

POWERMATIC®

OPERATING INSTRUCTIONS AND PARTS LIST

Model 62-10" Tilting Arbor Bench Saw



FOR SERIAL NUMBERS FROM 4-100 UP



POWERMATIC  OUDAILLE
McMinnville, Tennessee 37110

August, 1969-1M

1969

GENERAL SET-UP AND ALIGNMENT

1. **RECEIVING**
Uncrate and check for shipping damage. Clean all coated and greased surfaces. Read instructions thoroughly. Locate all lubrication points; adjustments; methods of drive.
2. **MOUNTING**
Mount machine securely to solid foundation. Locate in clean, dry and well ventilated building if possible. Motor and electrical connections should be protected when not in operation or if exposed to weather elements.
3. **INSPECTION**
The above machine requires the minimum amount of attention in service. Periodic or regular inspections are recommended to insure machine is in proper adjustment, positive electrical connections; and bearings heating or loose.
4. **BEFORE OPERATING**
Check motor nameplate data or wiring diagram of motor and switch for proper voltage connection before wiring into line. Run motor without load to check the connections and direction of rotation. Always refer to motor nameplate for rotation connections.

SAFETY RULES FOR SAW OPERATION**ADJUSTMENTS ON THE MACHINE.**

1. When setting up the machine for any sawing job, see that the saw revolves freely, that it is securely fastened to the arbor, and that the screws or clamps on the fences are tightened. The saw table should also be free from tools and material except the stock to be cut.
2. **ALWAYS USE THE SPLITTER GUARD, SAW GUARD AND A PUSH STICK OR ANY OTHER SAFETY DEVICES FOR ALL OPERATIONS WHERE THEY CAN BE USED.**
3. Keep the saws sharp and properly set. It is very dangerous to work with dull and insufficiently set tools.
4. Always stop the machine before changing any adjustments.
5. Keep the floor around the machine in good condition, clean and free from scraps, sawdust, oil or grease, so that there will be no danger of slipping.
6. Do not look around or carry on a conversation when operating the machine, but give it your undivided and uninterrupted attention.
7. Stock to be sawed must always be held against one of the fences. Never try to saw "freehand", that is, without holding the stock against a fence. It must have a straight, true edge, and lie flat on the table. Stock "in wind" or with rough, uneven edges should not be worked on the circular saw.
8. The saw blade must not project more than $\frac{1}{8}$ inch above any stock being sawed.
9. Stand to one side of the saw, and do not allow any other person to stand in line with the saw.
10. Do not reach over the saw. Have a helper or "tail man" to take away the stock.
11. Use the clearance block when crosscutting short pieces. Never use the ripping fence as a stop when crosscutting. It may cause a "kickback."
12. Roll up your sleeves or wear a shop coat with tight fitting and rather short sleeves. Tuck in your necktie and do not wear gloves. Loose-fitting, torn, or ragged clothing is dangerous, because it may be caught by the saw and the operator's hand or arm pulled against the saw blade and seriously injured.

OPERATING ADJUSTMENTS

MOTOR & DRIVE:

Saw is powered by a motor mounted on a swivel base supported by motor rods extending from the center trunnion. Saw arbor is driven by one "A" section V-belt. Weight of motor tending to rotate about shaft (1) fig. 1 provides necessary tension to belt.

SAW ARBOR:

Saw is equipped with a $\frac{5}{8}$ " arbor, operating in sealed ball bearings, requiring no lubrication. To remove saw arbor, remove arbor nut, blade and V-belt sheave. Remove set screw (2) fig. 1. Bump end of arbor with a wooden block and it will slide out.

RAISING MECHANISM:

Saw arm is raised with a worm gear, operated by the handwheel mounted on front of saw. Saw blade may be locked at any desired height by tightening knob in center of handwheel.

TILTING MECHANISM:

Saw blade is tilted by means of a worm gear, operated by handwheel mounted on right side of saw. Blade may be locked at any desired angle by tightening knob (1) fig. 2 in center of handwheel. The tilting mechanism has stops at 45 and 90 degree positions, fig. 3 respectively.

TABLE

ALIGNMENT:

If saw does not line up with miter slots, loosen the four screws (3) fig. 1 holding the front and rear trunnion to table, and shift trunnions until miter slots are parallel with saw blade. Tighten screws.

