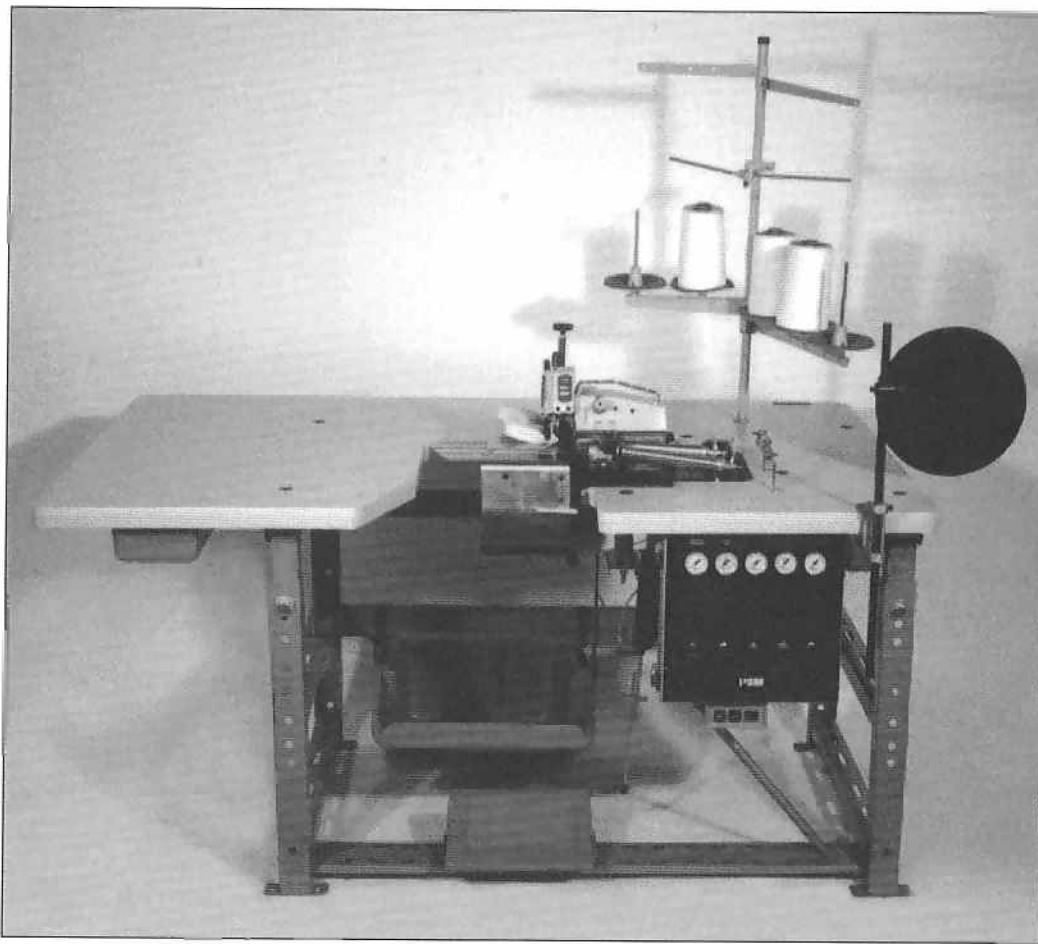




Catalog #BS 401 9/96

#9520

# BS 401 Mattress & Box Spring Machines



## INSTRUCTIONS & PARTS MANUAL

*For BS 401-100, BS 401-300, BS 401-500, BS 401-600 & CB 100*

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## INSTRUCTIONS

### RECOMMENDED SPEEDS

**BS 401-100, 300 & CB-100** NOT TO EXCEED 4200 SPM.

**BS 401-500** NOT TO EXCEED 3400 SPM.

**BS 401-600** NOT TO EXCEED 2100 SPM.

### NEEDLES

The **BS 401-100, 300 & CB-100** are designed to use needle type PSM 130.

The **BS 401-500** is designed to use needle type PSM 160.

The **BS 401-600** is designed to use needle type PSM 1160(23).

Generally, the size of the needle should be determined by the size of thread or weight of material to be sewn.

### DAILY MAINTENANCE

#### *Before morning start*

- Make sure oil level is correctly maintained in oil sight gauge.
- Make sure needle is correctly set and not damaged.
- Make sure threading is correct.
- Make sure chaining thread approximately 10 mm long remains behind presser foot.

#### *Chaining Thread*

It is necessary to have a chaining thread approximately 10 mm long behind the presser foot when starting to sew. This will avoid "skip-stitches."

After replacing needles or thread, check that a continuous, smooth neat chaining thread comes out from under the presser foot.

#### *At close of work*

- Remove dust and lint deposited in the machine around needle plate and looper.
- If any trouble or irregularity is found, report it to the plant mechanic for adjustment or repair.
- Keep record of needle and thread breakage.
- Dust cover, furnished with machine, should be placed on the machine.

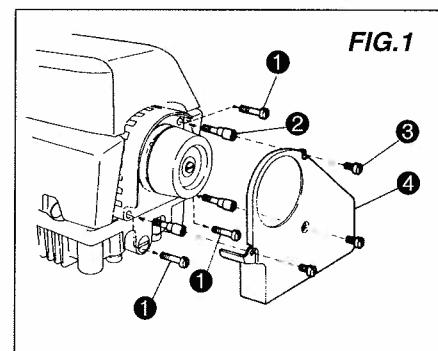
#### *Cleaning the Machine*

Cleaning the machine is a simple but important operation. It is not necessary to remove any parts. Merely release the foot and swing it out to the left. Swing out the covers and remove all the collected lint from around the loopers, feed slots, and under the needle plate. Blow out any loose lint or use a lint brush. Replace covers and return foot to the sewing position.

#### **BELT GUARD ASSEMBLY**

Assemble belt guard on machine in sequence as follows:

1. Put machine on table.
2. Replace screws ① for oil cooler cover with fixing screws ② provided.
3. Put V-belt in machine pulley.
4. Fix belt guard ④ on fixing screws ② with screws ③.
5. Rest machine in position in work table.
6. Engage V-belt in machine motor pulley.



## LUBRICATION

Lubrication is important in operating precision machines like the BS 401. The life of the machine depends on the use of quality oil. Use only oil recommended for these machines as shown at right.

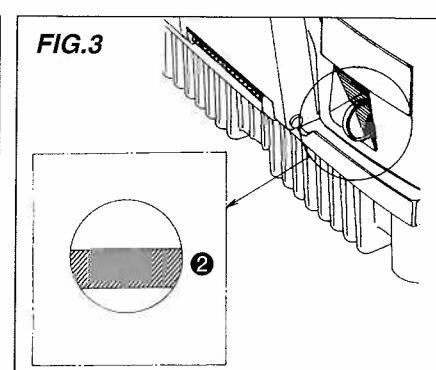
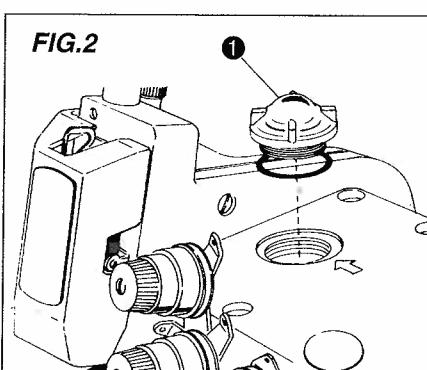
1. At the end of 4 weeks, the original oil should be drained and replaced.
2. Oil level should always be kept between two lines on the oil sight gauge (as shown in *Fig.3* below).

		Brand "A"	Brand "B"
Kinematic Viscosity (centistokes)	100°F	19.01	14.57
	210°F	4.04	3.57
Viscosity Index	VI (A)	130.0	147.5
	VI (B)	123.5	142.5
Pour Point (°F)		-59.0	-63.5
Load Carrying Capacity (kg/cm <sup>2</sup> )	more than 12 (170 psi.)	more than 12 (170 psi.)	

### To Fill Oil:

1. Remove oil sight window ① and pour fresh oil into reservoir (700 c.c. capacity) until oil reaches upper line of oil sight gauge ②.
2. Replace window ①.

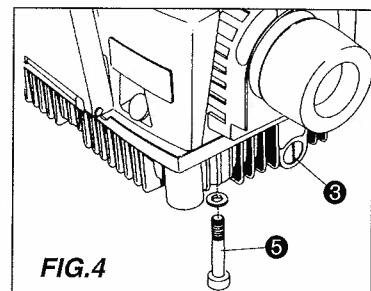
**Caution: Keep oil level between the two lines on gauge ②.**



### To Drain Oil:

1. Remove the machine from its stand and set it on a table.
2. Screw out drain plug ③ and drain oil.
3. Replace drain plug ③.

**Change oil entirely every 6 months.**

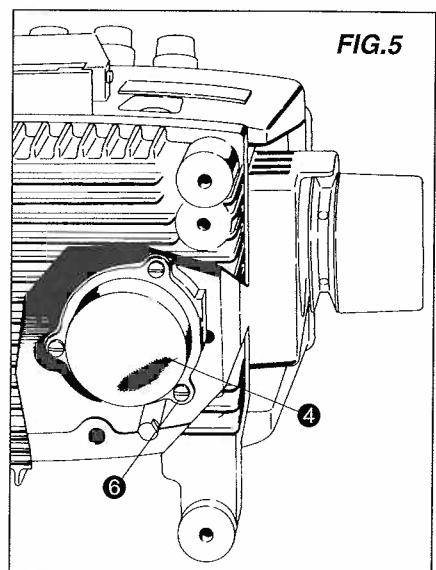


### Oil Filter

Filter ④ should be kept clean. Lubrication oil is filtered and delivered to all frictional surfaces. Clogging of this filter may cause lack of lubrication and accidental seizure of parts.

Check and clean filter every three months, or if necessary, replace with new filter when: Oil jet in oil sight window ① is restricted or weak, or oil contains foam or debris.

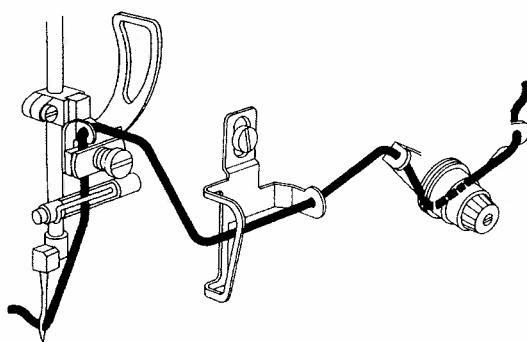
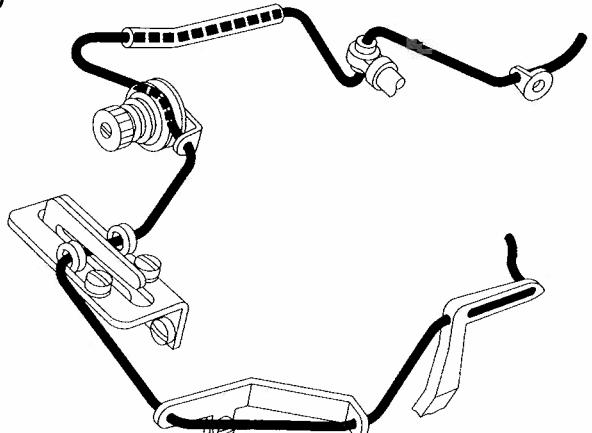
1. Drain oil from machine.
2. Remove bolts ⑤ and oil pan from machine.
3. Remove screws ⑥ and take out filter ④.
4. Clean filter ④ with new petrol and blow with low pressure air.
5. Replace filter ④ and tighten screws ⑥.
6. Replace oil pan and tighten bolts ⑤.
7. Fill reservoir level with upper line of oil sight gauge ②.



**THREADING**

When a machine is received, note that it has been threaded correctly. The simplest way to rethread it is to tie the new threads to those already in the machine and pull the new threads through, making sure that the knots will go through the looper eyes. In case the machine requires a complete rethreading, refer to threading diagrams **Fig.9 & Fig.10**.

The amount of thread tension required varies with type of material, size, and type of thread, etc. To increase thread tension, turn each thread tension nut clockwise, and to decrease, counter clockwise.

**FIG.9****FIG.10****STITCH LENGTH REGULATION**

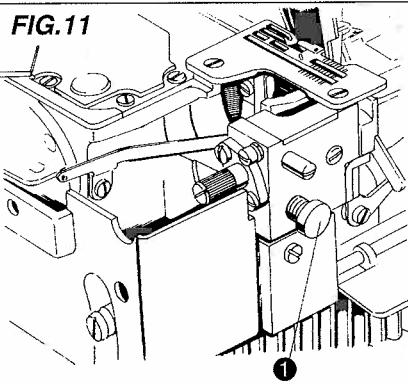
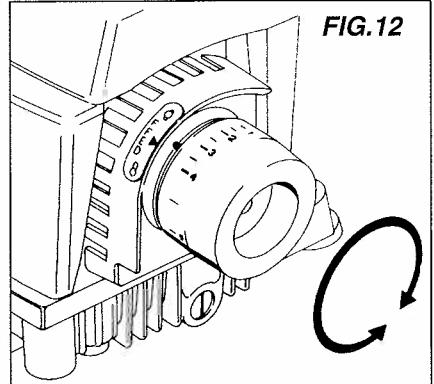
1. Swing out cloth plate to the left.
2. Press in rod ①.
3. While pressing in on rod ①, turn handwheel in the sewing direction until rod 1 drops into the hole in eccentric. Read the number shown on handwheel, opposite to the mark on indication plate. This number indicates the length of one stitch of your machine in millimeters.
4. While keeping rod ① dropped in eccentric, turn handwheel toward the desired stitch length for a longer or a shorter stitch.

*Longer stitch - Turn handwheel clockwise.*

*Shorter stitch - Turn handwheel counter clockwise.*

5. When desired stitch length is set, release rod ①.
6. Return cloth plate to the sewing position.

*The stitch length made may vary more or less depending on the material.*

**FIG.11**

**FEED HEIGHT ADJUSTMENT**

Standard height of main feed is 0.8 - 1.0 mm above the surface of needle plate at its back tooth when feeds are at their highest position. A straight edge can be placed across the top of main feeds.

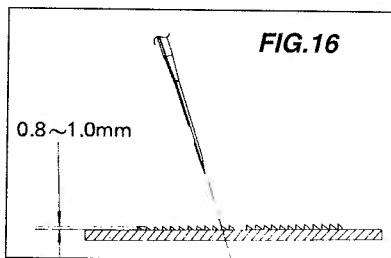


FIG. 16

1. Loosen screw ②.
2. Adjust feed ① by raising or lowering until proper height is obtained.
3. Tighten screw ②.

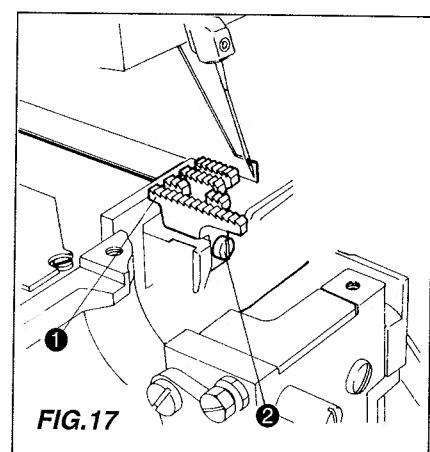


FIG. 17

**FEED TILT ADJUSTMENT**

Feed dogs have generally been preset at the factory.

In general, set feeds level as follows:

1. Turn handwheel until feeds are at their highest position.
2. Remove screws ⑥ and cover plate ⑦.
3. Loosen screw ⑧.
4. Remove screw ⑨ and turn screw ⑩ with a screwdriver until proper tilt is obtained.
5. Tighten screw ⑧ while pressing screw ⑩ to eliminate play in feed bars. Replace cover plate ⑦ and screws ⑥.
7. Replace screw ⑨.

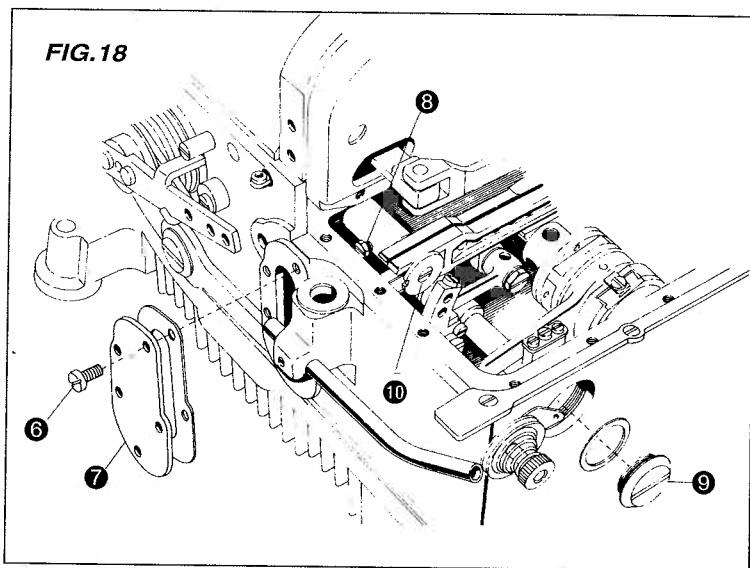


FIG. 18

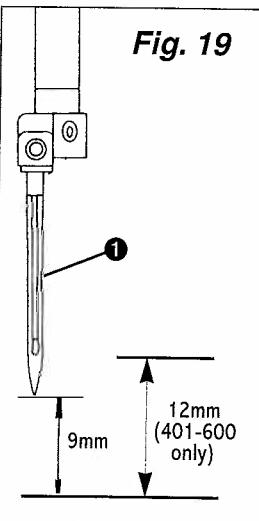


Fig. 19

**NEEDLE BAR HEIGHT ADJUSTMENT**

Turn handwheel until needle is at its highest position. Check that the clearance between the point of needle ① and the top of needle plate is correct as listed below. If this setting is incorrect, reset as follows.

1. Slightly loosen screw ②.
2. Reset needle bar to correct clearance at its highest position.
3. Turn handwheel and observe that needle descends in the center of the needle hole in needle plate.
4. Tighten screw ② securely.

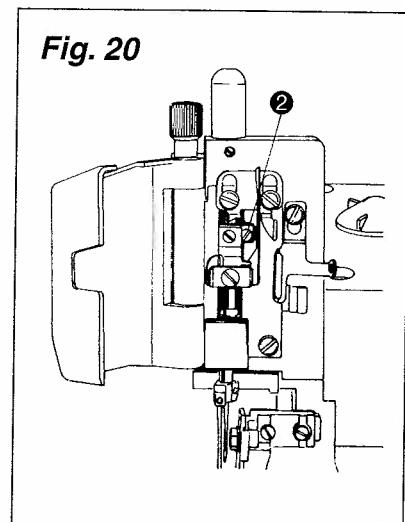
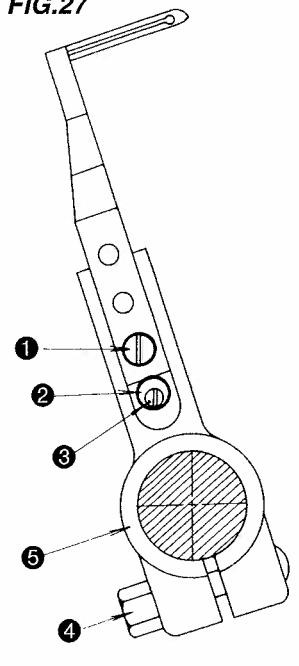


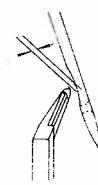
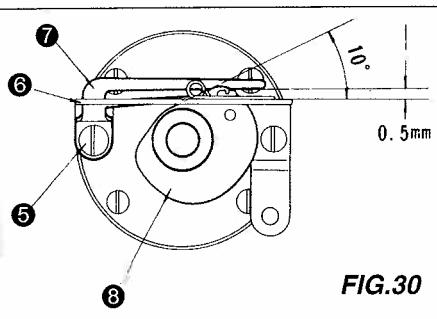
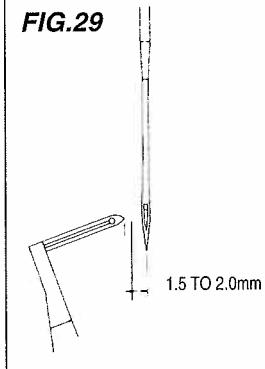
Fig. 20

**LOOPER ADJUSTMENT****FIG.27**

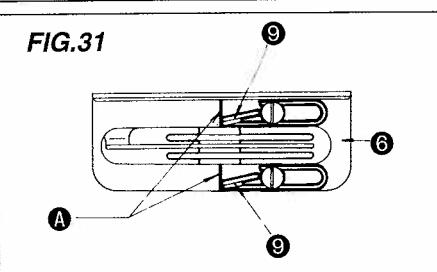
When looper is at its extreme left position, the distance 2.1 mm should be obtained from the center line of the needle to the point of looper. The clearance 0 - 0.1 mm should also be obtained when the looper point is in the scarf of the needle.

1. Slide looper into lever ⑥, making sure it reaches regulator ②.
2. If necessary, adjust this by turning regulator ②.
3. Turn handwheel by hand until needle bar ascends 3.0 mm from the lowest position.
5. Move lever ⑥ so that looper point comes to the scarf of needle and just touches needle (the clearance 0 - 0.1 mm).
6. Turn handwheel until looper is at its extreme left position.
7. Adjust the distance from the centerline of needle to point of looper to 1.5 to 2 mm.
8. Tighten screw ④ securely.

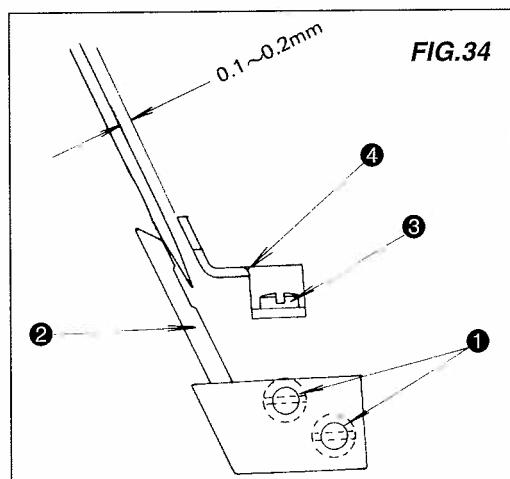
0~0.1mm

**FIG.28****FIG.29****FIG.30****LOOPER THREAD CONTROL ADJUSTMENT**

1. Lightly loosen screw ⑤.
2. Set bracket ⑥ horizontal and set guide ⑦ as 0.5 mm above from the top of bracket ⑥.
3. Tighten screw ⑤.
4. Loosen two screws for takeup ⑧ and turn handwheel until looper is at extreme right position.
5. Set takeup ⑧ so that its flat portion is at a 10 degrees angle to guide ⑦.
6. Tighten the two screws loosened.
7. Loosen screws holding eyelets ⑨ and move eyelets ⑨ until the coiled ends line up with engraved line ① on bracket, then tighten screws.

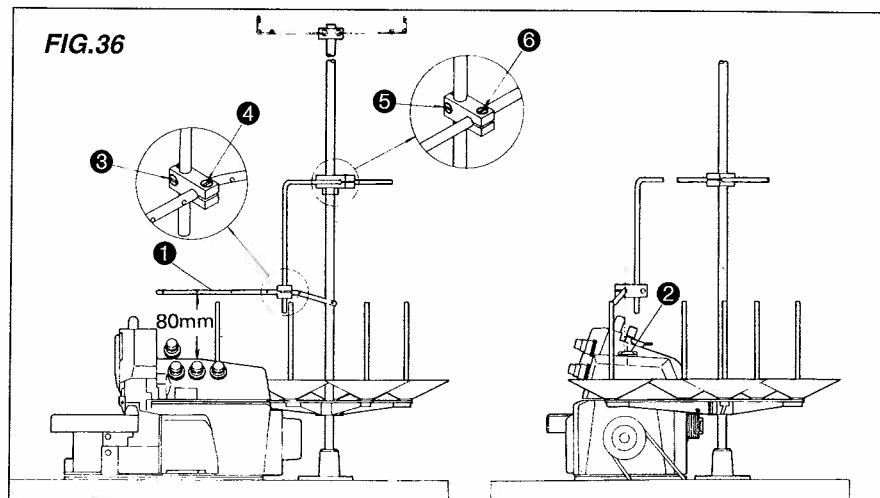
**NEEDLE GUARDS.**

1. Turn handwheel until needles are at their lowest position.
2. Loosen screws ①. Adjust guard ② back and forth until it just touches needle. Tighten screws ①.
3. Loosen screw ③. Turn handwheel until needles are at their lowest position.
4. Adjust guard ④ so there is a space of 0.1- 0.2 mm between needle and guard ④. Tighten screw ③.

