

CNC TURRET PUNCH PRESS
COMA SERIES
(AMADAN-04P-C)

PARTS LIST

COMA-506072
(From serial No. C67679)
505072
(From serial No. C57982)

ORDERING INSTRUCTIONS

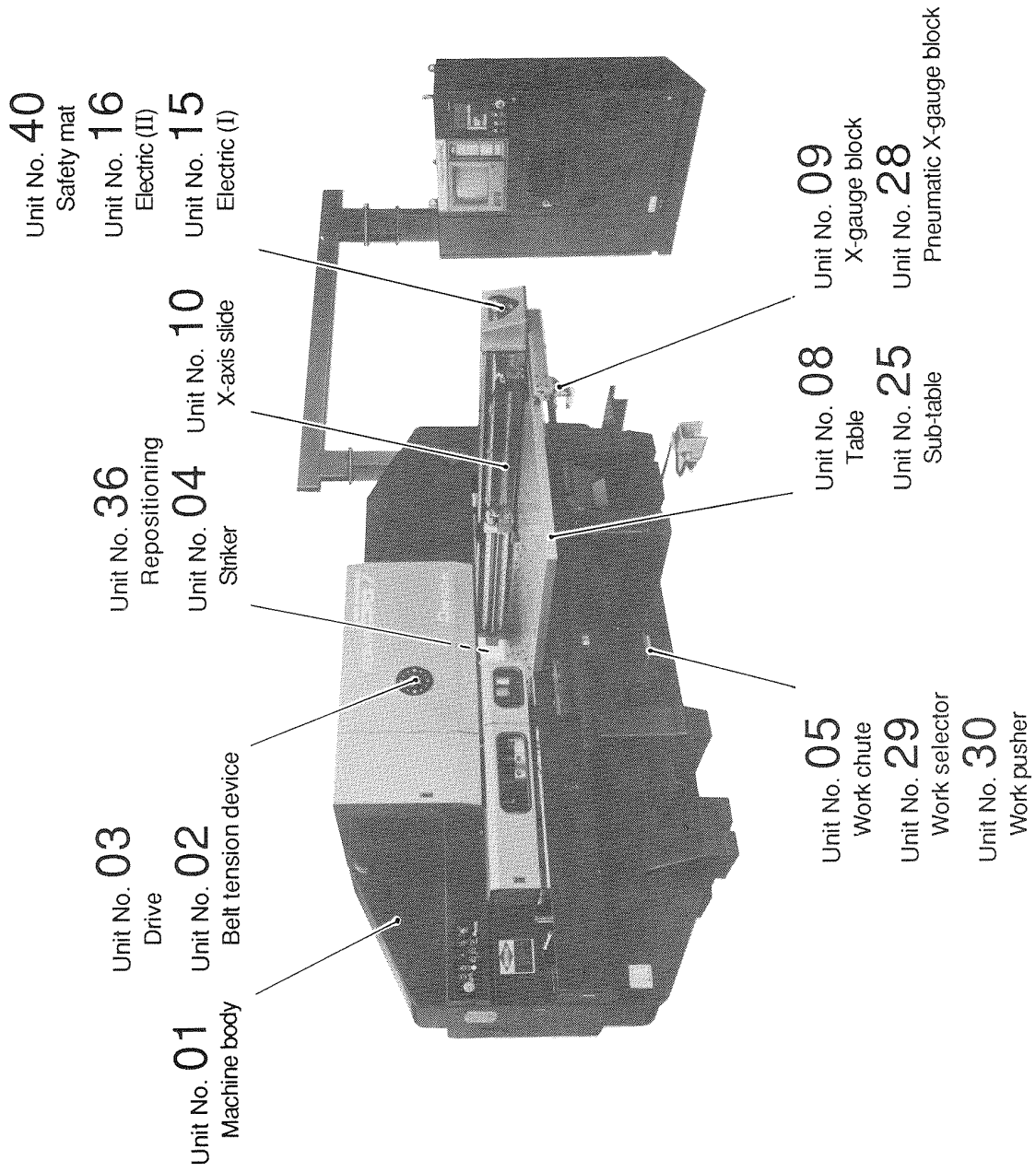
When ordering parts, specify Machine Model, Serial No., Unit No., Index No., Parts No., Parts Name, Drawing No., or Type and Quantity.

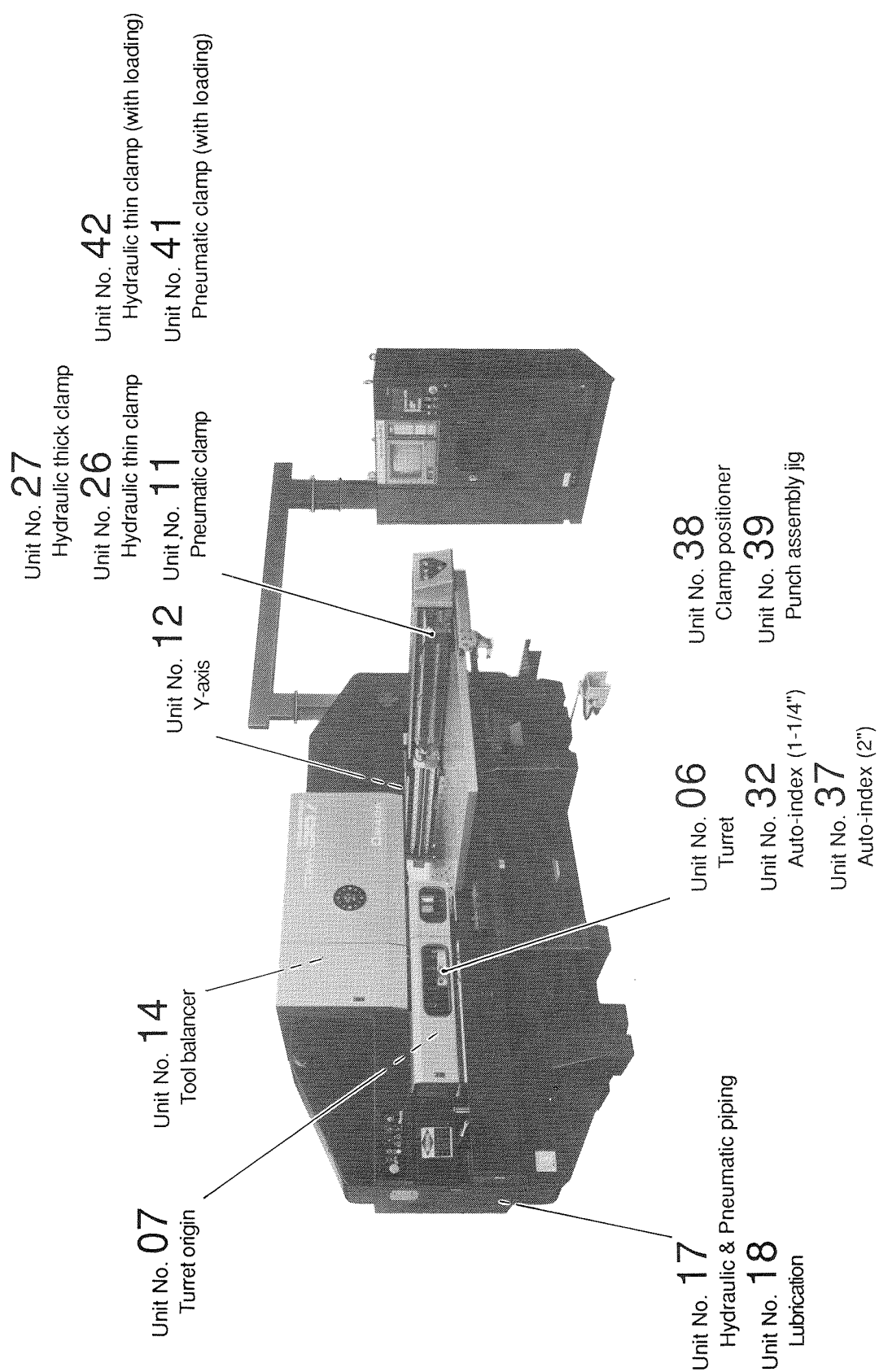
Machine Model: COMA 506072

Serial No.: C67679

Unit No.	Index No.	Parts No.	Parts Name	Drawing No.or Type	Q'ty
03	189	74512117	Clutch & Brake ass'y	6013725b	1
11	71	74305201	O-ring	P-12	2

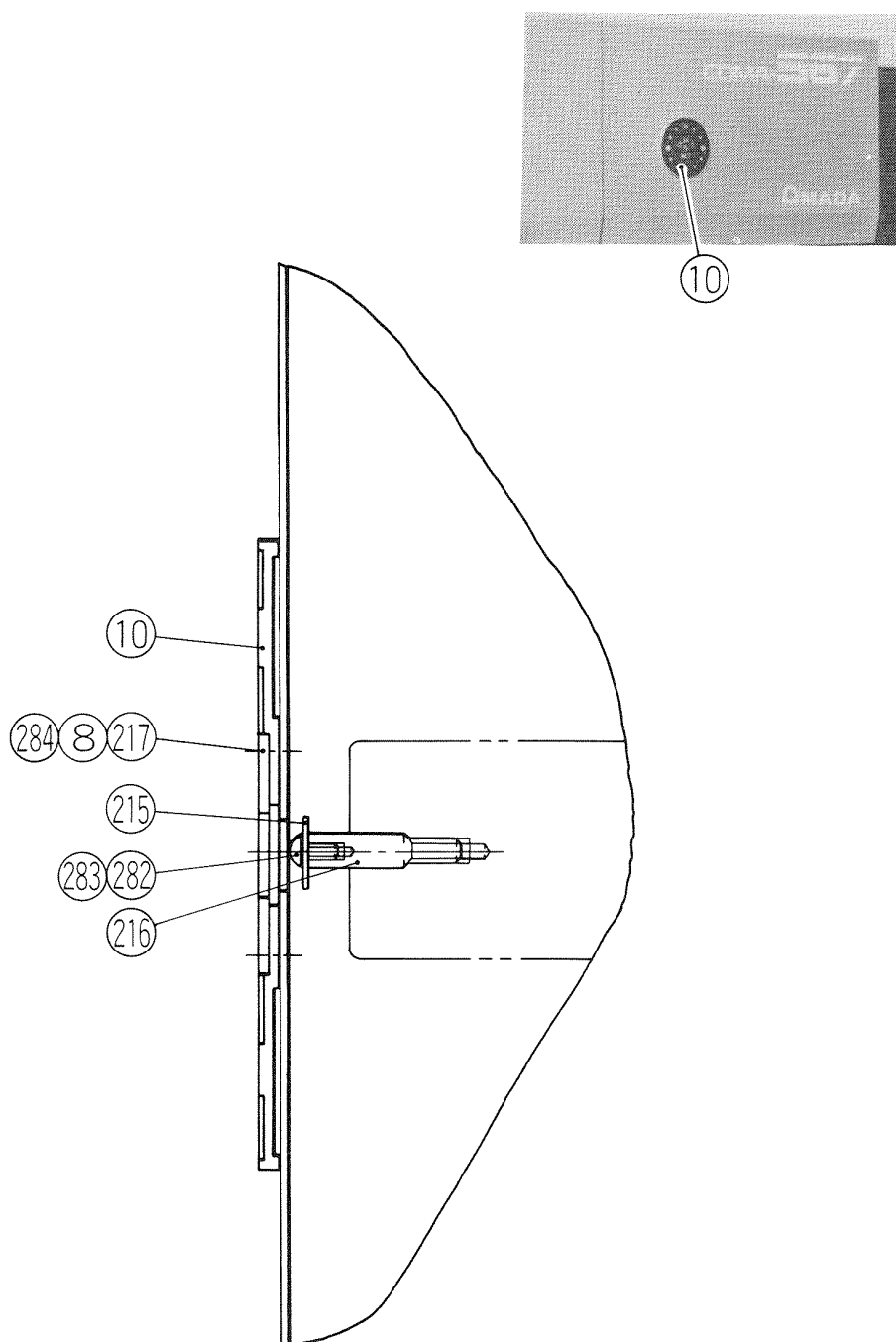
CONTENTS





Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.



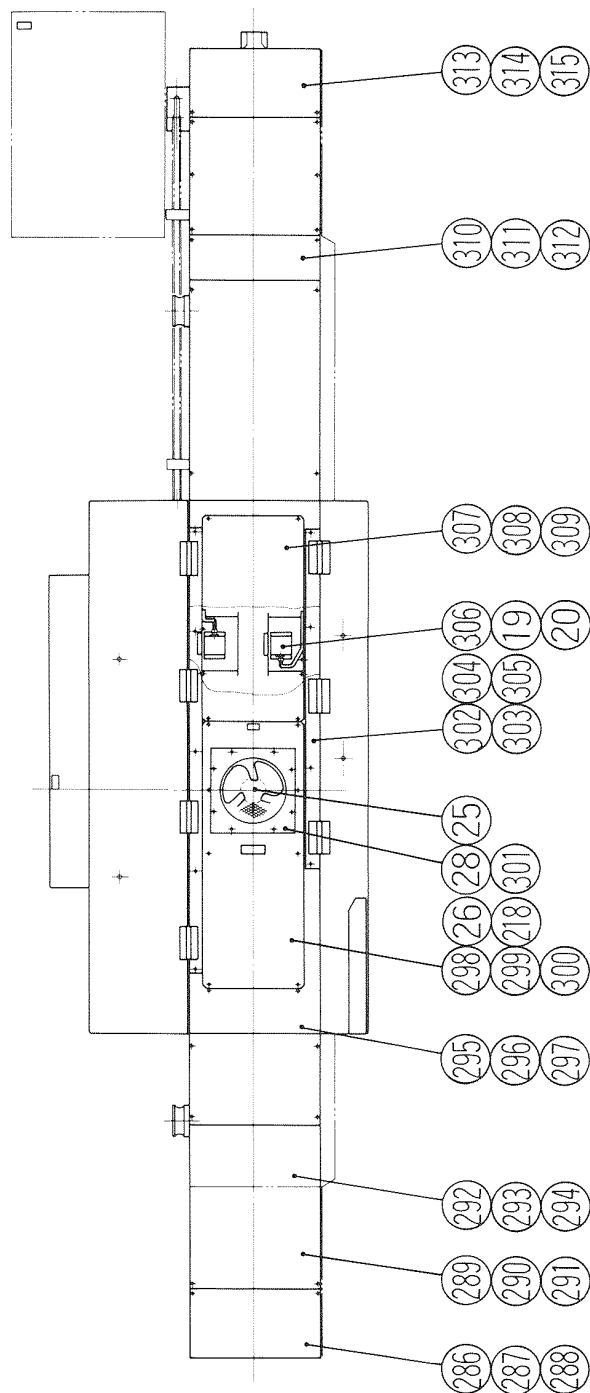
Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 01

Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

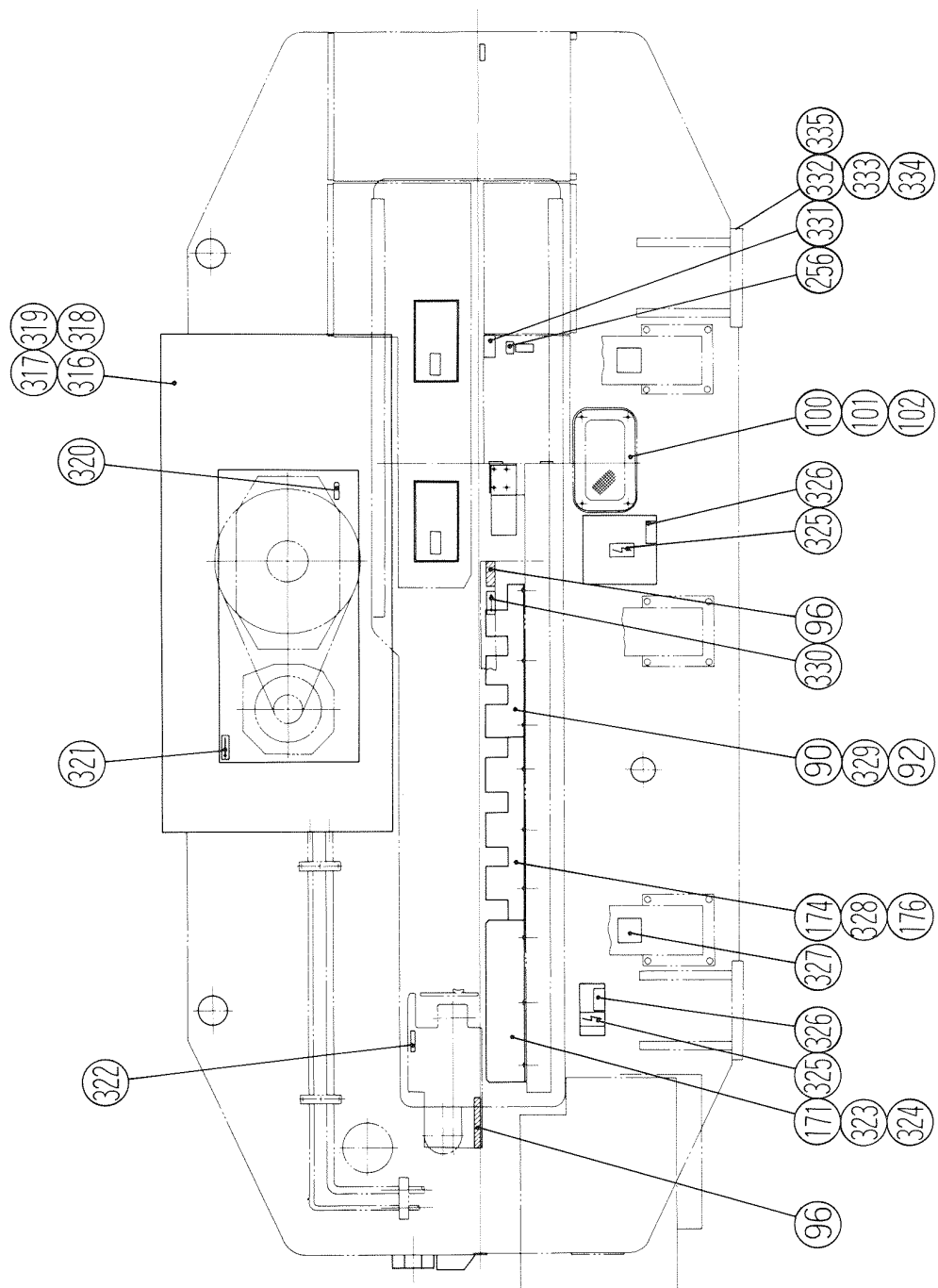
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
19	74300604	Cap screw	M6 x 15	12	12	
20	44027928	Spring washer	M6	12	12	
25	74510219 (74301511)	Fan cover	819106	1	1	
26	75168508	Cap screw	M6 x 25	8	8	
28	74510225 (74301722)	Fan	PN-254-002SC2	1	1	
218	44027928	Spring washer	M6	8	8	
285	74510135	Frame	6018757, 6018758	1	—	
285	74510136	Frame	6018852, 6018853	—	1	
286	74510142	Left side cover (lower)	6018425a	1	—	
286	74510143	Left side cover (lower)	6018622a	—	1	
287	74304816 (10557229)	Button head socket screw	M6 x 10	10	10	
288	74535214	Toothed lock washer	M6	10	10	
289	74300248	Left tilting cover	6018327a	1	1	a: Nov. '88 ~
290	74304816 (10557229)	Button head socket screw	M6 x 10	6	6	
291	74535214	Toothed lock washer	M6	6	6	
292	74510144	Left side cover (upper)	6018753a	1	1	a: Nov. '88 ~
293	74304816 (10557229)	Button head socket screw	M6 x 10	6	6	
294	74535214	Toothed lock washer	M6	6	6	
295	74300258	Top end cover	810970	1	—	
295	74300257	Top end cover	6018036	—	1	
296	74300604	Cap screw	M6 x 15	2	2	
297	74302328 (44027930)	Washer	M6	2	2	
298	74300252	Top cover (A)	6018034b	1	1	
299	74300604	Cap screw	M6 x 15	8	8	
300	74302328 (44027930)	Washer	M6	8	8	
301	74300450	Expand metal	6018028	1	1	
302	74300260	Top cover base	6018033a	1	1	
303	74301628 (44028704)	Cap screw	M10 x 20	6	6	
304	74300519 (10001520)	Spring washer	M10	6	6	
305	74300512	Washer	M10	6	6	
306	74510224	Blower	7930014	2	2	
307	74300253	Top cover (B)	6018035	1	1	
308	74300604	Cap screw	M6 x 15	4	4	
309	74302328 (44027930)	Washer	M6	4	4	
310	74510150	Right side cover (upper)	6018752a	1	1	a: Nov. '88 ~
311	74304816 (10557229)	Button head socket screw	M6 x 10	6	6	
312	74535214	Toothed lock washer	M6	6	6	
313	74510151	Right side cover (mid)	6018422a	1	—	
313	74510152	Right side cover (mid)	6018621a	—	1	
314	74304816 (10557229)	Button head socket screw	M6 x 10	8	8	

Unit No. 01

Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



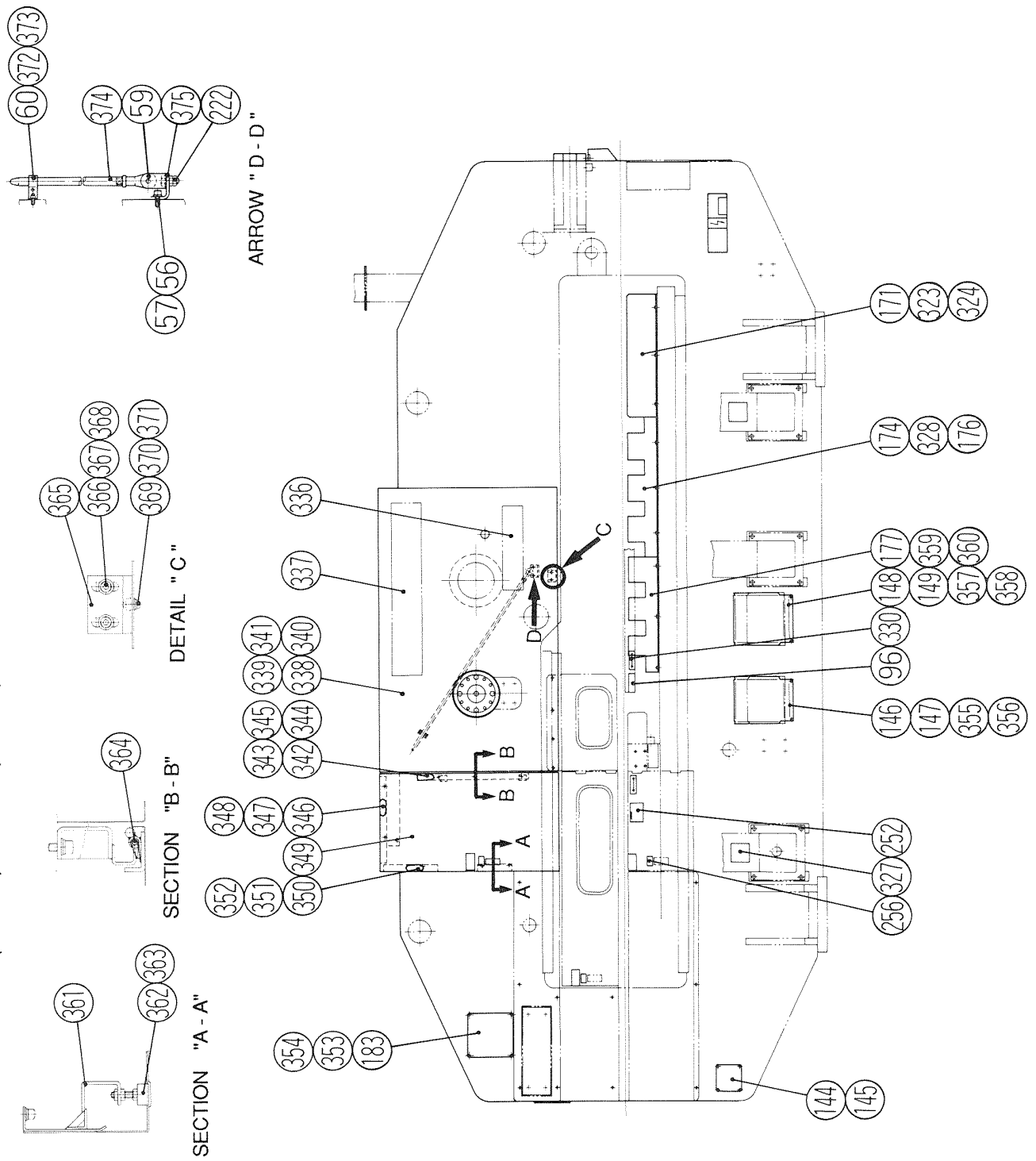
Unit No. 01

Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
90	74510605	Table cover (E)	820619c	1	1	
92	10001521	Spring washer	M8	3	3	
96	74510718 (74300406)	Sticker	AS-K1006	3 set	3 set	
100	74510615	Wire net	820844a	1	1	
101	74535003	Button head socket screw	M5 x 12	4	4	
102	74535213	Toothed lock washer	M5	4	4	
171	74510601	Table cover (B)	820616a	2	—	
171	74510602	Table cover (B)	820681a	—	2	
174	74510603	Table cover (C)	820617a	2	2	
176	10001521	Spring washer	M8	6	6	
256	74510927 (74300124)	Sticker (OPEN)	811864	4	4	
316	74510157	Rear cover	6018411b	1	—	
316	74300143	Rear cover	6018030e	—	1	
317	74302817 (73157630)	Cap screw	M8 x 15	5	5	
318	10001521	Spring washer	M8	5	5	
319	74300511	Washer	M8	5	5	
320	74510621	Sticker (V-belt)	820841	1	1	
321	74510719	Sticker	AS-K1001-D	1	1	
322	74510622	Sticker (timing belt)	820858	1	1	
323	74302817 (73157630)	Cap screw	M8 x 15	6	4	
324	10001521	Spring washer	M8	6	4	
325	74510311 (78185229)	Sticker	AS-K1000-D	2	2	
326	74510320 (78185231)	Sticker	AS-K1005-A	2	2	
327	74510922	Sticker (don't lift)	820851	4	4	
328	74302817 (73157630)	Cap screw	M8 x 15	6	6	
329	74302817 (73157630)	Cap screw	M8 x 15	3	3	
330	74510319	Sticker	AS-K1001-E	2	2	
331	74510720	Sticker	AS-K1001-B	1	1	
332	74511336	Anchor bolt	J-M42 x 630	4	4	
333	74511337	Nut	M42	4	4	
334	74511338	Washer	M42	4	4	
335	74511317	Rubber cushion	MAV-AS-45	4	4	

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 01

Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
56	38124012	Cap screw	M10 x 25	4	4	
57	10001520	Spring washer	M10	4	4	
59	74510702	Connecting end	RBC-14SB	2	2	
60	74510413 (74300423)	Stay catch	820564b	2	2	
144	74510327 (74300429)	Serial plate	820825d	1	1	
145	74510725 (74300719)	Drive screw rivet	φ6 x 12	4	4	
146	74510823 (74300426)	Plate (A)	820594b	1	1	
147	74511124 (74300729)	Rubber sheet	220 x 500 x 2t	1	1	
148	74510824 (74304631)	Plate (B)	820595b	1	1	
149	74511125 (74305225)	Rubber sheet	250 x 500 x 2t	1	1	
171	74510601	Table cover (B)	820616a	1	—	
171	74510602	Table cover (B)	820681a	—	1	
174	74510603	Table cover (C)	820617a	2	2	
177	74510604	Table cover (D)	820618c	1	1	
183	74510924 (74300125)	Caution plate (WARNING)	820843	1	1	
222	21220953	Nut	M14 type-3	4	4	
252	74510926	Caution plate	810618a	1	1	
256	74510927 (74300124)	Sticker (OPEN)	811864	4	4	
336	74300102	Amada plate	6018322	1	1	
337	74510329	Model plate	6018417	1	—	
337	74510330	Model plate	6018617	—	1	
338	74300162	Front cover	810959d	1	—	
338	74300135	Front cover	6018021e	—	1	
339	74302817 (73157630)	Cap screw	M8 x 15	4	4	
340	10001521	Spring washer	M8	4	4	
341	74300511	Washer	M8	4	4	
342	74300388	Balancer cover bracket	810957a	1	—	
342	74300462	Balancer cover bracket	6018023b	—	1	
343	74301628 (44028704)	Cap screw	M10 x 20	3	3	
344	74300519 (10001520)	Spring washer	M10	3	3	
345	74300512	Washer	M10	3	3	
346	74300382	Cover guide (upper)	810955a	1	—	
346	74300465	Cover guide (upper)	6018025	—	1	
347	74302817 (73157630)	Cap screw	M8 x 15	2	2	
348	10001521	Washer	M8	2	2	
349	74300458	Balancer cover	810956c	1	—	
349	74300461	Balancer cover	6018022a	—	1	
350	74300383	Cover guide (L)	810958a	1	—	
350	74300464	Cover guide (L)	6018024c	—	1	
351	74302817 (73157630)	Cap screw	M8 x 15	3	3	

Unit No. 01

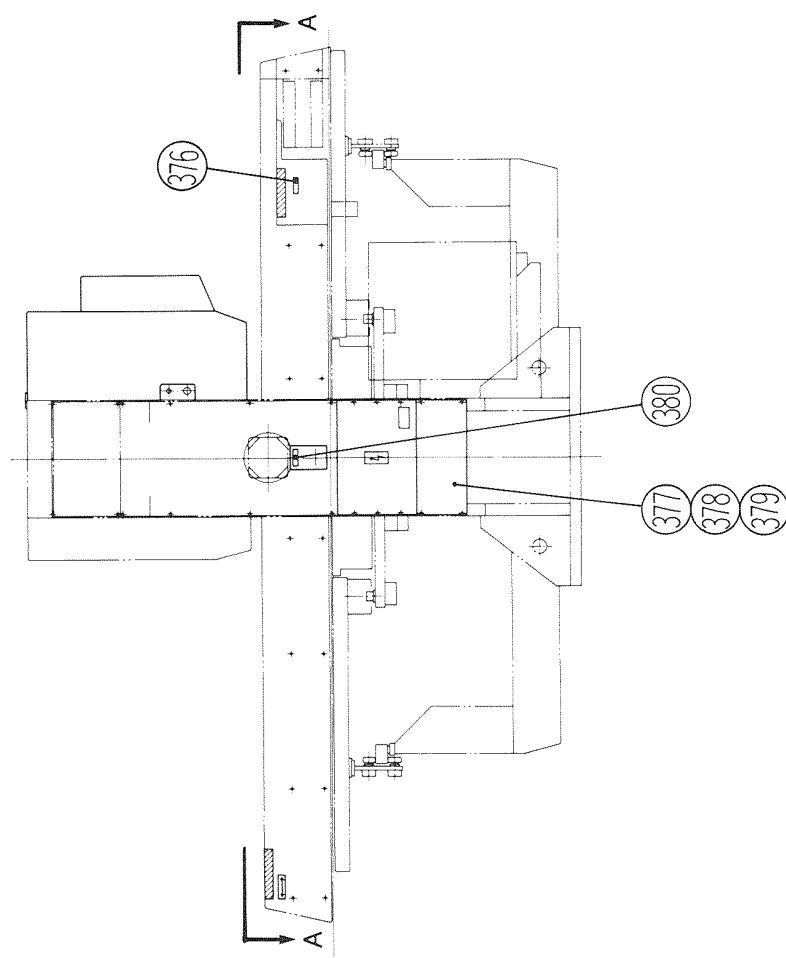
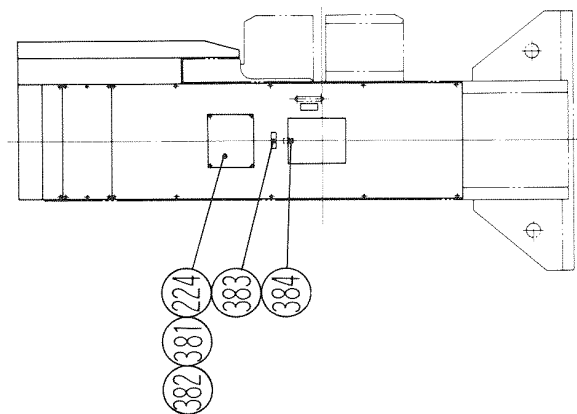
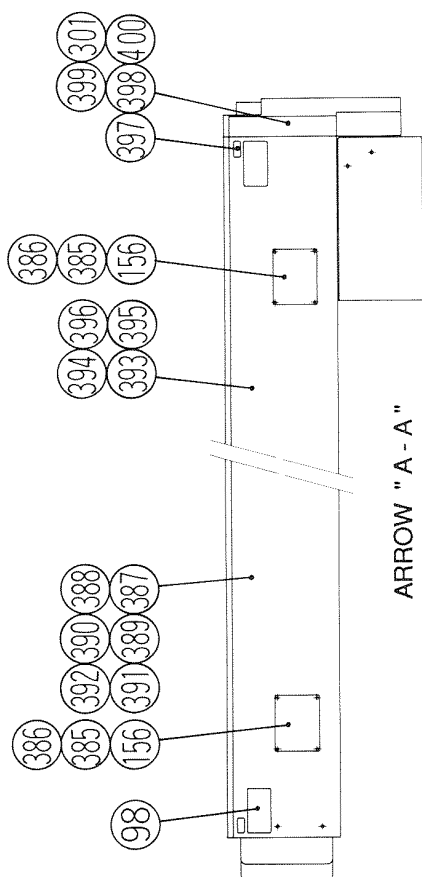
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.



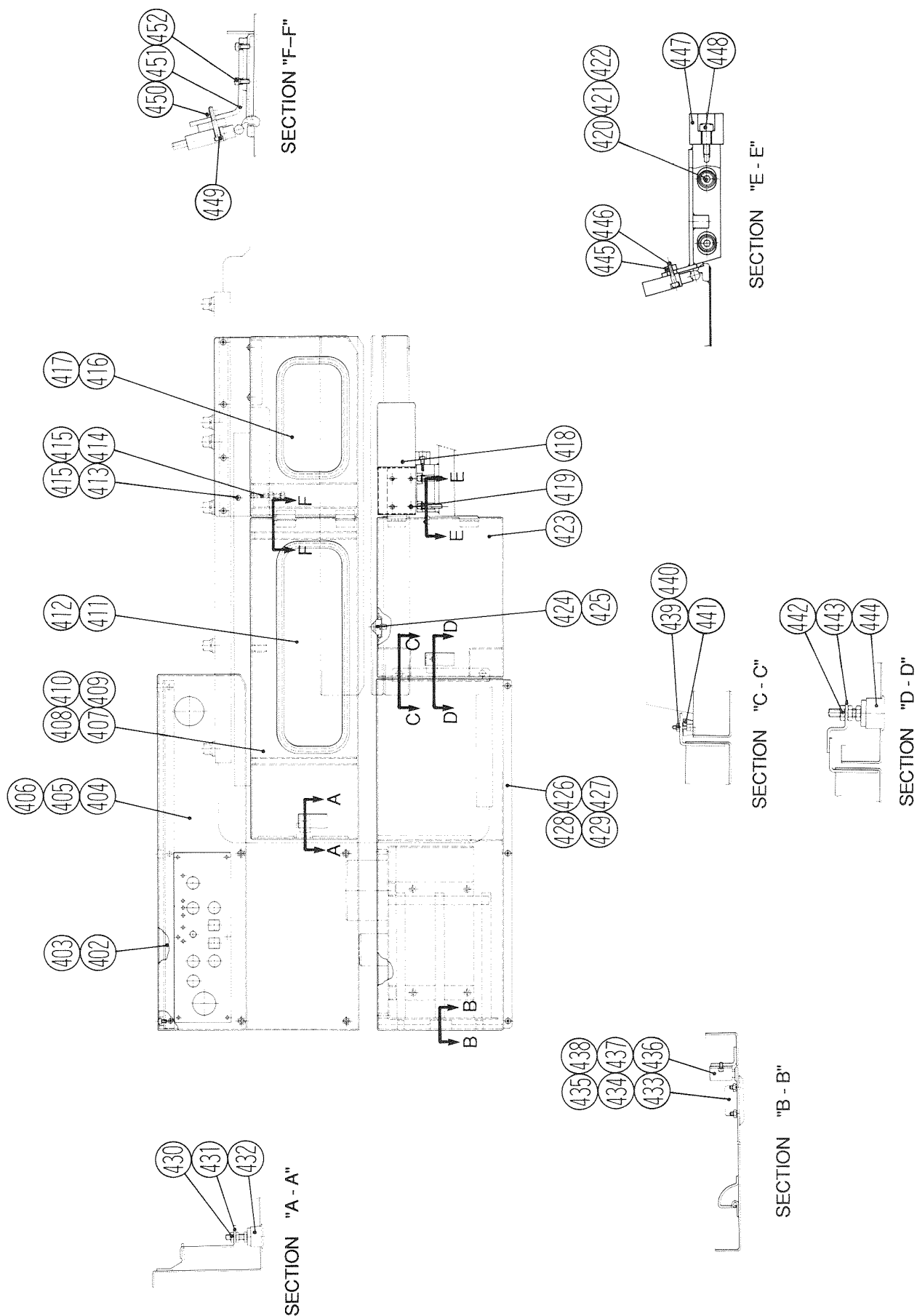
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
402	74300444	Angle	810969	1	—	
402	74300457	Angle	6018066a	—	1	
403	73157630	Cap screw	M8 x 15	3	3	
404	74510935	Sub control cover	6018433a	1	—	
404	74510936	Sub control cover	6018632a	—	1	
405	73157630	Cap screw	M8 x 15	5	5	
406	74300615 (74183701)	Cap screw	M8 x 105	2	2	
407	74510423	Front turret cover (upper)	810953e	1	—	e: Apr. '89 ~
407	74300343	Front turret cover (upper)	6018051e	—	1	e: Apr. '89 ~
408	74304817	Button head socket screw	M8 x 15	4	4	
409	74300625	Button head socket screw	M8 x 20	4	4	
410	74300511	Washer	M8	8	8	
411	74300206	Acrylic plate (A)	6018052	1	1	
412	74300813	Rubber	No. 521 1440 L	1	1	
413	74300631 (10565924)	Set screw (flat end)	M8 x 20	1	1	
414	74300632	Set screw (flat end)	M8 x 80	1	1	
415	74300504	Nut	M8 type-2	2	2	
416	74300207	Acrylic plate (B)	6018053	1	1	
417	74300812	Rubber	No. 519 920 L	1	1	
418	74510940	Cover (F)	6018432	1	—	
418	74510941	Cover (F)	6018634a	—	1	
419	74302815	Cap screw	M6 x 20	4	4	
420	10567317	Cap screw	M10 x 55	2	2	
421	74300519 (10001520)	Spring washer	M10	2	2	
422	74300512	Washer	M10	2	2	
423	74510945	Lower turret door (F)	6018431a	1	—	
423	74510946	Lower turret door (F)	6018631a	—	1	
424	74515501 (74161611)	Free stroke bearing	C-8YA	1	1	
425	36329937	Cap screw	M8 x 10	2	2	
426	74510950	Jig cover	6018434a	1	—	
426	74510951	Jig cover	6018633a	—	1	
427	74304817	Button head socket screw	M8 x 15	3	3	
428	74300511	Washer	M8	3	3	
429	74304904	Cap screw	M6 x 30	2	2	
430	36329932	Nut	M8 type-3	1	1	
431	74300364	Ratch (B)	6018056a	1	1	
432	74300726	Lever	A-205	1	1	
433	74300724	Pull	A-1191-2-A	1	1	
434	74300501	Nut	M4	4	4	
435	44027327	Spring washer	M4	4	4	

Unit No. 01

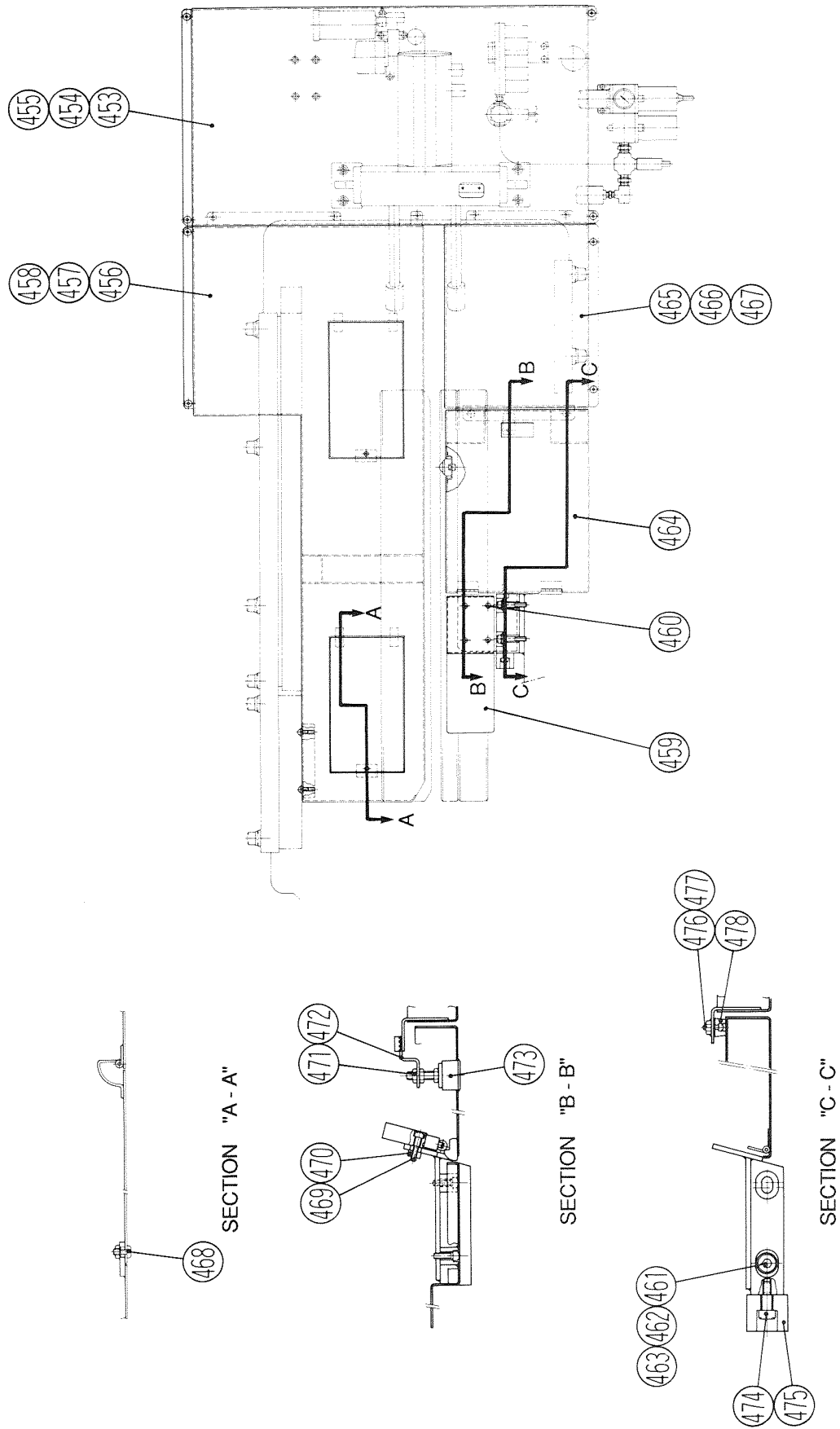
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 01
Machine body

From serial No. C67679 (506072), C57982 (505072) and after.



