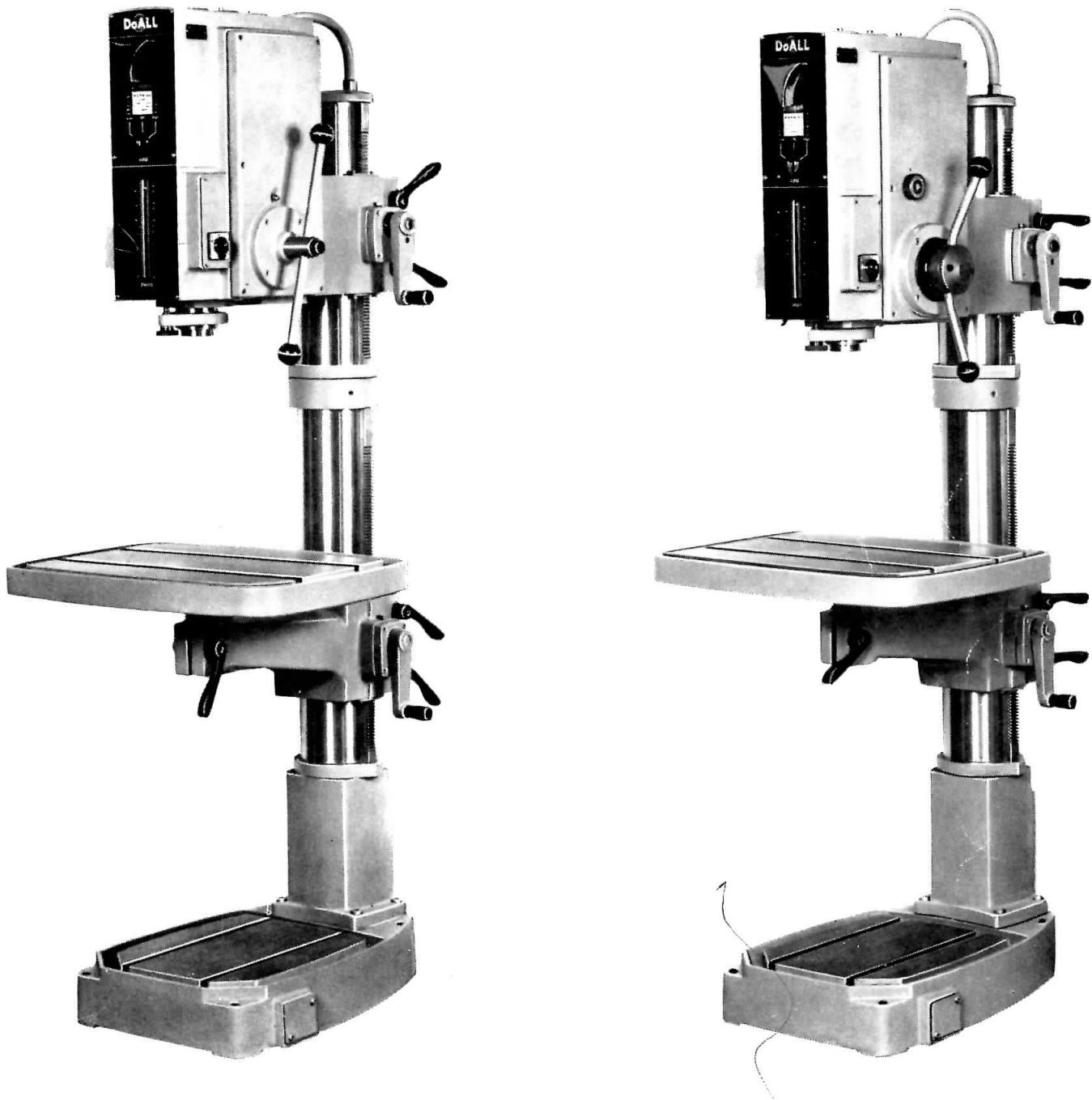


**GEARED HEAD DRILLING MACHINE  
MODEL DG—24 / DGP—24**



Your new geared head drilling machine is ideal for large capacity applications in machine shops, tool rooms, production lines, or wherever big hole drilling and close tolerances are required. Drilling diameters range up to 1-1/4" in mild steel with a 6-3/4" quill travel. The positive, geared head drive provides fast and accurate spindle speed selection.

# **GENERAL SPECIFICATIONS**

## Drilling capacities

Steel . . . . .	1 - 1/4 in. (30 mm)
Cast iron . . . . .	1 - 1/2 in. (40 mm)
Center of spindle to column . . . . .	12 - 3/16 in. (310 mm)
Spindle taper . . . . .	3 MT
Quill travel . . . . .	6 - 3/4 in. (170 mm)
Quill feeds (DGP-24 only) . . . . .	.004, .006 .010 ipr
Spindle speeds (12) . . . . .	90, 125, 180, 250, 355, 400, 560, 710, 800, 1120, 1680, and 3360 rpm
Motor . . . . .	2 speed, 1.9 / 1. 3 hp
Voltage . . . . .	230 or 460/60/3
Column dia. . . . .	5 - 1/2 in. (140 mm)
Table . . . . .	20 x 24 in. (510 x 610 mm)
Base . . . . .	16 - 1/8 x 25 - 3/4 (410 mm x 655 mm)

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LUBRICATION FREQUENCY		DROPS
A — SPEED BOX	DAILY	5
B — HEAD RAISING/LOWERING	WEEKLY	5
C — TABLE RAISING/LOWERING	WEEKLY	5
HAND FEED - DG 24	WEEKLY	5
D — POWER FEED - DGP 24	SEE TEXT	

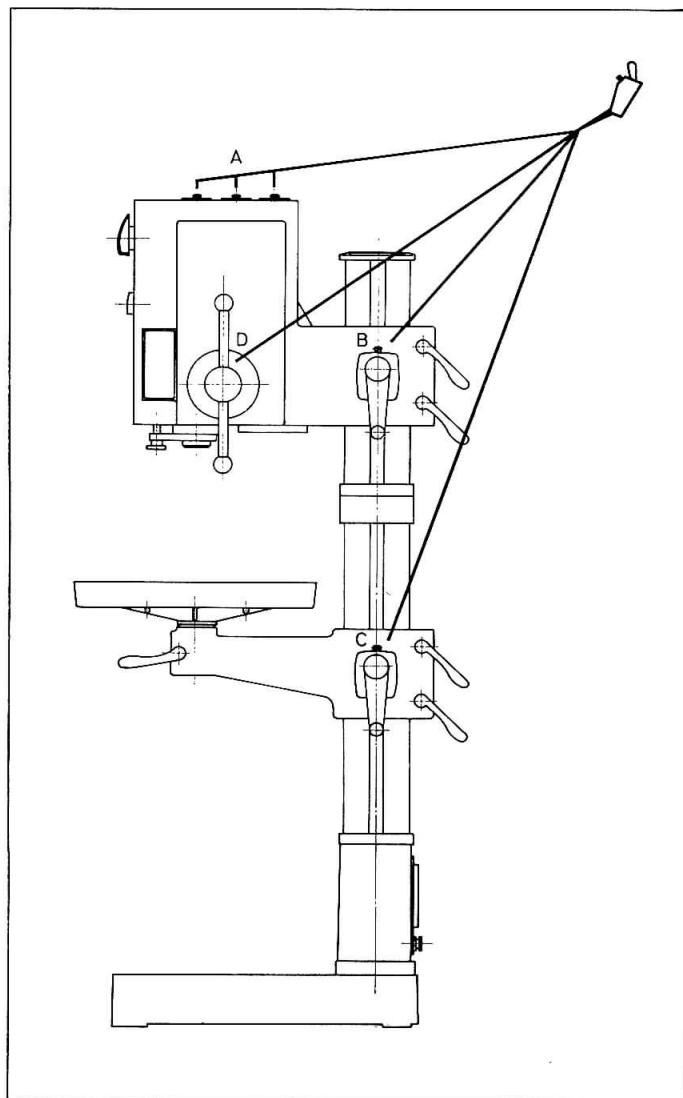


FIG. 2

## C. INSTALLATION

Place the machine on a level and firm foundation. Machine accuracies can only be achieved after the machine is leveled and fastened to the foundation. See Fig. 1 to select worksite and to locate floor mounting holes.

## D. LUBRICATION

Before operating, the machine must be lubricated on the oil points only. The Fig. 2 shows the machine which has more points of lubrication. Consider the lubricating points existing on your machine and proceed as follows:

### Machines with power feed

**Point A** — 5 drops of oil with viscosity SAE10 or 20 EVERY DAY.

**Point B and C** — 5 drops of oil with viscosity SAE10 or 20 EVERY WEEK.

**Point D** — about 400 gr of BP energrease LS2 or equivalent every 2.000 hours of operation, as follows:

1. Fasten the spindle at the top of the stroke by tightening spindle lock lever installed on the left side of the head.
2. Loosen the 4 screws which hold the

## E. ELECTRICAL CONNECTIONS

Your machine has been prewired according to voltage requirements specified at the time of ordering. However, it is important to check that the electrical characteristics of the machine (shcwn on the data plate) conform to your power source **before** connecting the power. If voltage specifications conform, then proceed as follows:

1. Remove power disconnect switch (Fig. 3) at rear base of machine by removing four screws holding it closed.
2. Number 14 wire must be used to bring power to the machine. Bring power cord into the electrical panel through hole and fitting provided at the rear of the machine.
3. Connect the 4 wires in the power cord to the four terminals provided at the bottom of the terminal strip, taking care to connect the ground wire to the proper ground terminal.
4. **IMPORTANT:** immediatly after connecting the machine to the power source, turn the machine on and check to see if the rotation of the spindle is correct. If the spindle is running in the wrong direction, interchange any two of the power leads.

flange (C) Fig. 6 of the power feed.

**CAUTION:** Be carefull with the flange which will turn out sharply due to the tension of the quill return spring.

3. Remove the power feed from the head.
4. Remove the existing energrease and replace.
5. Reassemble the power feed on the head. Before tightening the flange must be turned until the quill return spring is fully coiled. Then turn the flange twice in reverse direction to release some of the tension of the spring.

