

WYSONG AND MILES COMPANY

GREENSBORO, NORTH CAROLINA

PARTS LIST AND ILLUSTRATIONS

POWER SQUARING SHEAR NO. 838

When ordering parts, please refer to the item number, quantity, name of part, part number, and serial number of your machine. The serial number will be found stenciled on the table outside the right-hand side gauge.

February 1966

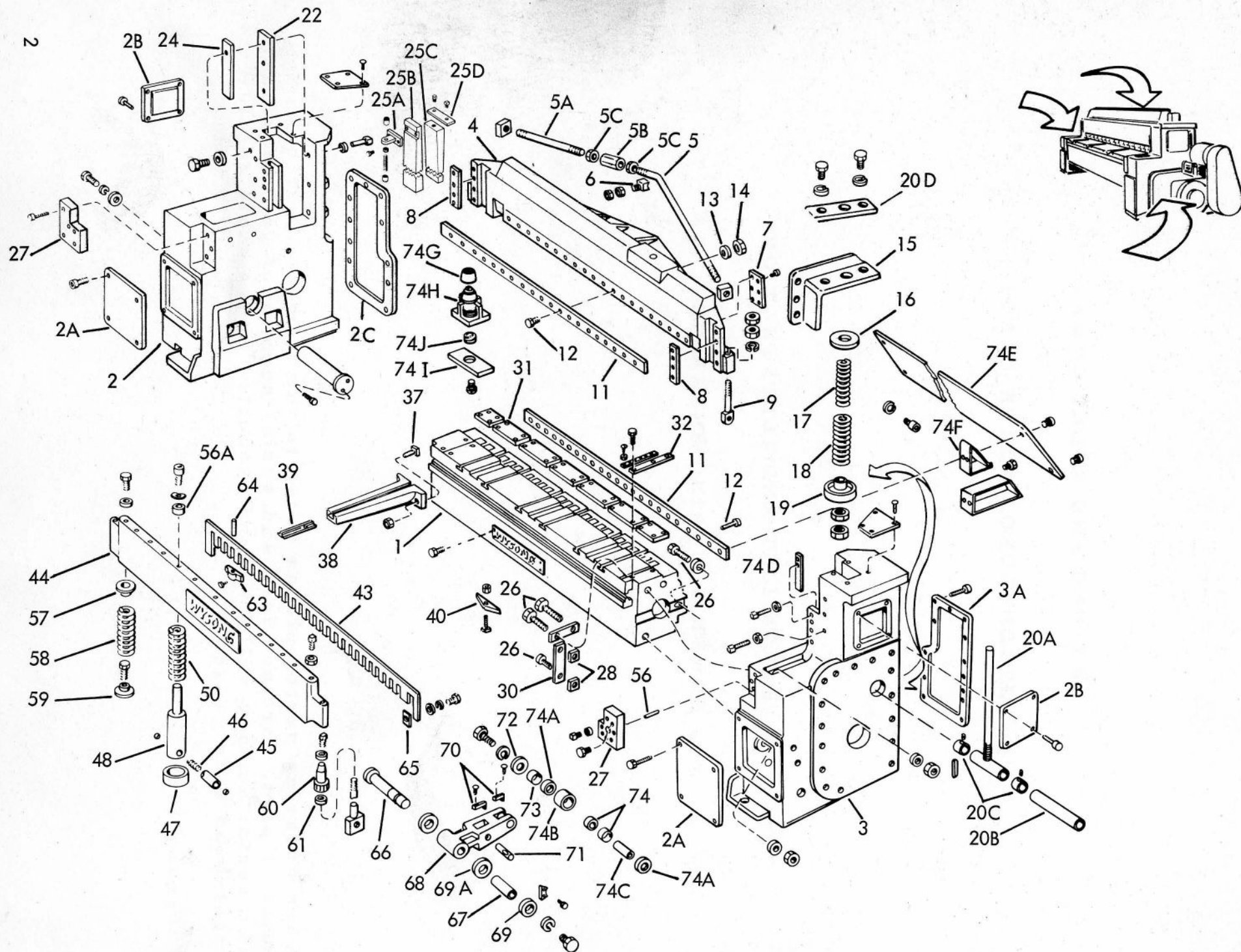


FIG. 1 TABLE - END HOUSINGS - H₁ DOWN - KNIFE BAR ASSEMBLY

TABLE, END HOUSING, HOLDDOWN, AND KNIFE BAR ASSEMBLIES FOR NO. 838
(See Figure 1)

