

# Worksman Heavy-Duty Bicycle Owner's Manual and Parts List

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Parts list HDBIKE10

**Models INB, ING, M2600, Low Gravity (LGB, LGG), Recreational Custom Cruisers**

## **Worksman Heavy-Duty Bicycles - The Strongest Bikes in the World!**



Congratulations! You have purchased an American-made Worksman bicycle. Worksman Bicycles are considered the most durable bicycles available. This manual covers all 26+ heavy-duty Worksman two-wheeled bicycles and the Low Gravity Delivery Bicycle.



Before assembling 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 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 bicycle has been hand-made in the USA by our American craftspeople. Our reputation rides along with you, so your ultimate satisfaction is our goal. (Refer to the separate Low Gravity Instruction Sheet for LG assembly instructions.)

- *This manual is intended as an assembly and maintenance guideline for a professional and qualified bicycle mechanic. Failure to have this cycle professionally assembled could result in injury or death.*

### **Worksman Heavy-Duty Bicycle Parts List** (Subject to change without notice as we are constantly seeking ways to improve our products.)

#### **Frame, Fork and Related Parts** (Specify color of frames and forks when ordering.)

<b><u>Part #</u></b>	<b><u>Description</u></b>	<b><u>Part #</u></b>	<b><u>Description</u></b>
<i>Newsboy, Newsgirl, and Heavyweight Cruisers</i>			
7200	INB Frame (Curved top tube - Specify color)	7203	ING Frame (Ladies - Specify color)
3700	M2600 Frame (Straight . Specify color)	160B	Retention Clip (Retainer Washer)
60HD	Fork (26+Painted w/ drum insert)	60STR	Strap for OLD (Tabbed) 60HD Fork
8260B	Fork (26+Chrome cruiser fork)	55	Handlebar (24+- INB, ING, M2600)
55A	Stem	55M	Handlebar (Wide . DooWop Cruiser)
55F	Handlebar (Jr. High Rise - Coney Island)	55V	Handlebar (Low Rise . Rush Hour)
5031	Front Reflector Bracket		
<i>Low Gravity Bicycles</i>			
7201	LGB Frame (Specify color)	7201G	LGG Frame (Specify color)
7250	Fork (20+- Low Gravity . specify color)	55F	Handlebar (Jr. High Rise)
55H	Stem (Extra long for Low Gravity)		
<i>Headset and Other Parts</i>			
48	Headset 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	55B	Handgrips (pair)

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

<b><u>Part #</u></b>	<b><u>Description</u></b>	<b><u>Part #</u></b>	<b><u>Description</u></b>
1265	Crank Parts (1266,1268,1269,1271,1272,1273,1274)	1265BMXS	Deluxe Sealed Crank Set (Upgrade)
1266	Crank Bearings (pair)	1267	Complete Crank Set (44T,1265,1275,1380)
1267D	Complete Crank Set (36T, 1265, 1275, 1380D)	1268	Cups for Crank Housing (pair)
1269	Stationary Washer (inside)	1271	Key Washer (outside)
1272	Adjusting Cone (threaded, outside)	1273	Stationary Cone (inside)
1274	Crank Locknut	1275	Crank (one piece, forged - 6.5+)
1380	Sprocket 44 Tooth (3/16+) (Standard)	1380D	Sprocket 36 Tooth (3/16+) (Optional)
7217	Pedal Set (pair)	4910A	Chainguard
4914A	Chain Connecting Link (1/2x3/16+)	4914D	Chain (3/16x109 links . 44T sprocket)
4915	Chain Adjusters (for coaster brake)		

#### **Baskets and Cabinets**

<b><u>Part #</u></b>	<b><u>Description</u></b>	<b><u>Part #</u></b>	<b><u>Description</u></b>
133WH	Removable Front Basket (14.5x9.5x9+)	139	Front Wire Basket (18x13x6+)
7226	Twin Rear Carrier Basket w/ Rack	7227	Front Flat Steel Basket (Low Gravity)
7228	Front Wire Basket (21x15x9+)	7233	Support Arms for Low Gravity (pair)
3927P	Top Opening Pizza Box (20x20x12+- LGP)	3927PS	Side Open Pizza Box (20x20x12+LGPS)
7300	Wood Panel for LGP Basket	7300G	Wood Panel for LGP Cabinet

**Drum Brake Parts** (Not all Worksmen Heavy Duty bikes include drum brakes.)

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
<i>Front</i>		<i>Rear</i>	
L900	Front Drum Brake Hub (Hub only)	L901	Rear Drum Brake Hub (Urban Assault)
L709	Front Drum Brake Axle Parts Set	L909	Rear Drum Brake Axle Parts Set
F817	Front Drum Brake Bearings (11 loose balls)	L917	Rear Drum Brake Bearings
L817-B	Front Drum Brake Bearings (Pressed bearing)	L926	Rear Drum Brake Plate Kit
L725-1	Front Drum Brake Plate Kit	F719-1	Rear Drum Brake Cable w/ F769/F770
F719	Front Drum Brake Cable w/ F769/F770		
<i>Front and Rear</i>			
F769	Anchor Bolt Assembly for F719 Cable	F770	Adjusting Barrel for F719 Cable
F818	Arm Band Assembly for Brake Arm	L815	Drum Brake Outside Axle Nut (each)
L752R	Brake Lever (Right) w/ Parking Lock	L752L	Brake Lever (Left) w/ Parking Lock