### Machines with hand feed only

**Point A** — 5 drops of oil with viscosity SAE10 or 20 EVERY DAY.

**Point B, C and D** — 5 drops of oil with viscosity SAE10 or 20 EVERY WEEK.

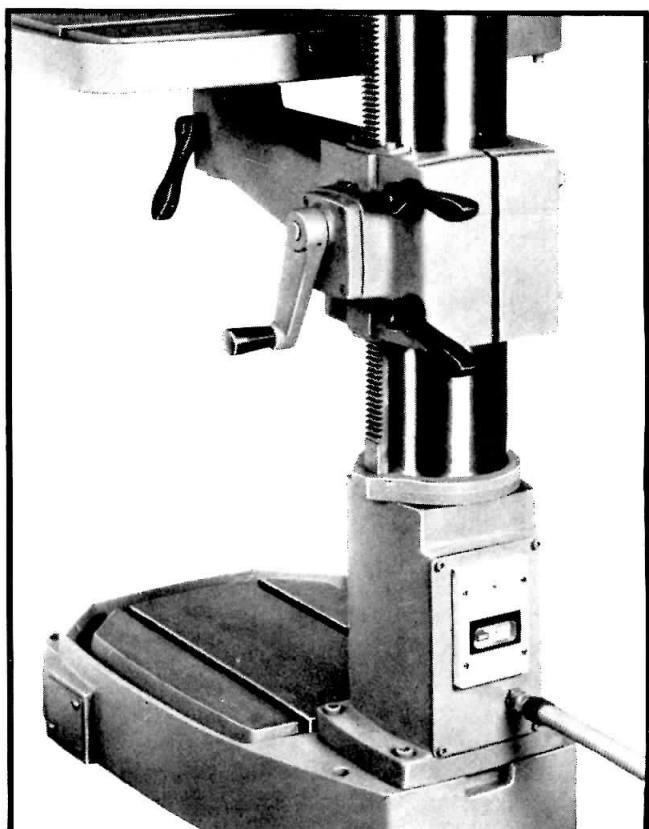


FIG. 3

## II. OPERATIONS

### A. HEAD CONTROLS

All controls for the head are located up front where they are easy to read and convenient to operate, as shown in Fig. 4. An experienced operator knows that there is always some difference between the location and type of control between different models, even though the purpose of the controls is similar between one machine and the other. The following is an explanation of the operation of these controls. Study these explanations carefully before turning on the power to avoid damage to the drill or personal injury.

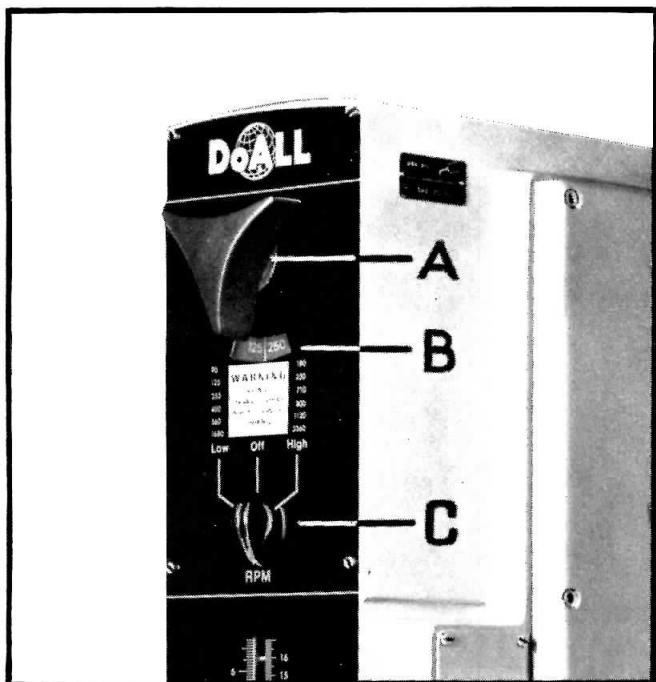


FIG. 5

### B. SPINDLE SPEED SELECTION

The spindle speed may be selected by turning the speed selector dial (A) Fig. 5, to the right or left until the desired speed appears on the speed dial (B). When the motor control knob (C) is turned to the LOW position, spindle speeds of 90, 125, 355, 400, 560 and 1680 rpm are available. When the motor control knob is turned to the HIGH position, spindle speeds of 180, 250, 710, 800, 1120, and 3360 rpm are available. CAUTION: NEVER CHANGE SPEED WHILE THE MACHINE IS RUNNING.

A safety device prevents speed changing with the machine running. Do not force it. Do not try to change speeds without having switched-off the motor by turning knob (C) to «O» position.

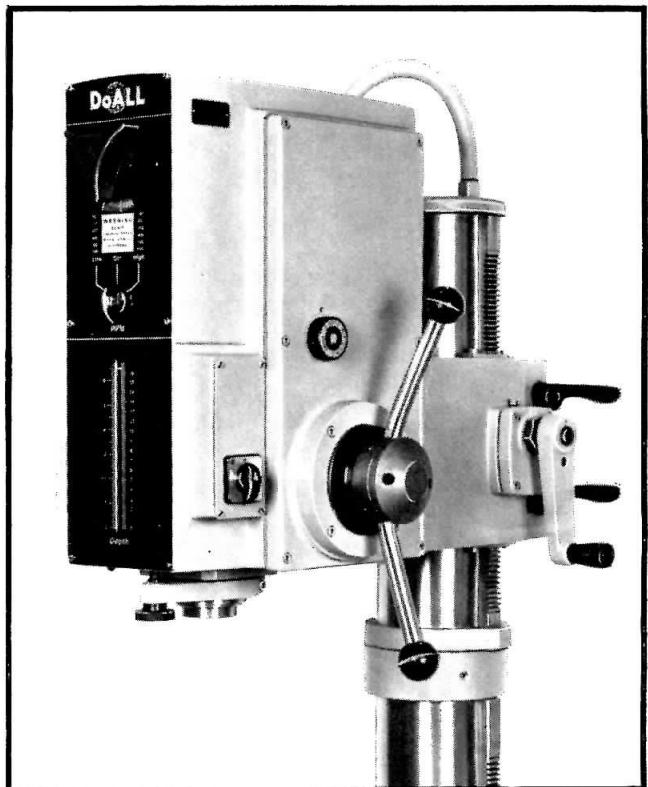


FIG. 4

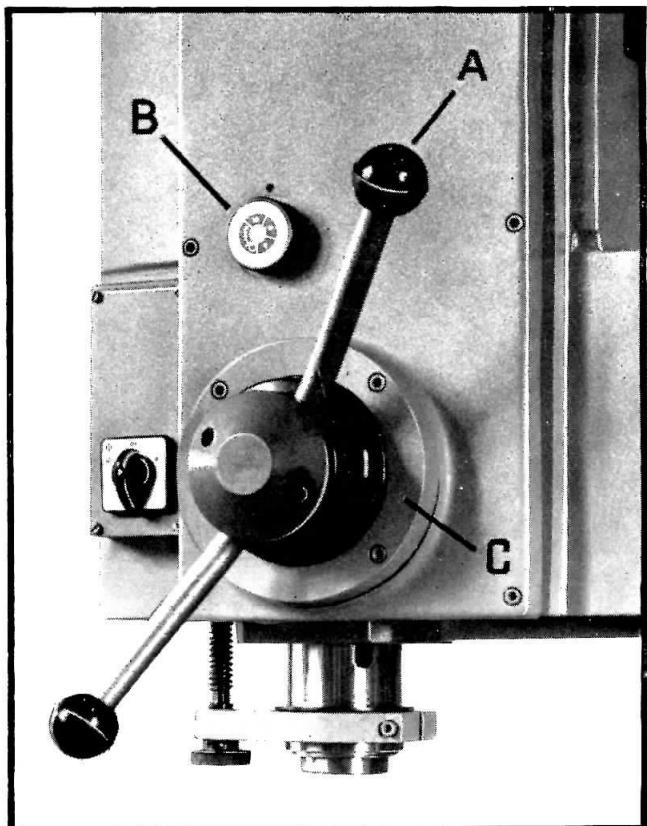


FIG. 6

### C. QUILL FEED SELECTION (MODEL DGP-24 ONLY)

The spindle can be operated by hand feed or power feed simply by positioning feed control lever (A) Fig. 6. When the feed control lever is in the «out» position the spindle can be lowered manually by hand. When the feed control lever is in the «in» position the power feed is engaged and the spindle lowers automatically. The power feed device provides feed rates of .004, .006 and .010 ipr (inches per revolution). The feed rate selection is made by turning the knob (B) Fig. 6 until the number of the feed rate desired is in the up position. This selection may be made while the machine is running but **not** under load.

The power feed may be disengaged at any time by pulling out the handle (A) Fig. 6. The power feed will also disengage automatically at the end of the pre-set stroke, however, the handle must be pulled out to return the quill to the up position.

### D. DEPTH SETTING CONTROL

To adjust the depth setting control, simply turn knob (A) Fig. 7, until line (B) on stop block is in line with the calibration on the depth scale (C) you wish to drill or tap.

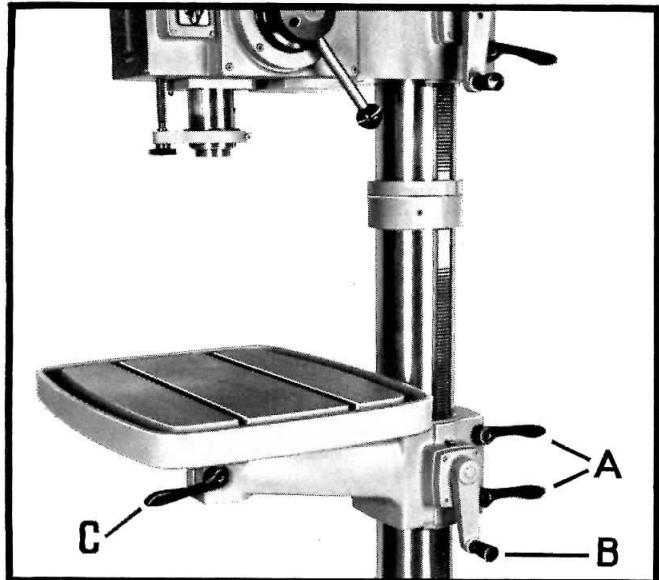


FIG. 8

### E. TABLE CONTROLS

The table on your machine is easily raised or lowered by loosening the two locking levers (A) Fig. 8, and turning handlelever (B) until the table is at the desired height. After table is at desired height tighten locking levers (A). Also, the table can be rotated 60° right or left by loosening locking lever (C) Fig. 8.

