

WORKSMAN MOVER™ INDUSTRIAL TRICYCLES ASSEMBLY INSTRUCTIONS AND PARTS LIST

Models M2020, M2020-CB, M2020-3CB, M2026, M2026-CB, M2026-3CB

PARTS LIST M2020-03



WORKSMAN MOVERS™ - THE WORLD'S FINEST INDUSTRIAL TRICYCLES

Congratulations! You have purchased an American Made Worksman Mover™ Industrial Tricycle. The Mover™ is considered the flagship of the Worksman Business Cycle System, which is undoubtedly the finest line of industrial cycles. These durable tricycles are used around the world by leading companies and organizations to move personnel and supplies efficiently, safely in an environmentally friendly manner.

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 Mover™ 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 Mover Tricycle will perform reliably day after day, year after year.

Your Mover™ Tricycle has been hand-made in the USA by our American craftspeople. Our reputation rides along with you, so your ultimate satisfaction is our goal.

Note: M2020 series has 20" wheels all around, M2026 Series has 20" Front Wheel and 26" rear Wheels

M2020-Freewheel- Drum Brake Only M2020-CB- Drum & Coaster Brake (most popular) M2020-3CB-Drum & 3 Speed Coaster
M2026-Freewheel- Drum Brake Only M2026-CB- Drum & Coaster Brake (most popular) M2026-3CB-Drum & 3 Speed Coaster

Worksman Mover™ Parts List M2020-03 (For entire M2020 and M2026 Series)

Frame, Fork and related parts

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
MF2020A	Mover Frame Only- Specify color	5020HD	Fork-Color Black
5020HD-YEL	Fork- Color Safety Yellow	5020HD-ORG	Fork-Safety Orange
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
55F	Handlebar-Junior High Rise	55A	Stem for Handlebar
55B	Hand Grips (pair)	3927M	Rear Platform

Front Wheel (20") and Related Parts

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
7720A	Front Wheel w/Drum Brake w/o tire	7720	Front Wheel w/Drum Brake w/air tire
7720S	Front Wheel w/Drum Brake- Solid Tire	L900	Drum Brake-Hub Only
L709	Front Axle Set for Drum Brake	F817	Bearings-Loose 11 balls
F719	Front Drum Brake Cable and Casing (includes Adjusting Barrel and Anchor Bolt)	L725	Drum Brake Plate Kit (Internal parts kit -Shoes, Plate, Lever and Cam)
L752R	Brake Lever w/ Parking Lock- Right Hand)	L752L	Brake Lever w/ Parking Lock- Left
F769	Anchor Bolt Assembly for F719 Cable	F770	Adjusting Barrel For F719 Cable



The Worksman Mover M2020-CB- (most popular version- Front Drum and Rear Coaster Brakes)

Shown with Optional M13970 Expanded Steel basket- The Ideal solution for efficient, productive, safe and economical personnel movement. Worksman Business Cycles are in use World-Wide and have been proudly Made in the USA Since 1898.

Rear Axle and Related Parts

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
102	Key Washer	105	Adjusting Cone (threaded)
106	Stationary Cone (presses onto axle)	109	Dust Washer
113	Locknut - Left Hand Thread- Free Wheel Side)	146	Bearings (pair)
64M	Woodruff Key	59M	Locknut-Drive Side
132	Axle Parts Set(102,105,109,113,146,64M,59M)	M13966	Rear Axle
69	Fixed Drive Sprocket- (Coaster Brake Models)	4129	Freewheel Sprocket (non-coaster brake Models)
63A	Bushing for 4129	63B	Key (fits in axle slot to attach rear sprocket)
63C	Set screw for 69 and 4129	M13975	Side Bearing with Plate (each)
M13974	Center Axle Support Bearing	301M	Coaster Brake w/Dual Sprockets
404NM	3 Speed Coaster Brake w/dual Sprockets	SS721	Coaster Brake Internal Kit (for 301M)
SS13N-1	3 Speed Cable and Trigger for 404NM		

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)	1267	Complete Crank Set 36T(1265,1275,1380D)
1267F	Complete Crank Set with 32 T Sprocket	1267H	Complete Crank Set w/ 28 T Sprocket

Note- The Mover Comes standard with a 36T front Sprocket and 1265 Crank part set. Smaller Sprockets in the Front will reduce gear ratio (easier to start pedaling) . The 1265BMXS is a heavier duty upgrade for crank parts