**Seats, Seatpost, and Parts**

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
4912V	Saddle (10+w/ springs - standard)	6911V	Saddle (13+extra-wide w/ springs)
4908C	Seatpost (7/8+)	7913	Seatpost Clamp (seatpost to seat)
4909	Bolt, Nut, Washer for 4911C	4911C	Seatpost Clamp (seatpost to frame)

**Fenders, Kickstands and Parts**

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
82	Front Fender (26+)	7202	Front Fender (20+. Low Gravity)
83A	Front/Rear Fender U-Brace (26+)	95	Front % <sub>10</sub> +Bracket (fender to fork)
4803K	Front Fender Hardware Kit (95, 4907, 4907A)	4904L	Front Fender Brace (20+. Low Gravity)
4907	Bolts, Nut, Washer (U-brace to fender)	4907A	Bolt, Nut, Washer (% <sub>10</sub> +bracket to fork)
4901	Rear Fender (26+)	4905	Bolt, Nut, Washer (rear fender to brace)
7229	Kickstand for Ladies (air) and Mens (solid)	7229A	Kickstand for Mens (air)
7229F	Kickstand for Ladies (solid)		
<i>Low Gravity Kickstand Parts</i>			
7230	Kickstand for Low Gravity (for front fork)	7204	Kickstand Stop for Low Gravity Fender
7231R	Kickstand Spring for Low Gravity (Right)	7231L	Kickstand Spring for Low Gravity (Left)
7232	Bolt and Spacer for 7230		

**Wheels, Tires, and Tubes** (Alloy wheels also include stainless steel spokes and nipples.)

*Add "KVPR" to the wheel part number that you need to upgrade to Kevlar Tires and Puncture Resistant tubes!*

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
4131Q	26+Front Wheel w/ Air Tire	77	26+Front Drum Brake Wheel w/ Air Tire
4131QA	26+Front Wheel w/o Tire	77A	26+Front Drum Brake Wheel w/o Tire
4131QS	26+Front Wheel w/ Solid Tire	77S	26+Front Drum Brake Wheel w/ Solid Tire
4131QAAL	26+Alloy Front Wheel	77CAR	26+Alloy Front Drum Brake Wheel
4136	26+Rear Coaster Brake Wheel w/ Air Tire	7208Q	20+Front Low Gravity Wheel w/ Air Tire
4136A	26+Rear Coaster Brake Wheel w/o Tire	7208QA	20+Front Low Gravity Wheel w/o Tire
4136S	26+Rear Coaster Brake Wheel w/ Solid Tire	7208SQ	20+Front Low Gravity Wheel w/ Solid Tire
4136CSSAL	26+Alloy Rear Coaster Brake Wheel	SMX263CB	26+3 Spd Rear Coaster Brake Wheel
77R	26+Rear Drum Brake Wheel w/ Air Tire	SMX263CBAL	26+Alloy 3 Spd Rear Coaster Brake Wheel
77RA	26+Rear Drum Brake Wheel w/o Tire	SMX267CB	26+7 Speed Rear Coaster Brake Wheel
77RS	26+Rear Drum Brake Wheel w/ Solid Tire	SMX267CBAL	26+Alloy 7 Spd Rear Coaster Brake Wheel
77RCAR	26+Alloy Rear Drum Brake Wheel	SS721	Coaster Brake Repair Kit (internal parts)
300	Coaster Brake Hub (36 hole x .120+)	401	3 Speed Coaster Brake Hub (36 x .120+)
4922	20+x 2.125+Tire	4922A	26+x 2.125+Tire
4922KV	20+x 2.125+Kevlar Tire	4922AKV	26+x 2.125+Kevlar Tire
4922WSW	20+x 2.125+White Wall Tire	4922AWSW	26+x 2.125+White Wall Tire
4938A	20+Solid Tire	4939	26+Solid Tire
4923	20+x 2.125+Tube	4923A	26+x 2.125+Tube
6023	20+x 2.125+Puncture Resistant Tube	6023A	26+x 2.125+Puncture Resistant Tube
1014A	Spokes and Nipples for 26+Wheels	1014E	Spokes and Nipples for 20+Wheel
1015	20+x 2.125+Worksmen Clincher Rim	1016	26+x 2.125+Worksmen Clincher Rim
1017A	20+Rimstrip	1017	26+Rimstrip
1018	Valve Cap		

**Front Knock-Out Wheel Parts** (For bikes equipped with the front Worksmen Knock-Out hub rather than the front drum brake.)