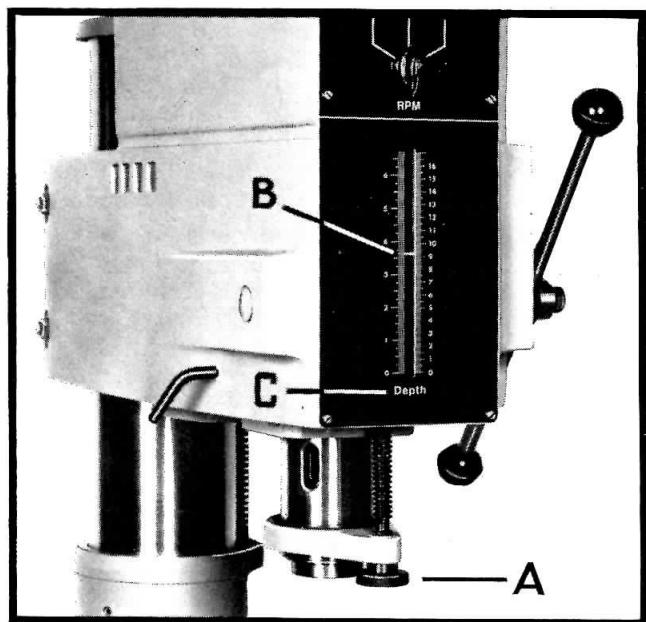


FIG. 7

### F. HEAD RAISING/LOWERING

The head on your machine is easily raised or lowered by loosening the two locking levers (A) Fig. 9 and turning and pushing simultaneously towards the head hand lever (B) until the head is at the desired height. After the head is at the desired height, tighten locking levers (A).

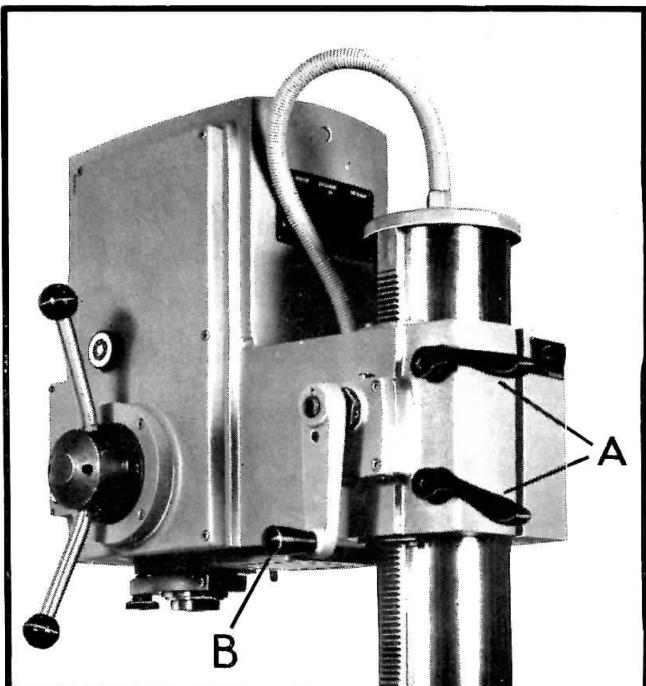


FIG. 9

### III. ADJUSTMENTS

#### A. REPLACING QUILL RETURN SPRING

##### DGP-24

To replace the quill return spring proceed as follows:

1. Fasten the spindle at the top of the stroke by tightening spindle lock lever installed on the left side of the head.
2. Loosen the 4 screws which hold the flange (A) Fig. 10 of the power feed. CAUTION: If the spring is not damaged the flange will turn out sharply due to the tension of the spring.
3. Remove the power feed assembly from the the head.
4. Remove the helical wheel (B) towards the pinion and remove the 2 engaging pins (C), the ring (D) and the 2 half-moons (E).
5. Remove the flange (A) carefully (the broken spring may jump out at any time).
6. Remove the quill return spring (F). Note that the inside limit of the quill return spring is fixed to the collar with a screw which has to be removed.
7. Insert new spring by fixing the inside limit. Coil the quill return spring inside the flange and then fix the other limit to the pin.
8. Reset and install the power feed assembly into the head. Before mounting the flange with the 4 screws you should adjust the spring, as follows:
  - a) After the assembly is installed on the head turn the flange until the spring is fully coiled.
  - b) Release some tension by turning the flange twice in reverse direction.
  - c) Mount the flange.
9. Loosen the spindle lock lever and check the functioning.

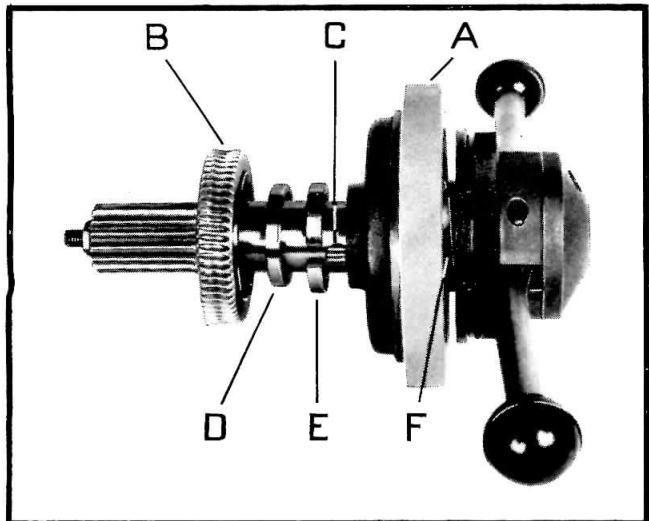


FIG. 10

##### DG-24

1. Fasten the spindle at the top of the stroke by tightening the spindle lock lever installed on the left side of the head.
2. Loosen the screws which hold the side cover (A) Fig. 11 of the head where the hand feed is installed and remove the cover. CAUTION: If the spring is not broken when the shaft pinion disengages from the spindle rack the hand feed lever will drop sharply.
3. Loosen the screws which hold the flange (B).
4. Remove the flange from the cover carefully (the broken spring may jump out at any time) and remove the quill return spring (C). Note that the inside limit is fixed to the collar with a screw.
5. Insert new spring and reinstall the set cover/hand feed.
6. Before reassembling the set cover/hand feed into the head adjust the spring as follows:
  - a) Turn the feed lever until spring is fully coiled.
  - b) Release some tension by turning the flange twice in reverse direction.

After the assembly is installed release the spindle lock lever and check the functioning.