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"
1380D	Sprocket 36Tooth	1380F	Sprocket 32Tooth
1380H	Sprocket 28 Tooth	7217	Pedal Set (Pair)
4910A	Chainguard	4914A	Chain Connecting Link(1/2x3/16")
4914V	Long Chain (M2020, M2026-Free-1/2x3/16"x135 links)	491WW	Chain- Short 3 1/2x3/16"x35
4914U	Long Chain 1/2x3/16"x147 (M2020-CB & 3CB) 36T	4915	Chain Adjusters (for Coaster Brake)

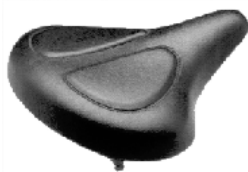
Seats and Seatpost and Fenders, Baskets and Cabinets

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
6910V-5	Saddle-padded w/5/8" clamp (standard)	6911V-5	Saddle-padded w/springs & 5/8" Clamp
4908M	Seatpost- Solid Steel	4909M	Square Head Bolt- (Secures Seatpost)
M13970	Basket fits Rear Platform- 23x22x15" Heavy Duty	M13E5	Platform Lip- 5" edge
M17350	Cabinet-23x22x11.5" fits on Rear Platform	M17350J	Jumbo Cabinet 23x22x20"
7228	Front Wire Basket 21x15x9" w/ bracket	139	Front Wire Basket 18x13x6" w/bracket
8220	Front Fender	4902A	Side Fender M2020
4902	Side Fender (L or R -M20206)	M13996	Side Fender Brace (L or R -M2026)
M13995	Side fender Brace Set(L or R- M2020)	95	"L" Bracket-attach Fr Fender to Fork
4907	Bolts, nut, washer (for 83A Brace)	4905	Bolt set -attaching 4902 to top of M13996
4907A	Bolt Set to attach 82 to Fork	4906	Bolt Set for bottom of M13996
MSF26	Complete Side Fender Kit w/braces-(M2026)	MSF20	Complete Side Fender Set (M2020)
M17852	Front Bumper Kit	M13968	Basket for M17352 Bumper Kit

Note- Movers come with a front fender as standard equipment. The Side fender set maybe added as an option by ordering either Part # MSF20- for M2020 series or MSF26 for M2620 Series. Baskets and Cabinets are optional.



M13970 Rear Basket
23x23x16"



6911V-5 Saddle
Thickly Padded



4902 fender with M13996 Brace
attached to M13975 Bearing Plate



7228 Front Basket
21"x15"x9"

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
7720A	Front Wheel w/Drum Brake w/o Tire	7720	Front Wheel w/Drum Brake w/Air Tire
7720S	Front Wheel w/Drum Brake w/Solid Tire	78SA	Free Side Wheel (left) w/o Tire (M2026)
1007	Free Side Wheel (left) with Air Tire(m2026)	78S	Free Side Wheel (left) w/Solid Tire(M2026)
M14031	Drive Side Wheel (right) w/o Tire(M2026)	M14032	Drive Side Wheel (right) w/Air Tire(M2026)
M14032S	Drive Side Wheel (right) w/Solid Tire(M2026)	9178	Wheel Free Side Mag Welded air tire(M2026)
9178SA	Wheel Free Side Mag Welded w/o Tire (M2026)	9187S	Wheel Free Side Mag Welded-solid (M2026)
9179M	Wheel Drive Side Mag Welded w/air tire (M2026)	9179MSA	Wheel Free Side Mag Welded w/o tire(M2026)
9179MS	Wheel Free Side Mag Welded w/solid tire(M2026)	1008A	Wheel-20" Free Side w/o tire(M2020)
1008	Wheel 20" Free Side w/Air Tire -(M2020)	1008S	Wheel-20" Free Side w/Solid Tire-(M2020)
8132SA	Wheel 20" Free Side- Welded Mag w/o tire-(M2020)	8132	Wheel 20" Free Side- Welded Mag w/o-(M2020)
8132S	Wheel 20" Free Side- Welded Mag w Solid tire-(M2020)	4922A	Tire- 26x2.125 WTC Sup-r-Tire
4922AKV	Tire-26x2.125 WTC KEVLAR Sup-r-Tire	4939	Solid Rubber Nev-R-Fail Tire 26"
4922AWSW	Tire-26x2.125 Sup-r-Tire- White Wall	4923A	Tube 26x2.125 (standard)
6023A	Tube- Thorn Resistant 26x2.125	1017	Rim Strip 26"
4922	Tire-20x2.125 Sup-r-Tire	4922KV	Tire 20x2.125 WTC Sup-r-Tire- Kevlar
4938A	Tire- Solid Rubber Nev-R-Fail 20"	4923	Tube-20x2.125
6023	Tube- Thorn resistant 20x2.125	1017A	Rim Strip 20"
101	Hub for free side Wheel	3980M	Hub for Drive Side Wheel
1016	Rim Only 26" (no spokes—outer rim only)	1015	Rim Only (no spokes-outer rim Only) 20"
1014A	Spoke for side wheels 11 G 10 9/16"	1014E	Spoke for 20" Wheel 11G- 7 3/16"