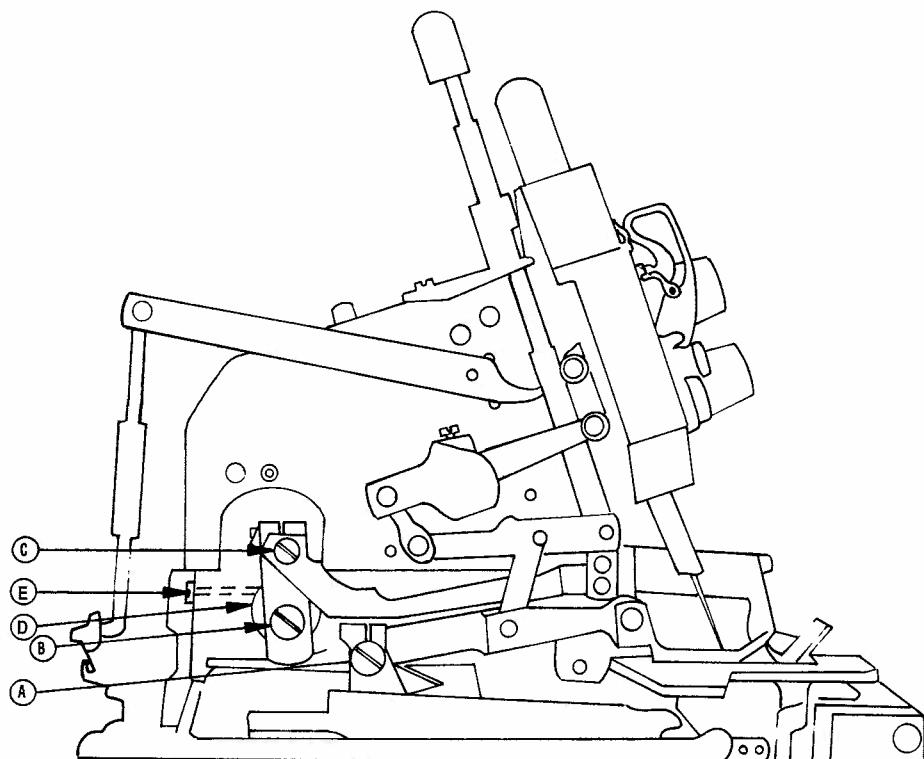
**FIG.34**

**THREAD STAND SETUP**

1. Set thread stand as shown in Fig.36. Loosening screws ③, ④, ⑤, and ⑥, set thread guide bar ① as follows.
2. Obtain the distance of approximately 80 mm between bar ① and machine top cover.
3. Bar ① should be above and a little front of oil sight window ②.
4. Tighten screws ③, ④, ⑤, and ⑥.

**WALKING FOOT ADJUSTMENTS**

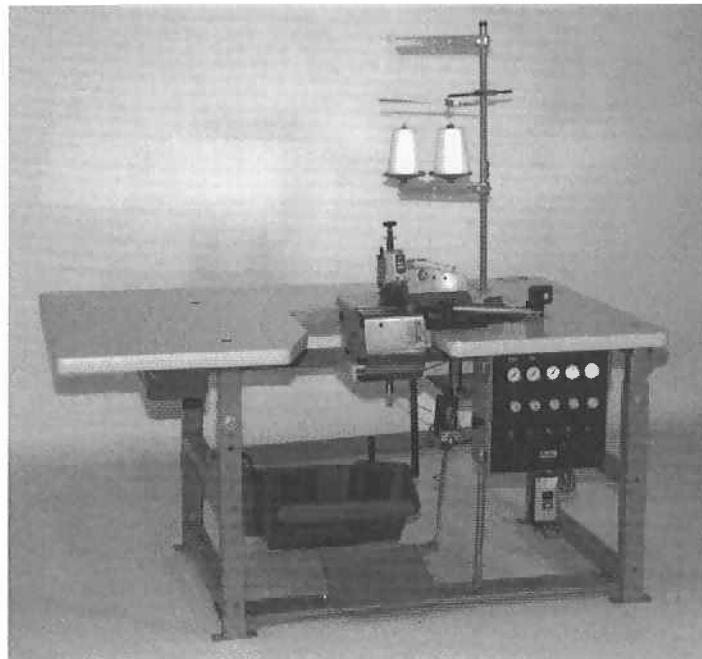
- (A) This eccentric pin adjusts the position of the Walking Foot front to rear. This enables you to align the Walking Foot teeth with the lower feed dog teeth.
  - (B) This screw adjusts the Walking Foot movement in relation to the presser foot. The higher the bracket, the faster the presser foot will meet the needle plate, causing the Walking Foot to raise off the work faster. Lowering the bracket will cause the Walking Foot to raise off the work more slowly.
  - (C) This eccentric pin primarily adjusts the position of the presser foot front to rear.
  - (D) This shaft adjusts the position of the presser foot front to rear. It is used to adjust the clearance between the presser foot and the Walking Foot.
  - (E) This screw holds shaft 'D'. Loosen it to free the shaft.
- Any one of the above adjustments will slightly change one or more of the other adjustments. Take this into consideration when making any one adjustment. Before running the machine, turn it over by hand to check all clearances.



## OPERATION

### **General Description**

Porter's binding machines allow an operator to hem a panel to a border while taping in one operation. Pneumatic feed and control systems and high speed sewing head provide semi-automatic performance.



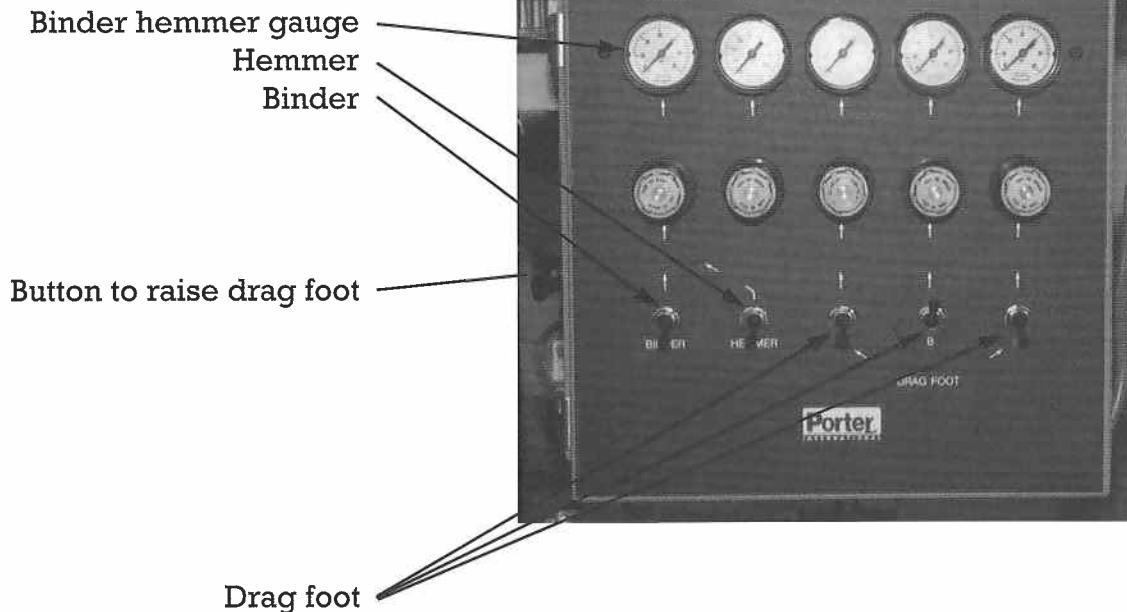
### **Features**

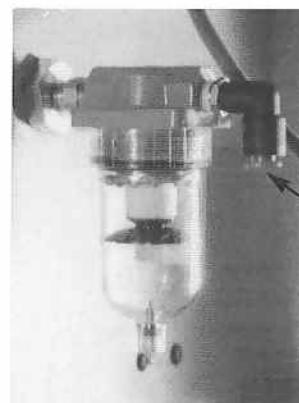
- Pneumatic hemming and border control system.
- Synchronized top feeding unit.
- Needle positioner.
- Edge control warning system.
- Pneumatic foot lift.
- Totally enclosed oiling system.
- High speed sewing head.

### **Benefits**

- Eliminates pre-hemming panels.
- Increases box spring production as much as 60%.
- Panel and closed border are sewn evenly by pneumatic control system and synchronized top feed unit.
- Increase of 25% in sewing machine speed.
- Eliminates need for skilled operator
- Thread savings of 33%.

### **1. Flip down toggle switches on control box**



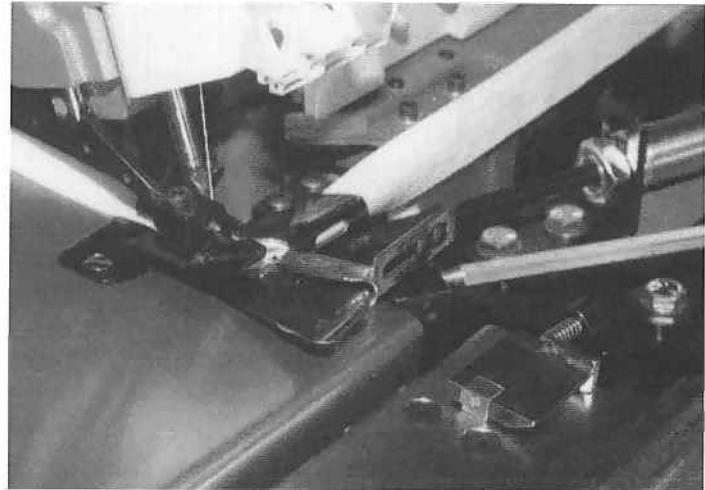
**2. Connect main air**

Attach  
air hose

**3. Insert binding tape**

Make sure it is inserted under presser foot.

\*Note: Push treadle back to lift foot.

**4. Adjust air pressure settings (see photo at left)****A. Main air gauge.**

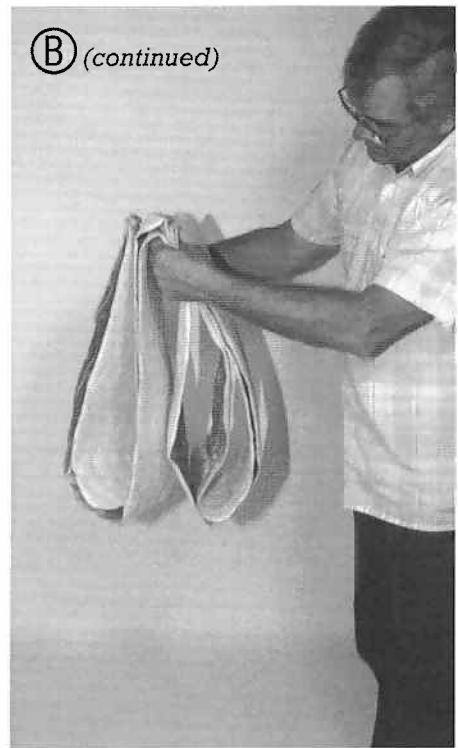
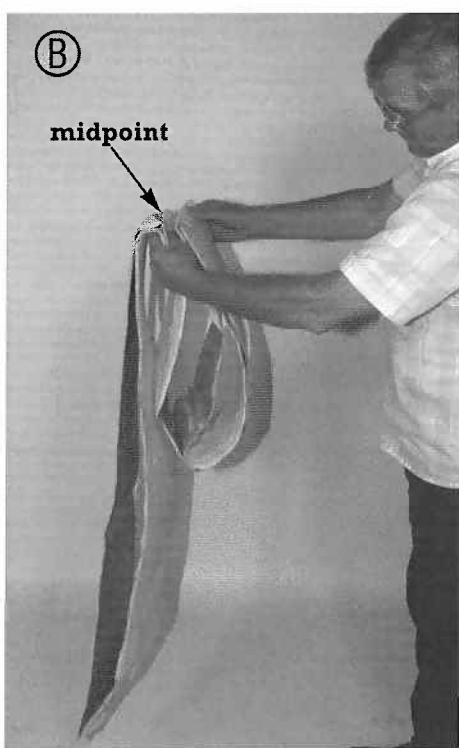
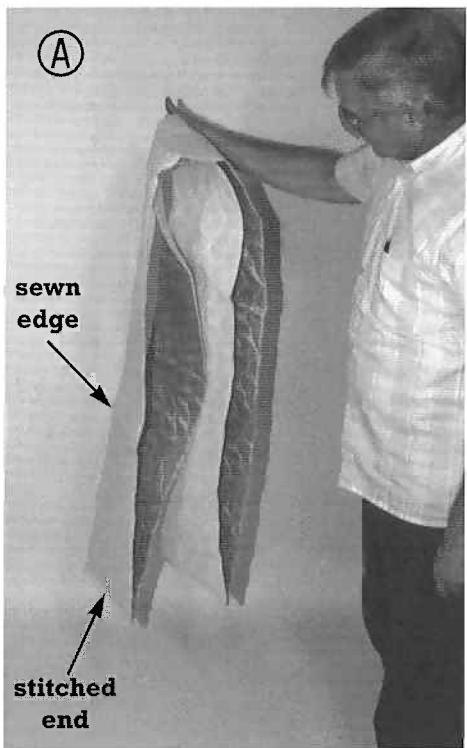
1. Flip up "hemmer" toggle switch.
2. Adjust main air knob to obtain 80-100 PSI of air pressure.
3. Tighten center screw on knob to lock the knob at this position.

**B. Binder hemmer gauge**

1. Flip up "binder" toggle switch.
2. Adjust knob and tighten screw to obtain 30 PSI of air pressure as described below.

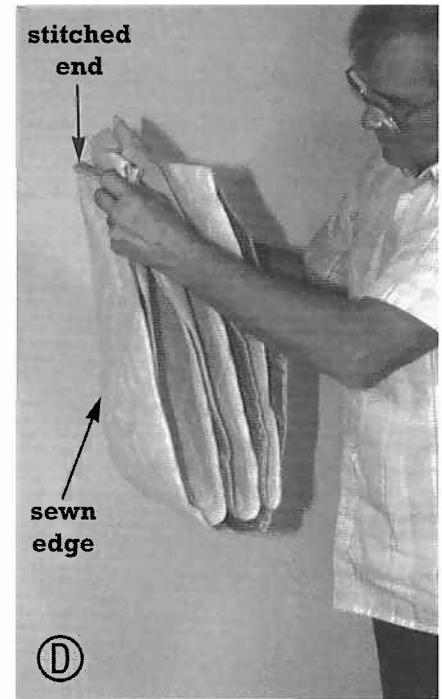
**C. "A, B, C" gauges (These gauges control the air pressure on the drag foot. The three switches toggle three different types of material.)**

1. Flip up respective toggle switches.
2. Adjust knob and tighten screw as described above. Actual settings are determined by the border material used. (See 7 below.)



### 5. Prepare border material

- Ⓐ Hold border at midpoint with stitched end at one end and sewn edge on right.
- Ⓑ Fold ends to front and back of midpoint.
- Ⓒ Drop middle fold and refold to outside away from stitched seam.
- Ⓓ Hold with stitched edge on top and sewn edge on right and place in bucket.



## **6. Load machine**

- A. Slide stitched end of border under drag foot and presser foot up to the edge of the cloth plate.
- B. Press the button on the side of the control box with knee to raise drag foot.
- C. Flip up hemmer toggle. This will lower drag foot and will engage the hemmer.

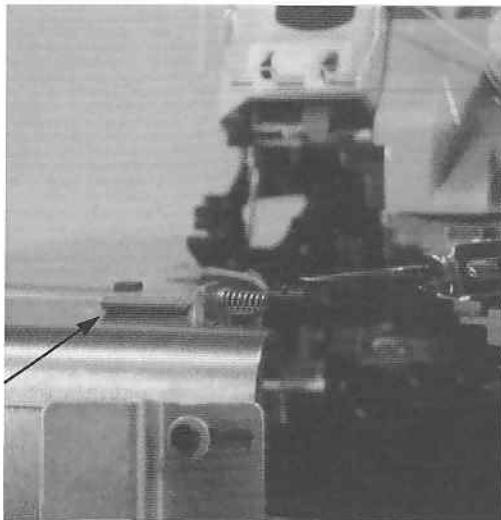


## **7. Setting drag foot pressure**

- A. The three air pressure systems (A, B, and C) on the control box allow the machine to be set up for three different types of border material. (See page 10 for illustration.)
- B. To determine the correct pressure for a specific material:
  1. Initially set the pressure for 20 PSI.
  2. Sew an entire border to a panel.
  3. If the border ends up shorter than the panel, the drag foot is exerting too little pressure. Increase the pressure.
  4. If the border ends up too long, then decrease the air pressure on the drag foot.
  5. Once the pressure is adjusted so that the panel and border come out even, record the pressure settings for that particular material.

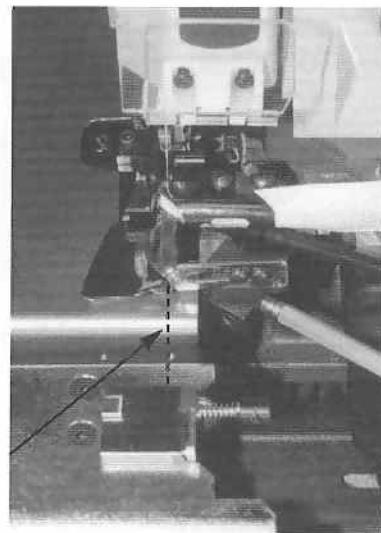
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## **8. Aligning drag foot**



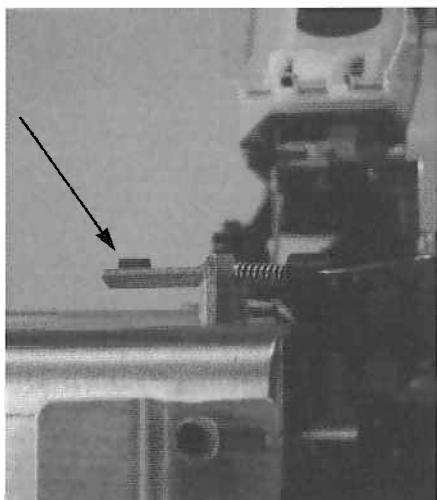
### **A. Vertical positioning**

1. Make sure that the drag foot sits tightly (flush) against the top plate of the tracking device.
2. If a space exists between the bottom of the drag foot and the top plate of the tracking device, check the air cylinder. It may be screwed in too far preventing the full movement of the drag foot. Loosen the air cylinder.



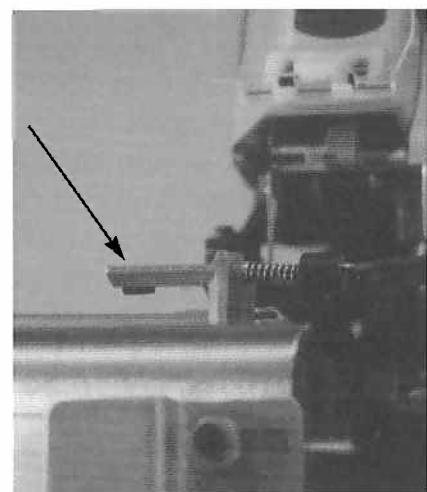
### **B. Horizontal positioning**

1. Inside edge of drag foot must be in line with the inside edge of the mouth of the binder.
2. This is adjusted by loosening the screws which hold on the bracket of the tracking device.



### C. Quilt adjustment

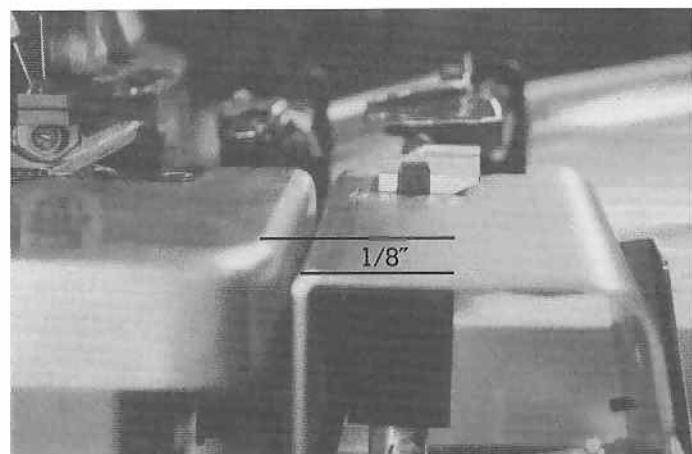
1. For non-quilted borders, the drag foot cam must be positioned as shown at left.
2. For quilted borders, the drag foot cam must be positioned as shown at right.



### 9. Aligning the tracking device

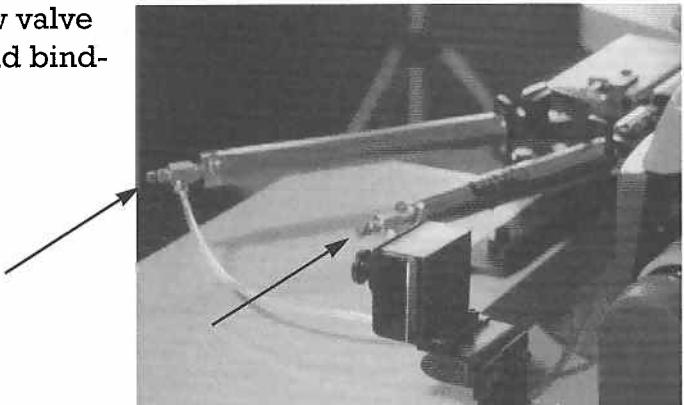
A. The top surface of the tracking device should be  $1/8"$  lower than the top surface of the cloth plate.

1. Find the holes in the front side of the tracking device. The border edge guide must be removed to allow access to the right hand hole.
2. Loosen the screws behind these holes.
3. Adjust the height of the tracking device.
4. Re-tighten the internal screws and replace the edge guide.



### 10. Adjusting the speed of insertion of the hemming and binding device

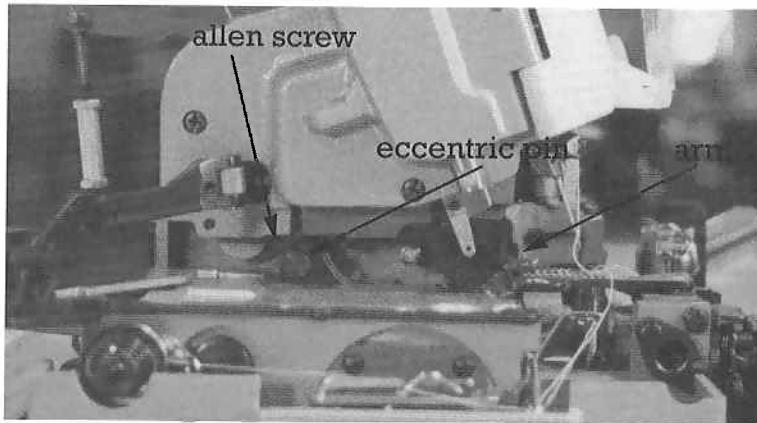
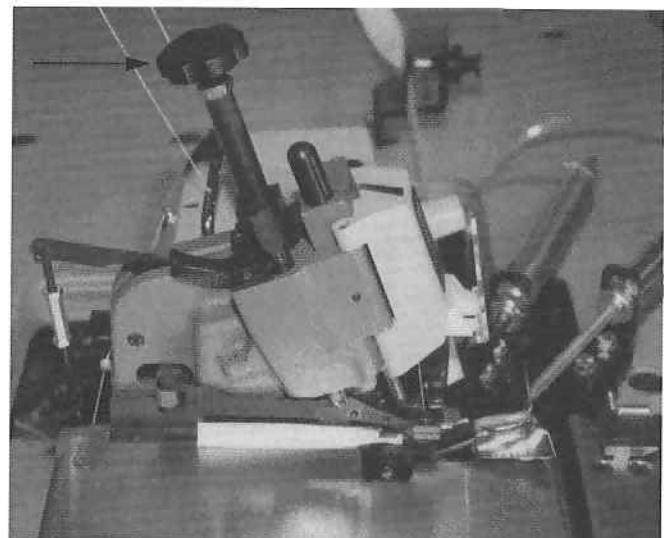
A. The speed of insertion is regulated by the flow valve (small brass knob) at the end of the hemming and binding air cylinders as shown in illustrations.



## ***11. Adjusting the top feed mechanism***

### ***A. Pressure***

1. Tighten the thumb screw at the top of the pressure rod nearly as tightly as possible.
2. The top feed should be exerting maximum or nearly maximum pressure.



