

REPAIR PARTS
for
BROWN & SHARPE
No. **2** UNIVERSAL, No. **2** PLAIN
and
No. **2** VERTICAL
MILLING MACHINES
Light Type
and
Light Type—With Power Fast Travel



THE parts are arranged in the illustrations so far as possible in the same relative positions as in the machines. This is to facilitate stripping and assembling as well as identifying the parts.

When ordering repair parts, it is essential that the size, style and serial number of the machine be given in addition to the part number and name given in this booklet.

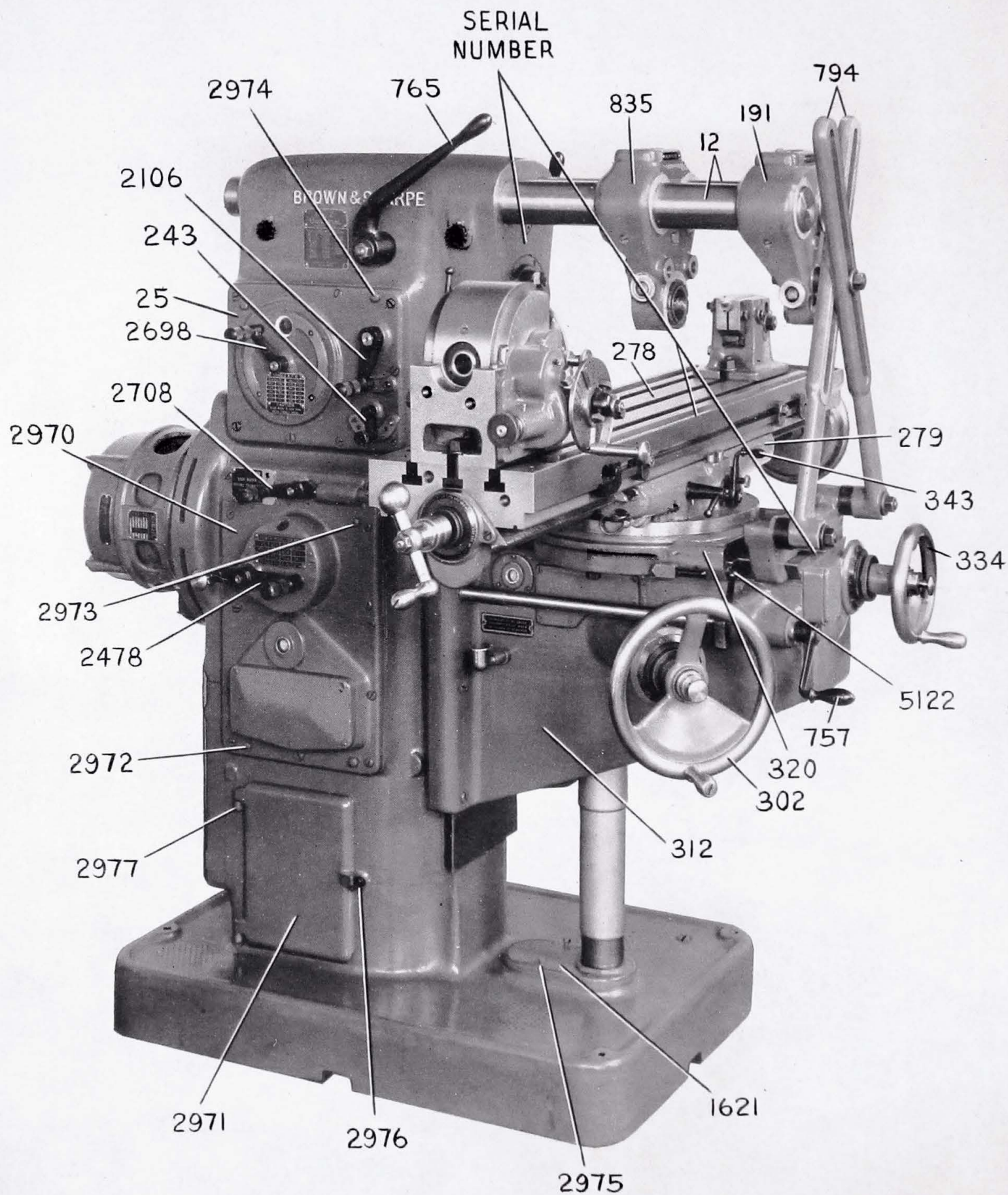
The parts are shown separated to make the construction of the machine more readily understood and to show each part to the best advantage. In some cases when a particular part is ordered, however, not only that part but one or more supplementary parts also may be sent when, from our experience, this is known to be advisable for a more satisfactory repair job.

Repair parts, in some cases, will require fitting and therefore may need holes to be drilled, shoulders to be squared or similar machining in order to make them fit properly.

Please keep this booklet in the hands of the individual in your organization who is responsible for the *repair* of these machines.

BROWN & SHARPE MFG. CO.

PROVIDENCE, R. I., U. S. A.



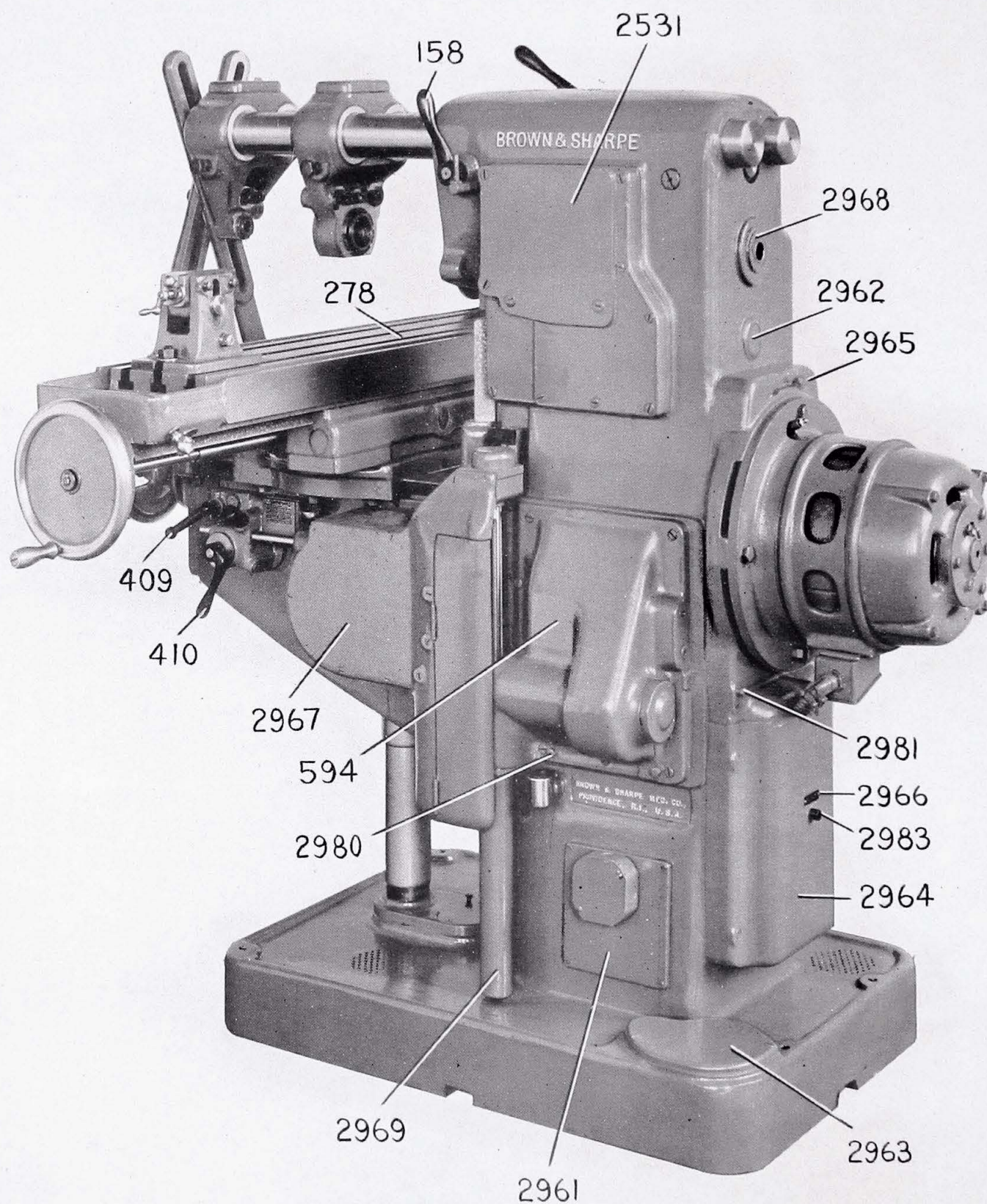
Front View
 Universal and Plain Machines
 (Universal Machine Shown)

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Front View

Universal and Plain Machines

12	Overarm
25	Speed Case
191	Arbor Yoke, Outer
243	Spindle Reverse Lever
278	Table
279	Saddle
302	Knee Elevating Shaft Handwheel
312	Knee
320	Clamp Bed
334	Cross Feed Handwheel
343	Table Feed Trip Lever
757	Knee Clamp Shaft Crank
765	Starting Lever
794	Arm Support
835	Arbor Yoke, Inner
1621	Knee Screw Horn
2106	Back Gear Locking Lever
2478	Feed Change Lever
2698	Speed Change Lever
2708	Speed Series Lever
2970	Feed Control Case
2971	Change Gear Box Cover
2972	Lubricating Pump Bracket Dowel
2973	Feed Control Case Dowel
2974	Speed Case Dowel
2975	Knee Screw Horn Dowel
2976	Change Gear Box Cover Latch
2977	Gear Box Cover Hinge Stud
5122	Feed Reverse Lever



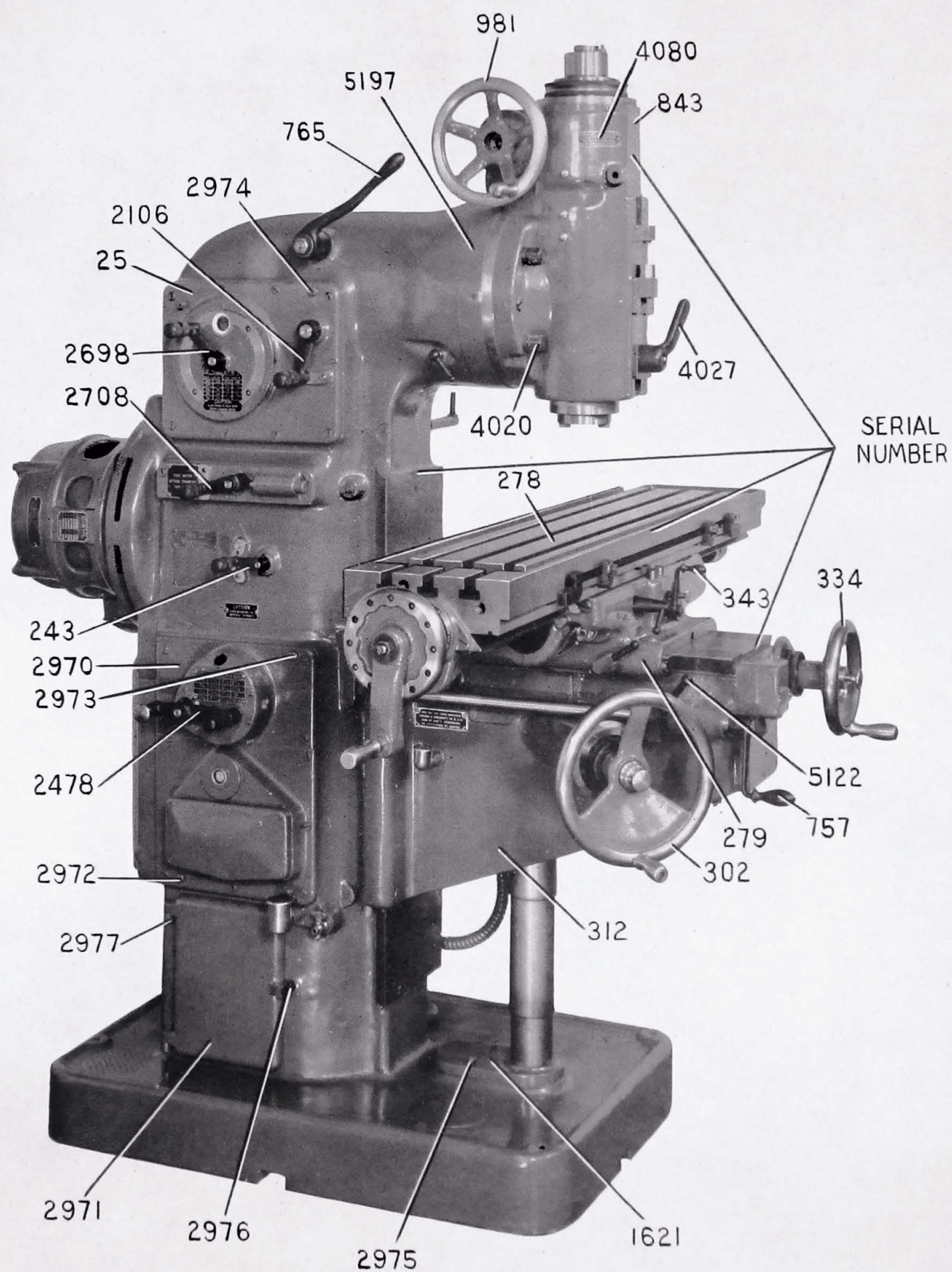
Rear View
Universal and Plain Machines
(Universal Machine Shown)

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Rear View

Universal and Plain Machines

158	Arm Clamp Lever
278	Table
409	Cross Feed Trip Pinion Handle
410	Vertical Feed Clutch Lever
594	Feed Case
2531	Stand Opening Cover
2961	Stand Opening Cover, Lower
2962	Speed Drive Shaft Hole Cover
2963	Pump Opening Cover
2964	Magnetic Starter Cover
2965	Motor Bracket
2966	Reset Push Button Plate
2967	Feed Reverse Case Cover
2968	Spindle Bearing Rear Dust Guard
2969	Feed Worm Shaft Bearing Sleeve
2980	Feed Case Dowel
2981	Motor Bracket Dowel (State Upper or Lower)
2983	Push Button Extension



