as it was assembled prior to removing straps.

#### **INSTALL REFLECTORS:**

- One rear reflector (red) goes on the back of each seat. Peel the backing off, stick to the center of back of seat.
- The front reflector (white square) installs through the front reflector bracket on 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.



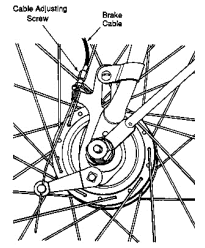
## **MAINTENANCE TIPS AND NOTES:**

- Always inspect your Worksman Cycle to insure that that all nuts, bolts, screws and hardware are tight and that no parts are worn or damaged. Do not attempt to straighten bent forks or frames.
- Lubricate chain every six months or as needed with bicycle chain lube. Replace sprockets when teeth become worn, bent or broken. Keep chain adjusted so there is no more than 3/8" slack. Note: we make the chains tight at the factory, as we do know they will stretch during the break-in period.
- Lubricate crank parts as needed and replace pedals when the surface is worn or if pedal axle becomes tight or frozen.
- Check brakes to make sure they are working properly. Adjustments should be made by a qualified bicycle mechanic.



**Drum Brake:** Your Worksman Tricycle is equipped with an automotive type front drum brake. This brake is ideal for slowing your vehicle smoothly and reliably. It is engaged by squeezing the hand lever on the handlebar. To use Park+ feature, when cycle is completely stopped, squeeze hand lever and push in parking plunger button on lever. To disengage, simply squeeze lever until parking plunger button releases.

Drum Brakes are pre-adjusted at the factory. Readjust the cable tension as necessary using the adjusting barrel so that wheel spins freely and stops when brake is applied. Always replace worn brake cables (F719-SBST) and damaged hand levers. Internal parts are available for your Drum Brake (L725-1 parts kits and L509 axle set).



**Coaster Brake:** Foot activated coaster brakes are easy to use and reliable. To activate this internal brake, reverse the pedaling motion until the brake engages. To avoid skidding and maintain control, apply braking gently. This is especially true on wet surfaces. Apply brakes by gradually increasing pedal back pressure. Replace coaster brakes when they become worn. Check chain tension regularly. For models that are ordered with 3 Speed coaster brakes, the operation is the same. Simply select the gear you wish to ride in. First gear is for easier starts and low speed riding. As you change to gear 2 and 3 you will note that pedaling effort increases as does distance traveled with each turn of the crank. If the tricycle begins to roll backward down an incline, be sure to use your front drum brake to stop. Apply coaster brake gently without locking.

**Tires:** Always check for worn or damaged tires. The Worksman Sup-r-Tires are heavy duty. We recommend 40PSI as proper level of inflation. Replace tires that are worn or cut immediately. Replace tubes that show leaks.

## **RULES FOR SAFE RIDING AND RESPONSIBLE OPERATION:** *Carefully read this manual before operating the cycle.*

- It is the responsibility of the assembler to properly install all parts included and to inspect the cycle prior to riding to insure proper operation.
  - Operator is responsible for required maintenance to keep the cycle in good operation condition
  - Observe all traffic regulations in the operating environment (stop signs, etc.) Ride in single file. Make certain route is wide enough for SBST.
  - Do not ride outdoors, at night. Have appropriate signaling device as needed. (We recommend the 3973 Mega Horn)
  - Give Pedestrians the Right of Way. Always look around you to understand the riding environment and hazards.
  - Do not carry passengers other than the two riders seated. Check brakes prior to riding. Both riders must understand vehicle operation.
  - Slow down when approaching turns or intersections. Tricycles are meant for slow pace rides, not for racing.
  - Use proper hand signals when turning or stopping. Recommended Safety Options: Approved helmet, lights, audible warning device.
  - Never ride the cycle if there are known repairs required. Do not exceed the recommended weight capacity of the cycle (500 pounds)
  - Do not stack cargo too high in basket and always secure cargo with appropriate tie down straps.
  - Wipe surface of cycle clean and dry when exposed to corrosive substances or environment.
  - Operate Cycle at slow speeds; avoid areas with vehicular traffic.
  - Operators of cycles should be in good physical condition. Ride at your own risk.
  - Wear proper riding attire. Check shoelaces prior to riding so they do not become engaged in the chain and sprocket.
  - Ride only on smooth, paved surfaces. Do not use off road. Do not ride on steep grades designed for relatively flat roads.
  - Do not operate a tricycle on steep grades. When riding down grades, apply gentle brake pressure to control descent.
  - Always replace worn parts with genuine Worksman Cycle Repair Parts. Keep a maintenance log for your records.
  - Designate a Captain. The Captain should keep both hands on the handlebars. SBST steers like a car always turn slowly.
  - SBST trikes have a wider turning radius than cycles with an upright riding position. Plan your course accordingly.
  - If motorized, buyer responsible for meeting local laws relating to motorized vehicles and viability of operation.
- Your cycle is equipped with a turn limiter. This is an assist to keep your front brake cable from getting tangled. It keeps your handlebar in full range of your hands, and provides a maximum turning radius. It assists to help prevent over-steering. It is a safeguard, but not a fail-safe mechanism. Over-steering while moving too fast can cause a three-wheeled vehicle to flip over. Do not make sharp turns. Steering is sensitive, so turn carefully. Make all turns slowly . under 5 mph. Do not try to ride on two wheels. Practice on flat, open areas to become familiar with the tricycles handling characteristics.
  - Tricycles will pull toward one direction when pedaling, typically away from the drive-side wheel that is more dominant. They also pull toward the curb of a street. It is important to point the front wheel in the direction you wish to go. Even with the pulling tendency, it can only go where you point it.
  - The hand brake lever for your front brake (drum if non-motorized, caliper if motorized) is located in the center of the handlebar. It is a right hand lever, designed for the rider on the left to optimal ability to use the brake with their right hand. At least one hand should be on the handlebar at all times. When shifting, one hand should be on the handlebar and the other can be used to shift.

## **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, NEGLIGENCE 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 IS WARRANTED FOR NINETY DAYS FROM THE DATE OF PURCHASE. IF EQUIPPED WITH AN ELECTRIC MOTOR DIRECTLY FROM THE WORKSMAN FACTORY, THE MOTOR IS WARRANTED THROUGH THE MOTOR MANUFACTURER, AND NOT FROM WORKSMAN TRADING CORP. REPAIR AND REPLACEMENT OF PARTS IS TO BE ACCORDING THE WORKSMAN 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 WORKSMAN CYCLE DEALER DETERMINES THAT IT IS DEFECTIVE, 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, WORKSMAN 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 CHOSE NOT TO HAVE THE DEALER OR WORKSMAN CYCLES PERFORM THE WORK, THE PARTS WILL BE RETURNED TO YOU AT YOUR EXPENSE OR DISCARDED IF NO REPLY IS RECEIVED WITHIN 2 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. TIRES AND TUBES ARE NOT WARRANTED. WORKSMAN 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 WORKSMAN CYCLE PARTS VOIDS WARRANTY. WORKSMAN TRADING CORPORATION IS NOT RESPONSIBLE FOR KEEPING RECORDS OF SERIAL NUMBERS. VOID WHERE PROHIBITED BY STATE LAW. DAMAGE OR MISSING PARTS MUST BE CALLED IN WITHIN 15 DAYS.