

# ***Snap-on***<sup>®</sup>

## **EEBR312A Brake Lathes**



### ***Parts Identification***

READ these instructions before placing unit in service. KEEP these and other materials delivered with the unit in a binder near the machine for ease of reference by supervisors and operators.

***Snap-on***<sup>®</sup>

# Parts Identification

## Table of Contents

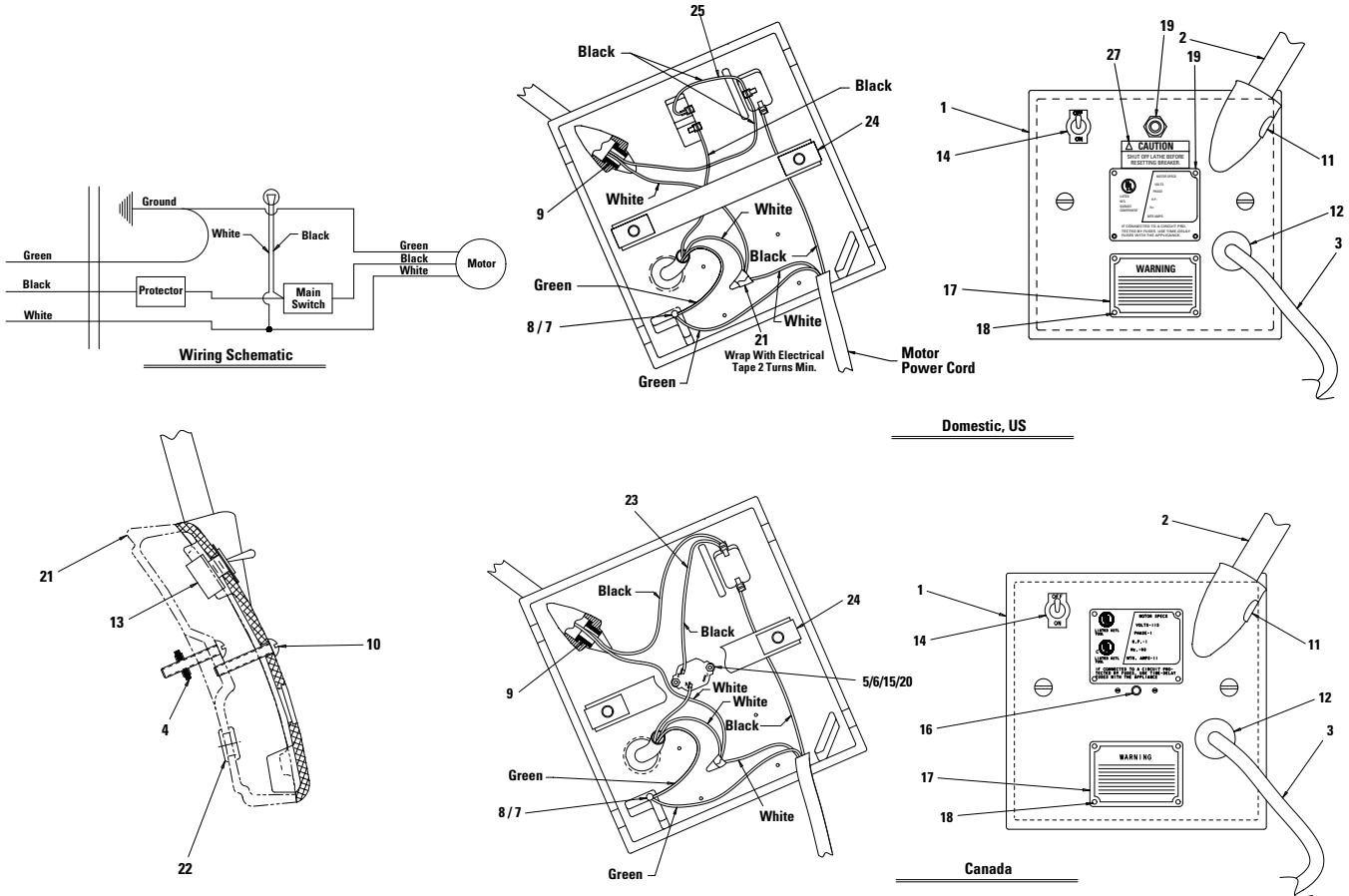
Electrical Panel Assembly . . . . .	3
Main Frame Assembly and Spindle . . . . .	4 - 5
Variable Feed Drum Gearbox Assembly . . . . .	6 - 7
Motor Mount and Drive Shaft . . . . .	8 - 9
Disc Brake Feed Mechanism . . . . .	10 - 11
Crossfeed Assembly . . . . .	12
Twin Cutter . . . . .	13

## Parts Identification

The following pages include full parts breakdowns with exploded view illustrations to help with ordering replacement or spare parts. Assemblies are noted where it is recommended that individual parts not be ordered separately. These parts are available only as assemblies because some parts are staked, pinned, or press fitted, then drilled, machined, or bored. Close tolerances must be maintained in assembly. Every effort is made to supply accurate exploded views, however, due to interim changes in manufacturing operations, some units may not be exactly as illustrated.