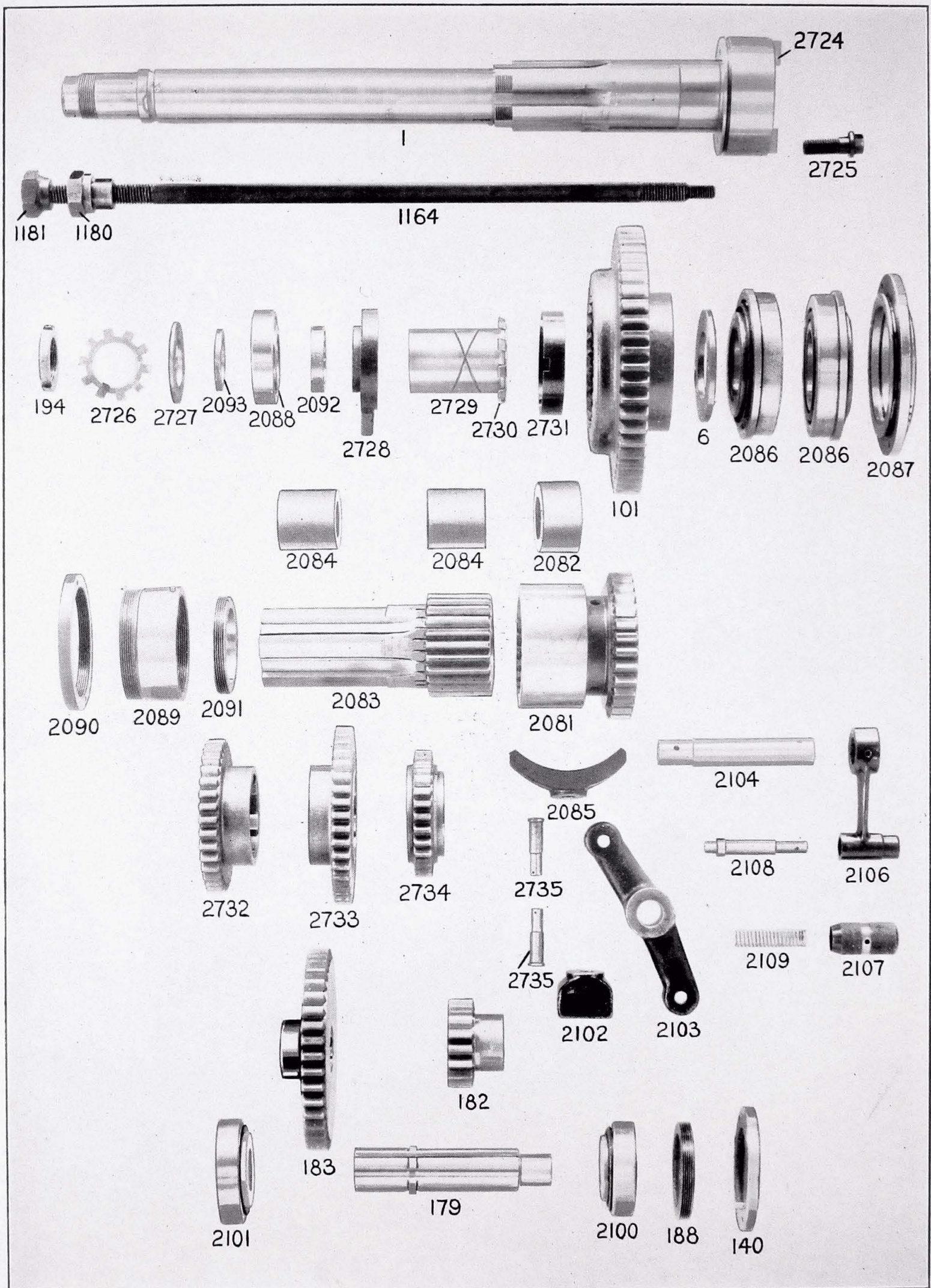
Front View
Vertical Machines
 (Machine with Power Fast Travel Shown)

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Front View

Vertical Machines

25	Speed Case
243	Spindle Reverse Lever
278	Table
279	Saddle
302	Knee Elevating Shaft Handwheel
312	Knee
334	Cross Feed Handwheel
343	Table Feed Trip Lever
757	Knee Clamp Shaft Crank
765	Starting Lever
843	Spindle Head
981	Spindle Elevating Handwheel
1621	Knee Screw Horn
2106	Back Gear Locking Lever
2478	Feed Change Lever
2698	Speed Change Lever
2708	Speed Series Lever
2970	Feed Control Case
2971	Change Gear Box Cover
2972	Lubricating Pump Bracket Dowel
2973	Feed Control Case Dowel
2974	Speed Case Dowel
2975	Knee Screw Horn Dowel
2976	Change Gear Box Cover Latch
2977	Gear Box Cover Hinge Stud
4020	Spindle Head Clamp Bolt
4027	Spindle Clamp Lever
4080	Oiling Notice Plate
5122	Feed Reverse Lever
5197	Spindle Head Adapter Plate



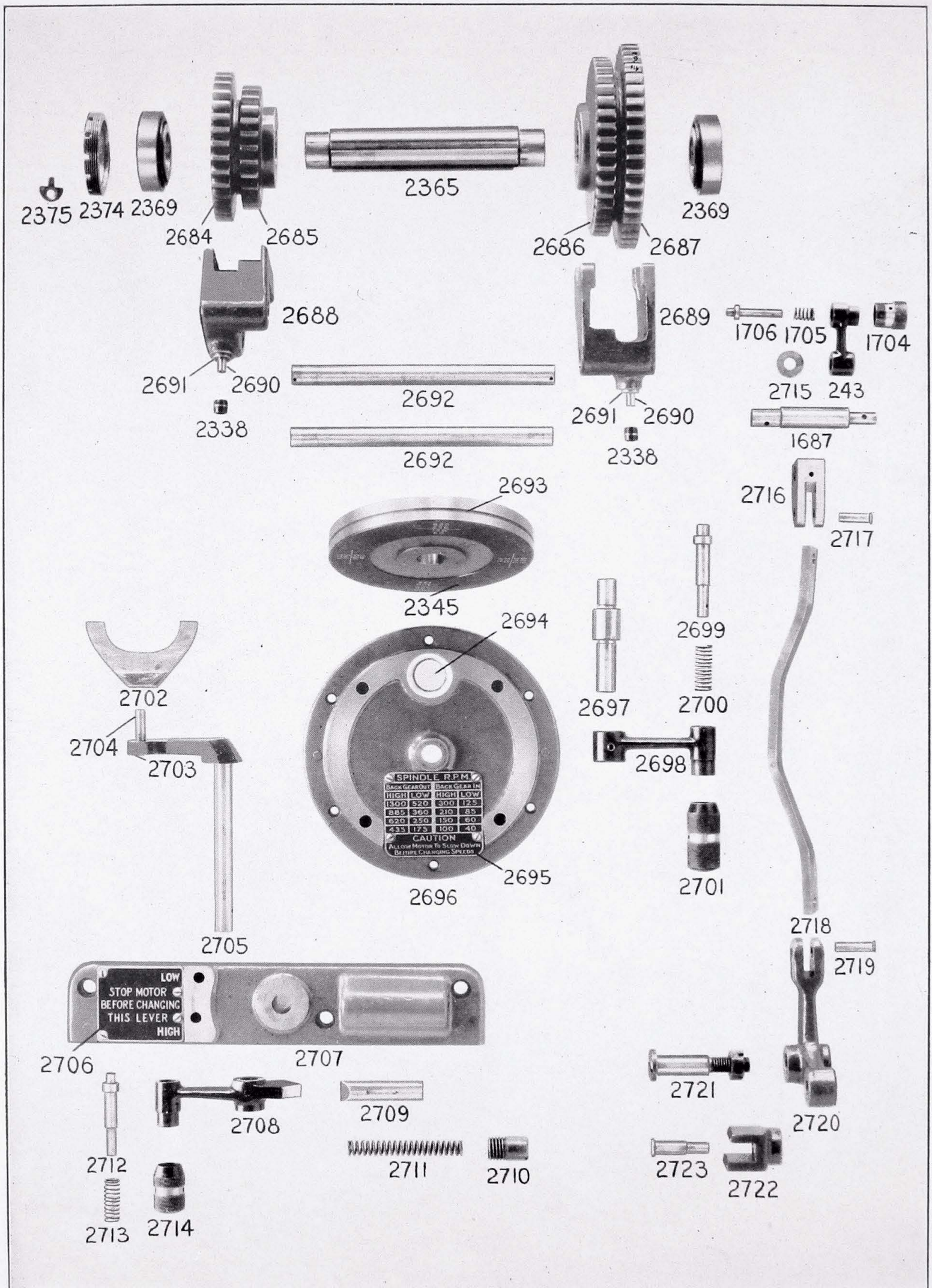
Spindle and Back Gears
Universal and Plain Machines

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Spindle and Back Gears

Universal and Plain Machines

1	Spindle	2092	Spindle Bearing (Rear) Spacer
6	Spindle Bearing Thrust Washer	2093	Spindle Roller Bearing Washer
101	Spindle Gear	2100	Back Gear Shaft Roller Bearing, Front
140	Stand Plug, Upper	2101	Back Gear Roller Bearing, Rear
179	Back Gear Shaft	2102	Back Gear Shoe
182	Back Gear, Small	2103	Back Gear Change Lever
183	Back Gear, Large	2104	Back Gear Lever Shaft
188	Back Gear Thrust Bearing Cap	2106	Back Gear Locking Lever
194	Spindle Nut, Rear	2107	Back Gear Locking Lever Handle
1164	Draw-in Bolt, Complete	2108	Back Gear Locking Pin
1180	Draw-in Bolt Nut	2109	Back Gear Locking Pin Spring
1181	Draw-in Bolt Knob	2724	Spindle Nose Key
2081	Spindle Sliding Gear	2725	Holding Screw
2082	Spindle Sliding Gear Bushing	2726	Spindle Lock Washer, Rear
2083	Spindle Gear (Rear) No. 1	2727	Spindle Washer, Rear
2084	Spindle Gear (Rear) Bushing	2728	Spindle Oiler
2085	Spindle Sliding Gear Shoe	2729	Spindle Sliding Gear Bushing Bearing
2086	Spindle Roller Bearing, Front	2730	Spindle Gear Nut Lock Washer
2087	Spindle Bearing (Front) Dust Guard	2731	Spindle Gear Nut
2088	Spindle Roller Bearing, Rear	2732	Spindle Gear (Rear) No. 4
2089	Spindle Bearing (Rear) Holder	2733	Spindle Gear (Rear) No. 3
2090	Spindle Bearing (Rear) Holder Nut	2734	Spindle Gear (Rear) No. 2
2091	Spindle Bearing (Rear) Clamp Nut	2735	Gear Shoe Stud



Speed Case

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Speed Case

243	Spindle Reverse Lever	2699	Speed Change Lever Pin
1687	Spindle Reverse Lever Shaft	2700	Speed Change Lever Spring
1704	Spindle Reverse Lever Handle	2701	Speed Change Lever Handle
1705	Spindle Reverse Lever Spring	2702	Drive Shaft Sliding Gear Shoe
1706	Spindle Reverse Lever Pin	2703	Drive Shaft Gear Shoe Lever
2338	Speed Cam Roll	2704	Gear Shoe Lever Pin
2345	Speed Change Dial	2705	Gear Shoe Lever Shaft
2365	Speed Sliding Gear Shaft	2706	Speed Series Plate
2369	Sliding Gear Shaft Roller Bearing	2707	Speed Change Lever Bracket
2374	Thrust Bearing Adjusting Collar	2708	Speed Series Lever
2375	Thrust Bearing Adjusting Collar Lock	2709	Speed Series Lever Plunger
2684	Speed Sliding Gear, No. 4	2710	Speed Series Lever Plunger Screw
2685	Speed Sliding Gear, No. 3	2711	Speed Series Lever Plunger Spring
2686	Speed Sliding Gear, No. 2	2712	Speed Series Lever Pin
2687	Speed Sliding Gear, No. 1	2713	Speed Series Lever Spring
2688	Speed Sliding Gear (Nos. 3 & 4) Shoe	2714	Speed Series Lever Handle
2689	Speed Sliding Gear (Nos. 1 & 2) Shoe	2715	Spindle Reverse Lever Shaft Washer
2690	Sliding Gear Shoe Stud	2716	Spindle Reverse Link Lever
2691	Sliding Gear Shoe Stud Washer	2717	Spindle Reverse Link Lever Pin
2692	Speed Sliding Gear Shoe Shaft	2718	Spindle Reverse Link
2693	Speed Change Dial Operating Cam	2719	Spindle Reverse Shoe Lever Pin
2694	Glass Disc	2720	Spindle Reverse Shoe Lever
2695	Speed Plate	2721	Spindle Reverse Shoe Lever Stud
2696	Speed Case Cover	2722	Spindle Reverse Gear Shoe
2697	Dial Operating Cam Shaft	2723	Spindle Reverse Gear Shoe Stud
2698	Speed Change Lever		