note- spokes sold in bags of 100 and include nipples

Note- Worksmen Mover Tricycles come standard with WTC Clincher Wheels w/ 11 g spokes. They are very durable. The Welded Mag Style Wheels are available only for the side wheels. Kevlar Tires are belted Air Tires- ideal for preventing flats. Nev-R-Fail Solid tires are Solid Rubber—no flats!

Safety and Comfort Accessories

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
3979	Ding Dong Chime Bell	303	Squeeze Bulb Horn
3973	Mega-Horn- Battery Operated- LOUD	201	Cable and Lock (set)
4963	Rear View Mirror	5030T	Reflector Set with Mounting Hardware
3978	Safety Flag on Pole	P19	Bicycle Helmet
P101710	Flashing Strobe Slight (Clear Lens)	P101714	Flashing Strobe Light (Red Lens)
7217-41197	Pedals with Velcro Foot Straps (Pair)	3975	Generator Light Set
1006	Air Pump for Tire Inflation (Manual)	1000	Spoke Tightening Tool
2000	Chain Rivet Remover Tool	1265TW	Crank Cone Wrench
1001	Pedal Wrench	Trailer	Heavy Hauler Trailer



Accessorize your Worksmen Business Cycles: Shown- Worksmen ADC-CB Tricycle with Heavy Haul Trailer, Welded Mag Rear Wheels, Nev-r-Fail Solid Tires, Mega Horn, M13970 basket on Trailer, Ding Dong Bell, Bulb Horn, Mirror and Safety Flag.

Worksmen Cycles are available in many styles, 11 attractive colors and with a wide selection of options. Replacement parts are readily available so your American Made Worksmen Business Cycle will never let you down!

Worksmen Cycles.....Unmatched Quality-----Incredibly Selection-----Unmatched Enduring Value



Worksmen Personal Activity Vehicle

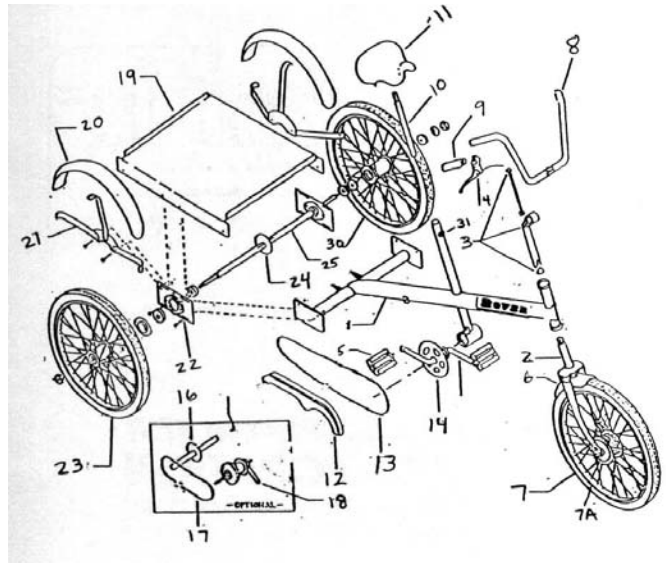
Worksmen Team Dual Tricycle

No Fuel, No Fumes

WORKSMAN CYCLES 718 322 2000

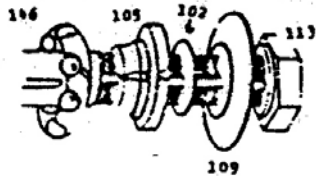
Key Component Exploded View of M2020 & M20206 Series