<u>TEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
1	1	Table	S38-100
2	1	Left-Hand End Housing	S38-79
2A	2	Front Covers	S38-45
2B	2	Side Covers	S38-46
2C	1	Rear Cover, Left-Hand	S38-48
3	1	Right-Hand End Housing	S38-78
3A	1	Rear Cover, Right-Hand	S38-48
4	1	Knife Bar	S38-101
5	1	Tension Rod - Long	S38S-103
5A	1	Tension Rod - Short	S38S-104
5B	1	Tension Rod Turnbuckle	S38S-38
6	1	Tension Rod Stud	S38S-37
7	2	Main Wear Plates (Non-Metallic)	MG-30
8	2	Take-Up Wear Plates (Non-Metallic)	MG-29
9	2	Eyebolts	S38S-127
11	2	Blades	4" x 1" x 98"
12	34	Blade Bolts	5/8" x 4-1/2"
13	34	Blade Bolt Washers	5/8"
14	34	Blade Bolt Nuts	5/8"
15	1	Spring Bracket, Right-Hand	S38-38
	1	Spring Bracket, Left-Hand	S38-39
16	2	Upper Spring Seats	S38-40
17	2	Inside Counterbalance Springs	B-63
18	2	Outside Counterbalance Springs	B-64
19	2	Lower Spring Seats	S38-41
20A	2	Spring Rods	S38S-42
20B	2	Spring Mounting Shafts	S38S-41
20C	4	Spacing Collars	7HS-84
20D	2	Locating Plates	S38S-43
22	2	Gibs (Stationary)	S38-83
24	2	Take-Up Gibs	S38-84
26	10	Table Bolts	S38S-137
27	1	Table Adjusting Lug, Right-Hand	S38-42
	1	Table Adjusting Lug, Left-Hand	S38-43
28	8	Table Bolt Washers	S38S-32
30	4	Table Bolt Locking Plates	S38S-30
31	1	Table Plate	S25S-142
32	2	Side Gauges	S38S-33
33	2	Table Scales	
37	5	T-Bolts with nuts and washers	8GS-82
38	2	Table Extensions	S38-44
39	2	Disappearing Stops	8GS-160A
40	1	Angle Gauge	5Y-66
43	1	Finger Guard	S25S-24
44	1	Holddown	S38S-108
45	13	Ball Sleeves	S38S-145
46	13	Sleeve Springs	B-110

TABLE, END HOUSING, HOLDDOWN, AND KNIFE BAR ASSEMBLIES FOR NO. 838
(See Figure 1)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
47	13	Holddown Feet	S38S-146
48	13	Holddown Pins	S38S-143
50	13	Holddown Pressure Springs	B-84
55	26	Steel Balls	1/2"
56	2	Dowel Pins	8GS-108
56A	13	Holddown Feet Washers	S38S-55
57	2	Top Return Spring Guides	S38S-65
58	2	Holddown Return Springs	B-83
59	2	Lower Return Spring Seats	S38S-66
60	2	Holddown Locking Nuts	S38S-67
61	2	Holddown Locking Nut Washers	S38S-74
62	2	Holddown Pull Rods	S38S-56
63	3	Finger Guard Guides	8H-53
64	3	Finger Guard Guide Pins	8HS-115
65	2	Finger Guard Spacer Blocks	S25S-173
66	2	Holddown Lever Pins	S38S-61
67	2	Holddown Lever Bushings	S38-30
68	2	Holddown Levers	S38-29
69	2	Lever Pin Spacers	S38S-63
69A	4	Lever Pin Spacers	S38S-62
70	4	Retaining Pins	S10S-35 & 36
71	2	Holddown Pull Rod Pins	S38S-160
72	Not required		
73	Not required		
74	4	Roller Bearings (McGill)	FR-1-1/4"
74A	4	Thrust Washers	8HS-65
74B	2	Cam Rollers	8HS-68
74C	2	Cam Roller Pins	S38S-58
74D	2	Holddown Gibs	S38S-68
74E	1	Ramp Plate	S38S-109
74F	4	Ramp Plate Brackets	S38S-86 & 87
74G	8	Ball Transfers	Type 202A
74H	8	Ball Transfer Supports	S50-87
74I	8	Ball Transfer Retainers	S50S-133
74J	8	Springs	B-122