Machine body

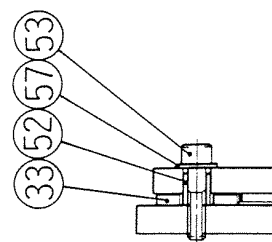
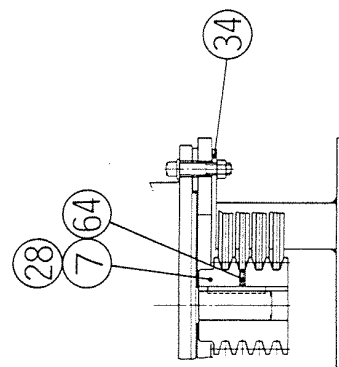
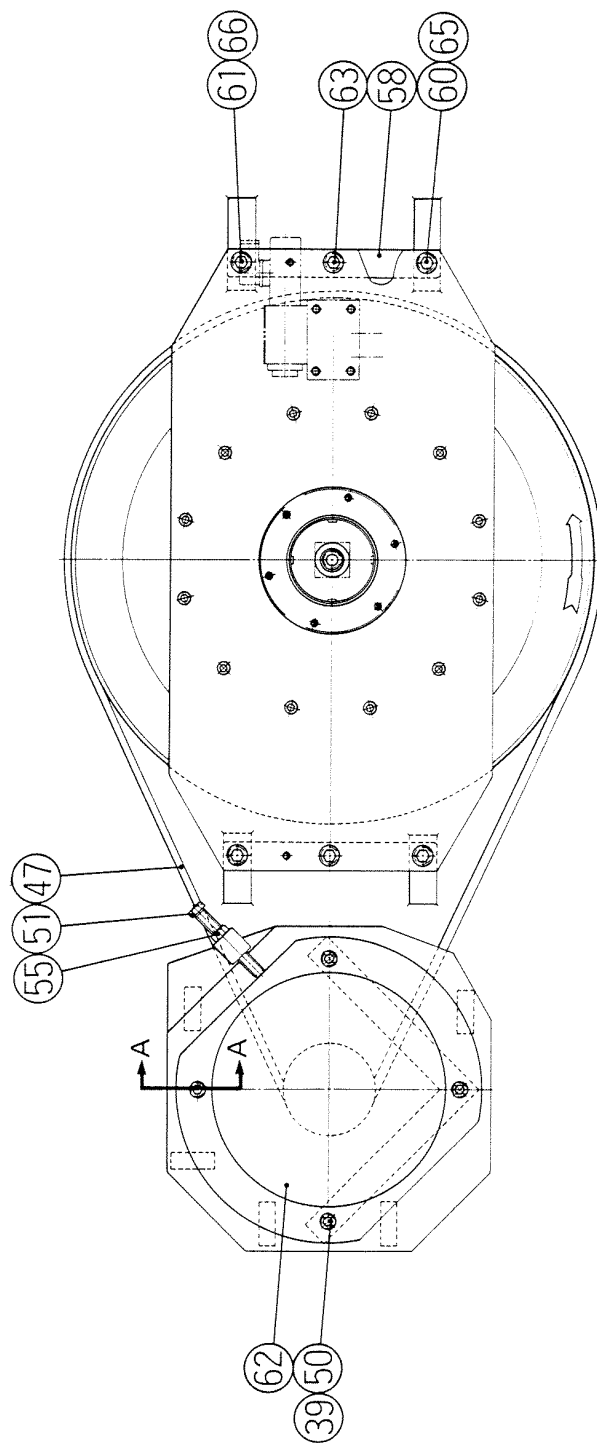
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 02

Belt tension device

From serial No. C67679 (506072), C57982 (505072) and after.



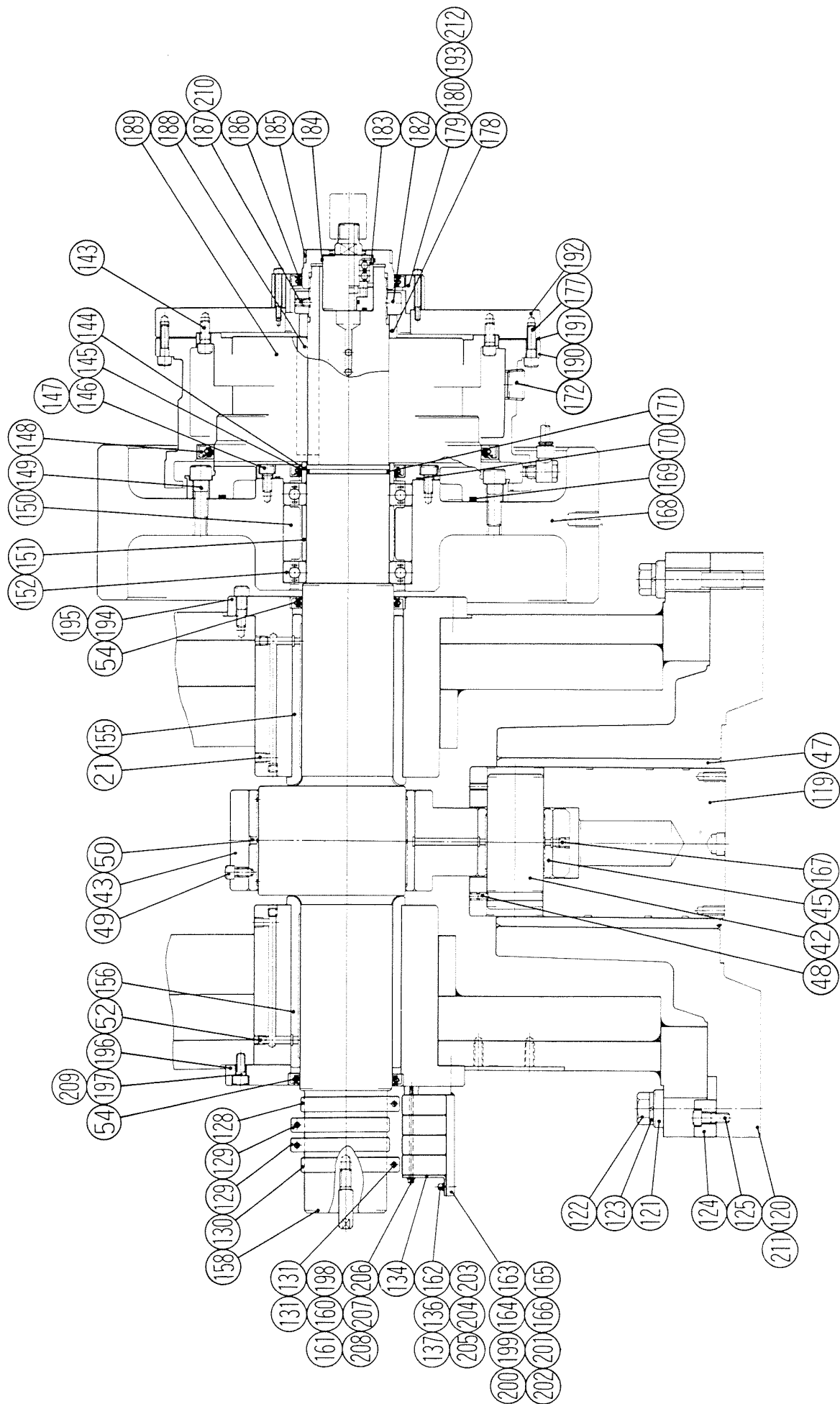
SECTION "A - A"

Unit No. 02

Belt tension device

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



Unit No. 03

Drive

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
21	74512327 (58147621)	Plug	PT 1/8"	2	2	
42	74511918 (74159239)	Ram pin	821058	1	1	
43	74511925 (74159119)	Connecting rod	801014c	1	1	
45	74511919 (74159242)	Ram pin bushing	480164c	1	1	
47	74511911 (74159262)	Ram guide bushing	821057	1	1	
48	52103501	Set screw (cup end)	M8 x 10	2	2	
49	74511930	Lock bolt	490233b	1	1	
50	74511926 (74159244)	Connecting bushing	801012a	1	1	
52	74512327 (58147621)	Plug	PT 1/8"	2	2	
54	74512302 (74159602)	Oil seal	SB- $\phi 100 \times \phi 125 \times 13^b$	2	2	
119	74511909 (74301527)	Ram	821106a	1	1	
120	74511910 (74301530)	Ram guide	821107e	1	1	~ C67742 ~ C57988
121	74512225 (74159434)	Washer	821009b	4	4	
122	74512331	High tension bolt	M20 x 100	4	4	
123	74535220	Spring washer	M20 type-2	4	4	
124	74512219 (74301514)	Key	821010a	2	2	
125	74302829	Cap screw	M10 x 30	2	2	
128	74512002 (74301319)	Proximity switch cam (A)	821085c	1	1	
129	74512003 (74159255)	Proximity switch cam (B)	821086a	2	2	
130	74512004 (74159301)	Proximity switch cam (C)	821087a	1	1	
131	74512012 (74327830)	Set wedge	821155	4	4	
132	74512332	Set screw (knurl end)	M6 x 10 (UNBRAKO)	4	4	
134	74512011	Set plate	821114b	1	1	b: Mar. '89 ~
136	44027928	Spring washer	M6	2	2	~ Mar. '89
137	44027930	Washer	M6	2	2	~ Mar. '89
143	74535118	Cap screw	M10 x 25 (UNBRAKO)	12	12	
144	74512111	Spacer (A)	6013941	1	1	
145	74512302 (74159602)	Oil seal	SB- $\phi 100 \times \phi 125 \times 13^b$	1	1	
146	74512110	Bearing retainer	6013938a	1	1	
147	74535117	Cap screw	M10 x 20 (UNBRAKO)	12	12	
148	74512303	Oil seal	SB290-330-18	1	1	
149	36322121	Cap screw	M16 x 45	12	12	
150	74512108	Bearing spacer (A)	6013940	1	1	
151	74512109	Bearing spacer (B)	6013942b	1	1	
152	74512309 (74328313)	Ball bearing	#6018ZZ	2	2	
155	74512029	Crank bushing (R)	811071	1	1	
156	74512028	Crank bushing (L)	6013934	1	1	
158	74511902	Drive shaft	6013931a	1	1	
160	74300501	Nut	M4	2	2	
161	74535212	Toothed lock washer	M4	2	2	~ Mar. '89

Unit No. 03

Drive

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
162	74307602	Cap screw	M6 x 16	2	2	~ Mar. '89
163	74512005	Proximity switch bracket	6013948a	1	1	~ Mar. '89
164	38124012	Cap screw	M10 x 25	4	4	~ Mar. '89
165	10001520	Spring washer	M10	4	4	~ Mar. '89
166	74300512	Washer	M10	4	4	~ Mar. '89
167	74512327 (58147621)	Plug	PT 1/8"	1	1	
168	74512103	Flywheel	6013935	1	1	
169	74512317	O-ring	G270	1	1	
170	74512316 (73157223)	O-ring	G145	1	1	
171	74512315 (10310403)	O-ring	G85	1	1	~ Aug. '89
172	74512325 (10465810)	Plug	PT 1"	1	1	
177	74535120	Cap screw	M10 x 45 (UNBRAKO)	12	12	
178	74512130	Spacer (B)	6013943	1	1	
179	74512202	Seal holder	6013939b	1	1	
180	74512125	Packing (B)	6013951a	1	1	
182	74512208	Lock nut	6013937a	1	1	a: May '89 ~
183	74512213	Rotary joint	7931054	1	1	
184	74512318	O-ring	S55	1	1	
185	74512203	Swivel holder	6013936	1	1	
186	74512302 (74159602)	Oil seal	SB- ϕ 100 x ϕ 125 x 13 ^b	1	1	
187	74512333	Set screw (flat end)	MF8 x 1	4	4	~ May '89
188	74512218	Key	6013945a	1	1	
189	74512117	Clutch & Brake ass'y	6013725e	1	1	e: May '89 ~
190	74512122	Casing	821214b	1	1	b: Aug. '89 ~
191	74512123 (74301115)	Packing (A)	6013950a	1	1	
192	74512128 (74301121)	Brake plate	6013947c	1	1	
193	74314409	Cap screw	M6 x 50	6	6	~ Sep. '89
194	74301240	Crank shaft support	6013933c	1	1	
195	74301921 (74535119)	Cap screw	M10 x 35 (UNBRAKO)	6	6	
196	74301235	Crank shaft support	6013932c	1	1	c: Mar. '89 ~
197	74301921 (74535119)	Cap screw	M10 x 35 (UNBRAKO)	6	6	~ Mar. '89
198	74301407	Cap screw	M4 x 110	2	2	~ Mar. '89
199	74328020	Proximity switch bracket	821216	1	1	Mar. '89 ~
200	74354426 (36326128)	Cap screw	M12 x 25	2	2	Mar. '89 ~
201	74301615 (44028619)	Spring washer	M12	2	2	Mar. '89 ~
202	74303704 (44028618)	Washer	M12	2	2	Mar. '89 ~
203	74354516 (36323412)	Cap screw	M4 x 14	2	2	Mar. '89 ~
204	74300515 (44027327)	Spring washer	M4	2	2	Mar. '89 ~
205	74300510	Washer	M4	2	2	Mar. '89 ~
206	74354526	Cap screw	M4 x 100	2	2	Mar. '89 ~

Drive

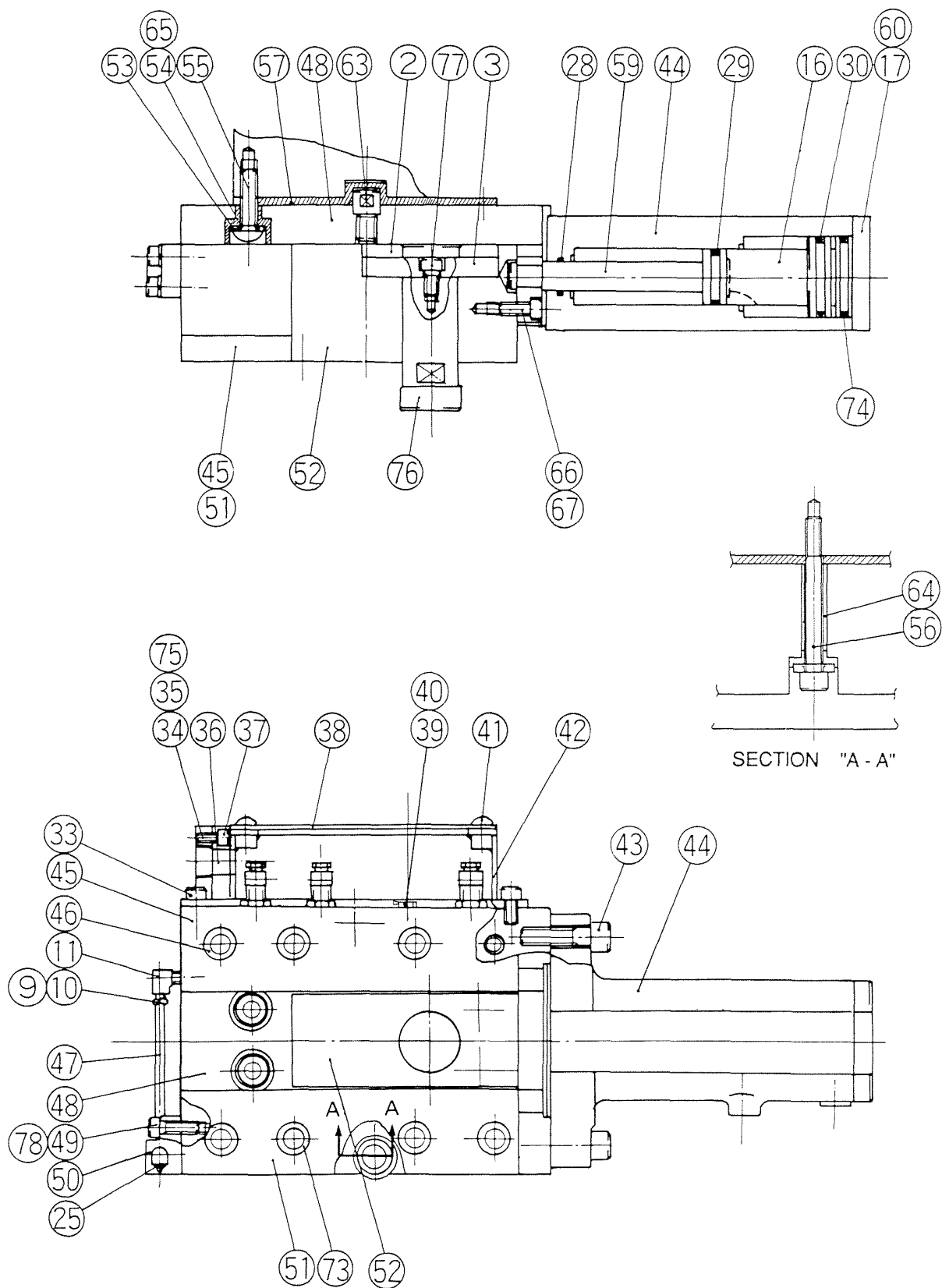
From serial No. C67679 (506072), C57982 (505072) and after.

22-1

1990/1/30

Unit No. 04
Striker

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 04

Striker

From serial No. C67679 (506072), C57982 (505072) and after.

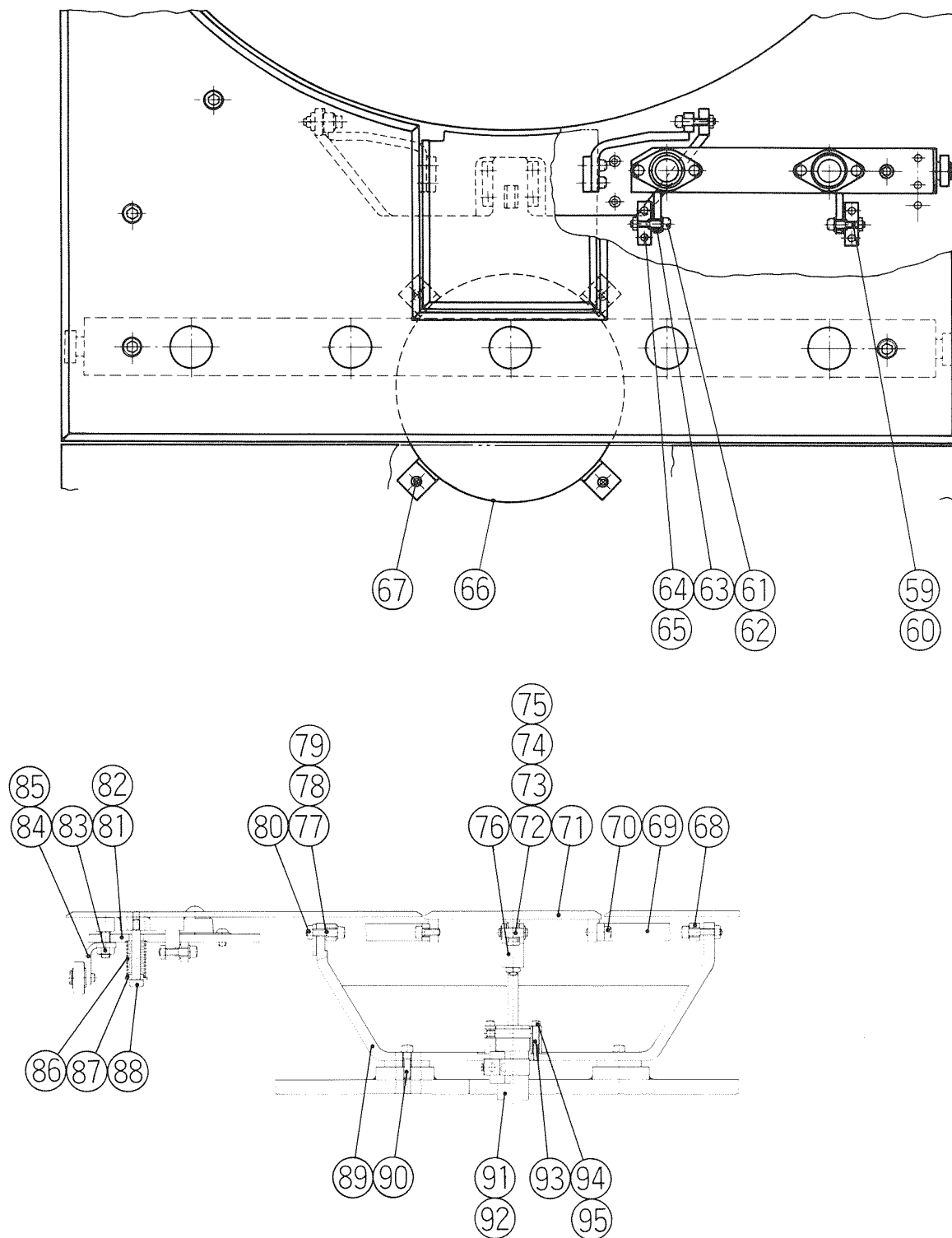
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
2	74512609 (74160030)	Back-up plate	480332c	1	1	
3	74160201	Shear plate	480333d	1	1	
9	74512823 (74302909)	D.C. nut	IHI $\phi 6 \times 1/8"$ K869982	2	2	
10	74512824 (74302914)	D.C. sleeve	IHI $\phi 6$ K869986	2	2	
11	74512825 (74302930)	L.F. connector	IHI $\phi 6 \times 1/8"$ K869935	2	2	
16	74512806 (74160211)	Float piston	480431d	1	1	
17	74512805 (74160215)	Cylinder cover	480432c	1	1	
25	74516514 (58134511)	Grease nipple	B-1/8"	1	1	
28	74512815 (10001124)	O-ring	P-18	1	1	
29	74512816 (58134723)	O-ring	P-29	1	1	
30	74512817 (52110303)	O-ring	P-44	1	1	
33	74535112	Cap screw	M8 x 14 (UNBRAKO)	4	4	
34	74512702 (74302418)	Flange	822050	1	1	
35	52104301	Set screw (flat end)	M6 x 8	1	1	
36	74512703 (74302729)	Isolating flange	822049	1	1	
37	74535114	Cap screw	M8 x 20 (UNBRAKO)	2	2	
38	74512709 (74302726)	Box cover	822048	1	1	
39	74512830 (74303230)	Lug terminal	1.25-6	1	1	
40	74535410	Button head socket screw	M6 x 12 (UNBRAKO)	1	1	
41	74535412	Button head socket screw	M8 x 15 (UNBRAKO)	4	4	
42	74512708	Box	822047a	1	1	
43	74535127	Cap screw	M12 x 45 (UNBRAKO)	4	4	
44	74512804 (74160023)	Select cylinder	822044a	1	1	
45	74512624 (74160005)	Guide rail (L)	822042	1	1	
46	74535125	Cap screw	M12 x 35 (UNBRAKO)	4	4	
47	74512833	Copper pipe	$\phi 6 \times 96$	1	1	
48	74512604 (74160330)	Punch holder guide	822036	1	1	Please order together with index No. 52.
49	74535115	Cap screw	M8 x 25 (UNBRAKO)	2	2	~ Dec. '89
50	74512728 (74302801)	Block	822051b	1	1	b: Dec. '89 ~
51	74512625 (74160006)	Guide rail (R)	822043	1	1	
52	74512604 (74160330)	Punch holder	822040a a: Jan. '89 ~	1	1	Please order together with index No. 48.
53	74512632 (74302327)	Washer	822039	6	6	
54	74512631 (74302629)	Isolating washer	822038	6	6	
55	74535414	Button head socket screw	M10 x 40 (UNBRAKO)	4	4	
56	74535122	Cap screw	M10 x 90 (UNBRAKO)	2	2	
57	74512630 (74302623)	Isolating plate	822035b	1	1	
59	74512807 (74160217)	Piston	822045	1	1	
60	74535108	Cap screw	M6 x 20 (UNBRAKO)	6	6	
63	74512619 (74302217)	Locating pin	822037	1	1	
64	74512720 (74302804)	Collar (L)	822052	2	2	

Unit No. 04

Striker

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

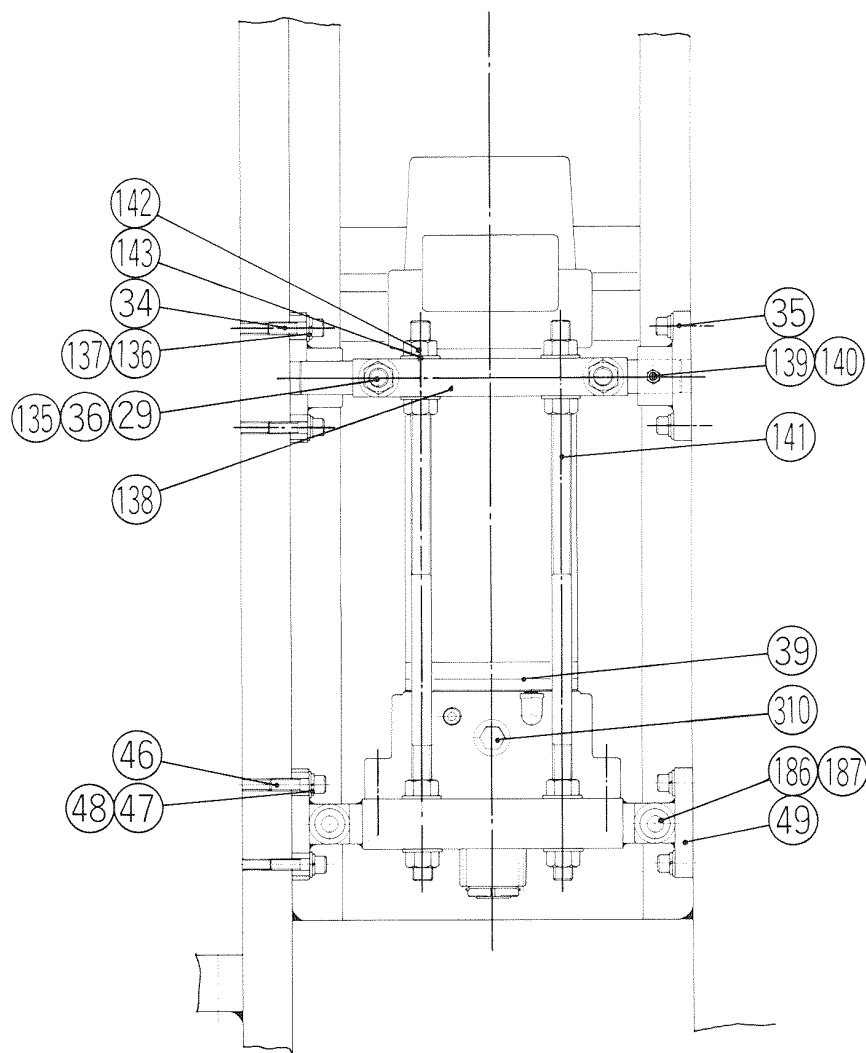


Unit No. 05

Work chute

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
58	74514835	Work chuter ass'y	823510b	1	1	
59	74314921	DU bushing	MB0808-15FDU	2	2	
60	74305320 (56127502)	Thrust washer	WC06DUN	2	2	
61	74301627 (38020507)	Cap screw	M8 x 35	4	4	
62	36329932	Nut	M8 type-3	4	4	
63	74305311 (55125127)	DU bushing	MB0808DU	2	2	
64	74304909	Cap screw	M8 x 40	8	8	
65	74304133	Hinge block	823525	4	4	
66	74514838	Chuter drum	823526b	1	1	
67	74300606 (44235241)	Cap screw	M8 x 20	4	4	
68	74305311 (55125127)	DU bushing	MB0808DU	1	1	
69	74304127	Arm	823514b	2	2	
70	74300606 (44235241)	Cap screw	M8 x 20	4	4	
71	74304107	Chuter table	823516c	1	1	
72	74304715	Pin (2)	823518	1	1	
73	74314616 (10205431)	Snap ring	STW-10	2	2	
74	74300512	Washer	M10	2	2	
75	74305319 (10319265)	DU bushing	MB1010DU	1	1	
76	74304713	Clevis	823517a	1	1	
77	74301627 (38020507)	Cap screw	M8 x 35	2	2	
78	74314921	DU bushing	MB0808-15FDU	1	1	
79	74515016	Thrust washer	WC06DCN	1	1	
80	36329932	Nut	M8 type-3	2	2	
81	74304003	F.B. guide (F)	823521b	1	1	
82	74304004	F.B. guide (R)	823522b	1	1	
83	74300606 (44235241)	Cap screw	M8 x 20	4	4	
84	74514843	Roller bracket (F)	823523	1	1	
85	74514844	Roller bracket (R)	823524	1	1	
86	74304009	F.B. guide spring	813163	2	2	
87	74304013	Spring collar	830399	2	2	
88	74304023 (43134309)	Stripper bolt	MSB-10-55	2	2	
89	74304103	Unit bracket	823511a	1	1	
90	74300606 (44235241)	Cap screw	M8 x 20	4	4	
91	74303602	Air cylinder	CDMU30-50-59L-XC1	1	1	
92	74315309	Elbow	PL6-PT 1/8	2	2	
93	74305312	DU bushing	MB0910DU	2	2	
94	74304130	Support block	823520a	2	2	
95	74309803 (44446227)	Cap screw	M6 x 40	4	4	

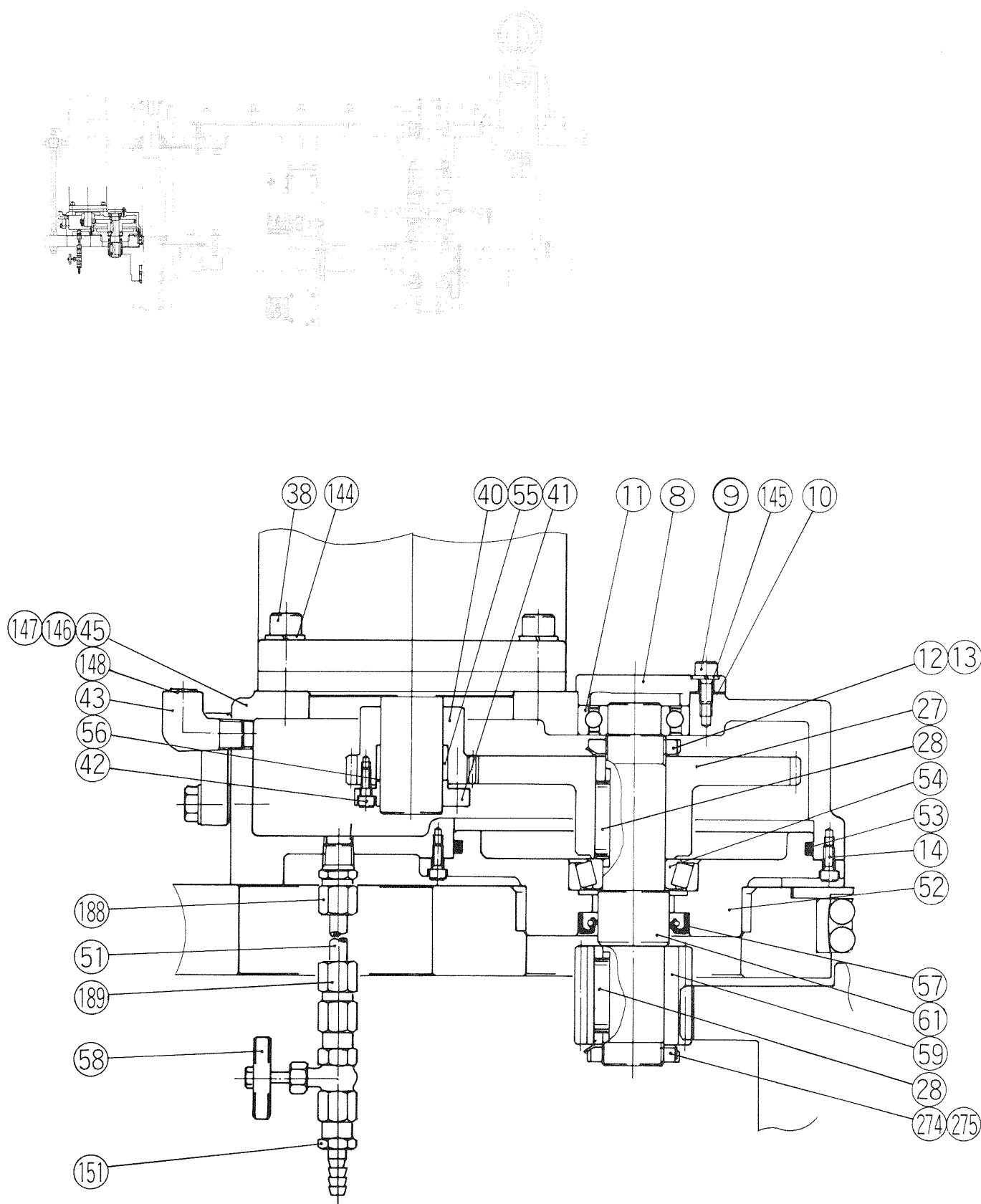


Unit No. 06

Turret

From serial No. C67679 (506072), C57982 (505072) and after.

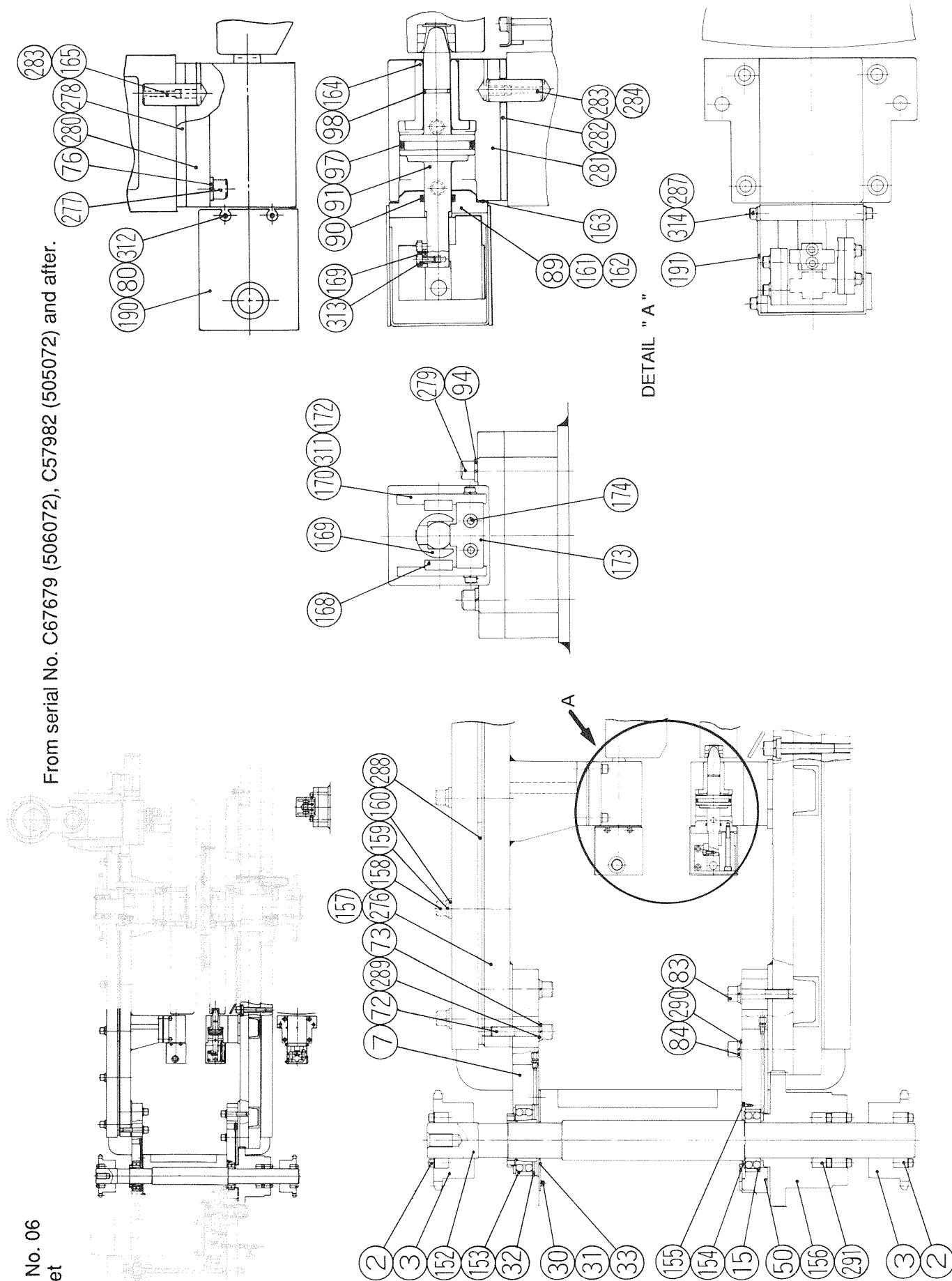
[illegible]



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
8	74513016 (74160129)	Cap	821573a	1	1	
9	10343103	Cap screw	M8 x 16	4	4	
10	74513031 (74160225)	Packing	821574a	1	1	
11	74513102 (58134506)	Ball bearing	#6206ZZ	1	1	
12	74513109 (10312112)	Crown nut	AN07	1	1	Please order together with index No. 13.
13	74513110 (10205423)	Crown washer	AW07	1	1	Please order together with index No. 12.
14	74535106	Cap screw	M6 x 14 (UNBRAKO)	6	6	
27	74513010 (74160322)	Middle gear (large)	821571a	1	1	
28	74513027 (74160309)	Key	821572b	2	2	
38	74302821	Cap screw	M12 x 45	4	4	
40	74513009 (74160321)	Drive gear	821568	1	1	
41	74513018	Flange	821569	1	1	
42	74535107	Cap screw	M6 x 16 (UNBRAKO)	4	4	
43	74513220	Male female elbow	PT 3/8	1	1	
45	74513004	Gear box	821567a	1	1	
51	74513215	Copper pipe	φ10 0.5 m	1	1	
52	74513017	Flange base	821575b	1	1	
53	74513124 (54118525)	O-ring	G-190	1	1	
54	74513103 (10312101)	Roller bearing	#30207	1	1	
55	74513119 (74161705)	Spann ring	RfN8006 φ35 x φ40	2	2	
56	74513019 (74161629)	Spacer	805558a	2	2	
57	74513115 (74159823)	Oil seal	S-406211	1	1	
58	74513202 (74162529)	Miniature valve	MV-603	1	1	
59	74513011 (74160323)	Middle gear (small)	821576	1	1	
61	74513026 (74160128)	Middle shaft	821570b	1	1	
144	44028619	Spring washer	M12	4	4	
145	10001521	Spring washer	M8	4	4	
146	74302821	Cap screw	M12 x 45	4	4	
147	44028619	Spring washer	M12	4	4	
148	74513221 (44552306)	Plug	PT 3/8	2	2	
151	74513207 (74303005)	Hose nipple	NH-103	1	1	
188	74513208 (74302926)	Pipe connector	SJ-SA-10-3/8	1	1	
189	74513209 (74302925)	Pipe connector	SJ-S-10-3/8	1	1	
274	74513109 (10312112)	Crown nut	AN07	1	1	
275	74513110 (10205423)	Crown washer	AW07	1	1	

Unit No. 06
Turret

From serial No. C67679 (506072), C57982 (505072) and after.