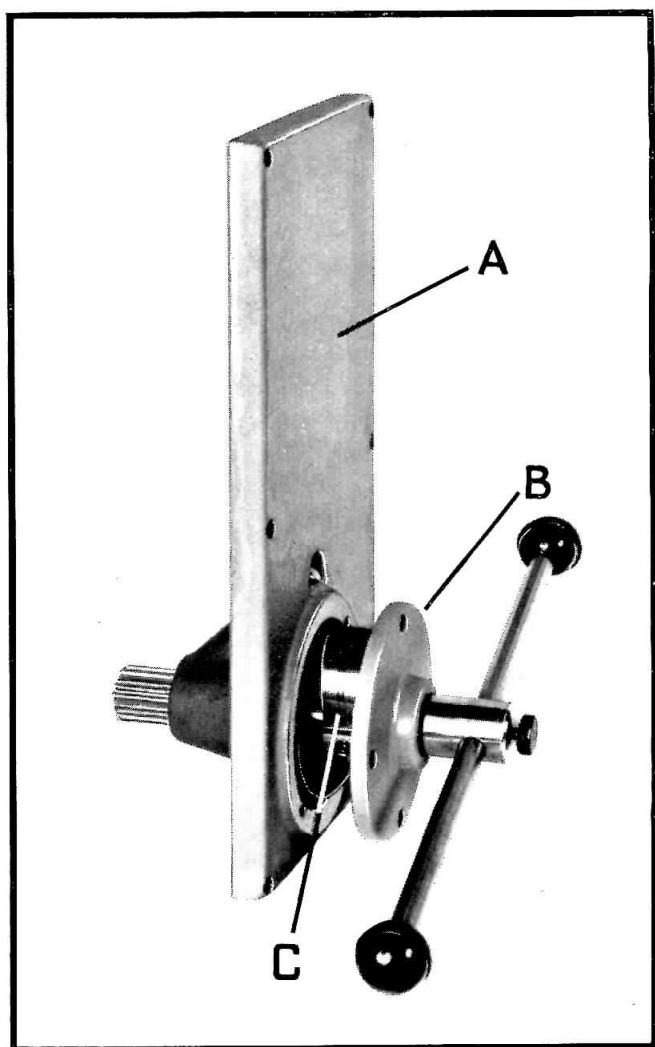
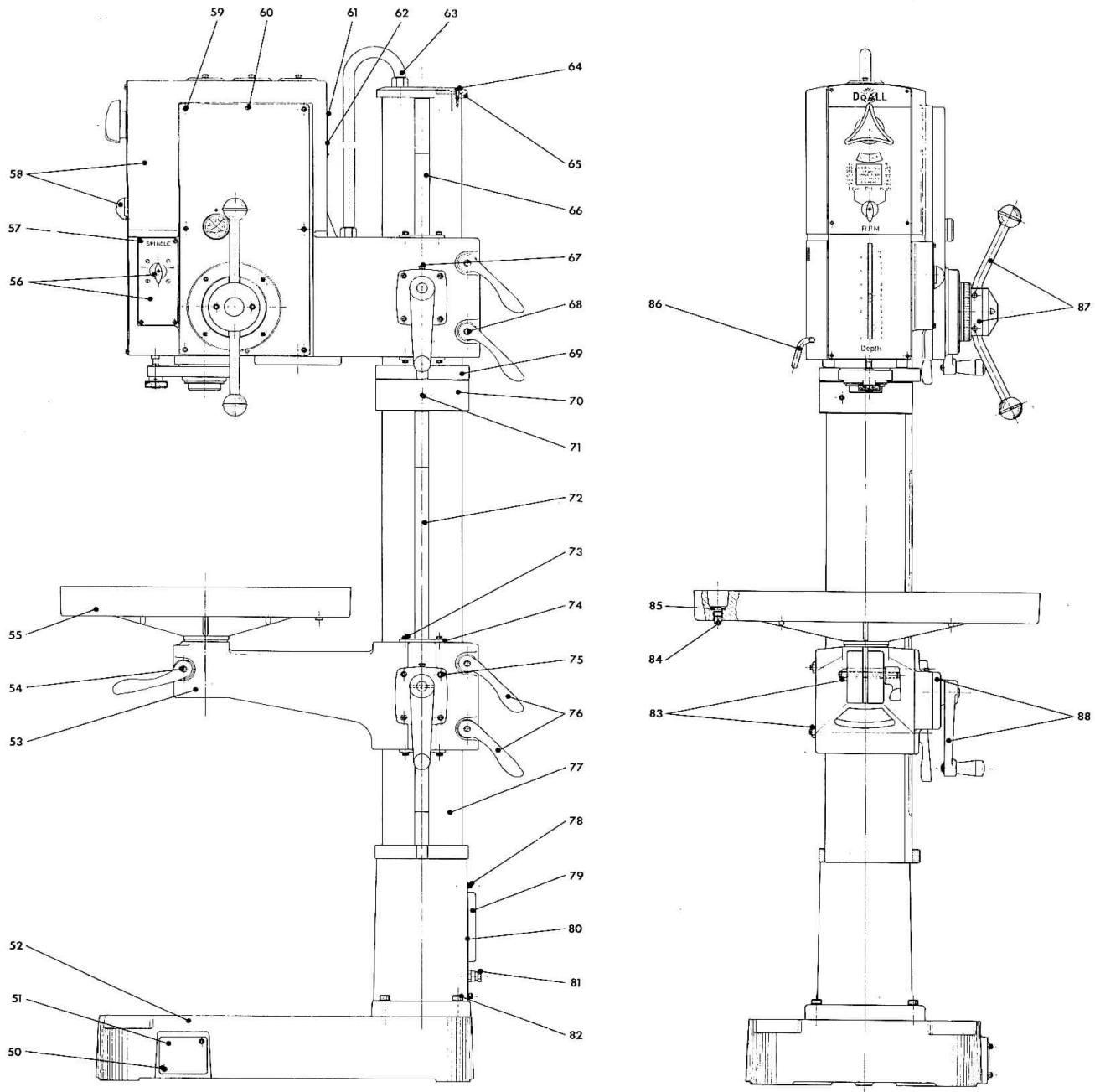
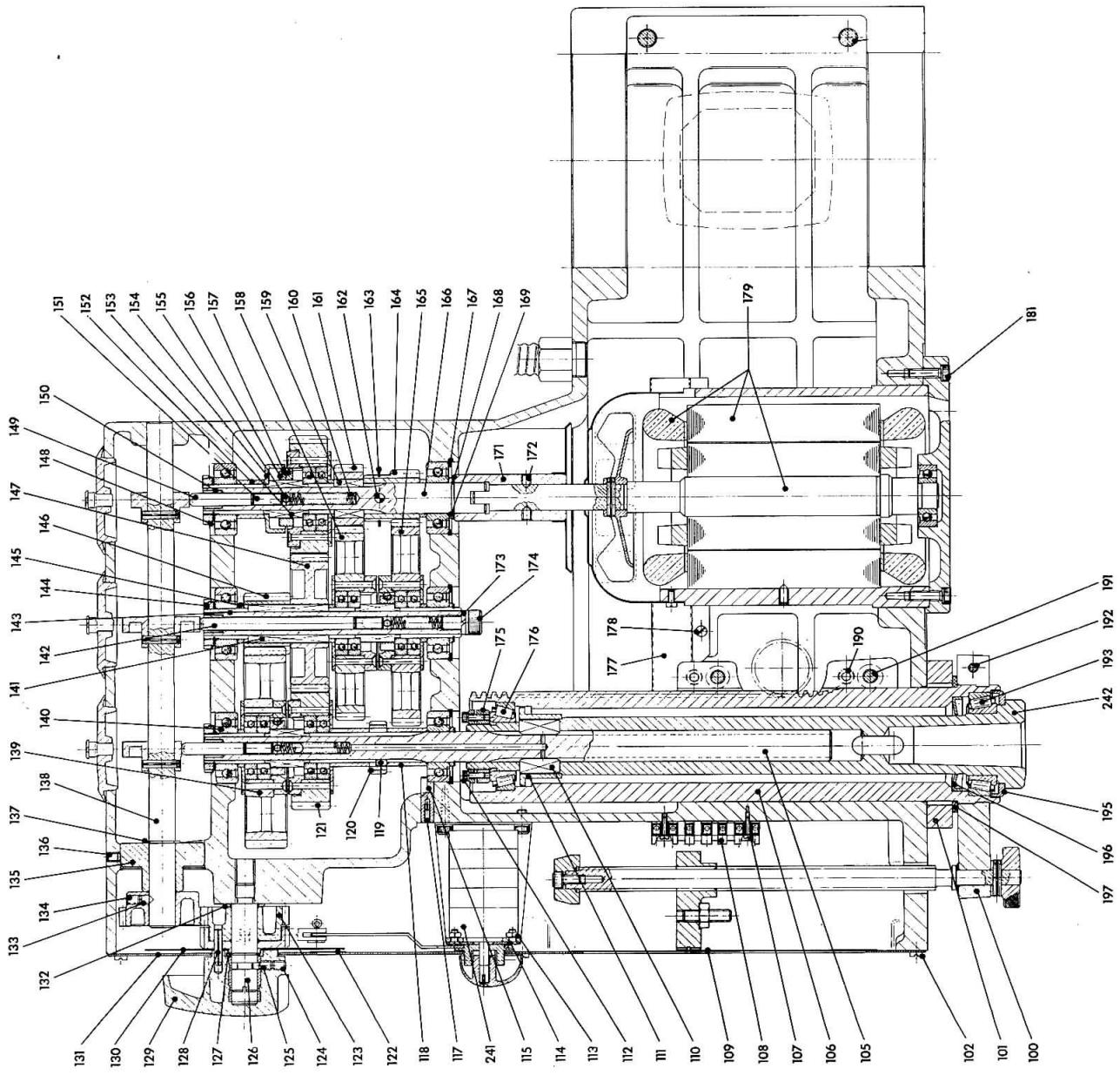
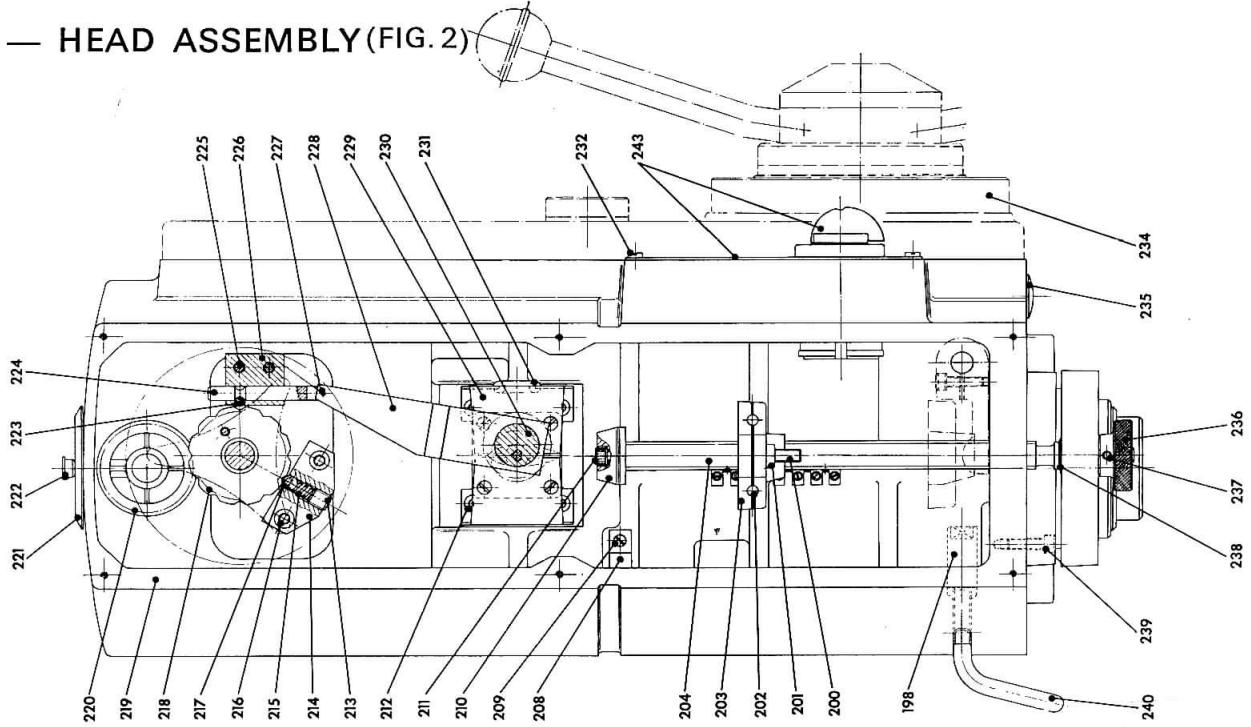