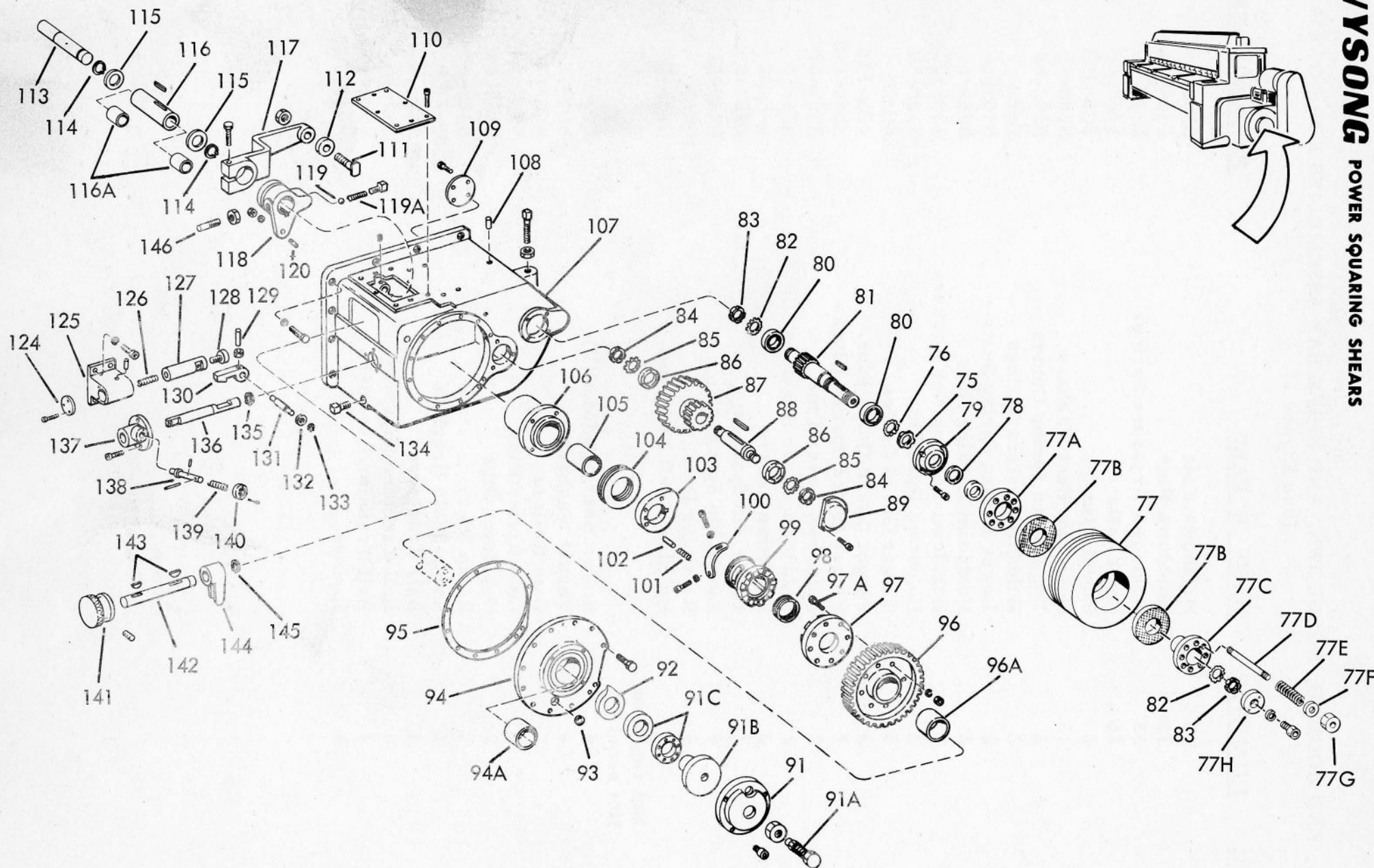


FIG. 2 GEAR CASE ASSEMBLY

GEAR CASE ASSEMBLY FOR NO. 838
(See Figure 2)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
75	1	Lock Nut	N-11
76	1	Lock Washer	W-11
77	1	Flywheel	S38-20
77A	1	Flywheel Clutch Pressure Plate	S38S-22
77B	2	Flywheel Clutch Discs	Type US-1488
77C	1	Flywheel Hub	S38-21
77D	8	Flywheel Clutch Spring Studs	S38S-23
77E	8	Springs	B-86
77F	8	Spring Stud Washers	S38S-93
77G	8	Flex-loc Nuts	7/8"-9
77H	1	Retaining Cup	S38S-96
78	1	Pinion Shaft Seal	60930
79	1	Pinion Shaft Cap	S38-8
80	2	Bearings - Pinion Shaft	22314
81	1	Pinion Shaft	S38S-166
82	2	Lock Washers	W-14
83	2	Lock Nuts	N-14
84	2	Lock Nuts	N-14
85	2	Lock Washers	W-14
86	2	Bearings (Intermediate Shaft)	22314
87	1	Intermediate Gear	S38S-167
88	1	Intermediate Shaft	S38S-4
89	1	Intermediate Shaft Bearing Cap	S38-7
91	1	Top Center Indicator Housing	S38-14
91A	1	Thrust Bearing Adjusting Screw	S38S-12
91B	1	Thrust Block	S38S-20
91C	1	Thrust Bearing	F-43
92	1	Top Center Indicator	S38-13
93	1	Oil Gauge	
94	1	Gear Case Cover	S38-6
94A	1	Gear Case Cover Bushing	S38-51
95	1	Gear Case Cover Gasket	
96	1	Bull Gear	S38S-1
96A	1	Bull Gear Bushing	S30-50
97	1	Clutch Drive Plate	S38S-121
98	1	Bull Gear Spacing Collar	S38S-95
99	1	Clutch Driven Plate	S38S-120
100	1	Clutch Release Cam	S38-71
101	4	Clutch Springs	B-85
102	4	Clutch Spring Studs	8GS-81
103	1	Non-Repeat Cam	S38-12
104	1	Thrust Bearing	G-57
105	1	Eccentric Shaft Bearing Bushing (Outside, Right-Hand)	S38-22B
106	1	Eccentric Shaft Bearing (Outside, Right-Hand)	S38-22

GEAR CASE ASSEMBLY FOR NO. 838

(See Figure 2)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
107	1	Gear Case	S38-5
108	1	Air Vent	
109	1	Gear Case Rear Cover	S38-9
110	1	Gear Case Hand Hole Cover	S38-15
111	1	Non-Repeat Roller Stud	7KS-39
112	1	Non-Repeat Arm Roller	7KS-41
113	1	Non-Repeat Arm Pivot Shaft	8HS-46
114	2	Tru-Arc Lock Rings	5100-100
115	2	Sleeve Retaining Collars	8HS-88
116	1	Non-Repeat Arm Sleeve	8HS-44
116A	2	Non-Repeat Arm Sleeve Bushings	8H-22
117	1	Non-Repeat Arm Sleeve	S38-16
118	1	Non-Repeat Pawl Lifting Liner	S38-69
119	1	Steel Ball	1/2"
119A	1	Non-Repeat Slide Spring	B-37
120	1	Pawl Striking Stud	8HS-48
124	1	Clutch Bracket Spring Cap	S38-11
125	1	Clutch Bracket	S38-70
126	1	Cam Slide Spring	B-89
127	1	Cam Retracting Slide	S38S-129
128	1	Cam Retracting Roller	S38S-130
129	1	Pawl Lifting Pin	8HS-41
130	1	Non-Repeat Pawl	8HS-40
131	1	Pawl Slide Pin	S38S-18
132	1	Pawl Retaining Collar	8HS-38
133	1	Tru-Arc Lock Ring	5100-62
134	1	Drain Plug	
135	1	Tru-Arc Lock Ring	5100-100
136	1	Pawl Engaging Plunger	S38S-17
137	1	Engaging Plunger Guide	S38-17
138	1	Lock Pin	7KS-96
139	1	Treadle Lock Spring	B-58
140	1	Pin Guide	7KS-97
141	1	Knob	8HS-51
142	1	Shifter Arm Shaft	S38S-19
143	2	Woodruff Keys	
144	1	Lifting Liner Shifting Arm	S38-18
145	1	Tru-Arc Lock Ring	5100-100
146	1	Shifting Stud	8HS-49