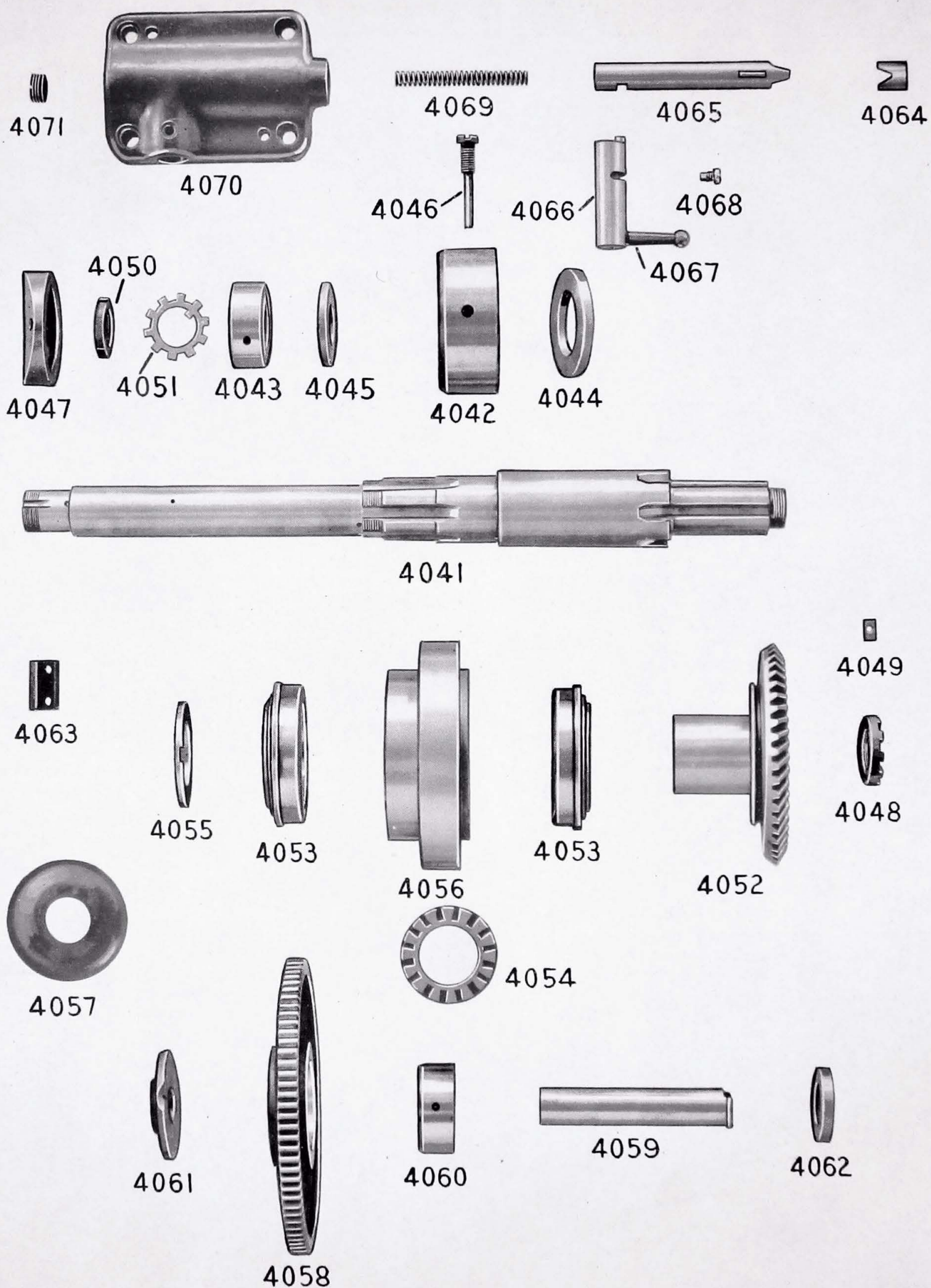
Spindle Head
Vertical Machines

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Spindle Head

Vertical Machines

1	Spindle	4003	Spindle Elevating Screw Cap
6	Spindle Bearing Thrust Washer	4004	Spindle Elevating Screw Cap Key
7	Spindle Nut, Lower	4005	Elevating Screw Dust Guard
101	Spindle Gear	4006	Spindle Elevating Nut Ball Bearing
194	Spindle Nut, Upper	4007	Spindle Elevating Gear Shaft Cap
886	Spindle Elevating Gear	4008	Elevating Gear Shaft Ball Bearing
887	Spindle Elevating Nut	4009	Elevating Gear Shaft Spacer
888	Spindle Elevating Gear Shaft	4010	Elevating Gear Shaft Lockwasher
905	Spindle Head Stop Bracket	4011	Spindle Elevating Gear Shaft Nut
919	Spindle Head Adjusting Slide Gib	4012	Elevating Handwheel Locking Plunger
977	Spindle Gear Roller Bearing (State Whether With Keyway)	4013	Elevating Handwheel Locking Spring
1164	Draw-in Bolt, Complete	4014	Handwheel Locking Bushing Screw
1180	Draw-in Bolt Nut	4015	Spindle Head Cap
1181	Draw-in Bolt Knob	4016	Spindle Head Dial
2086	Spindle Roller Bearing (State Whether With Keyway)	4017	Spindle Head Dial Nut
2087	Spindle Dust Guard	4018	Spindle Head Dial Nut Washer
2088	Spindle Ball Bearing	4019	Spindle Head Dial Sleeve
2092	Spindle Elevating Screw Bearing Washer	4020	Spindle Head Clamp Bolt
2093	Spindle Bearing (Upper) Clamp Washer	4021	Spindle Head Clamp Bolt Nut
2724	Spindle Nose Key	4022	Spindle Head Center Clamp Bolt
2725	Holding Screw	4023	Spindle Head Adjusting Slide
2726	Spindle Nut Spring	4024	Spindle Head Stop, Upper
2730	Spindle Gear Lockwasher	4025	Spindle Head Stop, Lower
2731	Spindle Gear Nut	4026	Spindle Head Plug
3191	Spindle Sleeve	4027	Spindle Clamp Lever
3192	Spindle Nut Lockwasher	4028	Spindle Clamp Stud
4000	Spindle Elevating Screw	4029	Spindle Clamp Lever Plate
4001	Spindle Elevating Screw Key	4030	Spindle Gear Washer
4002	Spindle Elevating Screw Sleeve	4031	Spindle Gear Thrust Washer
		4032	Index Finger



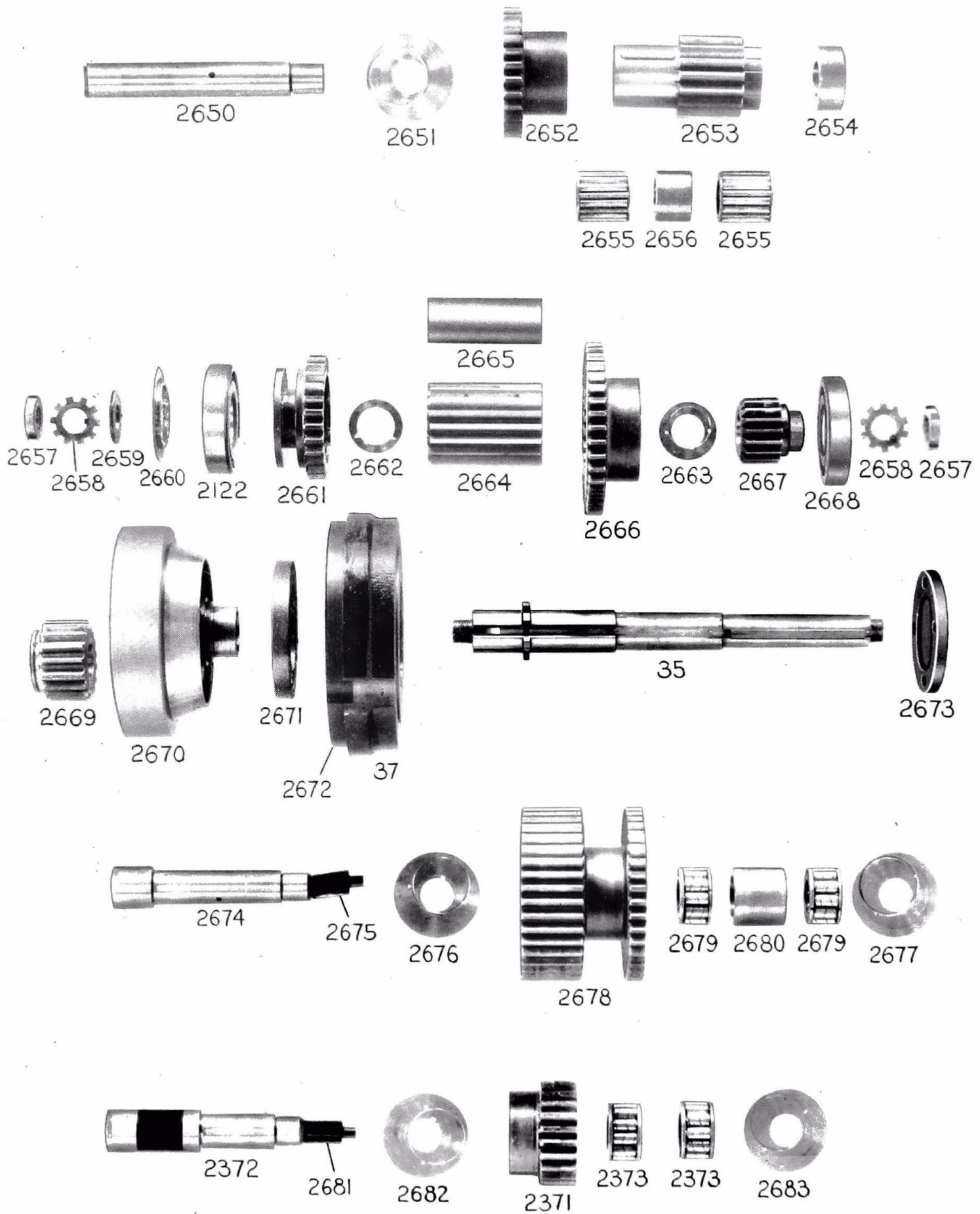
Spindle Drive and Spindle Head Lock
Vertical Machines

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Spindle Drive and Spindle Head Lock

Vertical Machines

4041	Spindle Driving Shaft
4042	Spindle Driving Shaft Bearing, Front
4043	Spindle Driving Shaft Bearing, Rear
4044	Driving Shaft Bearing Retainer, Front
4045	Driving Shaft Bearing Retainer, Rear
4046	Driving Shaft Bearing Screw
4047	Spindle Driving Shaft Bearing Cap
4048	Spindle Driving Shaft Nut, Front
4049	Spindle Driving Shaft Nut Lock
4050	Spindle Driving Shaft Nut, Rear
4051	Spindle Driving Shaft Lockwasher
4052	Spindle Driving Gear
4053	Spindle Driving Gear Roller Bearing (State Whether With Keyway)
4054	Spindle Gear Nut
4055	Driving Shaft Gear Thrust Washer
4056	Spindle Driving Shaft Sleeve
4057	Power Feed Shaft Guard Collar
4058	Feed Intermediate Gear
4059	Feed Intermediate Gear Shaft
4060	Feed Intermediate Gear Shaft Bearing
4061	Feed Intermediate Gear Bearing Retainer
4062	Feed Intermediate Gear Shaft Cover
4063	Knee Stop
4064	Spindle Head Locking Seat
4065	Locking Plunger
4066	Locking Plunger Eccentric
4067	Locking Plunger Eccentric Handle
4068	Locking Plunger Shaft Screw
4069	Locking Plunger Spring
4070	Locking Plunger Bracket
4071	Bracket Hole Plug

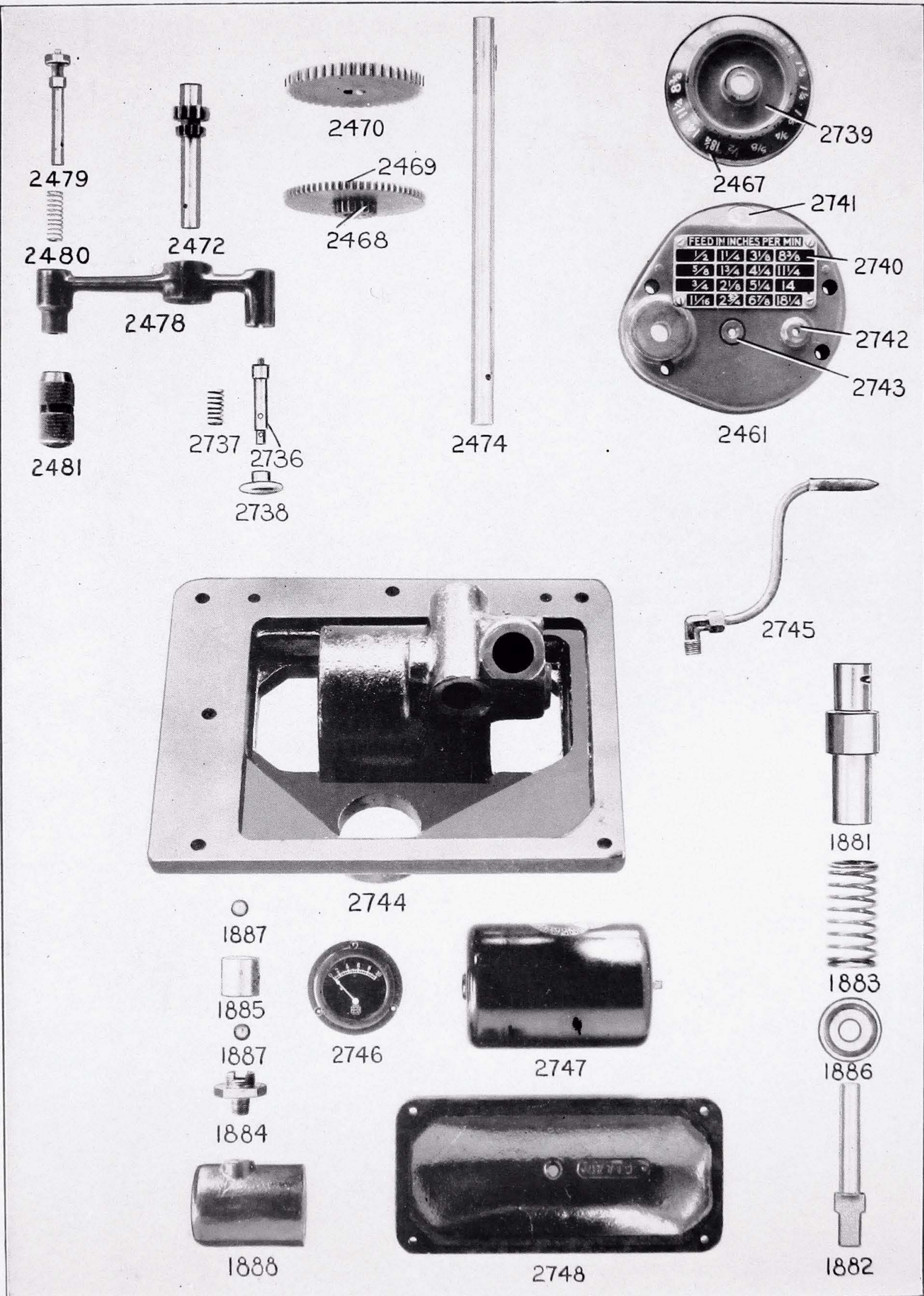


Main Driving Shaft

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Main Driving Shaft

35	Driving Shaft
37	Driving Shaft Bearing
2122	Driving Shaft Roller Bearing
2371	Intermediate Gear
2372	Intermediate Gear Shaft
2373	Intermediate Gear Roller Bearing
2650	Speed Transposing Gear Shaft
2651	Speed Transposing Gear Washer
2652	Speed Transposing Gear, Large
2653	Speed Transposing Gear, Small
2654	Transposing Gear Thrust Collar
2655	Transposing Gear Roller Bearing
2656	Transposing Gear Bearing Spacer
2657	Driving Shaft Nut
2658	Driving Shaft Nut Lock Washer
2659	Driving Shaft Washer
2660	Driving Shaft Internal Gear Guard
2661	Driving Shaft Sliding Gear
2662	Gear Sleeve Thrust Washer, Rear
2663	Gear Sleeve Thrust Washer, Front
2664	Driving Shaft Gear Sleeve
2665	Gear Sleeve Bushing
2666	Driving Shaft Gear
2667	Driving Shaft Feed Pinion
2668	Feed Pinion Roller Bearing
2669	Motor Pinion
2670	Driving Shaft Internal Gear
2671	Driving Shaft Bearing Dust Guard
2672	Driving Shaft Brake
2673	Stand Plug, Lower
2674	Quill Gear Shaft
2675	Quill Gear Shaft Oil Tube
2676	Quill Gear Washer, Rear
2677	Quill Gear Washer, Front
2678	Quill Gear
2679	Quill Gear Roller Bearing
2680	Quill Gear Shaft Collar
2681	Intermediate Gear Shaft Oil Tube
2682	Intermediate Gear Washer, Rear
2683	Intermediate Gear Washer, Front

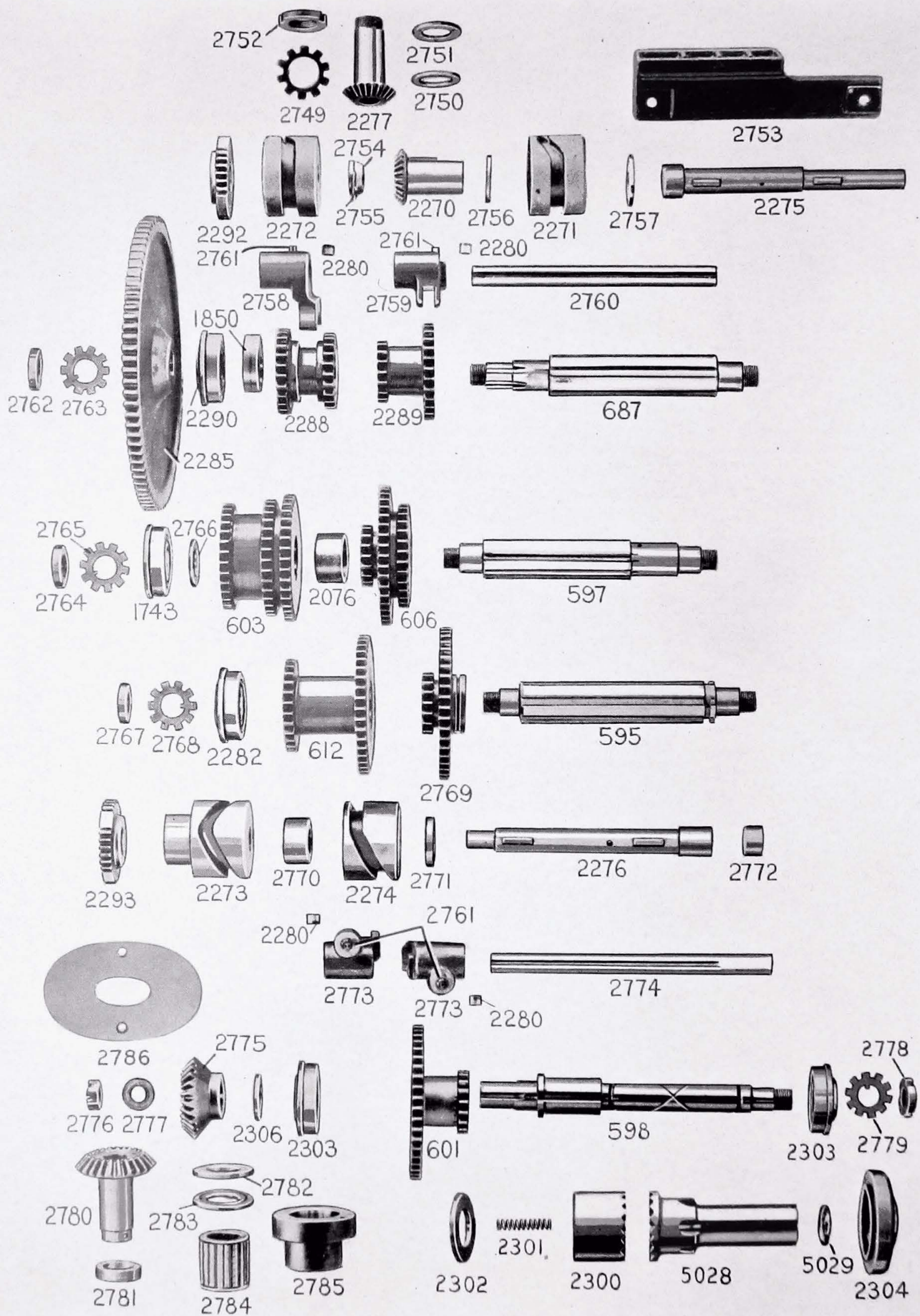


Lubricating Pump and Feed Change

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Lubricating Pump and Feed Change

