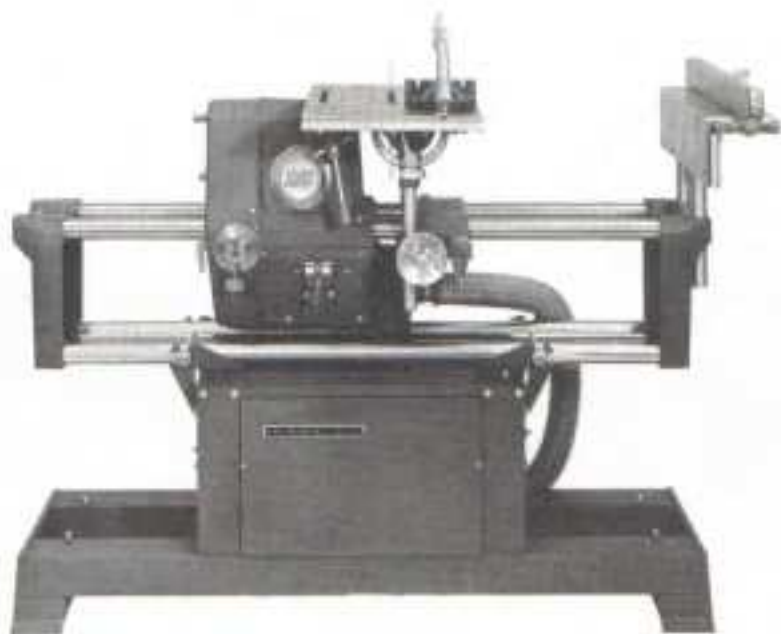




PARTS MANUAL



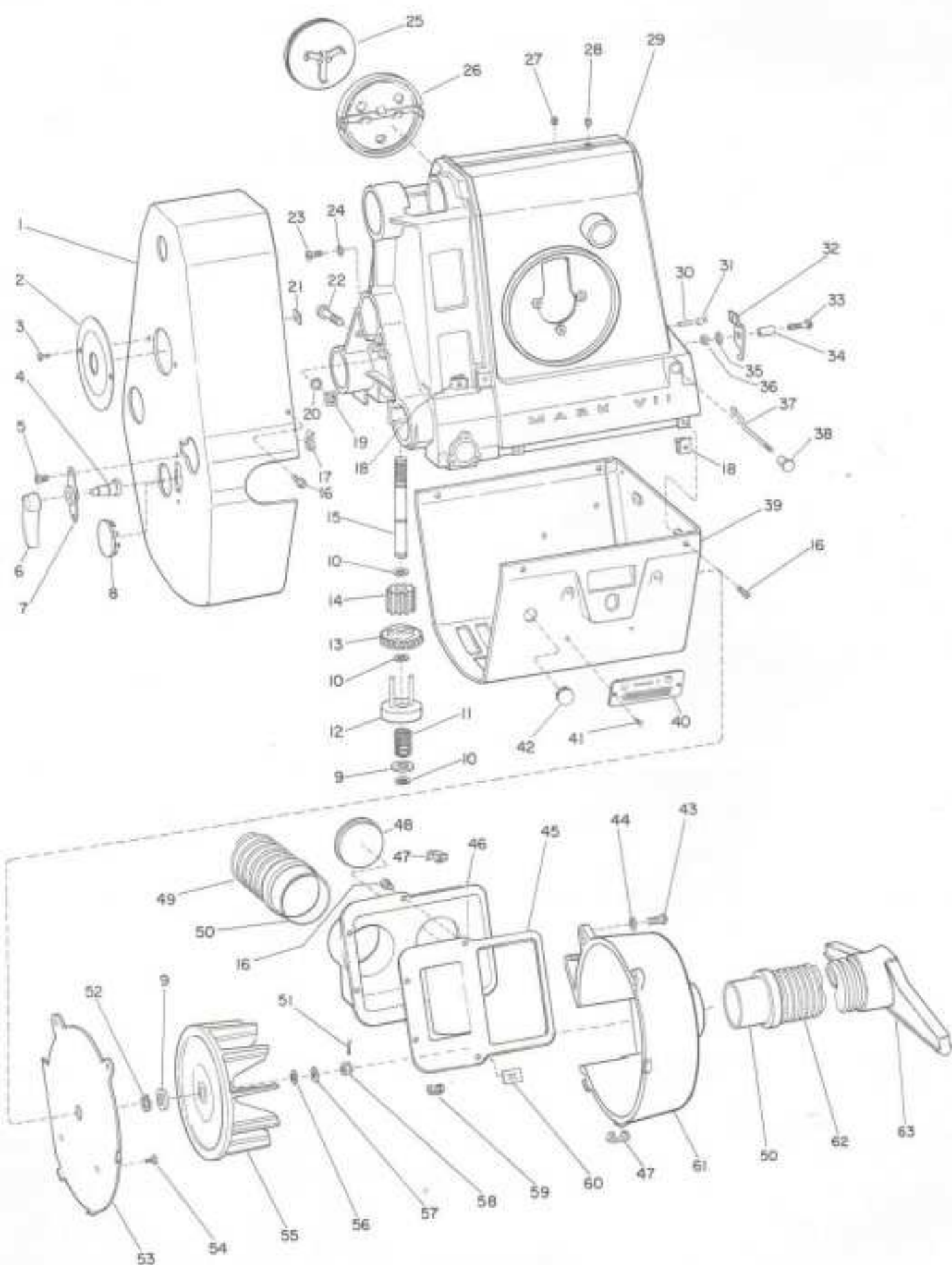
SHOPSMITH

MARK VII



Interstate 75, Evendale • Cincinnati, Ohio 45215

PARTS FOR SHOPSMITH MARK VII HEADSTOCK

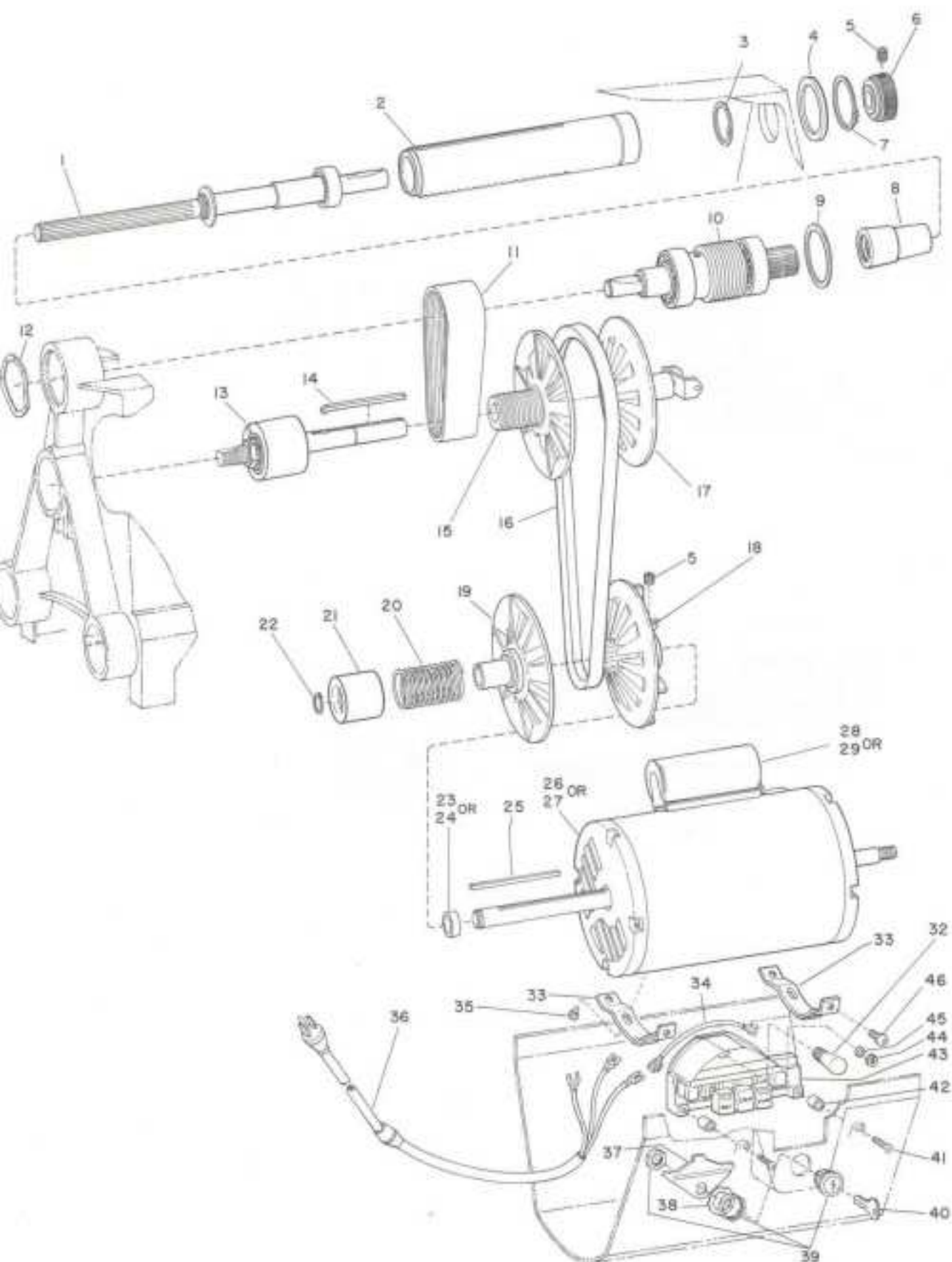


PARTS LIST FOR
SHOPSMITH MARK VII
HEADSTOCK

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
-	508454	Headstock Ass'y. Includes all parts on pages 3, 5 & 7 except 507141 (p. 3) and 501212 & 501231 (p. 7)	29	507488	Headstock
1	501356	Cover - Belt	30	455532	Pin - Roll (1/8 x 1/2)
2	507141	Cover - Vent	31	507482	Spring - Latch
3	132696	*Screw - Machine (No. 6-32 x 3/8)	32	501553	Lever - Latch
4	501362	Cam - Clutch	33	436735	*Screw (No. 10-24 x 7/8 Slotted Pan Hd.)
5	436692	*Screw - Machine (No. 8-32 x 5/16 Pan Hd.)	34	501558	Spacer - Latch
6	501361	Handle - Clutch (Incl. Setscrew)	35	501589	Washer (9/32 x 3/4 x 3/32)
7	501363	Mounting Plate - Clutch	36	501572	Locknut (No. 10-24 Hex)
8	501358	Plug - Button, 1-1/2" Hole	37	501554	Rod - Lever
9	120396	*Washer (1/2 Nom.)	38	501557	Button - Latch
10	501521	Ring - Retaining (1/2, Inverted)	39	501549	Motor Pan Assembly
11	501371	Spring	40	501198	Plate - Caution
12	501368	Assembly - Clutch Plate	41	504031	*Screw - Sheet Metal (No. 6 x 1/4)
13	501250	Wheel - Worm	42	507041	Plug Button, 13/32" Hole