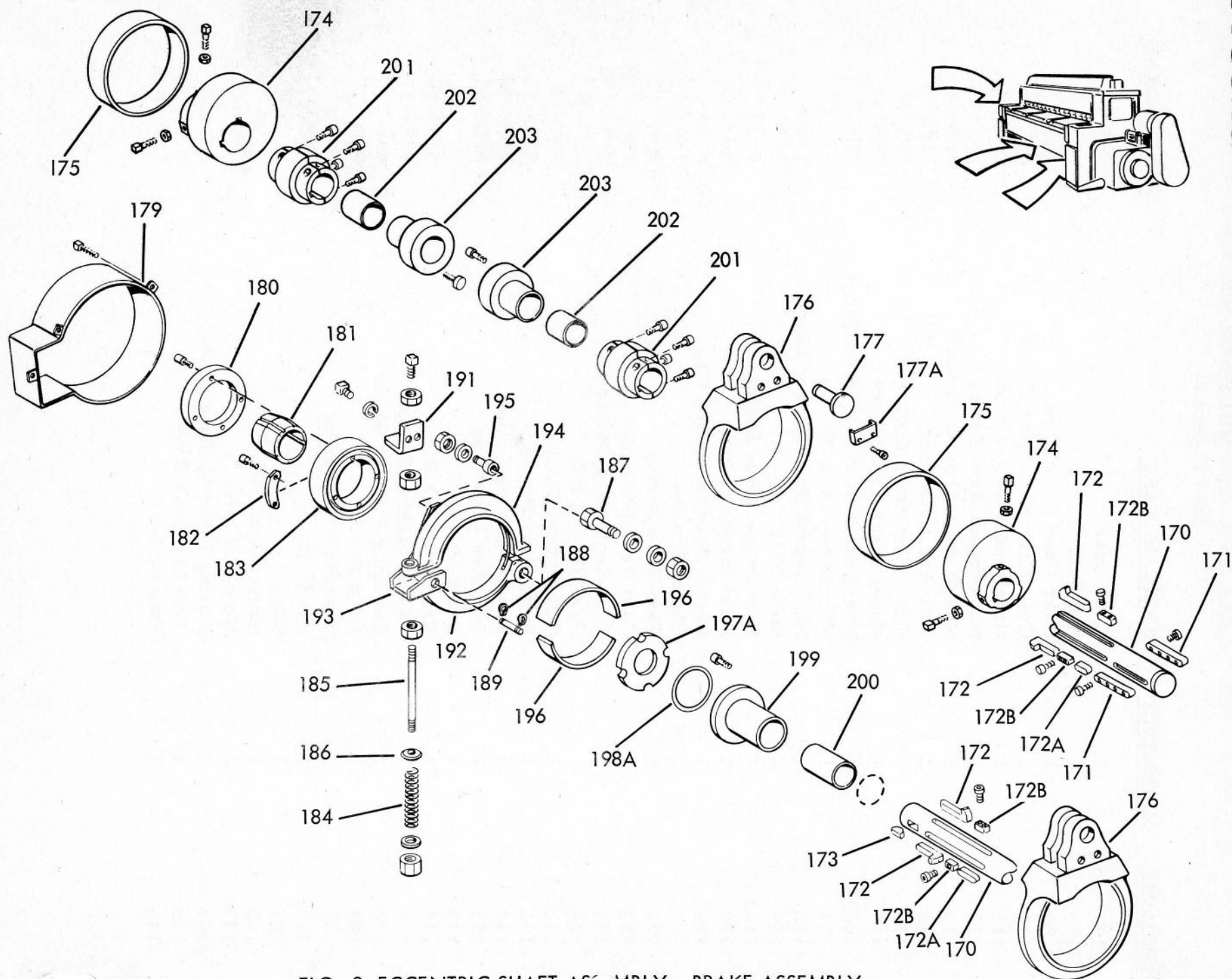


FIG. 3 ECCENTRIC SHAFT ASSEMBLY - BRAKE ASSEMBLY

(See Figure 3)