REPLACING SAW BLADES:

Remove insert plate and raise saw blade to highest position. Remove arbor nut and outer saw washer. If arbor nut is exceptionally tight, hold saw by wedging a short board into teeth of blade. This will keep arbor from turning. When replacing saw blade, arbor and flange should be free from dust or shavings. Make SURE saw teeth point toward front of saw.

ALIGNING

SPLITTER BAR:

If splitter bar does not line up with saw blade, realignment is accomplished by adjusting screws (4) fig. 1 and (2) fig. 2.

RIP FENCE ADJUSTMENT:

The rip fence is supported by two round bars mounted on the front and rear of saw table. Fence may be locked in any position on table with handles (3) and (4) fig. 3. Handle (3), in the extreme down position, locks front of fence, properly aligning rear of fence, which may then be locked with handle (4). When both handles are raised to the extreme up position, the fence is free for sliding or Vernier adjustments to any position on the table. Vernier adjustments are made by pushing in knob (5) fig. 3 and turning to move fence.

To check fence alignment, move fence to the edge of the miter slot. If fence does not line up with miter slot after it has been locked in place with handle (3) loosen the washer-head screw (6) fig. 3 and line fence up with slot. Tighten washer-head screw.

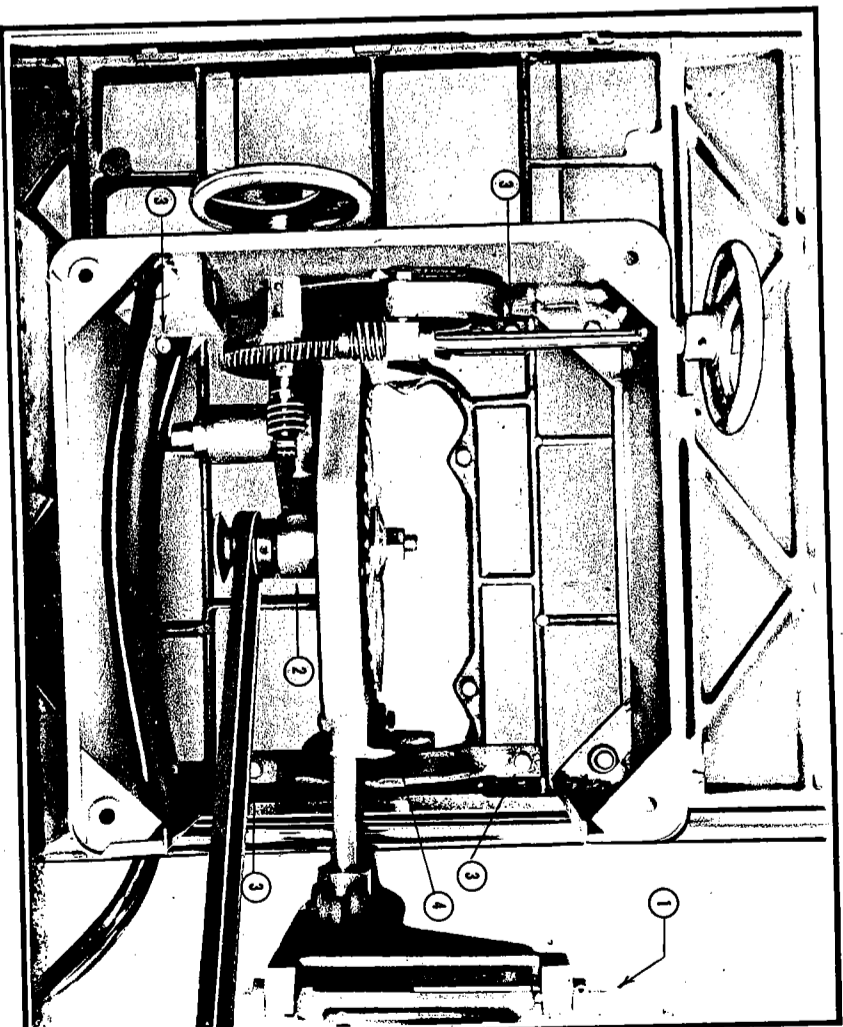


Fig. (1)