14	501279	Spur Gear - Traverse	43	501606	*Screw - Machine (1/4-20 x 5/8 Pan Head)
15	501367	Shaft - Pinion	44	120380	*Lockwasher (1/4 Nom.)
16	161869	*Screw - Sheet Metal (No. 8 x 5/8)	45	501236	Plate - Backing
17	445341	*Nut - Tinnerman (No. 8-32 Type "J")	46	507861	Duct (Includes Plug Cap)
18	501656	*Nut - Tinnerman (No. 8, Type "U")	47	501233	Clip - Blower
19	120373	*Nut - Square (5/16 - 18)	48	507195	Plug Cap - Duct
20	120214	*Lockwasher (5/16 Nom.)	49	501502	Hose - Outlet (3 Ft. 8 In.)
21	445124	*Nut - Tinnerman (No. 6-32 Flat Type)	50	501445	Adapter - Hose
22	502038	Screw - Soc. Cap (5/16 - 18 x 1-1/2)	51	9418403	Pin - Cotter (5/64 x 3/4)
23	501643	Screw - Self Tapping (No. 10 x 1/2 Stove Hd. Type "Z")	52	501480	Ring - Retaining (1/2, Heavy Duty)
24	501630	*Washer (No. 10 Nom.)	53	507757	Plate - Blower Housing
25	501683	Assembly - Medallion	54	144811	*Screw - Sheet Metal (No. 10 x 1/2)
26	501249	Assembly - Escutcheon Plate	55	501234	Impeller
27	115321	*Screw - Set (5/16 - 18 x 5/16 Cup Pt.)	56	120394	*Washer (3/8 Nom.)
28	501634	Screw - Nylok Set (5/16 - 18 x 3/8 Half Dog)	57	138489	*Lockwasher (3/8 Nom. Ext. Star)
			58	102645	*Nut - Slotted (3/8 - 24)
			59	501921	Clip - Duct
			60	445132	*Nut - Tinnerman (No. 8, Flat Type)
			61	501238	Housing - Blower
			62	501443	Hose - Inlet (5 Ft.)
			63	507259	Nozzle - Utility

*Standard Hardware - May be purchased locally.