### ***B. Teeth Alignment***

The top feed teeth must be aligned to mesh exactly with the teeth of the bottom feed dog. To align the teeth:

1. Loosen the allen screw at the rear of the top feed holder.
2. Turn the eccentric pin with a screw driver to adjust the position of the top feed arm so that the top feed and bottom feed dog teeth mesh.

### ***C. Synchronization:***

The lift must be adjusted so that the movement of the top feed is synchronized with the movement of the bottom feed dog. To adjust lift:

- A. Loosen the two Allen screws on the front of the lifter. Rotate the lifter to either advance or retard the top feed movement. Make sure that you do not shift the lifter sideways.

## ***12. Timing***

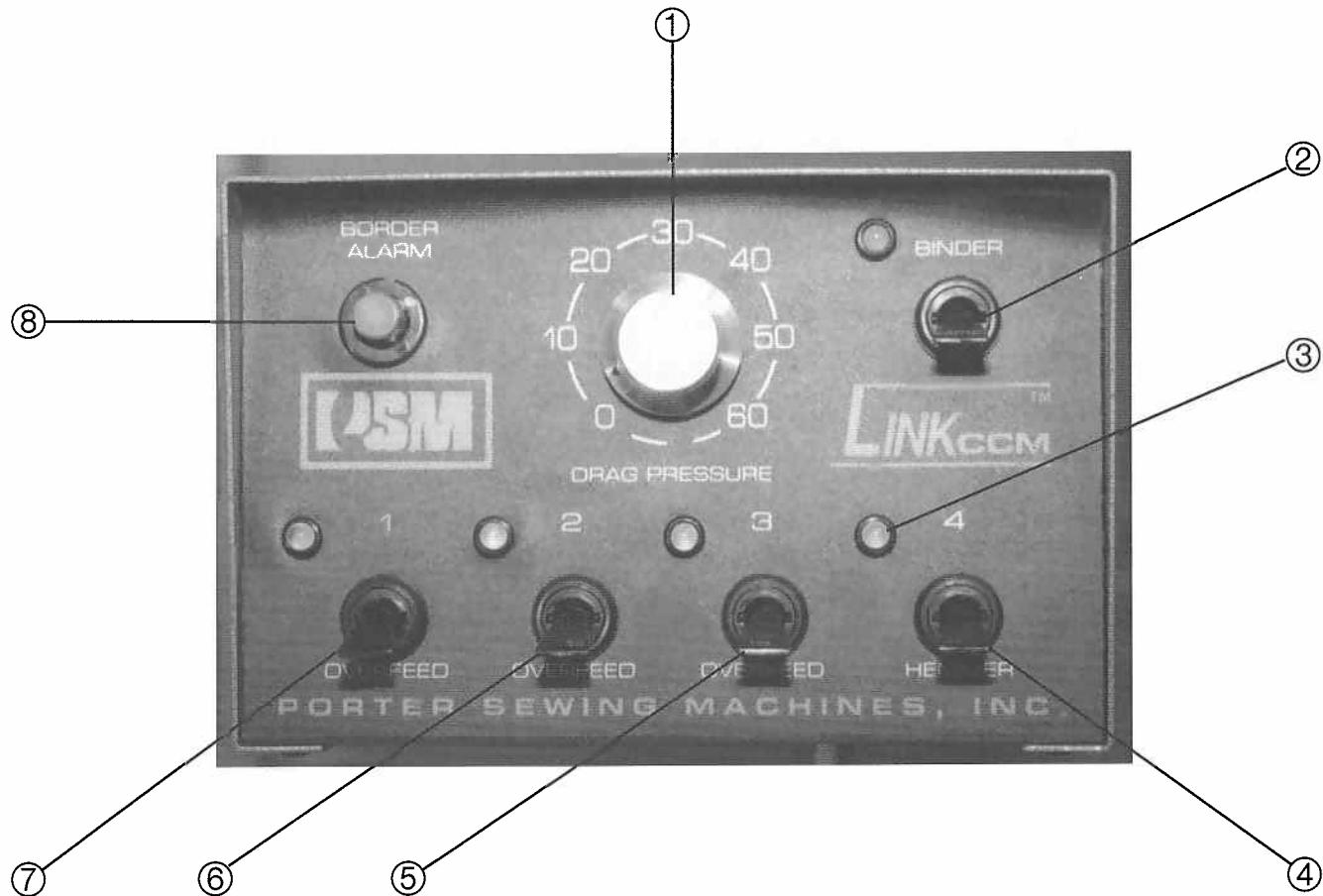
When the chainstitch looper (#620270) is at its extreme left position, the centerline of the chainstitch needle should be 1/16 of an inch from the point of the looper. When the looper point is in the scarf of the needle, the needle should clear the looper 0 to .1 millimeters.

## ***13. Needle height***

When the needle is at its highest position, the distance between the top of the needle plate and the point of the needle should be 11/32 of an inch, or 8.5 millimeters.

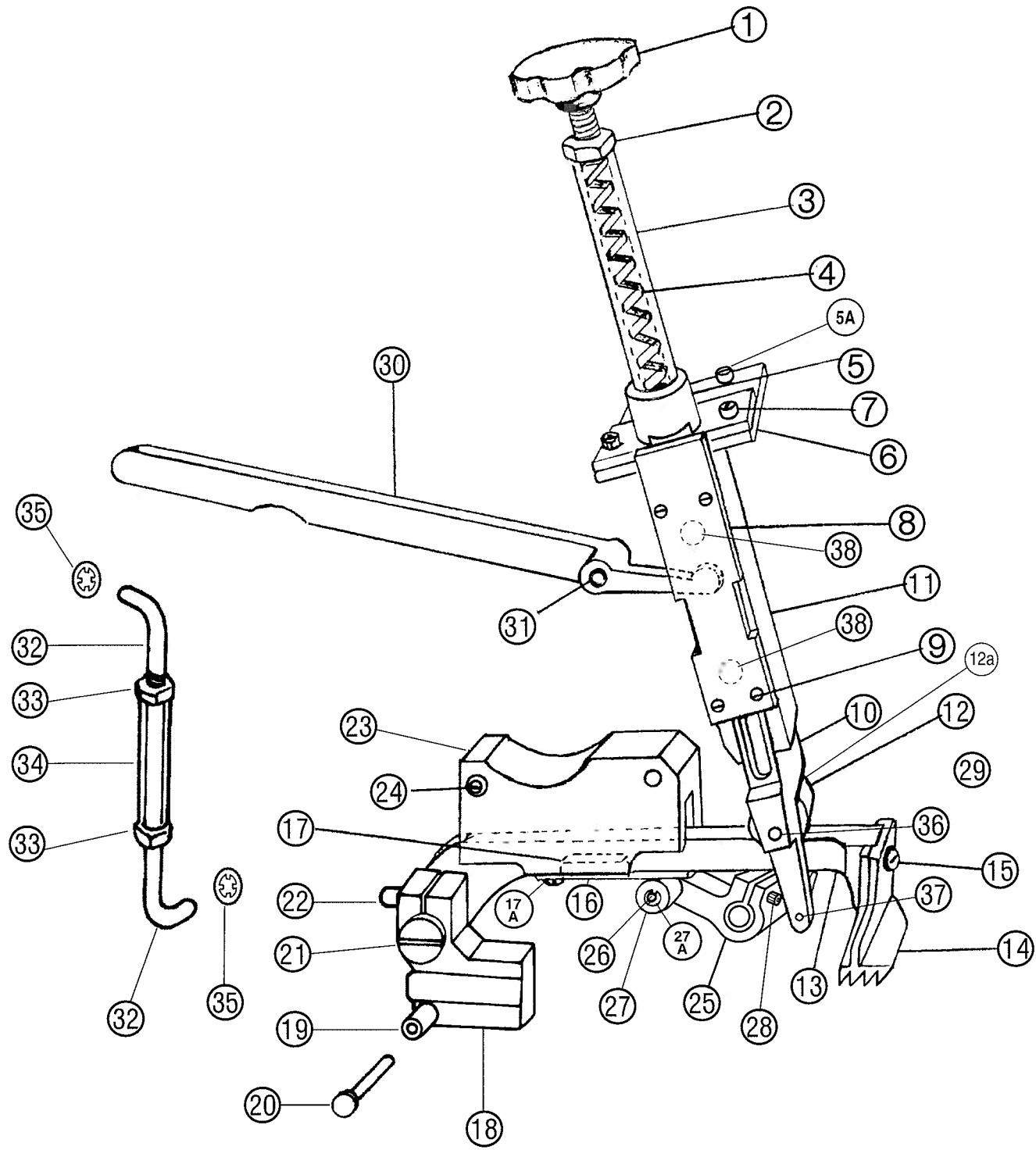
#### 14. Overfeed Control Box (CB-100 & 401-600)

- ① Drag foot pressure control.
- ② Toggle for moving binder in or out.
- ③ Lights to indicate when components are in use..
- ④ Toggle for moving hemmer or guide in or out.
- ⑤ ⑥ ⑦ Toggles for overfeed: As each toggle is engaged, the differential feed is increased by one-third. Amount of overfeed required varies according to border material.
- ⑧ Warning light to show when drag foot is *not* engaged.



**PARTS DIAGRAMS**



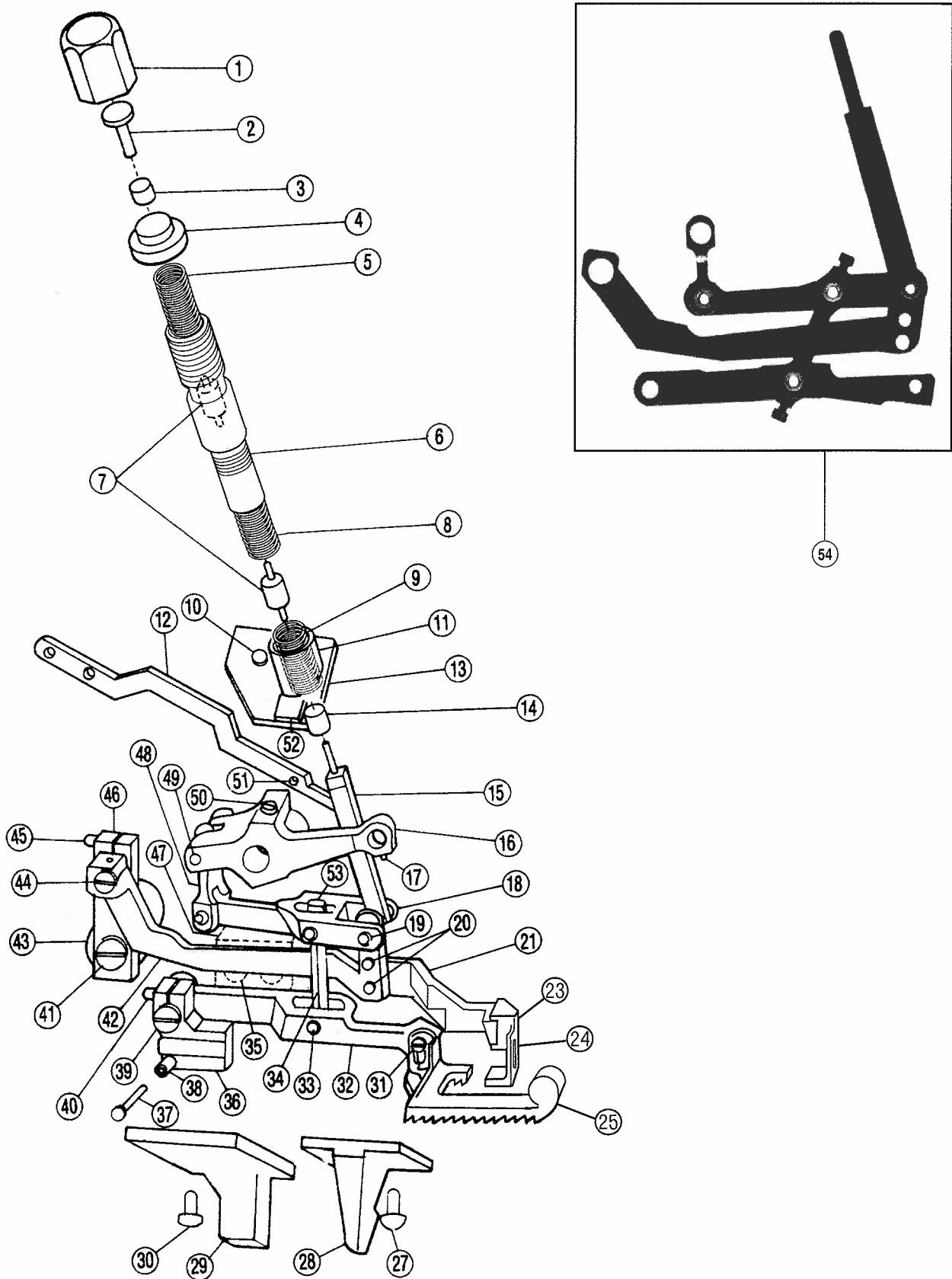
**BS 401 TOP FEED MECHANISM (BS 401-100, 300, & CB-100)**

**BS 401 TOP FEED MECHANISM (BS 401-100, 300, & CB-100)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....650000 .....	THUMSCREW .....	1		18.....630117 .....	TOP FEED HOLDER .....	1	
2.....650001 .....	NUT .....	1		19.....630147 .....	TOP FEED HOLDER BUSHING .....	1	
3.....650003 .....	SPRING GUIDE SLEEVE .....	1		20.....SHCS 8-32x3/4 ....	SCREW .....	1	
4.....650002 .....	PRESSURE SPRING .....	1		21.....630155 .....	ECCENTRIC STUD .....	1	
5.....650004 .....	FLANGE .....	1		22.....SHCS 4-40x3/8 ....	SCREW .....	1	
5A.....SHCS 8-32x1/2 ....	SCREW .....	2		23.....650016 .....	GUIDE BLOCK .....	1	
6.....650005 .....	FLANGE BASE .....	1		24.....SHCS 8-32x5/8 ....	SCREW .....	1	
7.....SHCS 8-32x1/4 ....	SCREW .....	2		25.....650048 .....	LIFTER ASSY .....	1	
8.....650006 .....	PRESSURE BAR COVER .....	1		26.....650018 .....	LIFTER PIN .....	1	
9.....610940 .....	SCREW .....	4		27.....650019 .....	LIFTER ROLLER .....	1	
10.....650007 .....	PRESSURE BAR ASSY .....	1		27A.....5560-18 .....	RETAINER .....	1	
11.....650008 .....	PRESSURE BAR GUIDE BLOCK .....	1		28.....SHCS 6-32X3/8....	SCREW .....	2	
12.....650009 .....	PRESSURE ROLLER .....	1		30.....650020 .....	AUX-LIFTER ARM .....	1	
12A.....5133-12 .....	RETAINER (not shown) .....	1		31.....DP 3/16x7/8 .....	AUX-LIFTER ARM PIN .....	1	
13A.....650054 .....	TOP FEED MAIN SECTION ASSY COMP .....	1		32.....620144 .....	CONNECTOR .....	2	
13.....650010 .....	TOP FEED MAIN SECTION .....	1		33.....HN8-32 .....	NUT .....	2	
14.....650011 .....	TOP FEED FOOT .....	1		34.....620102 .....	KEYSTONE CONNECTOR .....	1	
15.....618420 .....	SCREW .....	1		35.....5115-15 .....	RETAINER .....	2	
16.....650012 .....	WEAR STRIP .....	1		36.....650047 .....	PRESSURE ROLLER PIN .....	1	
17.....650013 .....	WEAR STRIP CUSHION .....	1		37.....EXP.PN 1/16x3/16.EXPANSION PIN .....	1		
17A.....610100 .....	SCREW .....	1		38.....FHMS 10-32x1/2 ...	SCREW .....	2	

13A

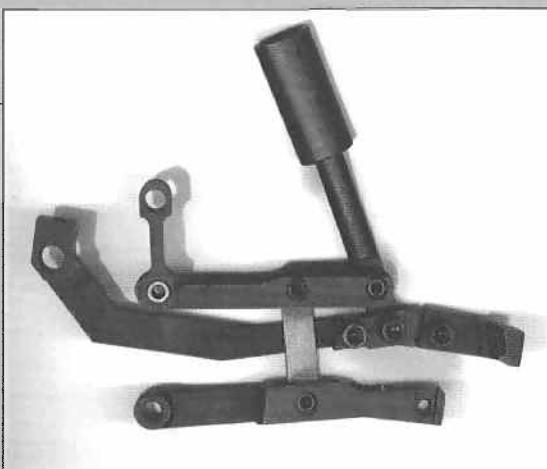
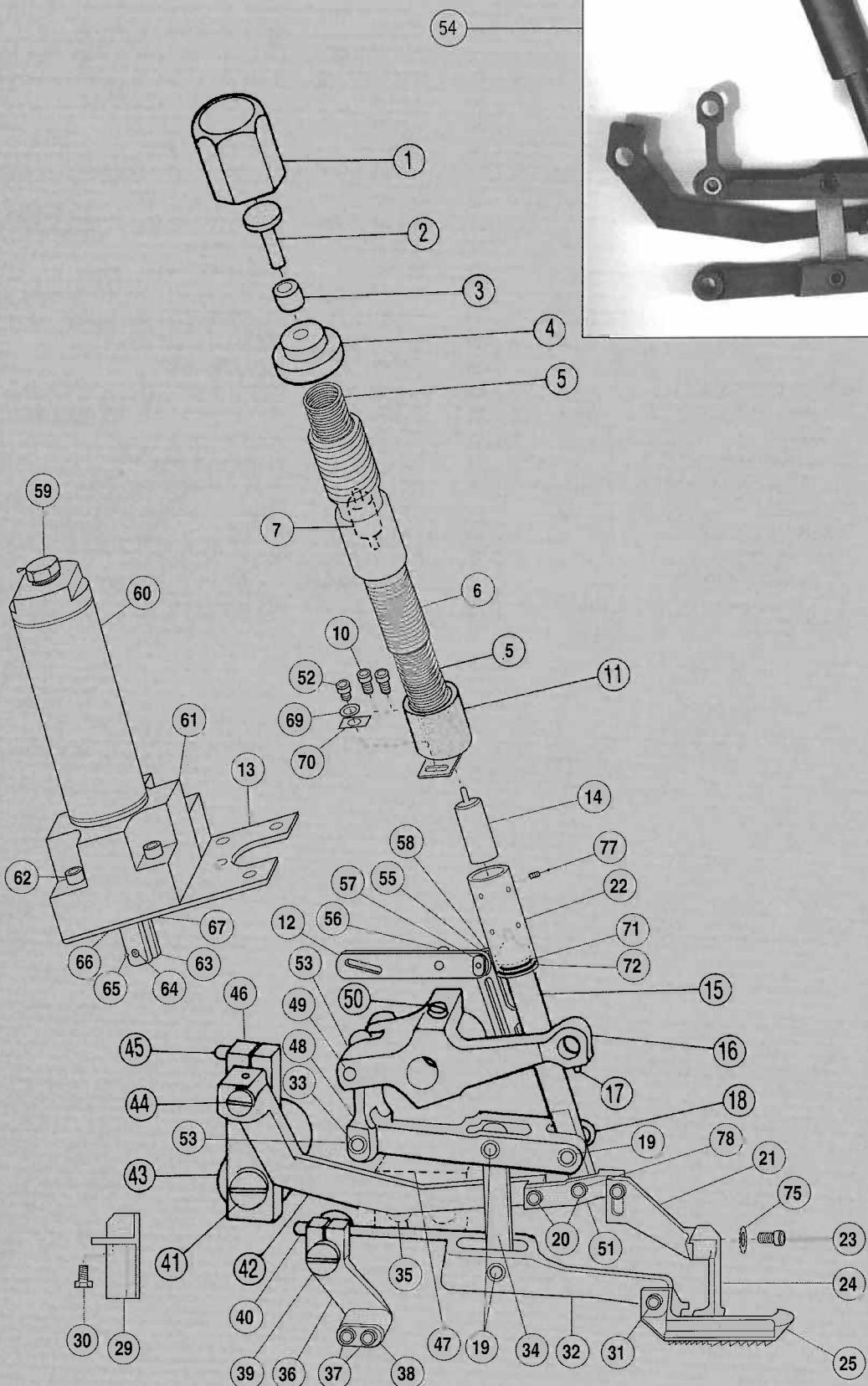
**WALKING FOOT MECHANISM (BS 401-500)**  
**(BS 401-600 on page 22)**



**WALKING FOOT MECHANISM (BS 401-500)**

(BS 401-600 on page 22)

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	630300	ACORN NUT.....	1	29	630142	RETAINING BLOCK (GEAR).....	1
2	630301	ADAPTER .....	1	30	BHCS10-32X3/8 ..	BUTTON HEAD CAP SCREW 10-32X3/8.....1	
3	630302	PRELOAD SPACER .....	1	31	SHCS8-32X3/8 ..	SOCKET HEAD CAP SCREW 8-32X3/8.....1	
4	630303	CHECK NUT .....	1	32	630145 .....	TOP FEED MAIN SECTION .....	1
5	630304	WHITE SPRING.....	1	33	620175 .....	PIVOT PIN .....	1
6	630305	HOUSING PRESSURE SPRING.....	1	34	620177 .....	TOP FEED CONNECTOR LINK .....	1
7	630306	SPACER.....	2	35	SHCS8-32X1/2 .....	SOCKET HEAD CAP SCREW 8-32X1/2.....1	
8	630304	WHITE SPRING.....	1	36	640028 .....	TOP FEED HOLDER .....	1
9	630304	WHITE SPRING.....	1	37	SHCS8-32X3/4 .....	SOCKET HEAD CAP SCREW 8-32X3/4.....1	
10	SHCS8-32X1/2 .....	SOCKET HEAD CAP SCREW 8-32X1/4 .....	1	38	630147 .....	LONG BUSHING.....	1
11	630307	PRESSURE SPRING BASE .....	1	39	650055 .....	ECCENTRIC PIN .....	1
12	630152	AUXILIARY LIFTER ARM .....	1	40	SHCS4-40X3/8 .....	SOCKET HEAD CAP SCREW 4-40X3/8.....1	
13	630308	PRESSURE SPRING MOUNTING BLOCK.....1		41	PHMS1/4-28X3/4..PAN HEAD MACHINE SCREW 1/4-28X3/4 ..	2	
14	630310	BOTTOM SPACER .....	1	42	630144 .....	PRESSER FOOT ARM .....	1
15	630134	PRESSER BAR.....	1	43	620163 .....	LOCATING STUD .....	1
16	630136	NEEDLE DRIVE ARM .....	1	44	620134 .....	ECCENTRIC STUD .....	1
17	619400	SCREW.....	2	45	SHCS6-32X1 .....	SOCKET HEAD CAP SCREW 6-32X1 .....	1
18	630140	W.F. BEAM .....	1	46	620165 .....	LOCATING BAR.....	1
19	620150	LONG PIVOT PIN .....	2	47	620168 .....	RUBBING BLOCK.....	1
20	SHCS5-40X3/8 .....	SOCKET HEAD CAP SCREW 5-40X3/8 .....	2	48	620135 .....	BEAM CONNECTOR LINK .....	1
21	650057	PRESSER FOOT EXTENSION .....	1	49	630138 .....	CONNECTOR LINK PIVOT PIN .....	1
23	SHCS5-40X3/8 .....	SCREW (NOT SHOWN) .....	1	50	611620 .....	SCREW .....	1
24	650056	PRESSER FOOT .....	1	51	DP3/16X3/4 .....	DOWEL PIN 3/16X3/4.....1	
25	650058	T.F. WALKING FOOT .....	1	52	SHCS8-32X1/8 .....	SOCKET HEAD CAP SCREW 8-32X1/8.....1	
27	BHS10-32X3/8 .....	BUTTON HEAD CAP SCREW 10-32X3/8 .....	1	53	HLSS4-40X5/64....	HOLLOW LOCK SET SCREW 4-40X5/64.....7	
28	620126	FRONT GUIDE BLOCK-TF ARM.....1		54	630153 .....	LINKAGE ASSEMBLY.....1	