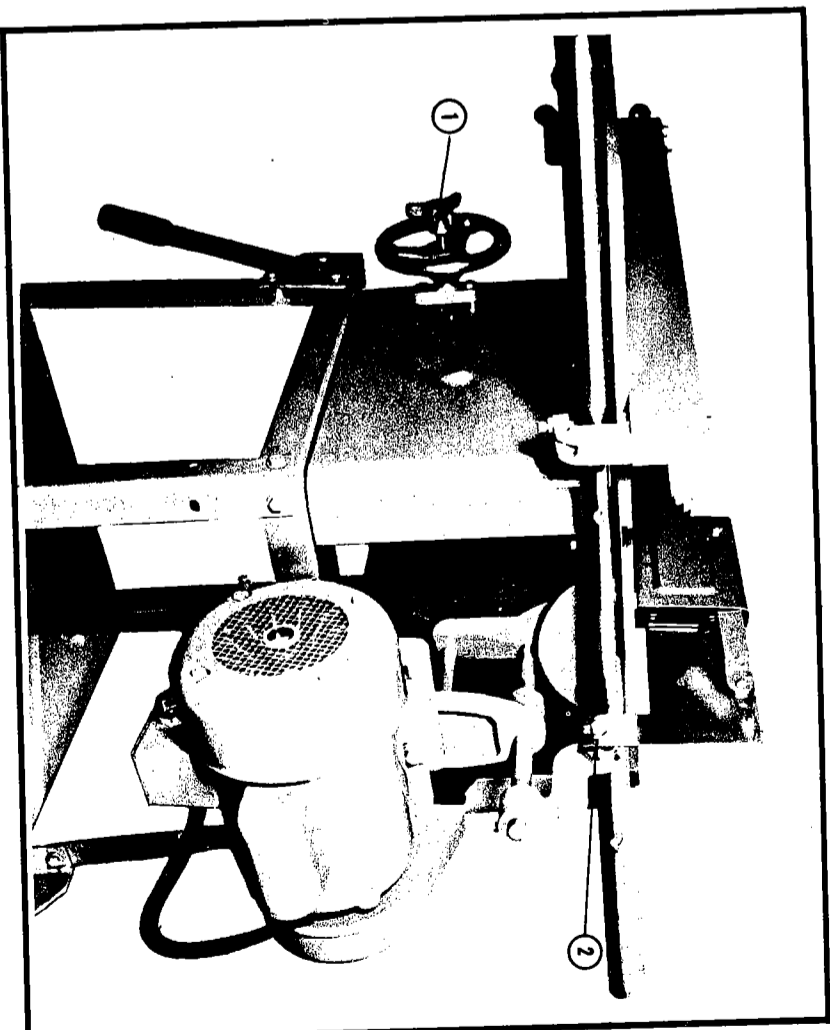


Fig. (2)