PARTS FOR
SHOPSMITH MARK VII
HEADSTOCK

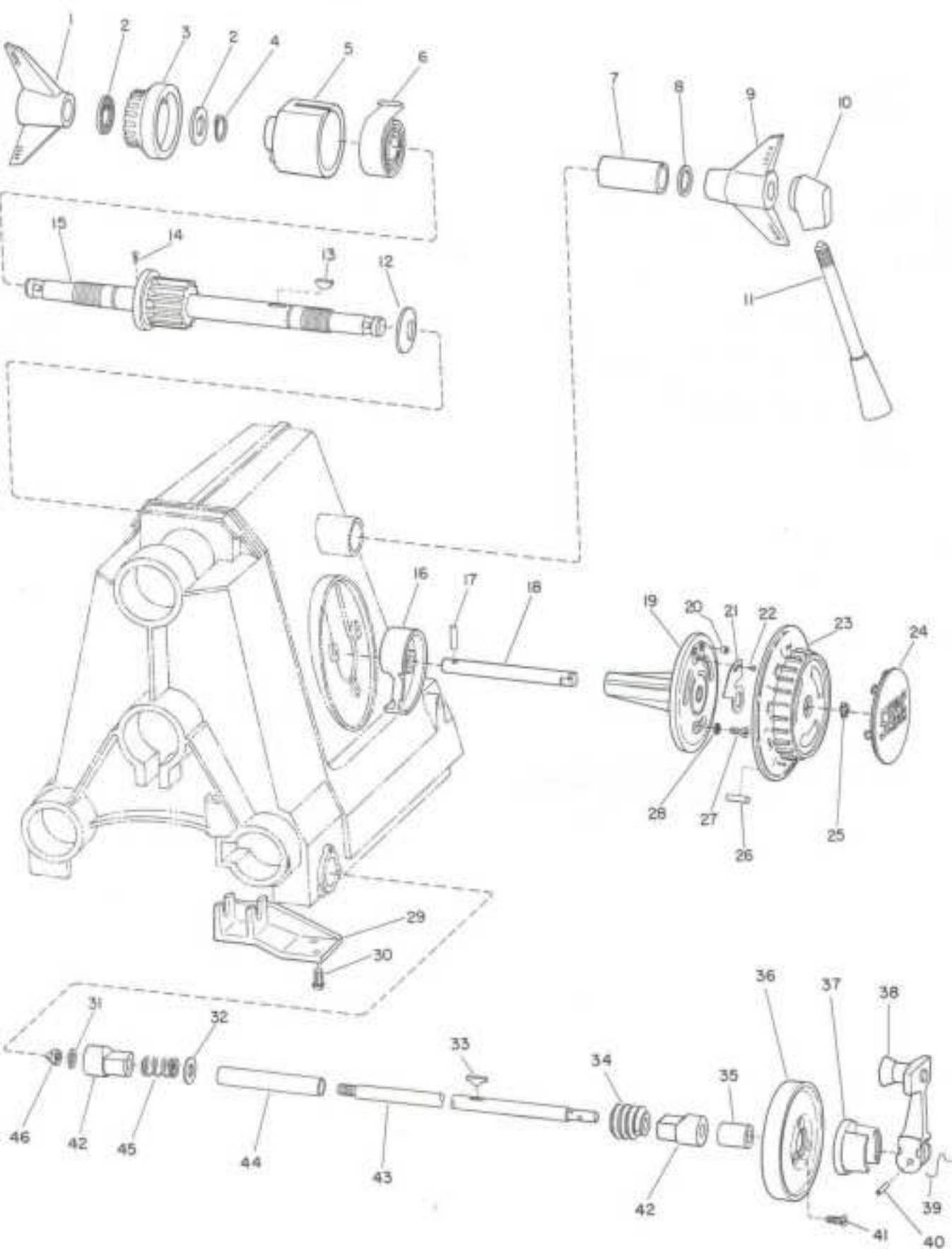


PARTS LIST FOR
SHOPSMITH MARK VII
HEADSTOCK

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	504546	Spindle Assy. - Includes Bearing and Washer	25	501213	Key - Long
2	504545	Quill	26	507231	Motor (1-1/8 H. P.), Including Capacitor - A. O. Smith
3	501622	Ring - Retaining (1-3/8, Internal)	27	507232	Motor (1-1/8 H. P.), Including Capacitor - G. E.
4	501307	Ring - Bumper	28	502087	Capacitor, A. O. Smith Only
5	102581	*Screw - Socket Set (5/16 - 18 x 3/8, Cup Point)	29	507393	Capacitor, G. E. Only
6	501306	Knob - Spindle	32	501344	Lamp - Switch (G. E. No. 6S6/3)
7	501624	Ring - Retaining (1-3/4, Inverted)	33	501221	Bracket - Motor
8	501294	Assembly - Drive and Ring	34	501596	Jumper
9	501621	Ring - Retaining	35	447821	Screw - Tapping (No. 10-24 x 3/8 Pan Hd.)
10	501284	Assembly - Drive Sleeve (Includes Item 8)	36	501211	Cord and Plug
11	507491	Belt - Poly "V"	37	501349	Plate - Selector
12	501299	Ring - Retaining (Waved)	38	501689	Washer - Spring
13	501324	Assembly - Idler Shaft	39	501347	Assembly - Lock (Includes Key)
14	501320	Key	40	501348	Key - Lock
15	501207	Sheave - Idler Shaft	41	436672	*Screw - Pan Hd. (No. 6-32 x 1-3/4)
16	507490	Belt - Motor Drive	42	507694	Stand-off - Switch
17	501325	Sheave - Control Assembly	43	501188	Switch
18	501227	Sheave - Motor Shaft	44	134530	*Hex Nut, #6-32
19	501209	Sheave - Floating	45	138473	*Lockwasher, #6 External Tooth
20	501628	Spring - Motor Shaft	46	191986	Screw - Pan Hd. (1/4-20 x 3/8 Phillips Sem.)
21	501657	Case - Spring			
22	501645	Ring - Retaining (5/8, External)			
23	501343	Sleeve - Thrust (For A. O. Smith Motor Only)			
24	501353	Sleeve - Thrust (For G. E. Motor Only)			

*Standard Hardware - May be purchased locally.