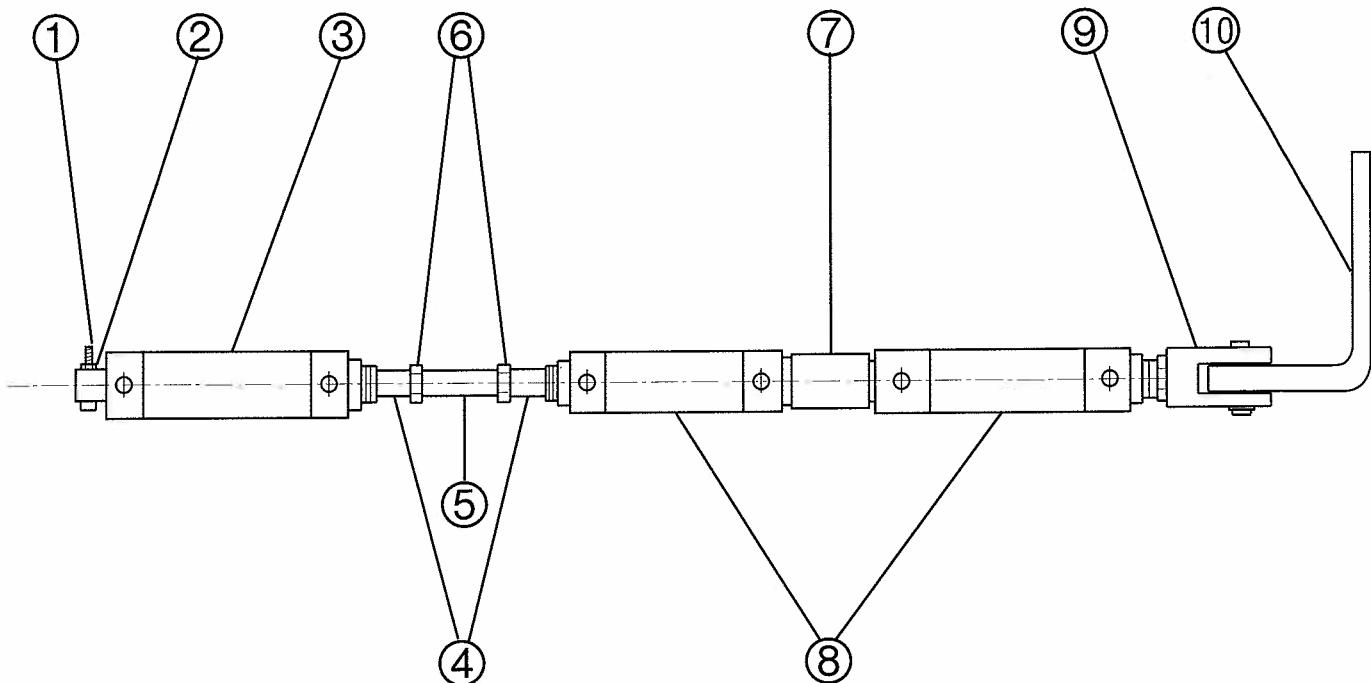
**WALKING FOOT MECHANISM (BS 401-600)**

## WALKING FOOT MECHANISM (BS 401-600)

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	630300	ACORN NUT .....	1	42	670018	PRESSER FOOT ARM.....	1
2	630301	ADAPTER .....	1	43	620163	LOCATING STUD.....	1
3	660040	PRELOAD SPACER.....	1	44	620134	ECCENTRIC STUD.....	1
4	.630303	CHECK NUT .....	1	45	SHCS 6-32X1	SOCKET HEAD CAP SCREW .....	1
5	630312	WHITE SPRING .....	2	46	620165	LOCATING BAR.....	1
6	670063	HOUSING PRESSURE SPRING .....	1	47	620168	RUBBING BLOCK.....	1
7	630306	SPACER .....	1	48	670011	BEAM CONNECTOR LINK .....	1
10	SHCS 8-32X1/4	SOCKET HEAD CAP SCREW .....	1	49	630138	CONNECTOR LINK PIVOT PIN.....	1
11	.660027	PRESSURE SPRING BASE .....	1	50	611620	SCREW .....	1
12	.670029	BEAM, LIFTER .....	1	51	670611	CONNECTOR .....	1
13	.660028	PRESSURE SPRING MOUNTING BLOCK ..	1	52	SHCS 8-32X1/8	SOCKET HEAD CAP SCREW .....	1
14	.670062	SPRING GUIDE .....	1	53	HLSS 4-40X5/64	HOLLOW LOCK SET SCREW .....	2
15	.670061	PRESSER BAR .....	1	54	670070	LINKAGE ASSY .....	1
16	.670041	NEEDLE DRIVE ARM .....	1	55	FHCS 8-32X3/8	SCREW .....	1
17	.619400	SCREW .....	2	56	.660032	SPACER .....	1
18	.670028	W.F. BEAM .....	1	57	.660035	RETAINER .....	1
19	.670038	PIVOT PIN .....	3	58	670030	SLIDE, LIFTER .....	1
20	SHCS 8-32X3/8	SOCKET HEAD CAP SCREW .....	3	59	MPAL-8016	FITTING .....	1
21	.670607	PRESSER FOOT EXTENSION .....	1	60	.091	AIR CYLINDER .....	1
22	.670060	BARRELL .....	1	61	.660029	SPACER, AIR CYL .....	1
23	SHCS 8-32X3/8	SCREW .....	2	62	SHCS 8-32X5/8	SCREWS .....	4
24	.650056	PRESSER FOOT .....	1	63	.660030	YOKE .....	1
25	.670601	TOP FEED .....	1	64	.660031	PIN .....	1
29	.670056	COVER GUIDE .....	1	65	SC7-5	SET SCREW .....	1
30	HHB 1/4-20X1/2	HEX HEAD BOLT .....	1	66	HN 5/16-24	NUT, (NOT SHOWN) .....	1
31	SHCS 8-32X3/8	SOCKET HEAD CAP SCREW .....	1	67	.660033	CYL. MTG. NUT, (NOT SHOWN) .....	1
32	.670032	TOP FEED MAIN SECTION .....	1	69	SLW#8	WASHER .....	1
33	.620175	PIVOT PIN .....	1	70	.660034	SPACER .....	2
34	.670017	TOP FEED CONNECTOR LINK .....	1	71	.2-012	O-RING .....	1
35	SHCS 8-32X	SOCKET HEAD CAP SCREW .....	1	72	.2-013	O-RING .....	1
36	.670602	TOP FEED HOLDER .....	1	73	.670039	BUSHING, PRESSER BAR .....	1
37	SHCS 8-32X3/4	SOCKET HEAD CAP SCREW .....	1	75	SW#8	STAR WASHER .....	2
38	.630147	RETAINER .....	1	76	SLW#8	WASHER .....	2
39	.670068	ECCENTRIC PIN .....	1	77	HLSS 4-40X5/64	SET SCREW .....	1
40	SHCS 4-40X3/8	SOCKET HEAD CAP SCREW .....	1	78	.670039	FERRULE (NOT SHOWN) .....	1
41	PHMS 1/4-28X3/4	PAN HEAD MACHINE SCREW .....	2				

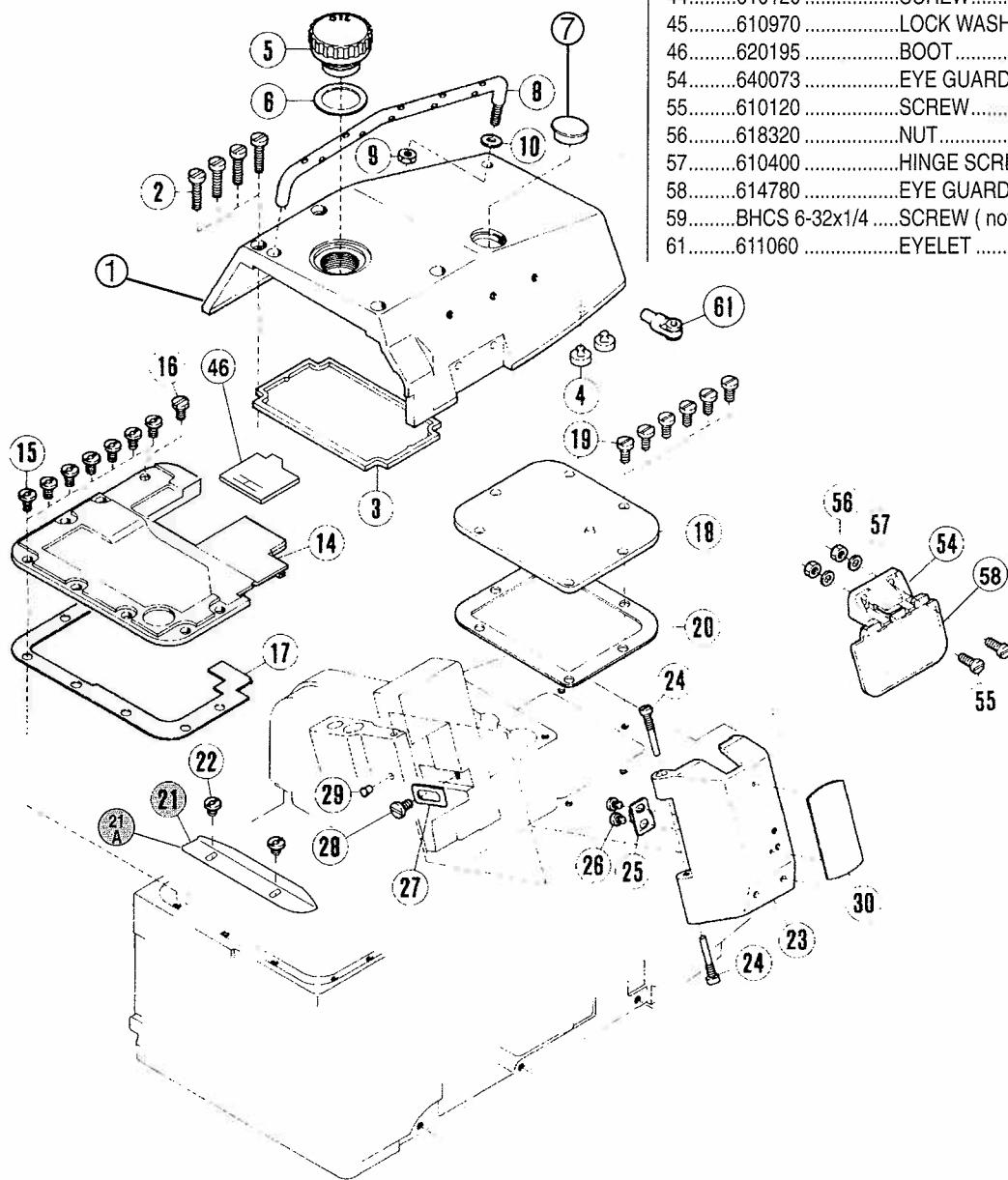
## OVERFEED MECHANISM (CB-100 &amp; BS 401-600)

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....SHCS8-32X3/4.....SOCKET HEAD CAP SCREW.....	1	6.....HN10-32.....HEX NUT .....	3				
2.....HN8-32.....HEX NUT .....	1	7.....SMA-4 .....	1				
3.....SMA-2 .....	1	8.....020.5-DXP .....	2				
4.....SMA-12 .....	2	9.....D-850 .....	1				
5.....HS10-32X1 (IT) .....	1	10.....SMA-5 .....	1				
.....HEX SPACER (INTERNAL THREAD) .....		BRACKET .....					

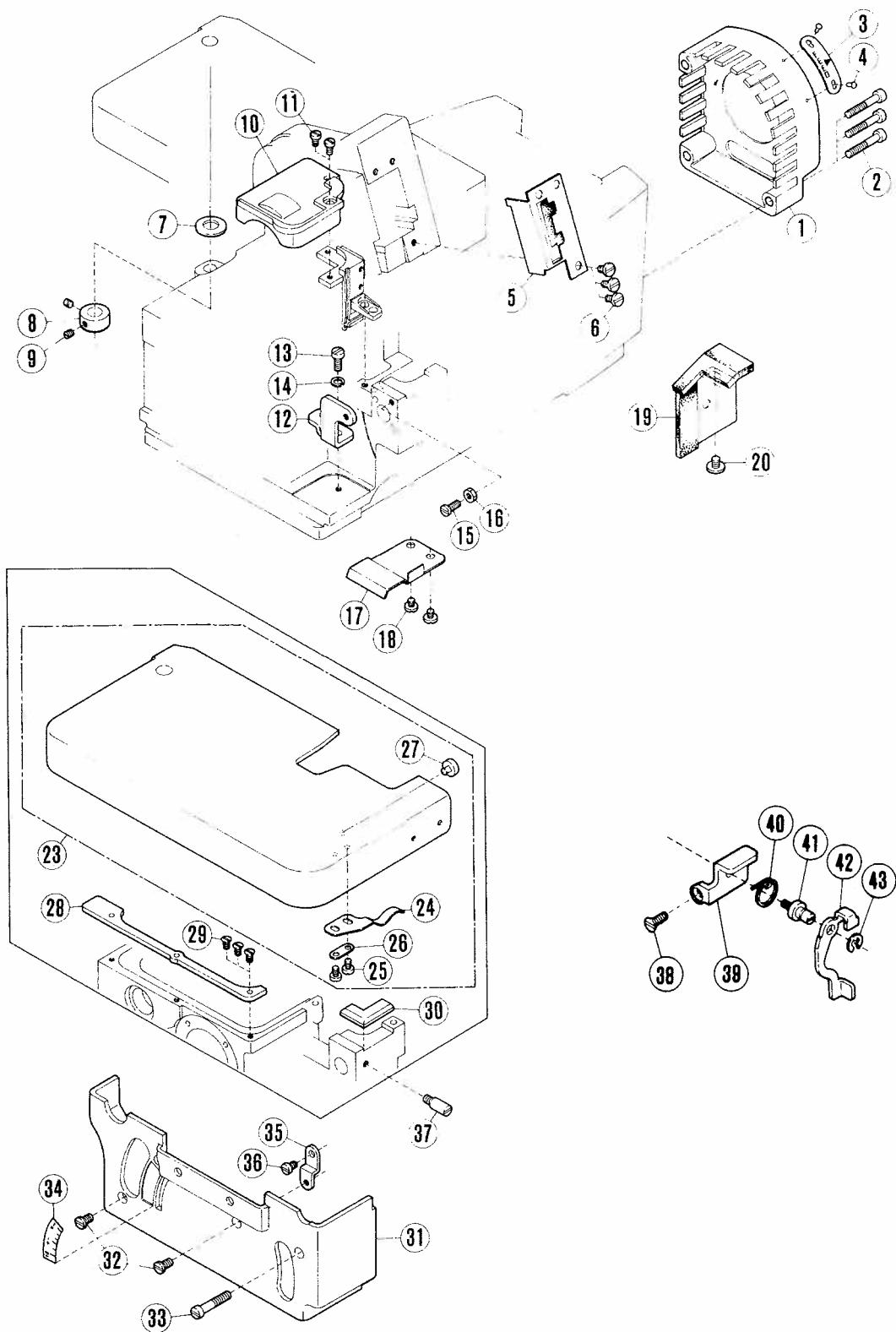


## 1) MISCELLANEOUS COVERS

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	615860 .....	TOP COVER .....	1	19.....	618740 .....	SCREW .....	6
2.....	618980 .....	SCREW .....	4	20.....	616120 .....	GASKET .....	1
3.....	616800 .....	GASKET .....	1	21.....	650035 .....	FABRIC GUARD (401-100 & 300) .....	1
4.....	616820 .....	CUSHION .....	2	21A.....	620202 .....	FABRIC GUARD (401-500, 600 & CB 100) .....	1
5.....	614820 .....	OIL SPLASH SIGHT WINDOW .....	1	22.....	PHMS 6-32x1/8 .....	SCREW .....	2
6.....	614840 .....	O-RING .....	1	23.....	614940 .....	NEEDLE BAR COVER .....	1
7.....	616060 .....	PLUG .....	1	24.....	611820 .....	HINGE PIN .....	2
8.....	640001 .....	THREAD GUIDE BAR .....	1	25.....	611860 .....	LOCK SPRING .....	1
9.....	618280 .....	NUT .....	1	26.....	610220 .....	LOCK SPRING SCREW .....	2
10.....	610780 .....	WASHER .....	1	27.....	613530 .....	LOCK SPRING LATCH .....	1
14.....	640003 .....	BEDPLATE .....	1	28.....	618340 .....	SCREW .....	1
15.....	618340 .....	SCREW .....	7	29.....	610680 .....	CUSHION RUBBER .....	1
16.....	640002 .....	SCREW .....	1	30.....	617270 .....	NAME PLATE .....	1
17.....	616540 .....	GASKET .....	1	32.....	610120 .....	SCREW .....	2
18.....	616100 .....	BED COVER PLATE RIGHT .....	1	33.....	640005 .....	LOCK WASHER .....	2
				44.....	610120 .....	SCREW .....	2
				45.....	610970 .....	LOCK WASHER .....	2
				46.....	620195 .....	BOOT .....	1
				54.....	640073 .....	EYE GUARD BRACKET W/PIN .....	1
				55.....	610120 .....	SCREW .....	2
				56.....	618320 .....	NUT .....	2
				57.....	610400 .....	HINGE SCREW WASHER .....	2
				58.....	614780 .....	EYE GUARD .....	1
				59.....	BHCS 6-32x1/4 .....	SCREW (not shown) .....	1
				61.....	611060 .....	EYELET .....	3



## 2) MISCELLANEOUS COVERS

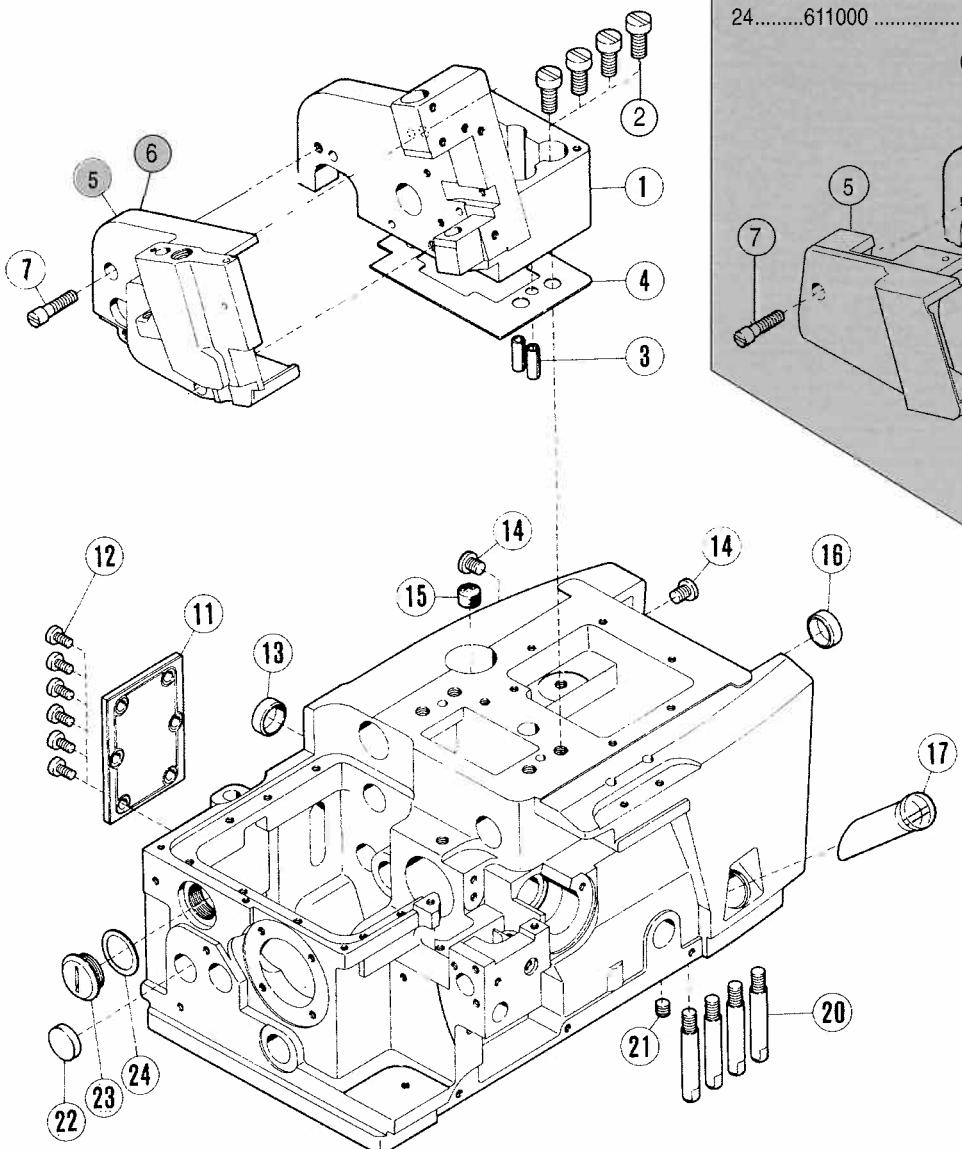


**2) MISCELLANEOUS COVERS**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	613960	OIL COOLER COVER	.1	24	613520	LOCK SPRING	.1
2	618660	SCREW	.1	25	610200	LOCK SPRING SCREW	.2
3	613940	STITCH INDICATOR	.1	26	610900	LOCK SPRING SCREW WASHER	.1
4	614500	RIVET	.2	27	616820	CUSHION	.1
5	616640	FACE PLATE	.1	28	613540	CUSHION RUBBER LEFT	.1
6	618340	SCREW	.3	29	618400	SCREW	.3
7	611760	WASHER	.1	30	613560	CUSHION RUBBER FRONT	.1
8	611260	THRUST COLLAR	.1	31	614420	MACHINE COVER LEFT	.1
9	610420	SET SCREW	.2	32	618640	SCREW	.2
10	640007	FEED ECC. COVER	.1	33	619060	LONG SCREW	.1
11	619520	SCREW	.2	34	616080	INDICATION PLATE	.1
12	614440	SPACER	.1	35	614430	SPACER	.1
13	618120	SPACER SCREW	.1	36	618720	SCREW	.1
14	611640	SPACER SCREW WASHER	.1	37	619180	STOP SCREW	.1
15	619800	STOP SCREW	.1	38	610560	SCREW	.1
16	618280	STOP SCREW WASHER	.1	39	650049	STOPPER	.1
17	640008	FEED BAR COVER	.1	40	650050	SPRING	.1
18	618140	SCREW	.2	41	650051	PIN	.1
19	617145	R. LOOPER LVR. OIL SHIELD	.1	42	650052	LEVER	.1
20	618940	SCREW	.1	43	650053	RING	.1
23	656059	CLOTH COVER COMPLETE	.1				

**MACHINE BED FRAME**

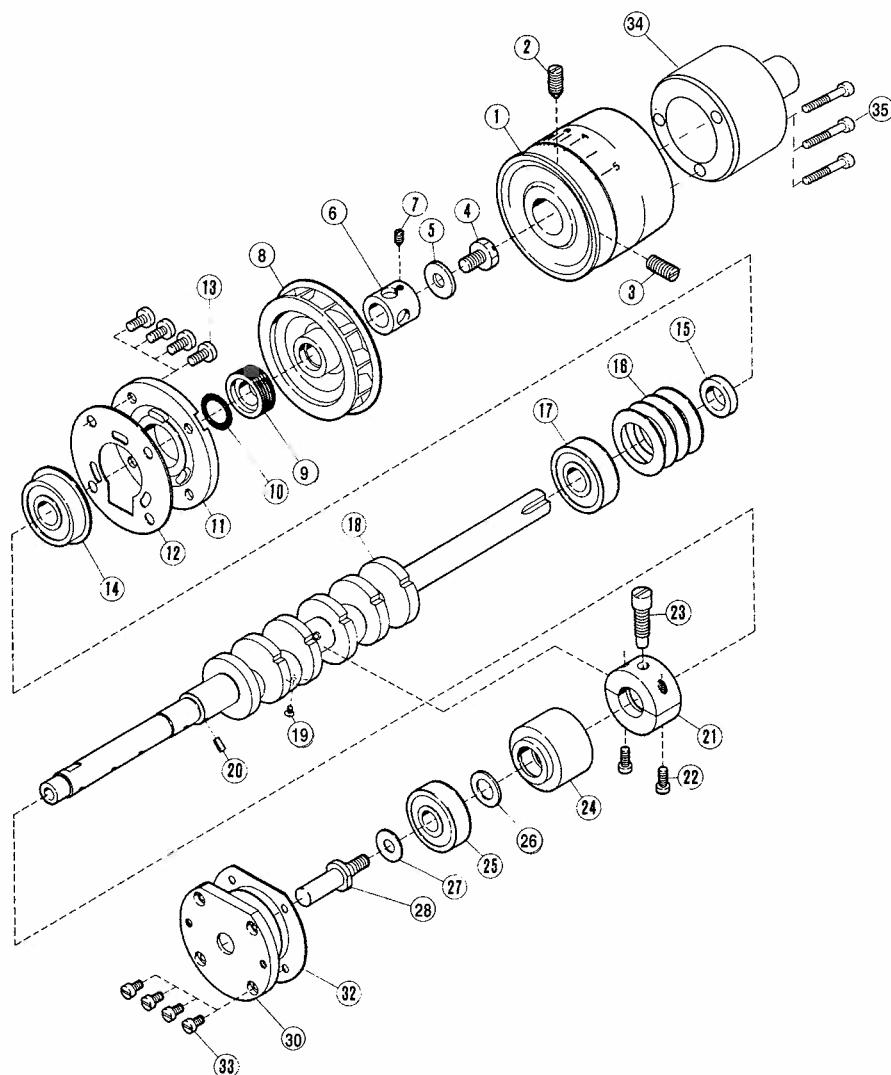
Ref #	Part #	Description	Qty
1.....	617140	MACHINE ARM (RIGHT)	1
2.....	618500	SCREW	4
3.....	610980	PIN	2
4.....	613580	GASKET	1
5.....	650060	SIDE COVER-LEFT (401-100, 300, & CB 100)	1
6.....	650061	SIDE COVER-LEFT (401-500)	1
7.....	619000	SCREW	1
11....	617380	COVER PLATE	1
12....	619840	SCREW	6
13....	614360	PLUG	1
14....	619540	SCREW	2
15....	614280	OIL FILTER	1
16....	614360	PLUG	1
17....	612000	OIL SIGHT GAUGE	1
20....	612020	BED PIN	4
21....	611680	SCREW	1
22....	617360	PLUG	1
23....	619040	SCREW	1
24....	611000	WASHER	11