FIG. 11

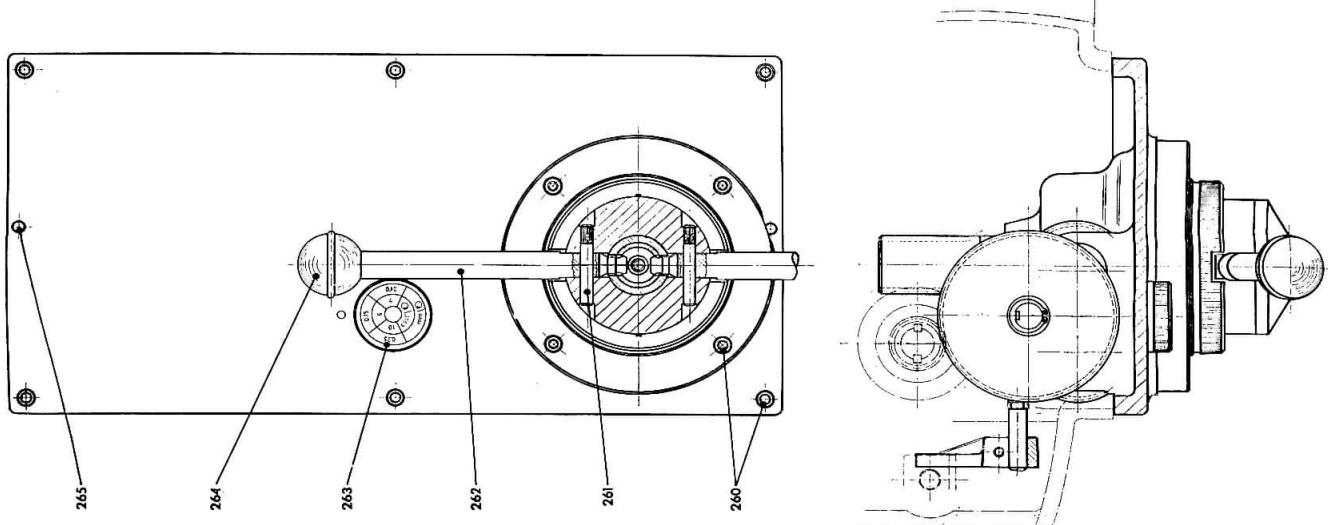
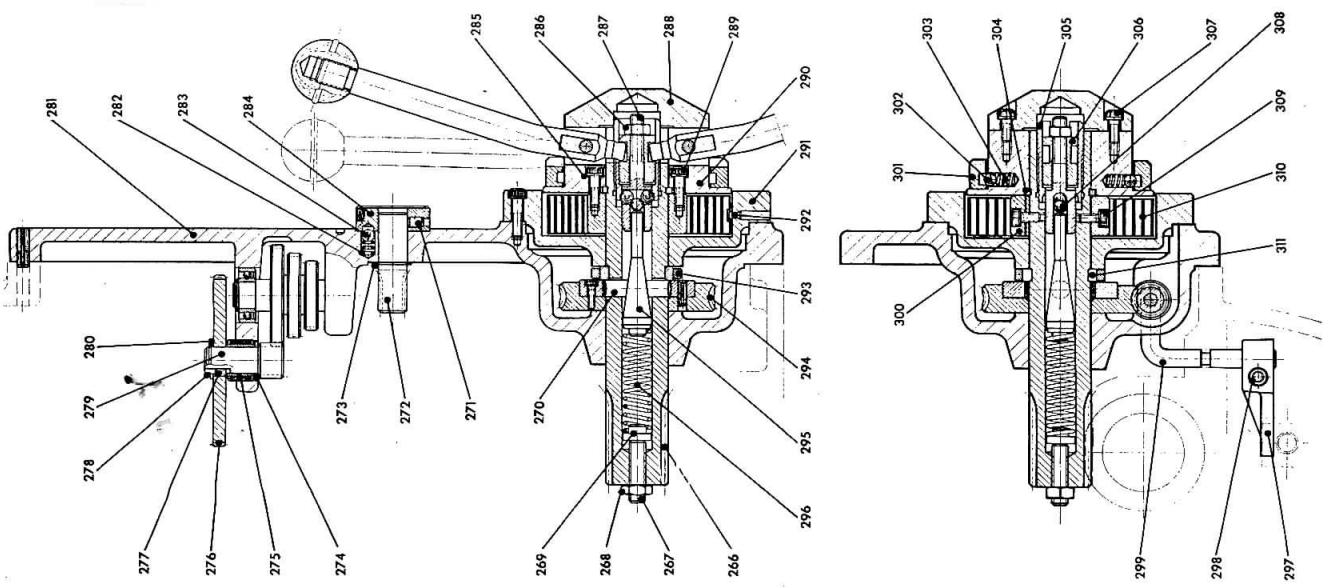
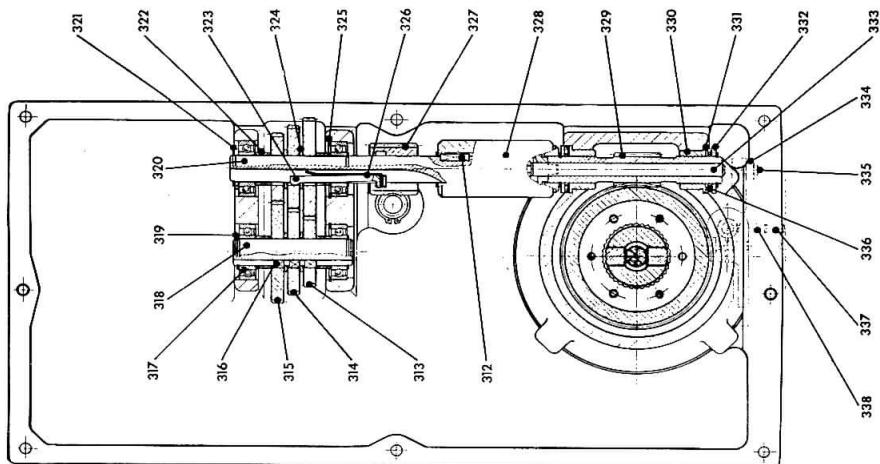
# A — GENERAL ASSEMBLY (FIG. 1)



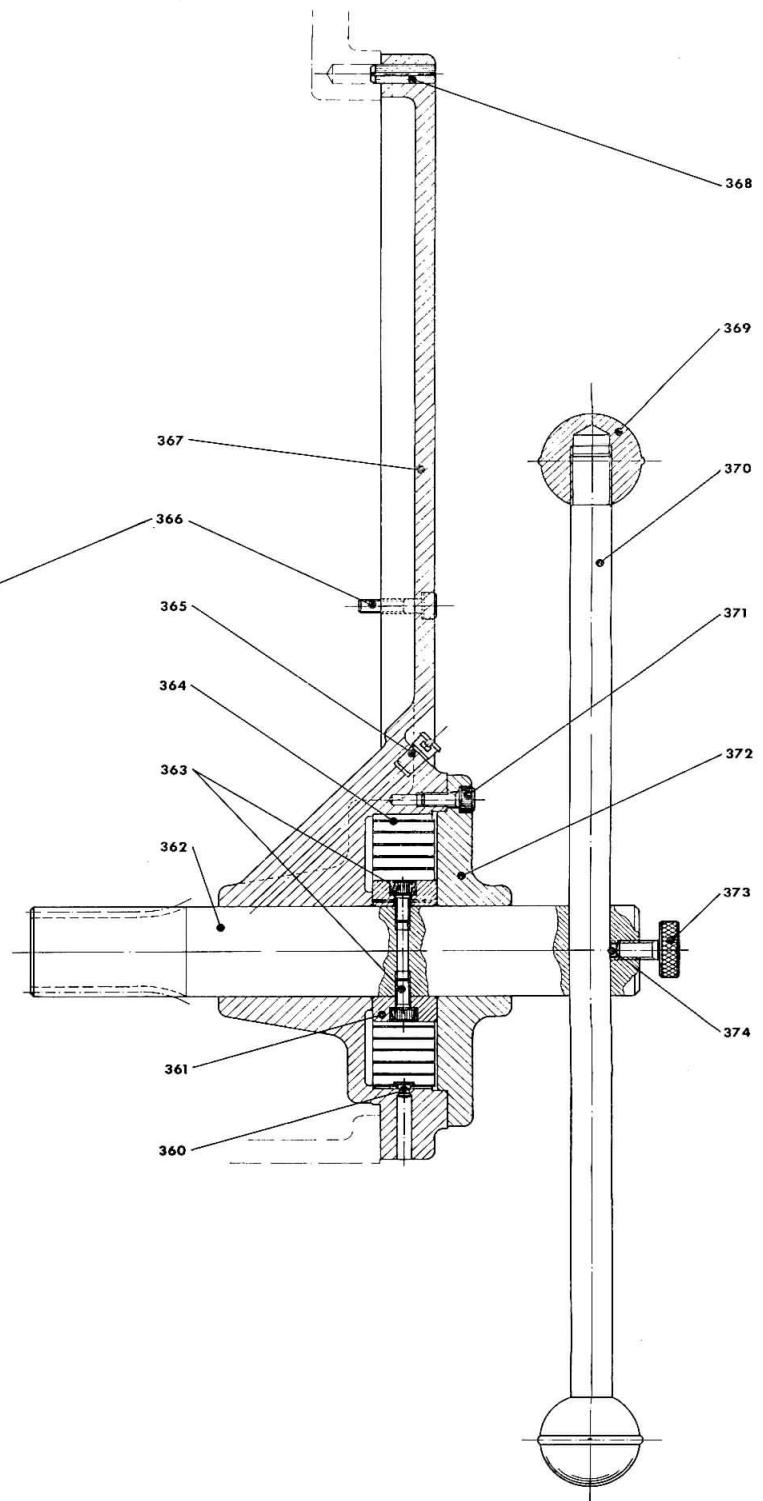
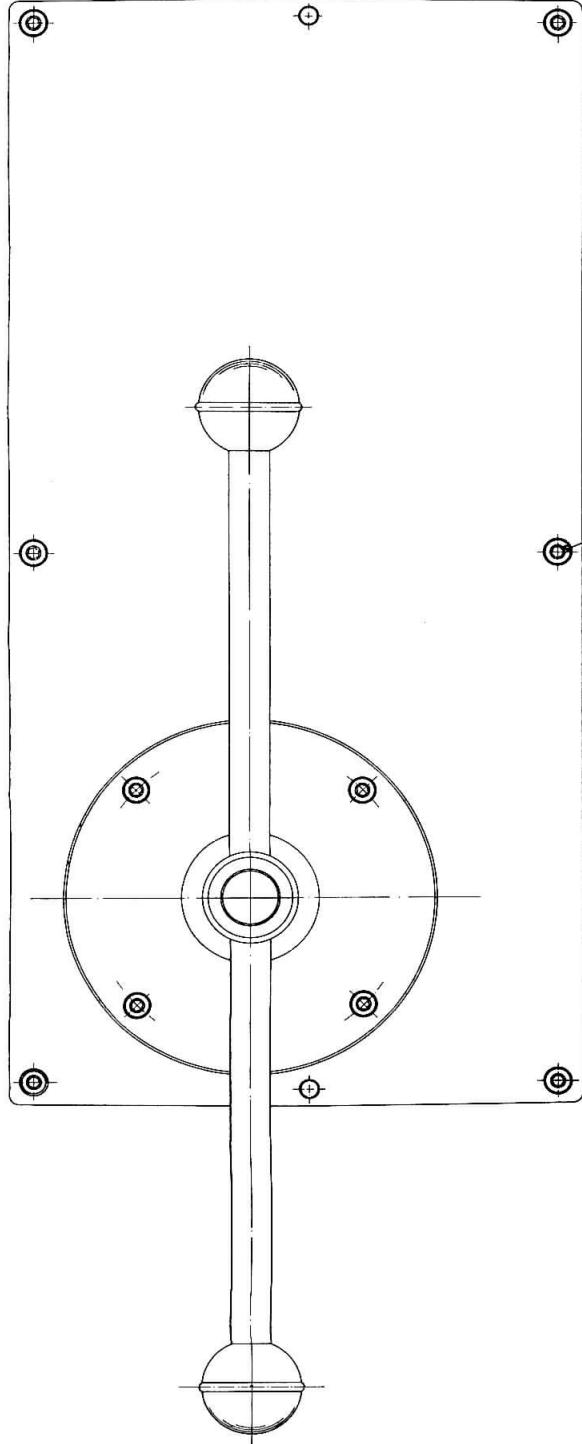
**B — HEAD ASSEMBLY (FIG. 2)**