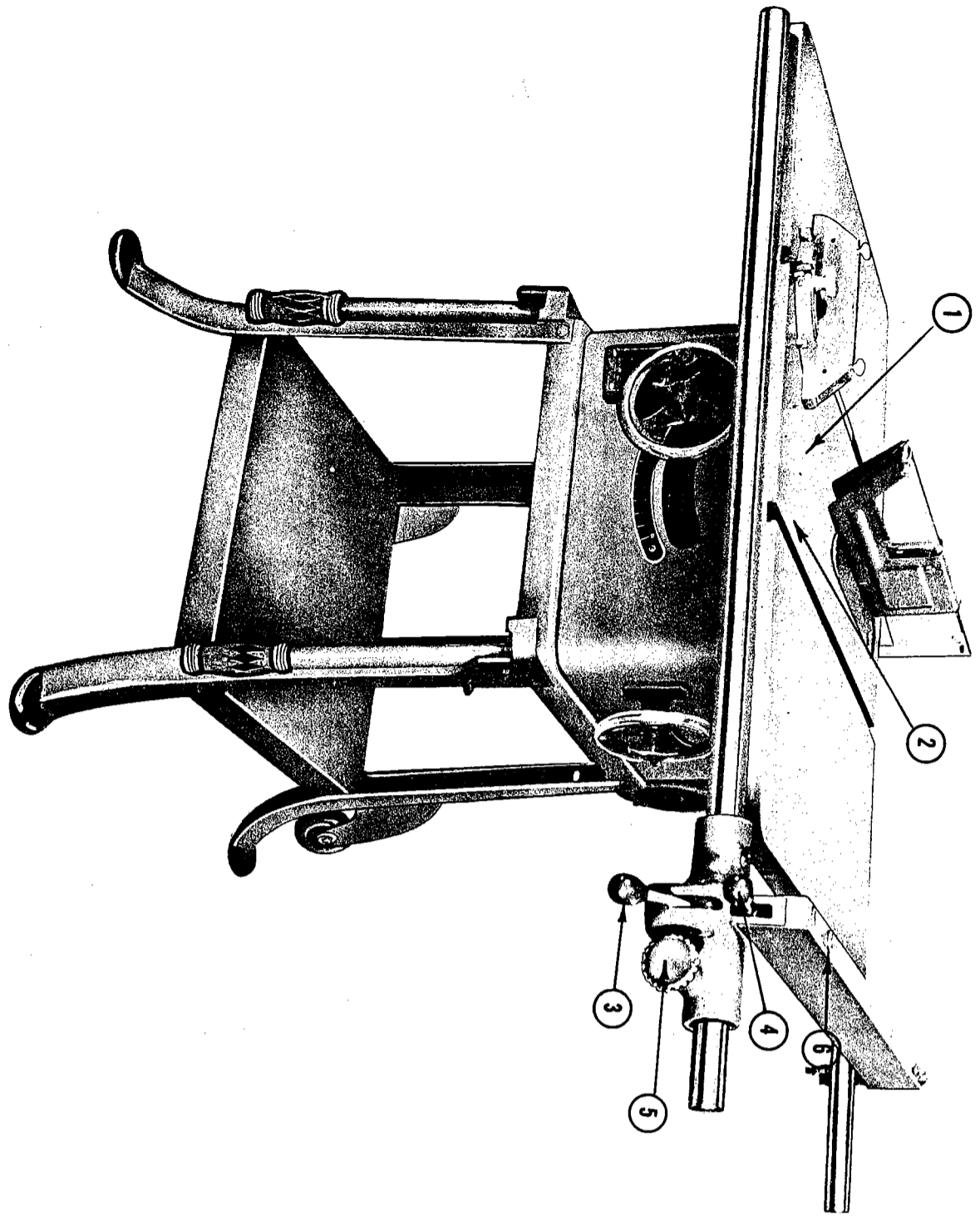
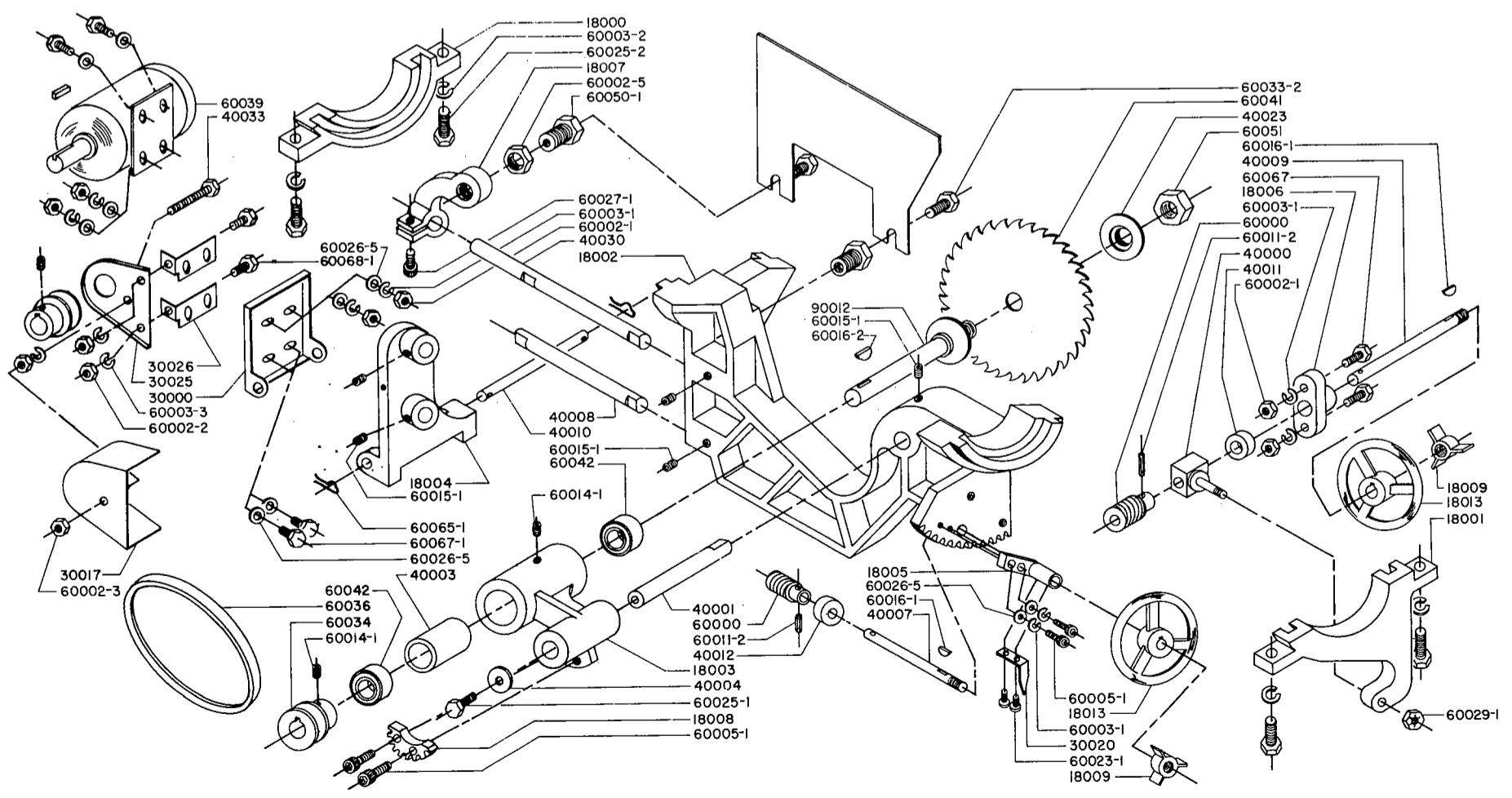