<b>BS 401-600 ONLY</b>			
Ref #	Part #	Description	Qty
1.....	670059	UPPER CASTING	1
2.....	SHCS 1/4-28X1/2...SCREW		4
3.....	610980	PIN	2
4.....	613580	GASKET	2
5.....	660049	SIDE COVER (LEFT)	1
6.....	670050	LOWER CASTING	1
7.....	619000	SCREW	1
8.....	670009	WEDGE	1
9.....	FHSCS 1/4-28X1/2...SCREWS		.3
11....	617380	COVER PLATE	1
12....	619840	SCREW	6
13....	614360	PLUG	1
14....	619540	SCREW	2
15....	614280	OIL FILTER	1
16....	614360	PLUG	1
17....	612000	OIL SIGHT GAUGE	1
20....	612020	BED PIN	4
21....	611680	SCREW	1
22....	617360	PLUG	1
23....	619040	SCREW	1
24....	611000	WASHER	1

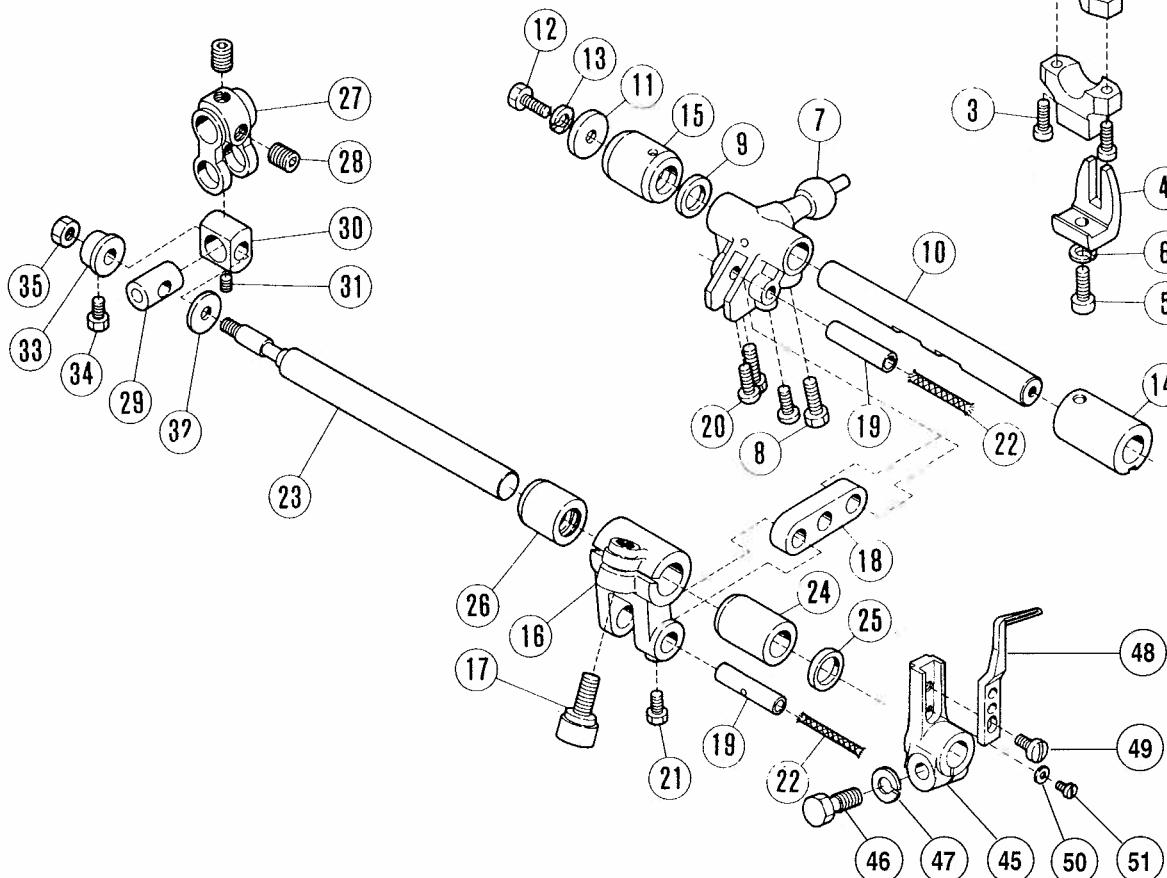
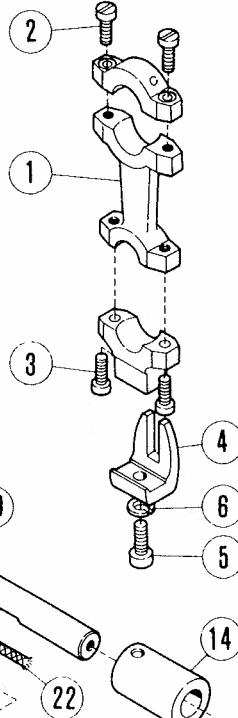
## CRANKSHAFT MECHANISM

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	.612220	PULLEY .....	1	18.....	.616140	CRANKSHAFT .....	1
2.....	.618520	SCREW .....	1	19.....	.620013	SCREW .....	1
3.....	.618540	SCREW .....	1	20.....	.611580	OIL FELT .....	1
4.....	.620012	SCREW .....	1	21.....	.612080	BUSHING (CENTER) .....	1
5.....	.612200	WASHER .....	1	22.....	.610040	SCREW .....	2
6.....	.612240	COLLAR .....	1	23.....	.619300	SCREW .....	1
7.....	.619340	SCREW .....	1	24.....	.612060	BUSHING (LARGE) .....	1
8.....	.613500	COOLING FAN .....	1	25.....	.612040	BALL BEARING .....	1
9.....	.616770	OIL SEAL COLLAR .....	1	26.....	.640006	THRUST WASHER .....	1
10.....	.615540	"O" RING .....	1	27.....	.613840	WASHER .....	1
11.....	.616775	PLATE .....	1	28.....	.614520	CRANKSHAFT EXTENSION .....	1
12.....	.612180	GASKET .....	1	30.....	.614580	HOUSING .....	1
13.....	.618740	SCREW .....	4	32.....	.613680	GASKET .....	1
14.....	.612140	BALL BEARING .....	1	33.....	.610100	SCREW .....	4
15.....	.612120	SPACER .....	1	34.....	.630102	SYNCHRONIZER ADAPTOR .....	1
16.....	.612100	WASHER .....	4	35.....	SHCS 8-32x1-1/2..	SCREW .....	3
17.....	.611480	BEARING .....	1				



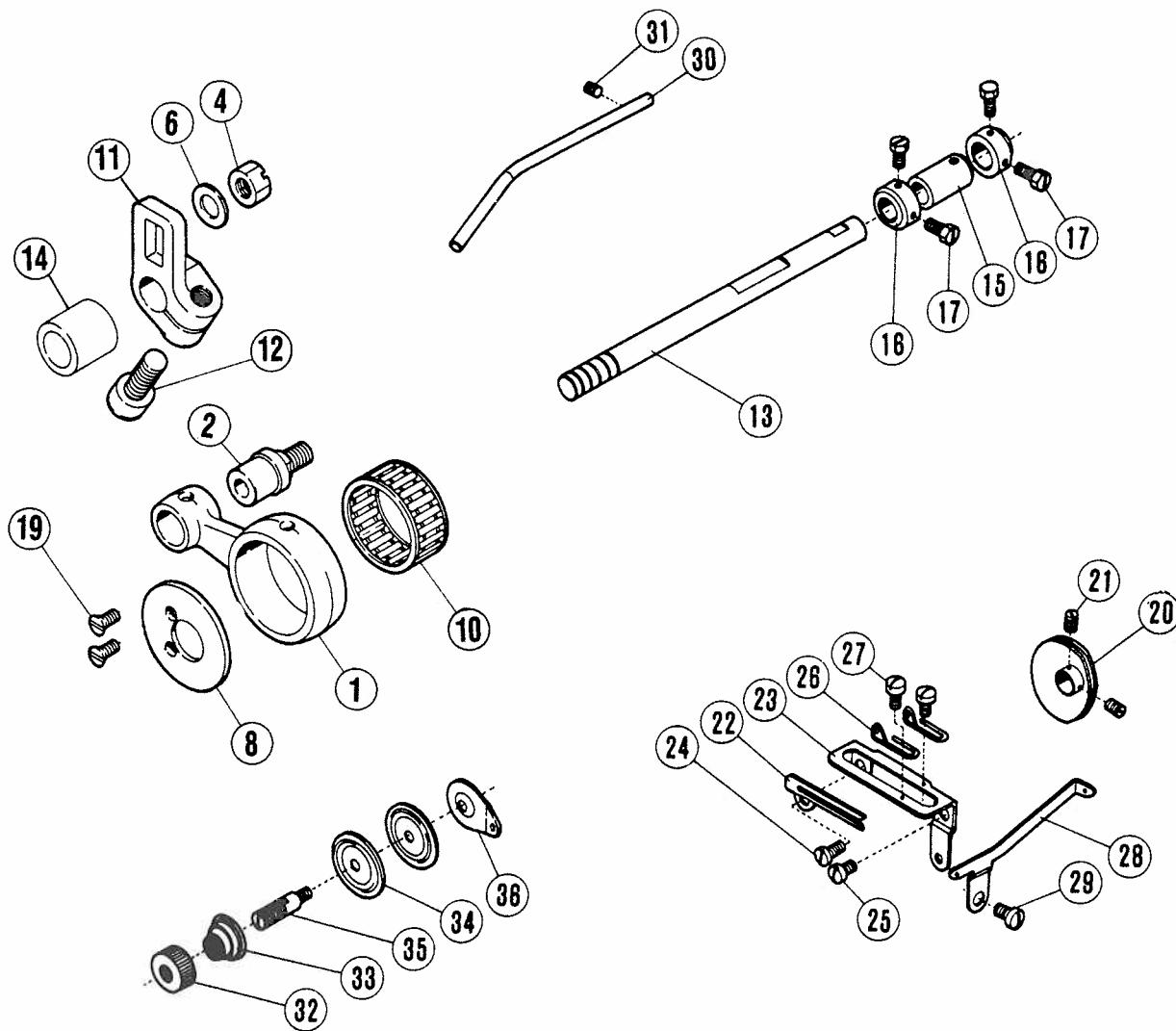
## 1) LOOPER MECHANISM

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	616160 .....	LOOPER DRIVE CONN.....	1	27.....	614960 .....	LOOPER AVOIDING LINK.....	1
2.....	617600 .....	LARGE CAP SCREW.....	2	28.....	619720 .....	SCREW.....	2
3.....	610040 .....	SMALL CAP SCREW.....	2	29.....	614980 .....	PIN.....	1
4.....	611160 .....	GUIDE.....	1	30.....	615000 .....	BLOCK.....	1
5.....	610020 .....	GUIDE SCREW.....	1	31.....	619400 .....	SCREW.....	1
6.....	611640 .....	SPACER SCREW WASHER.....	1	32.....	615020 .....	THRUST WASHER.....	1
7.....	615240 .....	LOOPER DRIVE CRANK.....	1	33.....	615040 .....	COLLAR.....	1
8.....	611620 .....	SCREW.....	2	34.....	618600 .....	COLLAR SCREW.....	1
9.....	614260 .....	RETAINING RING.....	1	35.....	619620 .....	NUT.....	1
10.....	617055 .....	LOOPER LEVER SHAFT.....	1	45.....	612520 .....	LOOPER LEVER.....	1
11.....	612646 .....	THRUST WASHER.....	1	46.....	619360 .....	CLAMP SCREW.....	1
12.....	617540 .....	THRUST WASHER SCREW.....	1	47.....	613640 .....	CLAMP SCREW WASHER.....	1
13.....	611640 .....	SPACER SCREW WASHER.....	1	48.....	620270 .....	LOOPER.....	1
14.....	615780 .....	FRONT BUSHING.....	1	49.....	610140 .....	SCREW.....	1
15.....	612320 .....	REAR BUSHING.....	1	50.....	613200 .....	REGULATOR.....	1
16.....	615260 .....	LOOPER DRIVE SHANK.....	1	51.....	618220 .....	REGULATOR SCREW.....	1
17.....	619700 .....	CLAMP SCREW.....	1				
18.....	615280 .....	LINK.....	1				
19.....	615300 .....	LINK PIN.....	2				
20.....	618780 .....	LINK PIN SCREW.....	2				
21.....	618600 .....	COLLAR SCREW.....	1				
22.....	611600 .....	1" LENGTH OIL WICK.....	2				
23.....	615320 .....	LOOPER DRIVE SHAFT.....	1				
24.....	615810 .....	BUSHING-FRONT.....	1				
25.....	612300 .....	FRONT BUSHING OIL SEAL.....	1				
26.....	612440 .....	CENTER BUSHING.....	1				



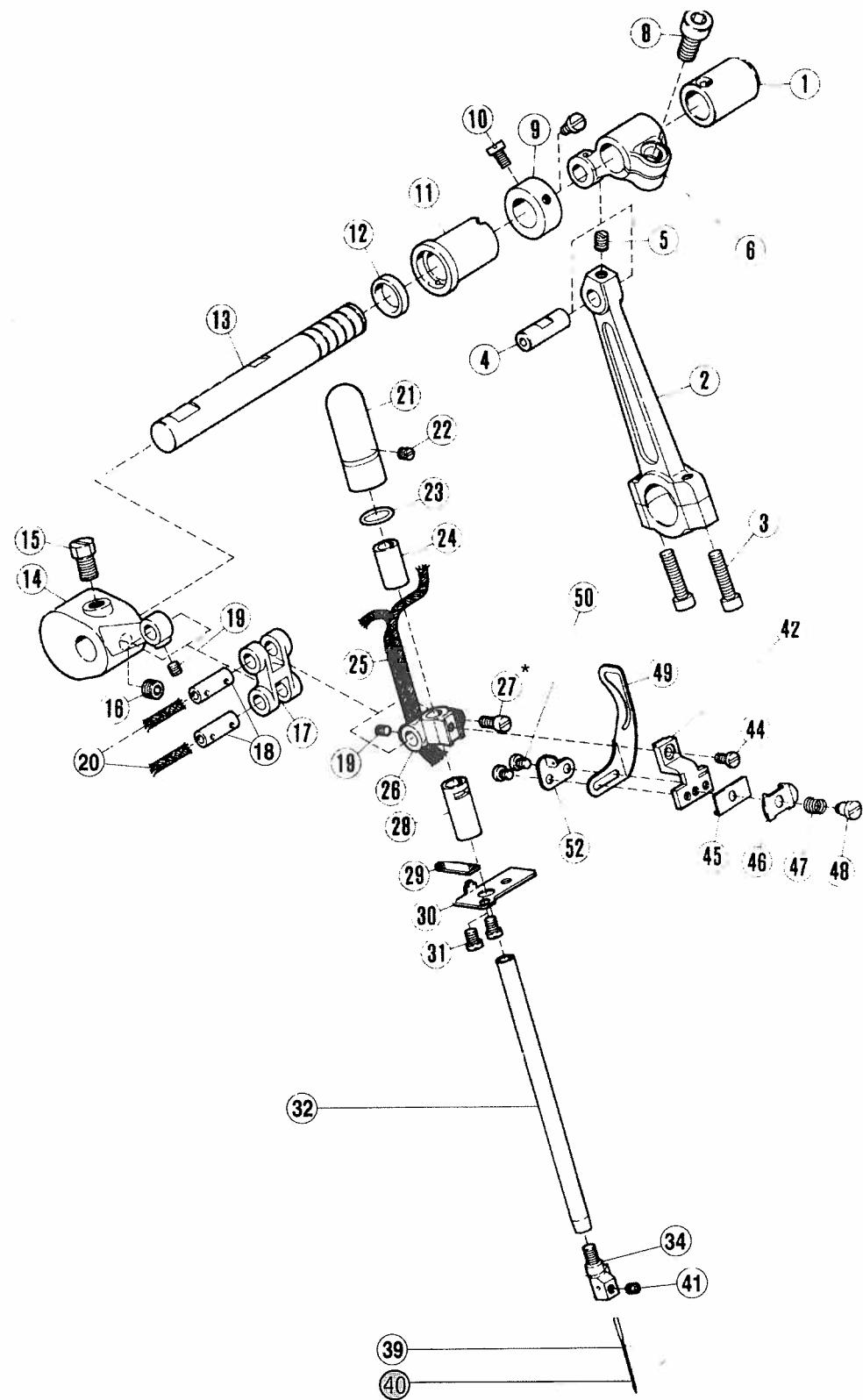
## **2) LOOPER MECHANISM**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	620030	LOOPER AVOIDING CONNECTION	1	22	612560	GUIDE	1
2	620031	PIN	1	23	612580	LOOPER THREAD GUIDE BRACKET	1
4	619740	PIN NUT	1	24	618340	SCREW	1
6	615740	PIN NUT WASHER	1	25	618720	SCREW	1
8	620029	COLLAR	1	26	613700	TAKEUP EYELET	2
10	620028	NEEDLE BEARING	1	27	618480	SCREW	2
11	620032	LOOPER AVOIDING CRANK	1	28	616220	LOOPER THREAD GUIDE	1
12	620026	CLAMP SCREW	1	29	618720	SCREW	1
13	614540	LOOPER AVOIDING SHAFT	1	30	612600	LOOPER THREAD TUBE	1
14	640027	LEFT BUSHING	1	31	610420	SCREW	1
15	612500	RIGHT BUSHING	1	32	618300	LOOPER THREAD TENSION NUT	1
16	611100	THRUST COLLAR	2	33	610520	SPRING	1
17	618600	COLLAR SCREW	4	34	611460	DISC	2
19	640028	SCREW	2	35	610500	POST	1
20	612540	LOOPER THREAD TAKEUP	1	36	6111920	GUIDE	1
21	619400	GENUINE SCREW	2				



**NEEDLE BAR MECHANISM (BS 401-100, 300, 500, & CB-100)**

(BS 401-600 on pages 34-35)



## NEEDLE BAR MECHANISM

(BS 401-600 on pages 34-35)

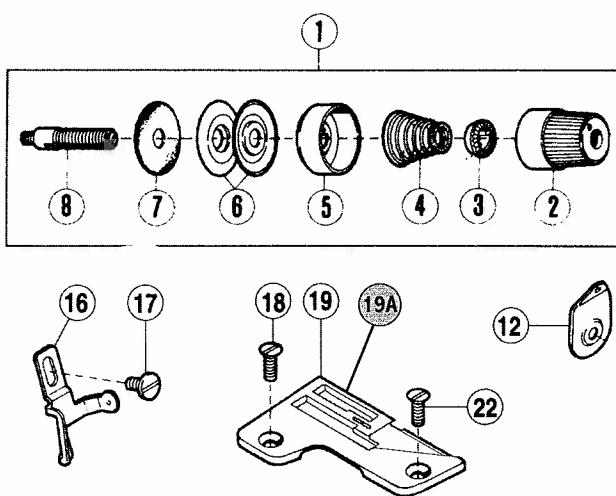
Ref #	Part #	Description	Qty
1	615440	BUSHING (RIGHT)	1
2	612260	CONNECTION	1
3	619200	SCREW	2
4	614760	PIN	1
5	619220	SCREW	1
6	611440	CRANK (REAR)	1
8	619700	SCREW	1
9	611220	THRUST WASHER	1
10	619520	SCREW	2
11	615420	BUSHING (LEFT)	1
12	615460	OIL SEAL	1
13	615400	SHAFT	1
14	630136	CRANK (FRONT)	1
15	611620	SCREW	1
16	619420	SCREW	1
17	630118	LINK	1
18	610960	PIN	2
19	619400	SCREW	2
20	611600	OIL WICK	2
21	617240	CAP	1
22	610420	SCREW	1
23	610740	"O" RING	1
24	613900	BUSHING UPPER	1
25	617420	OIL WICK	1
26	640012	NEEDLE BAR CLAMP	1
27*	610060	SCREW	1
28	613920	BUSHING (LOWER)	1
29	617220	OIL FELT	1
30	617200	DUST SHIELD	1
31	618440	SCREW	2
32	617280	NEEDLE BAR	1
34	630113	NEEDLE HOLDER	1
39	PSM-130	NEEDLE (401-100, 300, & CB 100)	1
40	PSM-160	NEEDLE (401-500)	1
41	619400	SCREW	1
42	614040	RETAINER BRACKET	1
44	619640	SCREW	1
45	611720	GUIDE	1
46	610760	GUIDE	1
47	617340	SPRING	1
48	629860	SCREW	1
49	611880	TAKEUP	1
50	610135	SCREW	2
52	614060	THREAD GUIDE	1

\* For socket head cap screw order:

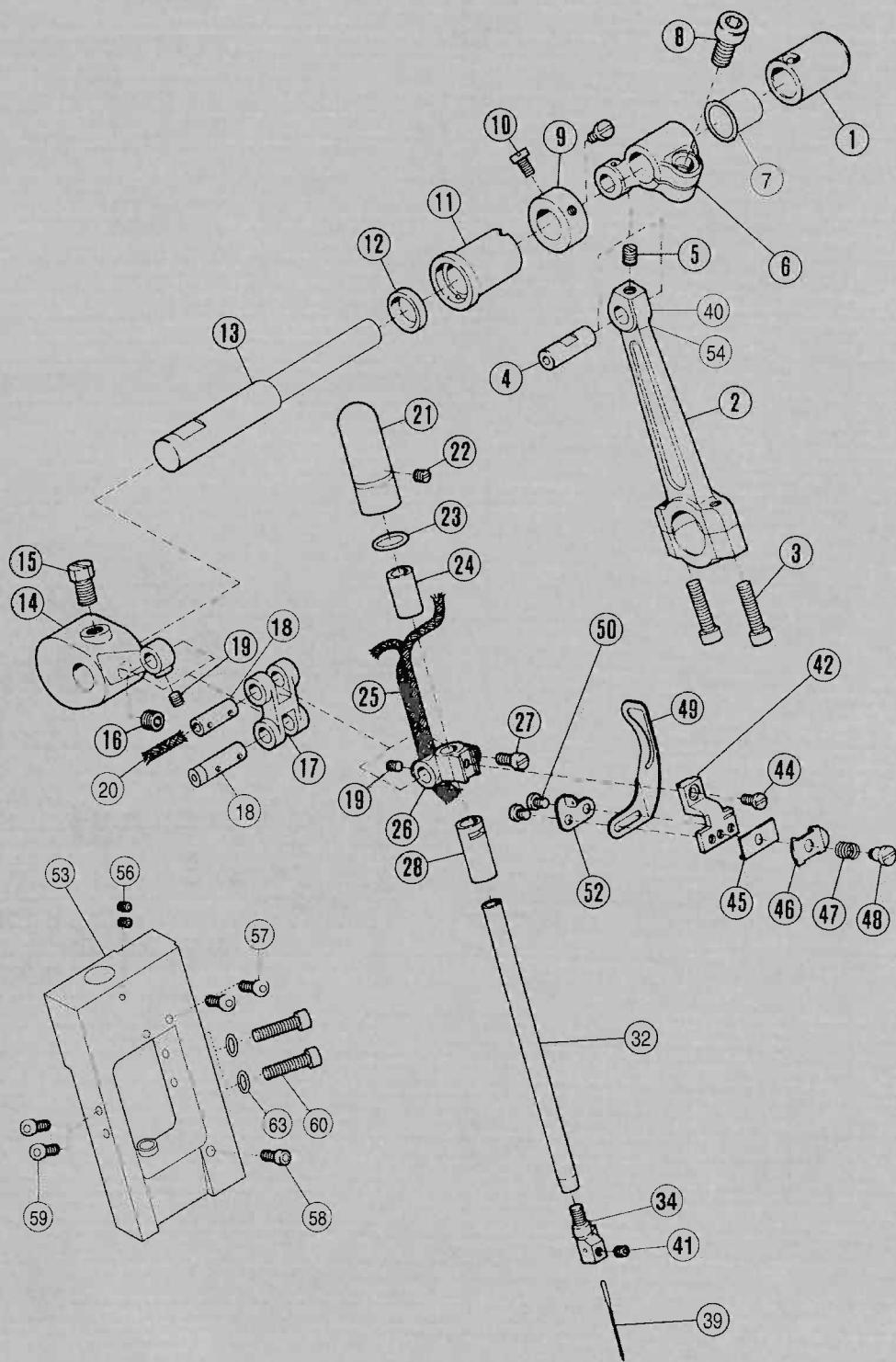
SHCS 6-32x3/8 ....SCREW.....2

## NEEDLE PLATE &amp; TENSION

Ref #	Part #	Description	Qty
1	616840	NEEDLE THREAD TENSION COMPLETE	1
2	616680	NUT	1
3	616700	SPRING BUSHING	1
4	611040	SPRING (HEAVY)	1
5	616740	SPRING CUP	1
6	611460	DISC	2
7	616720	CUSHION FELT	1
8	618560	POST, SHORT ENDED	1
12	611920	GUIDE DISC	1
16	640010	THREAD GUIDE	1
17	618340	SCREW	1
18	610560	SCREW	1
19	650075	THROAT PLATE	10
19A	670623	THROAT PLATE (CB-100 ONLY)	1
22	610560	SCREW	1