PARTS FOR SHOPSMITH MARK VII HEADSTOCK

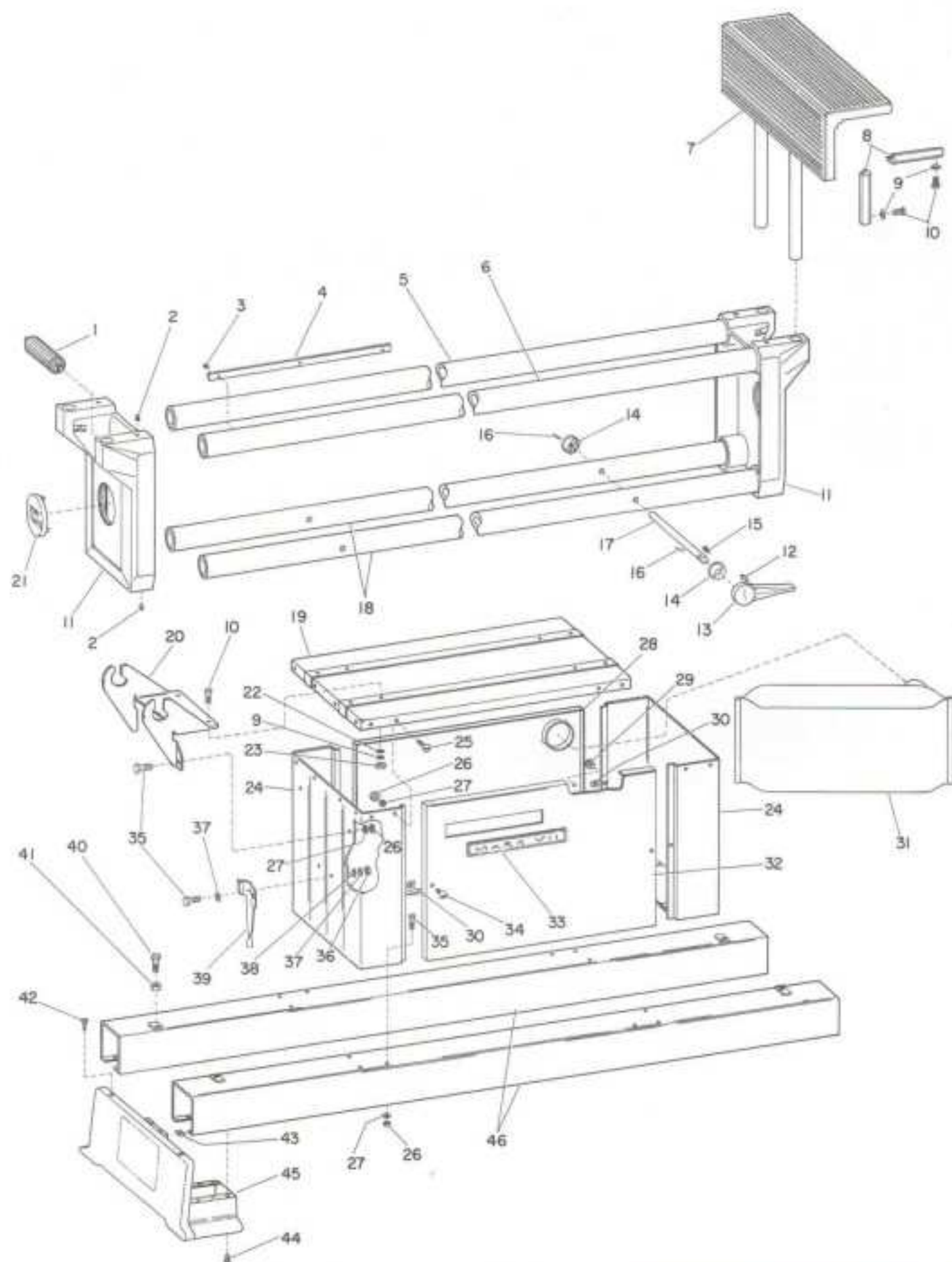


PARTS LIST FOR
SHOPSMITH MARK VII
HEADSTOCK

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	501203	Lock - Feed Stop	26	455532	Pin - Roll (1/8 x 1/2)
2	501311	Washer - Serrated	27	447823	Screw - Tapping (No. 10-24 x 1/2 Pan Hd.)
3	501314	Dial - Depth Gauge	28	121801	Lockwasher - Internal Tooth (No. 10)
4	501626	Ring - Retaining (3/4, External)	29	501246	Bracket - Worm
5	501310	Housing - Spring	30	503865	Screw - Tapping (1/4-20 x 1/2 Hex Hd.)
6	501315	Spring - Quill	31	120393	*Washer (5/16 Nom.)
7	501318	Sleeve - Quill Feed	32	120395	*Washer (7/16 Nom.)
8	501631	Washer - Bowed	33	501646	Key - Hypo
9	501204	Lock - Quill	34	501241	Worm
10	501212	Hub - Quill Handle	35	501365	Spacer - Lock
11	501231	Handle - Feed Lever	36	501222	Stop - Lock
12	501317	Washer - Spherical	37	501218	Hub - Handle
13	110731	*Key - Woodruff (3/32 x 5/8)	38	501685	Assembly - Lock Handle
14	145378	Screw - Drive (No. 6 x 5/16)	39	501599	Spring - Hub
15	501312	Pinion - Quill Feed	40	273436	Pin - Roll (1/8 x 11/16)
16	501337	Cam - Control	41	447213	Screw - Tapping (No. 8-32 x 1/2 Flat Hd.)
17	455734	Pin - Roll (1/8 x 3/4)	42	501243	Wedge - Lock
18	501336	Shaft	43	501240	Shaft - Lock
19	501332	Bracket - Control Assembly	44	504490	Spacer Tube-Spring
20	501912	Catch - Bullet (3/8)	45	501242	Spring
21	501883	Stop - Plate	46	443334	Nut - Hex (5/16-24 Flexloc)
22	448013	Screw - Tapping (No. 8-32 x 1/2 Pan Hd.)			
23	502792	Assembly - Control Knob (Includes #455532, Pin - Roll)			
24	501683	Assembly - Medallion			
25	501478	Ring - Retaining (7/16, External)			

* Standard Hardware - May be purchased locally.