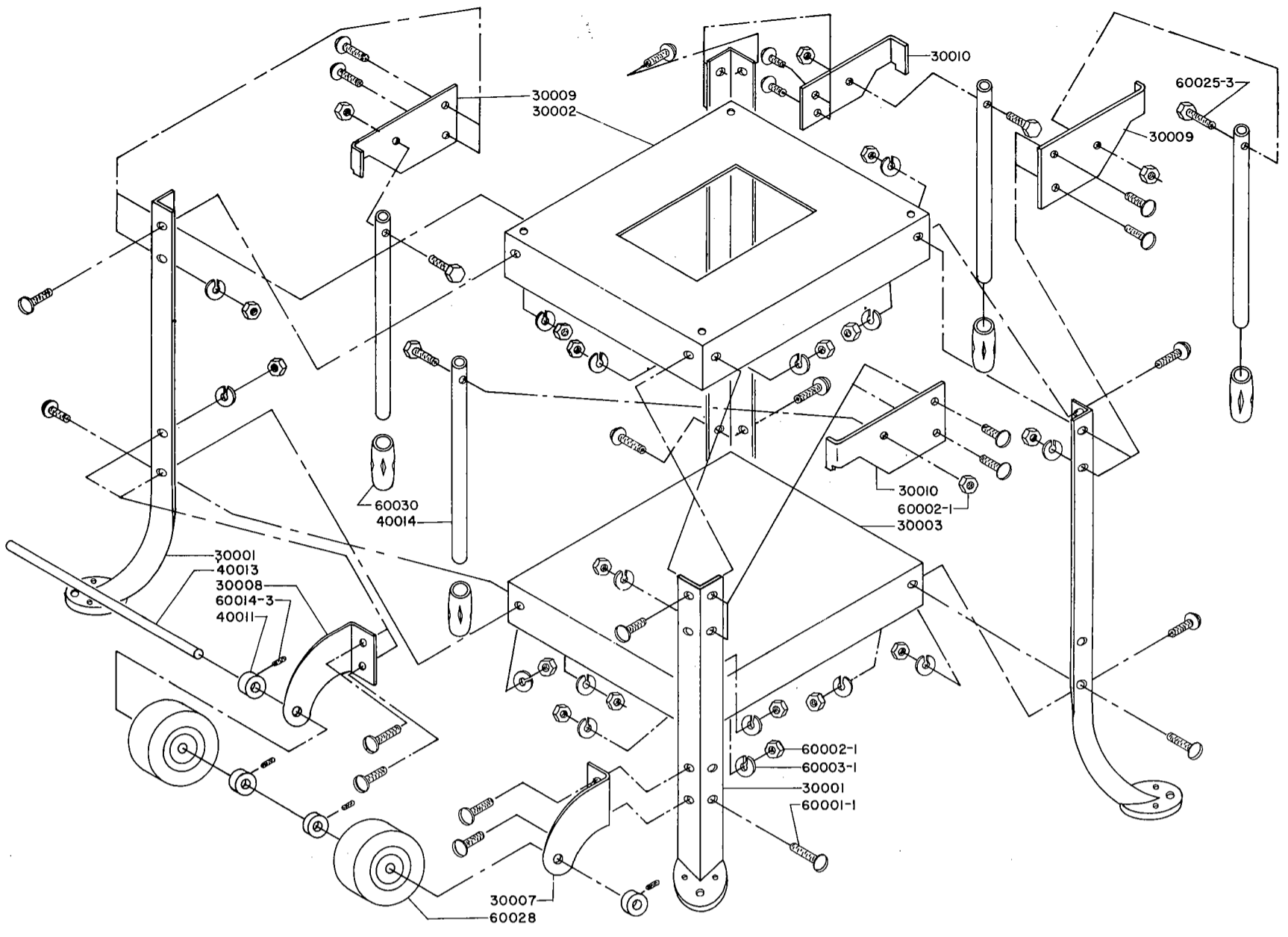