1881	Lubricating Pump Bracket Extension
1882	Lubricating Pump Ram
1883	Lubricating Pump Ram Spring
1884	Lubricating Pump Valve Gland
1885	Lubricating Pump Valve Seat
1886	Lubricating Pump Ram Spring Seat
1887	Lubricating Pump Steel Ball
1888	Air Chamber
2461	Feed Control Case Cover
2467	Feed Change Dial
2468	Feed Change Dial Pinion
2469	Feed Change Dial Operating Gear
2470	Feed Change Operating Gear, Driven
2472	Feed Change Operating Pinion
2474	Feed Change Drive Shaft
2478	Feed Change Lever
2479	Feed Change Lever Plunger, Large
2480	Feed Change Lever Plunger (Large) Spring
2481	Feed Change Lever Plunger (Large) Knob
2736	Feed Change Lever Plunger, Small
2737	Feed Change Lever Plunger (Small) Spring
2738	Feed Change Lever Plunger (Small) Knob
2739	Feed Change Dial Back
2740	Feed Plate
2741	Glass Disc
2742	Plunger (Large) Stop Bushing
2743	Plunger (Small) Stop Bushing
2744	Lubricating Pump Bracket
2745	Oil Strainer
2746	Pressure Gage
2747	Oil Filter
2748	Lubricating Pump Bracket Cap

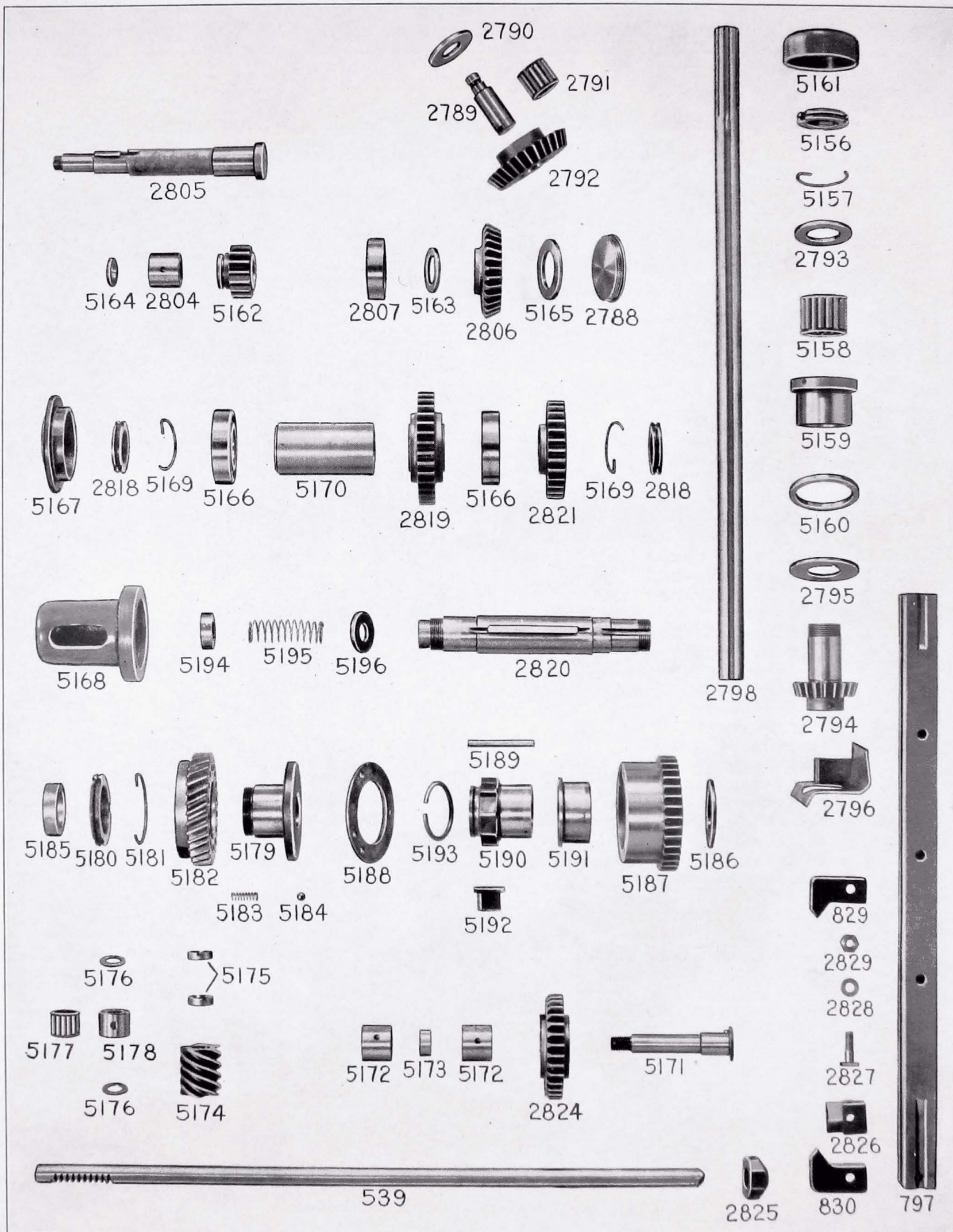


Feed Case

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Feed Case

595	Feed Sliding Gear Shaft	2752	Feed Case Pinion Nut
597	Feed Change Gear Shaft	2753	Feed Case Bearing Oiler
598	Quill Gear Shaft	2754	Feed Cam (Nos. 1 & 2) Spacer
601	Quill Sliding Gear	2755	Feed Cam Spacer Locking Spring
603	Feed Change Gear, Large	2756	Feed Case Cam Pinion Washer
606	Feed Change Gear, Small	2757	Feed Case Cam (No. 1) Washer
612	Feed Sliding Gear	2758	Feed Cam Shoe (No. 2)
687	Feed Driving Shaft	2759	Feed Cam Shoe (No. 1)
1739	Change Gear Shaft Spacer Collar	2760	Feed Cam Shoe Shaft (Nos. 1 & 2)
1743	Change Gear Shaft Roller Bearing	2761	Feed Cam Shoe Stud
1850	Pump Cam	2762	Feed Driving Shaft Nut
2076	Feed Change Gear Shaft Collar	2763	Feed Driving Shaft Lock Washer
2270	Feed Case Cam Pinion	2764	Feed Change Gear Shaft Nut
2271	Feed Case Cam (No. 1)	2765	Change Gear Shaft Lock Washer
2272	Feed Case Cam (No. 2)	2766	Feed Change Gear Spacing Collar
2273	Feed Case Cam (No. 3)	2767	Sliding Gear Shaft Nut
2274	Feed Case Cam (No. 4)	2768	Sliding Gear Shaft Lock Washer
2275	Feed Cam Shaft (Nos. 1 & 2)	2769	Feed Gear
2276	Feed Cam Shaft (Nos. 3 & 4)	2770	Feed Cam (Nos. 3 & 4) Spacer
2277	Feed Case Pinion	2771	Feed Case Cam (No. 4) Washer
2280	Feed Cam Roll	2772	Shaft Hole Plug (Nos. 3 & 4)
2282	Sliding Gear Shaft Roller Bearing	2773	Feed Cam Shoe (Nos. 3 & 4)
2285	Feed Driving Shaft Gear	2774	Feed Cam Shoe Shaft (Nos. 3 & 4)
2288	Feed Driving Shaft Sliding Gear, Small	2775	Quill Gear Shaft Bevel Gear
2289	Feed Driving Shaft Sliding Gear, Large	2776	Quill Gear Shaft Nut, Left
2290	Feed Driving Shaft Roller Bearing	2777	Quill Gear Shaft Washer, Outer
2292	Feed Intermittent Gear, Driver	2778	Quill Gear Shaft Nut, Right
2293	Feed Intermittent Gear, Driven	2779	Quill Gear Shaft Lock Washer
2300	Quill Gear Clutch Sleeve	2780	Feed Worm Shaft Bevel Gear
2301	Quill Gear Clutch Spring	2781	Worm Shaft Bevel Gear Collar
2302	Safety Clutch Spring Stop Washer	2782	Worm Shaft Bevel Gear Washer, Bronze
2303	Quill Gear Shaft Roller Bearing	2783	Worm Shaft Bevel Gear Washer, Steel
2304	Quill Gear Shaft Bearing Cap	2784	Bevel Gear Roller Bearing
2306	Quill Gear Shaft Washer, Inner	2785	Worm Shaft Bevel Gear Bushing
2749	Feed Case Pinion Lock Washer	2786	Worm Shaft Bevel Gear Cover
2750	Feed Case Pinion Washer, Front	5028	Quill Gear Shaft Sleeve
2751	Feed Case Pinion Washer, Rear	5029	Quill Gear Shaft Washer

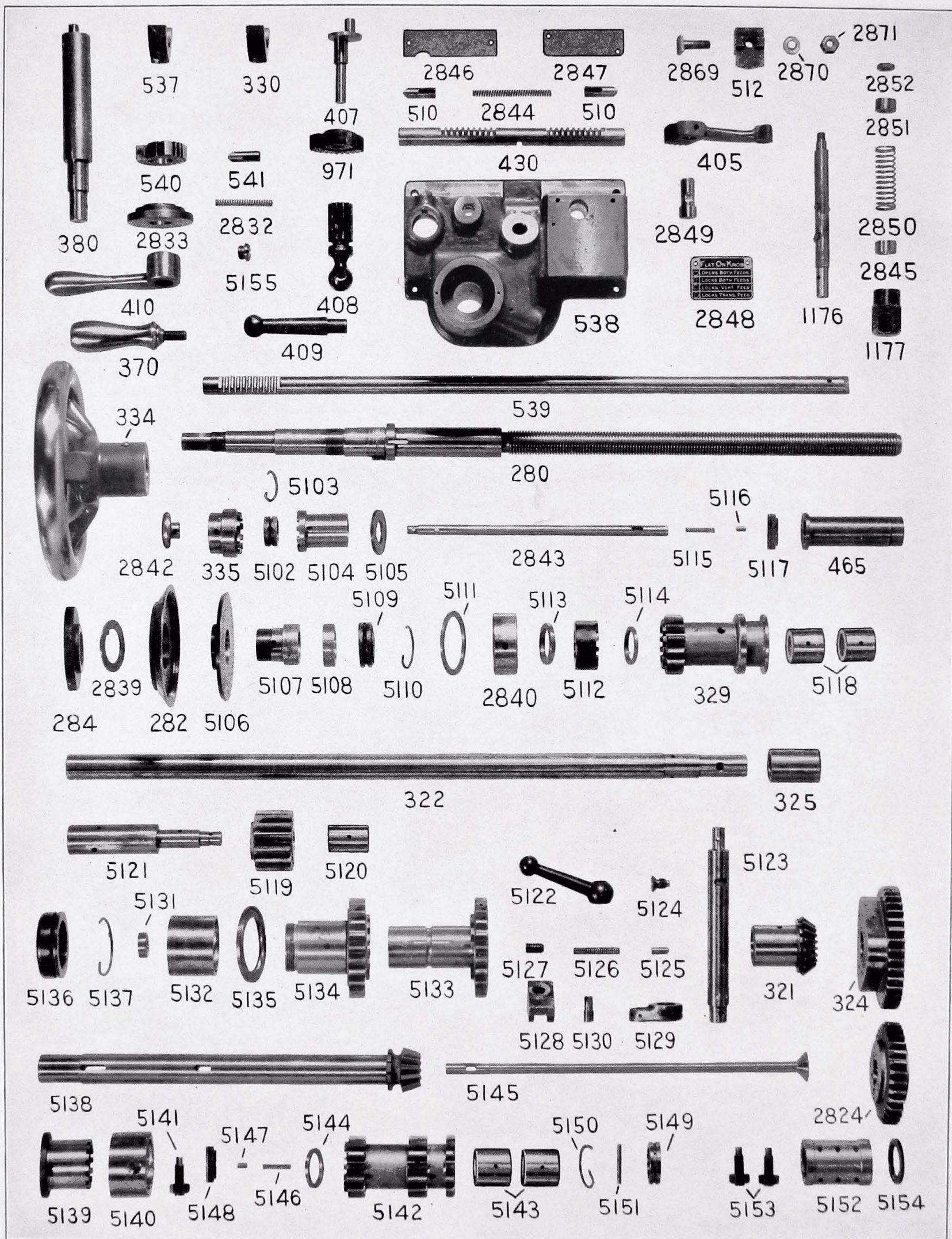


Feed Reverse and Power Fast Travel

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Feed Reverse and Power Fast Travel