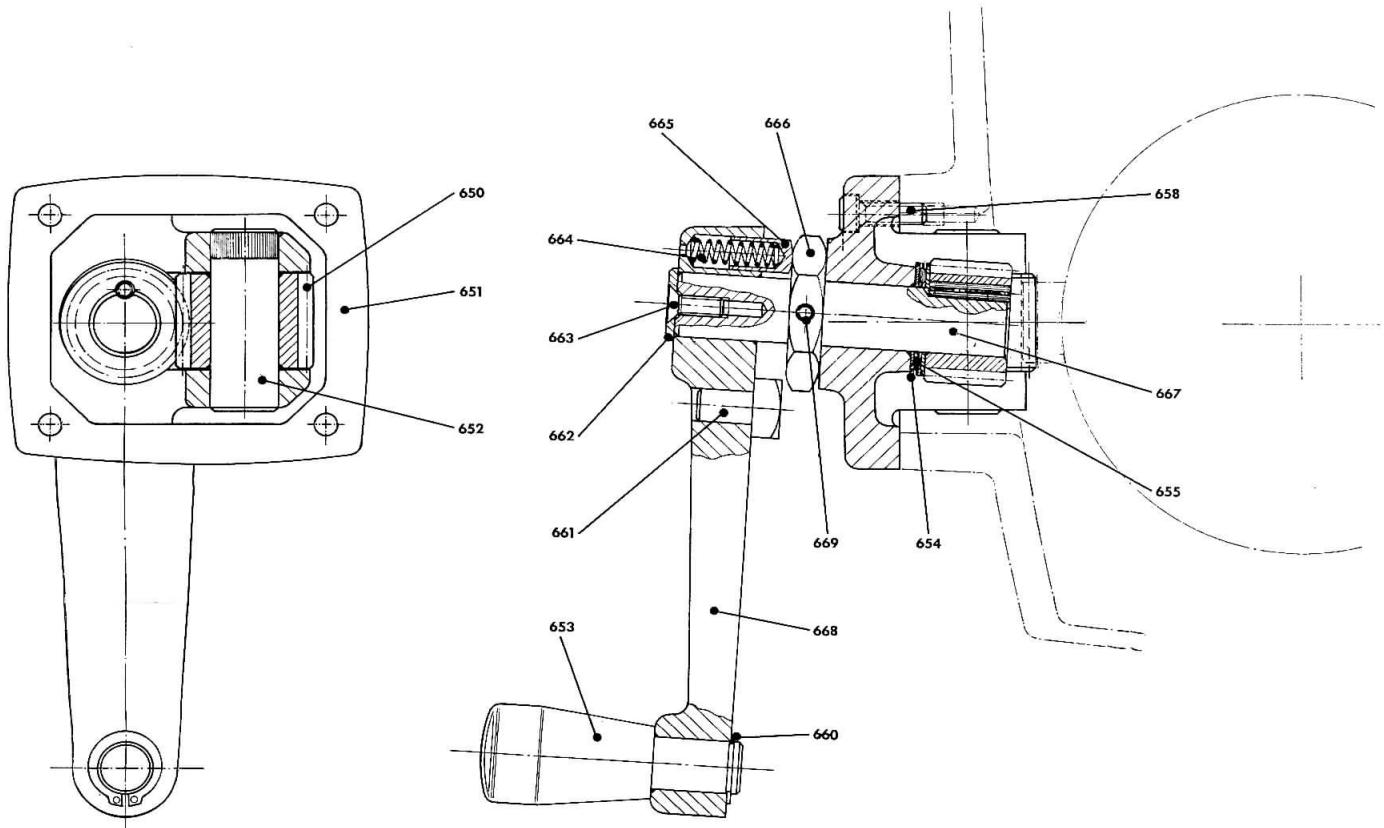
## C — SPINDLE MECHANICAL FEED (FIG. 3)



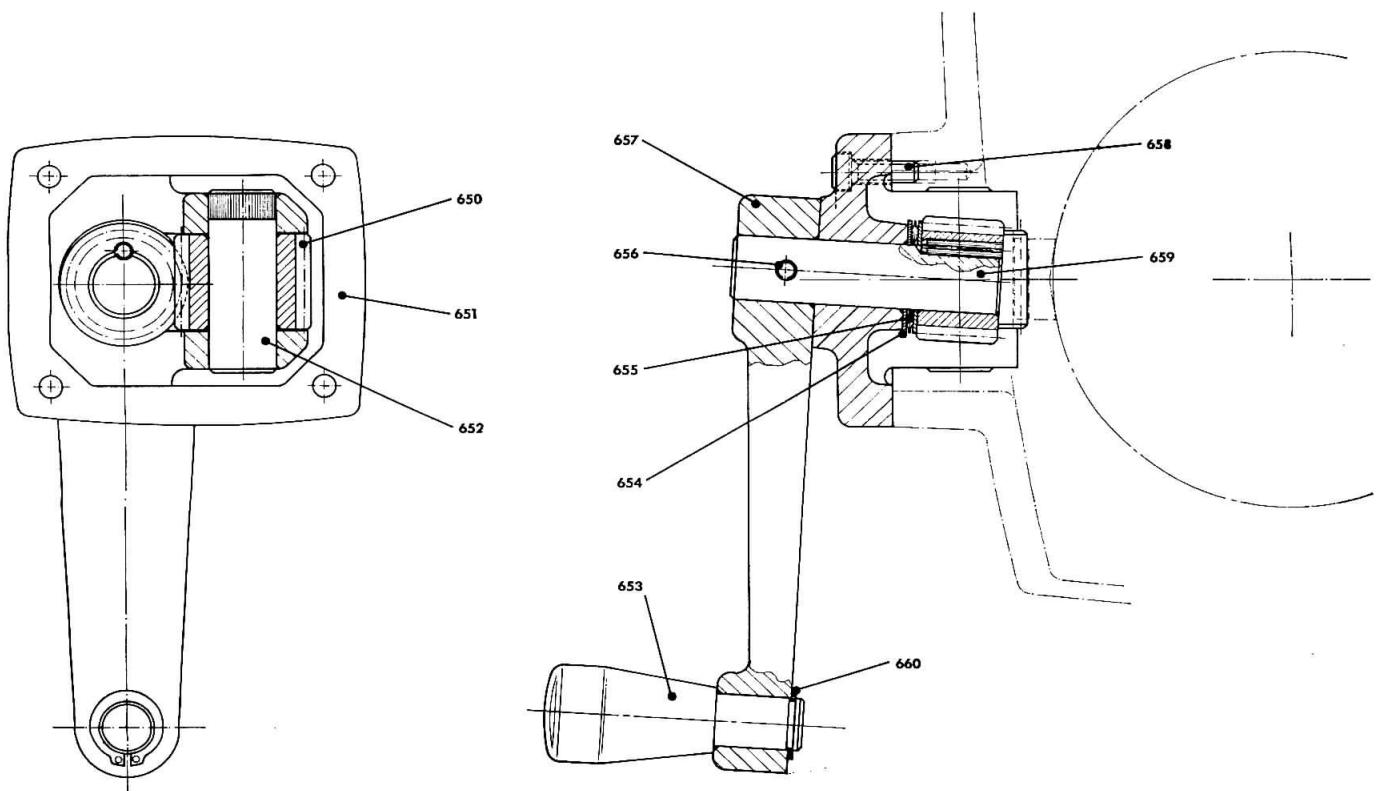
D — SPINDLE HAND FEED (FIG. 4)