Fig. (3)

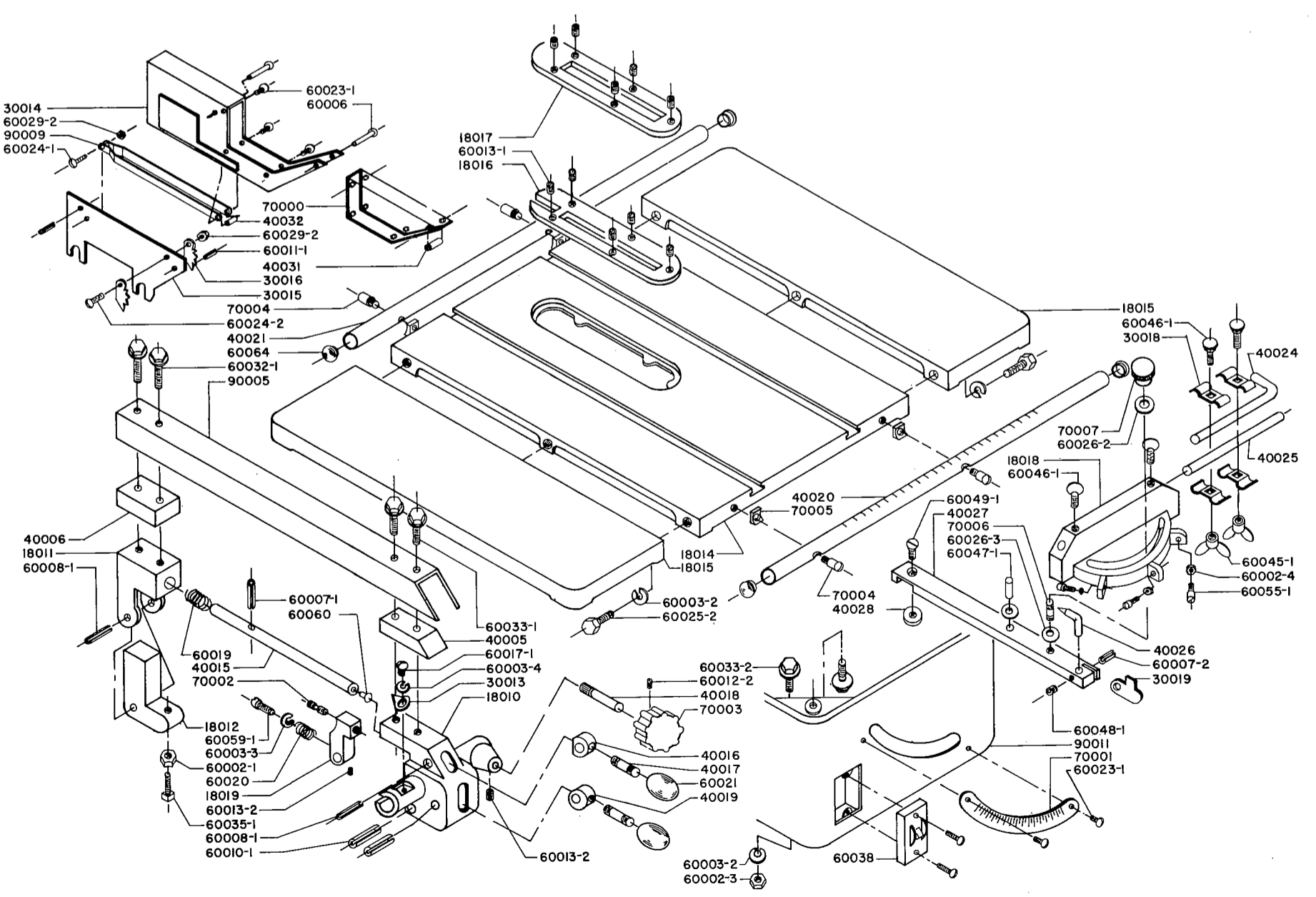


POWERMATIC/HOUDAILLE, McMinnville, Tenn.