# Parts Identification

## Electrical Panel Assembly



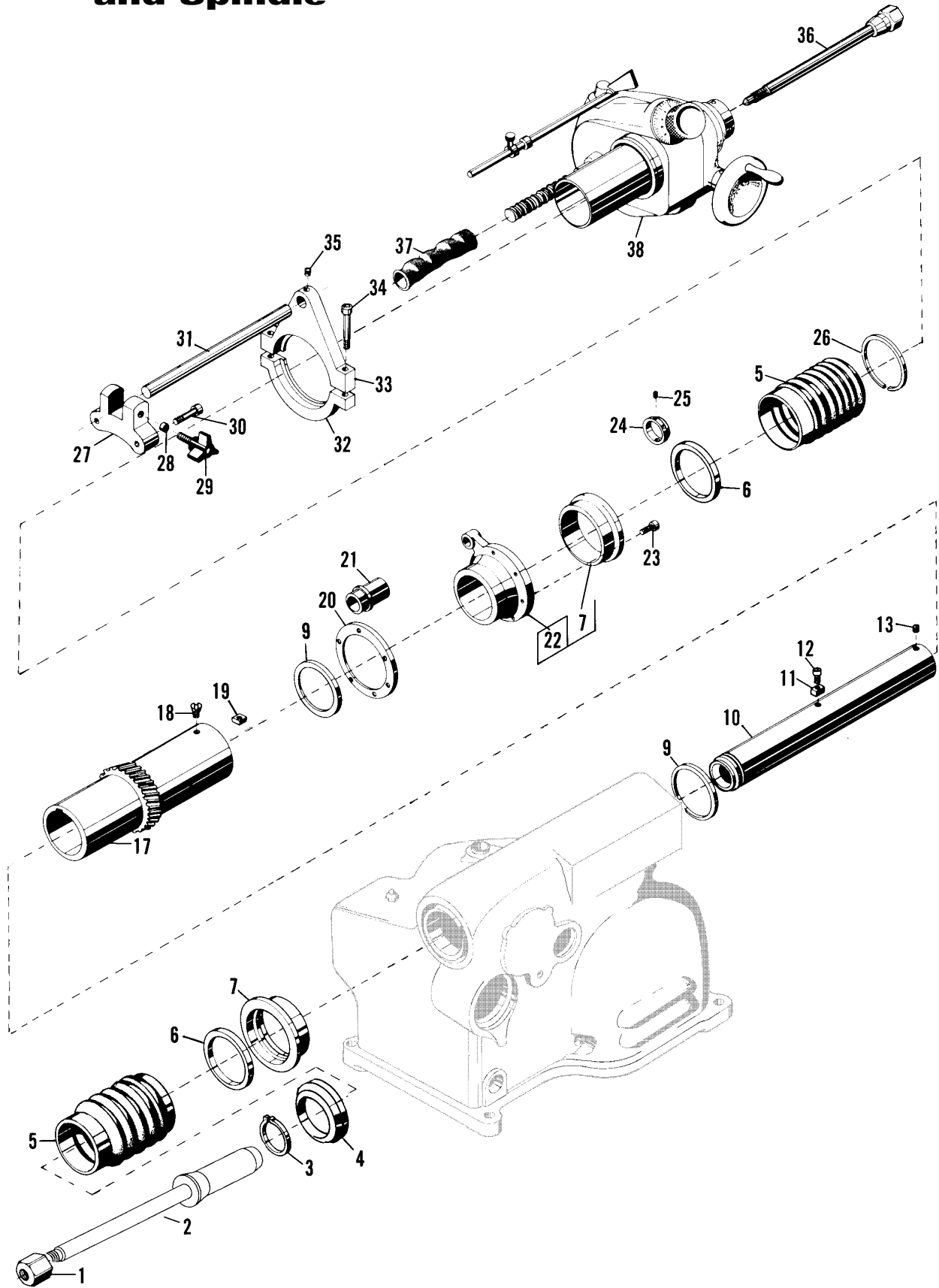
Item	Qty	Part No.	Description
1	1	910348	Electrical Panel, US
	1	922545-2	Electrical Panel, Canada
2	1	907963	Lamp
3	1	907209	Cord Set
4	1	940388	Strap
5	2	922549	Screw
6	2	906492	Nut
7	1	921972	Screw, Self Tapping #16
8	1	901926	Lock Washer
9	1	906889	Bushing
10	4	903183	Round Head Screw
11	1	900220	Set Screw
12	1	906058	Cord Grip
13	1	906893	Switch
14	1	901185	Switch Plate
15	2	922546	Spacer
16	1	922547	115V Protector, CSA, Canada