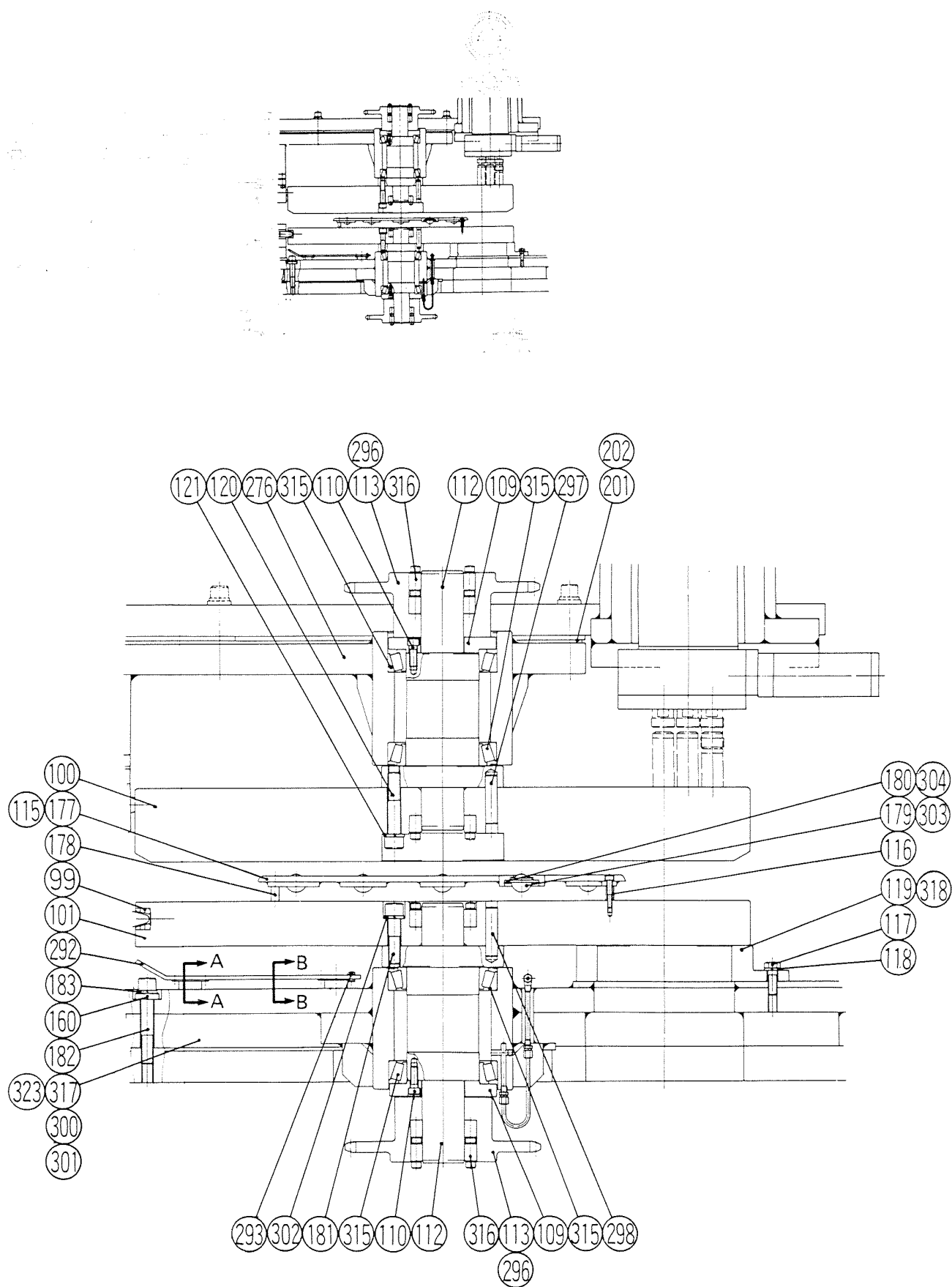


Unit No. 06

Turret

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
2	74513602 (74160124)	Spann ring	RfN7012 $\phi 70 \times \phi 110$	2	2	
3	74513330 (74160401)	Sprocket	821509	2	2	
7	74513307	Motor bracket	821511c	1	1	
15	74513607 (74160121)	Ball bearing	#2214	1	1	
30	74302813	Cap screw	M6 x 12	4	4	
31	44027928	Spring washer	M6	4	4	
32	74513612 (74160218)	Snap ring	RTW-140	1	1	
33	74513320 (74159926)	Cover	801527	1	1	
50	74513308	Motor base (lower)	821565d	1	1	
72	74302828	Cap screw	M20 x 100	4	4	
73	74302903	Spring washer	M20	4	4	
76	44028619	Spring washer	M12	4	4	
80	44027928	Spring washer	M6	4	4	
83	74302828	Cap screw	M20 x 100	4	4	
84	74302903	Spring washer	M20	4	4	
89	74513410 (74302604)	Cap	821744d	2	2	
90	74513627 (10001127)	O-ring	P-25	2	2	
91	74513403 (74159929)	Shot pin	821743c	2	2	
94	44028619	Spring washer	M12	4	4	
97	74513628 (36110507)	O-ring	P-60	2	2	
98	74513626 (74159802)	O-ring	P-21	2	2	
152	74513313	Drive shaft	801821b	1	1	
153	74513608 (74160120)	Ball bearing	2216K + H316	1	1	
154	74513319	Bearing cover	801545	1	1	
155	44028814	Countersink head machine screw	M6 x 10	4	4	
156	74513314 (74160320)	Driven gear	821566b	1	1	
157	74534532	Straight pin (with screw)	$\phi 13 \times 80$	3	3	
158	74302828	Cap screw	M20 x 100	12	10	
159	74302903	Spring washer	M20	12	10	
160	74513326 (74159434)	Washer	821009b	30	28	
161	74302815	Cap screw	M6 x 20	8	8	
162	44027928	Spring washer	M6	8	8	
163	74513409 (74159933)	Cylinder packing	801540	2	2	
164	74513404 (74159920)	Shot pin bushing	801530a	2	2	
165	74534530	Straight pin (with screw)	$\phi 13 \times 40$	1	1	
168	74535101	Cap screw	M4 x 12 (UNBRAKO)	8	8	
169	74513424 (74159705)	Shot pin dog	821611b	2	2	
170	74513428 (74159707)	Switch bracket	821613a	4	4	
172	44027930	Washer	M6	8	8	
173	74513429 (74159706)	Switch base	821612	2	2	



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
99	74513701 (74160230)	Bushing	480336k	(64)	(64)	Q'ty: 72 station
100	74513705	Upper turret disk	821760e (72 stations)	1	1	
101	74513706	Lower turret disk	821529f (72 stations)	1	1	
109	74513713	Bearing retainer	821584a	2	2	
110	74535125	Cap screw	M12 x 35 (UNBRAKO)	12	12	
112	74513712	Bearing shaft	801805b	2	2	
113	74513718	Sprocket	821585b	2	2	
115	74513725	Support plate	821538e (46, 44 stations)	1	1	
116	74314410	Cap screw	M8 x 45	6	6	
117	10442949	Bolt	M16 x 45	4	4	
118	74302902	Spring washer	M16	4	4	
119	74513723 (74160114)	Disk support	821505a (46, 44 stations)	1	1	
120	74302828	Cap screw	M20 x 100	6	6	
121	74302903	Spring washer	M20	6	6	
123	74513901	Upper turret disk	821761e (56 stations)	1	1	
124	74513902	Upper turret disk	821765f (52 stations)	1	1	
125	74513903	Upper turret disk	821762e (48 stations)	1	1	
126	74513904	Upper turret disk	821707g (46 stations)	1	1	
127	74513905	Upper turret disk	821534k (44 stations)	1	1	
128	74513906	Upper turret disk	821536e (32 stations)	1	1	
129	74513915	Lower turret disk	821531c (56 stations)	1	1	
130	74513916	Lower turret disk	821766c (52 stations)	1	1	
131	74513917	Lower turret disk	821533c (48 stations)	1	1	
132	74513918	Lower turret disk	821708d (46 stations)	1	1	
133	74513920	Lower turret disk	821537b (32 stations)	1	1	
134	74513919	Lower turret disk	821535g (44 stations)	1	1	
177	74513724	Support plate	821912c (72, 56, 52, 48, 32 stations)	1	1	
178	74513726 (74160224)	Retainer	821913a	6	6	
179	74514008 (75171014)	Free stroke bearing	C-8L (72, 56, 52, 48, 32 stations)	19	19	
180	74514014 (74160220)	Snap ring	RTW-56 (72, 56, 52, 48, 32 stations)	19	19	
181	74302827	Cap screw	M20 x 80	6	6	
182	10443142	Cap screw	M20 x 120	18	18	
183	74302903	Spring washer	M20	18	18	
201	74513511	Shim (B)	821526e (front side)	1	1	
202	74513512	Shim (C)	821527b (rear side)	1	1	
292	74513811	Scrap receiver	821783a	1	1	
293	73157630	Cap screw	M8 x 15	4	4	
296	74514020	Chain	RS-100 104 links	2	—	
296	74514021	Chain	RS-100 88 links	—	2	
297	74534533	Straight pin (with screw)	φ20 x 90	2	2	

Unit No.06

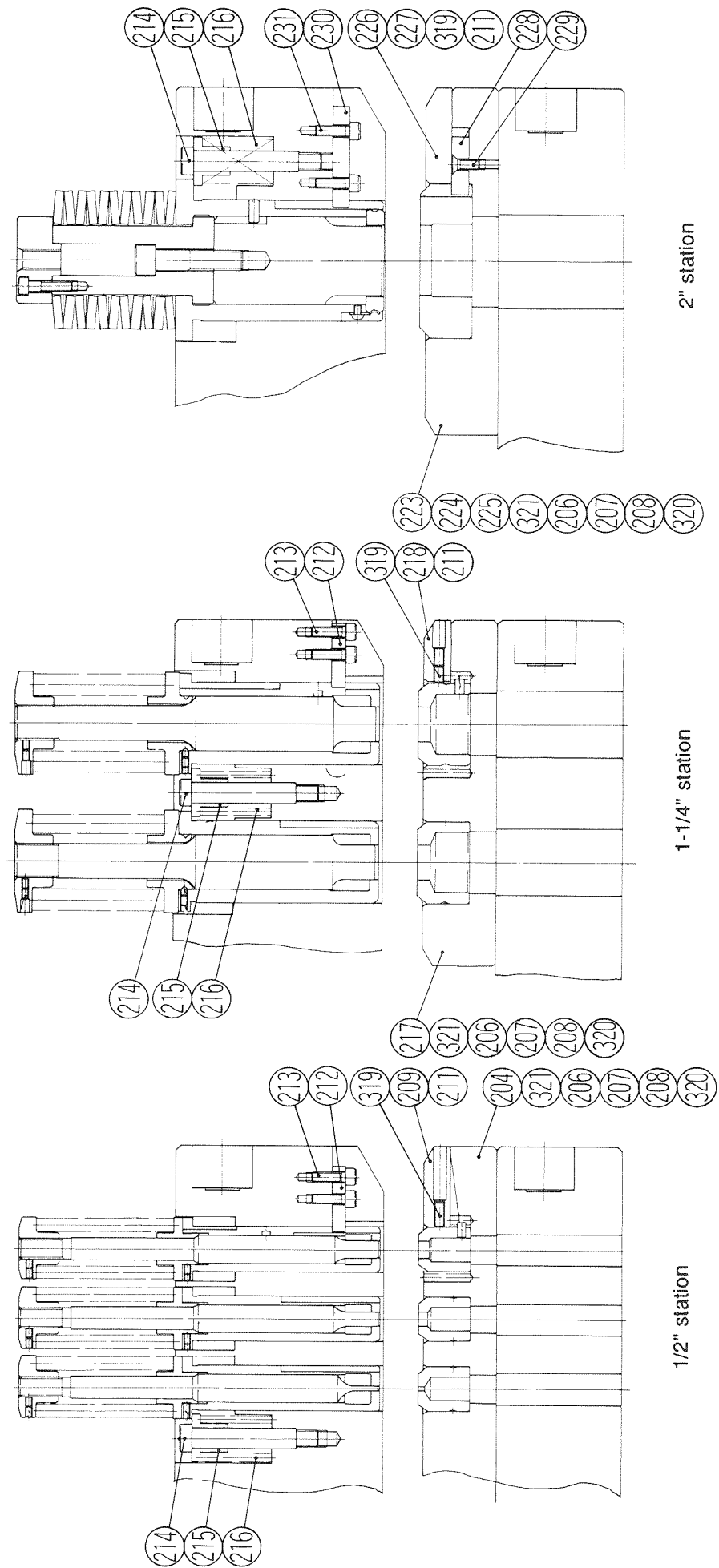
Turret

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 06
Turret

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 06

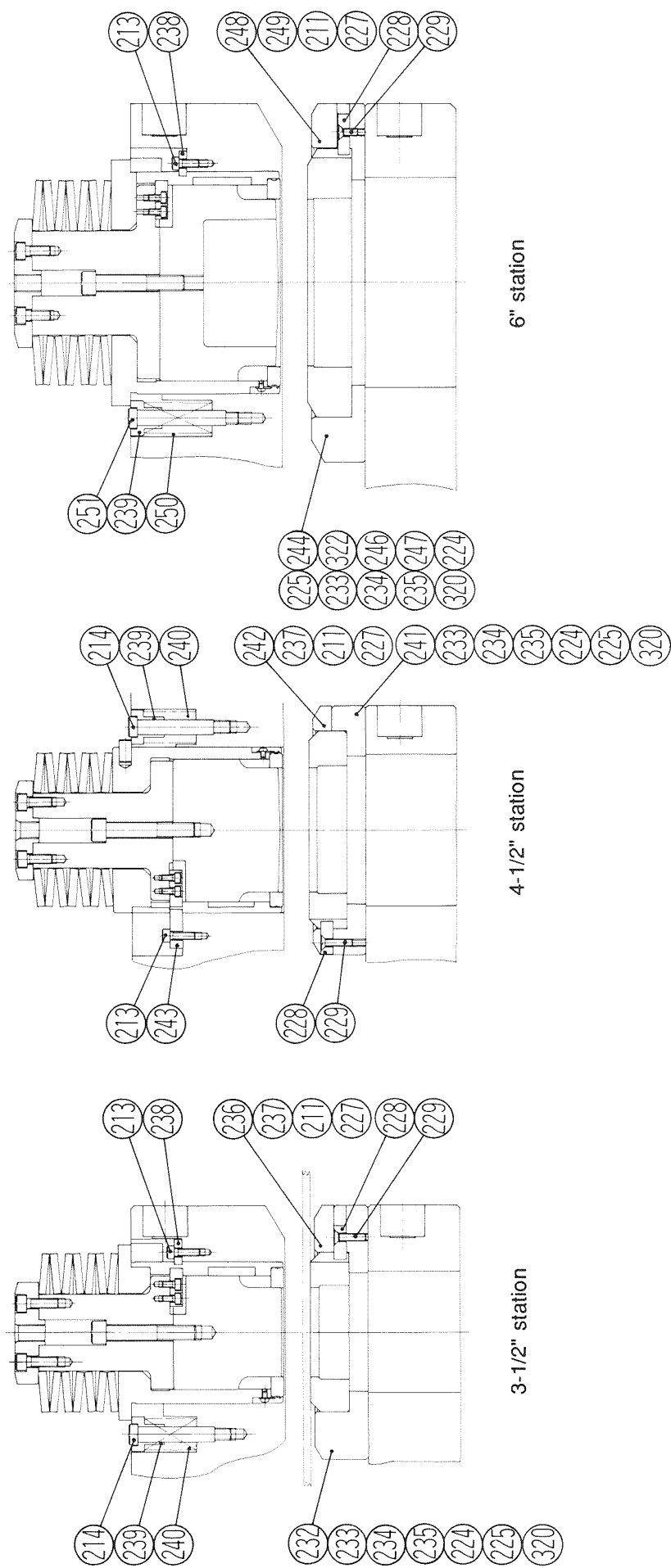
Turret

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 06
Turret

From serial No. C67679 (506072), C57982 (505072) and after.

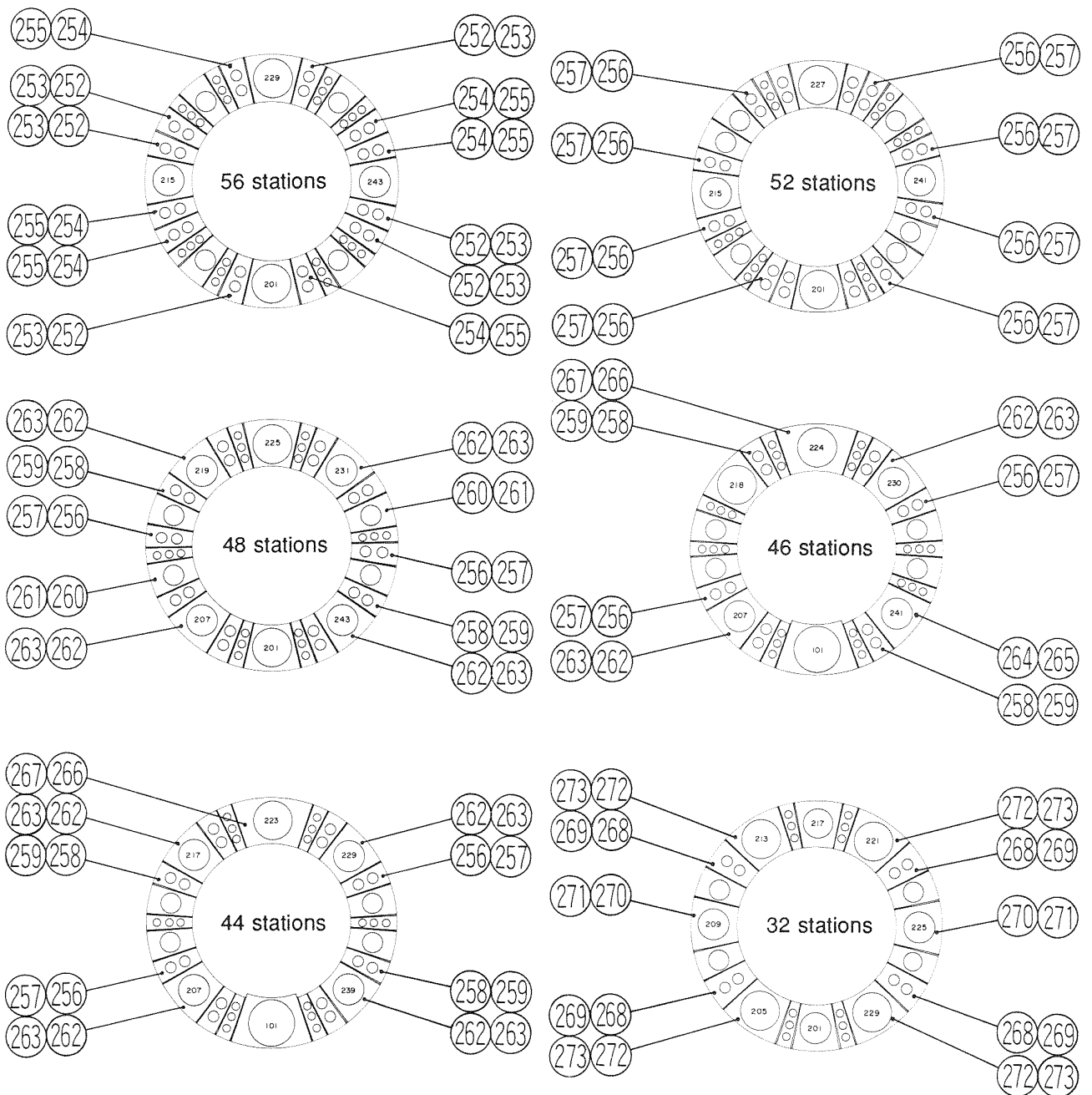


Unit No. 06

Turret

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



* Stations not indicated by index Nos. use the following die holder and die spacer.

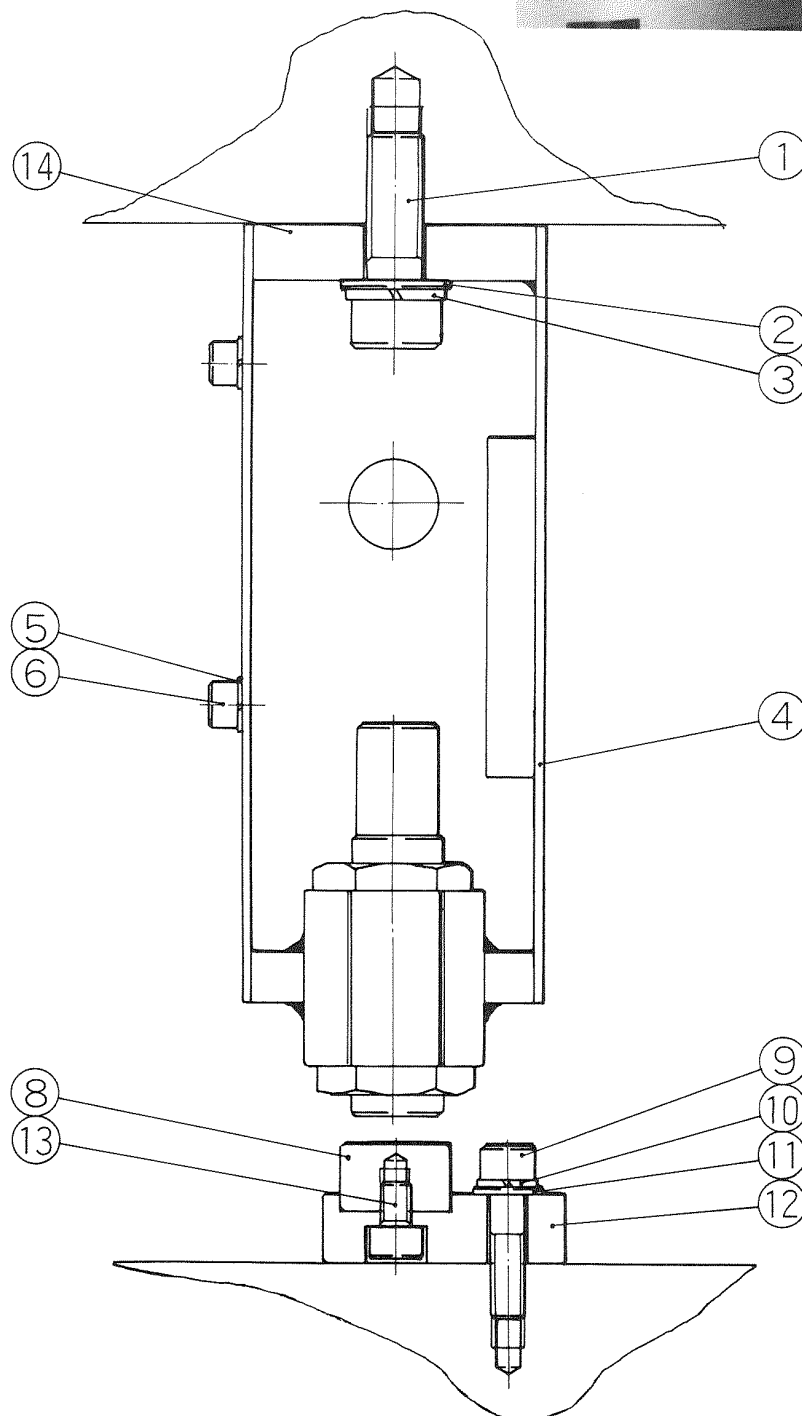
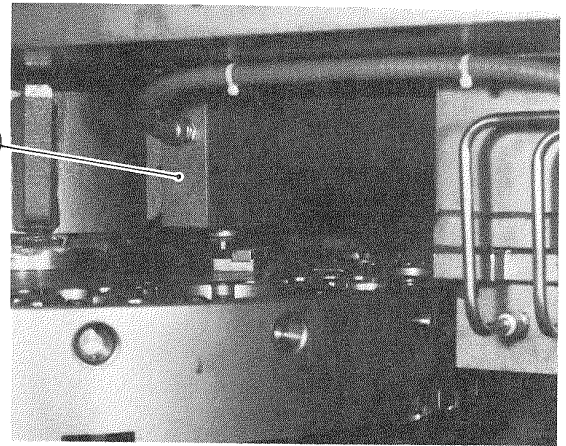
Station	Die holder index No.	Die spacer index No.
1/2"	204	209
1-1/4"	217	218
2"	223	226
3-1/2"	232	236
4-1/2"	241	242
6"	244	248

Unit No. 06

Turret

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

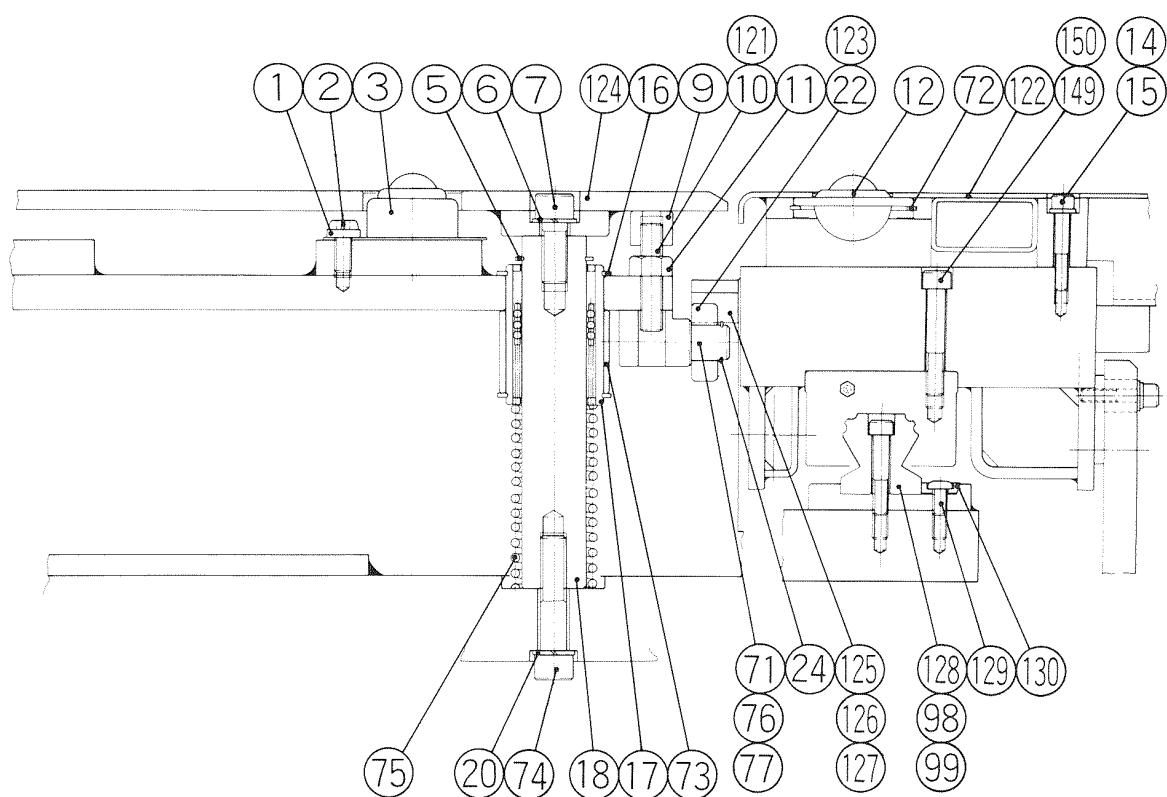
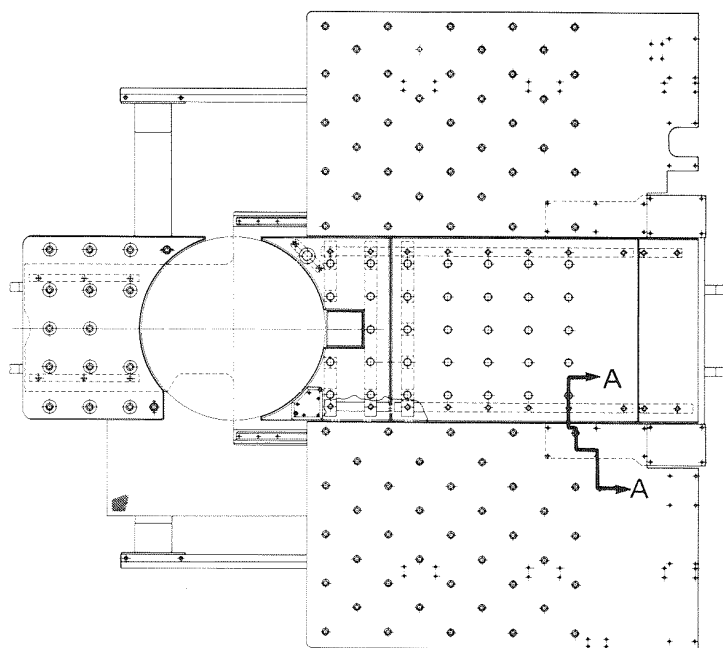


Unit No. 07

Turret origin

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



SECTION "A - A"

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74535215	Toothed lock washer	M8	68	58	
2	74535405	Button head socket screw	M8 x 20	68	58	
3	74515602 (74161611)	Free stroke bearing	C-8Y-A	34	29	
5	74515618 (10423731)	Snap ring	STW-30	12	10	
6	44028619	Spring washer	M12	26	24	
7	44028616	Cap screw	M12 x 30	26	24	
9	74515202 (71103201)	Cushion	823072	14	12	
10	74534606	Set screw (flat end)	M10 x 50 (UNBRAKO)	12	10	
11	10001516	Nut	M10	14	12	
12	74514008 (75171014)	Free stroke bearing	C-8L	80	70	
14	10001521	Spring washer	M8	28	28	
15	74314410	Cap screw	M8 x 45	28	28	
16	74515619 (23134517)	Snap ring	STW-45	24	20	
17	74515603	LM stroke bearing	ST-30 (with spring)	12	10	
18	74515207 (74161124)	Stud (A)	823175d	12	10	
20	44028619	Spring washer	M12	12	10	
22	74515219 (74161130)	Roller	803028a	14	12	
24	74515616 (44343106)	Snap ring	STW-16	14	12	
71	74515137	Roller base	824625	12	10	
72	74514014 (74160220)	Snap ring	RTW-56	80	70	
73	74515231	Collar	823173	12	10	
74	74304914	Cap screw	M12 x 55	12	10	
75	74515203	Spring	823174	12	10	
76	74302818	Cap screw	M8 x 30	24	20	
77	10001521	Spring washer	M8	24	20	
98	74535133	Cap screw	M8 x 45 (UNBRAKO)	42	34	
99	74515630	Straight pin	φ8 x 32	4	4	
121	74534605	Set screw (flat end)	M10 x 40 (UNBRAKO)	2	2	
122	74515102	Front side table	823453b	1	—	
122	74515103	Front side table	823455c	—	1	
123	74314206	Washer	M16	2	2	
124	74515120	CR table	823084a	1	—	
124	74515121	CR table	803151a	—	1	
125	74515220	Roller cam	824737	2	2	
126	74535109	Cap screw	M6 x 25 (UNBRAKO)	6	6	
127	44027928	Spring washer	M6	6	6	
128	74515303 (74160640)	Y-axis LM guide	7932042	2	—	
128	74515304 (74160641)	Y-axis LM guide	7932043	—	2	
129	74535412	Button head socket screw	M8 x 15 (UNBRAKO)	25	21	
130	74515309	LM guide stopper collar	823125	25	21	

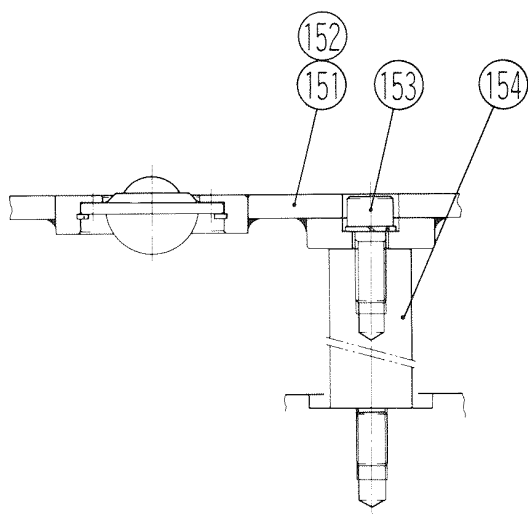
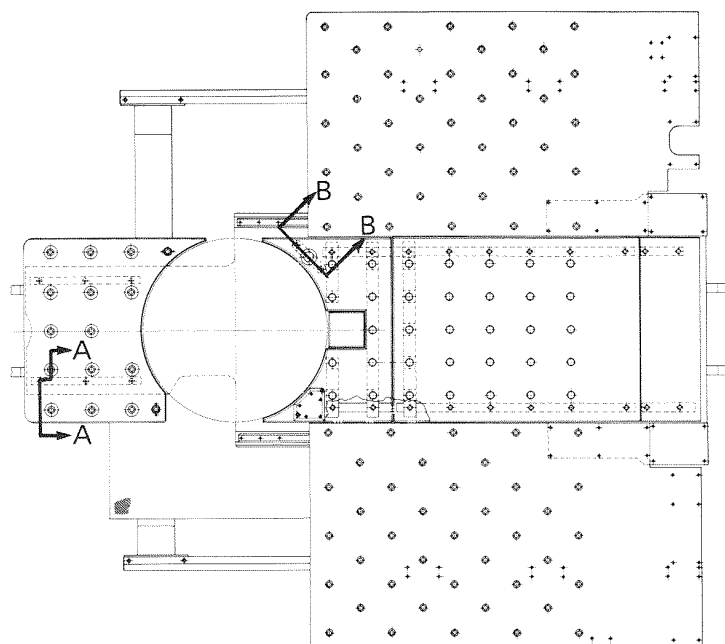
Table

From serial No. C67679 (506072), C57982 (505072) and after.

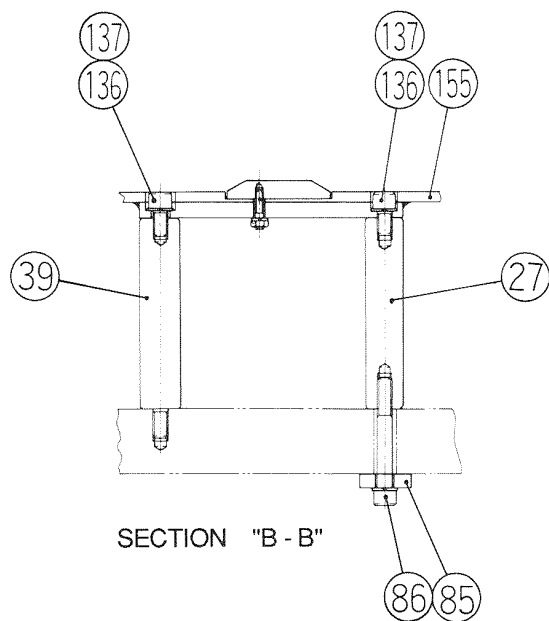
[illegible]

Unit No. 08
Table

From serial No. C67679 (506072), C57982 (505072) and after.



SECTION "A - A"



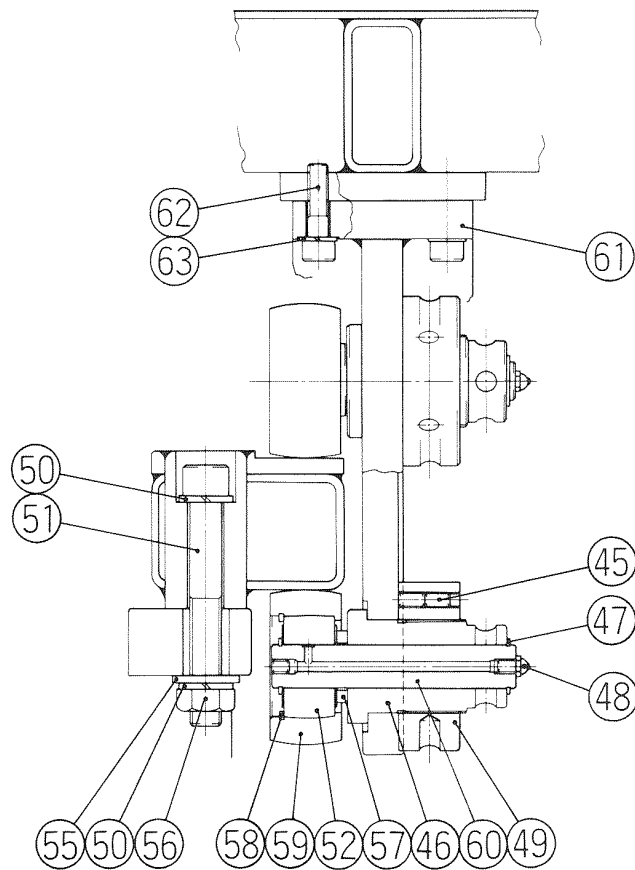
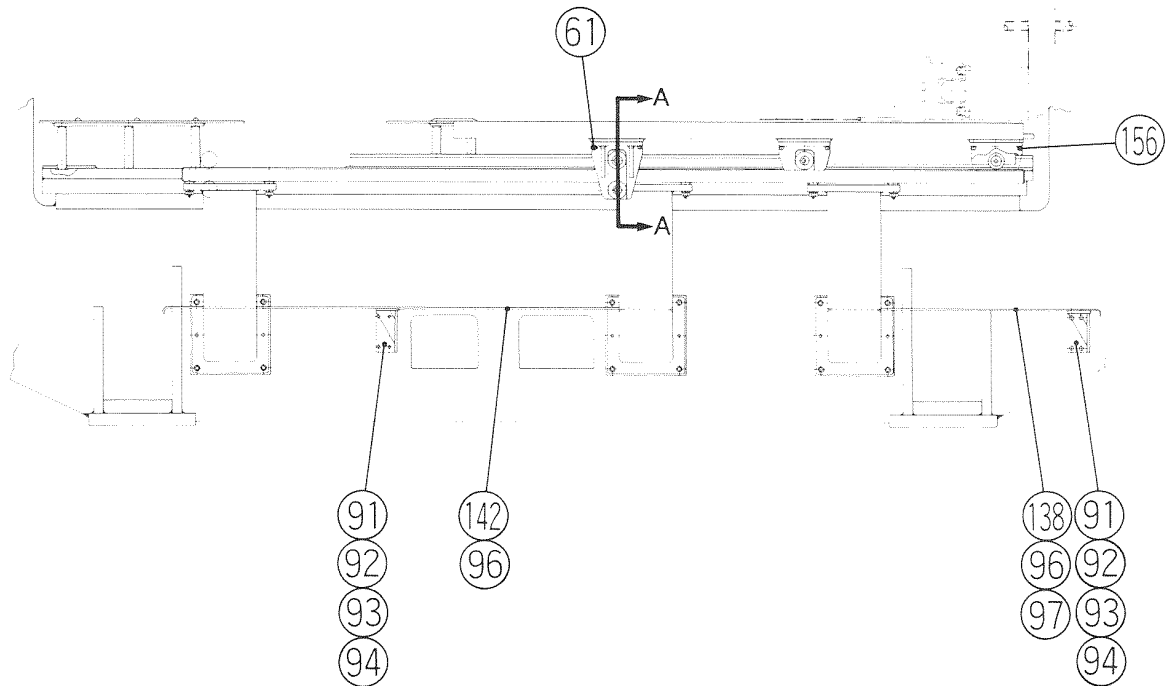
SECTION "B - B"

Unit No. 08

Table

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



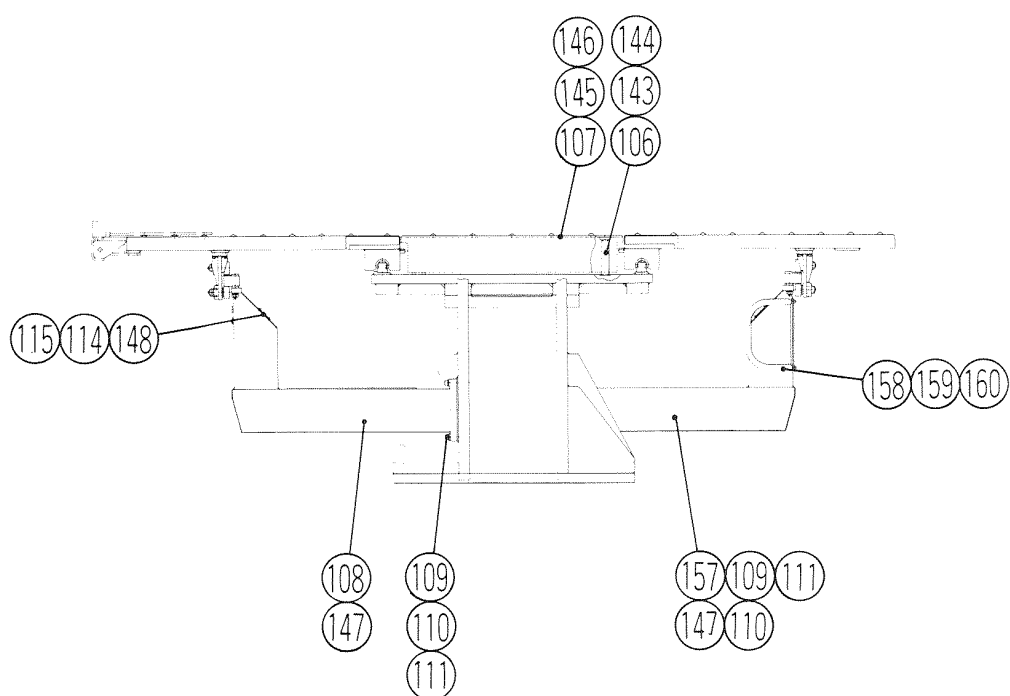
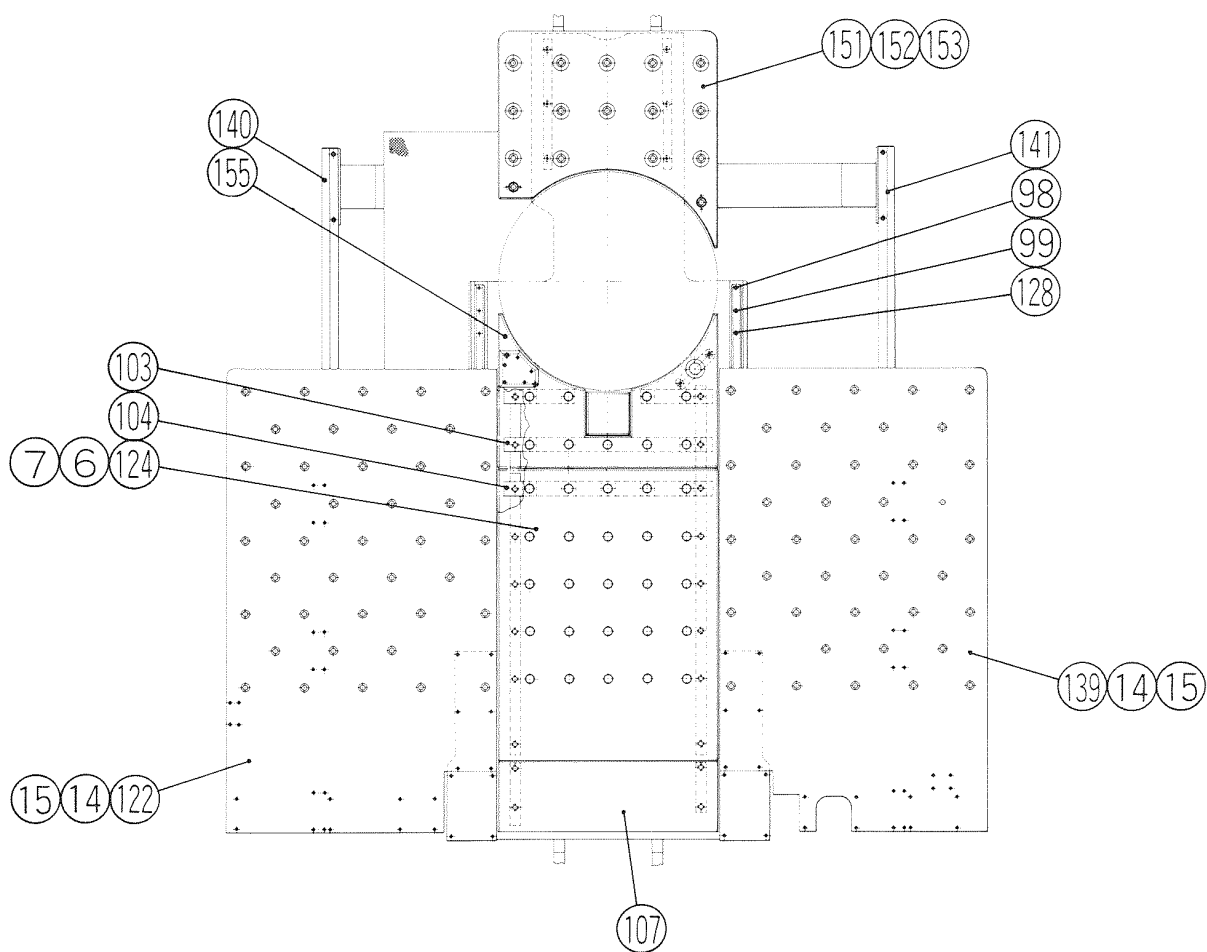
SECTION "A - A"

Unit No.08

Table

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



Unit No. 08

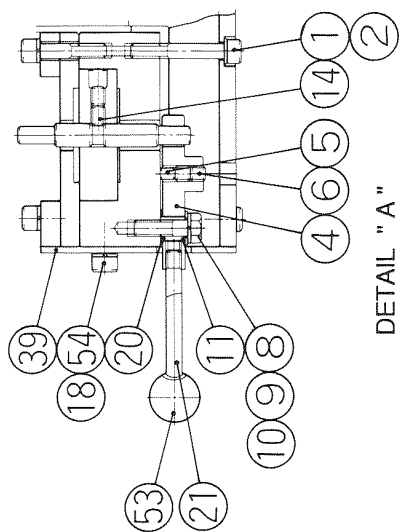
Table

From serial No. C67679 (506072), C57982 (505072) and after.