539	Vertical Feed Trip Rod	5163	Feed Reverse Shaft Bevel Gear Washer
797	Vertical Feed Trip Dog Bracket	5164	Feed Reverse Shaft Washer, Front
829	Vertical Feed Safety Stop, Upper	5165	Feed Reverse Shaft Washer, Rear
830	Vertical Feed Safety Stop, Lower	5166	Feed Driving Gear Sleeve Bearing
2788	Feed Reverse Case Plug	5167	Driving Gear Sleeve Bearing Retainer
2789	Idler Bevel Gear Stud	5168	Driving Gear Sleeve Bearing Cap
2790	Idler Bevel Gear Washer	5169	Driving Gear Sleeve Nut Lockwire
2791	Idler Bevel Gear Bearing	5170	Feed Driven Gear Spacing Collar
2792	Idler Bevel Gear	5171	Feed Intermediate Gear Stud
2793	Power Feed Shaft Bearing Washer	5172	Feed Intermediate Gear Bearing
2794	Power Feed Shaft Pinion	5173	Feed Intermediate Gear Bearing Spacer
2795	Power Feed Shaft Pinion Washer	5174	Fast Travel Motor Pinion
2796	Power Feed Shaft Pinion Guard	5175	Fast Travel Motor Shaft Nut
2798	Power Feed Shaft	5176	Fast Travel Motor Shaft Washer
2804	Feed Reverse Shaft Bearing, Front	5177	Fast Travel Motor Shaft Bearing
2805	Feed Reverse Shaft	5178	Fast Travel Motor Shaft Bearing Race
2806	Feed Reverse Shaft Bevel Gear	5179	Safety Clutch
2807	Feed Reverse Shaft Bearing, Rear	5180	Safety Clutch Nut
2818	Feed Driving Gear Sleeve Nut	5181	Safety Clutch Lockwire
2819	Feed Driven Gear	5182	Safety Clutch Gear
2820	Feed Driving Gear Sleeve	5183	Safety Clutch Spring
2821	Feed Driving Gear	5184	Safety Clutch Ball
2824	Feed Intermediate Gear	5185	Driving Gear Bearing Spacer, Front
2825	Vertical Feed Trip Rod Collar	5186	Driving Gear Bearing Spacer, Rear
2826	Vertical Feed Trip Dog	5187	Feed Driving Ratchet Gear
2827	Vertical Feed Trip Dog Bolt	5188	Feed Driving Ratchet Gear Plate
2828	Vertical Feed Trip Dog Washer	5189	Feed Driving Ratchet Gear Rivet
2829	Vertical Feed Trip Dog Nut	5190	Feed Driving Ratchet
5156	Power Feed Shaft Pinion Nut	5191	Feed Driving Ratchet Bushing
5157	Power Feed Shaft Pinion Nut Lockwire	5192	Feed Driving Ratchet Pawl
5158	Power Feed Shaft Bearing	5193	Feed Driving Ratchet Spring
5159	Power Feed Shaft Bearing Race	5194	Vertical Feed Trip Rod Collar
5160	Power Feed Shaft Bearing Race Collar	5195	Vertical Feed Trip Rod Spring
5161	Power Feed Shaft Cap	5196	Vertical Feed Trip Rod Washer
5162	Feed Reverse Shaft Gear		

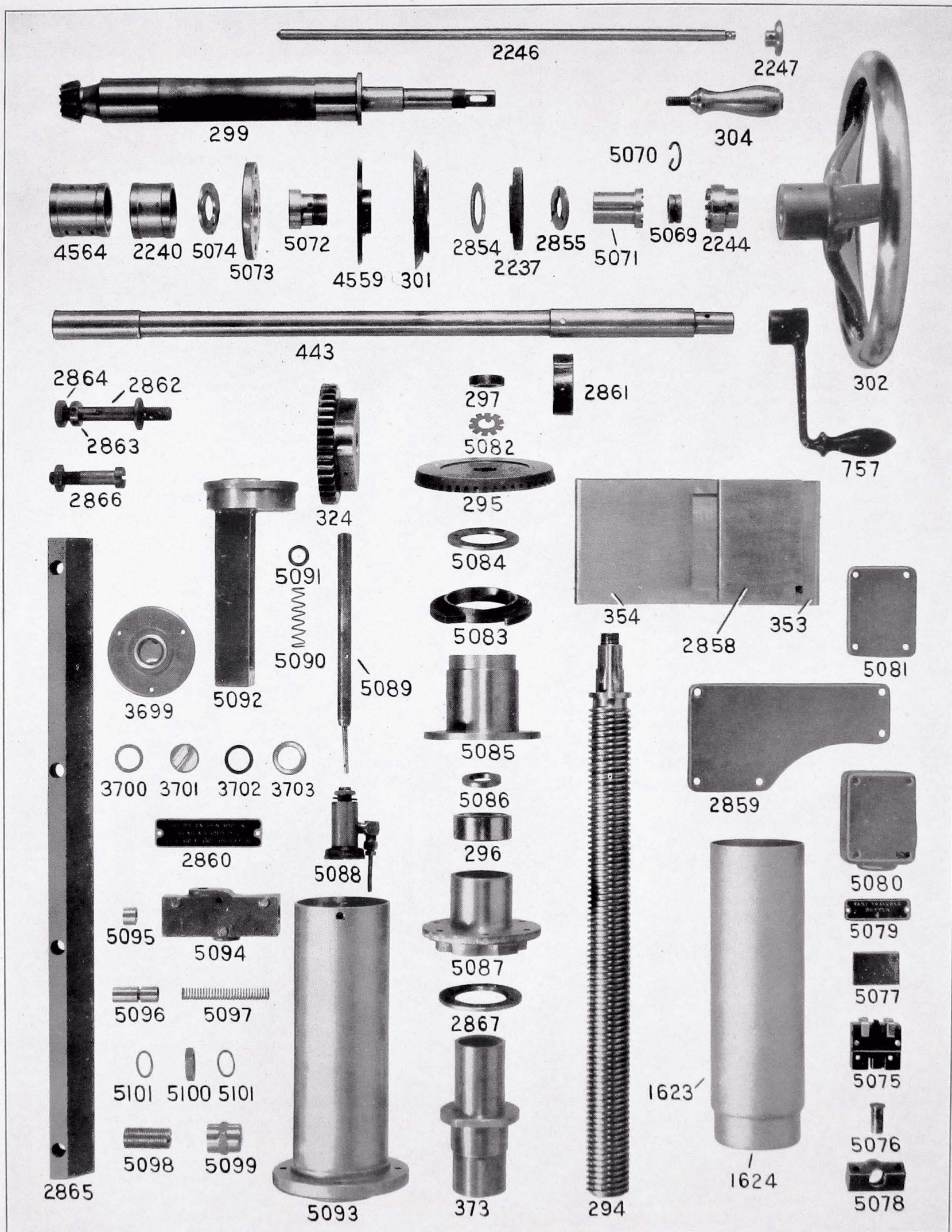


Feed Trip Bracket, Knee Power Shafts, Cross Feed Screw

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Feed Trip Bracket, Knee Power Shafts, Cross Feed Screw

280	Cross Feed Screw	5105	Cross Feed Handwheel Washer
282	Cross Feed Screw Dial	5106	Cross Feed Screw Dial Back
284	Cross Feed Screw Dial Nut	5107	Cross Feed Screw Dial Sleeve
321	Feed Shaft Pinion	5108	Cross Feed Screw Dial Spacer
322	Feed Shaft	5109	Cross Feed Screw Bearing Nut
324	Feed Shaft and Pump Driving Gear	5110	Cross Feed Screw Bearing Nut Lockwire
325	Feed Shaft Bushing, Rear	5111	Cross Feed Screw Bearing Washer
329	Cross Feed Clutch Gear	5112	Cross Feed Clutch
330	Cross Feed Clutch Shoe	5113	Cross Feed Clutch Washer
334	Cross Feed Handwheel	5114	Cross Feed Clutch Spacer
335	Cross Feed Handwheel Clutch	5115	Cross Feed Clutch Pin Spring
370	Cross Feed Handwheel Handle	5116	Cross Feed Clutch Pin Detent
380	Vertical Feed Clutch Eccentric Shaft	5117	Cross Feed Clutch Pin Stop
405	Cross Feed Trip Lever	5118	Cross Feed Clutch Gear Bushing
407	Cross Feed Clutch Eccentric Shaft	5119	Feed Reverse Gear
408	Cross Feed Trip Pinion	5120	Feed Reverse Gear Bushing
409	Cross Feed Trip Pinion Handle	5121	Feed Reverse Gear Shaft
410	Vertical Feed Clutch Lever	5122	Feed Reverse Lever
430	Cross Feed Trip Rod	5123	Feed Reverse Lever Stud
465	Cross Feed Screw Nut	5124	Feed Reverse Lever Stud Screw
510	Cross Feed Trip Plunger	5125	Reverse Lever Stud Detent
512	Cross Feed Trip Dog	5126	Reverse Lever Stud Detent Spring
537	Vertical Feed Clutch Shoe	5127	Reverse Lever Stud Detent Spring Stop
538	Cross & Vertical Feed Trip Bracket	5128	Feed Reverse Shoe
539	Vertical Feed Trip Rod	5129	Feed Reverse Shoe Lever
540	Vertical Feed Trip Segment	5130	Feed Reverse Shoe Lever Pin
541	Vertical Feed Trip Plunger	5131	Feed Shaft Spacer
971	Cross Feed Trip Segment	5132	Feed Shaft Bushing, Front
1176	Feed Locking Shaft	5133	Feed Shaft Driving Gear
1177	Feed Locking Shaft Knob	5134	Feed Shaft Gear, Front
2824	Feed Intermediate Gear	5135	Feed Shaft Gear (Front) Washer
2832	Vertical Feed Trip Plunger Spring	5136	Feed Shaft Gear (Front) Nut
2833	Feed Trip Bracket Cap	5137	Feed Shaft Gear (Front) Lockwire
2839	Cross Feed Screw Dial Washer	5138	Power Knee Shaft
2840	Cross Feed Screw Bearing	5139	Power Knee Shaft Clutch
2842	Cross Feed Clutch Pin Knob	5140	Power Knee Shaft Clutch Bushing
2843	Cross Feed Clutch Pin	5141	Power Shaft Clutch Bushing Screw
2844	Cross Feed Trip Plunger Spring	5142	Power Knee Shaft Clutch Gear
2845	Feed Locking Shaft Bushing	5143	Power Shaft Clutch Gear Bushing
2846	Feed Trip Bracket Cover, Front	5144	Power Knee Shaft Clutch Spacer
2847	Feed Trip Bracket Cover, Rear	5145	Power Knee Shaft Clutch Pin
2848	Feed Locking Notice Plate	5146	Power Shaft Clutch Pin Spring
2849	Cross Feed Trip Lever Stud	5147	Power Shaft Clutch Pin Detent
2850	Feed Locking Shaft Spring	5148	Power Shaft Clutch Pin Stop
2851	Feed Locking Shaft Collar	5149	Power Knee Shaft Clutch Collar
2852	Feed Locking Shaft Nut	5150	Power Shaft Clutch Collar Lockwire
2869	Cross Feed Trip Dog Bolt	5151	Power Shaft Clutch Collar Pin
2870	Cross Feed Trip Dog Washer	5152	Power Knee Shaft Bushing
2871	Cross Feed Trip Dog Nut	5153	Power Knee Shaft Bushing Screw
5102	Cross Feed Handwheel Nut	5154	Power Knee Shaft Washer
5103	Cross Feed Handwheel Nut Lockwire	5155	Feed Trip Plunger Spring Stop
5104	Cross Feed Handwheel Sleeve		



Knee Elevating Mechanism, Pumps, etc.

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Knee Elevating Mechanism, Pumps, etc.

294	Knee Screw	3703	Knee Oil Sight Gage Disk Holder
295	Knee Screw Gear	4559	Knee Elevating Shaft Dial Back
296	Knee Screw Bearing	4564	Knee Elevating Shaft Bushing, Rear
297	Knee Screw Gear Nut	5069	Knee Elevating Shaft Nut
299	Knee Elevating Shaft	5070	Knee Elevating Shaft Nut Lockwire
301	Knee Elevating Shaft Dial	5071	Knee Elevating Shaft Handwheel Sleeve
302	Knee Elevating Shaft Handwheel	5072	Knee Elevating Shaft Dial Sleeve
304	Knee Elevating Shaft Handwheel Handle	5073	Knee Elevating Shaft Spacer
324	Feed Shaft and Pump Driving Gear	5074	Knee Elevating Shaft Washer
353	Knee Dust Guard, Front	5075	Fast Travel Switch
354	Knee Dust Guard, Rear, Lower	5076	Fast Travel Switch Button
373	Knee Screw Nut	5077	Fast Travel Switch Spacer
443	Knee Clamp Shaft	5078	Fast Travel Switch Block Spacer
757	Knee Clamp Shaft Crank	5079	Fast Travel Switch Notice Plate
1623	Knee Screw Horn Sleeve, Outer	5080	Fast Travel Switch Cover
1624	Knee Screw Horn Sleeve, Inner	5081	Fast Travel Switch Opening Cover
2237	Knee Elevating Shaft Dial Nut	5082	Knee Screw Gear Nut Lockwasher
2240	Knee Elevating Shaft Bushing, Front	5083	Knee Power Feed Interlock
2244	Knee Elevating Shaft Clutch	5084	Knee Power Feed Interlock Cap
2246	Knee Elevating Shaft Clutch Pin	5085	Knee Screw Bearing Holder
2247	Knee Elevating Shaft Clutch Pin Knob	5086	Knee Screw Washer
2854	Knee Elevating Shaft Dial Washer	5087	Knee Screw Nut Sleeve
2855	Knee Elevating Shaft Handwheel Washer	5088	Knee Pump
2858	Knee Dust Guard, Rear, Upper	5089	Knee Pump Plunger
2859	Knee Opening Cover	5090	Knee Pump Plunger Spring
2860	Knee Oiling Notice Plate	5091	Knee Pump Plunger Washer
2861	Knee Clamp Shaft Collar	5092	Knee Pump Bracket, Upper
2862	Knee Clamp Stud	5093	Knee Pump Bracket, Lower
2863	Knee Clamp Stud Nut, Round	5094	Automatic Feed Valve Body
2864	Knee Clamp Stud Nut, Hexagonal	5095	Automatic Feed Valve Bushing
2865	Knee Gib	5096	Automatic Feed Valve Piston
2866	Knee Gib Bolt	5097	Automatic Feed Valve Spring
2867	Knee Screw Horn Sleeve Stop	5098	Automatic Feed Valve Adjustment Screw
3699	Knee Oil Sight Gage	5099	Feed Valve Adjustment Screw Cap
3700	Knee Oil Sight Gage Washer, Cork	5100	Feed Valve Adjustment Screw Nut
3701	Knee Oil Sight Gage Glass Disk	5101	Feed Valve Adjustment Screw Washer
3702	Knee Oil Sight Gage Washer, Fibre		