Key #	Part #	Description
1	MF2020A	Frame
2	5020HD	Fork
3	55H	Stem for Handlebar- Long
4	L752L / L752R	Brake Hand Lever
5	7217	Pedal Set
6	8220	Front Fender
7	7720A*	Front Wheel w/Drum Brake
8	55F	Handlebar
9	55B	Hand Grips (pair)
10	4908M	Seatpost
11	6910V-5	Saddle
12	4910A	Chainguard
13	4914V/ 4914U	Chain(1/2x3/16x135-M2020) / (1/2x3/16x149 -M2020-CB,3CB)
14	1267D	Sprocket & Crank Set 36T
15-16	69 / 4129	Fixed Drive Sprocket / Free wheel Sprkt
17	4914WW	Short Chain
18	301M or 404NM	Coaster Brake /or/ 3 Speed Coaster
19	3927M	Rear Platform
20	4902	Side Fender(M20206)
or	4902A	Side fender (M2020)
22	M13975	Outer Bearing Assembly for axle w/plate
24	69	Fixed Drive Sprocket for Rear Axle
25	M13966	Rear Axle
27	M17350	Rear Cabinet
29	L900	Drum Brake- Exploded View
31	4909M	Bolt- Square Head for Seatpost
or	1008	Wheel Free Side Left 20" M2020



Key #	Part #	Description
21	M13996	Brace for Side Fender-M2026
or	M13995	Brace for Side fender-M2020
23	M14031*	Wheel-Drive Side 26"(M2026-Right)
or	M14022	Wheel-Drive Side 20"(M2020-Right)
26	M13970	Steel Basket for Rear Platform
28	132	Rear Axle Parts Set (Partial Image)
30	78SA*	Wheel- Free Side -26"(Left M2026)

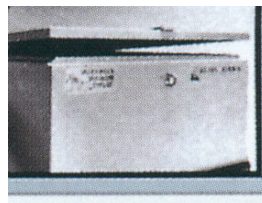
**WHEELS LISTED ABOVE ARE WITHOUT TIRES. REFER TO THE WHEEL SECTION TO IDENTIFY PART #'S FOR WHEELS WITH EITHER AIR TIRES OR SOLID RUBBER TIRES.*



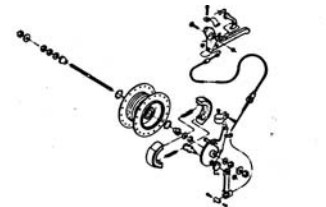
#28 132 Axle Parts Set



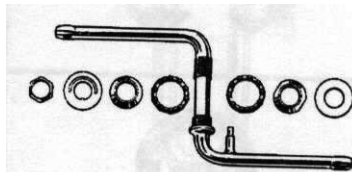
26 M13970 basket



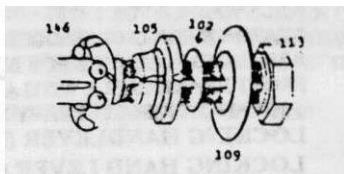
#27 M17350 Cabinet



#29-Exploded view of L900



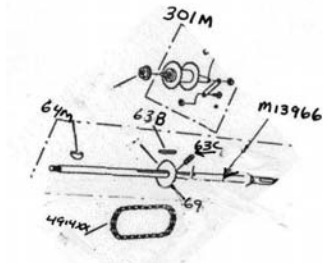
1275 Crank & 1265 hanger parts Set



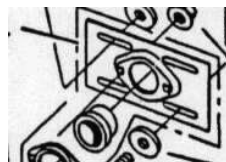
Parts for Freewheel Side of Axle



55A Stem



Rear Axle View



M13975 Rear Axle Bearing Kit- Exploded



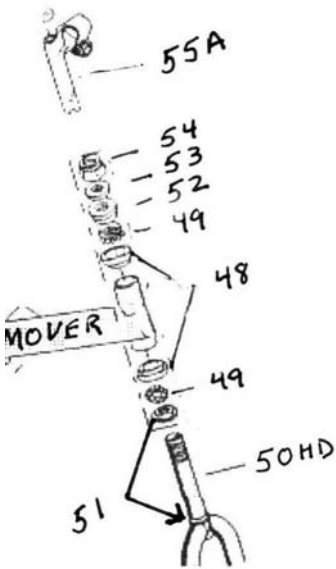
ASSEMBLY INSTRUCTIONS FOR THE WORKSMAN MOVER™ INDUSTRIAL TRICYCLE:

Your Worksmen Mover™ Industrial Tricycle has been hand made by American Craftspeople at our Ozone Park New York City Factory. We take great pride in each and every Worksmen Business Cycle that we manufacture and appreciate your support. Please read this manual carefully prior to performing the simple finishing assembly 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 mostly pre-assembled at the factory. Some finishing assembly is required.