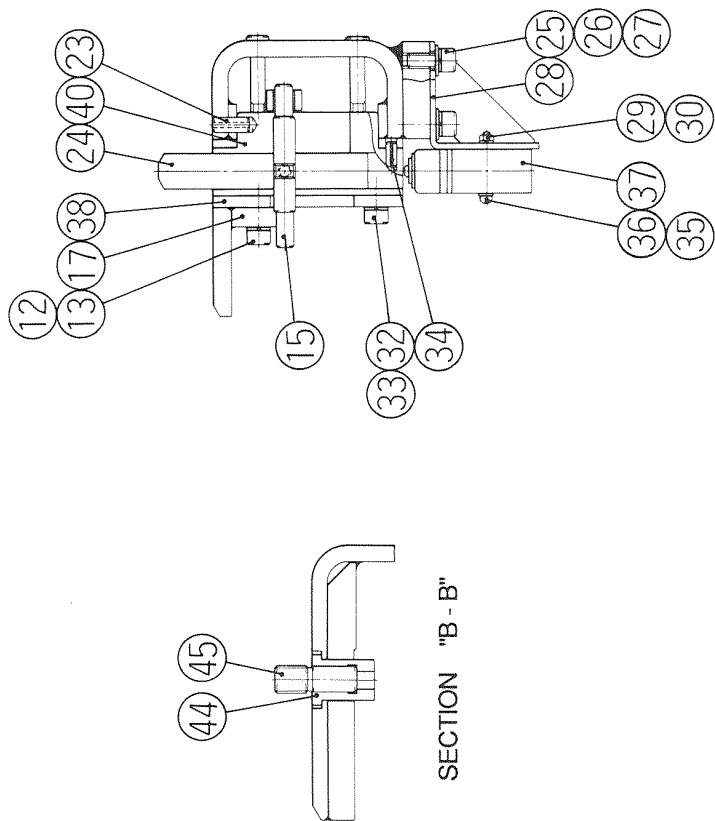
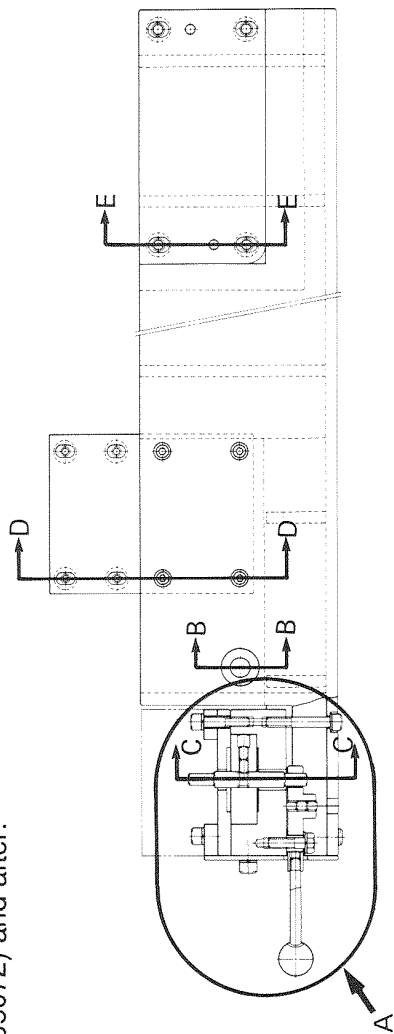
[illegible]

Unit No. 09
X-gauge block

From serial No. C67679 (506072), C57982 (505072) and after.



DETAIL "A"



SECTION "B - B"

SECTION "C - C"

SECTION "D - D"

SECTION "E - E"

Unit No. **09**
X-gauge block

From serial No. C67679 (506072), C57982 (505072) and after.

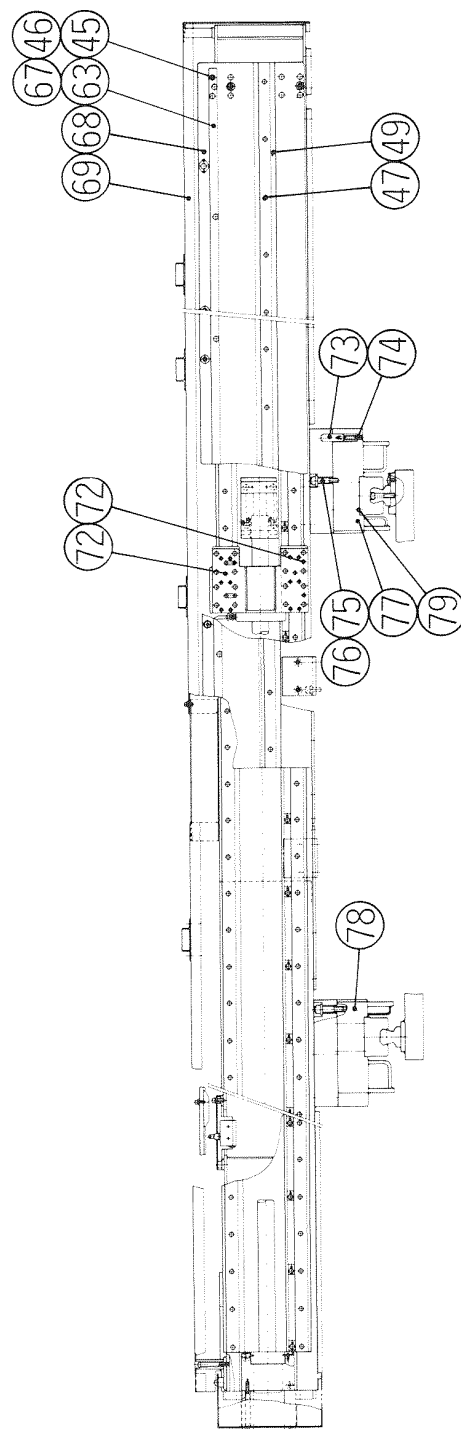
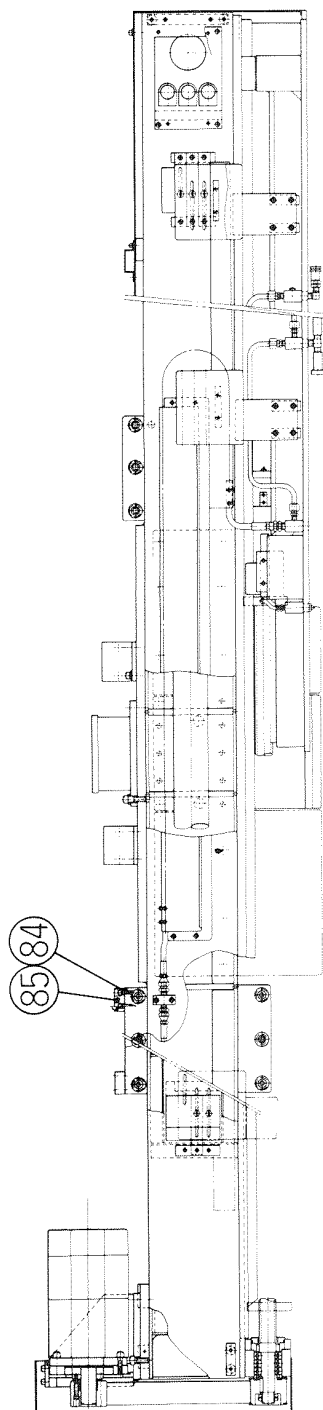
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74314411	Cap screw	M8 x 50	4	4	
2	74535215	Toothed lock washer	M8	4	4	
4	74515801 (74161208)	Lever	803067b	1	1	
5	74515810 (74161234)	Lining	805011	1	1	
6	74306408	Set screw (flat end)	M8 x 8	2	2	
7	74515703	Stopper arm	823203d	1	1	
8	37014513	Bolt	M8 x 30	1	1	
9	10001521	Spring washer	M8	1	1	
10	74300511	Washer	M8	1	1	
11	74515803 (74161210)	Bushing	481605	1	1	
12	10001521	Spring washer	M8	2	2	
13	38020507	Cap screw	M8 x 35	2	2	
14	74314811	Set screw (flat end)	M8 x 10	2	2	
15	74515813	Pin	823209b	1	1	
17	74515818	Cylinder cover	823211	1	1	
18	10001521	Spring washer	M8	2	2	
20	74515804 (74161225)	Collar	481607	1	1	
21	74515802 (74161211)	Stud bolt	481606	1	1	
23	74515814	Pin (with screw)	481604	2	2	
24	74515709 (74161241)	Stopper	823206c	1	1	
25	44235241	Cap screw	M8 x 20	4	4	
26	74300511	Washer	M8	4	4	
27	10001521	Spring washer	M8	4	4	
28	74515825	Bracket	823216a	1	1	
29	74300501	Nut	M4	2	2	
30	44027327	Spring washer	M4	2	2	
32	21415514	Cap screw	M8 x 25	2	2	
33	10001521	Spring washer	M8	2	2	
34	74534501	Spring pin	Φ6 x 14	4	4	
35	74300510	Washer	M4	2	2	
36	52111255	Pan head machine screw	M4 x 35	2	2	
37	74515903 (74163503)	Limit switch	BZE6-2RN-J	1	1	
38	74515716	Stopper retainer	829616a	1	1	
39	74515717	Stopper cover	823214c	1	1	
40	74515704	Stopper bracket	829624b	1	1	
41	74535119	Cap screw	M10 x 35 (UNBRAKO)	4	4	
42	10001520	Spring washer	M10	4	4	
43	74534524	Straight pin (with screw)	Φ8 x 30	2	2	
44	74515711 (75170931)	Bushing	290008b	1	1	
45	74515710	Stopper pin	823215a	1	1	

X-gauge block

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 10

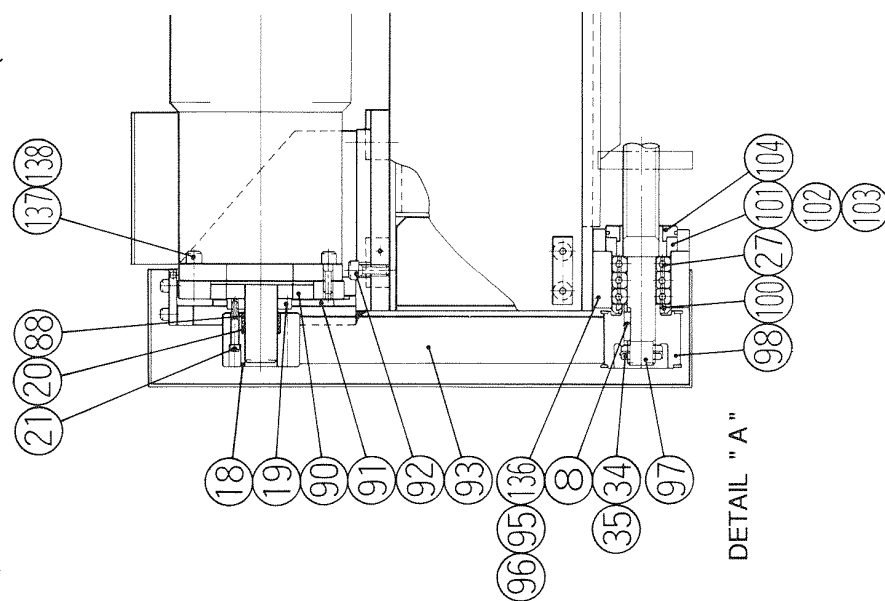
X-axis slide

From serial No. C67679 (506072), C57982 (505072) and after.

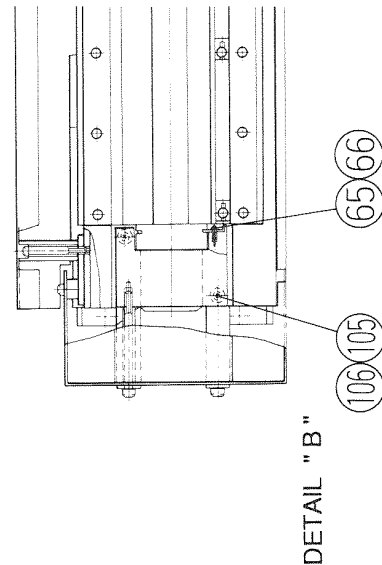
[illegible]

Unit No. 10
X-axis slide

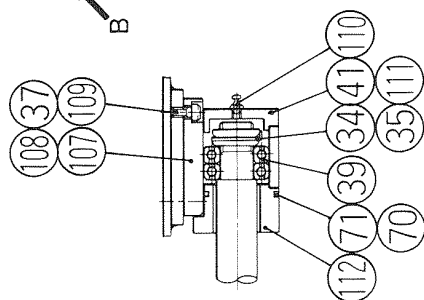
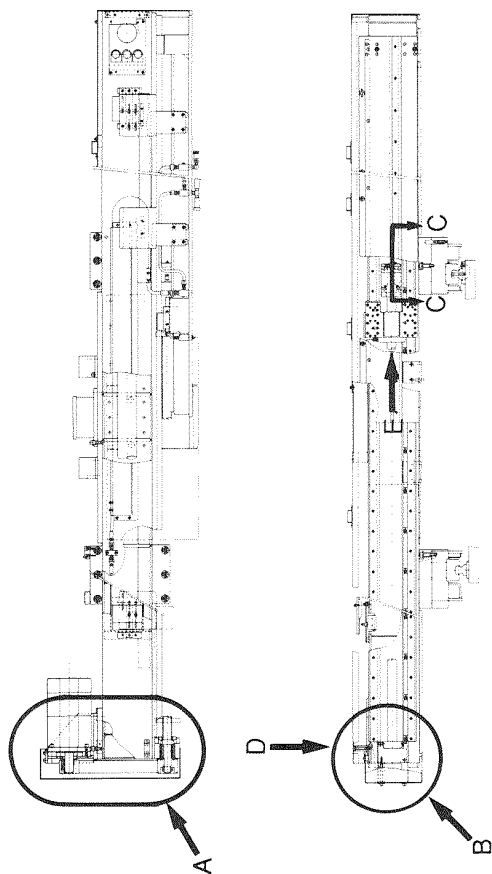
From serial No. C67679 (506072), C57982 (505072) and after.



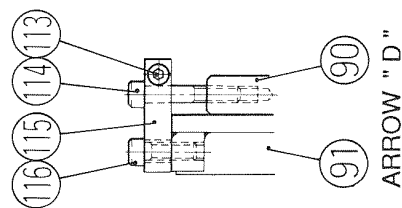
DETAIL "A"



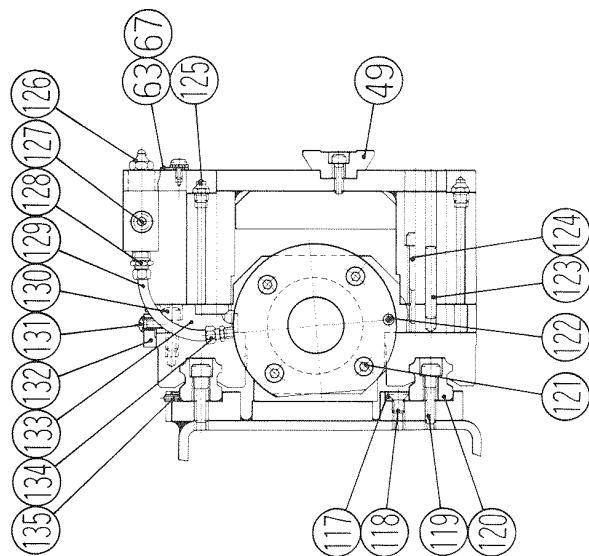
DETAIL "B"



SECTION "C - C"



ARROW "D"



ARROW "E"

Unit No. 10

X-axis slide

From serial No. C67679 (506072), C57982 (505072) and after.

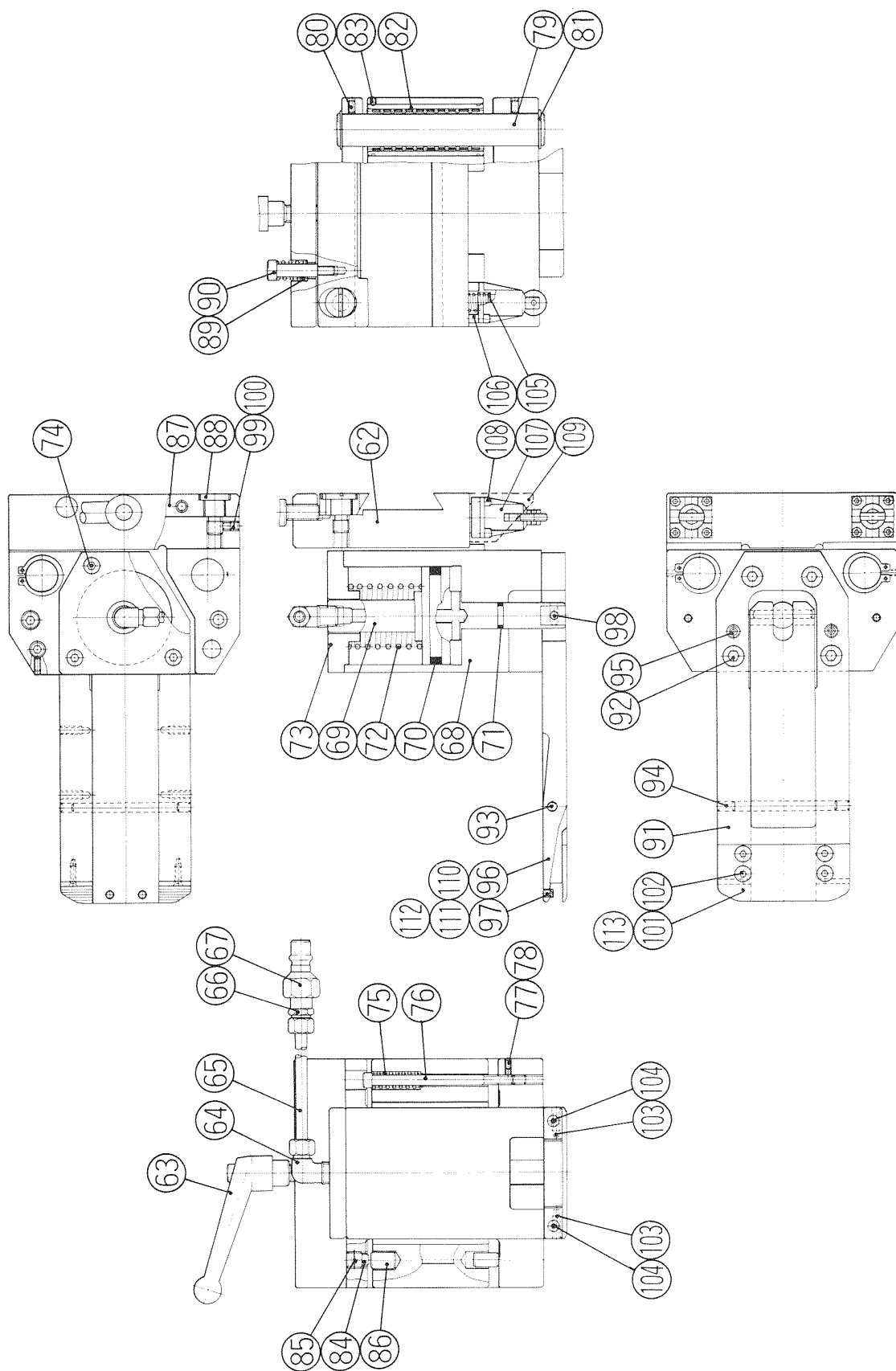
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
8	74516131 (74160932)	Key	805536b	1	1	
18	74516122	Drive pulley	823021b	1	1	
19	74516202 (74161631)	Flange	823022	1	1	
20	74516408 (74161705)	Spann ring	RfN8006 $\phi 35 \times \phi 40$	2	2	
21	10310362	Cap screw	M6 x 45	4	4	
27	74516402 (74161023)	Ball bearing	7206CDFS/GNP4	1	1	
34	74516421 (10310733)	Crown washer	AW-06	2	2	Please order together with index No. 35.
35	74516420 (58134502)	Crown nut	AN-06	4	4	Please order together with index No. 34.
37	10001521	Spring washer	M8	4	4	
39	75416403 (43132407)	Ball bearing	7206CDB/GNP4	1	1	
41	74516302 (74161002)	Bearing cover	803087a	1	1	
65	74516024	Washer	803022a	2	2	
66	74535401	Button head socket screw	M6 x 10	2	2	
70	74535302	Countersink head socket screw	M5 x 8	4	4	
71	74516117	Plate	815523a	2	2	
88	74516132 (74161629)	Spacer	805558a	2	2	
90	74516209 (74304722)	Motor plate	824076	1	1	
91	74516208 (74304720)	Motor bracket	824075d	1	1	
92	74535124	Cap screw	M12 x 30 (UNBRAKO)	4	4	
93	74516414	Timing belt	420-H-200	1	1	
95	74534526	Straight pin (with screw)	$\phi 8 \times 45$	2	2	
96	74516514 (78183327)	Grease nipple	B-PT 1/8"	1	1	
97	74516219	Ball screw	7932030	1	1	
98	74516123	Driven pulley	823076d	1	1	
100	74516425 (74304923)	Oil seal	AF-2340F0	1	1	
101	74516305	Bearing retainer	823107	1	1	
102	74535114	Cap screw	M8 x 20 (UNBRAKO)	4	4	
103	10001521	Spring washer	M8	4	4	
104	74516311	Damper (A)	823108	1	1	
105	74535119	Cap screw	M10 x 35 (UNBRAKO)	4	4	
106	10001520	Spring washer	M10	4	4	
107	74516304	Bearing housing	824736	1	1	
108	74534522	Straight pin (with screw)	$\phi 6 \times 25$	2	2	
109	21415514	Cap screw	M8 x 25	4	4	
110	74516513 (75169304)	Grease nipple	A-PT 1/8"	1	1	
111	74535108	Cap screw	M6 x 20 (UNBRAKO)	4	4	
112	74516312	Damper (B)	824705	1	1	
113	75168508	Cap screw	M6 x 25	1	1	
114	74314410	Cap screw	M8 x 45	1	1	
115	74516214 (74304725)	Tension block	824077	1	1	

Unit No. 10

X-axis slide

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



Unit No. 11

Pneumatic clamp

From serial No. C67679 (506072), C57982 (505072) and after.

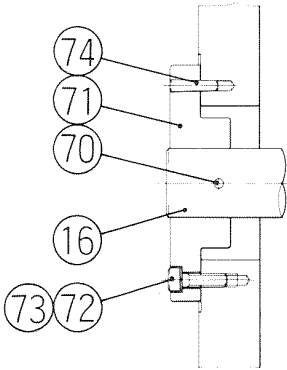
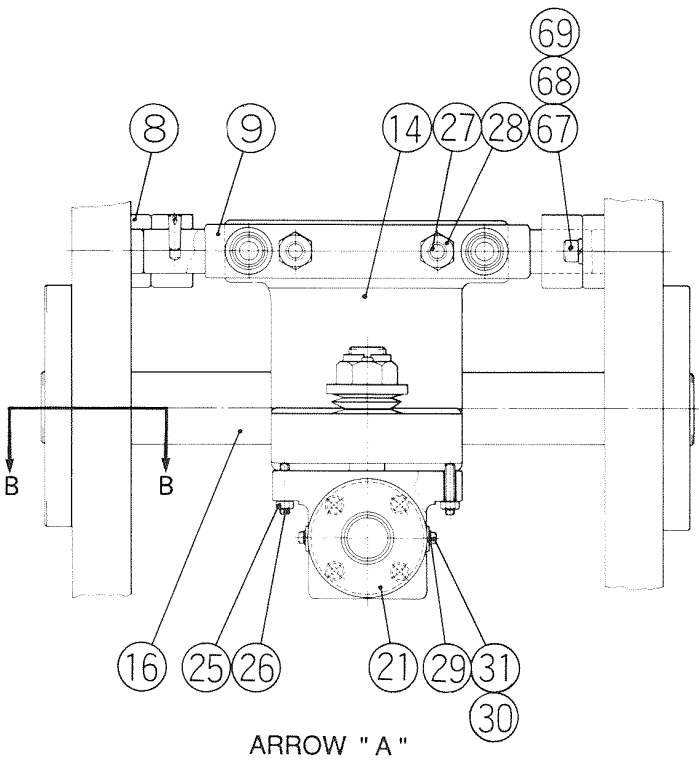
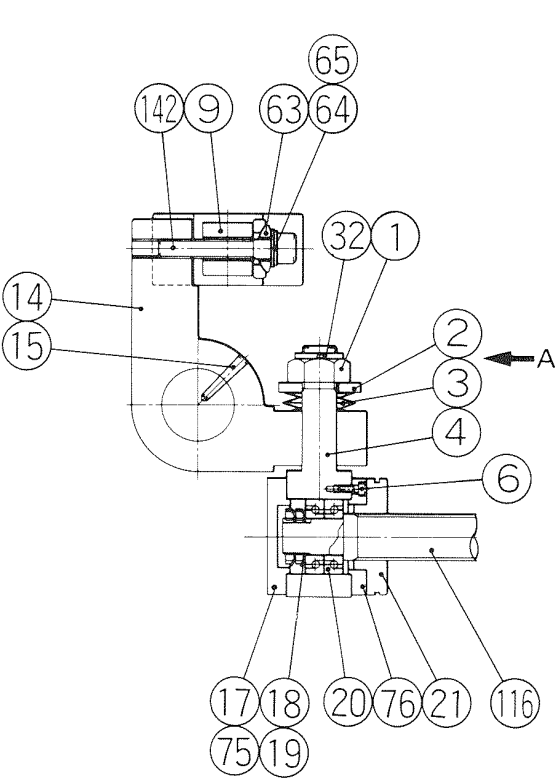
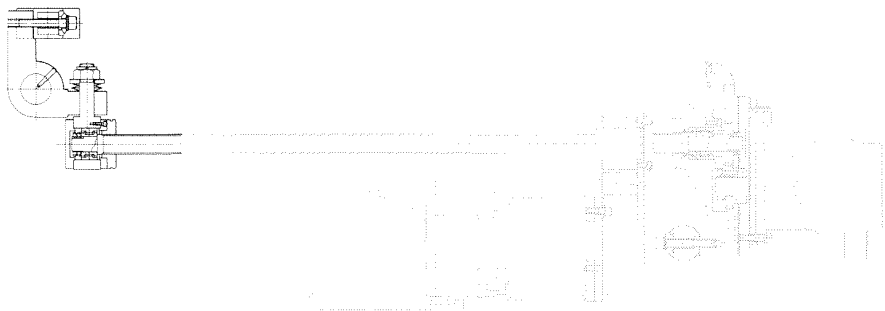
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
61	74516801 (74335801)	Clamp ass'y	826180f	2	2	f: June '89 ~
62	74516915 (74335806)	Clamp housing	826181b	2	2	
63	74517002 (74305232)	Clamp lever	KR10 x 20	2	2	
64	74517027 (74305520)	Elbow	B-6 x 4-PT 1/4-BS	2	2	
65	74517029 (75169501)	Tube	30-06 (1 m)	2	2	
66	74517028 (74304832)	Nipple	A-6 x 4-PT 1/4-BS	2	2	
67	74517030 (74162522)	Coupler (plug)	20PP (1/4")	2	2	
68	74516805 (74335816)	Cylinder	826183c	2	2	
69	74516806 (74335821)	Piston	826184c	2	2	
70	74517007 (10317120)	O-ring	P-50A	2	2	
71	74305201 (36110514)	O-ring	P-12	2	2	
72	74516811 (74161330)	Spring	806005	2	2	
73	74516807 (74335901)	Cylinder cap	826188	2	2	
74	74300604	Cap screw	M6 x 15	8	8	
75	74516815	Hanging spring	826218	4	4	
76	74304907	Cap screw	M6 x 85	4	4	
77	74516819 (74303816)	Insert	806073	4	4	
78	74306405	Set screw (cup end)	M6 x 6	4	4	
79	74516902 (74335830)	Stroke shaft	826187	4	4	
80	74306405	Set screw (cup end)	M6 x 6	8	8	
81	74517012 (10001102)	Snap ring	STW-20	8	8	
82	74516903 (74303528)	Stroke bearing	6010232	4	4	
83	74353901	Set screw (cone end)	M4 x 4	4	4	
84	74305509	Set screw (dog end)	M10 x 14	4	4	
85	74306405	Set screw (cup end)	M6 x 6	4	4	
86	74516908 (74303731)	Cushion	806009	8	8	
87	74516916 (74304608)	Lock plate	816004a	2	2	
88	74516917 (74304611)	Pressure pin	816005b	4	4	
89	74516923 (74304614)	Release spring	816006	4	4	
90	74517022 (74304022)	Stripper bolt	STO 8 x 25	4	4	
91	74516823 (74335906)	Clamp base	826189a	2	2	
92	73157630 (73157630)	Cap screw	M8 x 15	8	8	
93	74534512	Straight pin	Φ6h7 x 63	2	2	
94	74534616	Set screw (cone end)	M8 x 8	2	2	
95	74534527	Straight pin (with screw)	Φ10m6 x 28	4	4	
96	74516824	Clamper	826227a	2	2	
97	74516825 (74335830)	Set screw (cone end)	826186	4	4	
98	74534508	Straight pin	Φ5m6 x 36	2	2	
99	74516819 (74303816)	Insert	806073	4	4	
100	74306405	Set screw (cup end)	M6 x 6	4	4	

Unit No. 11

Pneumatic clamp

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



SECTION "B - B"

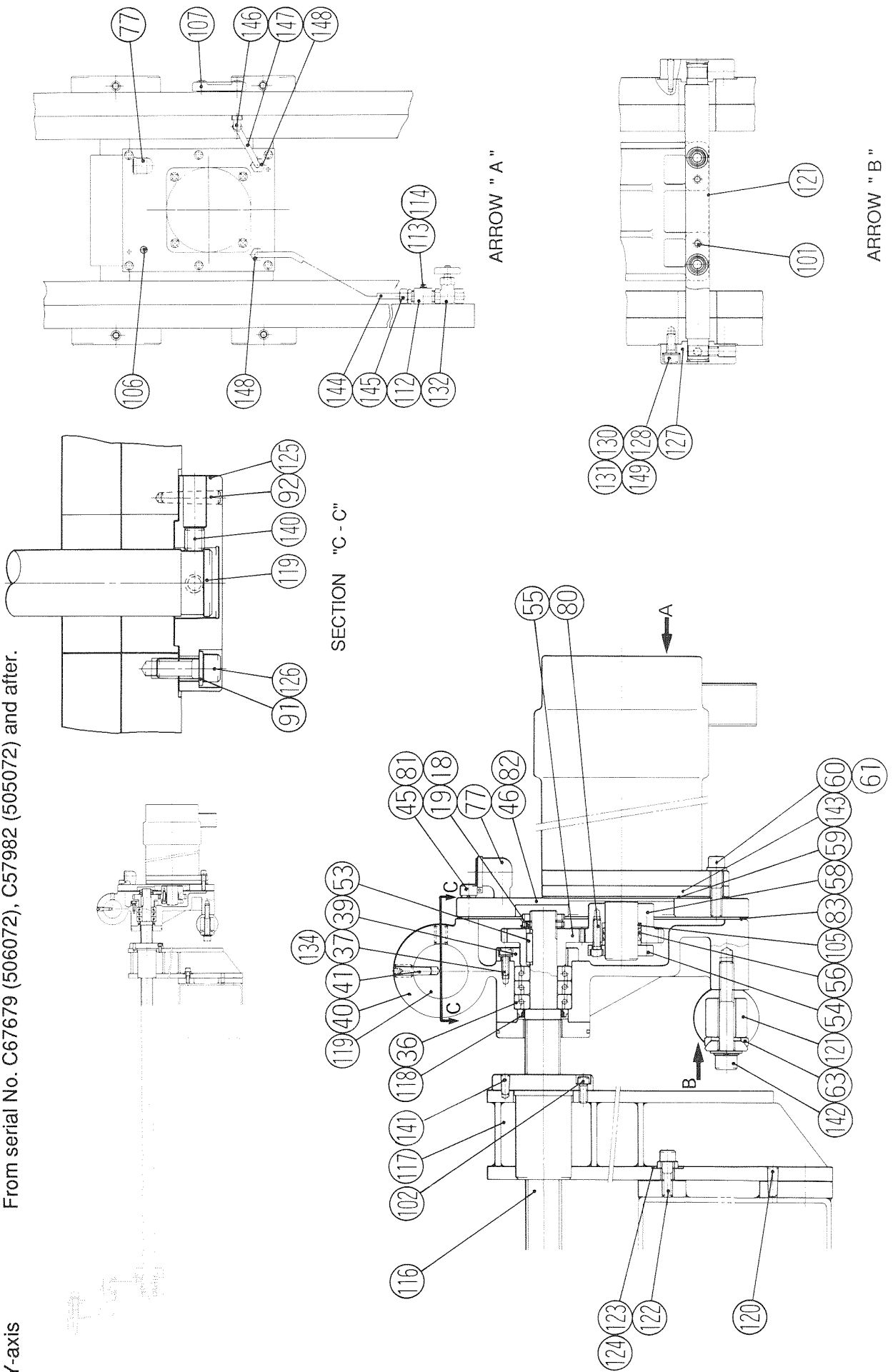
Unit No. 12

Y-axis

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74517802	Castle nut	M30 type-2	1	1	
2	74517602 (74303701)	Washer	805519	1	1	
3	74517803	Cone disk spring	L $\phi 63 \times \phi 30 \times 2.5$	4	4	
4	74517526 (74160811)	Bearing housing	825508	1	1	
6	74307602	Cap screw	M6 x 16	4	4	
8	74517504	Stay bracket	801558d	2	2	
9	74517503	Y-axis stay (left)	825511	1	1	
14	74517518	Bracket	805515a	1	1	
15	74534404	Taper pin (with screw)	$\phi 8 \times 40$	1	1	
16	74517522	Bar	805521a	1	1	
17	74517527 (74161003)	Bearing cover	805541a	1	1	
18	74516420 (58134502)	Crown nut	AN06	4	4	Please order together with index No. 19.
19	74516421 (10310733)	Crown washer	AW06	4	4	Please order together with index No. 18.
20	74516403 (43132407)	Ball bearing set	7206CDB/GNP4	1	1	
21	74517617 (74161606)	Damper (A)	823008b	2	2	
25	10001517	Nut	M8	4	4	
26	10363010	Set screw (flat end)	M8 x 40	4	4	
27	36323920	Set screw	M16 x 70	2	2	
28	10001515	Nut	M16	2	2	
29	74517603	Washer	825512	4	4	
30	74535212	Toothed lock washer	M4	4	4	
31	36323415	Cap screw	M4 x 8	4	4	
32	74517832	Cotter pin	$\phi 6 \times 55$	1	1	
63	74517808	Spherical bushing	SAT-17	4	4	
64	74314206	Washer	M16	4	4	
65	74302902	Spring washer	M16	4	4	
67	74304917	Cap screw	M12 x 40	4	4	
68	44028619	Spring washer	M12	4	4	
69	44028618	Washer	M12	4	4	
70	74534404	Taper pin (with screw)	$\phi 8 \times 40$	1	1	
71	74517523	Retainer	825566	2	2	
72	74304918	Cap screw	M10 x 35	8	8	
73	10001520	Spring washer	M10	8	8	
74	74534404	Taper pin (with screw)	$\phi 8 \times 40$	4	4	
75	74302815	Cap screw	M6 x 20	4	4	
76	74517528 (74160923)	Bearing retainer	825509	1	1	
116	74517610	Ball screw	7932031	1	—	
116	74517611	Ball screw	7932032	—	1	
142	10443049	Cap screw	M16 x 90	4	4	

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 12

Y-axis

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
36	74516402 (74161023)	Ball bearing set	7206CDFT/GNP4	1	1	
37	74535114	Cap screw	M8 x 20 (UNBRAKO)	4	4	
39	74517623	Bearing retainer	805534c	1	1	
40	74517622	Y-axis gear box	825505b	1	1	
41	74534404	Taper pin (with screw)	Φ8 x 40	1	1	
45	74304917	Cap screw	M12 x 40	6	6	
46	74517712	Motor bracket	825516d	1	1	
53	74517702 (74160932)	Key	805536b	1	1	
54	74517706 (74161630)	Flange	805559a	1	1	
55	74517627	Driven gear	805542a	1	1	
56	74516408 (74161705)	Spann ring	RfN8006 Φ35 x Φ40	2	2	
58	74517628 (74161025)	Drive gear	805557a	1	1	
59	74517717 (74161701)	Packing	805560	1	1	
60	74517809 (44339823)	Seal washer	WF-12	4	4	
61	74535129	Cap screw	M12 x 55 (UNBRAKO)	4	4	
77	74517813	Elbow cup	32 x PT 3/8"	1	1	
80	74535110	Cap screw	M6 x 35 (UNBRAKO)	4	4	
81	44028619	Spring washer	M12	6	6	
82	74534525	Straight pin (with screw)	Φ8 x 32	2	2	
83	74517718 (74160831)	Packing	805511a	1	1	
91	74314206	Washer	M16	8	8	
92	74534405	Taper pin (with screw)	Φ10 x 50	4	4	
101	74534614	Set screw	M16 x 25	4	4	
102	74535115	Cap screw	M8 x 25 (UNBRAKO)	4	4	
105	74517707 (74161629)	Spacer	805558a	2	2	
106	74517833 (29211732)	Plug	3/8"	1	1	
107	74517724	Oil level gauge	7930006	1	1	
112	74517725	Oil level gauge block	825515d	1	1	
113	10310362	Cap screw	M6 x 45	2	2	
114	44027928	Spring washer	M6	2	2	
117	74517730	Nut holder	825523d	1	1	
118	74517828	Oil seal	VC-Φ38 x Φ54 x 6	1	1	
119	74517512	Stay (A)	825627a	1	1	
120	74534525	Straight pin (with screw)	Φ8 x 32	2	2	
121	74517513	Stay (B)	825629a	1	1	
122	74535126	Cap screw	M12 x 40 (UNBRAKO)	4	4	
123	44028619	Spring washer	M12	4	4	
124	74517604 (74165310)	Washer	827014b	4	4	
125	74517505	Stay bracket (A)	825628a	2	2	
126	36321227	Cap screw	M16 x 40	8	8	

Unit No. 12

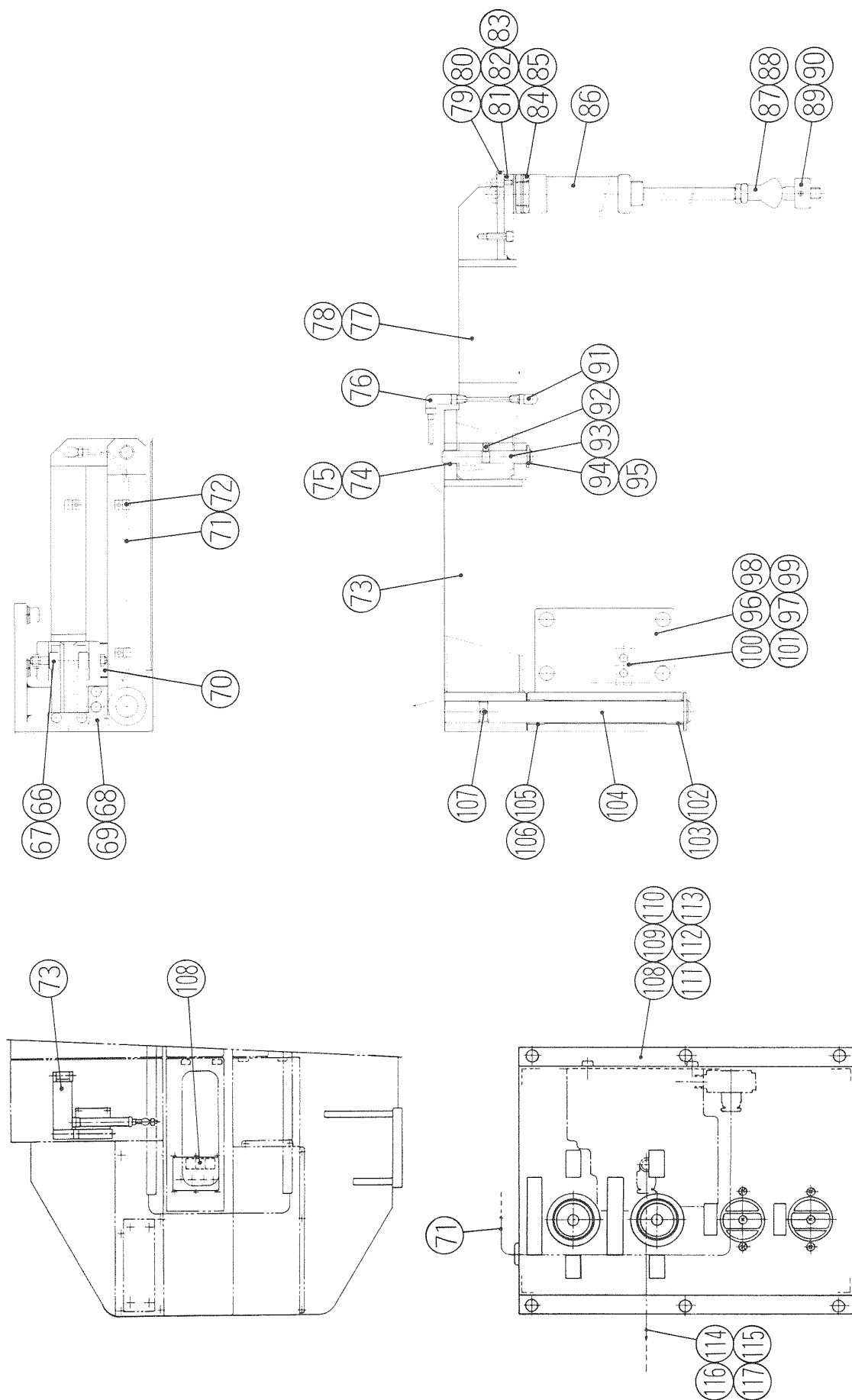
Y-axis

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 14
Tool balancer

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 14

Tool balancer

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
66	74310427	Cam follower	CF10UU-A	2	2	
67	74304423 (10001516)	Nut	M10	2	2	
68	74309534	Stopper	819233	1	—	
68	74309532	Stopper	6018248a	—	1	
69	74301627 (38020507)	Cap screw	M8 x 35	2	2	
70	74309533	Stopper	6018251	1	1	
71	74352703	Tube	UH30-06 3 m	1	1	
72	74310307 (44027304)	Single saddle	CH-6	2	2	
73	74309538	Arm (1)	819346b	1	—	
73	74309507	Arm (1)	6018241a	—	1	
74	74309717 (10319405)	DU bushing	MB1615DU	2	2	
75	74309718 (71136631)	DU washer	WC14DUN	1	1	
76	74310024	Long elbow	PLL1-6-1/4-BS	1	1	
77	74309539	Arm (2)	819369b	1	—	
77	74309511	Arm (2)	6018242a	—	1	
78	74310307 (44027304)	Single saddle	CH-6	2	2	
79	74309529	Stopper	6018252	1	1	
80	74310617	Stripper bolt	STO 8 x 10	2	2	
81	74309523	Roller guide	6018246	1	1	
82	74300607 (21415514)	Cap screw	M8 x 25	2	2	
83	74302812	Cap screw	M6 x 10	2	2	
84	74309605	Cylinder holder	6018247a	1	1	
85	74310528	Spring pin	Φ5 x 50	1	1	
86	74310603	Air cylinder	7932008a	1	1	a: Mar. '89 ~
87	74310605 (74165732)	Link ball	RB1W-14	1	1	
88	74300506	Nut	M14 type-3	1	1	
89	74309112	Knob	819298	1	1	
90	74310612	Set screw (knurl end)	M6 x 10 (UNBRAKO)	2	2	
91	74310025	Elbow	PLB1-6-1/4-BS	1	1	
92	74310611	Set screw (with ball)	M8 x 10	1	1	
93	74309514	Shaft (2)	6018245a	1	1	
94	74314206	Washer	M16	1	1	
95	74305213 (44343106)	Snap ring	STW-16	1	1	
96	74309505	Arm bracket	6018243	1	1	
97	74304917	Cap screw	M12 x 40	4	4	
98	74301615 (44028619)	Spring washer	M12	4	4	
99	74303704 (44028618)	Washer	M12	4	4	
100	74309526	Catch	6018249a	1	1	
101	74300604	Cap screw	M6 x 15	2	2	
102	74300508 (10442714)	Washer	M30	1	1	

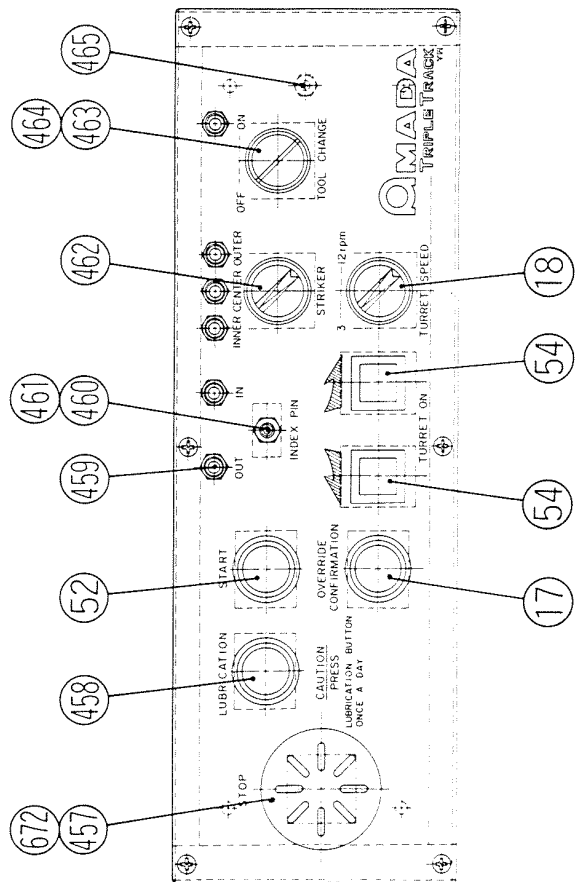
Unit No. 14

Tool balancer

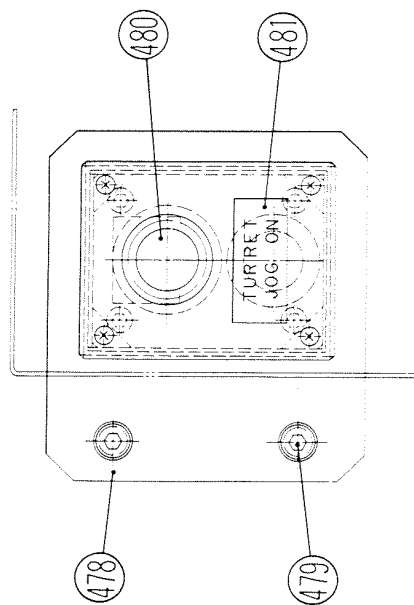
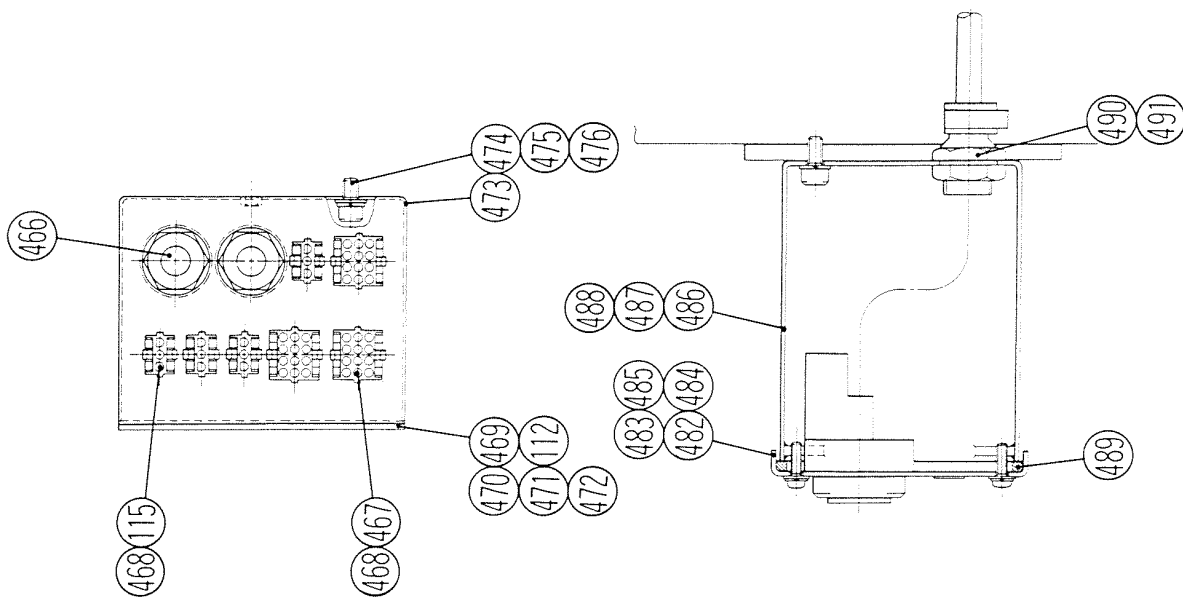
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

From serial No. C67679 (506072), C57982 (505072) and after.