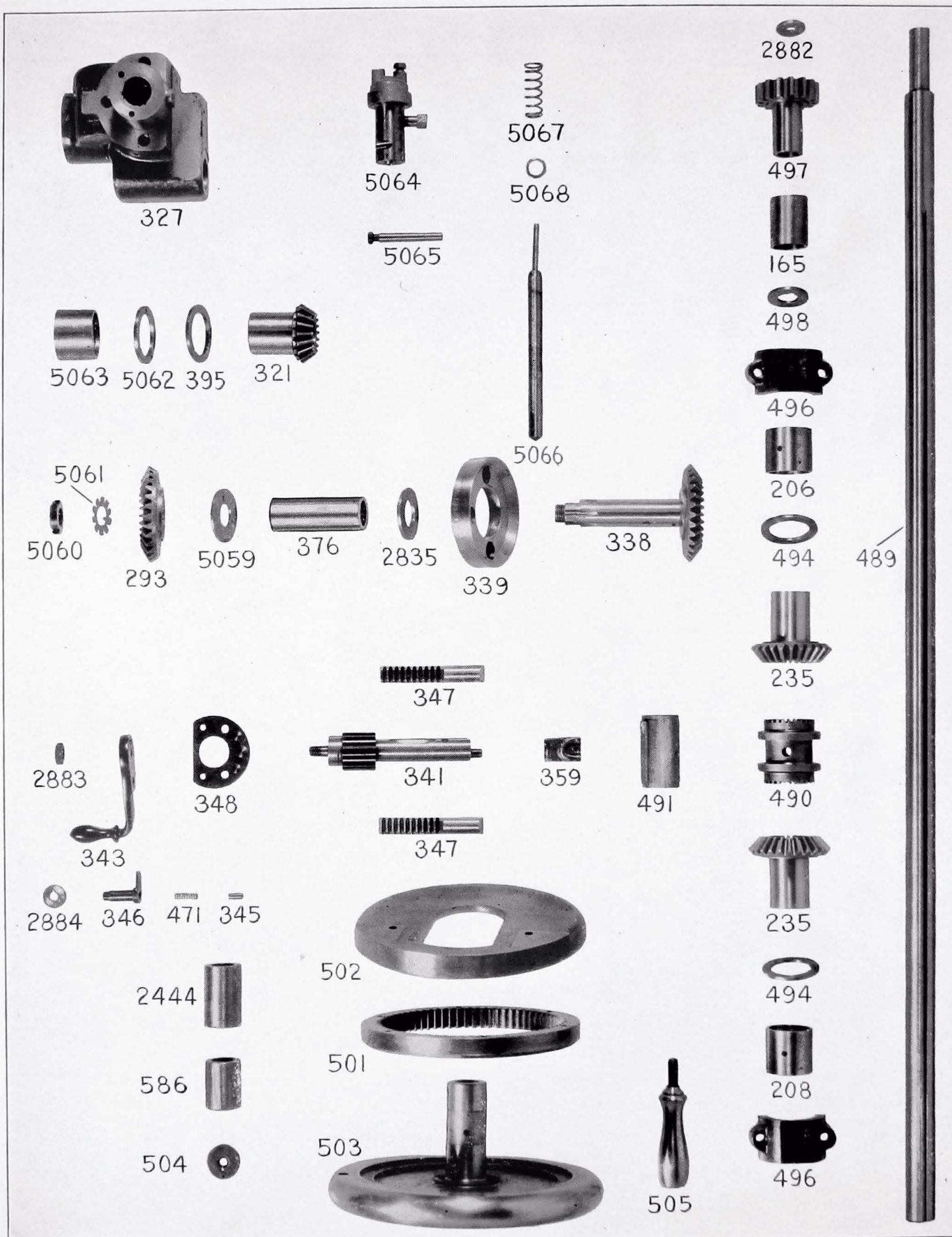


Table Feed Shaft

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Table Feed Shaft

165	Table Feed Shaft Gear Bushing
206	Table Feed Clutch Gear Bushing, Left
208	Table Feed Clutch Gear Bushing, Right
235	Table Feed Clutch Gear
293	Lower Swivel Gear
321	Feed Shaft Pinion
327	Cross Feed Screw Bracket
338	Vertical Shaft Gear
339	Cross Feed Screw Bracket Collar
341	Table Feed Trip Lever Shaft
343	Table Feed Trip Lever
345	Trip Lever Stop Pin
346	Table Feed Trip Lever Stop
347	Table Feed Trip Plunger
348	Table Feed Trip Lever Plate
359	Table Feed Clutch Shoe
376	Vertical Shaft Gear Bushing
395	Feed Shaft Pinion Washer, Steel
471	Trip Lever Stop Spring
489	Table Feed Shaft
490	Table Feed Clutch
491	Table Feed Clutch Sleeve
494	Table Feed Clutch Gear Washer
496	Feed Clutch Gear Bushing Cap
497	Table Feed Shaft Gear
498	Table Feed Shaft Gear Gear Washer
501	Table Quick Return Gear
502	Table Quick Return Gear Guard
503	Table Quick Return Gear Body
504	Quick Return Gear Body Washer
505	Quick Return Gear Body Handle
586	Table Feed Shaft Collar, Right
2444	Table Screw Bearing Bushing, Large
2835	Vertical Shaft Gear Washer, Upper
2882	Table Feed Shaft Washer, Left
2883	Trip Lever Shaft Nut
2884	Trip Lever Stop Nut
5059	Vertical Shaft Gear Washer, Lower
5060	Vertical Shaft Gear Nut
5061	Vertical Shaft Gear Lockwasher
5062	Feed Shaft Pinion Washer, Bronze
5063	Feed Shaft Pinion Bushing
5064	Saddle Pump
5065	Saddle Pump Locking Pin
5066	Saddle Pump Plunger
5067	Saddle Pump Plunger Spring
5068	Saddle Pump Plunger Washer

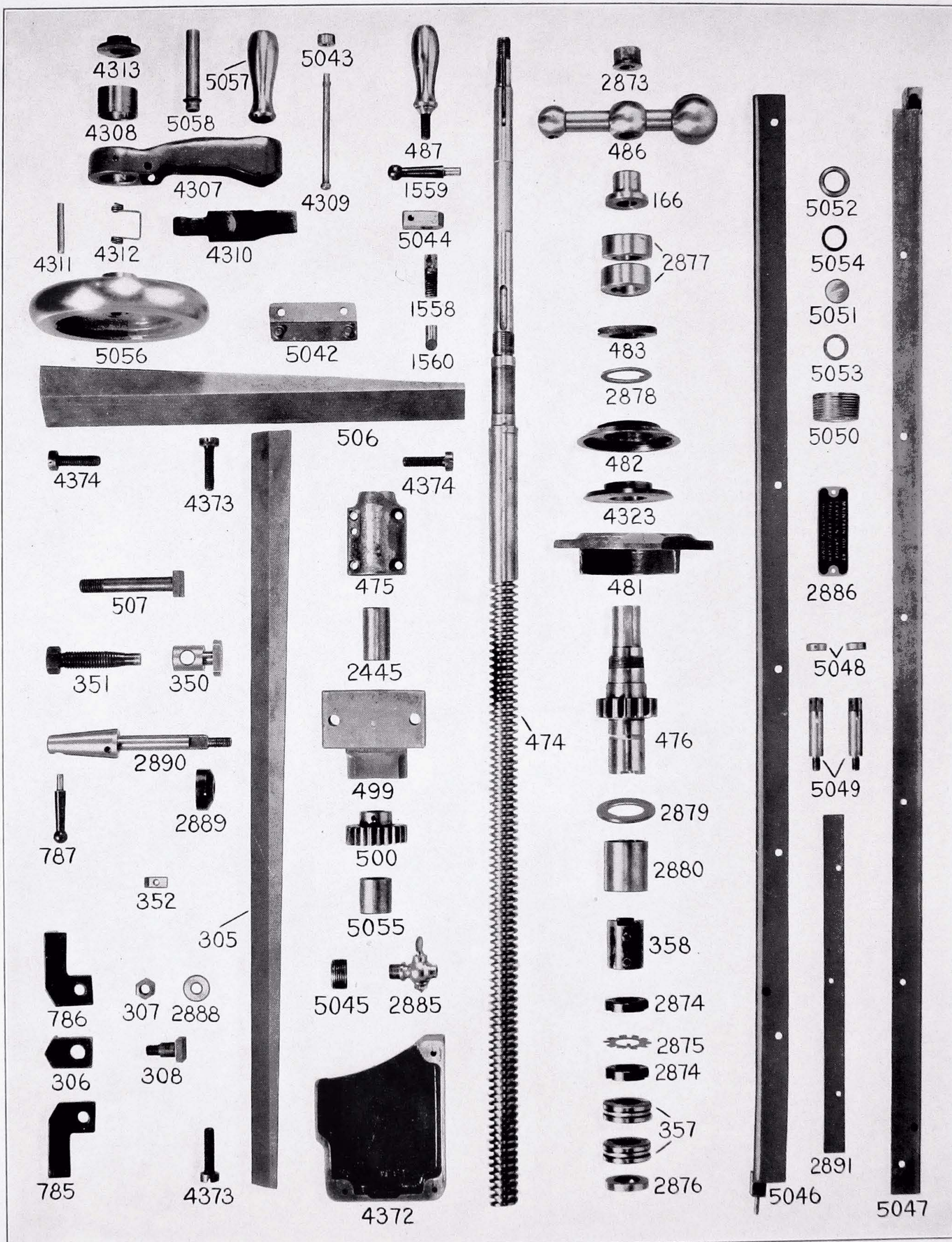
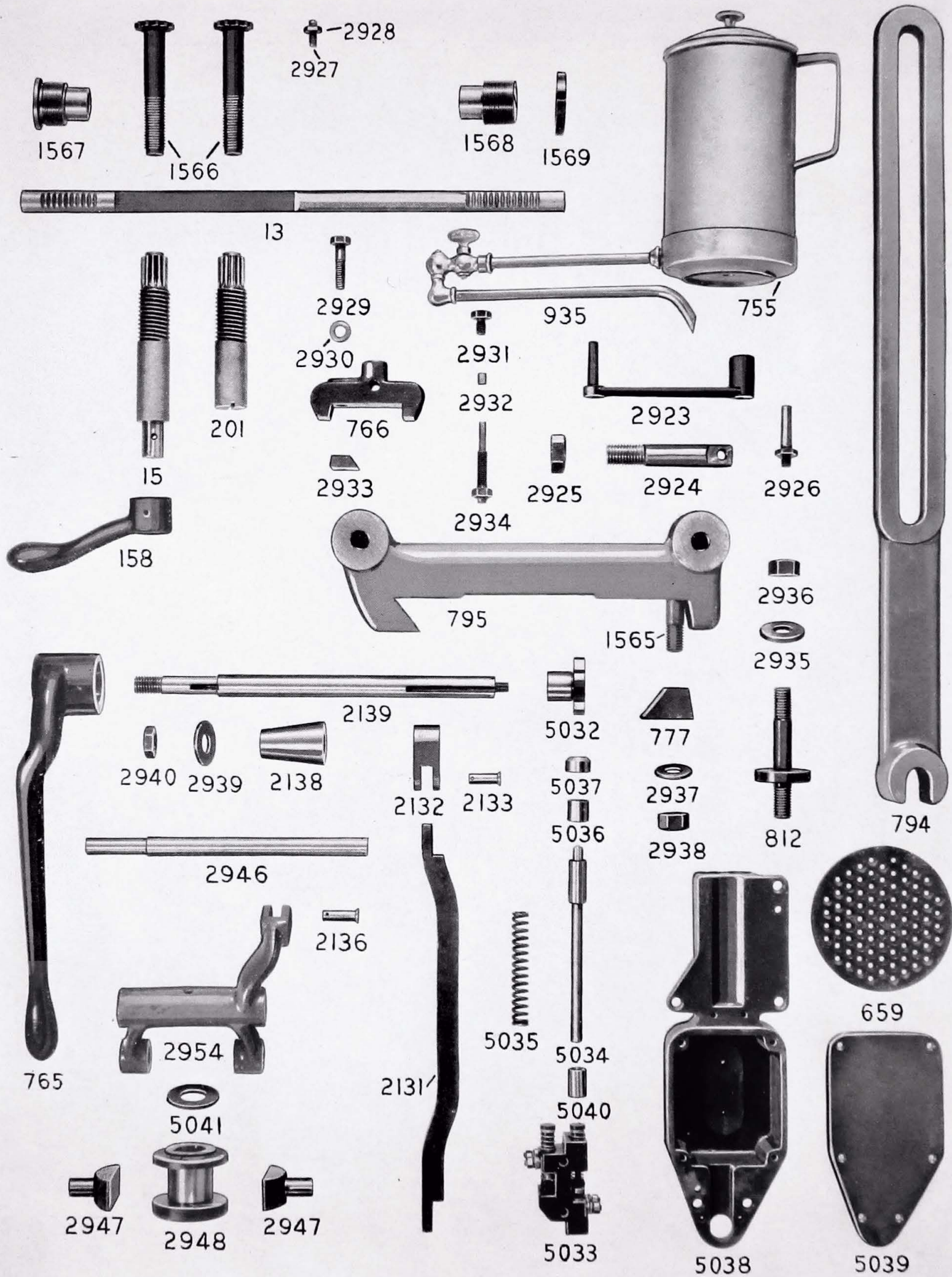


Table and Saddle

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Table and Saddle

166	Table Screw Collar, Left	2880	Table Screw Bearing, Left
305	Table Gib	2885	Table Oil Cock
306	Table Trip Dog	2886	Saddle Oiling Notice Plate
307	Trip Dog Clamp Bolt Nut	2888	Trip Dog Clamp Bolt Washer
308	Trip Dog Clamp Bolt	2889	Table Clamp Shaft Nut
350	Saddle Clamp Stud	2890	Table Clamp Shaft
351	Saddle Clamp Screw	2891	Saddle T-Slot Cover
352	Saddle Index Finger	4307	Table Handwheel Arm
357	Table Screw Thrust Bearing	4308	Table Handwheel Arm Bushing
358	Table Screw Gear Coupling	4309	Table Handwheel Plunger
474	Table Screw	4310	Table Handwheel Arm Trigger
475	Table Screw Nut	4311	Table Handwheel Arm Trigger Pin
476	Table Screw Gear	4312	Table Handwheel Arm Trigger Spring
481	Table Screw Dial Bracket	4313	Table Handwheel Clamp Nut
482	Table Screw Dial	4323	Table Screw Dial Back
483	Table Screw Dial Nut	4372	Saddle Cover
486	Table Screw Ball Crank	4373	Table Gib Screw
487	Table Screw Ball Crank Handle	4374	Saddle or Clamp Bed Gib Screw
499	Table Screw Bearing, Right	5042	Saddle or Clamp Bed Gib Plate
500	Table Quick Return Pinion	5043	Table Handwheel Handle Bushing
506	Saddle or Clamp Bed Gib	5044	Saddle or Clamp Bed Gib Screw Head
507	Saddle Clamp Bolt	5045	Table Drain Plug
785	Table Feed Safety Stop, Right	5046	Table Oil Trough, Front
786	Table Feed Safety Stop, Left	5047	Table Oil Trough, Rear
787	Table Clamp Shaft Handle	5048	Table Oil Trough Pipe Retainer
1558	Saddle or Clamp Bed Gib Screw	5049	Table Oil Trough Pipe Support
1559	Saddle or Clamp Bed Gib Screw Handle	5050	Saddle Oil Sight Plug
1560	Saddle or Clamp Bed Gib Shoe	5051	Saddle Oil Sight Glass Disk
2445	Table Screw Bearing Bushing, Small	5052	Saddle Oil Sight Disk Retainer
2873	Table Screw Ball Crank Nut	5053	Saddle Oil Sight Washer, Cork
2874	Table Screw Thrust Bearing Nut	5054	Saddle Oil Sight Washer, Fibre
2875	Thrust Bearing Nut Lockwasher	5055	Table Screw Collar, Right
2876	Table Screw Spacing Collar	5056	Table Handwheel
2877	Table Screw Gear Collar	5057	Table Handwheel Handle
2878	Table Screw Dial Washer	5058	Table Handwheel Handle Stud
2879	Table Screw Gear Washer		