Item	Qty	Part No.	Description
17	1	920463	Caution Tag, US
	1	922243	Caution Tag, CSA, Canada
18	8	900306	Drive Screw
19	1	940868	15 AMP Circuit Breaker, US
20	2	901724	Lock Washer
21	1	9039152	Panel
22	1	903912	Grommet
23	1	922544	Jumper
24	2	940441	Tinnerman Nut
25	1	940988	Black Wire Assembly, US
27	1	941103	Reset Decal, US

\* not shown

# Parts Identification

## Main Frame Assembly and Spindle



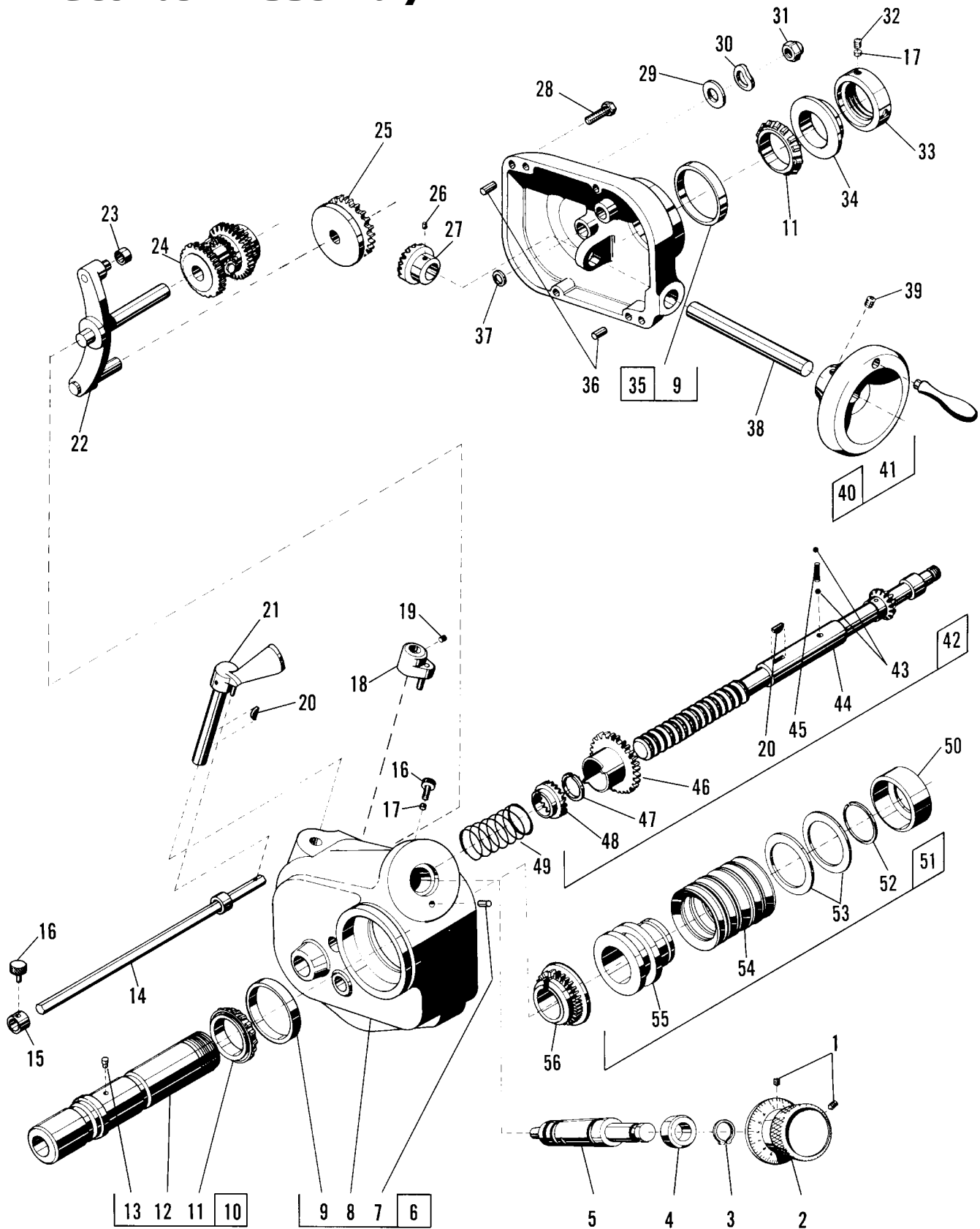
# Parts Identification

<b>Item</b>	<b>Qty</b>	<b>Part No.</b>	<b>Description</b>
1	1	903102	Nut, Arbor
2	1	903101	Arbor
3	1	903159	Ring, Retaining
4	1	923682	Ring, Adapter
5	2	903085	Boot
6	1	940720	Seal, Oil, DBL Lip
7	2	903089	Ring, Oil Seal Adapter
9	2	903033	Washer, Thrust
10	1	907714	Spindle Body
11	1	909831	Key, Drive
12	1	906486	Screw, Socket Head Cap
13	1	903224	Screw, Cuppoint Set
17	1	910216	Quill, Drive
18	1	906868	Screw, Flat Hd.
19	1	910737	Block, Keyway
20	*	903032	Shim (0.005 THK)
	*	921322	Shim (0.0075 THK)
21	1	907712	Nut, Lead Screw
22	1	907729R	Rear Flange Assy.
23	4	900209	Screw, Skt. Hd. Cap
24	1	904671	Nut, Take Up
25	1	903338	Screw, Skt. Hd. Set
26	1	904435	Ring, Boot
27	1	909592	Clamp, Front
28	1	903142	Plug, Brass
29	1	941128	Knob
30	2	903319	Screw, Skt. Hd. Cap
31	1	909593	Rod, Lock
32	1	909998	Clamp, Rear, Lower
33	1	909999	Clamp, Rear, Upper
34	2	906825	Screw, Skt. Hd. Cap
35	1	900213	Screw, Set
36	1	907716	Drawbar & Nut Assy.
37	1	907703	Boot & Spring
38	1	907702-SO	Feed Mechanism

\* Quantity as Required

# Parts Identification

## Variable Feed Drum Gearbox Assembly



# Parts Identification

Item	Qty	Part No.	Description	Item	Qty	Part No.	Description
1	2	911241	Screw, Allen Set	31	1	903184	Nut, Stop