Sub control box



Tool change door sub S.W.

Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

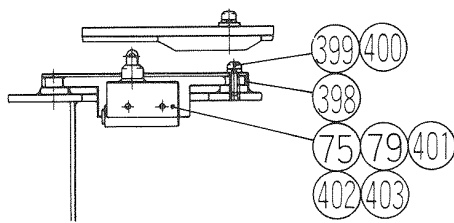
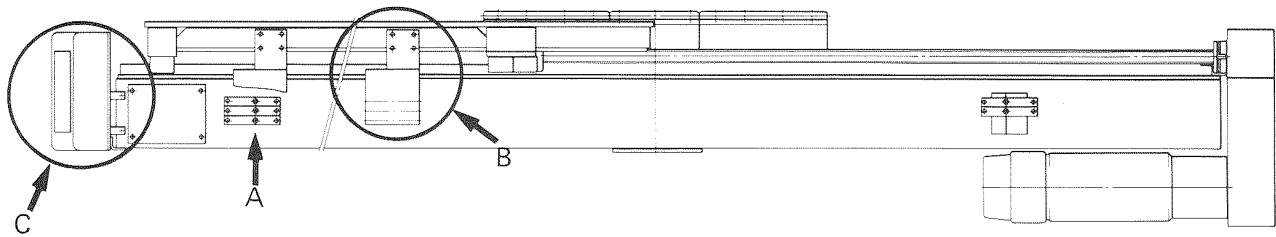
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
17	74518910	Push button switch	AH30-FY10	2	2	
18	74518915	Select switch	AH30-P2B10	1	1	
52	74518912	Push button switch	AH30-FG10	1	1	
54	74518913	Push button switch	AH25-SFG10	2	2	
112	74519031	Bind screw	M5 x 10	6	6	
115	74519008 (74306701)	Connector	1-480701-0 white 3P	4	4	
456	74307336	Sub control box ass'y	6018365	1	1	
457	74308609	Push button switch	RCa470-V1R1/0170	1	1	~ Apr. '89
458	74521219	Push button switch	AH30-FB10	1	1	
459	74308534 (74340952)	L.E.D.	BD1403A	6	6	
460	74308614	Toggle switch	AJ3114	1	1	
461	74308631	Rubber cap	AT-402	1	1	
462	74518917	Select switch	AH30-P3B11	1	1	
463	74518916	Select switch	AH30-J2A01A	1	1	out Europe
464	74308634 (43142234)	Blind cover	AHX004	1	1	in Europe
465	74308025	Ground bar	Ⓢ A51363	1	1	
466	74307815	Cable clamp	ABS-1616	2	2	
467	74306716	Connector	1-480709-0 white 12P	3	3	
468	74306811	Socket	350689-1	47	47	
469	74307318	Sub control panel	6018366	1	1	
470	74308164	Cable	KV 0.5 mm ² x 3 m blue	1	1	
471	74306823	Electro-tap	171425-1	7	7	
472	74308210	Closed-end connector	CE-100	5	5	
473	74307215	Sub control box	6018186b	1	1	
474	74302817 (73157630)	Cap screw	M8 x 15	4	4	
475	74300518 (10001521)	Spring washer	M8	4	4	
476	74300511 (44235242)	Washer	M8	4	4	
477	74307346	Tool change door sub S.W. ass'y	6018345	1	1	
478	74307405	Switch bracket	6018189	1	1	
479	74302817	Cap screw	M8 x 15	2	2	
480	74521219	Push button switch	AH30-FB10	1	1	
481	74307430	Sticker (Turret jog on)	6018346	1	1	
482	74307402	Cover	6018188	1	1	
483	74307626 (10364024)	Pan head machine screw	M4 x 14	4	4	
484	74300515	Spring washer	M4	4	4	
485	74300510	Washer	M4	4	4	
486	74307401	Switch box	6018187	1	1	
487	74302813	Cap screw	M6 x 12	4	4	
488	74300517	Spring washer	M6	4	4	
489	74520125	Neo-prene sponge	4 ¹ x 4 x 315 ^L	1	1	

Unit No. 15

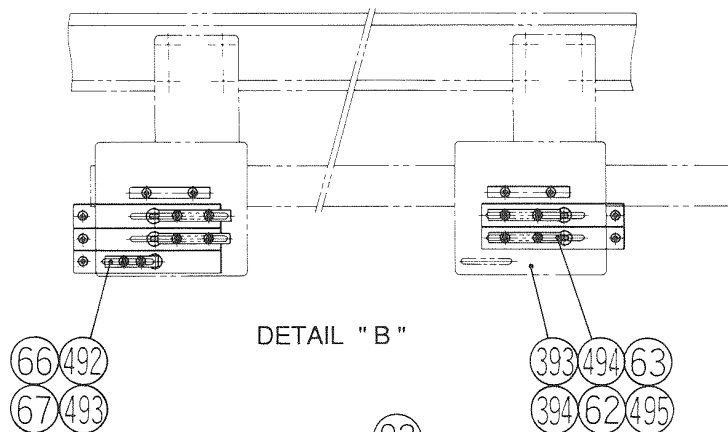
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

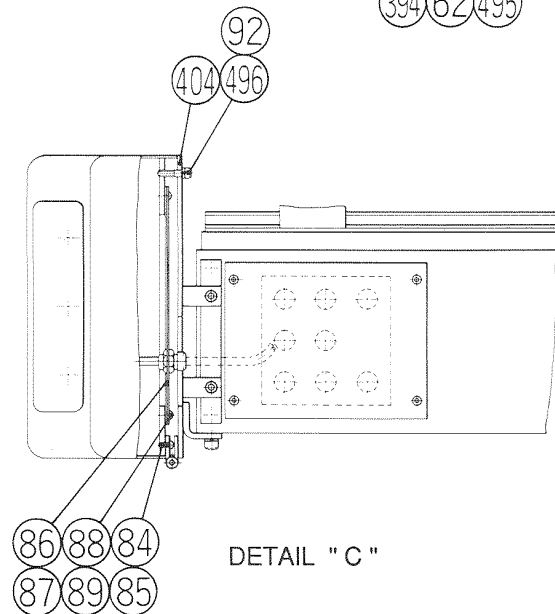
[illegible]



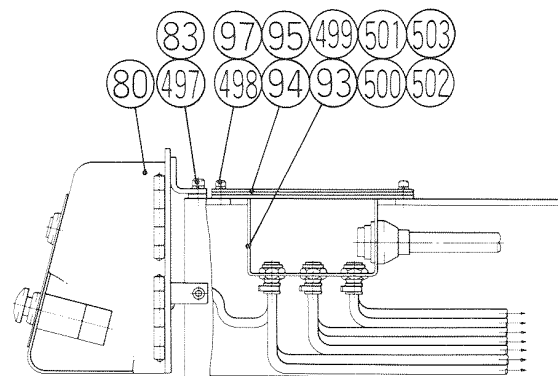
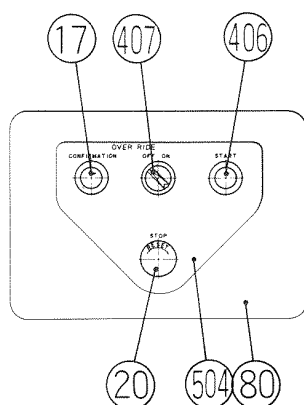
ARROW "A"



DETAIL "B"



DETAIL "C"



Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
20	74518909	Push button switch	AH30-VR01	1	1	
62	44027928	Spring washer	M6	8	8	
63	44027930	Washer	M6	8	8	
66	44027928	Spring washer	M6	2	2	
67	44027930	Washer	M6	2	2	
75	74518903	Limit switch	ZC-Q2255	5	5	
79	74300501	Nut	M4	4	4	
80	74518710	Control box	828671a	1	1	
83	10001521	Spring washer	M8	3	3	
84	74535018	Truss head socket screw	M6 x 10	6	6	
85	44027928	Spring washer	M6	6	6	
86	74518711	Cover	828673a	1	1	
87	74518712	Dust packing (C.C)	828676	1	1	
88	10325312	Pan head machine screw	M6 x 10	8	8	
89	74535214	Toothed lock washer	M6	8	8	
92	44027928	Spring washer	M6	2	2	
93	74518718	Junction box (Carriage)	828950	1	1	
94	74518719	Junction box cover	828951a	1	1	
95	74518720	Dust packing (C, B)	828952	1	1	
97	44027928	Spring washer	M6	4	4	
393	74518703	X-axis dog bracket	824704d	2	2	
394	44235241	Cap screw	M8 x 20	8	8	
398	74518726	L.S. setting plate	818628c	5	5	
399	74302815	Cap screw	M6 x 20	10	10	
400	44027928	Spring washer	M6	10	10	
401	74534906	Round head machine screw	M4 x 90	2	2	
402	74534905	Round head machine screw	M4 x 65	2	2	
403	44027327	Spring washer	M4	4	4	
404	74518727	Mounting plate	828895a	1	1	
406	74518908	Push button switch	AH30-G1G10	1	1	
407	74518914	Select switch	AH30-P2B01	1	1	
492	74306908	Dog (B)	808516a	1	1	
493	74302815	Cap screw	M6 x 20	2	2	
494	74306906	Dog (OT)	818707a	4	4	
495	74302815	Cap screw	M6 x 20	8	8	
496	75168508	Cap screw	M6 x 25	2	2	
497	21415514	Cap screw	M8 x 25	4	4	
498	74300604	Cap screw	M6 x 15	4	4	
499	74306942	Ground bar	Ⓢ A51397	1	1	
500	74308126 (36004615)	Code lock	NC-1	8	8	

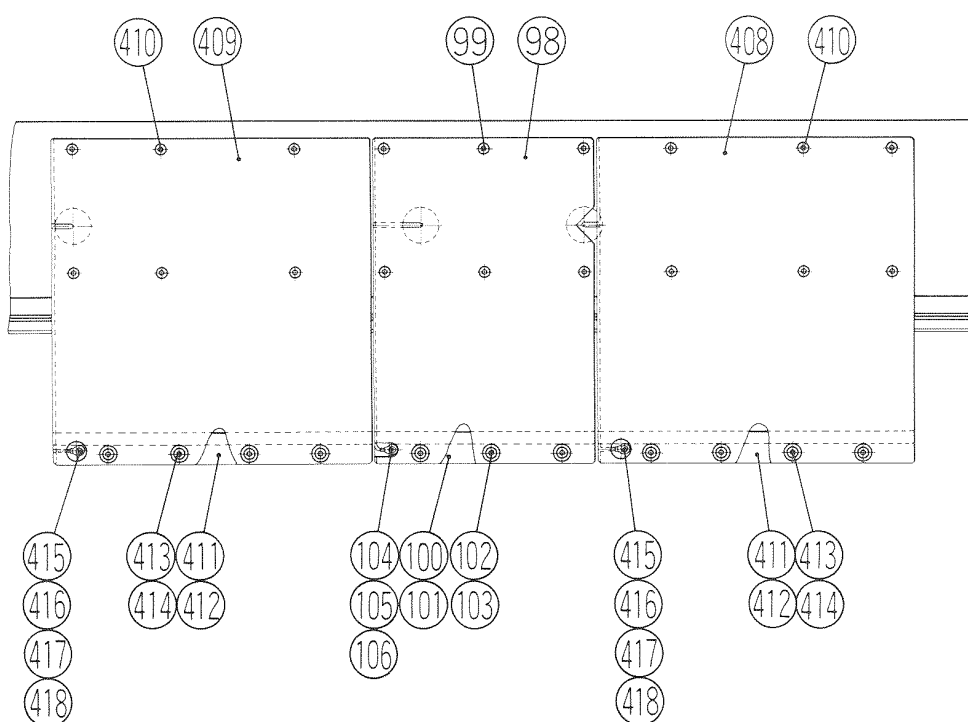
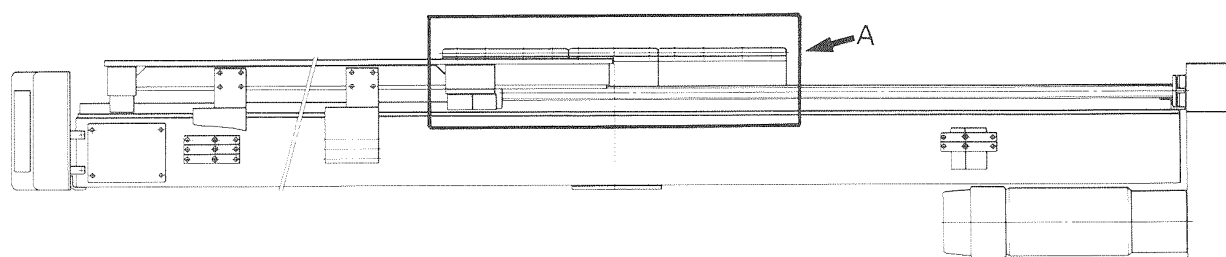
Unit No.
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 15
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

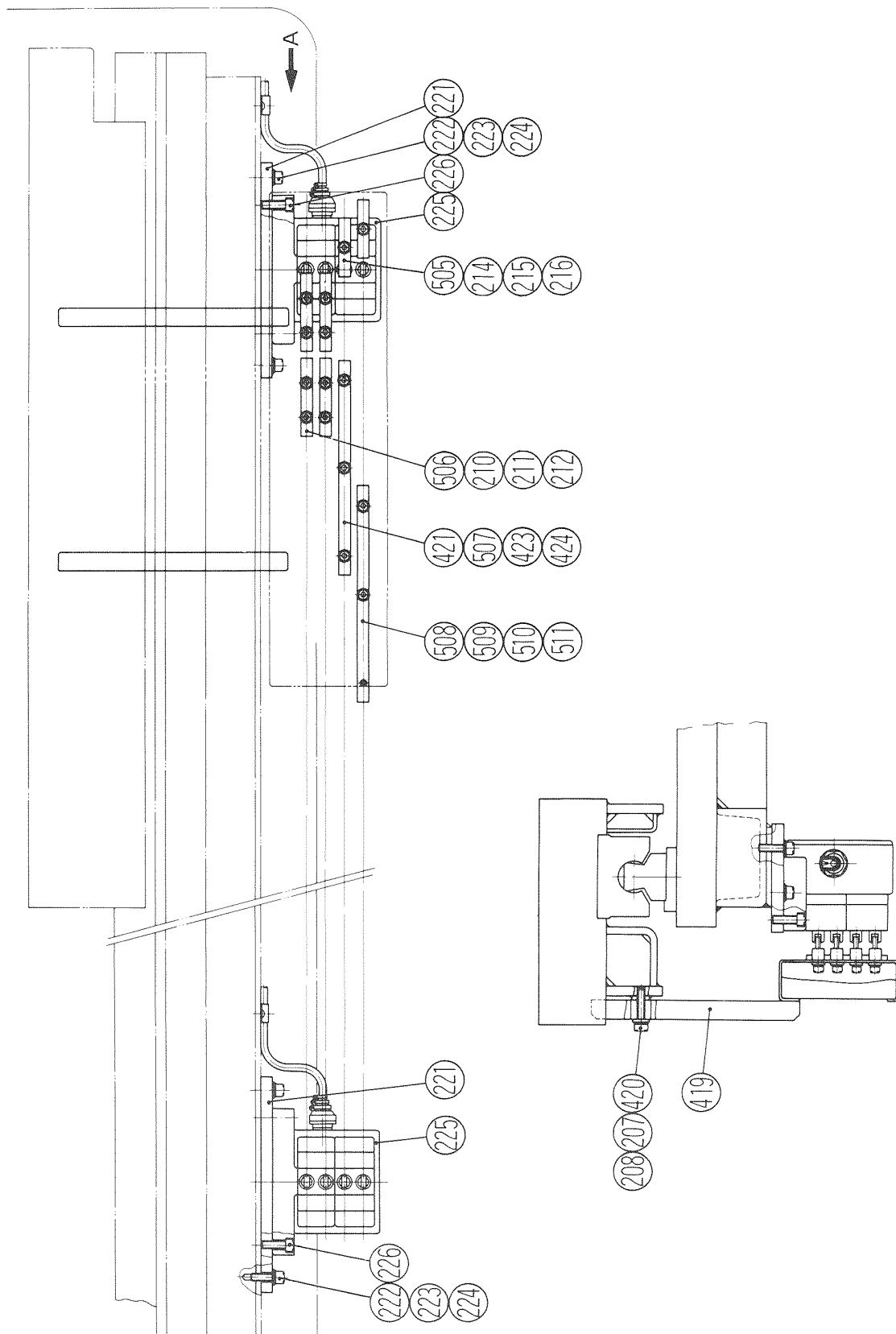


DETAIL "A "

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

-81-



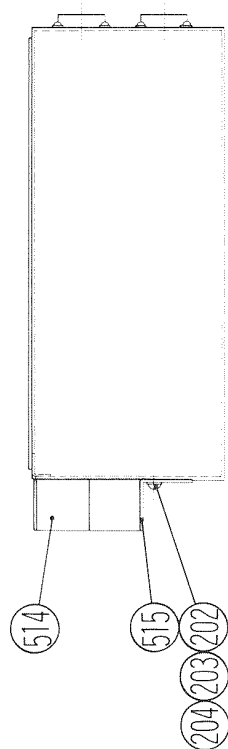
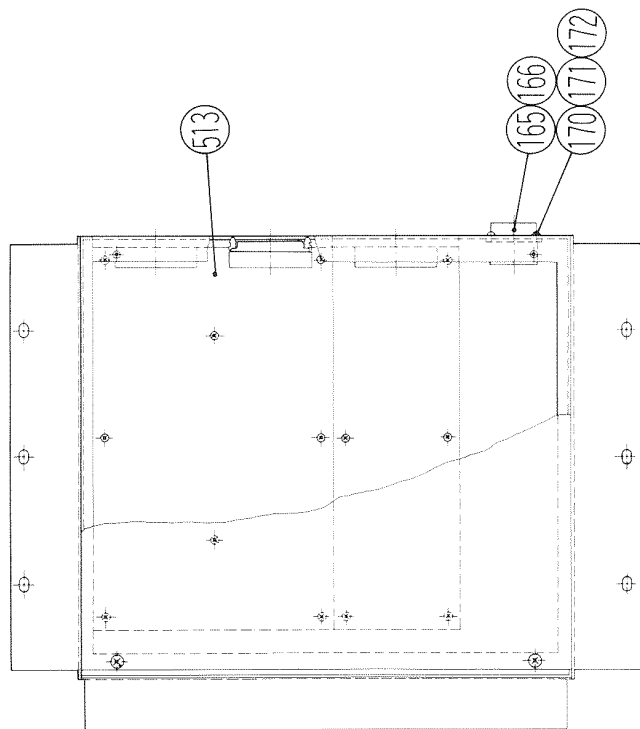
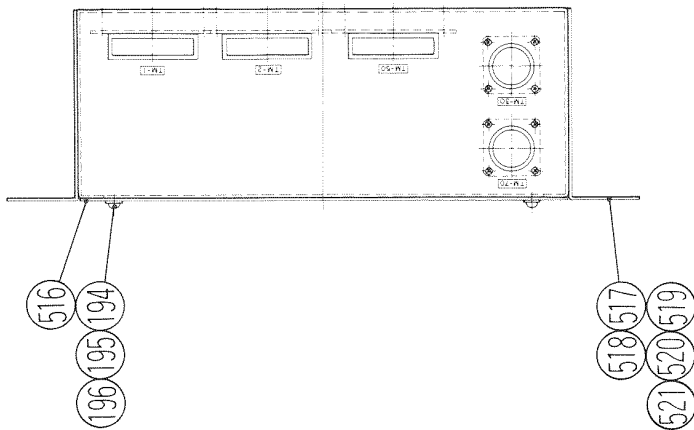
Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

From serial No. C67679 (506072), C57982 (505072) and after.



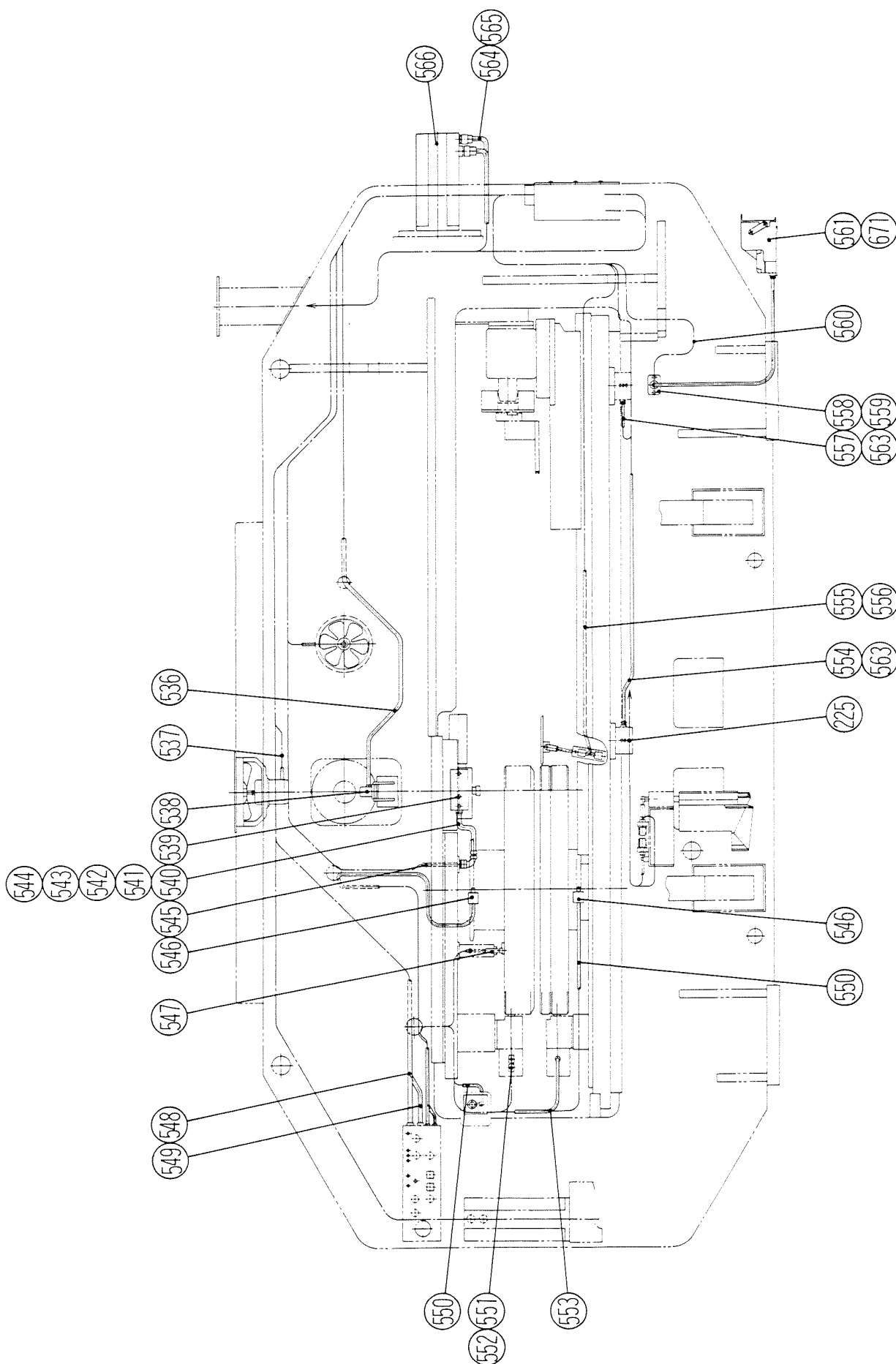
Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
165	74306805	Receptacle	206151-1	2	2	
166	74306825	Pin	66099-2	43	43	
170	74307620	Pan head machine screw	M3 x 10	8	8	
171	74307612	Spring washer	M3	8	8	
172	74307605	Washer	M3	8	8	
194	74305017	Pan head machine screw	M5 x 10	4	4	
195	44552819	Washer	M5	4	4	
196	44027927	Spring washer	M5	4	4	
202	74305017	Pan head machine screw	M5 x 10	3	3	
203	44552819	Washer	M5	3	3	
204	44027927	Spring washer	M5	3	3	
512	74306915	T-junction box ass'y	6018190	1	1	
513	74308563	P.C.B.	(S) AD0686	1	1	
514	74306824	Sponge rubber	40 x 40 x 382	2	2	
515	74306934	Cable clamp	6018190-03	1	1	
516	74306923	Cover	6018190-02	1	1	
517	74306917	T-junction box	6018190-01	1	1	
518	74306941	Ground bar	(S) A51396	1	1	
519	74300624	Button head socket screw	M6 x 15	6	6	
520	74300517	Spring washer	M6	6	6	
521	74302328	Washer	M6	6	6	
		« inner wiring »				
522	74306701	Connector cap (T17~21, T24, T26)	1-480701-0 3P	7	7	
523	74306717	Connector plug (01, 02)	1-480702-0 4P	2	2	
524	74306709	Connector cap (T-22, 23, 25, CR1-3)	1-480705-0 6P	4	4	
525	74306712	Connector cap (T-16)	1-480707-0 9P	1	1	
526	74306716	Connector cap (S-2)	1-480709-0 12P	1	1	
527	74306812	Socket	350550-1	60	60	
528	74306823	Electro-tap	171425-1	28	28	
529	74308159	Cable	KIV 0.75 mm ² x 10 m red	1	1	
530	74308158	Cable	KIV 0.75 mm ² x 10 m blue	1	1	
531	74308161	Cable	KIV 0.75 mm ² x 10 m Y/G	1	1	
532	74307212	Cable (Ground)	IV 5.5 mm ² x 0.3 m Y/G	1	1	inner wiring
533	74300604	Cap screw	M6 x 15	1	1	inner wiring
534	74300516	Spring washer	M6	1	1	inner wiring
535	74307606	Washer	M6	1	1	inner wiring

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 15

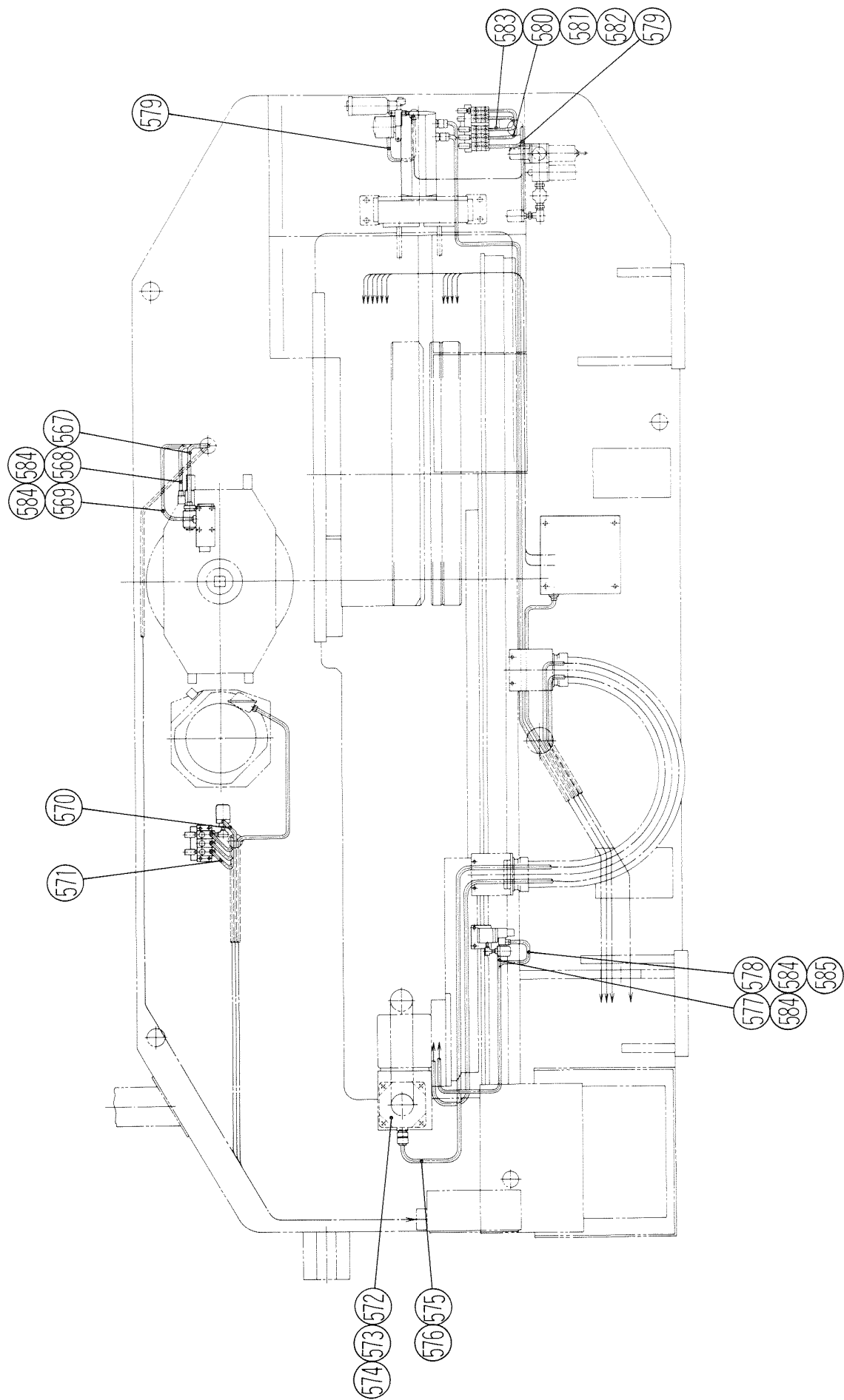
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 15
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

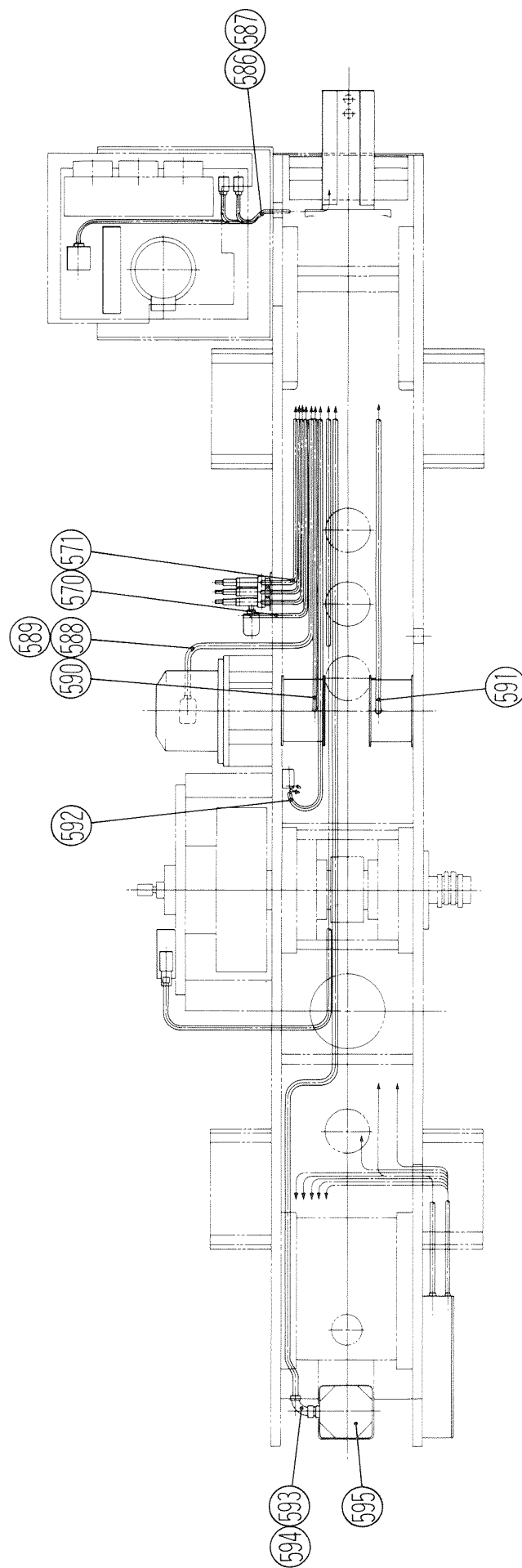


Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

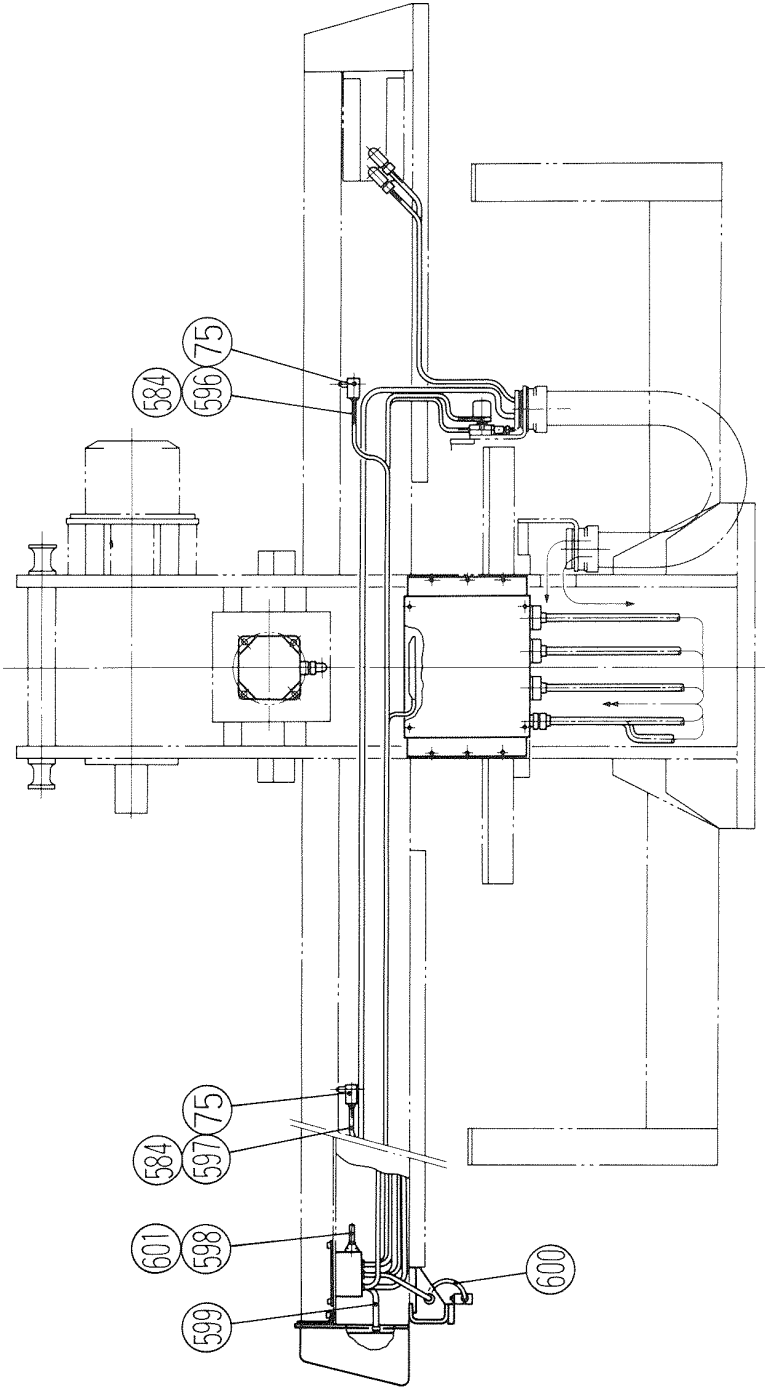
[illegible]



Unit No. 15
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

From serial No. C67679 (506072), C57982 (505072) and after.