The front wheel and the fork assembly is pre-assembled at the factory.

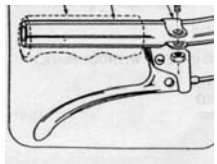
TO ATTATCH FRONT FORK/WHEEL ASSEMBLY TO THE FRAME:



- 1) Grease cups (48) using Rustolene 200 lubricant or equal. Bearings (49) are pre-greased at the factory, but it is always a good idea to add lubrication prior to assembly.
- 2) Place one bearing (#49) onto the fork steering tube with the balls facing up.
- 3) Slide the threaded fork (50HD) steering tube into the frame head
- 4) Place the other bearing on the top of the fork tube with the balls facing down towards the cup (#48), which is already pressed onto the frame.
- 5) Install the top adjusting cone (#52) onto the treaded fork steering tube. Hand tighten, making certain the bearings do not bind. After hand tightening, turn back ¼ turn.
- 6) Install the fork key washer (#53) and reflector bracket (if reflectors were ordered) on top of the adjusting cone with tip of washer in slot on steering tube.
- 7) Install head lock nut (#54) and securely tighten. Make sure that the fork rotates freely without being loose. Excess play or resistance must be adjusted. Failure to adjust properly can lead to improper steering response.
- 8) Install handlebar stem (55A) into the fork steering tube with the handlebar clamp facing forward. The stem must be inserted far enough to reach the minimum insertion line. Tighten the stem bolt slightly at this point. Loosen the handlebar clamp nut and slide the handlebar through the clamp centering the knurled center section of the handlebar into the clamp. Position the handlebar to the desired angle and tighten clamp securely. Recommended torque is 300 IN. LBS. Adjust the handlebar rotation so that it is perpendicular to the front wheel when it is perfectly straight. Tighten stem bolt securely. Recommended torque 240 IN. LBS. Be sure not to over tighten as damage to the parts may occur causing steering failure.

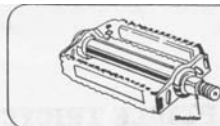
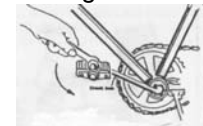
hand

- 9) Attach brake hand lever to the handlebar (either left or right depending upon the rider's preference) Make sure brake cable is not tangled in anyway.



INSTALLING PEDALS:

Pedals are marked on the shaft with either an "L" or "R" denoting left or right. The "R" pedal fits on the right sprocket side of the crank arm. Tighten clockwise. The "L" pedal fits on the left side of the crank arm. Tighten counter clockwise (left hand thread). Securely tighten. Recommended torque 275 IN. LBS. **CAUTION:** tightening in the wrong direction will damage the crank and pedal threads.



SEAT ADJUSTMENTS:

Although the seat is already installed at the factory, adjust the height to your desired level by loosening the square head frame seat bolt (4909M). Re-tighten at desired height. Make sure a minimum of 3 1/2" of the post remain in the frame tube. Never adjust post above this Level. Adjust angle of seat with nose raised slightly. Tighten seat clamp securely. (240 IN. LBS.).

MAINTENANCE Tips:

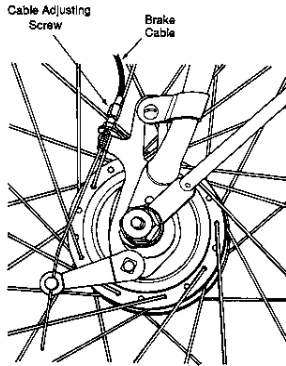
Always inspect your Worksman Cycle to insure that that all nuts, bolts, screws and hardware are tight and that no parts are worn or damaged. Do not attempt to straighten bent forks or frames.

Lubricate chain every six months or as needed with light oil. 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.



Drum Brake:

Your Worksman Mover 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) and damaged hand levers. Internal parts are available for your Drum Brake (L725 parts kits and L709 Axle set).

Coaster Brake (if applicable):

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 care when braking. This is especially true on wet surfaces. Apply brakes gently, gradually increasing pedal back pressure. Replace coaster brakes when they become worn. Check chain tension regularly.

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.