2	1	903043	Feed Dial Assembly	32	1	900213	Screw, Allen Set
3	1	903097	Ring, Retaining	33	1	909443	Nut, Bearing Lock
4	1	909930	Bearing, Thrust	34	1	909444	Washer, Spherical
5	1	903066	Screw, Feed Adjusting	35	1	909498-2	Gear Case Cover Assembly
6	1	925184-2	Gear Case Assembly	36	2	903038	Pin, Dowel
7	1	903132	Pin, Groove	37	1	904641	Washer, Bone Fiber
8	1	925182-2	Gear Case	38	1	903054	Shaft
9	1	903392	Cup, Bearing	39	1	900220	Screw, Set
10	1	907007	Spindle Extension Assembly	*40	1	903090-50	Handwheel Assembly
11	1	903391	Bearing, Taper Roller	41	1	903026	Handle, Crank
12	1	903154	Spindle Extension	42	1	908237	Lead Screw and Clutch Assembly
13	1	903092	Pin, Groove	43	2	900311	Ball, Steel
14	1	907717	Shut-Off Assy.	*44	1	909919	Lead Screw/Miter Gear Assembly
15	1	903039	Collar, Stop	45	1	903060	Spring, Clutch
16	2	903084	Screw, Knurled	46	1	903047	Gear, Sliding Clutch
17	2	903141	Plug, Brass	47	1	906163	Ring, Retaining
*18	1	903058	Clutch Shifter Assembly	48	1	907264	Clutch Jaw
19	1	900212	Screw, Allen Set	49	1	907263	Spring, Coil
20	2	904449	Key, Hy-Pro	50	1	903061	Cup, Spring Loading
*21	1	903042	Clutch Handle And Shaft Assy.	51	1	903082	Friction Disc Assy.
*22	1	907343	Feed Control Lever and Differential Assembly	52	1	903093	Ring, Retaining
23	1	903036	Roller	53	2	903064	Washer
24	1	907338	Pinion Bushing Assy.	54	10	903062	Spring, Belleville
*25	1	903081	Driven Friction Disc and Bearing Assembly	55	1	903078	Disc, Sliding Friction
26	1	903098	Screw, Dog Point Set	56	1	903077	Clutch, Fixed Friction
27	1	903069	Gear, Miter	*Sold as assembly only.			
28	4	903094	Screw, Socket Hd. Cap				
29	4	903324	Washer				
30	1	906155	Washer, Wave				