PARTS FOR
SHOPSMITH MARK VII
BASE AND BED

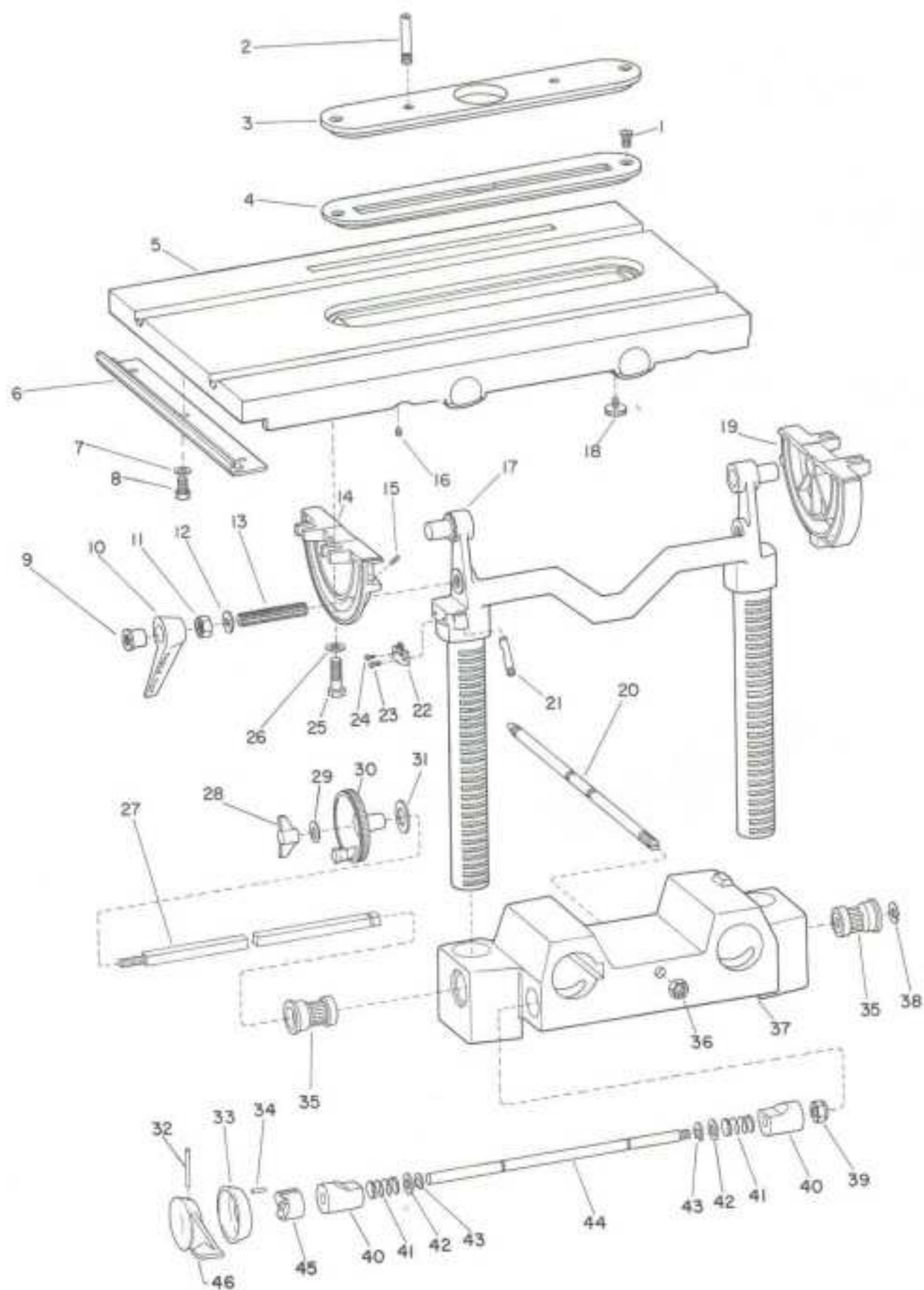


PARTS LIST FOR
SHOPSMITH MARK VII
BASE AND BED

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	501286	Assembly - Handle	25	137952	*Screw - Truss Hd. (1/4-20 x 3/8)
2	102580	*Screw - Set (5/16-18 x 1/4 Hex Soc. Cup Pt.)	26	120375	*Nut - Hex (1/4-20)
3	501476	Rivet - Self-Heading	27	120380	*Lockwasher (1/4 Nom.)
4	501190	Rack	28	501544	Panel - Rear
5	501193	Tube - Rear Way	29	501569	Screw - Thumb (No. 6-32 x 1)
6	501280	Tube - Front Way	30	445370	*Nut - Tinnerman (No. 6-32 Type "J")
7	501416	Assembly - Extension Table	31	505674	Dust Bag (Pkg. of 3)
8	501270	Bar - Extension Table	32	501543	Panel - Front
9	120214	*Lockwasher (5/16 Nom.)	33	507185	Logo - "Mark VII"
10	120228	*Bolt - Hex. Hd. (5/16-18 x 5/8)	34	501568	*Screw - Truss Hd. (No. 6-32 x 1 Slotted)
11	501541	End Cap	35	120706	*Bolt - Hex Hd. (1/4-20 x 1/2)
12	501525	Catch - Bullet	36	501613	Locknut - Hex (1/4-20 Jam)
13	501524	Handle - Trunnion Lock	37	501589	*Washer - Plain (1/4 Nom.)
14	501522	Key - Trunnion	38	501875	Washer - Bowed
15	450221	Screw - Tapping (No. 10-24 x 3/8 Fil. Hd. Phillips)	39	501501	Latch - Safety
16	273337	Pin - Roll (1/8 x 5/8)	40	122007	*Screw - Adjusting (5/16-18 x 3/4 Hex Hd.)
17	501523	Rod - Trunnion	41	124824	*Nut - Jam (5/16-18)
18	501189	Bed - Tubular	42	128273	*Sheet Metal Screw (#6 x 3/8)
19	501537	Deck	43	501881	*Nut - Tinnerman (No. 10-24 Type "U")
20	501542	Bracket - Trunnion	44	436730	*Screw - Pan Hd. (No. 10-24 x 3/8)
21	501677	Assembly - Medallion	45	507242	Assembly - Foot
22	120393	*Washer (5/16 Nom.)	46	507239	Assembly - Rail
23	120376	*Nut - Hex (5/16-18)			
24	501547	Frame - End			

* Standard Hardware - May be purchased locally.