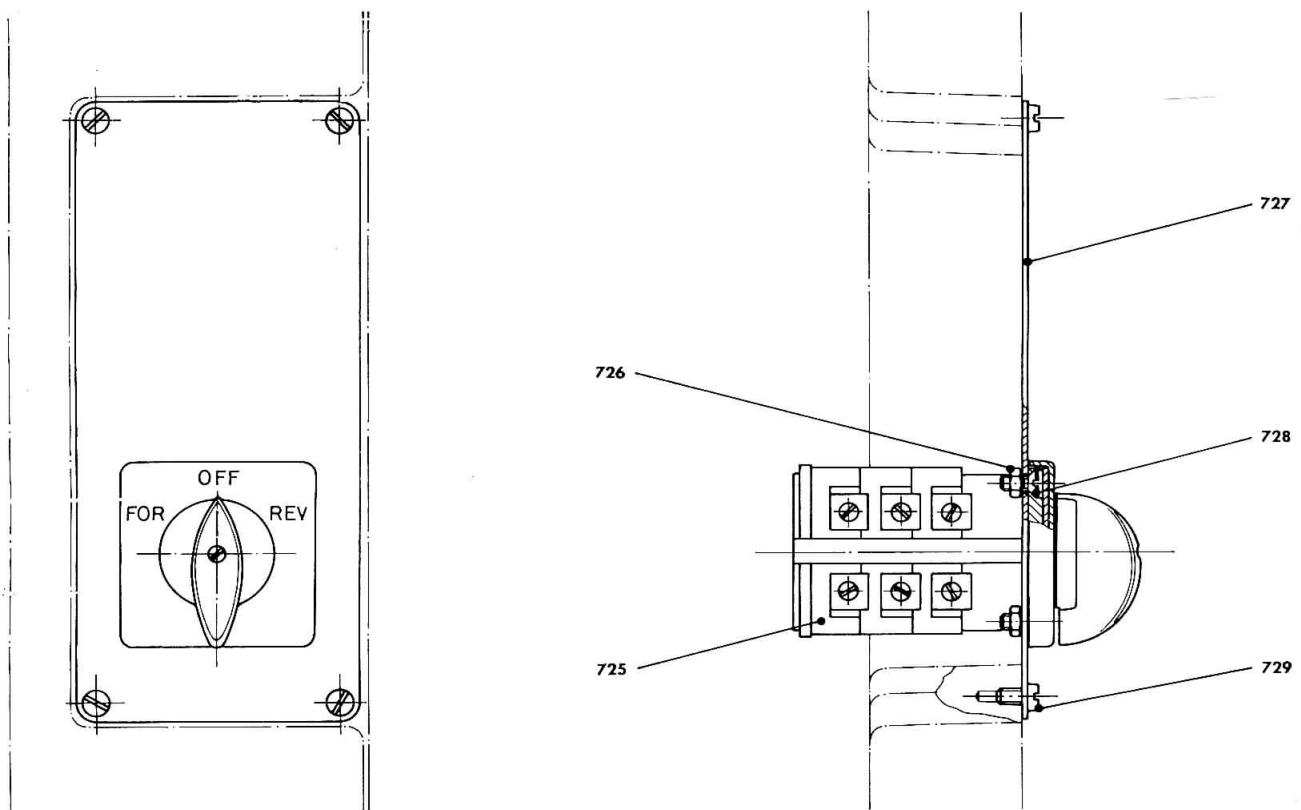
**E — HEAD RAISING FEED (FIG. 5)**



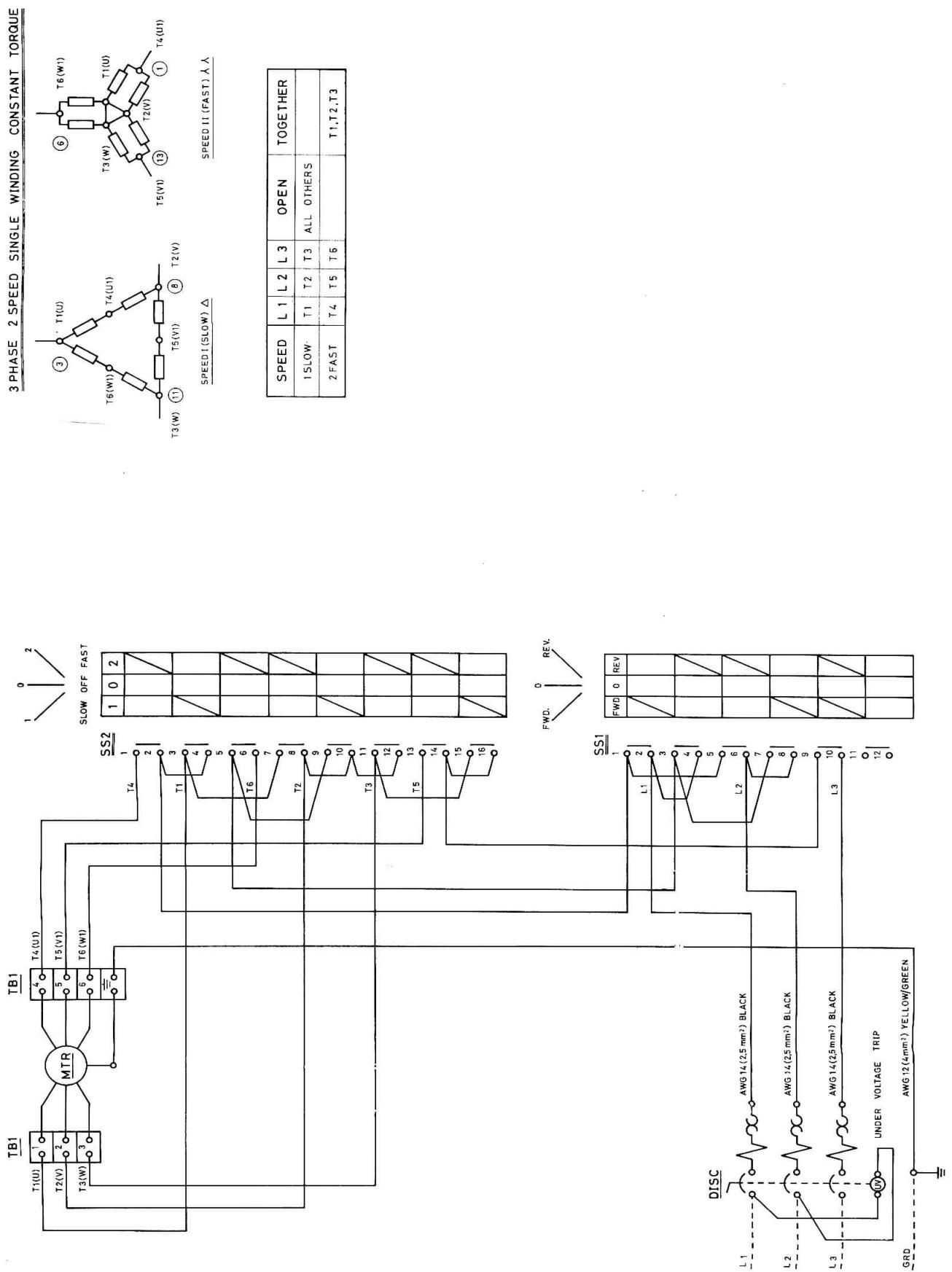
**F — TABLE RAISING MECHANISM (FIG. 6)**



G — LATERAL HEAD PLATE (FIG. 7)



## H — ELECTRICS (FIG. 8)



## COMPONENT LIST

— 50HZ —

ITEM	NAME AND FUNCTION	MFG	APPROVALS	CATALOG NUMBER	CAT. NUMBER INSERT				CAT. NUMBER INSERT								
					220	380	415	500	208	240	480	600	220	380	420	500	
DISC	DISCONNECT WITH PROTECTION CIRCUIT BREAKER	K - M	UL/CSA	PKZMO — ..... / e + G + U ..... V ..... Hz (* 9037250 ..)	10/220 50	6/380 50 (....331)	4/420 50	4/500 50	10/200 60 (....328)	6/230 60 (....327)	4/460 60 (....326)	2,4/575 60 (....323)					
SS 1	SELECTOR SWITCH FOR FWD AND REV	K - N	UL/CSA	C11-A441 - E WITH ESCUTCHEON PLATE F093 (* 9037251013)	—	—	—	—	—	—	—	—					
SS 2	SELECTOR SWITCH FOR SLOW AND FAST SPEED	K - N	UL/CSA	C11-A441-E WITH 3 POSITIONS (1,0,2) (* 9037250910)	—	—	—	—	—	—	—	—					
TB 1	TERMINAL BLOCK	APRILE	—	REF 503 (* 9037200324)	—	—	—	—	—	—	—	—					
MTR	3 PHASE MOTOR WITH 2 SPEED 50HZ-1500/3000 RPM 60HZ-1800/3600 RPM	RABOR	—	3 PHASE MOTOR ..... V ..... Hz 0,96/1,4 KW (* PZ 80 PM 200 ..)	220/50 (....283)	380/50 (....284)	420/50 (....285)	500/50 (....327)	200/60 (....286)	230/60 (....287)	460/60 (....284)	575/60 (....289)					

## GENERAL ASSEMBLY

Pos.	Catalog Number	Item Description
050	743-603755	FY screw 6x10 DIN912
051	743-706954	Cover
052	743-701005	Base
053	743-701153	Table support arm
054	743-747156	Bolt
055	743-706459	Table 20x24
056	<b>PLS SEE FIG. 6/7</b>	
057	743-605701	Screw slot 4x8 DIN7513
058	<b>PLS SEE FIG. 2</b>	
059	743-603953	FY screw 6x25 DIN912
060	743-603003	HTP tense pin 8x26 DIN1481
061	743-608002	Rivet 2x5 DIN1476
062	743-660433	Réference plate
063	743-706509	Complete pipe PG-16
064	743-603854	FY screw 6x16 DIN912
065	743-692808	Cover — upper column
066	743-730202	Upper rack
067	743-627606	Lubricator M8 DIN3410E
068	743-746703	Bolt
069	743-692758	Rack guide
070	743-730301	Column ring
071	743-606956	FXD screw 10x16 DIN915
072	743-705451	Rack
073	743-603805	FY screw 6x12 DIN912
074	743-683401	Rack guide
075	743-603904	FY screw 6x20 DIN912
076	743-731259	Handle
077	743-700759	Column
078	743-603755	FY screw 6x10 DIN912
079	743-623803	PKZMO-10/E+G+U 200V60NA
079	743-623753	PKZMO-6/E+G+U 230V60NA
079	743-623704	PKZMO-4/E+G+U 460V60NA
079	743-623555	PKZMO-2.4/E+G+U 575V60NA
079	743-623829	PKZMO-10/E+G+U 380V50NA
080	743-733156	Table plate
081	743-622458	Complete gland PG-11
082	743-604605	FY screw 12x50 DIN912
083	743-607657	FN Hexnut M12 DIN934
084	743-618209	Plug 3/8 G
085	743-666851	Strainer
086	743-704058	Handle

Pos.	Catalog Number	Item Description
087	PLS SEE FIG. 3 FOR DGP-24	
087	PLS SEE FIG. 4 FOR DG-24	
088	PLS SEE FIG. 5/6	

## HEAD ASSEMBLY

Pos.	Catalog Number	Item Description
100	743-698854	PF05309-3
101	743-729501	PFPM300399
102	743-605701	9019030204
105	743-750998	PFPM401359
106	743-725053	PFPM200273
107	743-604951	9019010208
108	743-622201	9037200324
109	743-693152	PF04088-4
110	743-743106	PFPM400607
111	743-745200	PFPM400809
112	743-603607	9019000001
113	743-607509	9025000002
114	743-605602	9019020406
115	743-707309	PF05866-4
117	743-606022	9022000201
118	743-699555	PF05329-4
119	743-699951	PF05349-4
120	743-699100	PF05318-4
121	743-700684	PF05392-4
122	743-744559	PFPM400749
123	743-699654	PF05340-4
124	743-606055	9022000400
125	743-606709	9022020402
126	743-743205	PFPM400612
127	743-600157	9001000012
128	743-602856	9013040312
129	743-729006	PFPM300364
130	743-659559	PE01PM400962
130	743-659450	PE01PM400614
131	743-659302	PE01PM200447
131	743-660417	PE01PM401306
132	743-741506	PFPM400368
133	743-606600	9022010400
134	743-606055	9022000400
		FXC screw 6x8 DIN914
		FX screw 6x8 DIN913