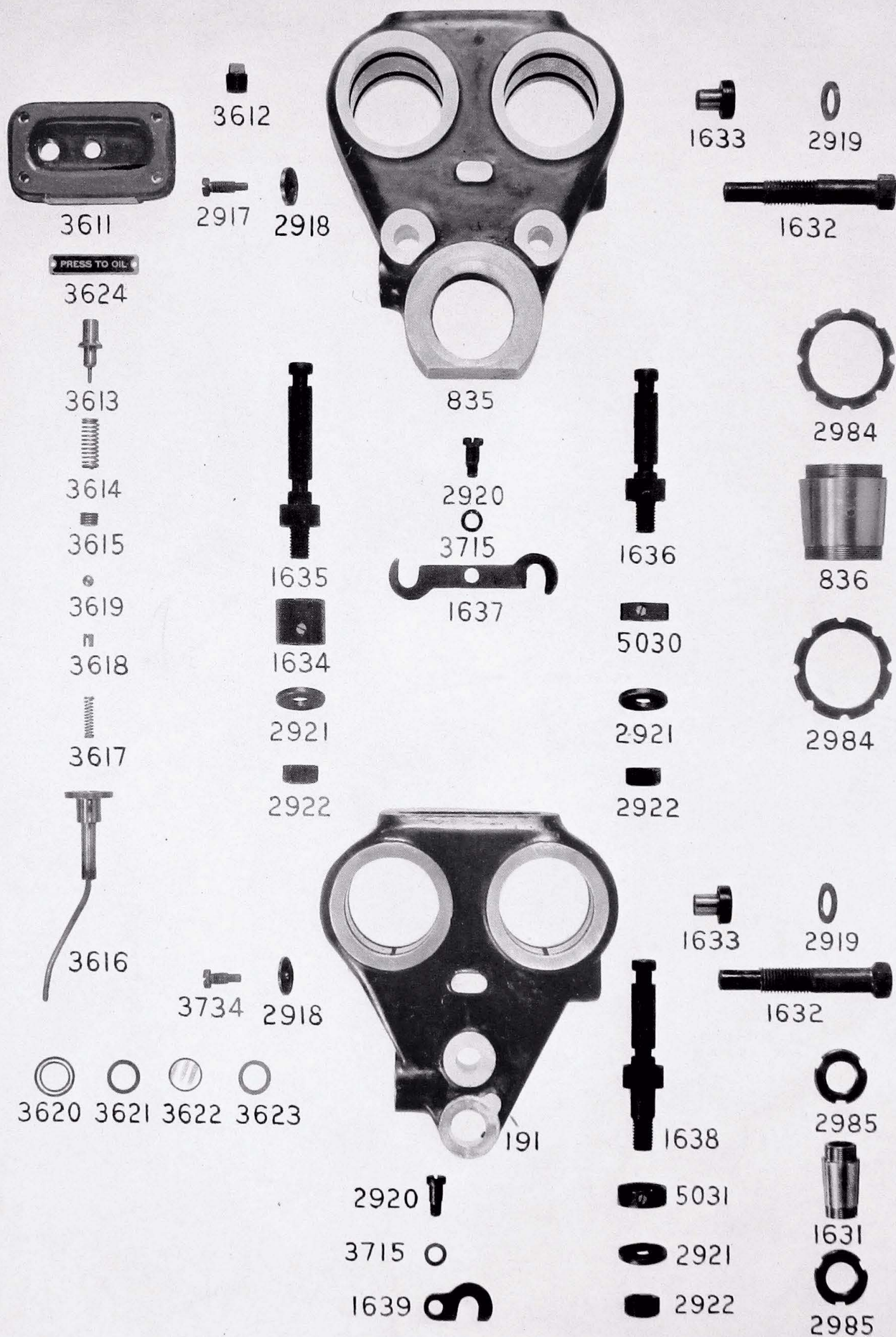


Miscellaneous

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Miscellaneous

13	Arm Clamp Rack	2927	Arm Clamp Locking Screw
15	Arm Clamp Screw, Front	2928	Arm Clamp Locking Screw Nut
158	Arm Clamp Lever	2929	Table Stop Gib Bolt
201	Arm Clamp Screw, Rear	2930	Table Stop Gib Bolt Washer
659	Stand Oil Tank Strainer	2931	Adjusting Screw Clamp Bolt
755	Coolant Drip Can	2932	Adjusting Screw Clamp Shoe
765	Starting Lever	2933	Table Stop Gib
766	Table Stop	2934	Table Stop Adjusting Screw
777	Arm Support Knee Clamp Gib	2935	Arm Support Stud Washer
794	Arm Support	2936	Arm Support Stud Nut
795	Arm Support Knee Clamp	2937	Clamp Gib Screw Washer
812	Arm Support Stud	2938	Clamp Gib Screw Nut
935	Coolant Drip Can Spout	2939	Starting Lever Shaft Washer
1565	Arm Support Clamp Gib Screw	2940	Starting Lever Shaft Nut
1566	Arm Clamp Adjusting Screw	2946	Brake Operating Yoke Shaft
1567	Arm Clamp Rack Front Bearing	2947	Brake Operating Yoke Shoe
1568	Arm Clamp Rack Rear Bearing	2948	Driving Shaft Sleeve
1569	Clamp Rack Rear Bearing Nut	2954	Brake Operating Yoke
2131	Brake Operating Lever Link	5032	Starting Lever Cam
2132	Brake Operating Link Lever	5033	Starting Switch
2133	Brake Operating Link Lever Pin	5034	Starting Switch Plunger
2136	Brake Operating Lever Link Pin	5035	Starting Switch Plunger Spring
2138	Starting Lever Bushing	5036	Starting Switch Plunger Oil Guard
2139	Starting Lever Shaft	5037	Starting Switch Plunger Oil Cap
2923	Coolant Drip Can Support	5038	Starting Switch Bracket
2924	Coolant Drip Can Support Stud	5039	Starting Switch Bracket Cover
2925	Coolant Drip Can Support Stud Nut	5040	Starting Switch Bracket Bushing
2926	Coolant Drip Can Pivot	5041	Driving Shaft Sleeve Spacer



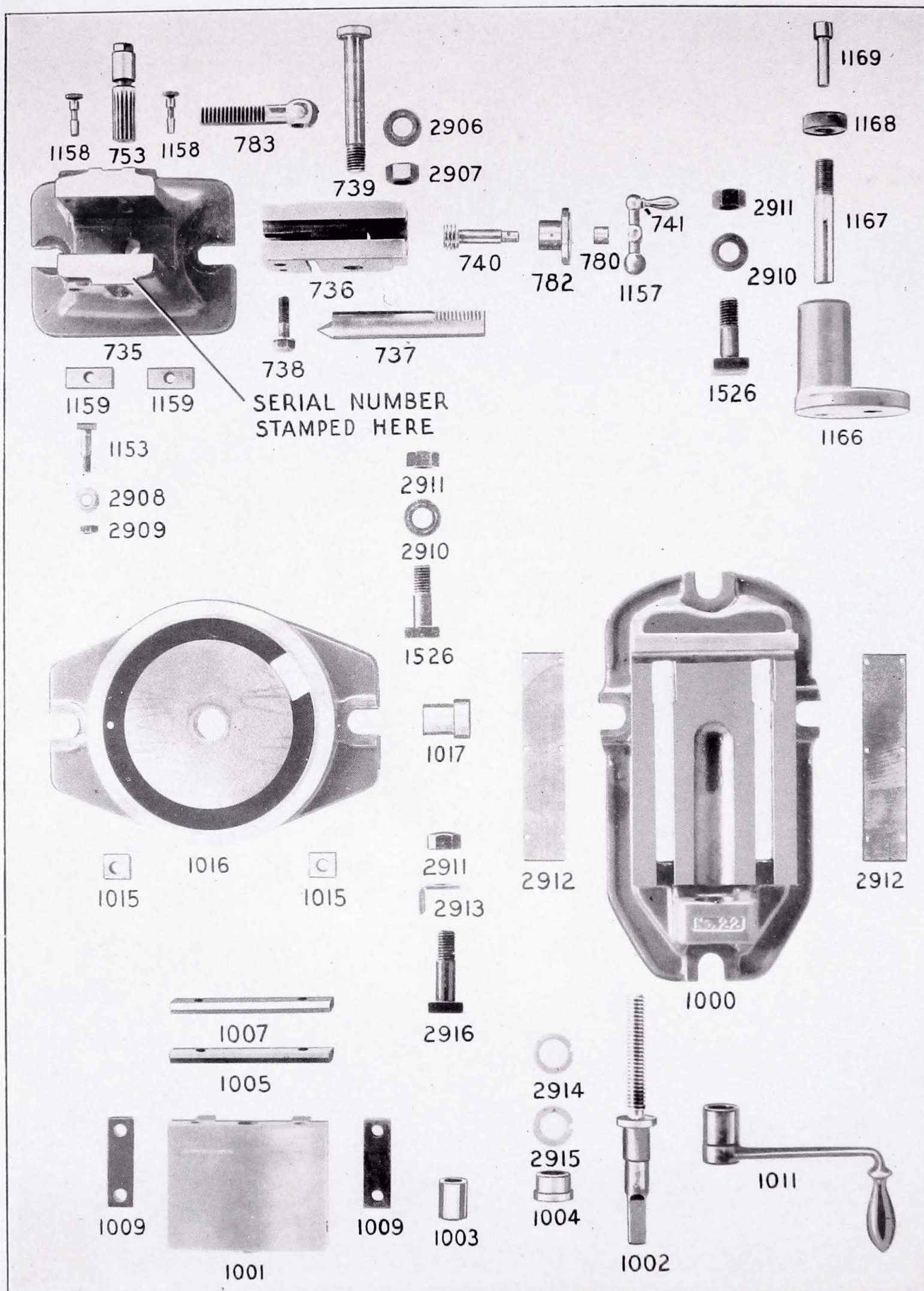
Arbor Yokes

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Arbor Yokes

* 191	Arbor Yoke, Outer
* 835	Arbor Yoke, Inner
836	Arbor Bushing, Inner
1631	Arbor Bushing, Outer
1632	Arbor Yoke Clamp Screw
1633	Arbor Yoke Clamp Stud
1634	Arm Support Spacer Collar, Long
1635	Arm Support Bolt, Long
1636	Arm Support Bolt, Short
1637	Arm Support Clamp Plate
1638	Arm Support Clamp Stud
1639	Arm Support Clamp Stud Plate
2917	Clamping Washer (Small) Screw, Long
2918	Yoke Clamping Washer, Small
2919	Yoke Clamping Washer, Large
2920	Arm Support Clamp Plate Screw
2921	Arm Support Bolt Washer
2922	Arm Support Bolt Nut
2984	Arbor Bushing (Inner) Nut
2985	Arbor Bushing (Outer) Nut
3611	Arbor Yoke Oil Well Cover
3612	Arbor Yoke Oil Well Cover Plug
3613	Arbor Yoke Oil Plunger
3614	Arbor Yoke Oil Plunger Spring
3615	Arbor Yoke Check Valve
3616	Arbor Yoke Check Valve Body
3617	Arbor Yoke Check Valve Spring
3618	Arbor Yoke Check Valve Plunger
3619	Arbor Yoke Check Valve Ball
3620	Arbor Yoke Glass Disk Holder
3621	Arbor Yoke Washer, Fibre
3622	Arbor Yoke Glass Disk
3623	Arbor Yoke Washer, Cork
3624	Arbor Yoke Oiling Instruction Plate
3715	Clamp Plate Screw Washer
3734	Clamping Washer (Small) Screw, Short
5030	Arm Support Spacer Collar, Short
5031	Arm Support Clamp Stud Collar

*Serial number of machine stamped on this part.

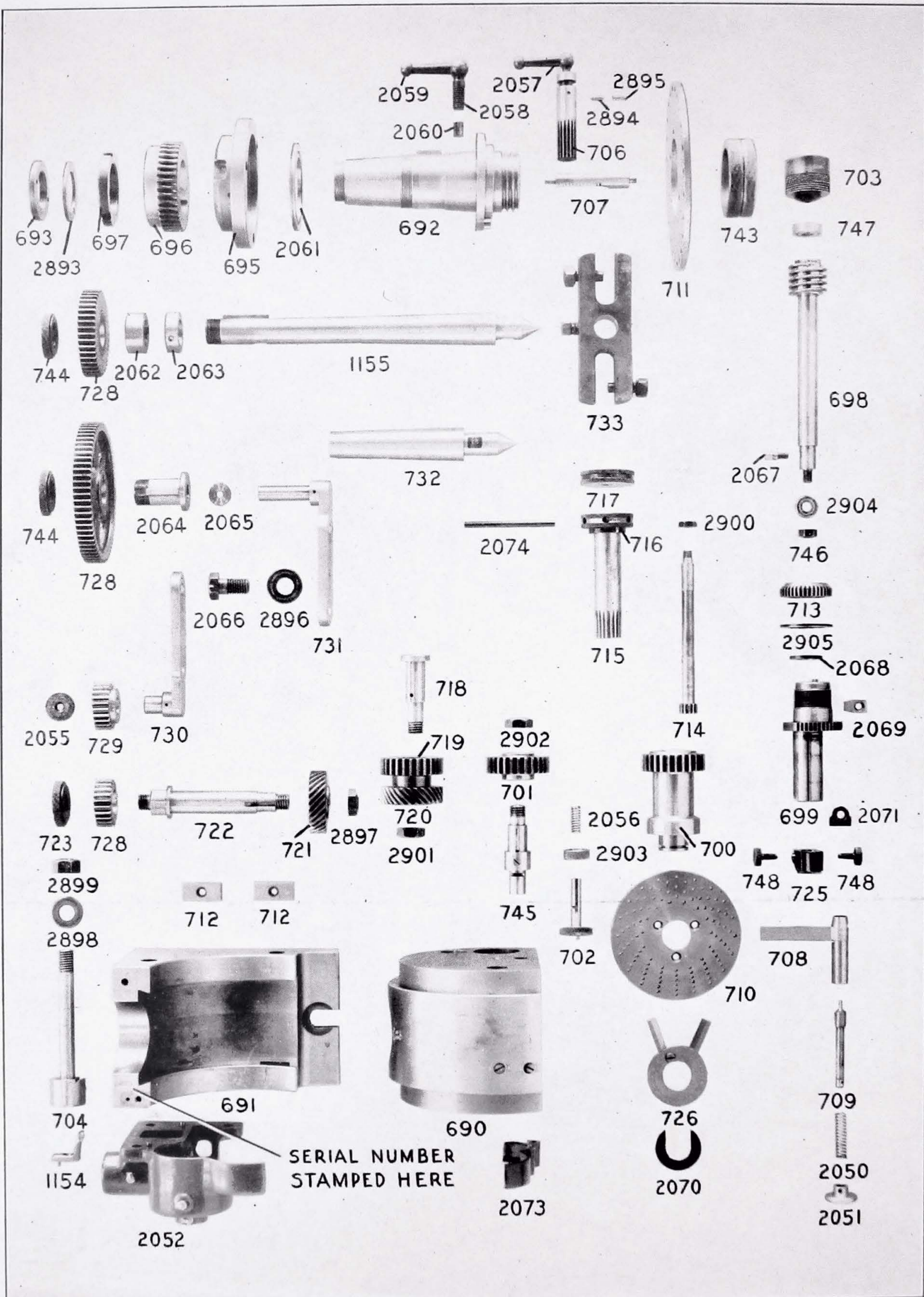


Footstock, Center Rest, Vises

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Footstock, Center Rest, Vises

735	Footstock Base	1017	Swivel Pin
736	Footstock Adjusting Block	1153	Footstock Adjusting Block Guide Bolt
737	Footstock Center	1157	Footstock Center Ball Crank
738	Footstock Center Clamp Bolt	1158	Footstock Taper Pin
739	Footstock Clamp Bolt	1159	Footstock Tongue
740	Footstock Center Adjusting Worm	1166	Center Rest Stand
741	Footstock Center Ball Crank Handle	1167	Center Rest Shell
780	Footstock Center Adjusting Worm Bushing	1168	Center Rest Shell Nut
782	Footstock Center Adjusting Worm Bearing	1169	Center Rest Piston
783	Footstock Rack Bolt	1526	Clamp Bolt
1000	Vise Bed	2906	Footstock Clamp Bolt Washer
1001	Vise Slide	2907	Footstock Clamp Bolt Nut
1002	Vise Screw	2908	Guide Bolt Washer
1003	Vise Screw Nut	2909	Guide Bolt Nut
1004	Vise Screw Collar	2910	Clamp Bolt Washer
1005	Vise Jaw, Loose	2911	Clamp Bolt Nut
1007	Vise Jaw, Fixed	2912	Bed Guard
1009	Vise Strap	2913	Swivel Base Washer
1011	Crank	2914	Vise Screw Thrust Washer, Small
1015	Swivel Base Tongue	2915	Vise Screw Thrust Washer, Large
1016	Swivel Base	2916	Swivel Base Clamp Bolt