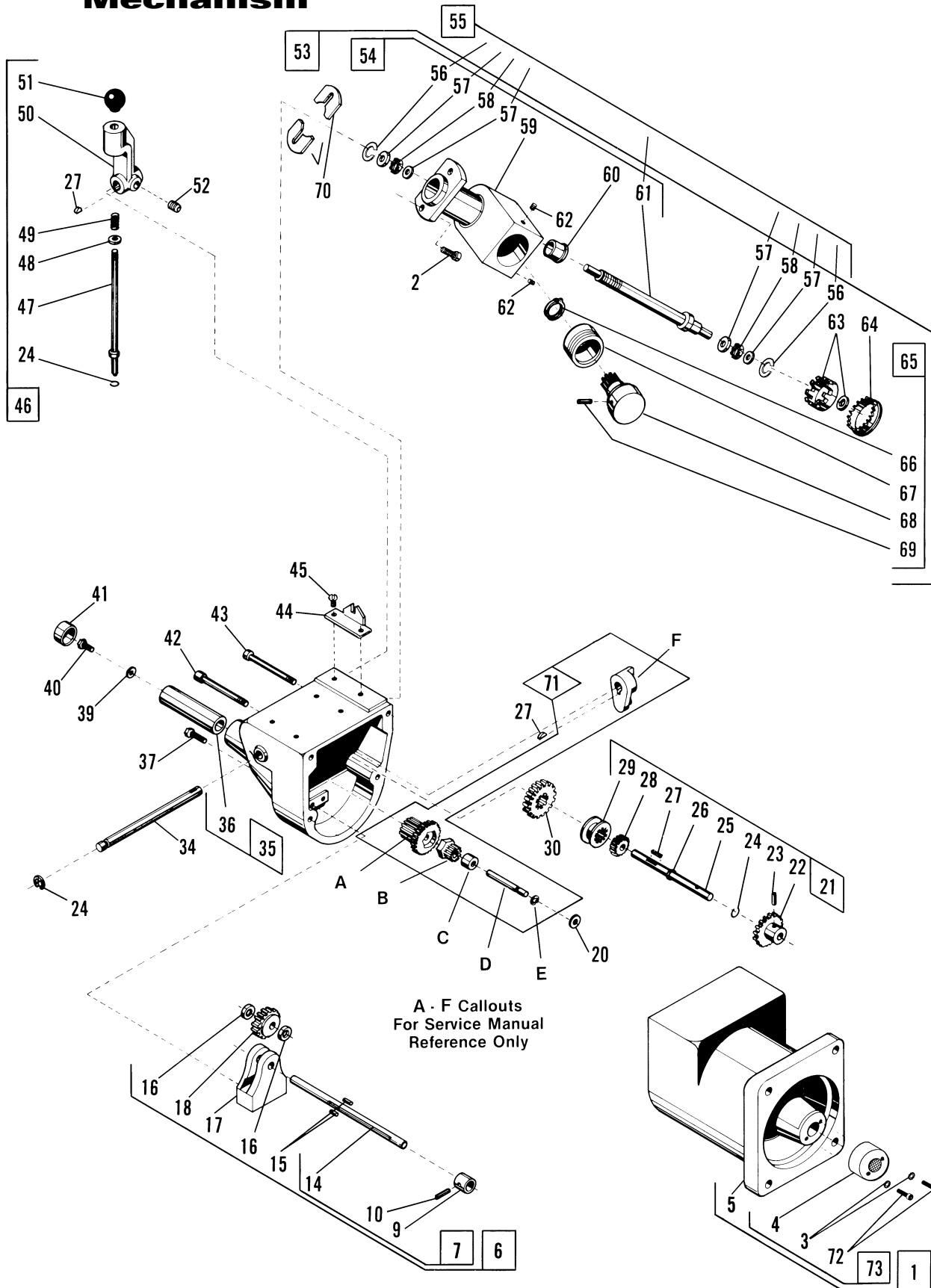


# Parts Identification

Item	Qty	Part No.	Description
1	1	906766	O-Ring
2	2	906101	Screw, Hex Hd. Cap
3	2	921557	Washer, Lock
4	1	902165	Motor/Bracket Assy.
6	1	903639	Pulley, Drive
7	2	900217	Set Screw**
8	1	903023	Shaft, Motor Mount
9	1	903015	Lever, Belt Tension
10	1	903035	Pin, Eccentric Belt Release
11	1	907348	Lever Belt Release Assy.
12	1	903088	Handle, Belt Release
13	1	900320	Knob, Ball
14	1	903180	Screw, Socket Hd.
15	*	902364	Washer, Wave (*Qty As Required)
16	1	903223	Bushing, Motor Mount Shaft
17	1	903377	Nut, Hex
18	1	903166	Plug, Welch
19	1	903172	Ring, Retaining I.D.
20	2	903394	Cup, Bearing
21	2	903393	Bearing, Cone
22	1	903372	Plug, Allen Pipe
23	1	922006	Fitting, Grease
24	1	940140	Shaft, Worm W/Square Keyway
25	*	903169	Shim, 0.005" (*Qty As Required)
	*	903170	Shim, 0.007" (*Qty As Required)
	*	903171	Shim, 0.020" (*Qty As Required)
26	1	903186	Cap And Seal Assy.
27	1	903010	Cap, Bearing Seal
28	1	903163	Seal, Oil
29	1	907784-1	Pulley W/Pin & Tube
30	1	924239	Pin, Groove
31	1	925588	Tube, Rubber
32	1	910241	V-Belt
33	1	900236	Screw, Hex Hd. Cap
34	1	940139	Key, Square
35	1	903215	Sleeve, Oil Filler
36	1	903148	Dipstick
37	1	911273	Nut, Self-Locking
39	1	907788-2	Guard, Belt
40	1	910352-3	Panel Assy., Electrical, US
	1	922550-2	Panel Assy., Electrical, Canada
41	2	900220	Screw, Set**
42	1	925454	Key, Square