Pos.	Catalog Number	Item Description
135	743-749301	Sleeve
136	743-607251	FXW screw 6x8 DIN916
137	743-600157	CE retainer 16-E DIN471
138	743-733107	Cam shaft
139	743-700668	Gear T-52
140	743-619306	Bearing 6204-RS
141	743-603458	KR key 5x5x50 DIN6885
142	743-699803	Rod
143	743-750978	Intermediate shaft
144	743-607855	Bearing nut KM4
145	743-690802	Spacer
146	743-699050	Gear T-13
147	743-699258	Gear T-34
148	743-602203	Bearing washer MB-4
149	743-699852	Rod
150	743-637803	Self lubricator 8x12x12
151	743-678005	Plug
152	743-702508	Spacer
153	743-699902	Key
154	743-699209	Spacer with box
155	743-602757	HTP tense pin 4x30 DIN1481
156	743-699506	Sliding coupling
157	743-620007	SB steel bali M5 DIN5401
158	743-700627	Gear T-49
159	743-603425	Key 5x5x56 DIN6885
160	743-668402	Spring
161	743-699001	Gear T-16
162	743-602500	PD dowell pin 6x24 DIN7
163	743-600355	CE retainer 30-E DIN471
164	743-699159	Gear T-12
165	743-700643	Gear T-53
166	743-750986	Main shaft
167	743-600801	CB retainer 47-I DIN472
168	743-600306	CE retainer 20-E DIN471
169	743-740508	Spacer
171	743-707259	Union
172	743-606600	FXC screw 6x8 DIN914
173	743-601809	Lock washer M10 DIN127B
174	743-604357	FY screw 10x16 DIN912
175	743-745259	Special nut
176	743-620304	Bearing LM67048/LM67010
177	743-725806	Drain

Pos.	Catalog Number	Item Description
178	743-605701	Screw slot 4x8 DIN7513
179	743-787053	Motor 200V/60Hz
179	743-787103	Motor 230V/60Hz
179	743-787004	Motor 460V/60Hz
179	743-787152	Motor 575V/60Hz
179	743-787004	Motor 380V/60Hz
181	743-603904	FY screw 6x20 DIN912
190	743-607004	FXD screw 10x30 DIN915
191	743-604506	FY screw 10x50 DIN912
192	743-604050	FY screw 6x40 DIN912
193	743-620254	Bearing IM300849/IM300811 C2
195	743-745309	Cover
196	743-602252	Bearing washer M-007
197	743-706483	Ring
198	743-693202	Pin
200	743-606204	FX screw 8x30 DIN913
201	743-607608	FN hexnut M8 DIN934
202	743-648008	Rubber cord M6
203	743-732802	Index stop
204	743-732950	Limit stop — lead screw
208	743-668352	Clamp
209	743-605701	Screw slot 4x8 DIN7513
210	743-696007	Stop
211	743-603755	FY screw 6x10 DIN912
212	743-603755	FY screw 6x10 DIN912
213	743-606253	FX screw 10x10 DIN913
214	743-747057	Locator body
215	743-668253	Spring
216	743-604001	FY screw 6x30 DIN912
217	743-620056	SB steel ball M8 DIN5401
218	743-699647	Safety ring
219	743-721151	Head casting
220	743-693251	Gear T-25
221	743-687006	Cover
222	743-627606	Lubricator M8 DIN3410E
223	743-620007	SB steel ball M5 DIN5401
224	743-699753	Safety piston
225	743-604001	FY screw 6x30 DIN912
226	743-699704	Safety nucleus
227	743-603102	Cotter pin 3x15 DIN94
228	743-744500	Brakeshaft plate
229	743-733008	Support plate

Pos.	Catalog Number	Item Description
230	743-682304	PE52PM300623 Cam
231	743-625451	Rubber wireway N4-12x20
232	743-605701	Screw slot 4x8 DIN7513
234	PLS SEE FIG. 3	
235	743-648172	9099000821 Plug
236	743-693103	PF04086-4 Knob
237	743-602856	9013040312 HTP tense pin 5x24 DIN1481
238	743-601908	9010050012 Disc spring 8-20 DIN2093
239	743-603904	9019000405 FY screw 6x20 DIN912
240	743-704058	PF05631-4 Handle
241	743-624702	9037250910 Pole change
242	743-725152	PFPM200275 Spindle nose MT-3
243	PLS SEE FIG. 6/7	

## SPINDLE MECHANICAL FEED

Pos.	Catalog Number	Item Description
260	743-603953	9019000407 FY screw 6x25 DIN912
261	743-690257	PF00459-4 Pin
262	743-693558	PF04367-3 Lever
263	743-659658	PE01PM401143 Feed plate
264	743-688251	PE5900148 Bakelite ball M16
265	743-603003	9013040513 HTP tense pin 8x26 DIN1481
266	743-729303	PFPM300388 Spindle control shaft
267	743-606352	9022000810 FX screw 10x50 DIN913
268	743-607756	9025010112 Low hexnut M10 DIN439
269	743-709008	PF06043-4 Wedge
270	743-708851	PF06040-3 Pin
271	743-607301	9022030401 FXW screw 6x10 DIN916
272	743-700007	PF05354-4 Selector shaft
273	743-600256	9001000014 CE retainer 18-E DIN471
274	743-741506	PFPM400368 Spacer
275	743-619702	9034770010 Needle sleeve HKI 1716
276	743-699308	PF05322-3 Gear T-86
277	743-699951	PF05349-4 Key
278	743-600207	9001000013 CE retainer 17-E DIN471
279	743-700304	PF05365-4 Gear T-17
280	743-741506	PFPM400368 Spacer
281	743-698557	PF05293-0 Main cover
282	743-668253	PE03PM400249 Spring
283	743-620056	9034850112 SB steel ball M8 DIN5401

Pos.	Catalog Number	Item Description
284	743-702557	Knob
285	743-601643	WN washer M6 DIN125
286	743-607608	FN Hexnut M8 DIN934
287	743-708950	Brake block
288	743-747107	Cover
289	743-603904	FY screw 6x20 DIN912
290	743-731556	Ring
291	743-729352	Spring box
292	743-693004	Engaging pin
293	743-744906	Lock ring
294	743-729402	Worm wheel
295	743-708901	Piston
296	743-668451	Spring
297	743-744856	Arm
298	743-603904	FY screw 6x20 DIN912
299	743-744807	Lever
300	743-706400	Spring fixing ring
301	743-731507	Locating ring
302	743-620056	SB steel ball M8 DIN5401
303	743-668253	Spring
304	743-747552	Half-ring
305	743-709057	Adjusting sleeve
306	743-694705	Cone control connector rod
307	743-603854	FY screw 6x16 DIN912
308	743-620056	SB steel ball M8 DIN5401
309	743-603805	FY screw 6x12 DIN912
310	743-745457	Spring
311	743-744955	Half-ring
312	743-603409	KR key 5x5x18 DIN6885
313	743-699456	Gear T-34
314	743-699407	Gear T-42
315	743-699357	Gear T-50
316	743-699951	Key
317	743-619157	Bearing 6003-Z
318	743-700056	Intermediate shaft
319	743-600207	CE retainer 17-E DIN471
320	743-732406	Outlet shaft
321	743-741506	Spacer
322	743-700106	Spacer
323	743-700353	Drive key
324	743-741506	Spacer
325	743-600702	CB retainer 35-I DIN472

Pos.	Catalog Number	Item Description
326	743-698201	Spring key
327	743-700254	Rack
328	743-732505	Power feed clutch
329	743-729808	Worm Wheel shaft
330	743-700205	Sleeve
331	743-619801	Axial disc As 1730
332	743-619900	Axial disc WS 81103
333	743-700155	Push rod
334	743-607558	FN hexnut M6 DIN934
335	743-606758	FXD screw 6x20 DIN915
336	743-619504	Bearing AXK 1730
337	743-606105	FX screw 6x10 DIN913
338	743-606758	FXD screw 6x20 DIN915

## SPINDLE HAND FEED

Pos.	Catalog Number	Item Description
360	743-693004	Engaging pin
361	743-706400	Spring fixing ring
362	743-700551	Spindle control shaft
363	743-603805	FY screw 6x12 DIN912
364	743-745457	Spring
365	743-627606	Lubricator M8 DIN3410E
366	743-603953	FY screw 6x25 DIN912
367	743-698607	Main cover
368	743-603003	HTP tense pin 8x26 DIN1481
369	743-688251	Bakelite ball M16
370	743-690109	Feed lever
371	743-603854	FY screw 6x16 DIN912
372	743-698904	Support cover
373	743-697856	Knob
374	743-678104	Spacer

## HEAD RAISING MECHANISM

Pos.	Catalog Number	Item Description
650	743-692907	Gear T-18
651	743-700601	Cover
652	743-692956	Gear shaft

Pos.	Catalog Number	Item Description
653	743-740003	PFPM400169
654	743-619850	9034820005
655	743-619553	9034650005
658	743-603904	9019000405
660	743-600157	9001000012
661	743-751026	PFPM401352
662	743-751034	PFPM401353
663	743-605909	9019100303
664	743-660482	PE0300083
665	743-751042	PFPM401354
666	743-751018	PFPM401351
667	743-751133	PFPM401363
668	743-733750	PFPM300674
669	743-602948	9013040418
		HTP Tense Pin 6x40 DIN1481

## TABLE RAISING MECHANISM

Pos.	Catalog Number	Item Description
650	743-692907	PF04024-5
651	743-700601	PF05385-2
652	743-692956	PF04025-4
653	743-740003	PFPM400169
654	743-619850	9034820005
655	743-619553	9034650005
656	743-602955	9013040419
657	743-701054	PF05404-3
658	743-603904	9019000405
659	743-704801	PF05705-4
660	743-600157	9001000012
		CE retainer 16-E DIN471

## LATERAL HEAD PLATE

Pos.	Catalog Number	Item Description
725	743-624884	9037251013
726	743-607509	9025000002
727	743-750507	PFPM401310
728	743-605602	9019020406
729	743-605701	9019030204
		Screw slot 4x10 DIN63
		Screw slot 4x8 DIN7513