PARTS FOR
SHOPSMITH MARK VII
CARRIAGE AND TABLE

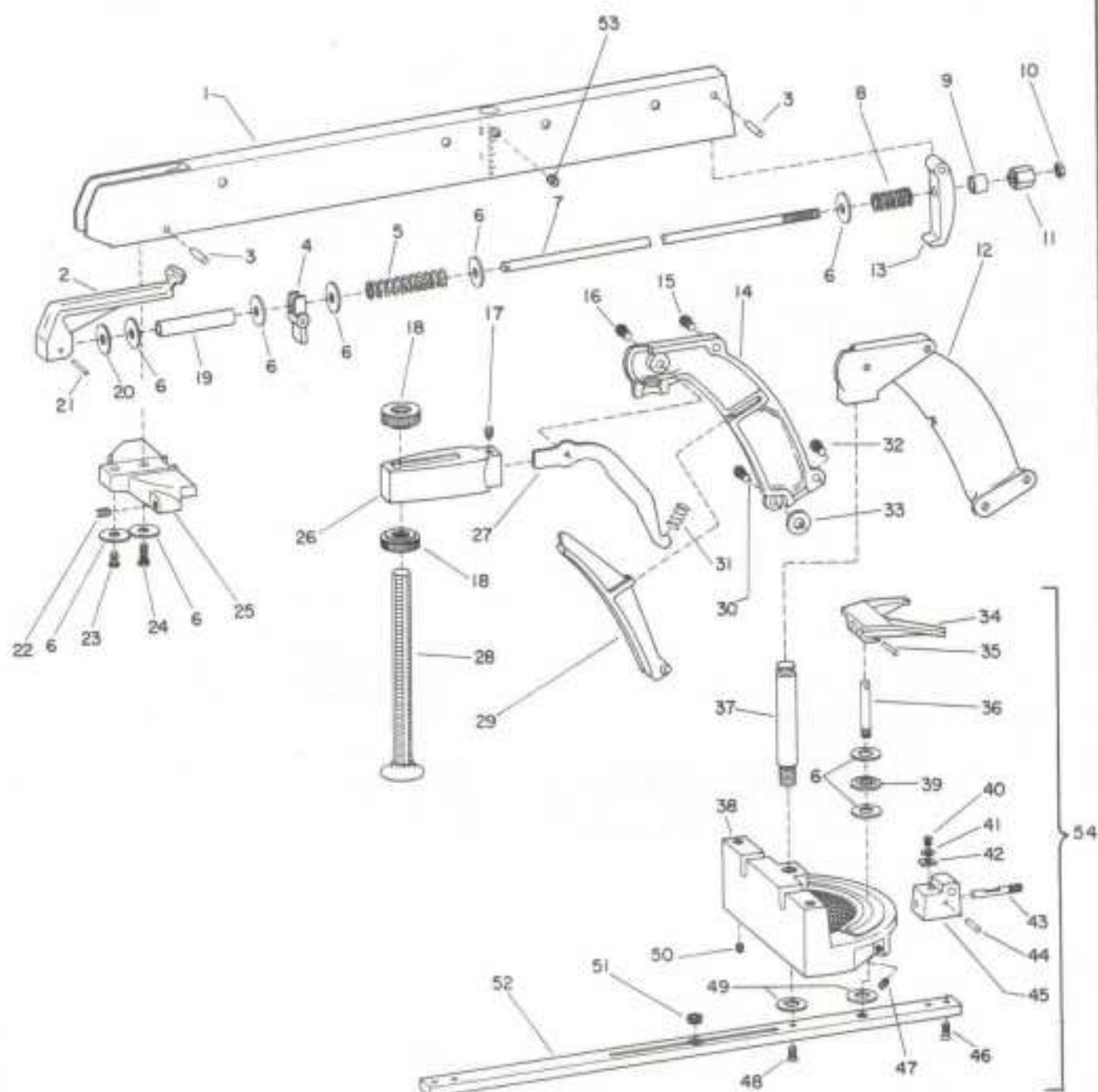


PARTS LIST FOR
SHOPSMITH MARK VII
CARRIAGE AND TABLE

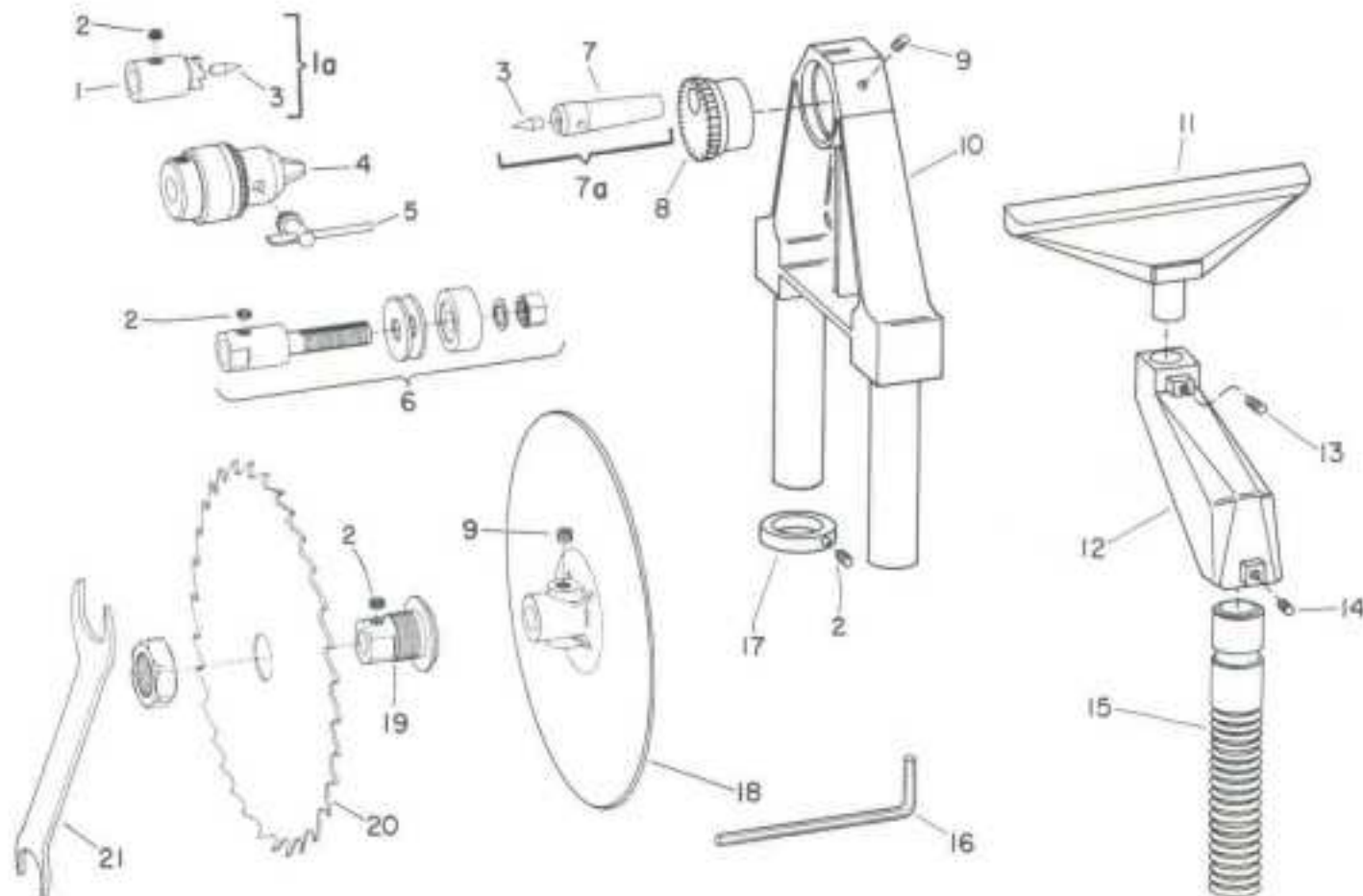
Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	501637	Screw - Cap (1/4-20 x 1/2 Flat Hd.)	26	501633	Washer - Special (3/8 Nom.)
2	501551	Post - Shaper Insert	27	504258	Shaft
3	505509	Insert - Shaper (Includes Posts)	28	507509	Knob - Table Height Lock
4	501379	Insert - Saw	29	120388	*Washer (3/8 Nom.)
5	501251	Table	30	507498	Assembly - Wheel Crank
6	501378	Bar	31	501598	*Washer (5/8 Nom.)
7	120214	*Lockwasher (5/16 Nom.)	32	455921	Pin - Roll (1/8 x 1-1/2)
8	120228	*Bolt - Hex Hd. (5/16-18 x 5/8)	33	501536	Hub - Handle
9	501388	Cap - Trunnion Stud	34	455532	Pin - Roll (1/8 x 1/2)
10	501220	Handle - Table Tilt	35	501392	Assembly - Pinion
11	120369	*Nut - Hex (3/8-24)	36	124925	*Nut - Hex Jam (3/8-24)
12	501387	Washer (3/8 Square Nom.)	37	501390	Carriage
13	501384	Stud - Trunnion	38	504259	Washer - Retaining
14	501481	Trunnion - Front	39	443334	Nut - Hex (5/16-24 Flexloc)
15	501407	Screw - Set (No. 10-32 Nylok Special)	40	501243	Wedge - Lock
16	501647	Screw - Set (5/16-18 x 5/8 Nylok)	41	501242	Spring
17	507768	Assembly - Tie Bar	42	120395	*Washer (7/16 Nom.)
18	501410	Screw - Thumb	43	501518	Ring - Retaining (7/16, "E" Type)
19	501482	Trunnion - Rear	44	501260	Shaft - Lock
20	501559	Shaft - Interlatch	45	501530	Spacer - Cam Lock
21	501258	Plunger - Stop	46	501531	Handle - Lock
22	501257	Plate - Indicator			
23	447825	Screw - Tapping (No. 10-24 x 5/8 Pan Hd.)			
24	447823	Screw - Tapping (No. 10-24 x 1/2 Pan Hd.)			
25	9415838	*Screw - Machine (3/8-16 x 1 Hex Hd.)			