# Parts Identification

## Disc Brake Feed Mechanism



# Parts Identification

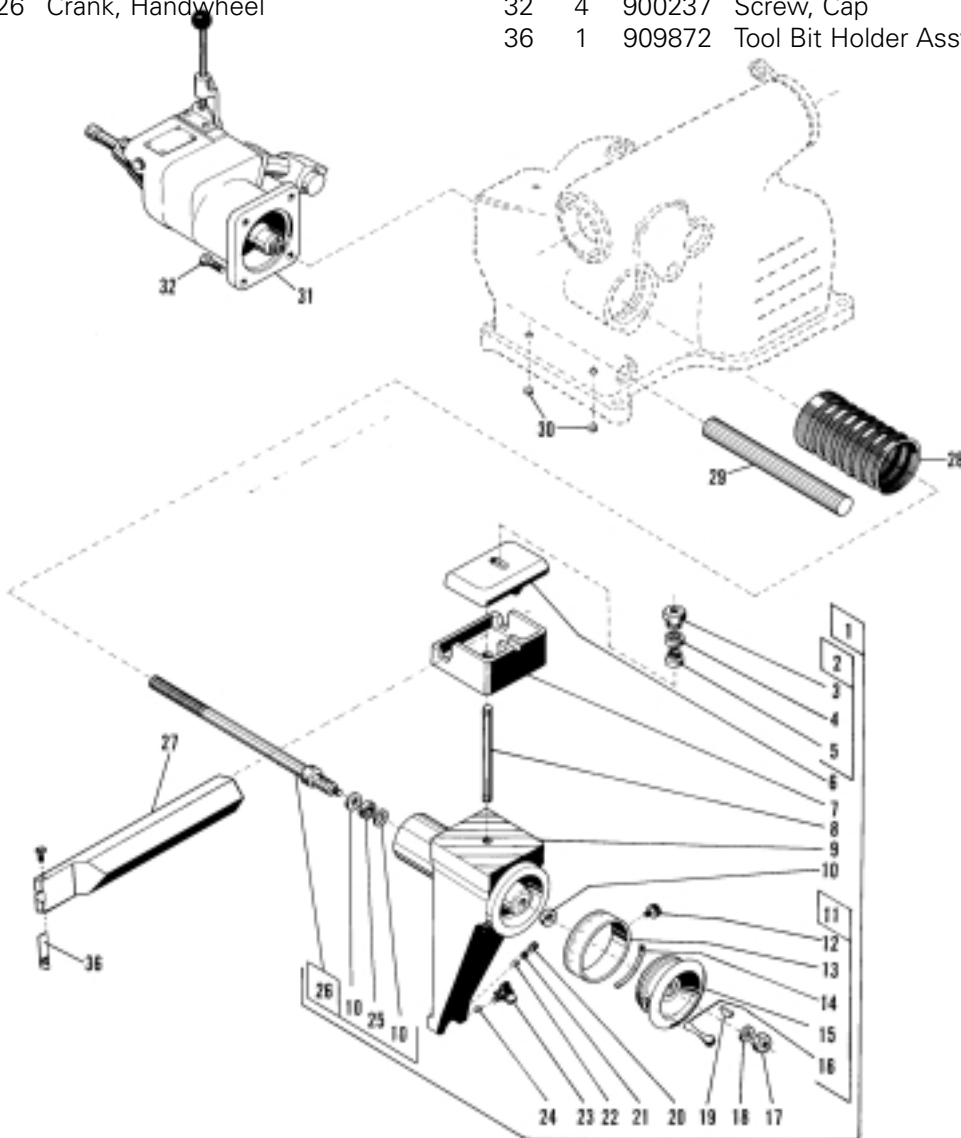
Part				Part			
Item	Qty	No.	Description	Item	Qty	No.	Description
1	1	910870-2	Gear Case Assembly	46	1	907742	Shifter Handle Assy.
2	4	903221	Screw, Socket Head	47	1	907746	Pin, Shifter Handle
3	2	903910	Washer, Lock	48	1	906451	Washer
5	1	907790-2	Case, Gear	49	1	907699	Spring
*6	1	940718	Drive Rod and Coupling Assy.	50	1	907744-1	Body, Shifter Handle
*7	1	940719	Universal Coupling Assy.	51	1	900320	Knob, Ball
*9	1	940717	Coupler	52	1	900220	Screw, Set
*10	1	940403	Pin, Roll	53	1	909815-2	Driven Assy., Right Angle Drive
14	1	907774	Rod, Drive	54	1	924241-2	Worm Drive Assy.
15	2	906937	Pin, Dowel	*55	1	940401	Worm Shaft Repair Kit
16	2	906973	Washer, Thrust	*56	1	905639	C Clip
17	1	907775	Trap	*57	2	906872	Washer, Travel
18	1	907778	Gear, Drive	58	1	906871	Bearing, Needle Thrust
20	1	906350	Washer, Bone Shim	59	1	907998-2	Housing, Drive
21	1	909814	Shifter Shaft Assy.	60	1	906749	Bushing, Oilite