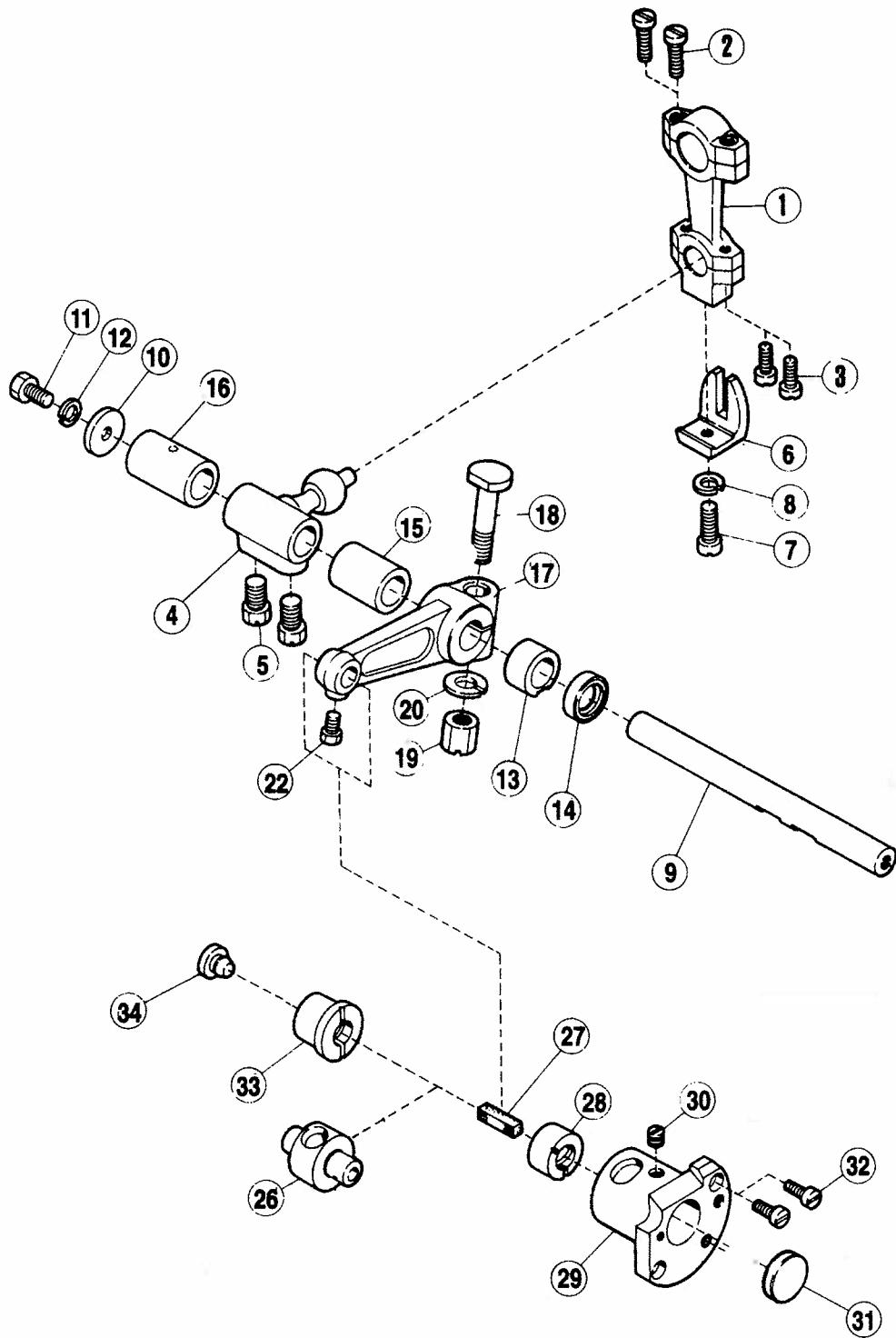
## NEEDLE BAR MECHANISM (BS 401-600)



**NEEDLE BAR MECHANISM (BS 401-600)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	615440	BUSHING (RIGHT) .....	1	27	610060	SCREW .....	1
2	670008	CONNECTION .....	1	28	670004	BUSHING (LOWER) .....	1
3	619200	SCREW .....	2	32	617280	NEEDLE BAR .....	1
4	614760	PIN .....	1	33	617300	NEEDLE HOLDER .....	1
5	SS 1/4-20X3/16	SCREW .....	1	39	PSM-1160	NEEDLE .....	1
6	670054	CRANK (REAR) .....	1	40	6700013	EXTENSION .....	1
7	670058	NYLON BUSHING .....	1	41	619400	SCREW .....	1
8	619700	SCREW .....	1	42	614040	RETAINER BRACKET .....	1
9	670002	COLLAR .....	1	44	619640	SCREW .....	1
10	619520	SCREW .....	2	45	611720	GUIDE .....	1
11	615420	BUSHING (LEFT) .....	1	46	610760	GUIDE .....	1
12	615460	OIL SEAL .....	1	47	617340	SPRING .....	1
13	670057	SHAFT .....	1	48	629860	SCREW .....	1
14	670041	CRANK (FRONT) .....	1	49	611880	TAKEUP .....	1
15	611620	SCREW .....	1	50	610135	SCREW .....	2
16	619420	SCREW .....	1	52	614060	THREAD GUIDE .....	1
17	630118	LINK .....	1	53	670606	NEEDLE BAR SUPPORT ASSEMBLY ..	1
18	610960	PIN .....	2	54	670014	SCREW (NOT SHOWN) .....	1
19	619400	SCREW .....	1	56	SS 8-32X1/8	SET SCREW .....	1
20	611600	OIL WICK .....	2	57	BHCS 8-32X1/4	SCREW .....	2
21	.660038	CAP .....	1	58	SHCS 8-32X1/4	SCREW .....	1
22	610420	SCREW .....	1	59	BHCS 6-32X1/4	SCREW .....	2
23	610740	"O" RING .....	1	60	SHCS 10-32X7/8	SCREW .....	2
24	613900	BUSHING UPPER .....	1	61	SUPPORT ASSY(REF# 56-60,24,28)	.....	1
25	617420	OIL WICK .....	1	62	.5103-23	E-RING .....	2
26	640012	NEEDLE BAR CLAMP .....	1	63	FW 1/4-BLACK	WASHER .....	2

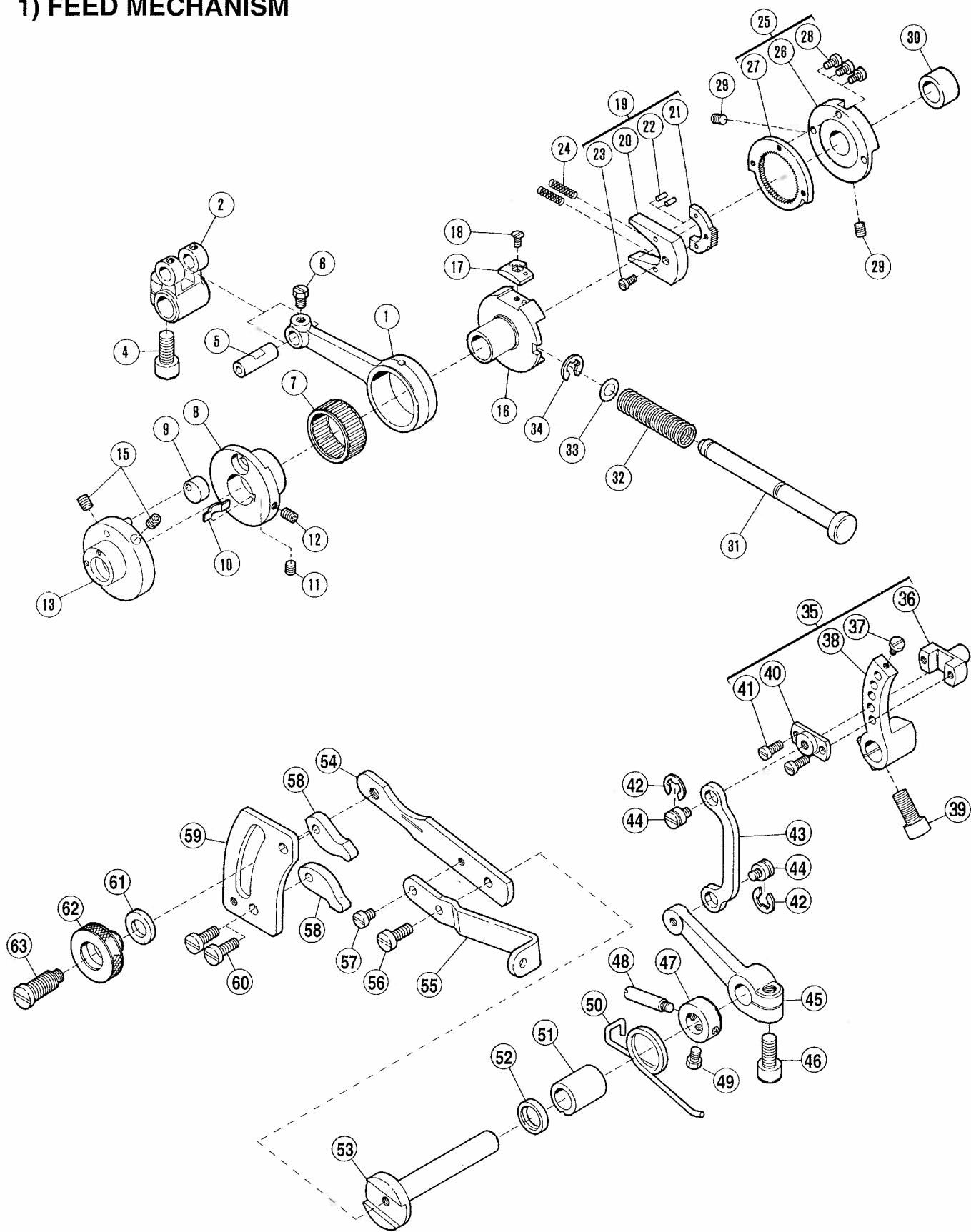
## DRIVE MECHANISM



**DRIVE MECHANISM**

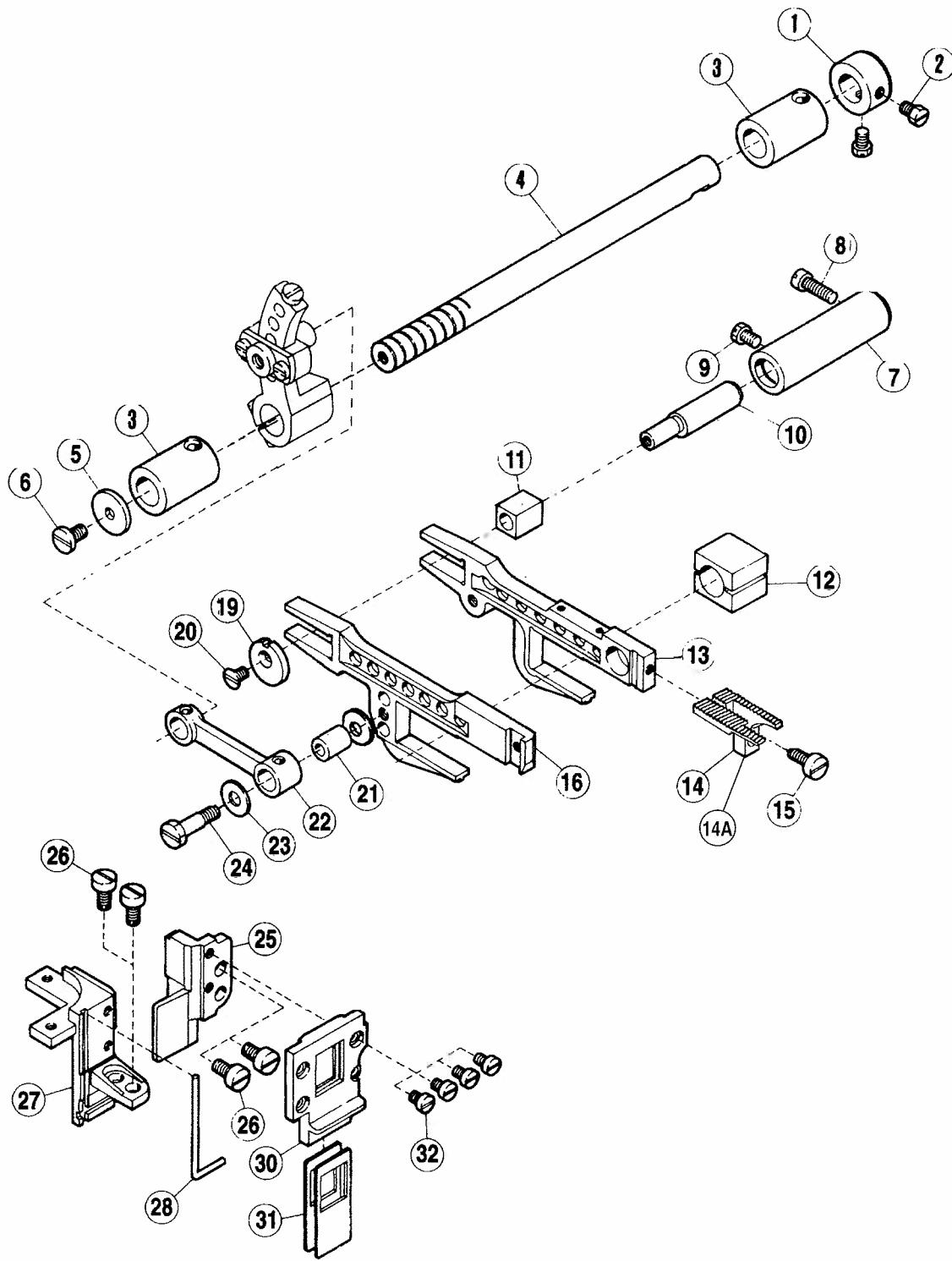
Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....616160 .....	LOOPER DRIVE CONN.....	1		16.....616620 .....	BUSHING (REAR) .....	1	
2.....640013 .....	CAP SCREW (LARGE).....	2		17.....612340 .....	LOOPER LEVER CRANK.....	1	
3.....640013 .....	CAP SCREW (LARGE).....	2		18.....619280 .....	CLAMP SCREW .....	1	
4.....612280 .....	CRANK.....	1		19.....619380 .....	CLAMP SCREW NUT .....	1	
5.....611620 .....	CRANK SCREW .....	2		20.....611560 .....	CLAMP SCREW NUT WASHER .....	1	
6.....611160 .....	GUIDE .....	1		22.....618600 .....	PIN SCREW .....	1	
7.....619600 .....	GUIDE SCREW .....	1		26.....615100 .....	GUIDE .....	1	
8.....611640 .....	GUIDE SCREW WASHER.....	1		27.....613600 .....	OIL FELT .....	2	
9.....640015 .....	RIGHT LOOPER DRIVE SHAFT .....	1		28.....612380 .....	BUSHING (FRONT) .....	1	
10.....612640 .....	THRUST WASHER.....	1		29.....640017 .....	HOUSING .....	1	
11.....617540 .....	THRUST WASHER SCREW.....	1		30.....640018 .....	BUSHING FRONT SCREW .....	1	
12.....611640 .....	WASHER .....	1		31.....615220 .....	HOUSING CAP .....	1	
13.....615760 .....	BUSHING (FRONT) .....	1		32.....610100 .....	HOUSING CAP SCREW.....	2	
14.....612300 .....	BUSHING (FRONT) OIL SEAL .....	1		33.....640016 .....	BUSHING (REAR) .....	1	
15.....640014 .....	BUSHING (CENTER).....	1		34.....617060 .....	CAP .....	1	

## 1) FEED MECHANISM



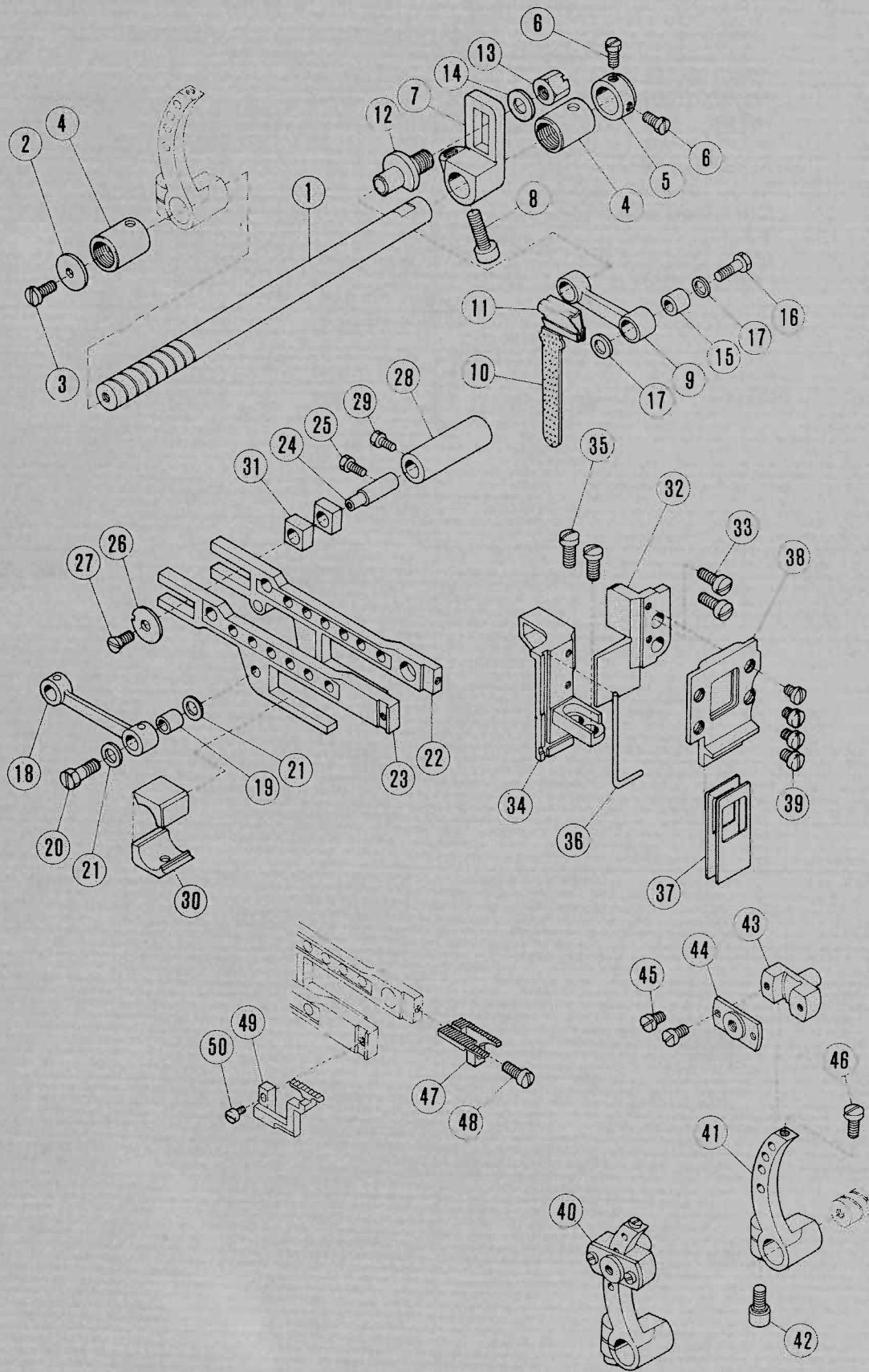
## 1) FEED MECHANISM

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....612620 .....	FEED DRIVE CONNECTION .....	1		34.....611740 .....	RETAINING RING.....	2	
2.....620217 .....	FEED DRIVE CRANK.....	1		35.....615560 .....	FEED REG. ASSY. (REF.#36-41) .....	1	
4.....619700 .....	CLAMP SCREW .....	1		36.....615600 .....	BLOCK.....	1	
5.....614760 .....	PIN .....	1		37.....618660 .....	STOP SCREW .....	1	
6.....618600 .....	PIN SCREW.....	1		38.....615580 .....	SEGMENT (CRANK) .....	1	
7.....612480 .....	NEEDLE BEARING.....	1		39.....619700 .....	SCREW.....	1	
8.....620034 .....	FEED DRIVE ECCENTRIC.....	1		40.....615620 .....	BLOCK COVER .....	1	
9.....620037 .....	FEED ECCENTRIC GUIDE .....	1		41.....618420 .....	SCREW.....	2	
10.....620038 .....	FLAT SPRING.....	1		42.....611740 .....	RETAINING RING.....	2	
11.....619400 .....	SET SCREW.....	1		43.....612820 .....	FEED REG. LINK.....	1	
12.....620039 .....	SET SCREW.....	1		44.....619460 .....	SCREW.....	2	
13.....620040 .....	LOOPER AVOIDING ECCENTRIC .....	1		45.....612800 .....	FEED REG. LEVER.....	1	
15.....620033 .....	SET SCREW.....	2		46.....619700 .....	SCREW.....	1	
16.....620042 .....	FEED REGULATING ECCENTRIC .....	1		47.....614120 .....	COLLAR.....	1	
17.....620052 .....	STOPPER.....	1		48.....614180 .....	SCREW PIN.....	1	
18.....619780 .....	SCREW.....	1		49.....618600 .....	SCREW.....	1	
19.....616340 .....	FD. REG. RACHET ASSY. (REF.#20-24) .....	1		50.....614160 .....	REGULATING SPRING .....	1	
20.....616365 .....	POSITION GEAR BRACKET.....	1		51.....640031 .....	BUSHING.....	1	
21.....616360 .....	POSITION GEAR.....	1		52.....612300 .....	OIL SEAL .....	1	
22.....640029 .....	PIN .....	2		53.....614100 .....	FEED SHAFT.....	1	
23.....619580 .....	SCREW.....	1		54.....614140 .....	FEED REG. LEVER.....	1	
24.....616400 .....	SPRING .....	2		55.....614600 .....	LEVER (FRONT).....	1	
25.....620035 .....	RACHET WHEEL ASSY. (REF.#26-29) .....	1		56.....618760 .....	SCREW.....	1	
26.....620043 .....	BRACKET .....	1		57.....610200 .....	SCREW.....	1	
27.....620044 .....	WHEEL .....	1		58.....612860 .....	STOPPER .....	2	
28.....620045 .....	SCREW.....	3		59.....612840 .....	REGULATING PLATE .....	1	
29.....620033 .....	SET SCREW.....	2		60.....618760 .....	SCREW.....	2	
30.....620053 .....	SPACER.....	1		61.....611940 .....	WASHER .....	1	
31.....620055 .....	PUSH BUTTON .....	1		62.....614480 .....	THUMB NUT .....	1	
32.....616520 .....	SPRING .....	1		63.....619500 .....	SCREW.....	1	
33.....620054 .....	O-RING .....	1					