<u>Part #</u>	<u>Description</u>	<u>Part #</u>	<u>Description</u>
100QN	Front Knock-Out Hub w/ Axle and Parts	102	Key Washer (w/ inner tab)
103	Ball Cups for Hub (pair)	104	Quill Tube
105	Outside Adjusting Cone	108	Axle Bolt w/ Nut (Low Gravity)
109	Dust Washer	112	Axle Spacer Washer
113	Lock Nut	110	Axle Parts Set (102,103,104,105,109,113,146)
146	Wheel Bearings (pair)	SS17	Axle Nut (serrated / outside)

**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)	201	Cable and Lock set
4963	Rear View Mirror	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)
7217-41197	Pedals with Velcro Foot Straps (pair)	3975	Generator Light Set
1006	Air Foot Pump	1000	Spoke Wrench
2000	Chain Rivet Remover Tool	1265TW	Crank Cone Wrench
1001	Pedal Wrench	7917A	Backrest w/ Mounting Hardware
6001	Patch Kit (50)	3976	Battery Operated Headlight
7217GS12	Lowspack+Flashing Pedals . Flash without batteries!		

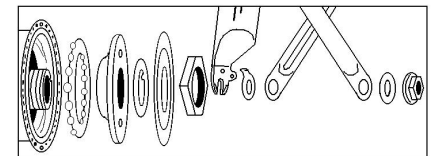
**ASSEMBLY INSTRUCTIONS FOR WORKSMAN HEAVY-DUTY BICYCLES: (FOR LOW-GRAVITY BIKES, SEE ATTACHED ASSEMBLY SHEET.)**

Please read this manual carefully prior to performing the simple finishing assembly and prior to riding. We recommend that a qualified bicycle mechanic assemble this cycle. Carefully remove the bicycle from the carton. You will notice the bicycle is mostly pre-assembled at the factory.

**TO ATTACH FRONT FORK/WHEEL ASSEMBLY TO THE FRAME: (If you have a front drum brake, proceed to step 3.)**

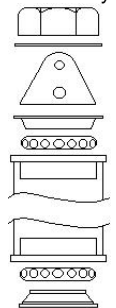
**Front Wheel:**

- 1) Attach front fender to fork.
- 2) Slide one axle washer over axle bolt. Insert axle through basket leg (optional), fender brace, and retention clip.
- 3) Insert axle through front wheel hub and out other side. Install retention clip, fender brace, basket leg (if ordered), washer, and axle nut. (Arrowed parts indicate if front basket is being used.)



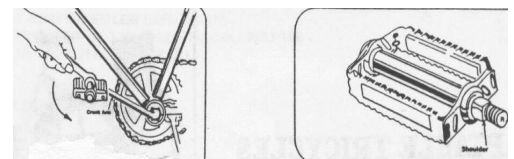
**Headset:**

- 1) Grease headset cups (48) with Rustolene 200 or equal. Bearings (49) are pre-greased at the factory, but it is wise to add lubrication before assembly.
- 2) Place one headset bearing (49) onto fork steerer tube with balls facing up. Slide steerer tube into frame.
- 3) Place the other bearing on top of fork tube with balls facing down towards the cup (#48), which is already pressed onto the frame.
- 4) Install top-adjusting cone (52) onto treaded fork steering tube. Hand-tighten, making sure bearings do not bind. Turn back ¼ turn.
- 5) Install fork key washer (53) and reflector bracket on top of the adjusting cone with tip of washer in slot on steering tube.
- 6) 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.
- 7) 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.
- 8) 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 straight with the front wheel. 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.
- 9) If a drum brake was ordered, attach brake lever to handlebar. Make sure brake cable is not tangled in any way.



**INSTALLING PEDALS AND KICKSTAND:**

- 1) Install kickstand.
- 2) 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 threads.**



**SEAT ADJUSTMENTS:**

Adjust the seat height to your desired level by loosening the seat clamp nut at the top of the frame's seat tube. Re-tighten at desired height. Make sure a minimum of 3 1/2" of the post remains 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.)

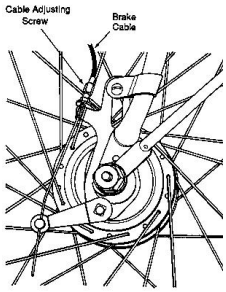
**MAINTENANCE TIPS:**

Always inspect your Worksmen 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 forks or 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 make 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 tight or frozen.





**Drum Brake:**

Some Worksmen bicycles are equipped with a front drum brake. 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 and damaged hand levers.

**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 pressure. Replace coaster brakes when they become worn. Check chain tension regularly. Coaster brake hubs may make a vibrating noise under braking until they are broken in. For multi-speed units, pause pedaling when shifting to help mesh gears. (Let the cycle coast.) Multi-speed hubs make a slight ticking sound.

**Tires:**

Always check for wear or damage. We recommend 40PSI as proper level of inflation. Replace worn or cut tires and leaking tubes immediately.