MODEL 62 TILTING ARBOR BENCH SAW

PARTS LIST



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PARTS LIST FOR 62 TA SAW

Part Number	Description	Quantity Required	Part Number	Description	Quantity Required
18000	Trunnion, Rear	1	40017	Handle, Locking	2
18001	Trunnion, Front	1	40018	Pinion, Fence Carriage	1
18002	Trunnion, Frame	1	40019	Cam, Front Lock	1
18003	Arm, Elevating	1	40020	Rail Front, 48"	1
18004	Support, Motor	1	40021	Rail Rear, 48"	1
18005	Support, Elevating Shaft	1	40022	Collar Arbor Enter	1
18006	Support, Tilt Shaft	1	40023	Collar Arbor Outer	1
18007	Support Splitter	1	40024	Stop Rod Bent	1
18008	Gear Segment, Elevating	1	40025	Stop Rod Straight	1
18009	Knob, Locking	2	40026	Pointer, Miter	1
18010	Carriage Fence	1	40027	Bar Miter	1
18011	Bracket, Fence Mtg, Rear	1	40027	1/4-20 Nut, Special	1
18012	Lock Rear	1	40029	Shaft	1
18013	Hand Wheel	2	40030	Motor Rod	1
18014	Table	1	40031	Spacer, Front	1
18015	Extension Table Saw	2	40032	Spacer, Rear	1
18016	Insert Table Saw	1	40033	3/8-16 x 3/8 Stud	1
18017	Insert Table Dado	1	40035	Space, Elevating Hand Wheel	1
18018	Miter	1	60000	Worm	4
18019	Bracket Fence Lock	1	60001-1	5/16-18 x 5/8 Truss Head Screw	24
30000	Base Motor	1	60001-2	5/16-18 x 3/4 Truss Head Screw	6
30001	Leg Stand	4	60002-1	5/16-18 NC Hex Nut	27
30002	Top Stand	1	60002-2	1/4-20 Hex Nut	4
30003	Shelf Stand	1	60002-3	3/8-16 Hex Nut	10
30004	Cowling	1	60002-4	6/32 Hex Nut	3
30005	Fence	1	60002-5	3/4-16 Hex Nut	1
30006	Brace, Fence	1	60003-1	5/16 Lock Washer	26
30007	Bracket Wheel Left	1	60003-2	3/8 Lock Washer	4
30008	Bracket Wheel Right	1	60003-3	1/4 Lock Washer	4
30009	Bracket, Handle Left	2	60003-4	3/16 Lock Washer	1
30010	Bracket, Handle Right	2	60004-1	3/8-16 Socket Hd. Cap Screw	5
30011	Bracket, Mfg.	8	60005	5/16-18 Socket Hd. Cap Screw	4
30012	Arm, Guard Support	2	60006	Semi Tubular Rivet	2
30013	Pointer	1	60007-1	1/8 OD x 5/8 Split Pin	1
30014	Guard Saw	1	60007-2	1/8 OD x 3/8 Split Pin	1
30015	Splitter	1	60008-1	1/4 O.D. Split	2
30016	Pawl, Anti-Kickback	2	60010-1	3/8 Diameter Split Pin	2
30017	Guard Belt	1	60011-1	3/16 OD-1/2 Split Pin	2
30018	Clamp	4	60012-1	1/4-20 NC-3/8 Cup Point Socket Hd. Set Screw	2
30019	Stop Miter	1	60012-2	1/4-20 NC-1/4 Cup Point Socket Hd. Set Screw	1
30020	Pointer, Tilt 1	1	60013-1	1/4-20 NC-3/8 Flat Point Socket Hd. Set Screw	5
30023	Dust Chute	1	60013-2	1/4-20 NC-1/4 Flat Point Socket Hd. Set Screw	4
30025	Black Plate, Belt Guard	1	60014-1	5/16-18 NC-3/8 Cup Point Socket Hd. Set Screw	3
30026	Guard Mtg. Bracket	1			
40000	Pivotbracket, Tilt Shaft	1	60014-2	5/16-18 NC-1/2 Cup Point Socket Hd. Set Screw	2
40001	Shaft, Pivot	1	60014-3	5/16-18 NC-1/4 Cup Point Socket Hd. Set Screw	22
40002	Arbor, Saw	1			
40003	Spacer, Swg Arbor	1	60015-1	3/8-16 NC x 3/8 Cup Point Socket Hd. Set Screw	3
40004	Retainer, Arm Elevating	1	60016-1	404 Woodruff Key	2
40005	Filter, Fence Front	1	60016-2	606 Woodruff Key	1
40006	Filter, Fence Rear	1	60017-1	6-32 NC x 1/4 Round Head Machine Screw	1
40007	Shaft, Elevating	1	60019	Spring Comp	1
40008	Rod, Motor	1	60020	Spring, Comp	1
40009	Shaft, Tilt	1	60021	Knob Tear Drop	2
40010	Shaft, Motor Pivot	1	60023-1	4-40 Self Tapping Screw	10
40011	Collar	4	60024-1	1/4-20 NC 5/8 Round Head Screw	1
40012	Collar	2	60024-2	1/4-20 x 1/2 Round Head Screw	1
40013	Axle	1	60025-2	3/8-16 x 1 Hex Head Screw	6
40014	Handle	4	60025-3	3/8-16 x 1 1/2 Hex Head Screw	4
40015	Rod Locking	1	60026-1	3/8 Flat Washer	2
40016	Cam, Read Lock	1			