* Standard Hardware - May be purchased locally.

PARTS FOR
SHOPSMITH MARK VII
FENCE, MITER GAUGE AND GRIP



PARTS FOR
SHOPSMITH MARK VII
TAILSTOCK, TOOL REST,
CENTERS, ARBORS
SAW AND SANDING DISC

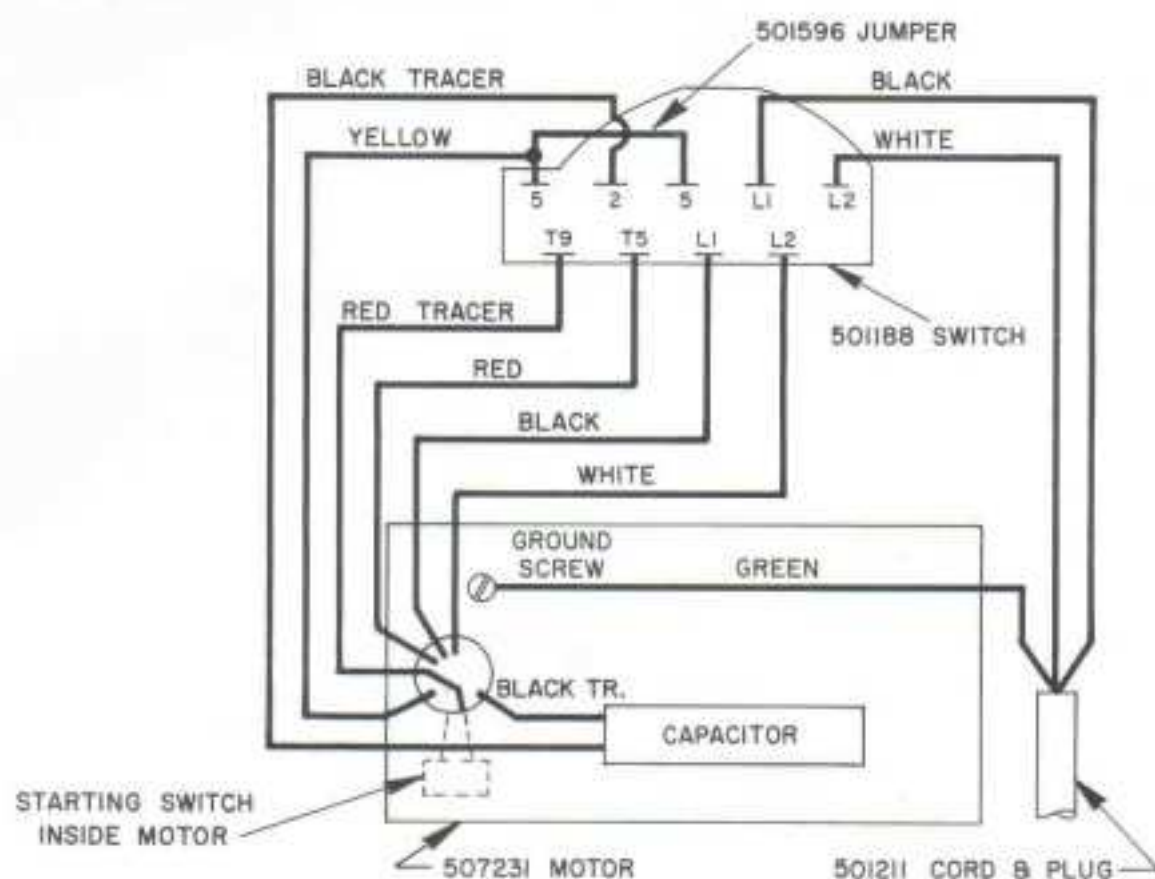


PARTS LIST FOR
SHOPSMITH MARK VII
TAILSTOCK, TOOL REST
CENTERS, ARBORS,
SAW AND SANDING DISC

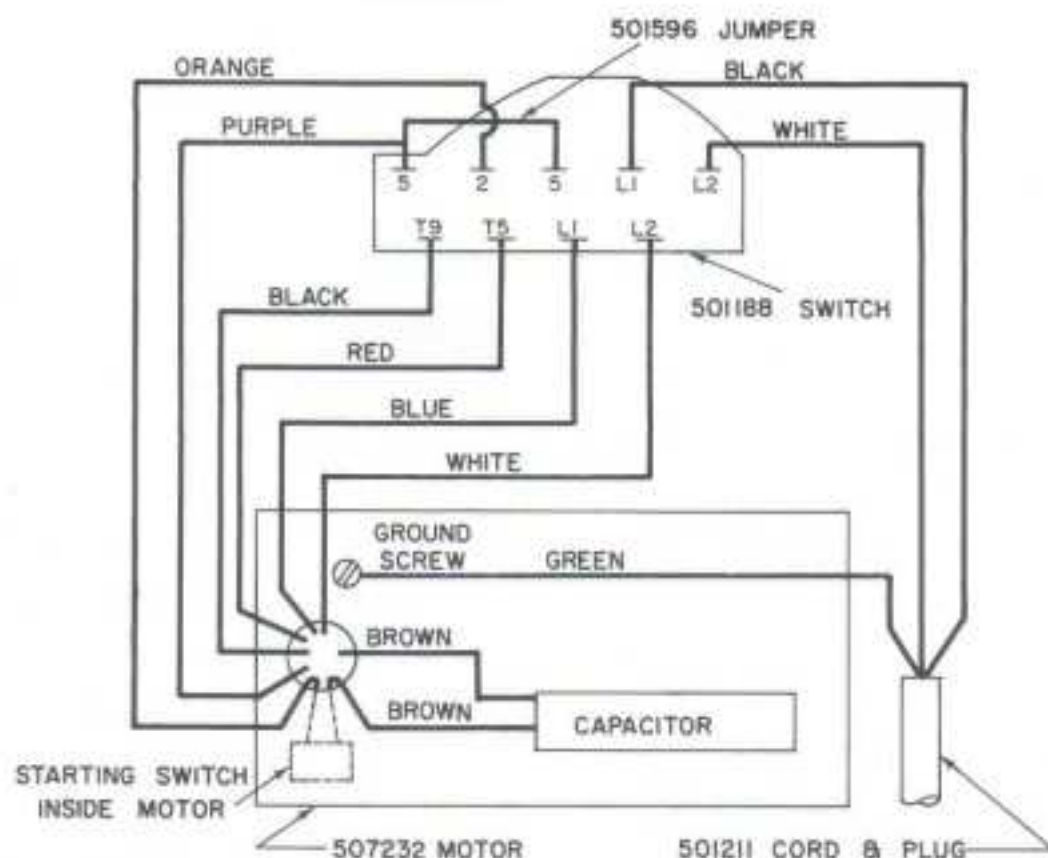
Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1a	501428	Ass'y. - Drive Center	10	501435	Assembly - Tailstock and Tube
1	501429	Center - Drive	11	501441	Rest - Tool
2	222458	Screw - Set (5/16-18 x 1/4 Flat Pt. Soc.)	12	501442	Arm - Tool Rest
3	501430	Pin - Center	13	102585	*Screw - Set (5/16-18 x 7/8 Cup Pt. Soc.)
4	505633	Chuck (Includes Set Screw & Key)	14	102582	*Screw - Set (5/16-18 x 1/2 Cup Pt. Soc.)
5	501419	*Key - Chuck	15	501354	Tube - Tool Rest
6	505505	Arbor - 1/2 Inch (Incl. Spacers, Tongue Washer, Nut & Setscrew)	16	501459	Allen Wrench (5/32 Extra Long)
7a	501431	Ass'y. - Cup Center	17	501439	Collar - Tube
7	501432	Center - Cup	18	505550	Disc - Sanding (Incl. Setscrew)
8	501437	Eccentric Mount	19	505511	Arbor - Saw (Incl. Nut & Setscrew)
9	222460	*Screw - Set (5/16-18 x 3/8 Flat Pt. Soc.)	20	505544	Blade - All Purpose 10"
			21	501425	Wrench - Arbor Nut

* Standard Hardware - May be purchased locally.

ELECTRICAL CONNECTION DIAGRAMS



With A. O. Smith Motor



With General Electric Motor

SHOPSMITH MARK VII SPEED CHART

SPEED-DIAL SETTING—100'S

SPEED-DIAL SETTING—100'S

OPERATION

HARD-
WOOD SOFT-
WOOD

OPERATION

HARD-
WOOD SOFT-
WOOD

TABLE SAW

General Sawing . . .	36 . . . 36