<u>TEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
170	1	Eccentric Shaft	S38S-107
171	2	Clutch Drive Keys	S38S-11
172	4	Eccentric Keys	S38S-48
172A	2	Holddown Cam Keys	S38S-69
172B	4	Eccentric Key Locks	S38S-49
173	1	Clamping Sleeve Key	
174	2	Eccentric	S38-102
175	2	Eccentric Strap Bushings	S38-28
176	2	Eccentric Straps	S38-27
177	2	Connection End Pins	S38S-113
177A	2	Keeper Plates	S38-66
179	1	Brake Cover	S25S-82
180	1	Clamping Sleeve Collar	S38S-71
181	1	Brake Drum Clamping Sleeve	S38S-70
182	1	Brake Cam	8HS-97
183	1	Brake Drum	S38-75
184	1	Brake Spring	B-21
185	1	Spring Stud	8HS-103
186	2	Spring Stud Washers	8HS-102
187	1	Brake Pivot Stud	S38S-73
188	2	Tru-Arc Lock Rings	5100-100
189	1	Brake Arm Pivot Stud	8HS-105
191	1	Male Brake Shoe Stop	8HS-104
192	1	Female Brake Shoe	S38-77
193	1	Brake Arm	S38S-126
194	1	Male Brake Shoe	S38-76
195	1	Cam Follower	CF-2
196	1	Brake Lining	2" x 1/4" x 15'
	1	Brake Lining	2" x 1/4" x 18'
197A	1	Brake Thrust Washer	S38S-72
198A	1	Oil Seal	61349
199	1	Eccentric Shaft Bearing (Outside, Left-Hand)	S38-23
200	1	Eccentric Shaft Bushing (Outside, Left-Hand)	S38-23B
201	2	Holddown Cams	S38-74
202	2	Eccentric Shaft Bearing Bushing (Inside, Right-Hand)	S38-25B
203	1	Eccentric Shaft Bearing (Inside, Left-Hand)	S38-25
	1	Eccentric Shaft Bearing (Inside, Right-Hand)	S38-24