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60026-2	3/8 Flat Washer	1	60050	3/4-16 Hex 4 Jack Screw	2
60026-3	1/4 (thin) Flat Washer	2	60051	5/8-12 Acme Hex Nut	1
60026-4	#6 Flat Washer	1	60052	Spring Comp	1
60026-5	5/16 Flat Washer	1	60053-1	1/4-20 x 1 1/4 Socket Head Cap Screw	1
60027-1	#10-24 x 1 1/4 Socket Head Cap Screw	1	60054-1	3/8-16 NC Flat Point Socket Head Set Screw	1
60028	Wheel 4" OD Hard Rubber	2	60055	#6-32 Filler Hd. Screw	3
60029-1	1/2-13 NC Lock Hex Nut Self	1	60056-1	#10-24 x 3/4 Carriage Bolt	2
60029-2	1/4-20 NC Lock Hex Nut, Self	2	60058	1/4-20 x 3/8 Slot Head Nylon Set Screw	2
60030	Flex Grip 1" I.D.	4	60059	1/4-20 x 5/8 Filler Head Screw	3
60032-1	5/16-18 x 2 Washer Head Screw	2	60060	Special Hd. Rivet	1
60033-1	3/8-16 x 2 Washer Head Screw	4	60061	Nylon Machine Handle	2
60033-2	3/8-16 x 1 1/4 Washer Head Screw	8	60062	1/4 x 3 Rivet	2
60034	Pulley	2	60063	Switch Box	1
60035-1	5/16-18 x 1 Square Hd. Set Screw Flat Point: V-Belt	1	60064	Rail Cap	4
60036	Box Switch	1	60065-1	#13 Hair Pin Clip	2
60037	Switch	1	60066-1	1/4-20 x 1 1/4 Hex Head Bolt	4
60038	Switch	1	60067-1	5/16-18 x 1 Hex Head Screw	1
60039	Wire, Electric 3-Cond.	1	60068-1	1/4-20 x 1 1/2 Hex Head Screw	4
60040	Motor	1	70000	Shield	1
60041	10" Blade (Circular Saw)	1	70001	Scale	1
60042	Bearing	2	70002	9/16-24 Screw	1
60045-1	#10-24 NC Wing Nut	2	70003	Knob	1
60046-1	1/4-20 x 1/2 Thumb Screw	2	70004	Screw	8
60047	1/2 Dia. Power Pin	1	70005	Spacer, Rail	1
60048-1	#6-32 x 1/4 Cup Point Socket-Head Set Screw	1	70006	1/4-20 x 1 1/2 Stud	4
60049-1	1/4-20 Flat Head Screw	1	70007	1/4-20 Nut	1

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