22	1	907994	Gear, Helix	*61	1	907997	Worm Drive Assy.
23	1	904006	Pin, Roll	62	2	906834	Screw, Cone Point Set
24	2	905613	Ring, Retaining	63	1	907996	Shear Gear And Ring Assy.
25	1	907764	Shaft, Clutch	64	1	906446	Plug, Dot
26	1	906138	Ring, Retaining	65	1	909821	Coupling Assy.
27	5	903176	Key, Woodruff	66	1	903174	Ring, Retaining
28	1	909816	Gear, Fine Feed	67	1	909825	Spacer And Bushing Assy.
29	1	909813	Clutch	68	1	909822	Coupling And Gear Assy.
30	1	909812	Gear, Coarse Feed	69	1	904096	Pin, Roll
34	1	907748	Shaft, Shift	70	2	907908	Shim, 0.005"
35	1	907902-2	Gear Case Cover and Tube Assy.	2	2	907903	Shim, 0.010"
36	1	907783	Tube	2	2	907904	Shim, 0.020"
37	2	903221	Screw, Socket Hd. Cap	2	2	907905	Shim, 0.030"
39	1	904789	Washer	71	1	924516	Shifter & Intermediate Gear Assy.
40	1	906254	Screw, Socket Hd. Cap	72	2	928367	Screw, Cap
41	1	906974	Cap, Tube	73	1	928529	Lead Screw Nut Kit
42	2	906392	Screw, Hex Hd. Machine				
43	2	906391	Screw, Hex Hd. Machine				
44	1	907747	Plate, Index				
45	2	904508	Screw, Round Hd. Machine				

\*Sold as assembly only.