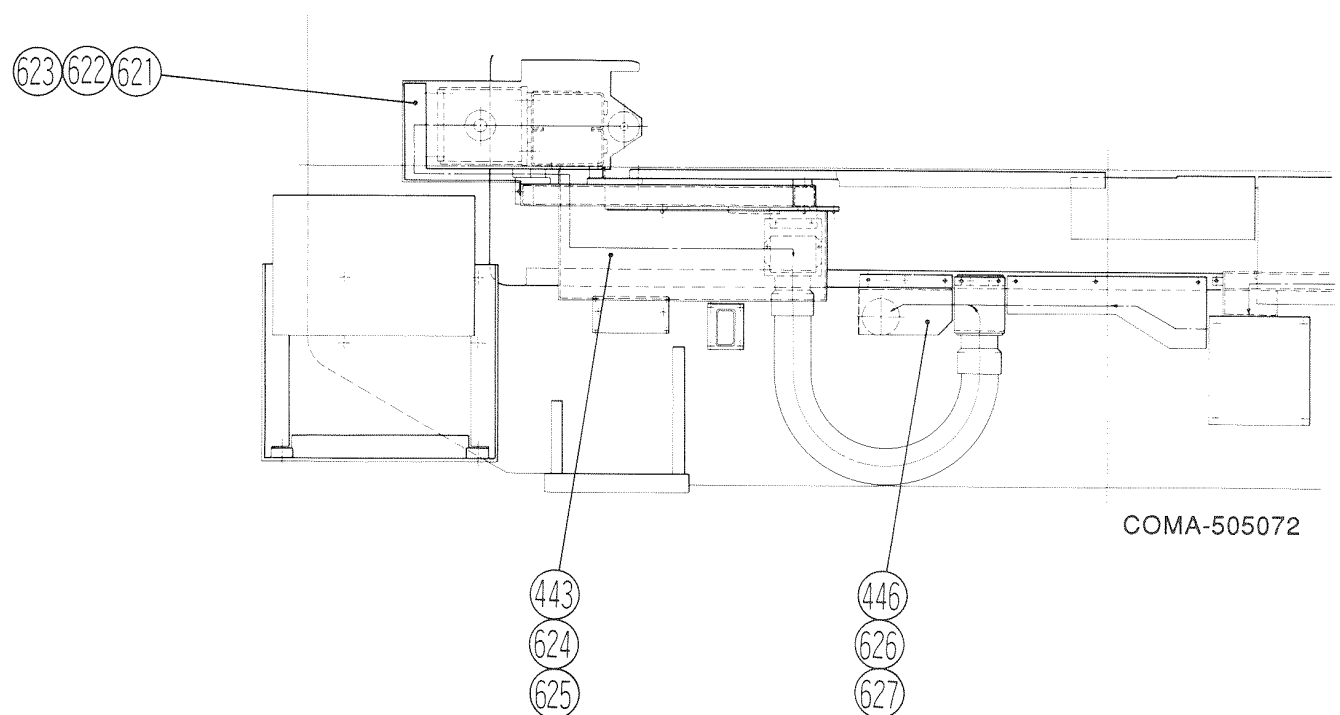
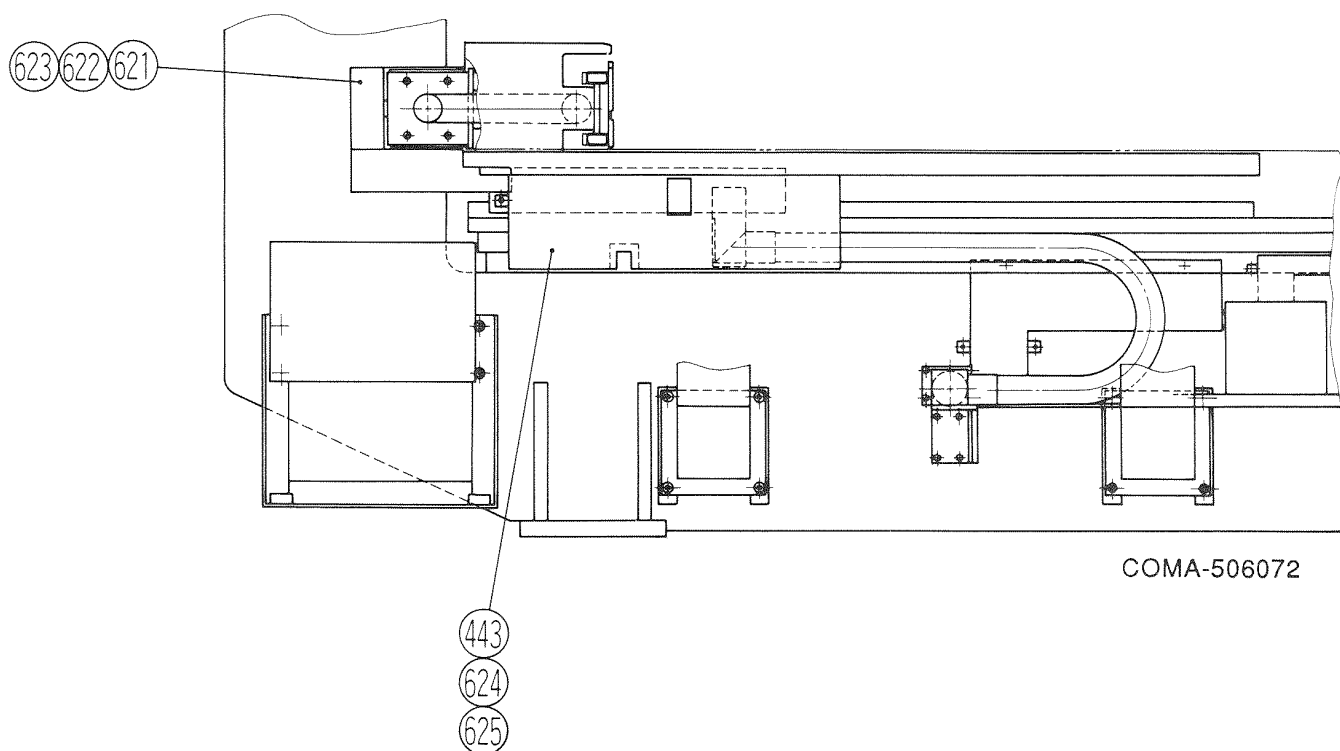


Unit No.
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

Unit No. 15
Electric (I)

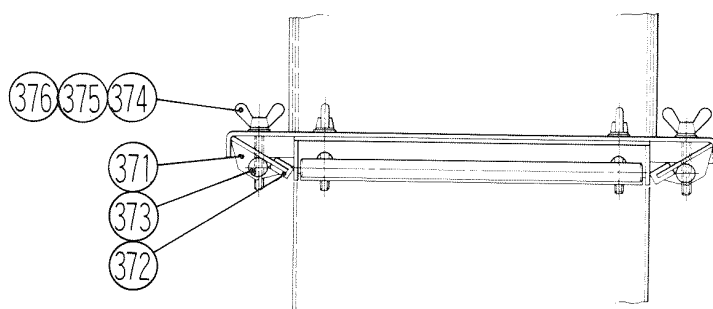
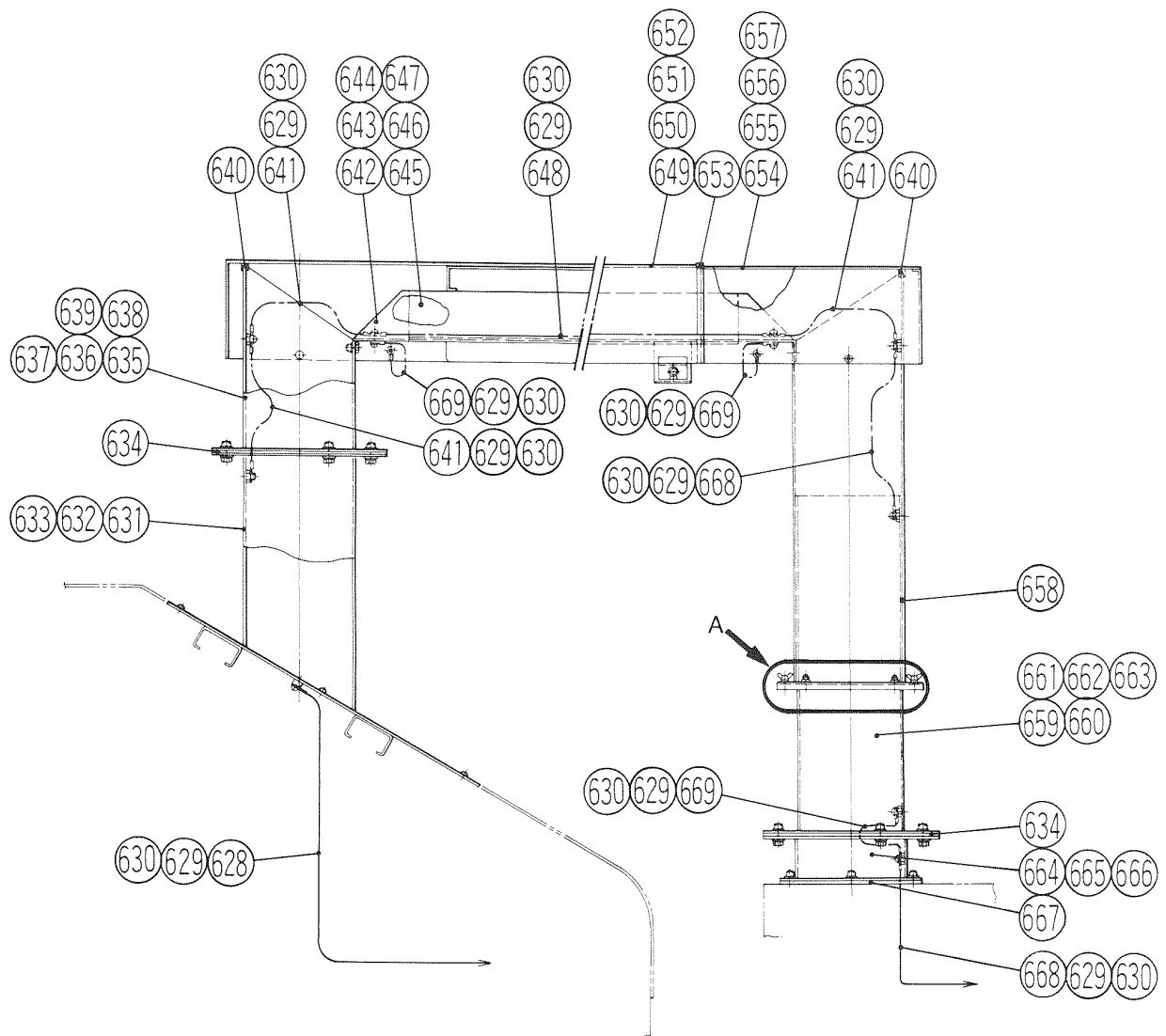
From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 15

Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.



DETAIL " A "

Unit No. 15

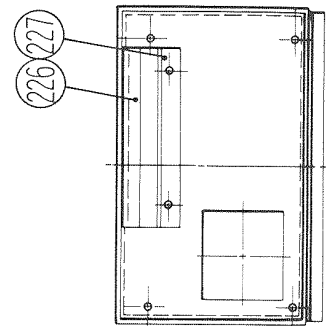
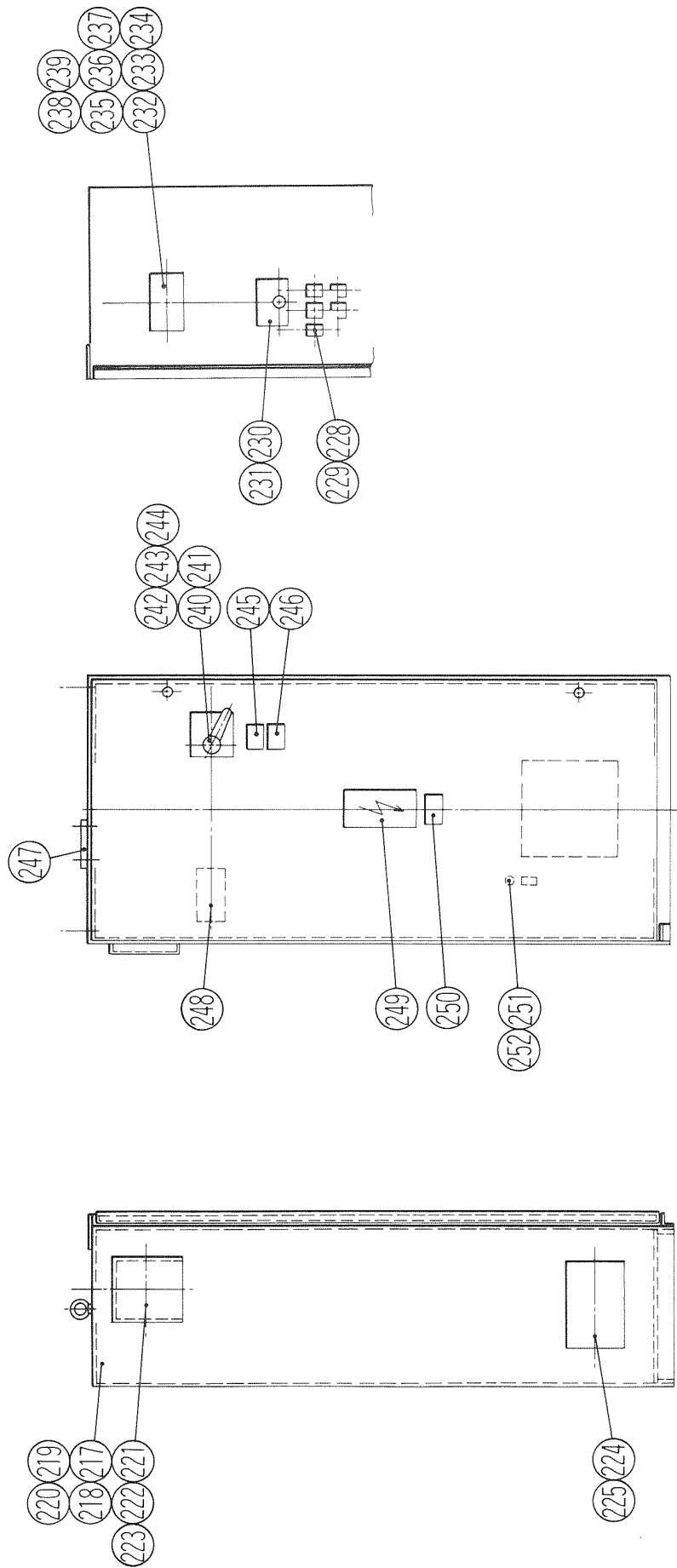
Electric (I)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
371	74307508	Stopper	828833	4	4	
372	74306819	Rubber packing	383322a 140 L	4	4	
373	74307513	Push rod	828838	4	4	
374	74307629	Wing bolt	M4 x 25	8	8	
375	74300515 (44027327)	Spring washer	M4	8	8	
376	74300510	Washer	M4	8	8	
628	74307328	Cable (D)	6018360	1	1	
629	74300709 (44027732)	Pan head machine screw	M6 x 12	20	20	
630	74307609	Toothed lock washer	AZ-6	20	20	
631	74520208	Tilting duct	6018776a	1	1	
632	74304816 (10557229)	Button head socket screw	M6 x 10	6	6	
633	74300527	Toothed lock washer	M6	6	6	
634	74307417	Direction packing	828698a	2	2	
635	74307517	Vertical duct	6018356b	1	1	
636	74300607 (21415514)	Cap screw	M8 x 25	4	4	
637	74300511	Washer	M8	8	8	
638	74300518 (10001521)	Spring washer	M8	4	4	
639	74300504 (10001517)	Nut	M8	4	4	
640	74306820	Rubber packing	383322a 145 L	2	2	
641	74307325	Cable (A)	828724	3	3	
642	74307022	H.O. duct	6018354a	1	1	a: Nov. '88 ~
643	74300604	Cap screw	M6 x 15	1	1	
644	74300517 (44027928)	Spring washer	M6	1	1	
645	74307002	H.I. duct	6018355	1	1	
646	74300604	Cap screw	M6 x 15	1	1	
647	74300517 (44027928)	Spring washer	M6	1	1	
648	74307329	Cable (E)	6018361	1	1	
649	74307019	Duct cover (O)	6018358b	1	1	
650	74300604	Cap screw	M6 x 15	4	4	
651	74300517 (44027928)	Spring washer	M6	4	4	
652	74302328 (44027930)	Washer	M6	4	4	
653	74306821	Rubber packing	383322 415 L	1	1	
654	74307018	Duct cover (I)	6018357a	1	1	
655	74300604	Cap screw	M6 x 15	2	2	
656	74300517 (44027928)	Spring washer	M6	2	2	
657	74302328 (44027930)	Washer	M6	2	2	
658	74307501	Outer telescope	6018353a	1	1	
659	74307504	Inner telescope	6018352	1	1	
660	74300607 (21415514)	Cap screw	M8 x 25	4	4	
661	74300511	Washer	M8	8	8	

Unit No. 16
Electric (II)

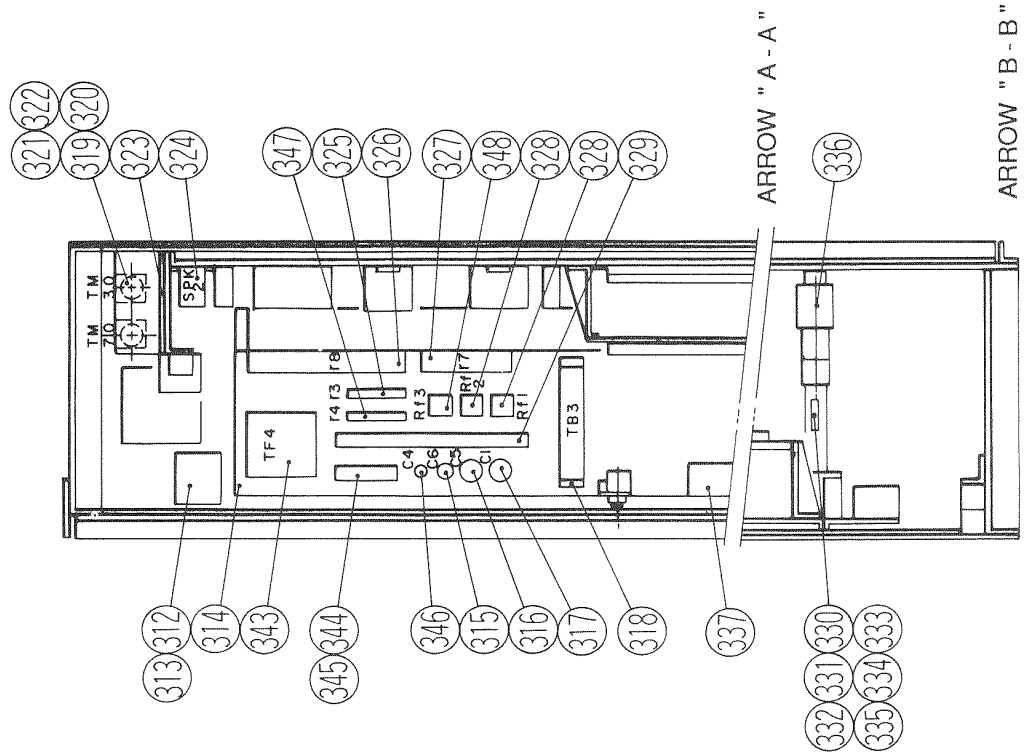
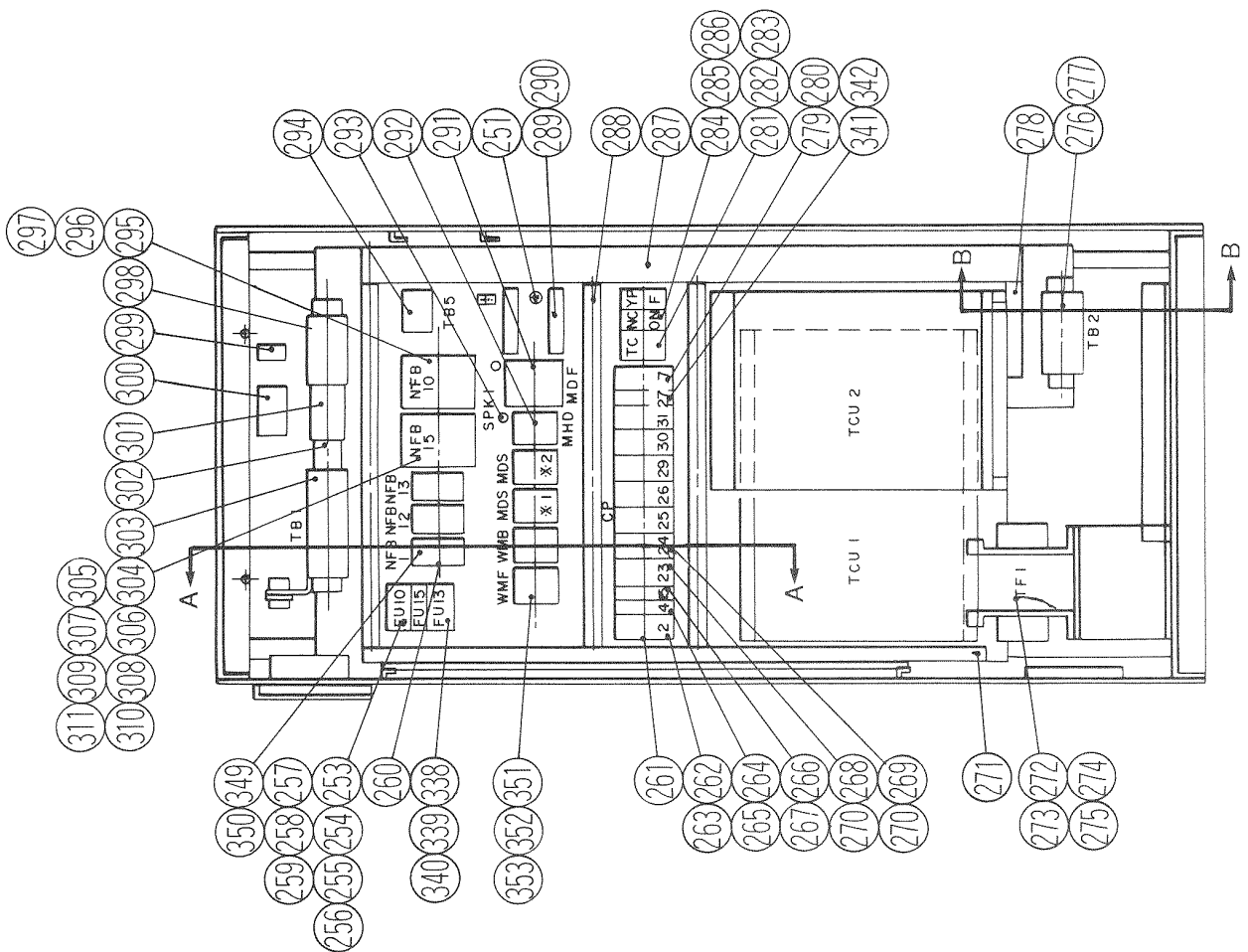
From serial No. C67679 (506072), C57982 (505072) and after.



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
217	74308006	Electrical box	(S) A30858	1	1	
218	74308007	Door	(S) A42738	1	1	
219	74308008	Hinge	(S) A42175	1	1	
220	74308004	Common base	(S) A42630	1	1	
221	74308102	Fan	φ125 x R01	1	1	
222	74308103	Finger guard	9601-43	2	2	
223	74308225	Plug cable	T-40-3	1	1	
224	74308106	Filter	HR-13	1	1	
225	74308018	Filter clamp	(S) A51003	1	1	
226	74306824	Neo-prene sponge	40 x 40 x 400	2	2	
227	74308017	Cable clamp	(S) A42718	1	1	
228	74308509	Key switch (SS5)	AH22-J2B01A	1	1	in Europe
229	74307763	Sticker	(S) A51276	1	1	in Europe
230	74308514	Key switch	USLW2K-222S-A	1	1	H-clamp
231	74307765	Sticker	(S) A-42633	1	1	H-clamp
232	74308533 (74340951)	L.E.D.	BD1401R	1	1	
233	74308530	L.E.D.	BD1402G	1	1	
234	74308534 (74340952)	L.E.D.	BD1403A	2	2	
235	74308505	Key switch (SS27, 28)	TL-109 #1279	2	2	
236	74308608 (71141810)	Push button switch (PB14)	AH164-TLR11E3	1	1	
237	74308526	Pilot lamp	KPE-216F-402	1	1	
238	74308504 (71141832)	Protection cover	AHX669	1	1	
239	74307760	Control panel	(S) A42631	1	1	
240	74308338	Circuit breaker (NFB)	Bu-ESB3060L1	1	1	
241	74307807	Lever	Bu-GGD	1	1	
242	74307809	Terminal cover	Bu-CFH	1	1	
243	74307808	Clip	H-1	1	1	
244	74308024	Breaker base	(S) A42739	1	1	
245	74307750 (74326502)	Sticker (protection)	ASK-1000B	1	1	
246	74307755	Sticker (caution)	ASK-1005B	1	1	
247	74308023	Blind plate	(S) A51366	1	1	
248	74307745	Sticker (fuse)	(S) A51459	1	1	
249	74307749 (74326501)	Sticker (L ⚡)	ASK-1000A	1	1	
250	74307751 (78185224)	Sticker (voltage)	ASK-1000C	1	1	
251	74307752 (78185228)	Sticker (ground)	ASK-1001F	6	6	
252	74307753 (78185227)	Sticker (ground)	ASK-1001G	1	1	

Unit No. 16
Electric (II)

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 16

Electric (II)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
253	74308569	Fuse (Fu10/230V)	ATM-15	2	2	
254	74308570	Fuse (Fu10/400, 460V)	ATM-8	2	2	
255	74308521	Fuse (Fu15)	ATM-3	1	1	
256	74308516	Fuse holder	#30323	1	1	
257	74308518	Fuse holder	#30322	1	1	in U.S.
258	74308573	Fuse (Fu16A, B/230V)	ATM-20	2	2	in U.S.
259	74308574	Fuse (Fu16A, B/460V)	ATM-10	2	2	in U.S.
260	74307832	Rale	TH35-7.5 325 L	1	1	
261	74307833	Rale	TH35-7.5 535 L	1	1	
262	74308544	Circuit protector (CP2)	CP32E/7.5	1	1	
263	74306834 (74342816)	Socket	CP-S2	1	1	
264	74308545	Circuit protector (CP4)	CP31E/7.5DDC DC24V	1	1	
265	74306833 (74342815)	Socket	CP-S1	1	1	
266	74308543	Circuit protector (CP15)	CP31E/5WDDC DC60V	1	1	
267	74306829 (74342818)	Socket	CP-S1A	1	1	
268	74308539	Circuit protector (CP23)	CP32E/0.25W	1	1	
269	74308541	Circuit protector (CP24~26) CP29~31	CP32E/1W	6	6	
270	74306830 (74342817)	Socket	CP-S2C	7	7	
271	74308352	Duct	25 x 60 x 1000	1	1	
272	74308332	Transformer (TF1)	0TA-8129 1 ϕ 959VA	1	1	
			200-230-350V / 100V 7A 200-230V / 115V 5A 18-20-22V 5A			
273	74308014	Transforme base	Ⓢ A42715	1	1	
274	74308333	Transformer (TF1)	0TA-8196 1 ϕ 1534VA	1	1	in U.S.
			230Vx2 / 100V 7A 115V 5A 53V 3A 18-20-22V 5A			
275	74308015	Transformer base	Ⓢ A42854	1	1	in U.S.
276	74308147	Terminal block (TB2)	BNDH15/13P	1	1	
277	74308012	Terminal block base	Ⓢ A42713	1	1	
278	74308353	Duct	25 x 60 x 150	1	1	
279	74308547	Circuit protector (CP16)	CP32E/7	1	1	in U.S.
280	74306834 (74342816)	Socket	CP-S2	1	1	in U.S.
281	74308425	Thermo controller (TC)	PYEAHA11-Y (Pt 100 Ω) 0~50°C	1	1	
282	74306831	Socket	TP28X-UL	1	1	
283	74307816	Clip	FX-4	1	1	
284	74308418 (74164022)	Control relay (NCON)	HH62P-UL DC24V	1	1	
285	74306817	Socket	TP68X-UL	1	1	
286	74308422 (74163623)	Diode	SIB01-02	1	1	
287	74520006	Duct	60 x 100 x 1000	1	1	
288	74308354	Duct	25 x 60 x 555	3	3	

Unit No. 16

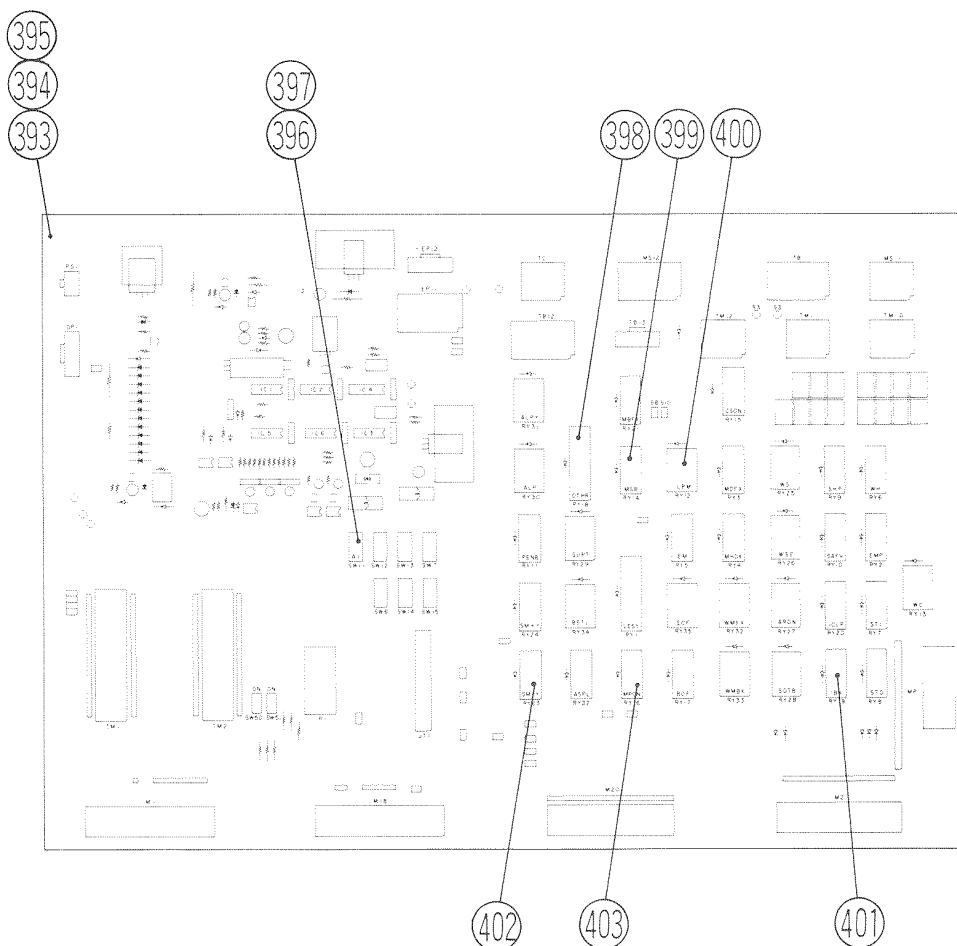
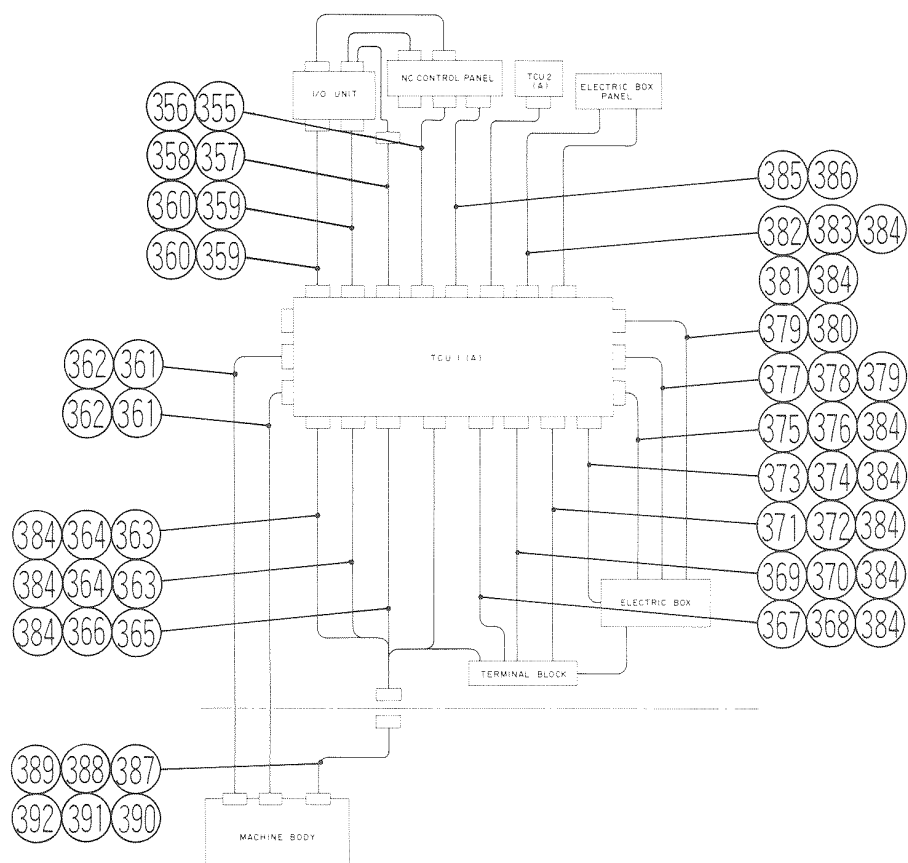
Electric (II)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
289	74308025	Ground bar (1)	(S) A51363	1	1	
290	74308026	Ground bar	(S) A51364	1	1	
291	74308323	Magnet contactor (MDF)	SC-1N/UL 2a2b 100V	1	1	
292	74308324	Magnet contactor (MHD)	SRCa3631-05/UL 1a1b 100V	1	1	
293	74308431	Spark killer (SPK1)	DCR2-50A22	2	2	
294	74308148	Terminal block (TB5)	AYBN043-1	1	1	
295	74308342	Motor breaker (NFB10/230V)	PKZM3-25/U+Hi11+C-NA 3P/25A	1	1	
296	74308343	Motor breaker (NFB10/400V)	PKZM3-16/U+Hi11+C-NA 3P/16A	1	1	
297	74308344	Motor breaker (NFB10/460V)	PKZM3-10/U+Hi11+C-NA 3P/10A	1	1	
298	74308129	Terminal block (TB1-4)	BN75/4P	1	1	
299	74307756	Sticker (S ⚡)	ASK-1001A	1	1	
300	74307757	Sticker (motor wiring)	ASK-1007A	1	1	
301	74308135	Terminal block (TB1-3)	BN30/7P	1	1	
302	74308133	Terminal block (TB1-2)	BN15L/4P	1	1	
303	74308146	Terminal block (TB1-1)	BNDH15/10P	1	1	
304	74308345	Motor breaker (NFB15/230V)	PKZM3-10/U+Hi11+C-NA 3P/10A	1	1	
305	74308346	Motor breaker (NFB15/400, 460V)	PKZM3-6.3/U+Hi11+C-NA 3P/6.3A	1	1	
306	74308175	Cable (H1)	KIV 2 mm ² x 14.1 m black	3	3	
307	74308176	Cable (H1)	KIV 2 mm ² x 14.1 m yellow/green	3	3	
308	74308159	Cable (H1)	KIV 0.75 mm ² x 14.1 m red	3	3	
309	74308219	PVC tube	10/16 x 13.7 m	1	1	
310	74307821	Band	CV-150	2	2	
311	74307820	SC lock	SCL-14B	1	1	
312	74307754 (78185225)	Sticker (Trans. wiring)	ASK-1001H	1	1	
313	74307764	Sticker (Trans. wiring)	(S) A51555	1	1	in U.S.
314	74308010	Sub panel	(S) A42711	1	1	
315	74308408	Condenser (C6)	47μF 250WV	1	1	
316	74308407	Condenser (C5)	4700μF 100WV	1	1	
317	74308409	Condenser (C1)	KM63/LGSN-6800B	1	1	
318	74308134	Terminal block (TB3)	BN15M/21P	1	1	
319	74308206	Receptacle (TM-30)	206306-1	1	1	
320	74306813	Socket (TM-30)	66101-2	37	37	
321	74308013	Connector plate	(S) A42714	1	1	
322	74308016	Connector sub plate	(S) A42902	1	1	
323	74308011	Terminal block base	(S) A42712	1	1	
324	74308433	Spark killer (SPK2)	RFM2H664KPD	2	2	
325	74308411 (74164203)	Resistor (r3)	RWH0S20-G-100Ω-J	1	1	
326	74308414	Resistor (r8)	RWH0S150-G-70Ω-J	1	1	
327	74308413	Resistor (r7)	RWH0S50-G-1kΩ-J	1	1	
328	74308404	Rectifier (RF1, 2)	DS10BNL	2	2	

Electric (II)

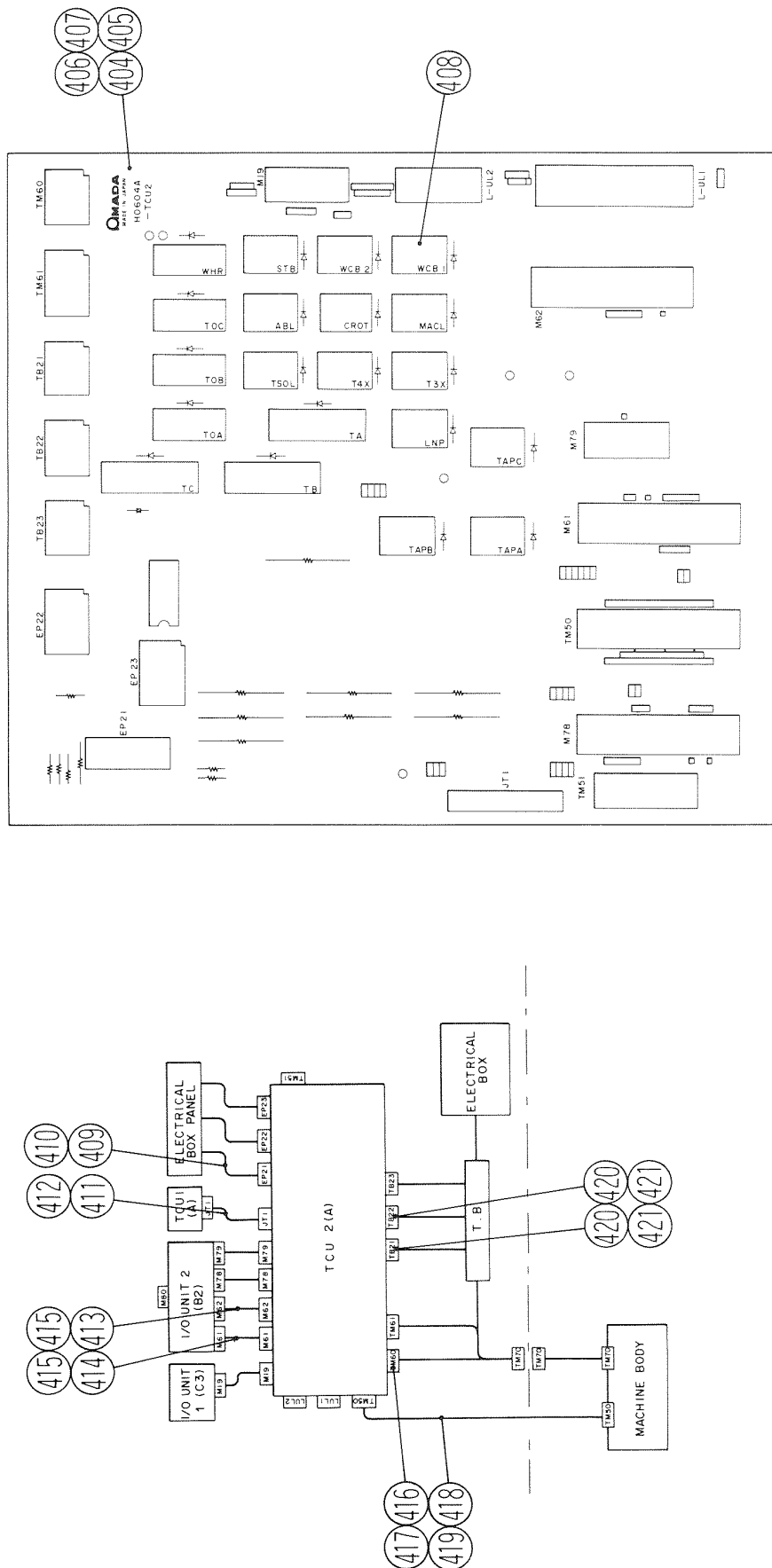
From serial No. C67679 (506072), C57982 (505072) and after.



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
355	74308157	Shield cable (M2)	0.2 mm ² x 50 ^c x 3.5 m black	1	1	
356	74306733	Connector	MRP-50LFH	2	2	
357	74308157	Shield cable (M1)	0.2 mm ² x 50 ^c x 1.7 m black	1	1	
358	74306733	Connector	MRP-50LFH	2	2	
359	74308157	Shield cable (M18, 20)	0.2 mm ² x 50 ^c x 2.3 m black	2	2	
360	74306733	Connector	MRP-50LFH	4	4	
361	74308157	Shield cable (TM1, 2)	0.2 mm ² x 50 ^c x 13 m black	2	2	
362	74306733	Connector	MRP-50LFH	4	4	
363	74308162	Cable (TM10, 11)	KV 0.75 mm ² x 1.1 m red	16	16	
364	74306730	Connector	1-480283-0 8P	2	2	
365	74308158	Cable (TM12)	KIV 0.75 mm ² x 1.1 m blue	8	8	
366	74306730	Connector	1-480283-0 8P	1	1	
367	74308163	Cable (TB11)	KV 0.5 mm ² x 1.1 m red	12	12	
368	74306731	Connector	1-480287-0 12P	1	1	
369	74308166	Cable (TB12)	KIV 0.5 mm ² x 1.1 m blue	12	12	
370	74306731	Connector	1-480287-0 12P	1	1	
371	74308166	Cable (TB13)	KIV 0.5 mm ² x 1.1 m blue	4	4	
372	74306729	Connector	1-480722-0 4P	1	1	
373	74308166	Cable (PS1)	KIV 0.5 mm ² x 1.1 m blue	2	2	
374	74306728	Connector	1-480720-0 2P	1	1	
375	74308164	Cable (MS11)	KV 0.5 mm ² x 1.1 m blue	8	8	
376	74306730	Connector	1-480283-0 8P	1	1	
377	74308166	Cable (MS12)	KV 0.5 mm ² x 1.1 m blue	12	12	
378	74306731	Connector	1-480287-0 12P	1	1	
379	74308163	Cable (TC1)	KV 0.5 mm ² x 1.1 m red	2	2	
380	74308166	Cable (TC1)	KIV 0.5 mm ² x 1.1 m blue	6	6	
381	74306730	Connector	1-480283-0 8P	1	1	
382	74308166	Cable (EP11)	KIV 0.5 mm ² x 1.1 m blue	12	12	
383	74306731	Connector	1-480287-0 12P	1	1	
384	74306735	Socket	170148-1	94	94	
385	74308156	Shield cable (P1)	0.2 mm ² x 10 ^c x 3.5 m black	1	1	
386	74306734	Connector	MRP-20LFH	2	2	
387	74308171	Cable (TM30, 70E)	VCTF 0.75 mm ² x 37 ^c x 13 m black	2	2	
388	74306740	Connector	206150-1	2	2	
389	74306813	Socket	66101-2	74	74	
390	74306741	Connector	206305-1	2	2	
391	74306825	Pin	66099-2	74	74	
392	74521922	Cable clamp	206512-1	4	4	
393	74308566	P.C.B.	TCU1	1	1	
394	74308019	PCB base	Ⓢ A42282	1	1	

Unit No. 16
Electric (II)

From serial No. C67679 (506072), C57982 (505072) and after.