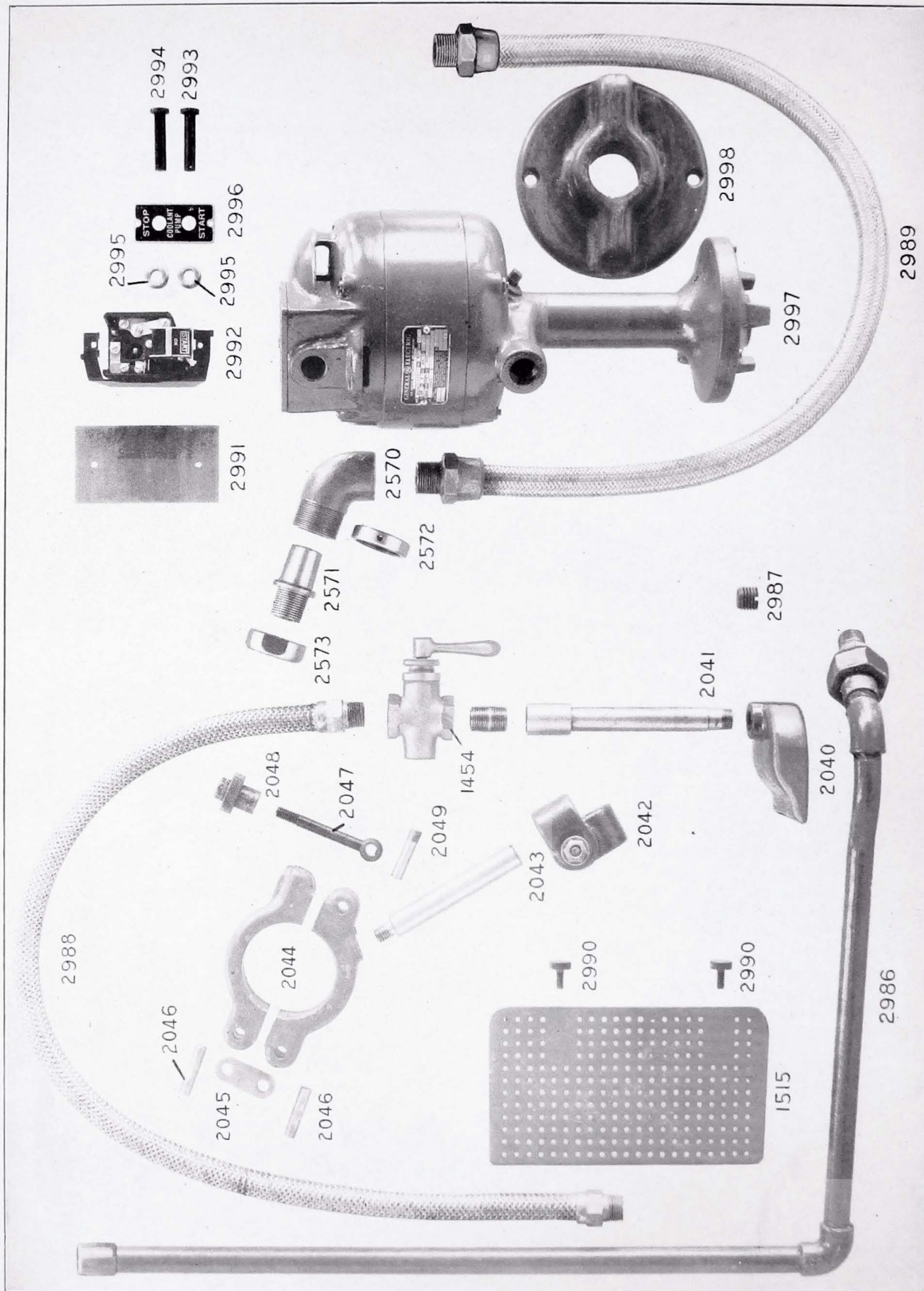
Headstock
Universal Spiral Index Centers

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Headstock

Universal Spiral Index Centers

690	Headstock Swivel	744	Intermediate Gear Nut
691	Headstock Base	745	Intermediate Gear Stud
692	Headstock Spindle	746	Worm Shaft Nut
693	Headstock Spindle Rear Nut	747	Worm Adjusting Screw Washer
695	Spindle Front Bushing	748	Index Crank Adjusting Screw
696	Index Wormwheel	1154	Headstock Index Finger
697	Index Wormwheel Nut	1155	Differential Indexing Center
698	Worm Shaft	2050	Index Crank Spring
699	Worm Shaft Bushing	2051	Index Crank Knob
700	Index Plate Sleeve	2052	Spiral Gear Bracket
701	Intermediate Gear	2055	Reverse Gear Washer
702	Index Stop Pin	2056	Index Stop Pin Spring
703	Worm Shaft Adjusting Screw	2057	Spindle Stop Pin Pinion Handle
704	Swivel Clamp Bolt (State Upper or Lower)	2058	Spindle Clamp Screw
706	Spindle Stop Pin Pinion	2059	Spindle Clamp Screw Handle
707	Spindle Stop Pin	2060	Spindle Clamp Screw Plug
708	Index Crank	2061	Spindle Front Washer
709	Index Crank Plunger Pin	2062	Indexing Center Collar
710	Index Plate, Small (State No. of Holes)	2063	Indexing Center Adjusting Collar
711	Index Plate, Large	2064	Intermediate Gear Bushing
712	Headstock Base Tongue	2065	Intermediate Gear Stud Washer
713	Worm Shaft Bushing Nut	2066	Intermediate & Reverse Gear Plate Screw
714	Worm Shaft Bushing Pinion	2067	Worm Shaft Stud
715	Worm Shaft Bushing Nut Pinion	2068	Worm Shaft Thrust Washer
716	Worm Shaft Bushing Nut Pinion Knob	2069	Worm Shaft Bushing Stop
717	Worm Shaft Bushing Pinion Knob	2070	Sector Spring
718	Intermediate & Spiral Gear Stud	2071	Index Crank Clamp
719	Intermediate Stud Gear	2073	Spur Gear Guard
720	Spiral Gear, Driven	2074	Wire Pin Wrench
721	Spiral Gear, Driver	2893	Headstock Spindle Rear Thrust Washer
722	Spiral Gear Shaft	2894	Stop Pin Pinion Lock Plunger
723	Spiral Gear Shaft Nut, Left	2895	Stop Pin Pinion Lock Spring
725	Index Crank Collar	2896	Gear Plate Screw Washer
726	Index Sector	2897	Spiral Gear Shaft Nut, Right
728	Headstock Change Gear (State No. of Teeth)	2898	Clamp Bolt Washer
729	Reverse Gear	2899	Clamp Bolt Nut
730	Reverse Gear Plate	2900	Worm Shaft Bushing Pinion Nut
731	Intermediate Gear Plate	2901	Intermediate & Spiral Gear Stud Nut
732	Headstock Center	2902	Intermediate Gear Stud Nut
733	Work Driver	2903	Index Stop Pin Collar
743	Spindle Thread Guard	2904	Worm Shaft Washer
		2905	Worm Shaft Bushing Washer

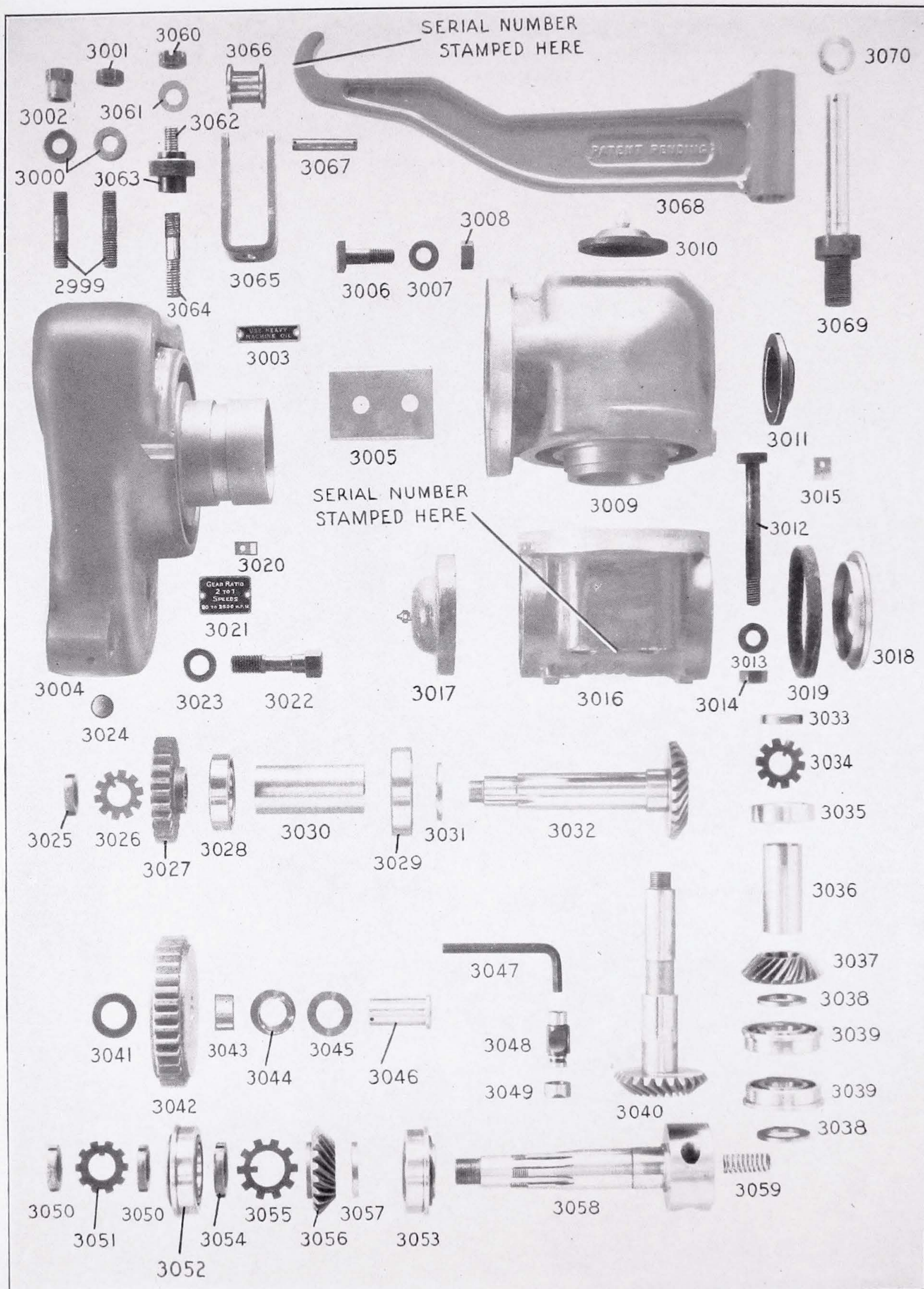


Coolant System

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

Coolant System

1454	Coolant Valve
1515	Table Coolant Strainer
2040	Distributor
2041	Distributor Pipe
2042	Distributor Pipe Swivel
2043	Distributor Stud
2044	Distributor Bracket
2045	Distributor Link
2046	Distributor Link Fulcrum
2047	Distributor Bracket Swing Bolt
2048	Distributor Bracket Swing Bolt Knob
2049	Distributor Bracket Swing Bolt Fulcrum
2570	Flexible Tube Swivel
2571	Flexible Tube Swivel Sleeve
2572	Flexible Tube Swivel Nut
2573	Flexible Tube Swivel Adjusting Nut
2986	Coolant Piping
2987	Stand Plug
2988	Distributor Flexible Tube
2989	Table Flexible Tube
2990	Coolant Strainer Clamp Screw
2991	Switch Push Button Plate
2992	Switch
2993	Switch Button Extension, Start (Black)
2994	Switch Button Extension, Stop (Red)
2995	Switch Button Extension Washer
2996	Coolant Pump Push Button Plate
2997	Centrifugal Motorpump (See "Repair Parts for Brown & Sharpe Pumps")
2998	Centrifugal Pump Support



No. 0 Universal Milling Attachment and No. 0 Attachment Crane

When ordering parts, specify the size, style and serial number of the machine in addition to the part number and name.

No. 0 Universal Milling Attachment

2999	Swivel Bracket Stud	3036	Spindle Driving Gear Sleeve
3000	Swivel Bracket Stud Washer	3037	Spindle Driving Gear Pinion
3001	Swivel Bracket Stud Nut, Front	3038	Spindle Driving Gear Washer
3002	Swivel Bracket Stud Nut, Rear	3039	Spindle Gear Ball Bearing, Lower
3003	Oiling Notice Plate	3040	Spindle Driving Gear
3004	Swivel Bracket	3041	Attachment Driving Gear Washer
3005	Swivel Bracket Shim	3042	Attachment Driving Gear
3006	Horizontal Swivel Bolt	3043	Attachment Driving Gear Bushing
3007	Horizontal Swivel Bolt Washer	3044	Attachment Gear Stud Washer, Bronze
3008	Horizontal Swivel Bolt Nut	3045	Attachment Gear Stud Washer, Steel
3009	Horizontal Swivel	3046	Attachment Driving Gear Stud
3010	Horizontal Swivel Cap	3047	Spindle Cam Wrench
3011	Spindle Driving Gear Cap	3048	Spindle Cam
3012	Vertical Swivel Clamp Bolt	3049	Spindle Bushing
3013	Vertical Swivel Clamp Bolt Washer	3050	Attachment Spindle Nut
3014	Vertical Swivel Clamp Bolt Nut	3051	Attachment Spindle Lock Washer
3015	Horizontal Swivel Pointer	3052	Spindle Roller Bearing, Rear
3016	Vertical Swivel	3053	Spindle Roller Bearing, Front
3017	Spindle Cap, Rear	3054	Spindle Pinion Nut
3018	Spindle Cap, Front	3055	Spindle Pinion Lock Washer
3019	Spindle Oil Retainer	3056	Spindle Pinion
3020	Swivel Bracket Pointer	3057	Spindle Pinion Washer
3021	Speed Ratio Plate	3058	Attachment Spindle
3022	Attachment Clamp Bolt	3059	Spindle Adapter Spring
3023	Attachment Clamp Bolt Washer		
3024	Stand Opening Cover		
3025	Intermediate Driving Gear Nut		
3026	Intermediate Driving Gear Lockwasher		
3027	Attachment Gear, Driven		
3028	Intermediate Gear Ball Bearing, Rear		
3029	Intermediate Gear Ball Bearing, Front		
3030	Intermediate Driving Gear Sleeve		
3031	Intermediate Driving Gear Washer		
3032	Intermediate Driving Gear		
3033	Spindle Driving Gear Nut		
3034	Spindle Driving Gear Lock Washer		
3035	Spindle Gear Ball Bearing, Upper		

No. 0 Attachment Crane

3060	Swivel Bracket Stud Nut
3061	Swivel Bracket Stud Washer
3062	Swivel Bracket Stud
3063	Attachment Support Adjusting Nut
3064	Attachment Support Adjusting Stud
3065	Attachment Support
3066	Attachment Support Roller
3067	Attachment Support Roller Stud
3068	Crane Arm
3069	Crane Arm Stud
3070	Crane Arm Stud Washer