# Parts Identification

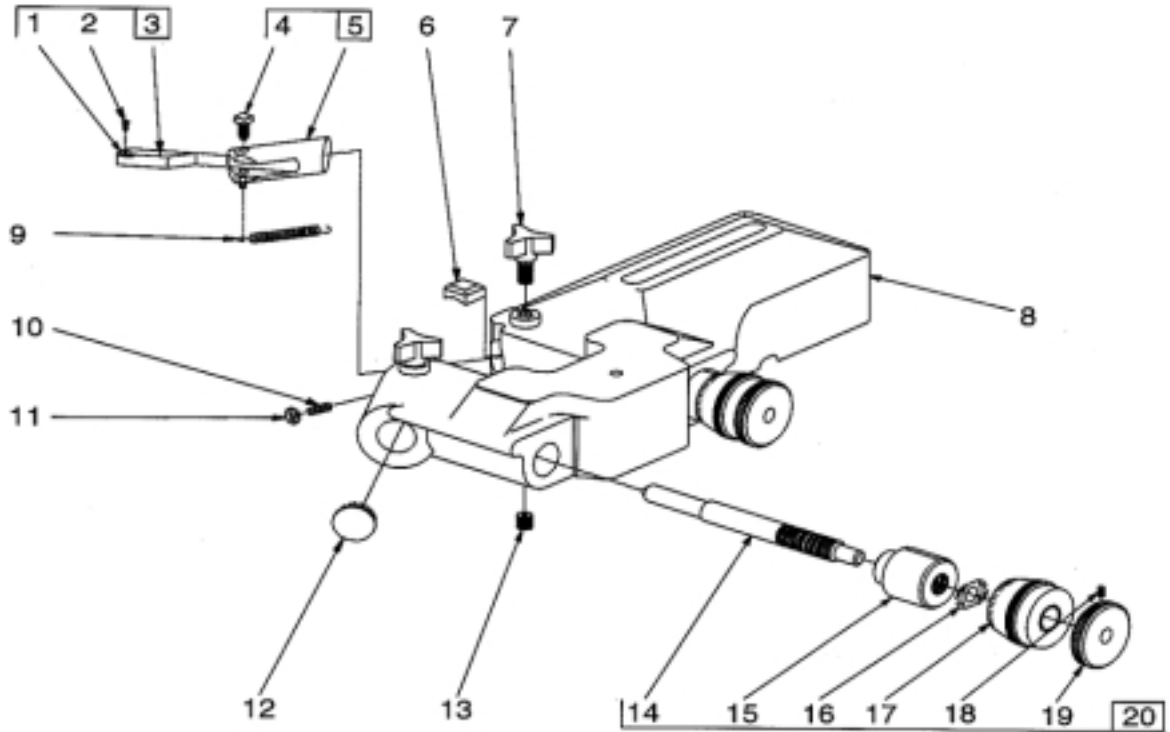
## Cross Feed Assembly

Item	Qty	Part No.	Description	Item	Qty	Part No.	Description
1	1	907345	Cross Feed Assembly	17	1	902309	Nut, Handwheel
2	1	911227	Nut/Washer, Hex, Self-Align, Assy.	18	1	903214	Washer, Flat
3	1	911221	Nut, Locking	19	1	903176	Key, Woodruff
4	1	911225	Retainer	20	1	900220	Screw, Set
5	1	911224	Washer	21	1	902064	Spring
6	1	903017-2	Clamp, Boring Bar, Upper	22	1	909836	Plug
7	1	920666-2	Clamp, Boring Bar, Lower	23	1	941128	Knob, Locking
8	1	903031	Stud, Boring Bar	24	1	903142	Plug, Brass
9	1	909635-03	Crossfeed	25	1	906873	Bearing, Needle Thrust
10	3	906874	Race	26	1	903211-1	Lead Screw Assembly
11	1	909626-2	Crossfeed Handwheel Assembly	27	1	929240	Boring Bar and Screw Assy.
12	1	906839	Screw, Set	28	1	903087	Boot and Spring Assy.
13	1	909634	Dial	29	1	910346	Bar, Guide
14	1	909611	Spring, Dial	30	2	901680	Screw, Hex Hd. Set
15	1	909633-2	Handwheel	31	1	907751B2	Gearbox Assy.
16	1	903026	Crank, Handwheel	32	4	900237	Screw, Cap
				36	1	909872	Tool Bit Holder Assy, Drum



# Parts Identification

## Twin Cutter



Item	Qty	Part No.	Description	Item	Qty	Part No.	Description
1	2	907681-2	Carbide Insert, Positive Rake	13	2	906109	Screw, 3/16-16 Set
2	2	906499	Screw, #4-40 X .25 Oval Head	14	2	906908	Rod, Dial
3	1	925968	Holder, Tool Bit, RH, Positive Rake	15	2	906906	Plug, Dial
	1	925969	Holder, Tool Bit, LH, Positive Rake	16	2	906929	Washer, Spring
4	2	909249	Screw, Square Head Set	17	2	906907	Dial, Micrometer
5	1	910650	Tool Holder, Left Hand	18	2	903338	Screw, Set
	1	910651	Tool Holder, Right Hand	19	2	906923	Knob, Dial Rod
6	2	928584	Gib, Brass, Tool Holder	20	1	906901	Dial Assembly
7	1	941128	Screw, Lock				
8	1	928572-2	Twin Cutter Housing				
9	1	906905	Spring				
10	2	909879	Screw, Locating				
11	2	903528	Nut, Hex				
12	2	906977	Plug, Dot				

# Parts Identification

## Notes

# Parts Identification

## Notes