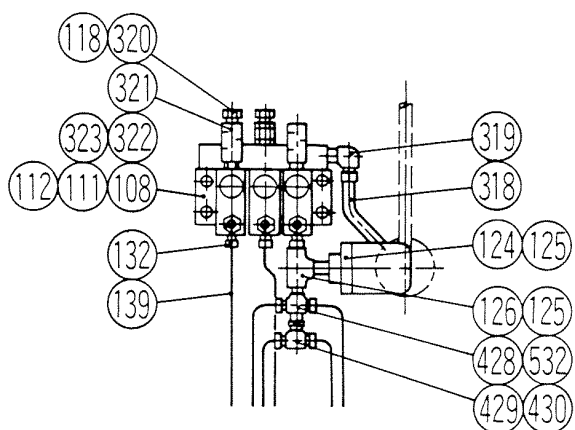
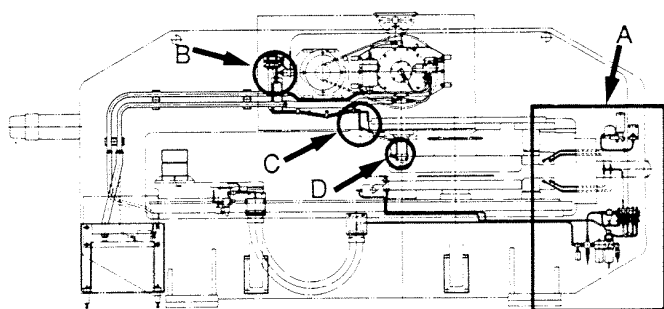
Unit No. 16

Electric (II)

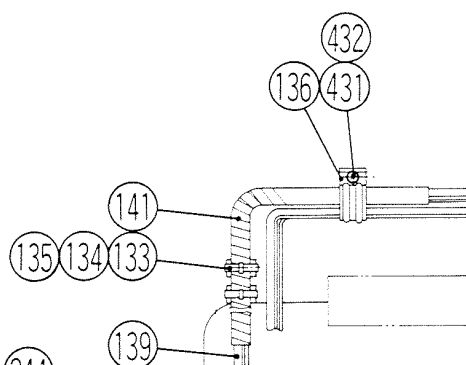
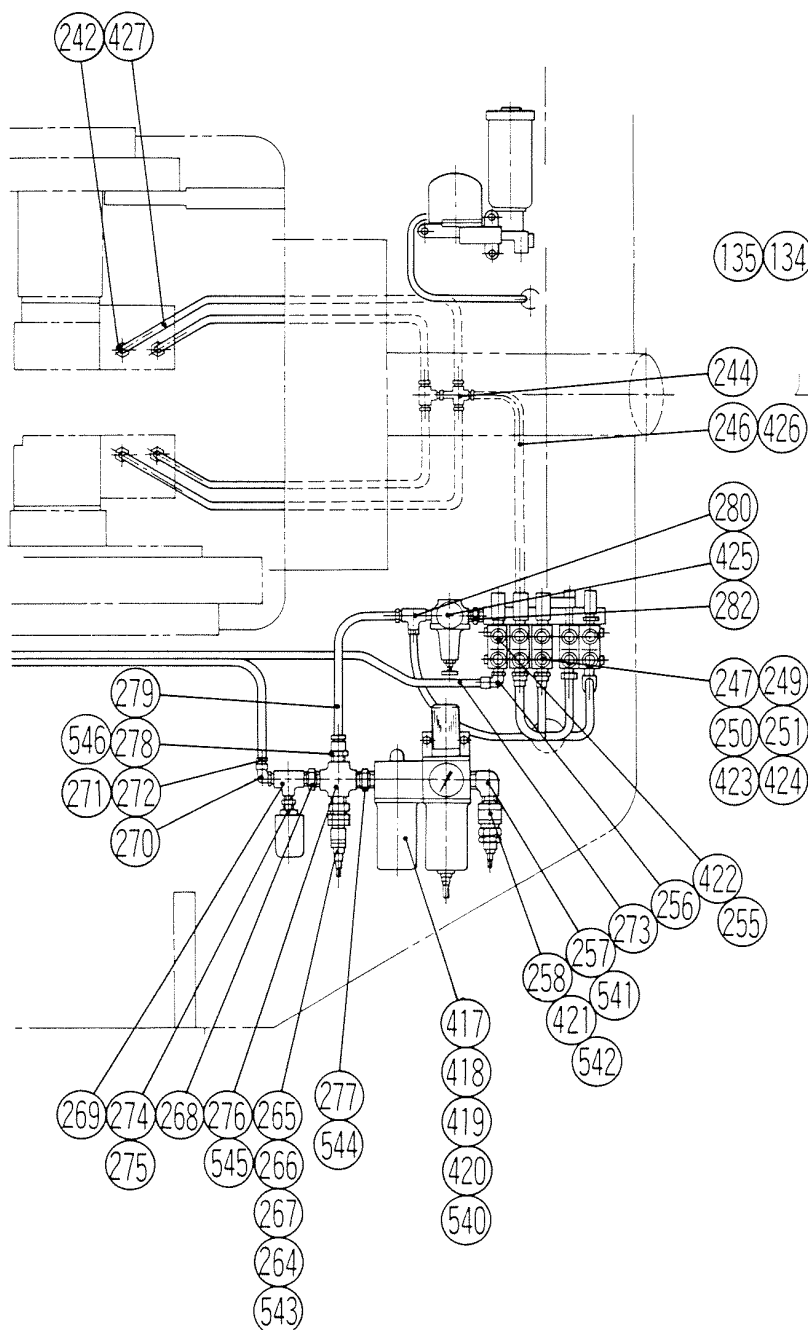
From serial No. C67679 (506072), C57982 (505072) and after.

Unit No. 17
Hydraulic and pneumatic piping

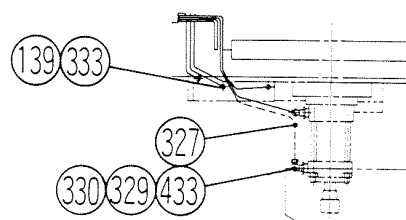
From serial No. C67679 (506072), C57982 (505072) and after.



DETAIL " B "



DETAIL " C "



DETAIL " D "

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
108	74522906	Solenoid valve	E108-035ER	1	1	
111	74523301 (29211732)	Plug	3/8"	1	1	
112	74523302 (29211730)	Plug	1/4"	1	1	
118	74522920	Exhaust throttle valve	ES-2	2	2	
124	74522729 (74309205)	Pressure switch	7931003	1	1	
125	74523419 (75169924)	Barrel nipple	1/4"	2	2	
126	74523328 (75169919)	Tee	1/4"	1	1	
132	74523014	Male connector	PC6-PT 1/4"	3	3	
133	74523218	Cradle	KR8-G5	2	2	
134	74523507	Convex	CV-175	2	2	
135	74510501	Pan head machine screw	M6 x 14	2	2	
136	74523516	Saddle	CH-19	3	3	
139	74523109	Tube	N5-4-6 x 4 L=4 m	1	1	
141	74523108	Coil tube	P-9 L=0.4 m	1	1	
242	74523012	Male connector	PC10-PT 1/4"	4	4	
244	74523022	Union tee	PUT-10	2	2	
246	74523104	Tube	N2-4-10 L=1.25 m	2	2	
247	74522925	Silencer	SA-8	2	2	
249	74523301 (29211732)	Plug	3/8"	1	1	
250	74522503	Solenoid valve base	6013812a	1	1	
251	21415514	Cap screw	M8 x 25	4	4	
255	74523202	Speed control muffler	SM102	2	2	
256	74523032	Elbow	PL6-PT 1/4"	2	2	
257	74523320 (58250920)	Male-female elbow	1/2"	1	1	~ C67733 ~ C57985
258	74523003	Plug	40 PM	1	1	~ C67733 ~ C57985
264	74523308	Nipple	1/2"	1	1	~ C67733 ~ C57985
265	74523004 (74162521)	Socket	20 SM	1	1	
266	74523002 (74162522)	Plug	20 PH	1	1	
267	74523401 (58251326)	Bushing	1/2" x 1/4"	1	1	~ C67733 ~ C57985
268	74523311	Nipple	1/2" x 1/4"	1	1	~ C67733 ~ C57985
269	74523328 (75169919)	Tee	1/4"	1	1	
270	74523031	Elbow	PL10-PT 1/4"	1	1	
271	74523012	Male connector	PC10-PT 1/4"	1	1	
272	74523105	Tube	N2-4-10 x 8 L=3.3 m	1	1	
273	74523103	Tube	N2-1-6 x 4 L=4 m	1	1	
274	74523309 (75169924)	Nipple	1/4"	1	1	
275	74522930	Pressure switch	SPS-8T	1	1	
276	74523333	Cross	1/2"	1	1	~ C67733 ~ C57985
277	74523308 (37118926)	Nipple	1/2"	1	1	~ C67733 ~ C57985
278	74523013	Male connector	PC10-PT 1/2"	1	1	~ C67733 ~ C57985

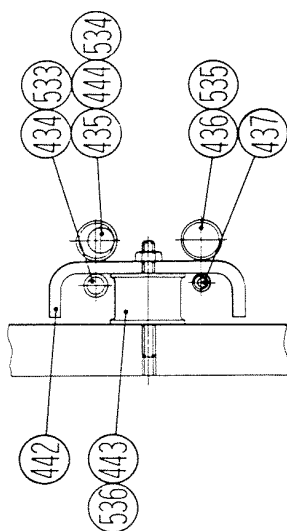
Unit No. 17

Hydraulic and pneumatic piping

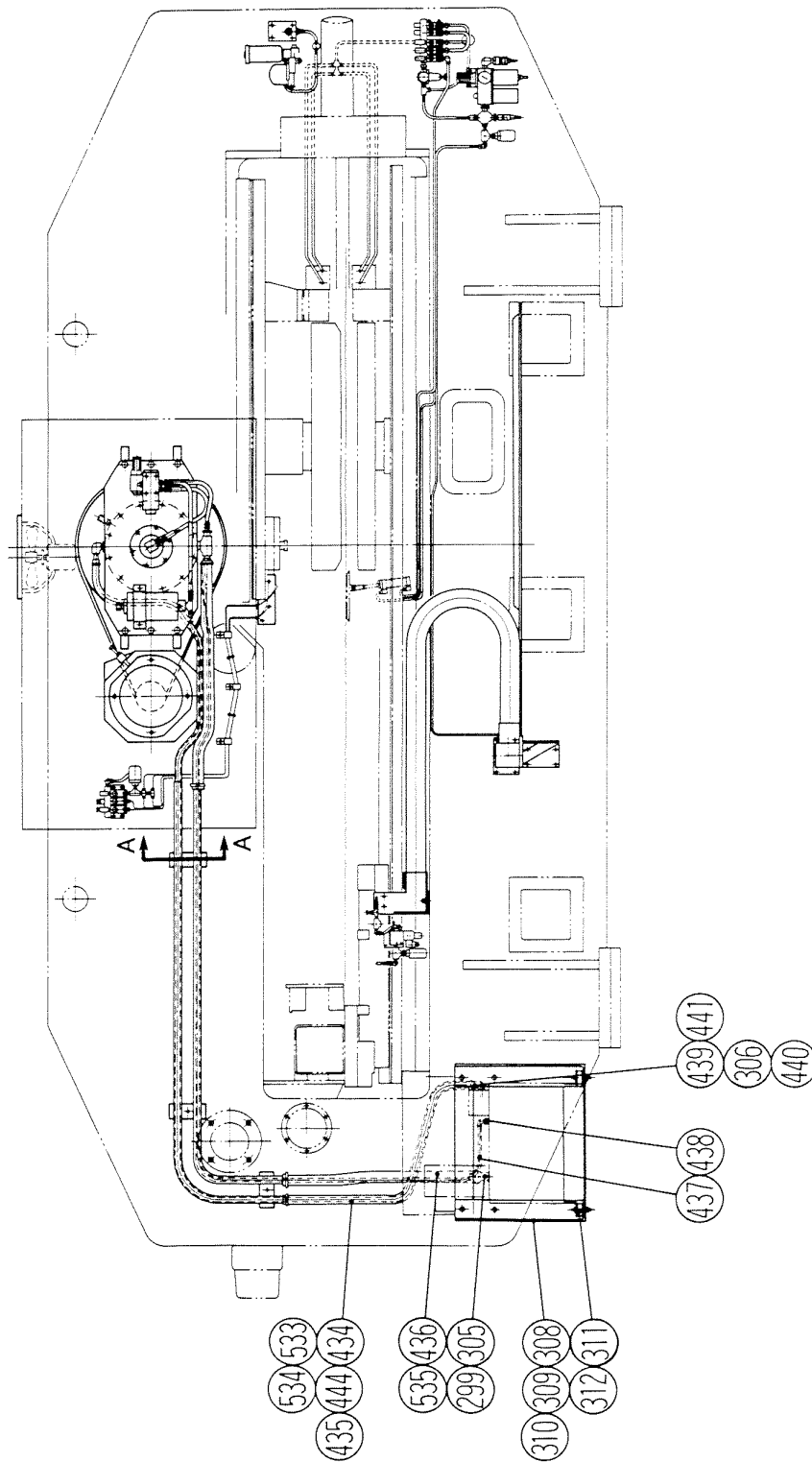
From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
279	74523105	Tube	N2-4-10 x 8 L=0.25 m	1	1	
280	74523025	Service tee	PST10-PT 3/8"	1	1	
282	74523310 (75169925)	Nipple	3/8"	1	1	
318	74523105	Tube	N2-4-10 x 8 L=4.6 m	1	1	
319	74523030	Elbow	PL10-PT 3/8	1	1	
320	74523326	Male-female socket	1/4"	2	2	
321	74522925	Silencer	SA-08	3	3	
322	73157630	Cap screw	M8 x 15	4	4	
323	10001521	Spring washer	M8	4	4	
327	74523106	Tube	N2-4-6 x 4 L=6.8 m	1	1	
329	74523401 (58251326)	Bushing	1/2" x 1/4"	2	2	
330	74523401 (58251326)	Bushing	1/2" x 1/4"	2	2	
333	74523016	Male connector	C4N6-PT 1/8"	3	3	
417	74309203	Air supply unit	7931063	1	1	~ C67733 ~ C57985
418	74300606 (44235241)	Cap screw	M8 x 20	2	2	
419	74300518 (10001521)	Spring washer	M8	2	2	
420	74300511	Washer	M8	2	2	
421	74309907 (74162521)	Socket	20 SH	1	1	
422	74310203 (74162402)	Solenoid valve	5ER-8E	1	1	
423	74311405	Manifold (1)	7832038	1	1	
424	74304964 (36334227)	Cap screw	M6 x 70	2	2	
425	74309215	Regulator	AR210-03G-X222	1	1	
426	74310022 (52310438)	Connector	EC10-PT 1/4"	2	2	
427	74310214 (21104233)	Tube	N2-4-10 x 8 L=5.5 m	1	1	
428	74338327	Union tee	EUT 6	1	1	~ Dec. '88
429	74523332	Tee	ET6-PT 1/4"	1	1	~ Dec. '88
430	74338605	Male connector	EC6-PT 1/4"	1	1	~ Dec. '88
431	10325312	Pan head machine screw	M6 x 10	3	3	
432	74310620	Toothed lock washer	M6	3	3	
433	74338606	Male elbow	EL6-PT 1/4"	4	4	
532	74309960	Y-joint	EY6-PT 1/4"	2	2	Dec. '88 ~
540	74309204	Air supply unit	7931067	1	1	C67734 ~ C57986 ~
541	74309825 (74162615)	Male-female elbow	1/4"	1	1	C67734 ~ C57986 ~
542	74523001	Plug	20PM	1	1	C67734 ~ C57986 ~
543	74523309 (75169924)	Nipple	1/4"	1	1	C67734 ~ C57986 ~
544	74523309 (75169924)	Nipple	1/4"	1	1	C67734 ~ C57986 ~
545	74523334	Cross	1/4"	1	1	C67734 ~ C57986 ~
546	74523012	Male connector	PC10-PT 1/4"	1	1	C67734 ~ C57986 ~

Unit No. 17
 Hydraulic and pneumatic piping
 From serial No. C67679 (506072), C57982 (505072) and after.



SECTION "A-A"



Unit No. 17

Hydraulic and pneumatic piping

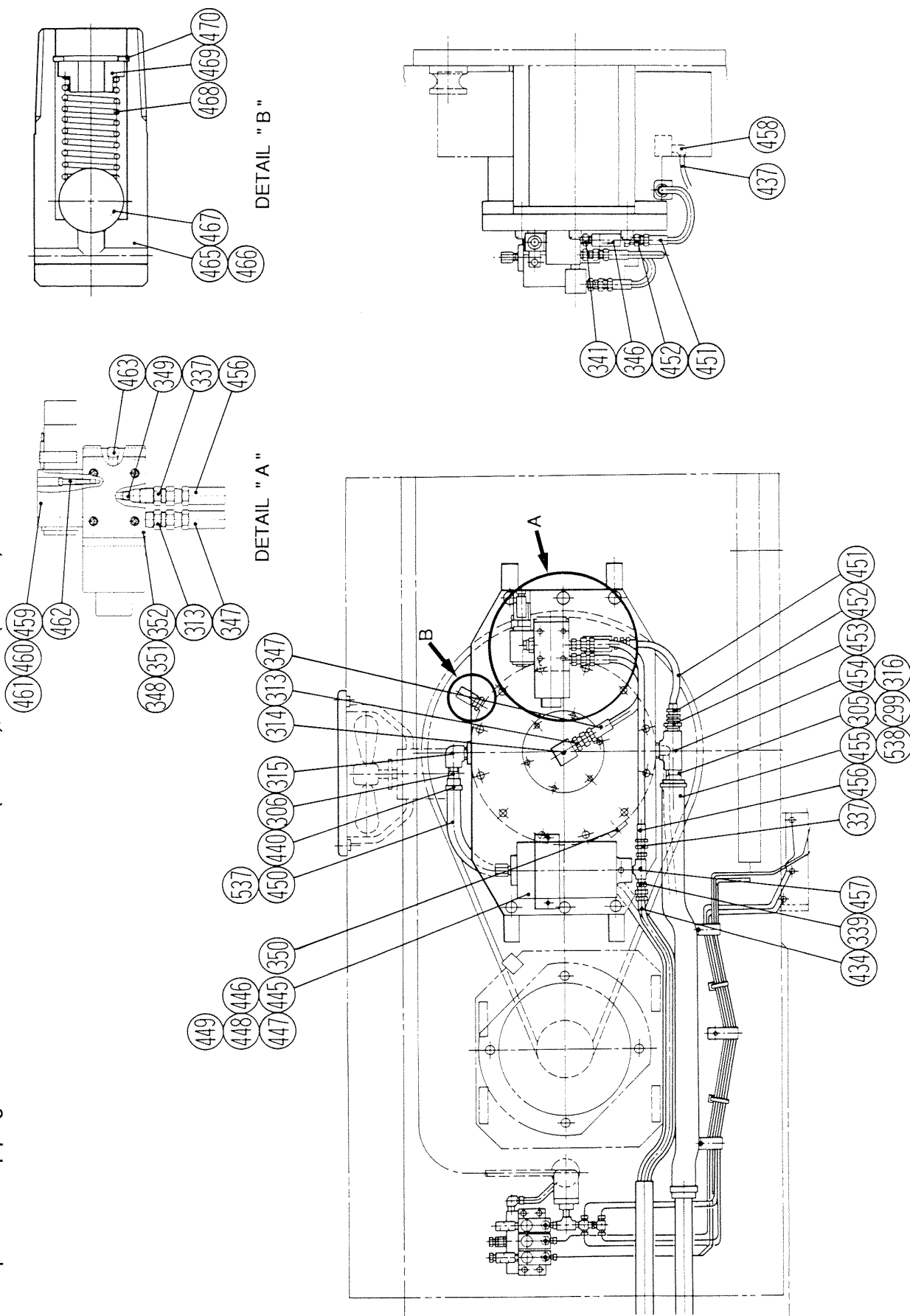
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 17

Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 17

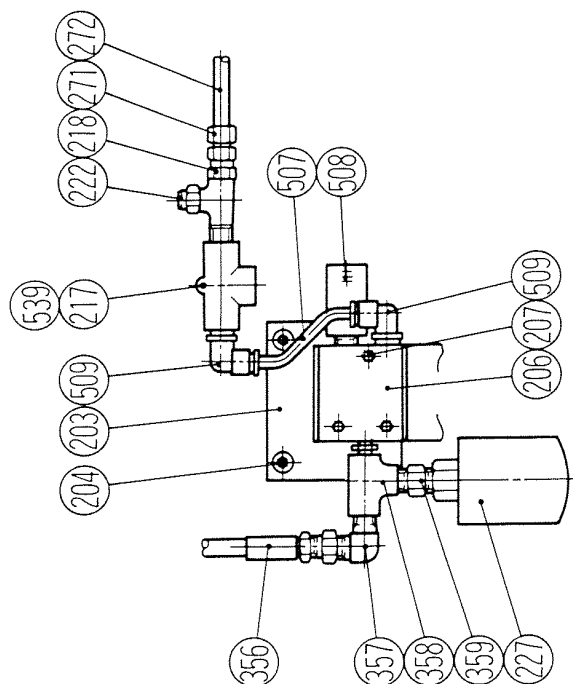
Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.

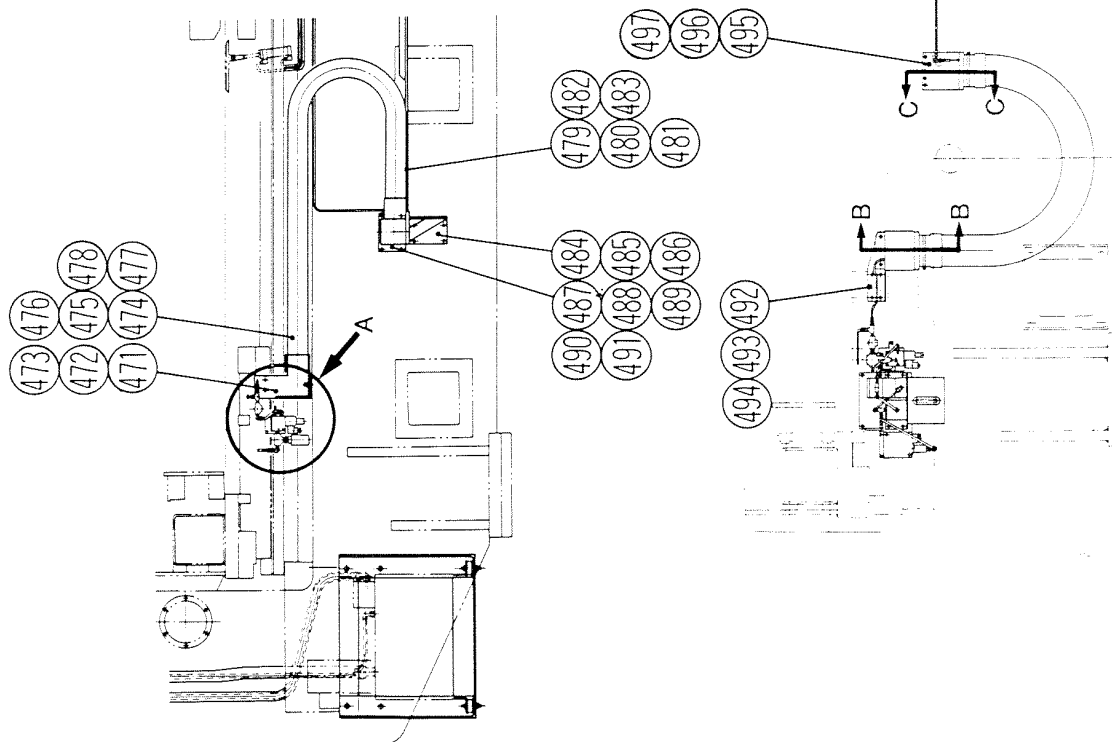
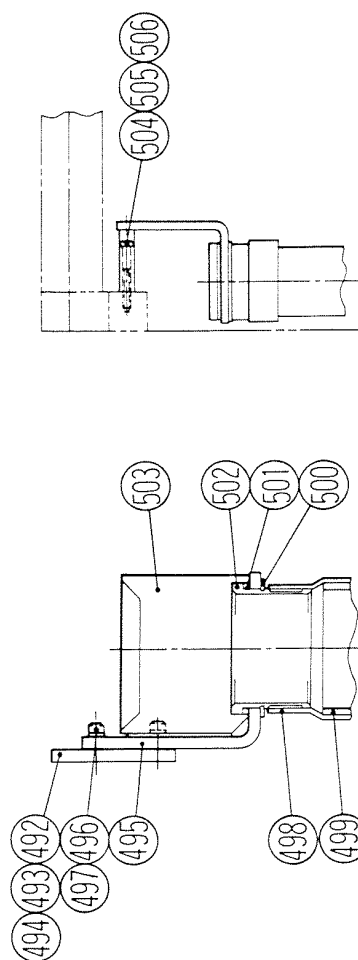
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
313	74523132 (36115917)	Adapter	3001F06	2	2	
314	74522625	Elbow	6013659	1	1	
315	74523320	Male-female elbow	1/2"	1	1	
316	74523420	Barrel nipple	1"	1	1	
337	74523132 (36115917)	Adapter	3001F06	2	2	
339	74523132 (36115917)	Adapter	3001F06	1	1	
341	74523314	Nipple	SNP03-000J	1	1	
346	74522914	In-line check valve	CIT-03-5-20	1	1	
347	74523127	Tube	F506 450 L	1	1	
348	74522619	Solenoid block	6013915a	1	1	
349	74522620	Throttle plug	6013916a	1	1	
350	74523303	Plug (for hydraulic)	PT 1"	2	2	
351	74535121	Cap screw	M10 x 75 (UNBRAKO)	4	4	
352	74522903	Solenoid valve	3WE10A-A0/AW100-00NPL	1	1	
445	74309229	Accumulator	7931064b	1	1	
446	74309241 (74338006)	Band	817768a	1	1	a: Sep. '88 ~
447	74300604	Cap screw	M6 x 15	2	2	
448	74305430 (10443628)	Cone disk spring	M6	2	2	
449	74310530	Spring pin	Φ10 x 50	1	1	
450	74310258	HP tube	Φ19 x Φ37 x 1400 L	1	—	~ Dec. '88
450	74523222	HP tube	Φ19 x Φ37 x 1450 L	—	1	~ Dec. '88
451	74310235	Tube	JLW-06 310 L	1	1	
452	74310512 (36115917)	Adapter	3001F06	2	2	
453	74309906	Bushing	1" x 3/8"	1	1	
454	74310324	Tee	1"	1	1	
455	74310259	HP tube	Φ31.8 x Φ53 x 950 L	1	1	~ Dec. '88
456	74310261	Tube	F506 x 600 L	1	1	
457	74310334	Tee	TF-2/SK-1003	1	1	
458	74310021 (52310445)	Elbow	EL10-PT 1/4"	1	1	
459	74310137	Solenoid valve	7931066	1	1	
460	74308507	Thermo sensor	TF51P-1	1	1	~ Oct. '89
461	74520002	Hose band	TM-144SS50	1	1	~ Oct. '89
462	74304903	Cap screw	M5 x 50	4	4	
463	74309815 (73118306)	Plug	1/4"	1	1	
464	74301135	Check valve ass'y	821230b	1	1	
465	74301139	Casing	821231	1	1	
466	74301704	Bushing	1" x 1/2"	1	1	~ Aug. '89
467	74301143	Spring guide	821232	1	1	
468	74301147	Spring	821233b	1	1	
469	74301728	Stainless ball	1/2"	1	1	

Unit No. 17
Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.



DETAIL "A"



Unit No. 17

Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
203	74522505	Solenoid plate	827637a	1	1	
204	21415514	Cap screw	M8 x 25	2	2	
206	74522904	Solenoid valve	3EC-8E	1	1	
207	74309801	Cap screw	M5 x 40	3	3	
217	74522915	Check valve	VR1310-02	1	1	~ Jan. '89
218	74523327	Male-female tee	1/4"	1	1	
222	74523302	Plug	1/4"	1	1	without Air L.P.
227	74522729 (74309205)	Pressure switch	7931003	1	1	
356	74522802	Tube	824714	1	1	
357	74332511	90° elbow	1033-04	1	1	
358	74310506	Male-female tee	1/4"	1	1	
359	74309938 (81182510)	Nipple	3/8" x 1/4"	1	1	
471	74522703	Bracket	827547a	1	—	
472	74300606 (44235241)	Cap screw	M8 x 20	3	—	
473	74300518 (10001521)	Spring washer	M8	3	—	
474	74522702	Cap-flex	KR185-No. 2/type-4 L=1.8 m	1	—	
475	74302817 (73157630)	Cap screw	M8 x 15	4	—	
476	74300518	Spring washer	M8	4	—	
477	74300511	Washer	M8	4	—	
478	10001517	Nut	M8	4	—	
479	74522705	Duct base	827541b	1	—	
480	74354905	Countersink head machine screw	M6 x 20	8	—	
481	74302814	Cap screw	M6 x 14	2	—	
482	44027928	Spring washer	M6	2	—	
483	74522707	Rubber	1 ^t x 180 x 1400 L	1	—	
484	74522704	Floor bracket	827549a	1	—	
485	74300607 (21415514)	Cap screw	M8 x 25	4	—	
486	74300518 (10001521)	Spring washer	M8	4	—	
487	74522706	Duct support	827692	1	—	
488	74300606 (44235241)	Cap screw	M8 x 20	4	—	
489	74300518 (10001521)	Spring washer	M8	4	—	
490	74302814	Cap screw	M6 x 14	2	—	
491	44027928	Spring washer	M6	2	—	
492	74522716	Duct plate	827655a	—	1	
493	74300607 (21415514)	Cap screw	M8 x 25	—	4	
494	74300518 (10001521)	Spring washer	M8	—	4	
495	74309425	Duct bracket	827738	—	2	
496	74300607 (21415514)	Cap screw	M8 x 25	—	4	
497	74300518 (10001521)	Spring washer	M8	—	4	
498	74310424 (74163127)	Wire band	φ100	—	2	

Unit No. 17
Hydraulic and pneumatic piping

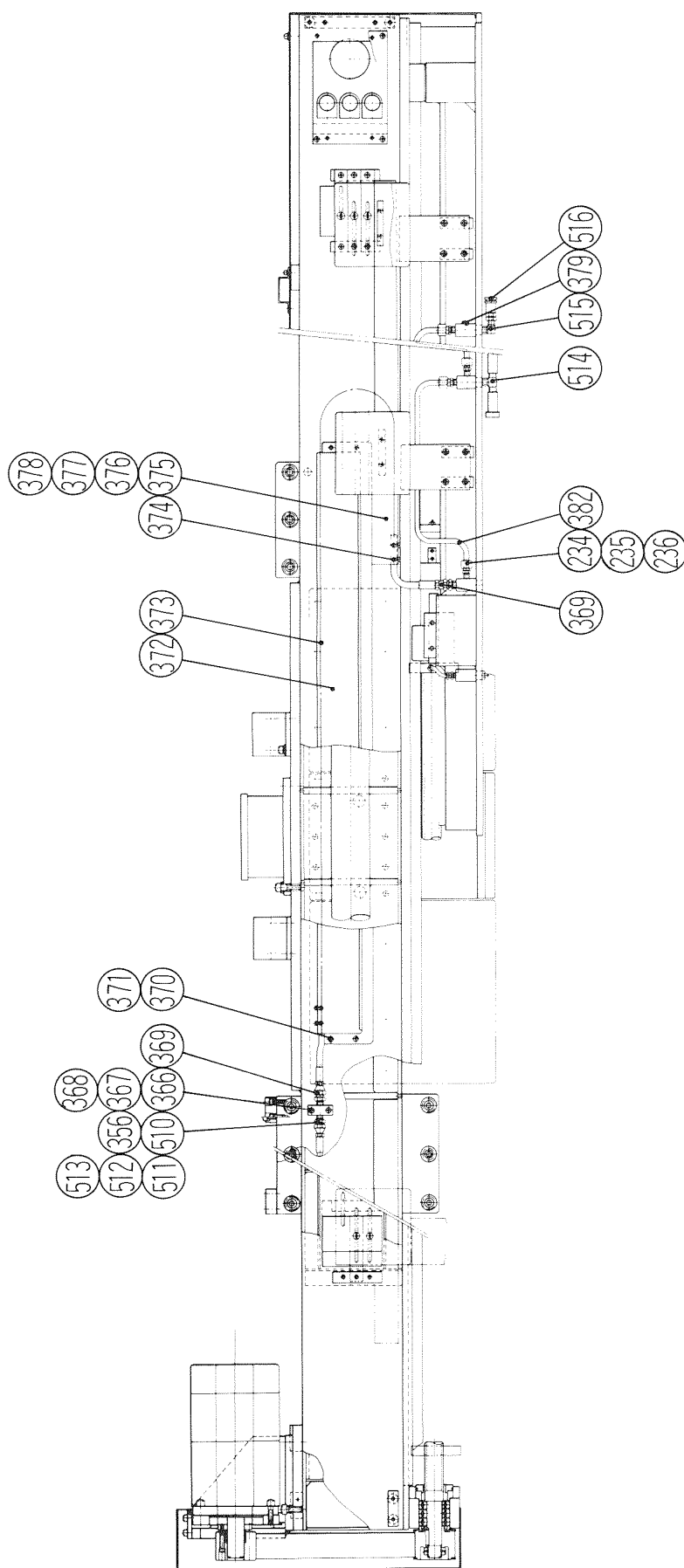
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 17

Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 17

Hydraulic and pneumatic piping

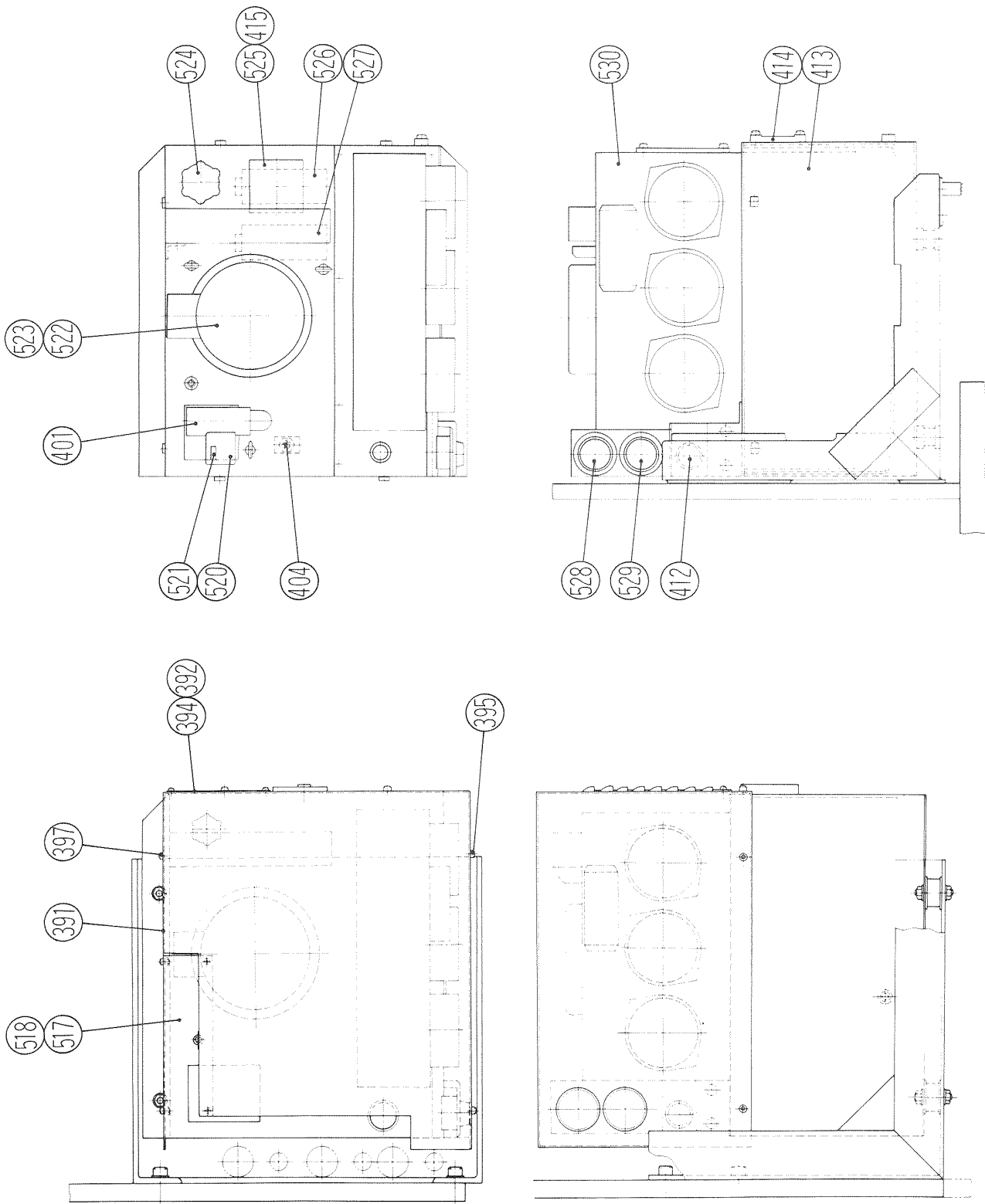
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 17

Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.

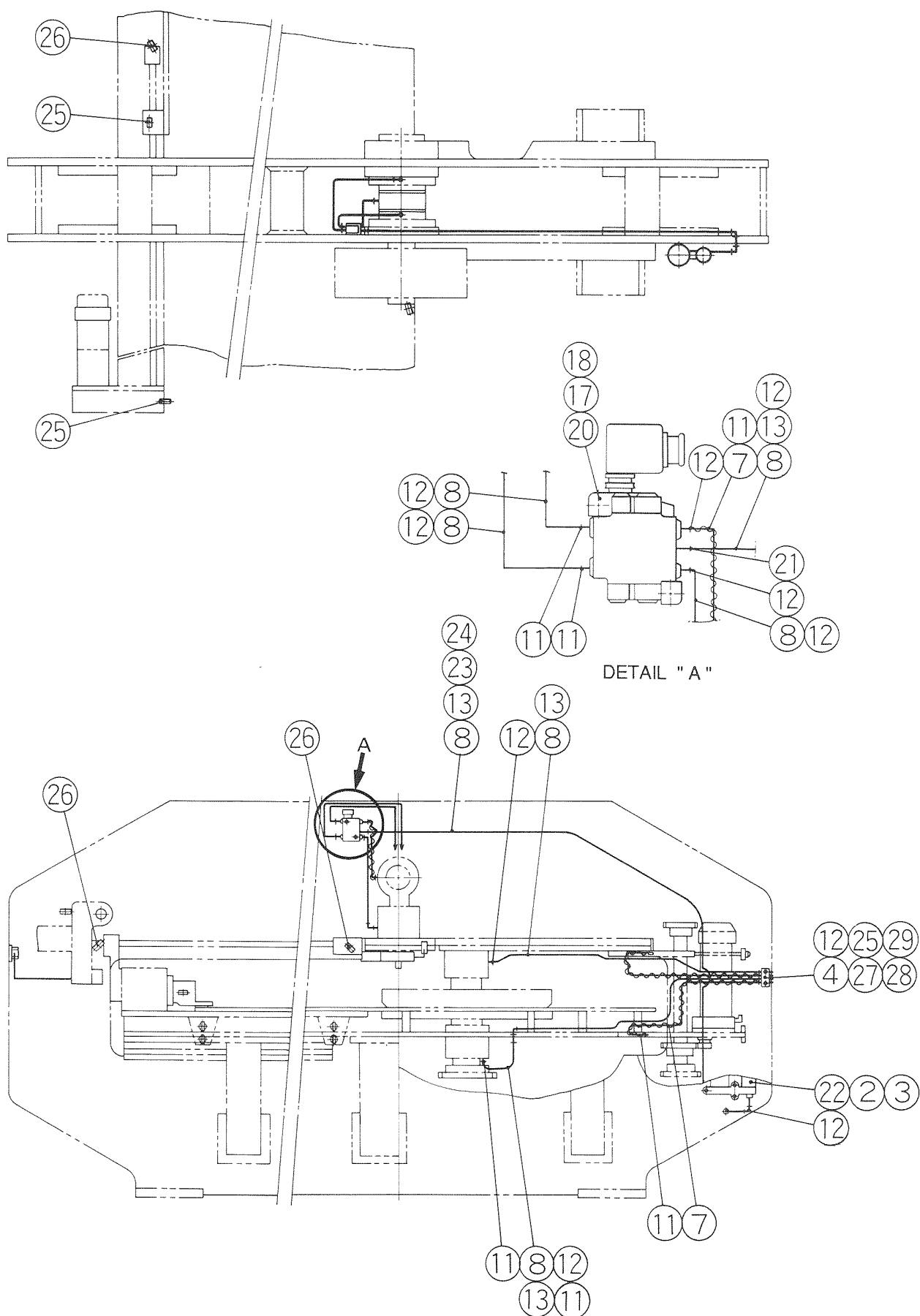


Unit No. 17

Hydraulic and pneumatic piping

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

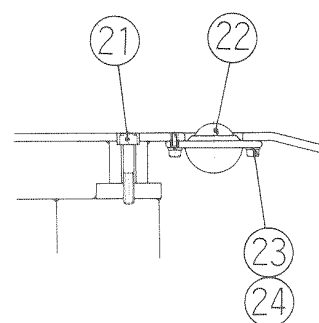


Unit No. 18

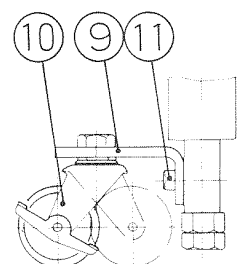
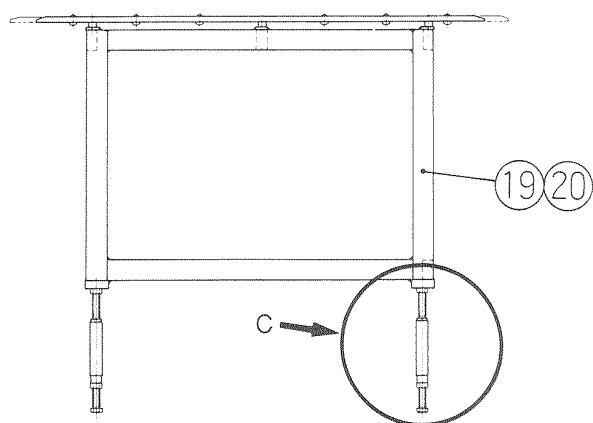
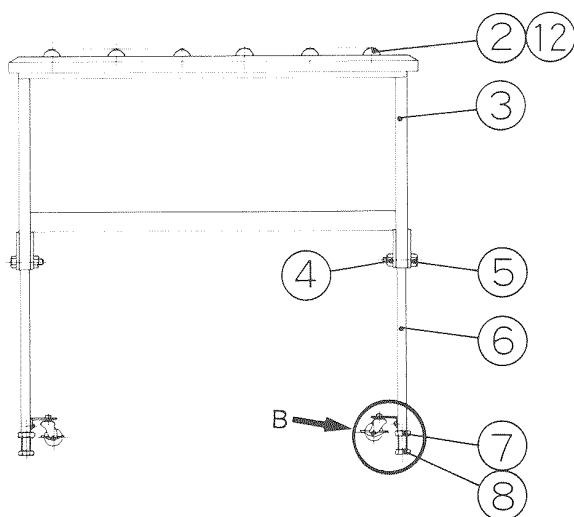
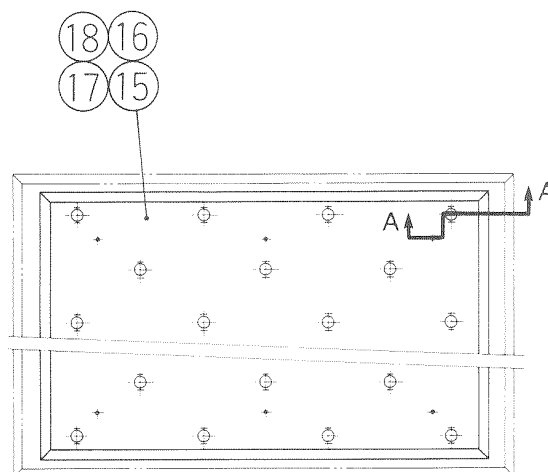
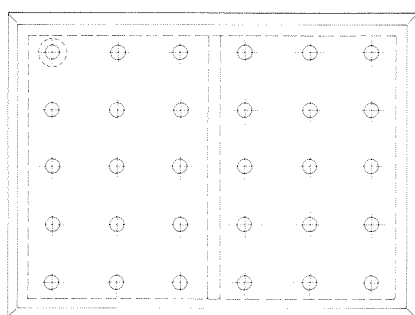
Lubrication

From serial No. C67679 (506072), C57982 (505072) and after.