**2) FEED MECHANISM (BS 401-100, 300, & 500)**

**2) FEED MECHANISM (BS 401-100, 300, & 500)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....611100 .....	THRUST COLLAR .....	.1	15.....610100 .....	SCREW .....	.1		
2.....618600 .....	THRUST COLLAR SCREW .....	.2	16.....612740 .....	DIFFERENTIAL FEED BAR .....	.1		
3.....640032 .....	BUSHING .....	.2	19.....613780 .....	WASHER .....	.1		
4.....614080 .....	FEED BAR SHAFT .....	.1	20.....619480 .....	WASHER SCREW .....	.1		
5.....612640 .....	THRUST WASHER .....	.1	21.....612680 .....	BUSHING .....	.1		
6.....618340 .....	THRUST WASHER SCREW .....	.1	22.....612720 .....	CONNECTING LINK .....	.1		
7.....612780 .....	FEED BAR GUIDE BUSHING .....	.1	23.....612700 .....	BUSHING SCREW WASHER .....	.2		
8.....617440 .....	SCREW .....	.1	24.....619140 .....	BUSHING SCREW .....	.1		
9.....618600 .....	SCREW .....	.1	25.....615140 .....	FEED BAR GUIDE (RIGHT) .....	.1		
10.....612760 .....	FEED BAR HINGE PIN .....	.1	26.....619080 .....	SCREW .....	.4		
11.....640033 .....	FEED BAR GUIDE BLOCK .....	.1	27.....640034 .....	FEED BAR GUIDE .....	.1		
12.....614320 .....	LIFT BLOCK .....	.1	28.....615200 .....	GASKET .....	.1		
13.....620231 .....	FEED BAR .....	.1	30.....615180 .....	INSERT PLATE .....	.1		
14.....650076 .....	MAIN FEED DOG .....	.1	31.....615160 .....	FEED BAR OIL SPLASH GUARD .....	.2		
14A.....650078 .....	MAIN FEED DOG (401-500) .....	.1	32.....619600 .....	SCREW .....	.4		

**MAIN & DIFFERENTIAL FEED MECHANISM (CB-100 & BS 401-600)**

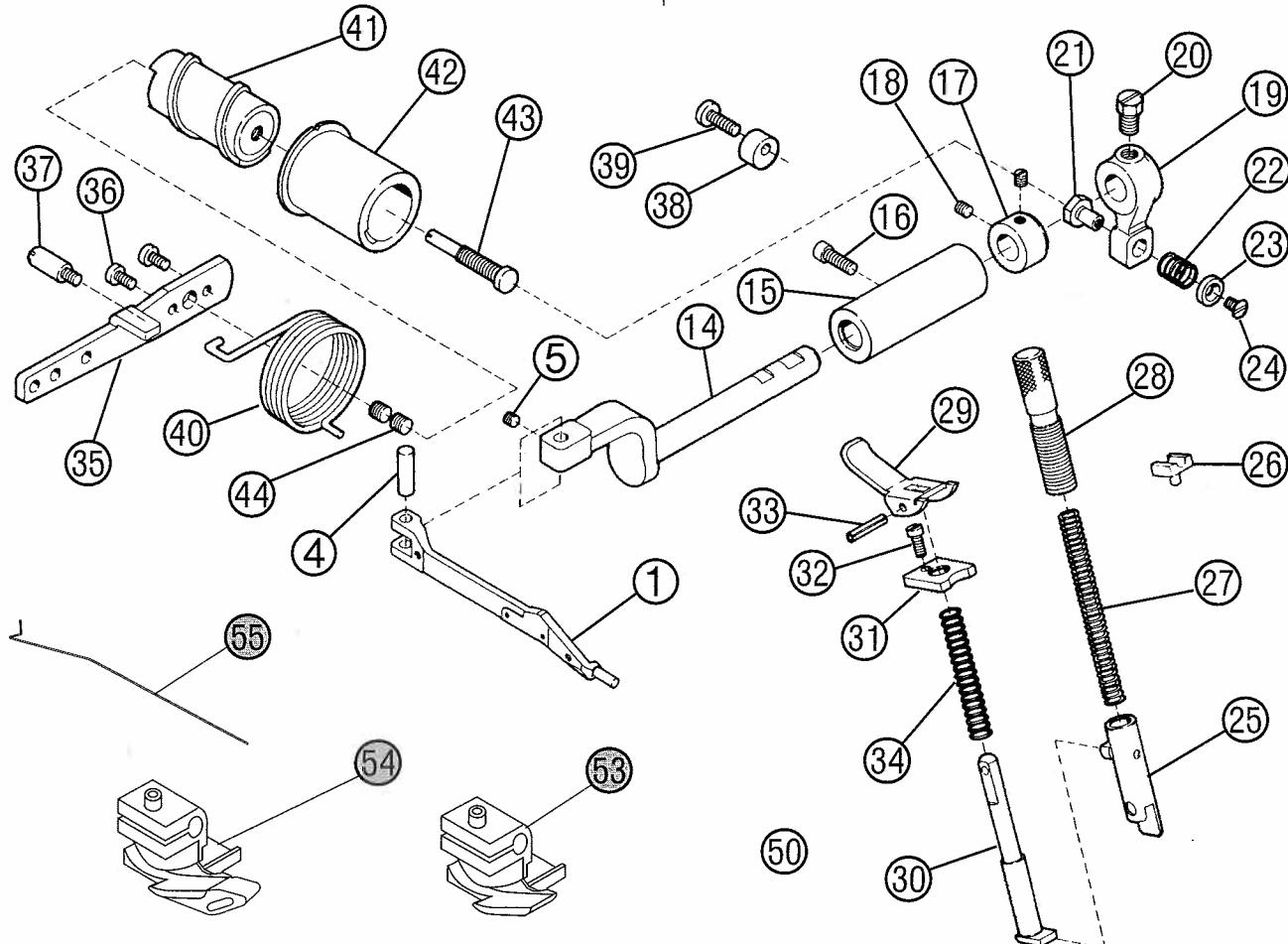
**MAIN & DIFFERENTIAL FEED MECHANISM (CB-100 & BS 401-600)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	614080 .....	Feed Bar Shaft .....	1	27.....	619480 .....	Washer Screw .....	1
2.....	613660 .....	Looper .....	1	28.....	612780 .....	Feed Bar Bushing Guide .....	1
3.....	618340 .....	Screw .....	1	29.....	617440 .....	Bushing Screw .....	1
4.....	612320 .....	Rear Bushing .....	2	30.....	614320 .....	Liftt Block .....	1
5.....	611100 .....	Thrust Collar .....	1	31.....	611200 .....	Feed Bar Guide Block .....	2
6.....	618600 .....	Collar Screw .....	2	32.....	615140 .....	Right Feed Bar Guide .....	1
7.....	615700 .....	Regulating Crank .....	1	33.....	619080 .....	Screw .....	2
8.....	619700 .....	Clamp Screw .....	1	34.....	615120 .....	Feed Bar Guide .....	1
9.....	612660 .....	Main Feed Connecting Link .....	1	35.....	619080 .....	Screw .....	2
10.....	613180 .....	.Oil Felt .....	1	36.....	615200 .....	Gasket .....	1
11.....	613860 .....	.Retainer .....	1	37.....	615160 .....	Feed Bar Oil Splash Guard .....	2
12.....	615720 .....	.Pin .....	1	38.....	615180 .....	Insert Plate .....	1
13.....	619740 .....	.Pin Nut .....	1	39.....	619600 .....	Screw .....	4
14.....	615740 .....	.Pin Nut Washer .....	1	40.....	615560 .....	Differential Feed Regulator .....	1
15.....	612680 .....	Bushing .....	1	41.....	615580 .....	Segment .....	1
16.....	619140 .....	Screw .....	1	42.....	619700 .....	Clamp Screw .....	1
17.....	612700 .....	Washer .....	2	43.....	615600 .....	Block .....	1
18.....	612720 .....	Connecting Link .....	1	44.....	615610 .....	Block Cover .....	1
19.....	612680 .....	Bushing .....	1	45.....	618420 .....	Screw .....	2
20.....	619140 .....	Bushing Screw .....	1	46.....	618860 .....	Block Stop Screw .....	1
21.....	612700 .....	Bushing Screw Washer .....	2	47.....	650077 .....	Feed Dog (CB-100) .....	1
22.....	612730 .....	Main Feed Bar (CB-100) .....	1	47A.....	650079 .....	Feed Dog (401-600) .....	1
22A.....	670604 .....	Main Feed Bar (401-600) .....	1	48.....	610100 .....	Screw .....	1
23.....	612740 .....	Differential Feed Bar (CB-100) .....	1	49.....	670622 .....	Differential Feed Dog (CB-100) .....	1
23A.....	670605 .....	Differential Feed Bar (401-600) .....	1	50.....	610120 .....	Genuine Screw .....	1
24.....	612760 .....	Feed Bar Hinge Pin .....	1	51.....	620015 .....	Front Feed Dog .....	1
25.....	618600 .....	Collar Screw .....	1	52.....	610140 .....	Screw .....	1
26.....	613780 .....	Washer .....	1				

## PRESSER FOOT & LIFT MECHANISM

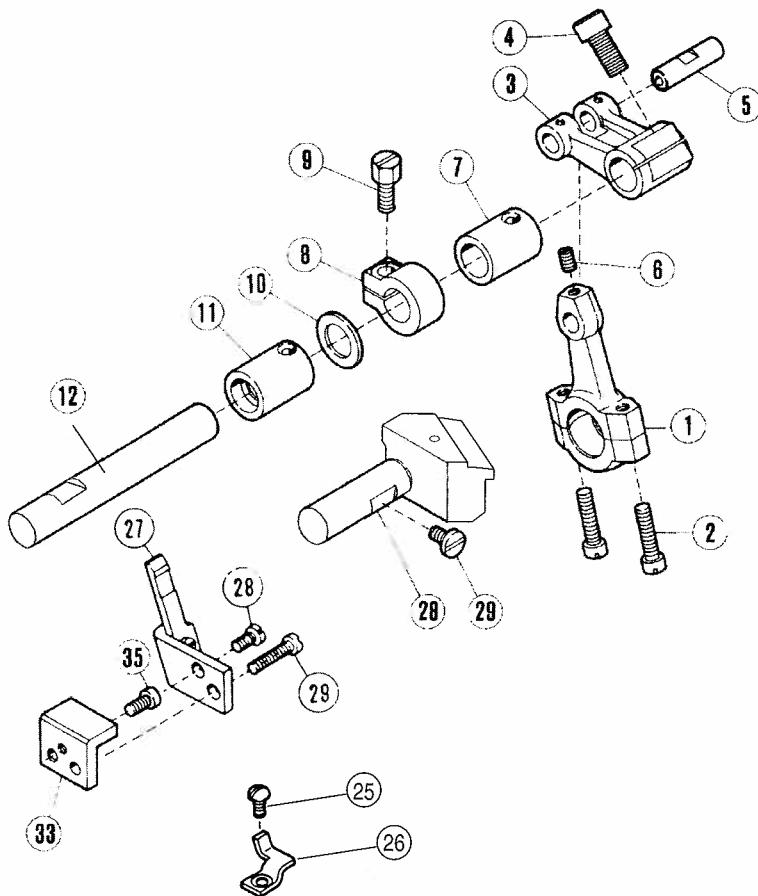
**(BS 401-500 ON PAGE 20; BS 401-600 ON PAGE 22)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1	650038	PRESSER FOOT ARM	1	34	611420	SPRING	1
4	617040	HINGE PIN	1	35	613220	FOOT LIFT LEVER	1
5	619020	HINGE PIN SCREW	1	36	610180	SCREW	2
14	616960	FOOT LIFT LEVER SHAFT	1	37	619180	STOP SCREW	1
15	616980	BUSHING, COMPLETE	1	38	611840	REGULATOR	1
16	617440	BUSHING SCREW	1	39	618760	REGULATOR SCREW	1
17	611100	COLLAR	1	40	613240	SPRING	1
18	610420	COLLAR SCREW	2	41	614680	FOOT LIFT CAM	1
19	615900	LEVER	1	42	614700	BUSHING	1
20	611620	SCREW	1	43	615960	REGULATING SCREW STUD	1
21	615920	PIN	1	44	618160	STOP SCREW	2
22	615940	PIN SPRING	1	45	650039	PRESSER FOOT	1
23	611900	PIN WASHER	1	46	616920	PRESSER FOOT SHANK	1
24	619480	PIN SCREW	1	47	619100	PRESSER FOOT PIN SCREW	1
25	617000	PRESSER BAR, COMPLETE	1	48	618780	PRESSER FOOT PIN SCREW	1
26	616780	GUIDE	1	49	616940	PRESSER FOOT PIN	1
27	617020	PRESSER BAR GUIDE	1	50	650040	PRESSER FOOT ROLLER	1
28	617180	THUMB SCREW	1	51	650041	PRESSER FOOT ROLLER BRKT.	1
29	617100	HAND LIFT LEVER	1	52	619120	SCREW	1
30	611780	SPRING PLUNGER	1	53	650042	PRESSER FOOT ASSEMBLY (401-100 & 300)	1
31	617120	SPRING PLUNGER BUSHING	1	54	670620	PRESSER FOOT ASSY. (CB 100 ONLY)	1
32	618420	BUSHING SCREW	1	55	670621	PRESSER FOOT SPRING (CB 100 ONLY)	1
33	611800	HINGE PIN	1				



# **TOP FEED LIFT ASSEMBLY & NEEDLE GUARDS**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	612880	DRIVE CONN.....	1	11.....	613020	BUSHING (RIGHT) .....	1
2.....	619200	CAP SCREW .....	2	12.....	650070	SHAFT .....	1
3.....	613000	DRIVE CRANK.....	1	25.....	5227	SCREW .....	1
4.....	619700	CLAMP SCREW .....	1	26.....	620047	FRONT NEEDLE GUARD .....	1
5.....	612900	PIN .....	1	27.....	613580	REAR NEEDLE GUARD .....	1
6.....	610440	PIN SCREW.....	1	28.....	650071	HAMMER STOP .....	1
7.....	640035	BUSHING (LEFT).....	1	29.....	618340	SCREW .....	1
8.....	614815	THRUST COLLAR .....	1	33.....	613120	GUIDE .....	1
9.....	618350	THRUST COLLAR SCREW .....	2	35.....	610100	GUIDE SCREW .....	1
10.....	615390	WASHER .....	1				

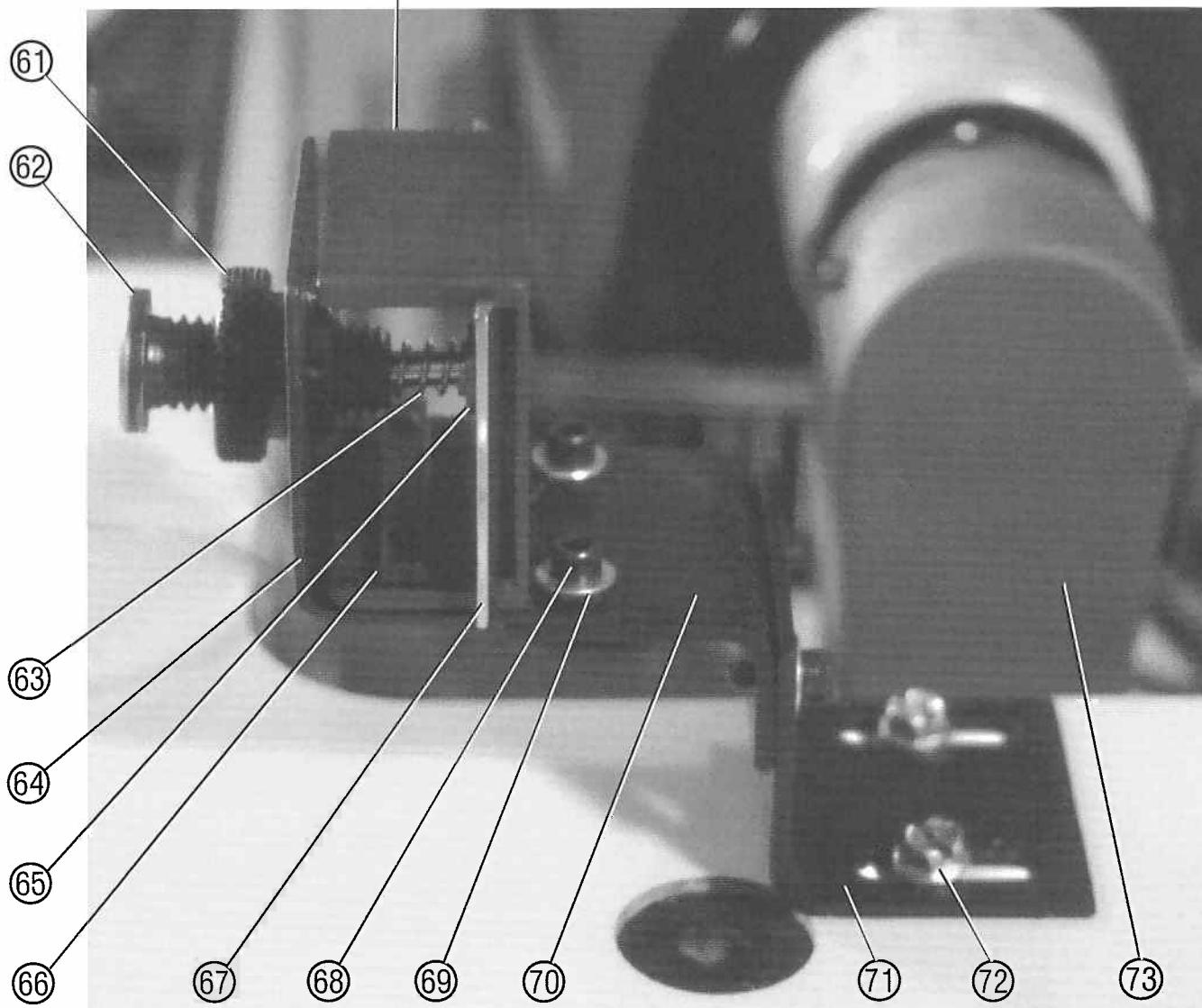


## TAPE TENSION ASSEMBLY

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
60	PNR-2049	Shroud	1	67	PNR-2053	Pressure Plate	1
61	CL-1213-TSJN	Check Nut	1	68	SHCS8-32x3/8	Screw	4
62	6219	Adjusting Screw	1	69	FW#8	Washer	4
63	LC-032D-4-M	Spring	1	70	NP-102	Bracket	1
64	PNR-2054	Support	1	71	NP-101	Bracket	1
65		Washer	1	72		Wood Screw	2
66	PNR-2048	Nut Plate	1	73	TCK-22	Synchronizer	1

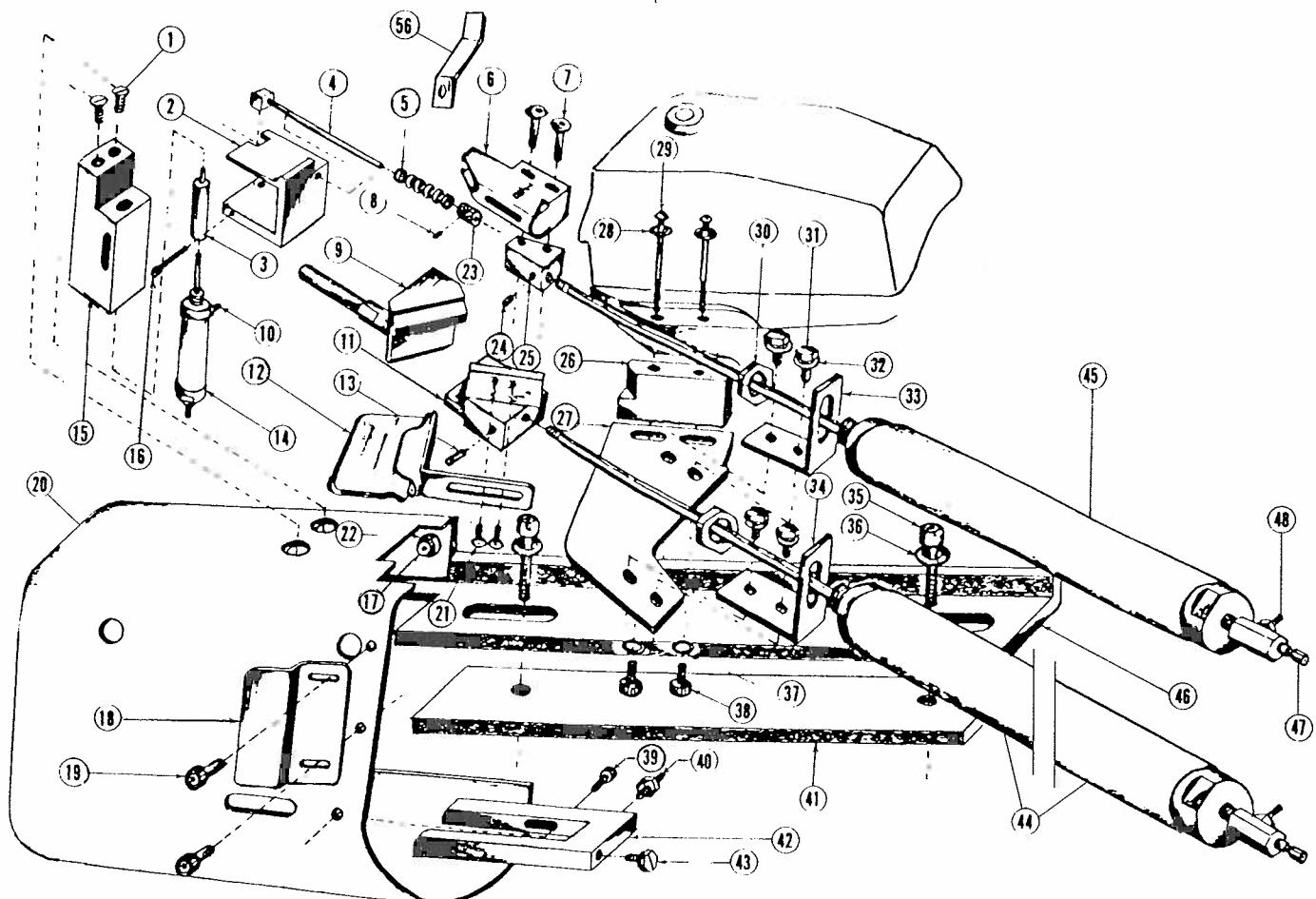
For Synchronizer Adaptor Screws see page 29, Ref# 35