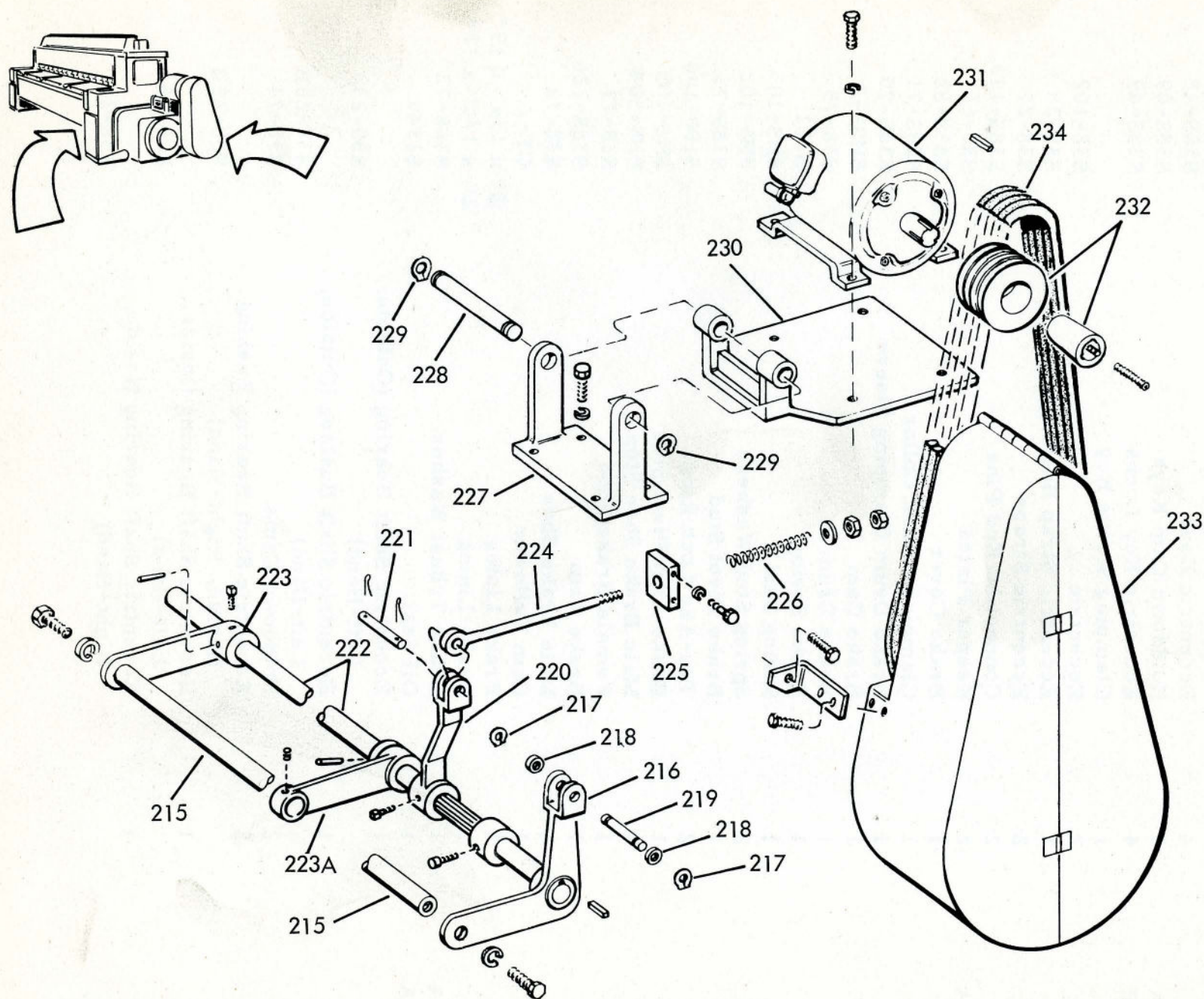


FIG. 4 FOOT TREADLE ASS'Y - MOTOR ASSEMBLY

FOOT TREADLE AND MOTOR ASSEMBLIES FOR NO. 838

(See Figure 4)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
215	1	Foot Treadle	S38S-105
216	1	Clutch Pawl Lever	S38-35
217	2	Tru-Arc Lock Rings	5100-62
218	2	Pin Washers	8HS-59
219	1	Pawl Lever Pin	8HS-56
220	1	Treadle Spring Lever	S38-34
221	1	Spring Lever Pin	8HS-58
222	1	Foot Treadle Shaft	S38S-103
223	1	Foot Treadle Lever	S38-32
223A	1	Foot Treadle Arm	S38-33
224	1	Treadle Spring Eyebolt	8GS-97
225	1	Treadle Spring Guide Bracket	8HS-57
226	1	Treadle Spring	B-28
227	1	Motor Base Bracket	S38S-25
228	1	Motor Base Pivot Shaft	S38S-26
229	2	Tru-Arc Lock Rings	5100-175
230	1	Motor Base	S38S-100
231	1	Motor - 15 HP, 1800 RPM	284 U Frame
232	1	Motor Pulley - 3 Grooves, 10.5" P.D.	
233	1	Belt Guard	S38-77
234	3	V-Belts	C-112

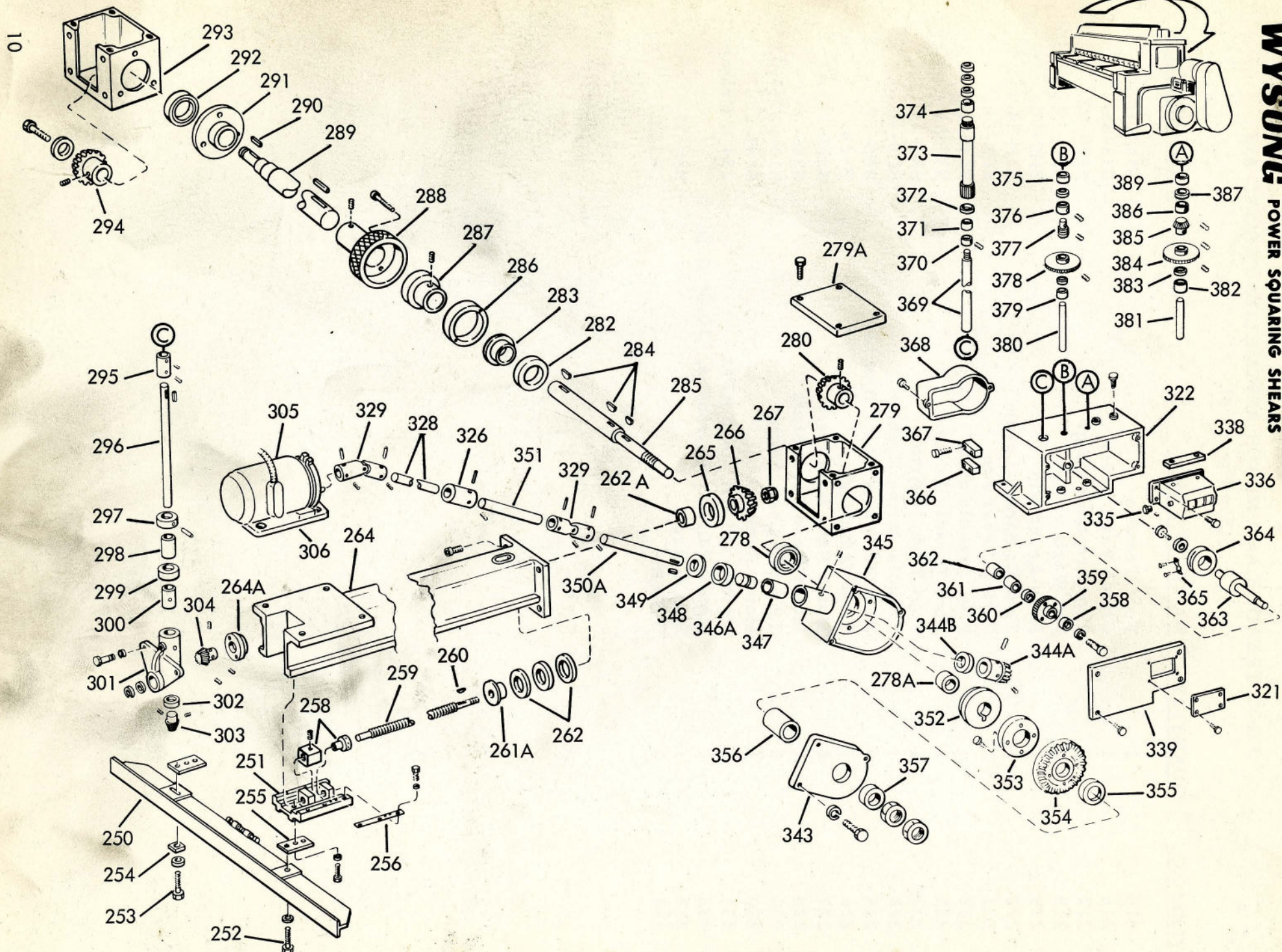


FIG. 5 BACK GAUGE ASSEMBLY

POWER BACK GAUGE ASSEMBLY (36" RANGE) FOR NO. 838
(See Figure 5)