Heavy Ripping . . .	27 . . . 30
Trim Cuts	39 . . . 39
6" Dado Assembly . .	36 . . . 36
Magna Dado	24 . . . 24
Magna Molder . . .	30 . . . 36

DRILL PRESS OR HORIZONTAL DRILL

Drilling, up to 1/4" . .	28 . . . 38
Drilling, 1/4" to 1/2" .	26 . . . 31
Drilling, 1/2" to 3/4" .	20 . . . 23
Drilling, 3/4" to 1" . .	13 . . . 20
Drilling, over 1" . . .	7 . . . 8
Plug Cutting	31 . . . 33
Routing	43 . . . 50
Shaping	47 . . . 52
Mortising	22 . . . 33

DISC SANDER

Coarse Paper	10 . . . 11
Medium Paper	12 . . . 13
Fine Paper	15 . . . 18

LATHE

		Rough Shape	Finish
Up to 2" diameter . .	9 . . . 26 . . . 43		
2" to 4" diameter . .	8 . . . 23 . . . 33		
4" to 6" diameter . .	8 . . . 18 . . . 23		
6" to 8" diameter . .	7 . . . 12 . . . 18		
Over 8" diameter . .	7 . . . 7 . . . 8		

DRUM SANDER

Coarse Sleeve	18 . . . 20
Fine Sleeve	20 . . . 22

JIGSAW

Heavy Stock	7 . . . 8
Medium Stock	9 . . . 12
Thin Stock	15 . . . 22
Filing or Sanding . .	7 . . . 8

BANDSAW

1/8" Blade	9 . . . 9
1/4" or 3/8" Blade . .	8 . . . 8
1/2" Blade	7 . . . 8
Heavy Resawing . . .	7 . . . 7

SPRAY FINISHING

Internal Mix	10
External Mix	10

JOINTER

Finishing Cuts	33 . . . 38
Heavy Cuts	23 . . . 28

BELT SANDER

Coarse Belt	11 . . . 12
Medium Belt	13 . . . 15
Fine Belt	15 . . . 18

NOTE: For unusual operations or speeds for metal or plastic, see this manual or the book POWER TOOL WOODWORKING FOR EVERYONE. Speeds on this chart are recommended average speeds . . . whenever there is any doubt, start with a lower speed.



SHOPSMITH**

MAGNA**

SPEEDIAL**

SPEED-DIAL**

**TRADEMARK

*Reg. U. S. Pat. Off.