(51) Listed on following page 47

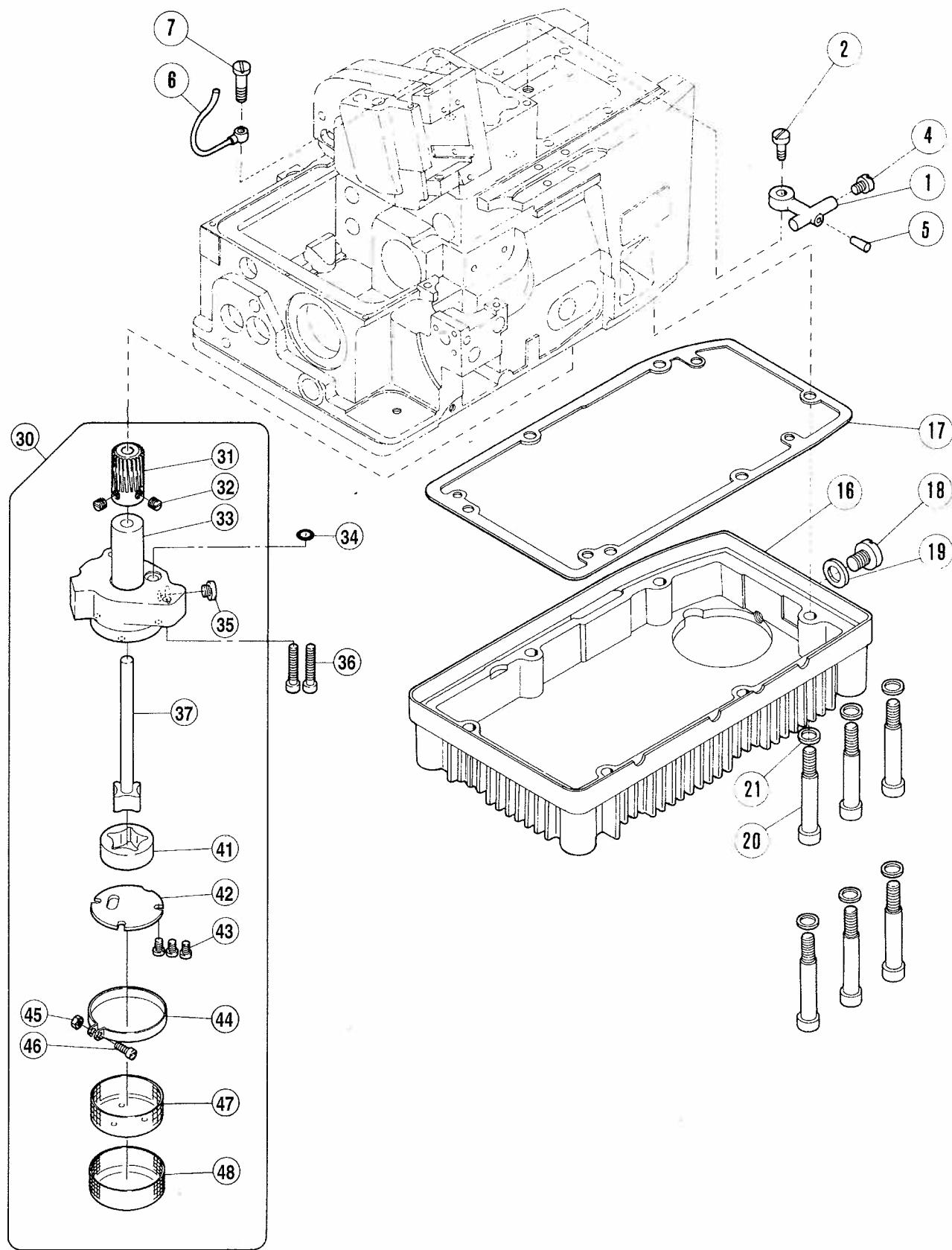


## TAPE FEED MECHANISM

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	FHMS10-32x1/2	Screw .....	2	26.....	670716	Spacer Block .....	1
2.....	670708	Drag Foot .....	1	27.....	670714	Binder Hemmer Plate .....	1
3.....	670707	Drag Foot Ext Pin .....	1	28.....	FW#6	Washer .....	2
4.....	670713	Drag Foot Insert Cam .....	1	29.....	SHCS6-32x1-1/4	Screw .....	2
5.....	LC-022BC-6	Drag Foot Insert Cam Spring .....	1	30.....	D-9	Hex Nut .....	2
6.....	670700	Binder (State Size) .....	1	31.....	HHB 1/4-28x1/2	Bolt .....	4
7.....	BHCS8-32x3/4	Screw .....	2	32.....	FW1/2	Washer .....	4
8.....	SS6-32x1/4	Screw .....	1	33.....	670715	Cylinder Mounting Bracket .....	1
9.....	650071	Stop Block .....	1	34.....	670715	Cylinder Mounting Bracket .....	1
10.....	MH-1016	Air Fitting .....	2	35.....	SHCS1/4-20x2	Screw .....	2
11.....	670703	Hemmer Mounting Block .....	1	36.....	FW1/2	Washer .....	2
12.....	P205A	Hemmer (State Size) .....	1	37.....	FW#8	Washer .....	2
13.....	SS10-32x1/4	Screw .....	1	38.....	SHCS8-32x5/8	Screw .....	2
14.....	020.5-D	Drag Foot Cylinder .....	1	39.....	SHCS8-32x1/2	Screw .....	1
15.....	670706	Drag Foot Bracket .....	1	40.....	MH-1016	Air Fitting .....	1
16.....	SHCS8-32x5/8	Screw .....	1	41.....	670711	Bar Nut Border Guide Support Bkt .....	1
17.....	SHCS1/4-20x1/2	Screw .....	2	42.....	670710	Border Edge Sensor .....	1
18.....	670709	Border Edge Guide .....	1	43.....	SS10-32X1/4	Screw .....	1
19.....	SHCS8-32x1/4	Screw .....	2	44.....	044-NR	Hemmer Cylinder .....	1
20.....	670705	Border Guide .....	1	45.....	043-NR	Binder Cylinder .....	1
21.....	BHCS6-32x1/4	Screw .....	2	46.....	670704	Bracket Border Guide Support .....	1
22.....	FW1/2	Washer .....	2	47.....	MNV-1KP	Air Flow Valve .....	2
23.....	670712	Drag Foot Handle .....	1	48.....	MH-1016	Air Fitting .....	2
24.....	SS8-32x1/8	Screw .....	1	51.....	S286A	Binder Tension Assy (See page 46) .....	1
25.....	670701	Binder Mounting Block .....	1	56.....	670717	Binder Stop Post .....	1



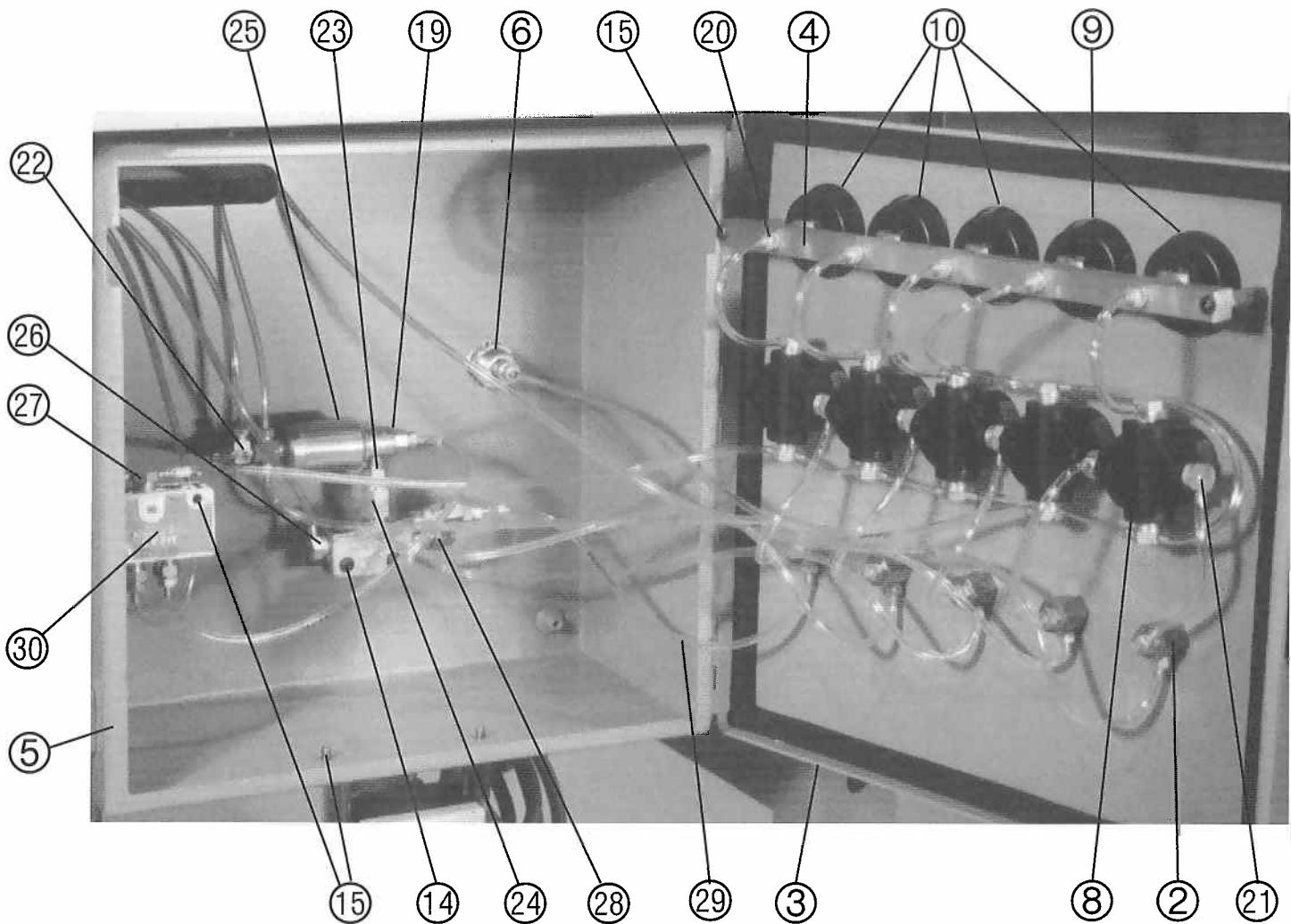
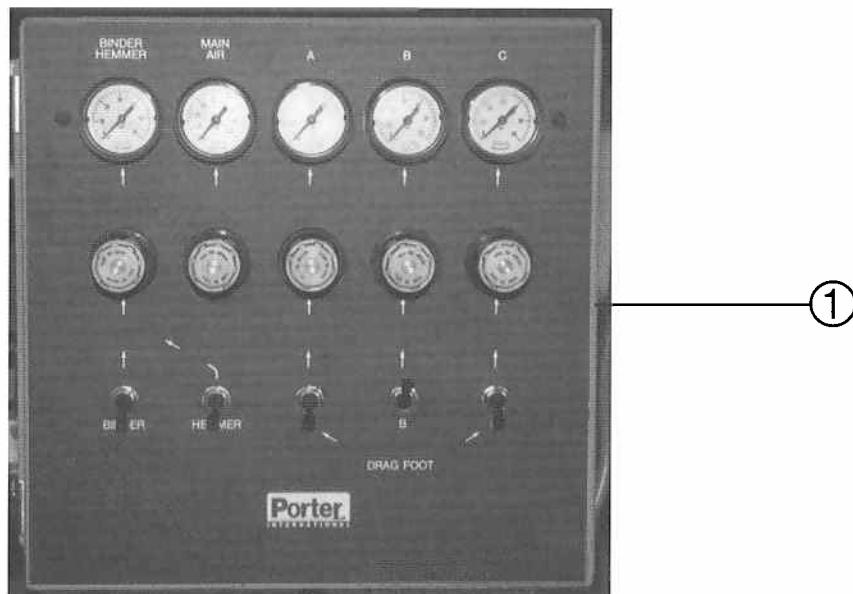
## LUBRICATING MECHANISM



**LUBRICATING MECHANISM**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	613440	OIL DISTRIBUTOR.....	1	33.....	620019	CASING COMPLETE.....	1
2.....	610860	OIL SPLASH SCREW.....	1	34.....	613320	"O" RING.....	1
4.....	613360	SCREW.....	1	35.....	618900	SCREW.....	1
6.....	613460	OIL SPLASH PIPE COMPLETE .....	1	36.....	618660	SCREW.....	2
7.....	611520	OIL SPLASH SCREW.....	1	37.....	620020	INSIDE ROTOR SHAFT .....	1
16.....	615500	OIL RESERVOIR .....	1	41.....	620024	OUTSIDE ROTOR .....	1
17.....	615980	GASKET.....	1	42.....	620025	ROTOR PLATE .....	1
18.....	618840	SCREW.....	1	43.....	619520	SCREW.....	3
19.....	611660	WASHER .....	1	44.....	640037	FILTER CLAMP.....	1
20.....	618960	BOLT .....	6	45.....	618320	NUT .....	1
21.....	614300	WASHER .....	6	46.....	610040	SCREW.....	1
30.....	613880	GEAR PUMP COMPLETE .....	1	47.....	640039	INSIDE FILTER .....	1
31.....	613360	WORM WHEEL.....	1	48.....	640038	OUTSIDE FILTER.....	1
32.....	618460	SCREW.....	2				

## CONTROL BOX (BS 401-300 &amp; 500)

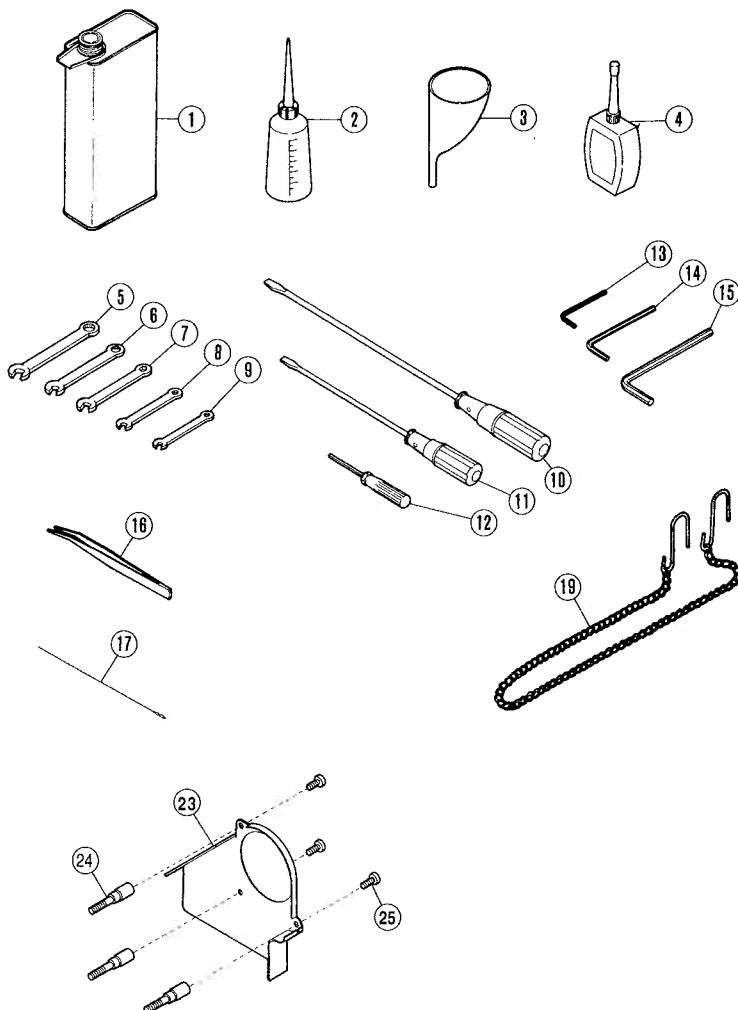


**CONTROL BOX (BS 401-300 & 500)**

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....10.....	ST-ASSEMBLY .....	1		16.....F300-1.....	FILTER (NOT SHOWN) .....	.5	
2.....03-01-01.....	TOGGLE SWITCH.....	5		17.....HOC.....	MALE QUICK DISCONNECT (NOT SHOWN) ..	1	
3.....1347.....	401 CONTROL PANEL L.....	1		18.....LTV-140.....	4-WAY VALVE (NOT SHOWN) .....	1	
4.....1360.....	MOUNTING BAR .....	1		19.....MAV-3.....	3-WAY RELEASE VALVE .....	1	
5.....1361.....	PNEUMATIC ENCLOSURE .....	1		20.....MH-1016 .....	AIR FITTING .....	25	
6.....15029-1.....	BULKHEAD CONNECT .....	1		21.....MLAS-1016 .....	MINI PNEUMATIC .....	1	
7.....15090-3.....	T CROSS FITTING .....	1		22.....MLS-MV-1010 .....	NEEDLE VALVE .....	1	
8.....1611A.....	0-160 PSI REGULATOR.....	5		23.....MN-1010 .....	HEX NIPPLE .....	2	
9.....1681.....	1/8" NPT GUAGE.....	1		24.....MPA-1810 .....	AIR FITTING .....	5	
10.....1681-A.....	1/8" NPT GUAGE.....	4		25.....MPA-7 .....	AIR PILOT MUFFLER .....	1	
11.....216P-2 .....	HEX NIPPLE (NOT SHOWN) .....	1		26.....MPAL-8016 .....	MINI PNEUMATIC .....	10	
12.....620102 .....	SPACER (NOT SHOWN) .....	4		27.....MPAT-8016.....	MINI PNEUMATIC .....	7	
13.....93195 .....	LOCK RING FOR FILTER (NOT SHOWN) .....	5		28.....MSV-1 .....	SHUTTLE VALVE .....	2	
14.....BHCS8-32X1 .....	BUTTON HEAD CAP SCREW.....	2		29.....MUT-1016 .....	AIR TUBING .....	25	
15.....BHCS8-32X3/4 .....	BUTTON HEAD CAP SCREW.....	6		30.....MV-60.....	3-WAY VALVE .....	1	

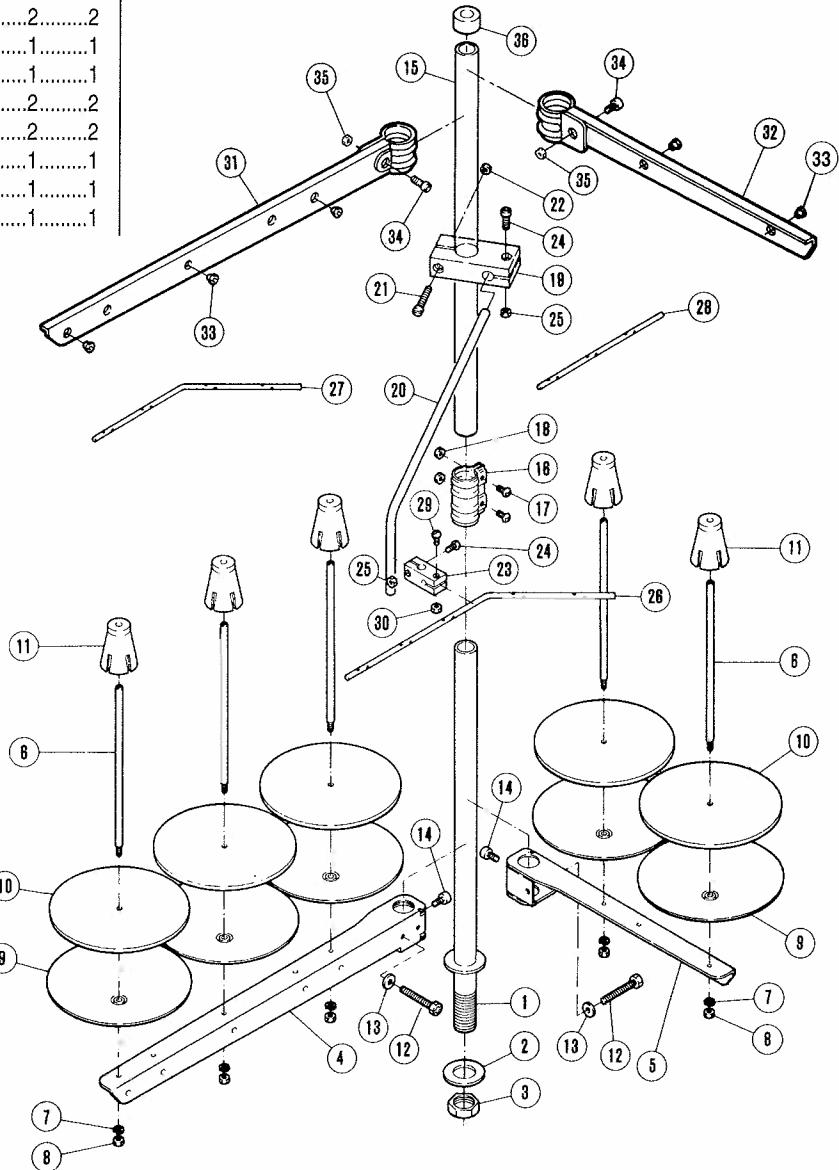
## ACCESSORIES

Ref #	Part #	Description	Qty	Ref #	Part #	Description	Qty
1.....	610340 .....	OIL CONTAINER.....	1	12.....	610600 .....	ALLEN WRENCH.....	1
2.....	610320 .....	OILER .....	1	13.....	640071 .....	ALLEN KEY (2.38 MM) .....	1
3.....	610380 .....	OIL FUNNEL .....	1	14.....	610640 .....	ALLEN KEY (3.17 MM) .....	1
4.....	610580 .....	LUBRICANT CONTAINER.....	1	15.....	610720 .....	ALLEN KEY (4.76 MM) .....	1
5.....	618080 .....	WRENCH (9.5 MM).....	1	16.....	610300 .....	TWEEZERS .....	1
6.....	618060 .....	WRENCH (8 MM).....	1	17.....	610460 .....	THREADING WIRE .....	1
7.....	618040 .....	WRENCH (7 MM).....	1	19.....	640072 .....	THREADLE CHAIN .....	1
8.....	618020 .....	WRENCH (6 MM).....	1	23.....	614720 .....	BELT GUARD .....	1
9.....	618000 .....	WRENCH (5 MM).....	1	24.....	614740 .....	FIXING SCREW .....	.3
10.....	610260 .....	SCREWDRIVER (LARGE).....	1	25.....	618740 .....	SCREW .....	.3
11.....	610280 .....	SCREWDRIVER (MEDIUM) .....	1				



## THREAD STAND

Ref #	Part #	Description	Spools: 3 4 5			Ref #	Part #	Description	Spools: 3 4 5		
			Qty	Qty	Qty				Qty	Qty	Qty
*	640068	THREAD STAND ASS. (5-SPOOLS)	1			22	640053	NUT	1	1	1
*	640069	THREAD STAND ASS. (4-SPOOLS)	1			23	640054	HOLDER	1	1	1
*	640070	THREAD STAND ASS. (3-SPOOLS)	1			24	640055	SCREW	2	2	2
1	640043	THREAD STAND ROD (LOWER)	1	1	1	25	640053	NUT	2	2	2
2	640044	WASHER	1	1	1	26	618240	THREAD GUIDE BAR (5-SPOOLS)			1
3	640042	NUT	1	1	1	27	618241	THREAD GUIDE BAR (4-SPOOLS)			1
4	640058	BRACKET	1		1	28	618242	THREAD GUIDE BAR (3-SPOOLS)			1
5	640059	BRACKET		2	1	29	640055	SCREW		1	1
6	640060	SPOOL PIN	3	4	5	30	640053	NUT	1	1	1
7	640061	SPRING WASHER	3	4	5	31	640045	BRACKET			1
8	640053	NUT	3	4	5	32	640046	BRACKET		2	1
9	640062	SPOOL TRAY	3	4	5	33	640047	THREAD EYELET	3	4	5
10	640063	CUSHION	3	4	5	34	640048	SCREW	1	2	2
11	640064	SPOOL RETAINING FIN	3	4	5	35	640049	NUT	1	2	2
12	640065	SCREW	1	2	2	36	640041	ROD CAP	1	1	1
13	640066	WASHER	1	2	2						
14	640067	SCREW	1	2	2						
15	640040	THREAD STAND ROD (UPPER)	1	1	1						
16	640056	JOINT	1	1	1						
17	640057	SCREW	2	2	2						
18	640049	NUT	2	2	2						
19	640050	BRACKET	1	1	1						
20	640051	THREAD GUIDE BAR ROD	1	1	1						
21	640052	SCREW	1	1	1						



# ORDERING INFORMATION

## **TO ORDER BY PHONE:**

**From Massachusetts 508-922-2611**

**From out of state 800-343-8138**

## **TO ORDER BY FAX: 617-599-7081**

(Fax & Message Service available 24 hours per day.)

## **TO ORDER BY MAIL:**

**Porter International  
97 Rantoul Street  
Beverly, MA 01915 USA**

## **HAVE THIS INFORMATION READY:**

1. Machine Model Number
2. Part Number or complete part description
3. Customer Number
4. Person placing order
5. Bill To and Ship To addresses
6. Fax/Phone

## **PRICES AND TERMS:**

All prices are F.O.B. Beverly, MA, and are valid at the time of shipment.

All prices are list, unless otherwise noted.

Open account terms extended to firms with established credit.

Overseas orders must be paid before shipment unless otherwise noted.

## **SHIPPING:**

When ordering parts please state how the shipment is to be made: (UPS Red, Blue, Orange or Ground; Federal Express; air mail).

Freight charges are included on invoice.

If a customer is on C.O.D. status, shipping costs are included in the C.O.D. amount.

## **TAXES:**

Where the law requires, state sales and/or use taxes must be charged.

## **MINIMUM ORDERS:**

Due to the rising costs of handling orders, we have established a minimum order of \$25.00.

## **RETURNED GOODS:**

Porter International has a policy on returned parts which must be strictly adhered to.

1. All customers must call Porter to obtain a RMA (Returned Material Authorization) number. Parts returned without a RMA number will be returned to customer. We will not accept parts returned 60 days after authorization.
2. All parts to be returned must be shipped to Porter prepaid unless otherwise instructed by our Customer Service Department.
3. Credit for parts will be issued upon inspection by Porter and credited against your account.
4. A restocking charge of 15% will be issued on parts ordered incorrectly by the customer, unless otherwise noted.

## **CLAIMS:**

If a parcel post shipment reaches you in damaged condition, advise us *immediately* so that a claim can be filed. All parcel post packages are insured by Porter. If a truck, UPS or express shipment arrives damaged, request the driver to make a notation on the freight bill. If the damage was concealed at the time of delivery, call the carrier for an inspection and obtain a DAMAGE REPORT. This is necessary in order to file a claim. In the case of truck lines, customer must file the claim. We will give any needed assistance, but the carrier is responsible for the safe arrival of goods.



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