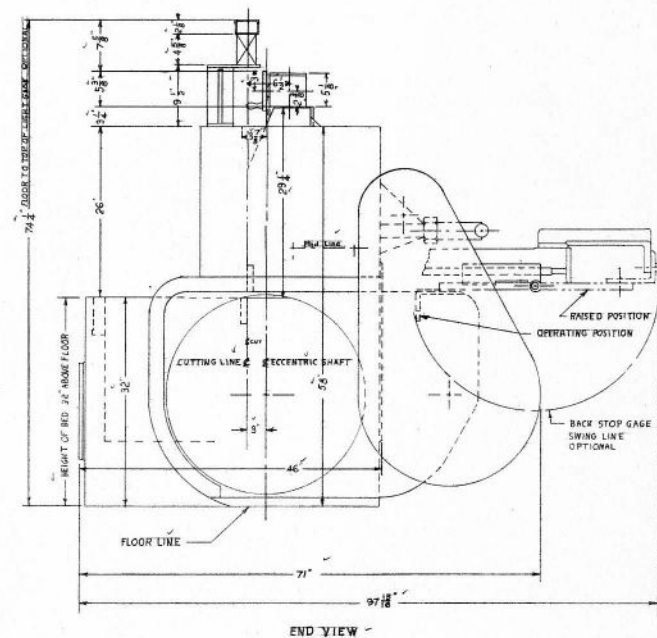
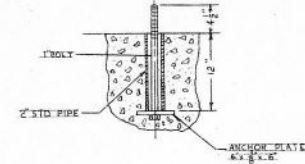
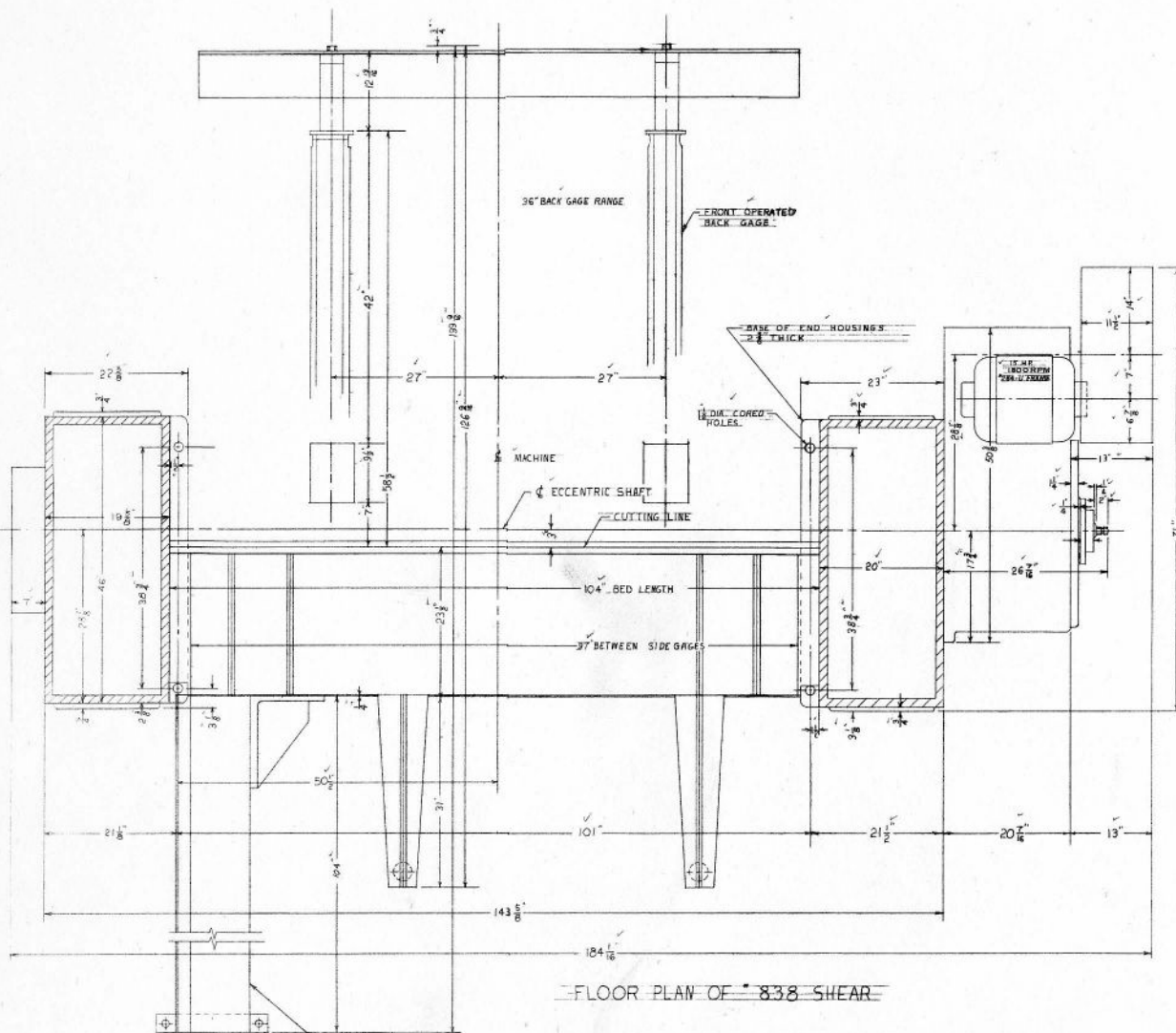
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
250	1	Back Gauge Stop	S38S-100
251	2	Slides	G38-12
252	1	Shoulder Screw, Right End	G38S-4
253	1	Shoulder Screw, Left End	G38S-4
254	1	Rail Bushing	G38S-6
255	2	Slide Extensions	G38S-15
256	4	Slide Gibs	G38S-16
258	2	Driving Nuts (2 each)	G38-6 & 7
259	1	Back Gauge Driving Screw, Left-Hand	G38S-1
	1	Back Gauge Driving Screw, Right-Hand	BGS-97
260	2	Woodruff Keys	
261A	2	Screw Spacing Collars	7HS-249
262	2	Thrust Bearings	G-18
262A	2	Bearing Spacers	7HS-248
264	2	Rails	G38-1
264A	2	Screw Bushings	G38-8
265	2	Bearings	6208-2RS
266	2	Gauge Screw Miter Gears	7HS-257
267	2	Nuts	1/2"-20
278	1	Bearing	6206-2RS
278A	1	Bearing Spacer	BGS-58
279	1	Right-Hand Gear Housing	BG-47
279A	2	Gear Housing Covers	7H-255
280	1	Horizontal Miter Gear	7HS-256
282	1	Bearing	6208-2RS
283	1	Bearing Spacer	7HS-577
284	3	Woodruff Keys	
285	1	Horizontal Drive Shaft (Short)	BGS-66
286	1	Locking Ring	7HS-479
287	1	Clutch Drum (Inside)	7H-260
288	1	Clutch Shoe (Outside)	7H-261
289	1	Horizontal Drive Shaft (Long)	7HS-243
290	1	Key	
291	1	Left-Hand Gear Housing Cap	7H-257
292	1	Bearing	6205-2RS
293	1	Left-Hand Gear Housing	7H-256
294	1	Horizontal Miter Gear	BGS-61
295	1	Coupling	BGS-85
296	1	Miter Gear Shaft	BGS-68
297	1	Collar	BGS-33
298	2	Bearings	B-1412
299	2	Bearings	IR-1012
300	1	Sleeve	BGS-12
301	1	Front Drive Housing	BG-40
302	1	Thrust Bearing	F-1

POWER BACK GAUGE ASSEMBLY (36" RANGE) FOR NO. 838
(See Figure 5)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
303	1	Screw Miter Gear	L-101-Y
304	1	Miter Gear	BGS-57
305	1	Motor - Frame G56SP24 (Master)	Type PA
306	1	Motor Base	7HS-603
321	1	Measuring Box Dial Cover	Plexiglass
322	1	Measuring Box	BG-32
326	1	Drive Shaft Coupling	BGS-208
328	1	Upper Drive Shaft	BGS-31
329	2	Universal Joints	Upper J-150B Lower BGS-29
335	1	Miter Gear	G465Y
336	1	Veeder Root Unit	A-113033
338	1	Clamping Plate	BGS-79
339	1	Measuring Box Cover	BG-33
343	1	Gear Box Cover	BG-10
344A	1	Pinion Gear	BGS-34
344B	1	Thrust Washer	BGS-49
345	1	Gear Box	BG-19
346A	1	Bearing Spacer	BGS-28
347	2	Bearings	B-1616
348	2	Needle Bearings	IR-1216
349	1	Washer	BGS-49
350A	1	Pinion Shaft	BGS-35
351	1	Universal Drive Shaft	BGS-191
352	1	Plate	BG-7
353	1	Washer	BG-6
354	1	Bevel Gear	BGS-19
355	1	Thrust Washer	BGS-30
356	1	Spacer	BGS-59
357	1	Thrust Washer	BGS-30
358	1	Collar	BGS-82
359	1	Worm Gear	BG-29
360	1	Collar	BGS-82
361	1	Bushing	B812-4
362	1	Bushing	B812-4
363	1	Limit Control Shaft	BGS-80
364	1	Limit Control Drum	BGS-48
365	2	Limit Control Springs	BGS-45
366	1	Micro Switch	WZ-2R-A2
367	1	Micro Switch	DT-2R-A7
368	1	Measuring Box Rear Cover	BG-34
369	1	Drive Gear Shaft	BGS-76
370	1	Collar	5/8"
371	1	Bushing	B-1013-4
372	1	Thrust Washer	BGS-38
373	1	Drive Gear	BGS-77

POWER BACK GAUGE ASSEMBLY (36" RANGE) FOR NO. 838
(See Figure 5)

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
374	1	Bushing	B-1418-6
375	1	Bushing	B-48-4
376	1	Collar	BGS-82
377	1	Worm	HLUH
378	1	Driven Gear	BG-28
379	1	Bushing	B48-4
380	1	Counter Shaft	BGS-78
381	1	Counter Shaft	BGS-78
382	1	Bushing	B-48-4
383	2	Thrust Washers	BGS-81
384	1	Driven Gear	BG-28
385	1	Gear	G465Y
386	1	Collar	1/4"
387	2	Thrust Washers	BGS-81
389	1	Bushing	B-48-4



MACHINE FLOOR PLAN
338 SHERB
DRAWN 1/27/73
CHK'D
SCALE 1/8"
WYSONG & MILES CO.
GREENSBORO, N. C.
TOLERANCES:
FRA. ± 1/32"
DIA. ± .005"
UNLESS OTHERWISE SPECIFIED