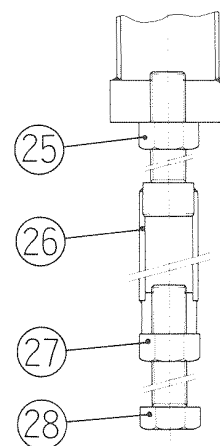
[illegible]



SECTION "A - A"



DETAIL "B"



DETAIL "C"

Unit No. 25

Sub table

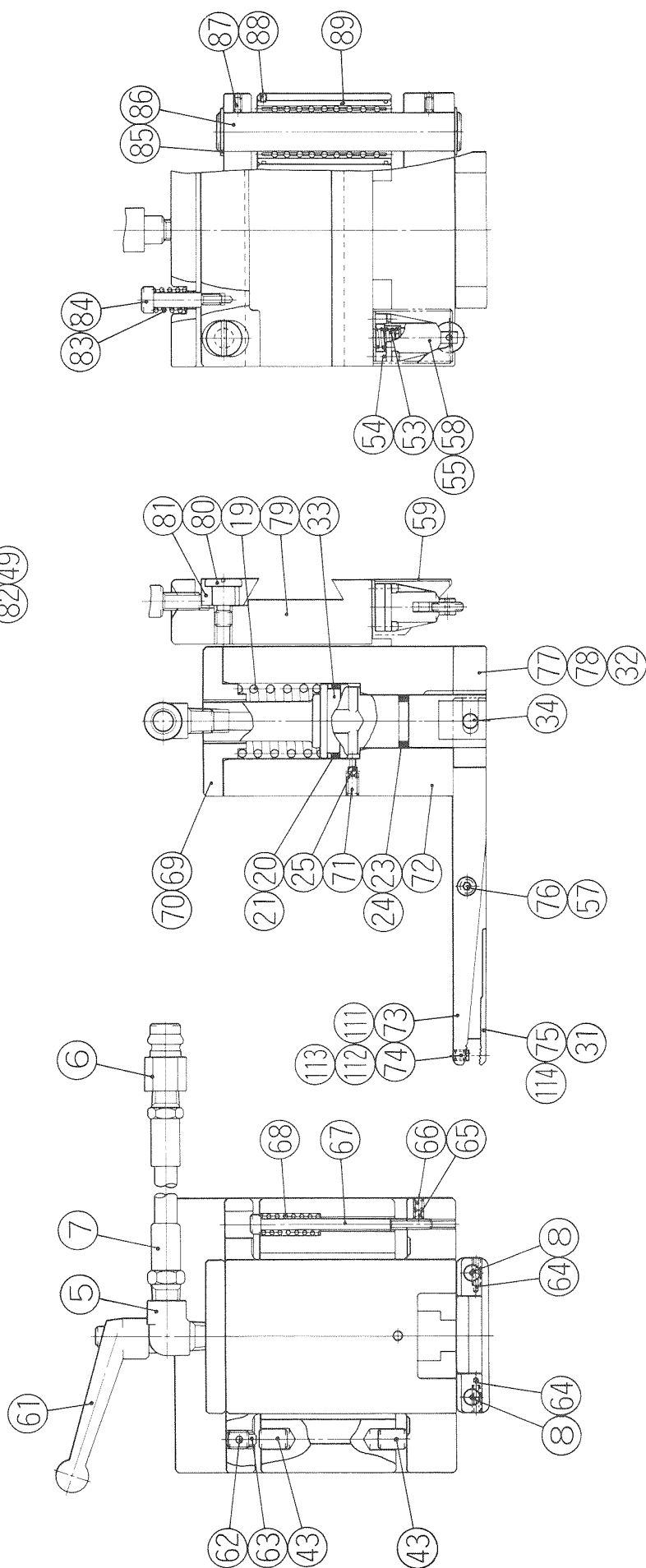
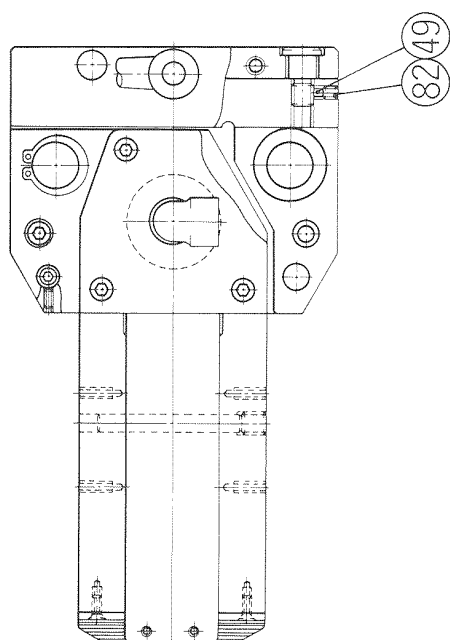
From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74525002 (74311101)	Sub table ass'y	827180b	1	1	
2	74525026 (75171014)	Free stroke bearing	C-8L	30	30	
3	74525005 (74311105)	Table	827183a	1	1	
4	10555324	Nut	M12	4	4	
5	74301611	Bolt	M12 x 60	4	4	
6	74525010 (74311109)	Adjusting leg	827184b	4	4	
7	10001515	Nut	M16	4	4	
8	74534804	Bolt (all thread)	M16 x 75	4	4	
9	74525015 (74311113)	Caster support	827185	4	4	
10	74525022	Caster	K-415A-C-50	4	4	
11	44235241	Cap screw	M8 x 20	8	8	
12	74525027 (74160220)	Snap ring	RTW-56	30	30	
13	74525035	Sub table ass'y (520x1200) (650x1200)	829450	1	1	
14	74525037	Sub table ass'y (1100x1300) (1200x1450)	829451	1	1	
15	74525043	FB table (A) (520 x 1200)	829452	1	1	
16	74525044	FB table (B) (650 x 1200)	829453	1	1	
17	74525045	FB table (C) (1100 x 1300)	829454	1	1	
18	74525046	FB table (D) (1200 x 1450)	829455	1	1	
19	74525051	Table (A)	829457	1	1	
20	74525052	Table (B)	829458	1	1	
21	74304905	Cap screw	M6 x 35	6	6	
22	74525026 (75171014)	Free stroke bearing (520 x 1200)	C-8L	11	11	
22	74525026 (75171014)	Free stroke bearing (650 x 1200)	C-8L	18	18	
22	74525026 (75171014)	Free stroke bearing (1100 x 1300)	C-8L	25	25	
22	74525026 (75171014)	Free stroke bearing (1200 x 1450)	C-8L	32	32	
23	74314401	Cap screw (520 x 1200)	M4 x 10	22	22	
23	74314401	Cap screw (650 x 1200)	M4 x 10	36	36	
23	74314401	Cap screw (1100 x 1300)	M4 x 10	50	50	
23	74314401	Cap screw (1200 x 1450)	M4 x 10	64	64	
24	44027327	Spring washer (520 x 1200)	M4	22	22	
24	44027327	Spring washer (650 x 1200)	M4	36	36	
24	44027327	Spring washer (1100 x 1300)	M4	50	50	
24	44027327	Spring washer (1200 x 1450)	M4	64	64	
25	74525064 (44449625)	Nut	M20 x 2.5	4	4	
26	74525057	Adjust bar	829459	4	4	
27	74525064 (44449625)	Nut	M20 x 2.5	4	4	
28	74525065	Cap screw (all thread)	M20 x 100	4	4	

Unit No. 26

Hydraulic thin clamp

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 26

Hydraulic thin clamp

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
5	74525516	Elbow	LF-2-SK-602	2	2	
6	74525513	Coupler (plug)	2HP (1/4")	2	2	
7	74525402	Hydraulic hose	827577c	2	2	
8	71102228	Countersink head socket screw	M4 x 10 (UNBRAKO)	4	4	
19	74525311	Return spring	826047a	2	2	
20	74525503 (58352809)	O-ring	P-32	2	2	
21	74525505 (74161338)	Back-up ring	P-32-T2	2	2	
23	74525502 (10206606)	O-ring	P-22	2	2	
24	74525504 (74161339)	Back-up ring	P-22-T2	2	2	
25	74525430	Steel ball	#3/16"	2	2	
31	74534716	Countersink head socket screw	M5 x 12 (UNBRAKO)	8	8	
32	44235241	Cap screw	M8 x 20	8	8	
33	74525306	Piston	826077b	2	2	
34	74534516	Straight pin	Ø8m6 x 36	2	2	
43	74516908 (74303731)	Cushion	806009	8	8	
49	74516819 (74303816)	Insert	806073	4	4	
53	74516924 (74303727)	Spring	826015c	4	4	
54	74516928 (74303718)	Spacer	826016b	4	4	
55	74535102	Cap screw	M4 x 16 (UNBRAKO)	16	16	
57	74319128	Set screw (cone end)	M10 x 10	2	2	
58	74517017	Head	for 6WPH200-1	4	4	
59	74516932 (74304810)	Head cover	826017	4	4	
61	74517002	Clamp lever	KR10 x 20	2	2	
62	74306405	Set screw (cup end)	M6 x 6	4	4	
63	10443459	Set screw (dog end)	M10 x 17	4	4	
64	74516830 (74161353)	Stopper plate	816026c	4	4	c: Nov. '89 ~
65	74516819 (74303816)	Insert	806073	4	4	
66	74306405	Set screw (cup end)	M6 x 6	4	4	
67	74535206	Cap screw	M6 x 90	4	4	
68	74525315	Spring	5594212	4	4	
69	74525307	Cylinder cap	826179	2	2	
70	74300604	Cap screw	M6 x 15	8	8	
71	74534603	Set screw	M6 x 10 (UNBRAKO)	2	2	
72	74525305	Cylinder	826191a	2	2	a: Sep. '89 ~
73	74525324	Clamper	826194	2	2	
74	10335405	Set screw (cup end)	M5 x 6	4	4	
75	74525329 (74304617)	Clamp plate	816025b	2	2	
76	74534514	Straight pin	Ø8 x 63	2	2	
77	74525323	Clamp base	826193	2	2	
78	74534528	Straight pin (with screw)	Ø10m6 x 32	4	4	

Unit No. **26**
Hydraulic thin clamp

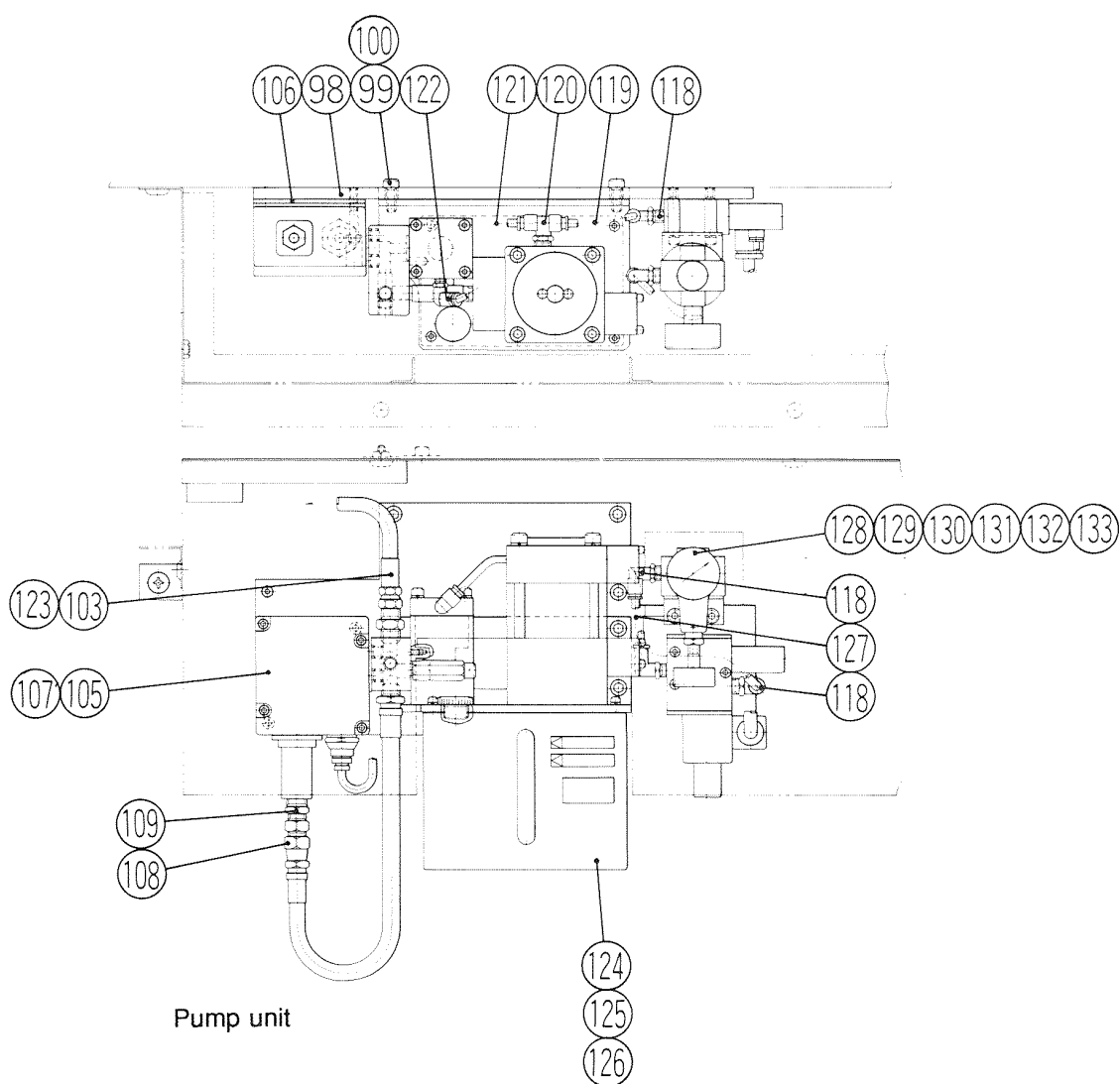
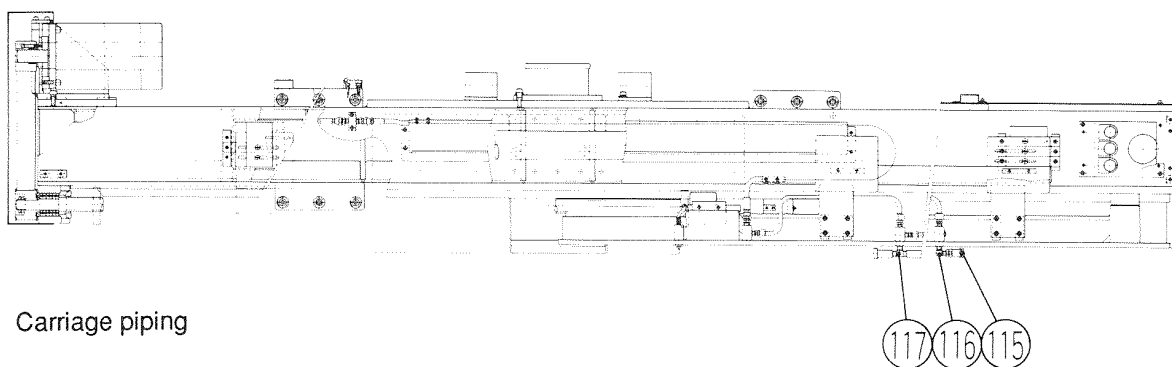
Hydraulic thin clamp

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

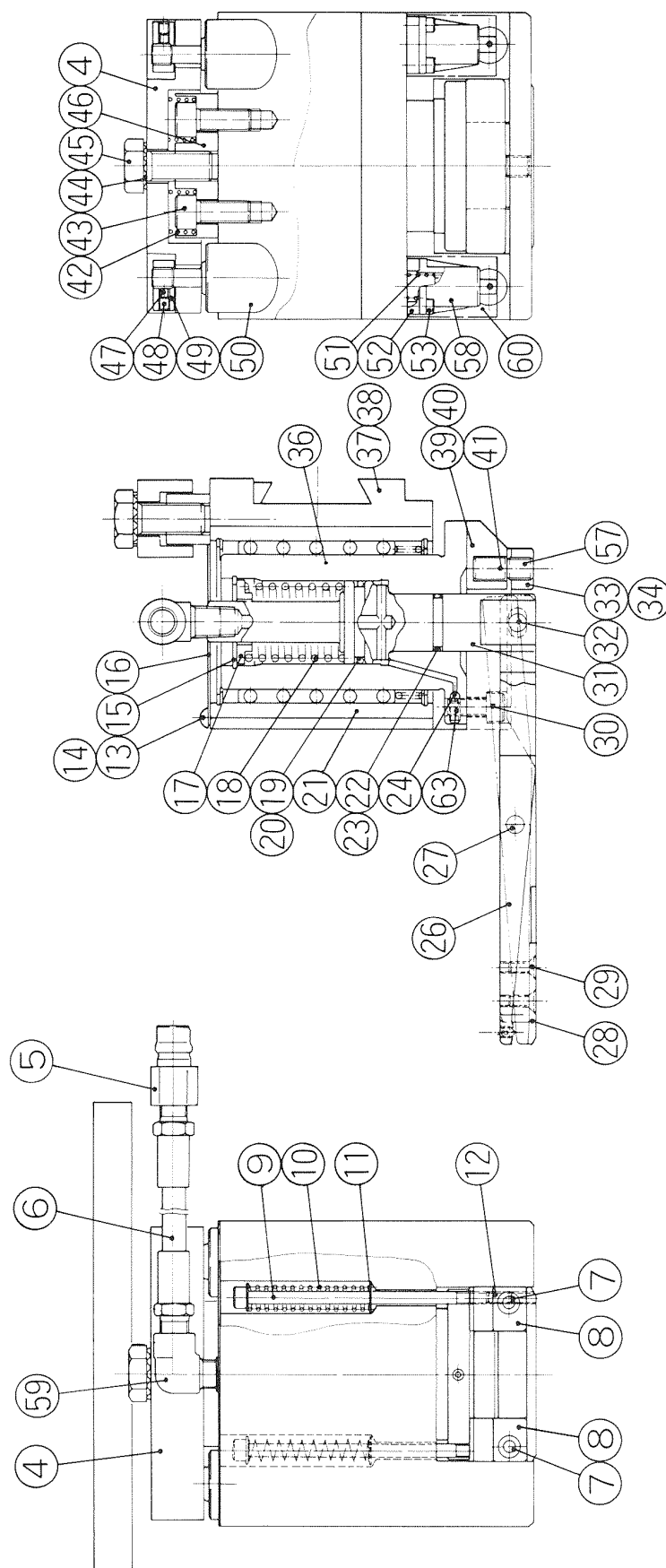
Unit No. 26
Hydraulic thin clamp

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 27
Hydraulic thick clamp

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **27**

Hydraulic thick clamp

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
3	74525701 (74161305)	Hydraulic clamp (thick) ass'y	826040f	2	2	
4	74525709	Pressure plate	826055	2	2	
5	74525513	Coupler	2HP (1/4")	2	2	
6	74525402 (74161328)	Hydraulic hose	827577c	2	2	
7	74535319	Countersink head socket screw	M6 x 18 (UNBRAKO)	4	4	
8	74525730 (74161327)	Stopper plate	826043a	4	4	
9	74535203	Cap screw	M6 x 110	4	4	
10	74525715 (74161331)	Spring	806021	4	4	
11	44027930	Washer	M6	8	8	
12	52104301	Set screw (flat end)	M6 x 8	4	4	
13	74534919	Round head socket screw	M6 x 12	8	8	
14	74535214	Toothed lock washer	M6	8	8	
15	74525916	Snap ring	RTW-50	2	2	
16	74525708	Cover	826054a	2	2	
17	74525707	End support	826048b	2	2	
18	74525311	Return spring	826047a	2	2	
19	74525902 (10315810)	O-ring	P-42	2	2	
20	74525903 (74161337)	Back-up ring	P-42-T2	2	2	
21	74525910	L.M. stroke bearing	ST-60-4014	2	2	
22	74517008 (36110501)	O-ring	P-16	2	2	
23	74525904 (74161340)	Back-up ring	P-16-T2	2	2	
24	74525430	Steel ball	#3/16"	2	2	
26	74525724	Clamper	826045b	2	2	
27	74534519	Straight pin	Φ13 x 80	2	2	
28	74525729 (74161322)	Clamp plate	826046	2	2	
29	74163027	Countersink head socket screw	M6 x 18	8	8	
30	74535114	Cap screw	M8 x 20 (UNBRAKO)	8	8	
31	74525706	Piston	826053c	2	2	
32	74534517	Straight pin	Φ10m6 x 36	2	2	
33	74525816	Under plate	826049a	2	2	
34	74535319	Countersink head socket screw	M6 x 18 (UNBRAKO)	8	8	
36	74525705	Cylinder	826051c	2	2	
37	74525815	Clamp housing	826050b	2	2	
38	74516513 (75169304)	Grease nipple	A-PT 1/8"	2	2	
39	74525723	Clamp base	826044b	2	2	
40	74534510	Straight pin	Φ6 x 40	4	4	
41	74516908 (74303731)	Cushion	806009	2	2	
42	74525823	Spring	826057	4	4	
43	74535118	Cap screw	M10 x 25 (UNBRAKO)	4	4	
44	74535216	Toothed lock washer	M14	2	2	

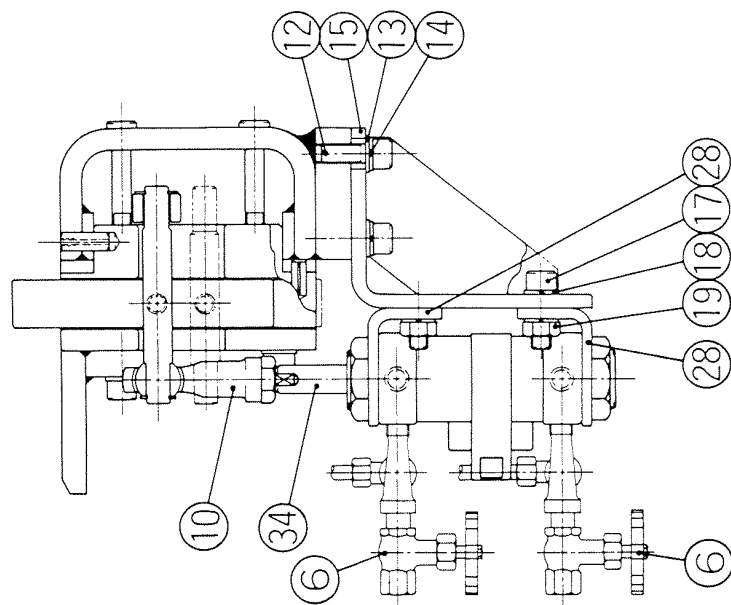
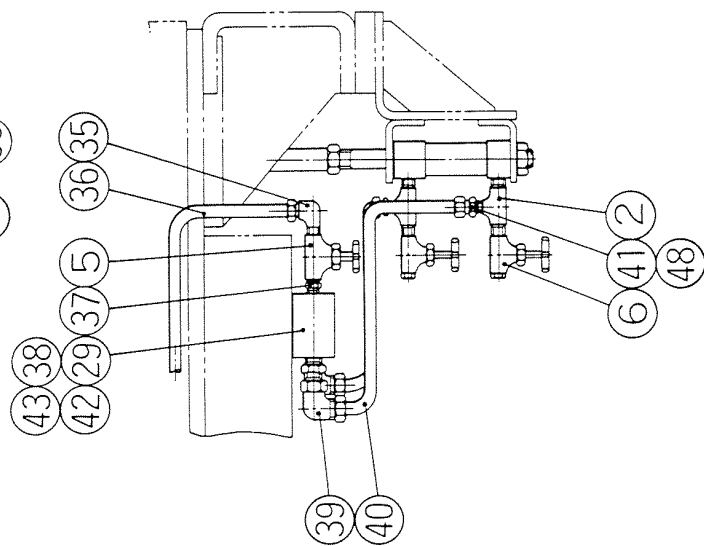
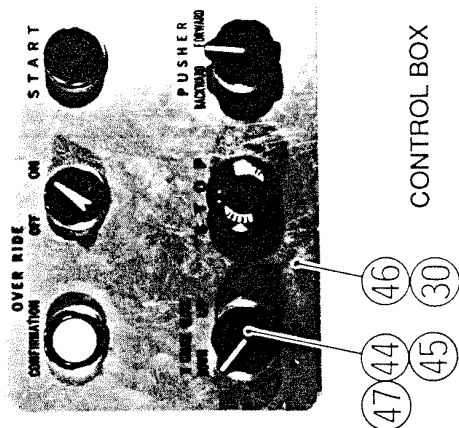
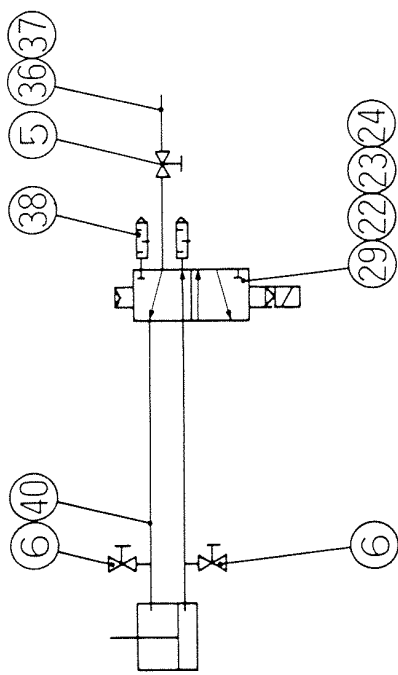
Unit No. 27

Hydraulic thick clamp

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 28
Pneumatic X-gauge block From serial No. C67679 (506072), C57982 (505072) and after.



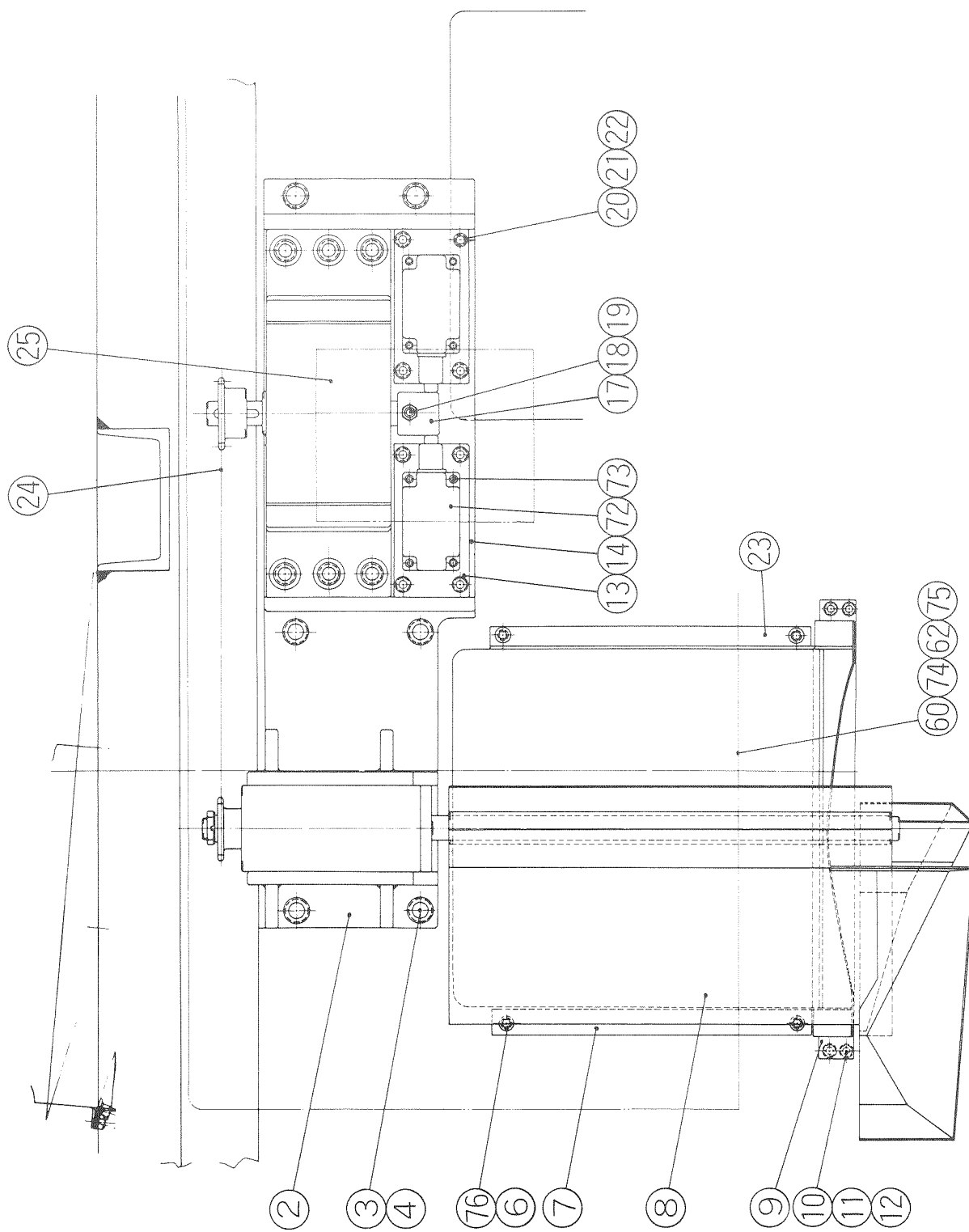
PNEUMATIC PIPING

Unit No. 28

Pneumatic X-gauge block

From serial No. C67679 (506072), C57982 (505072) and after.

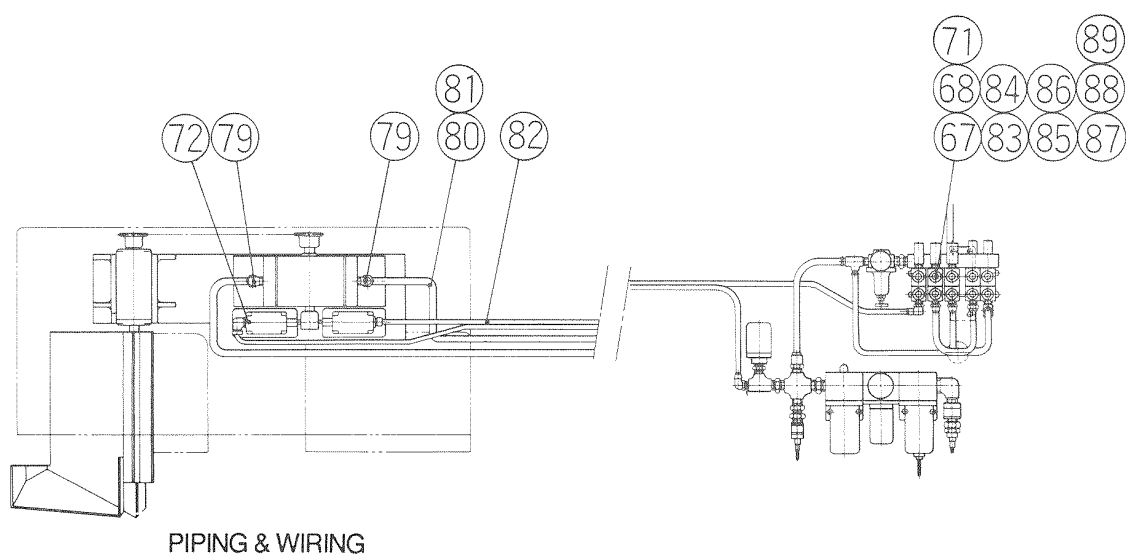
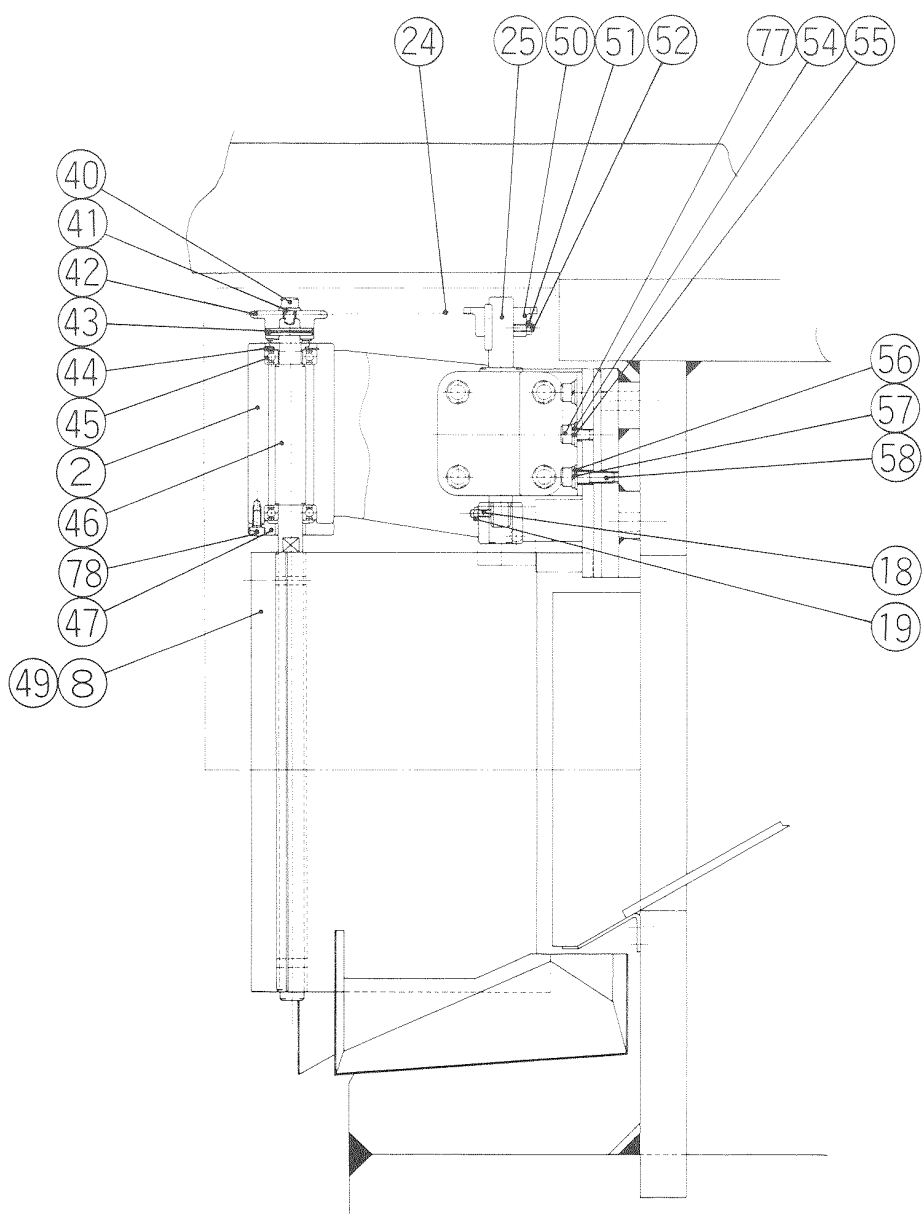
[illegible]



Work selector

From serial No. C67679 (506072), C57982 (505072) and after.

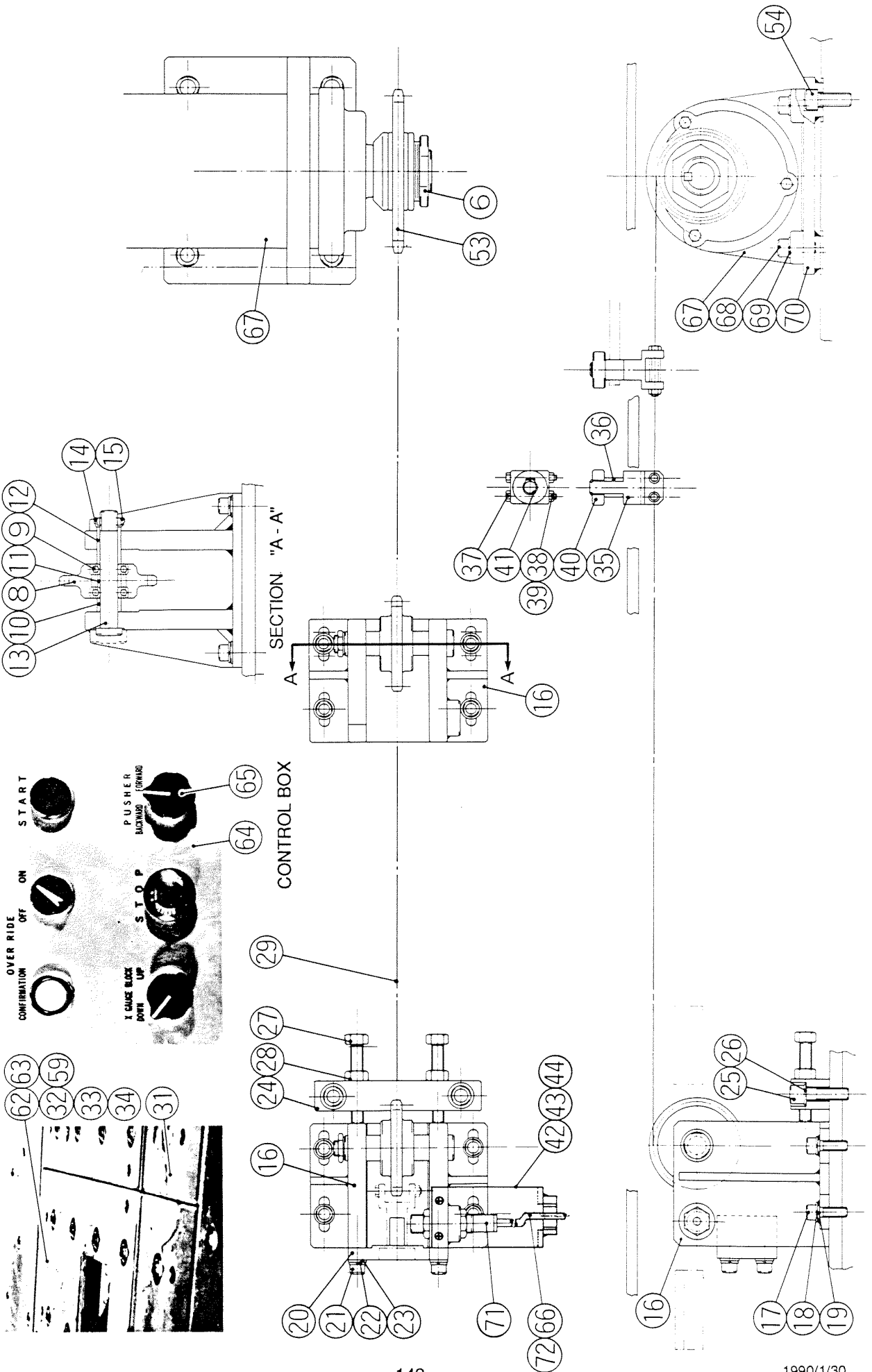
[illegible]



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
40	74302812	Cap screw	M6 x 10	1	1	
41	44027928	Spring washer	M6	1	1	
42	74526512 (74304702)	Driven sprocket	823251	1	1	
43	10564017	Spring pin	Φ4 x 28	1	1	
44	74526632 (44339810)	Snap ring	RTW-35	1	1	
45	74526631 (44446321)	Ball bearing	#6003ZZ	2	2	
46	74526502	Shaft	829631c	1	1	
47	74526507 (74311621)	Bearing retainer	829527	1	1	
49	74311711	Spring pin	Φ6 x 24	2	2	
50	74526513 (74304701)	Sprocket	823236	1	1	
51	10310352	Nut	M6	1	1	
52	21218616	Set screw	M6 x 12	1	1	
54	10001521	Spring washer	M8	2	2	
55	74300511	Washer	M8	2	2	
56	10001521	Spring washer	M8	4	4	
57	74300511	Washer	M8	4	4	
58	74302818	Cap screw	M8 x 30	4	4	
67	74526110 (74162402)	Solenoid valve	5ER-8E	1	1	
68	74535202	Cap screw	M6 x 100	2	2	
71	74526627	Speed control muffler	SM102	2	2	
77	73157630	Cap screw	M8 x 15	2	2	
78	74300604	Cap screw	M6 x 15	4	4	
79	74334427	Elbow	EL6-PT 1/4"	2	2	
80	74310213 (21104225)	Tube	N2-4-6 x 4 L=4 m	2	2	
81	74338605	Connector	EC6-PT 1/4"	2	2	
82	74311515	Cable (T-11EX)	6018382	1	1	
83	74308170	Cable (S-6)	R.R. Y/G VCTF 0.75 mm ² x 3 ^c x 2.8 m	1	1	
84	74341108	Pin	350547-1	3	3	
85	74311406	Manifold (2)	7832039	1	1	
86	74311927	Cap screw	M6 x 100	2	2	
87	74311408	Manifold (4)	7832041	1	1	with A. Index
88	74311927	Cap screw	M6 x 100	2	2	with A. Index
89	10443004	Cap screw	M5 x 70	2	2	with A. Index

Unit No. 30
Work pusher

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 30

Work pusher

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
6	74526804	Torque limiter	823264a	1	1	
8	74526808	Sprocket	823269	2	2	
9	74527002 (10317503)	Ball bearing	#6002ZZ	4	4	
10	74526815	Collar (B)	823275	2	2	
11	74526816	Collar (C)	823276	2	2	
12	74526814	Collar (A)	823270	2	2	
13	74526809	Sprocket shaft	823271a	2	2	
14	74527007 (58135319)	Crown washer	AW02	2	2	Please order together with index No. 15.
15	74527008 (58135315)	Crown nut	AN02	2	2	Please order together with index No. 14.
16	74526822	W.P. bracket	823273c	2	2	
17	21415514	Cap screw	M8 x 25	8	8	
18	10001521	Spring washer	M8	8	8	
19	74300511	Washer	M8	8	8	
20	74526823	W.P. stopper	823274	1	1	
21	74302818	Cap screw	M8 x 30	4	4	
22	10001521	Spring washer	M8	4	4	
23	74300511	Washer	M8	4	4	
24	74526828	Adjusting plate	823272	1	1	
25	74304918	Cap screw	M10 x 35	2	2	
26	10001520	Spring washer	M10	2	2	
27	74534802	Bolt (all thread)	M10 x 65	2	2	
28	10001516	Nut	M10	2	2	
29	74527102	Chain	RS50HP 176 links	1	—	
29	74527103	Chain	RS50HP 156 links	—	1	
31	74526903	C.R. table	823182a	1	—	
31	74526904	C.R. table	823705a	—	1	
32	44028616	Cap screw	M12 x 30	2	2	
33	44028619	Spring washer	M12	4	4	
34	74302822	Cap screw	M12 x 70	2	2	
35	74526801	Work pusher	823267a	1	1	
36	74527003	Needle bearing	NK 10/16	1	1	
37	52106956	Bolt	M5 x 40	2	2	
38	13239613	Nut	M5	2	2	
39	44027927	Spring washer	M5	2	2	
40	74526910	Cap	823268	1	1	
41	74527012 (10205431)	Snap ring	STW-10	1	1	
42	74526911	Sensor cover	823277a	1	1	a: Apr. '89 ~
43	52112904	Round head machine screw	M6 x 12	2	2	
44	74535214	Toothed lock washer	M6	2	2	
53	74527104	Sprocket	RS50 16T type A	1	1	

Work pusher

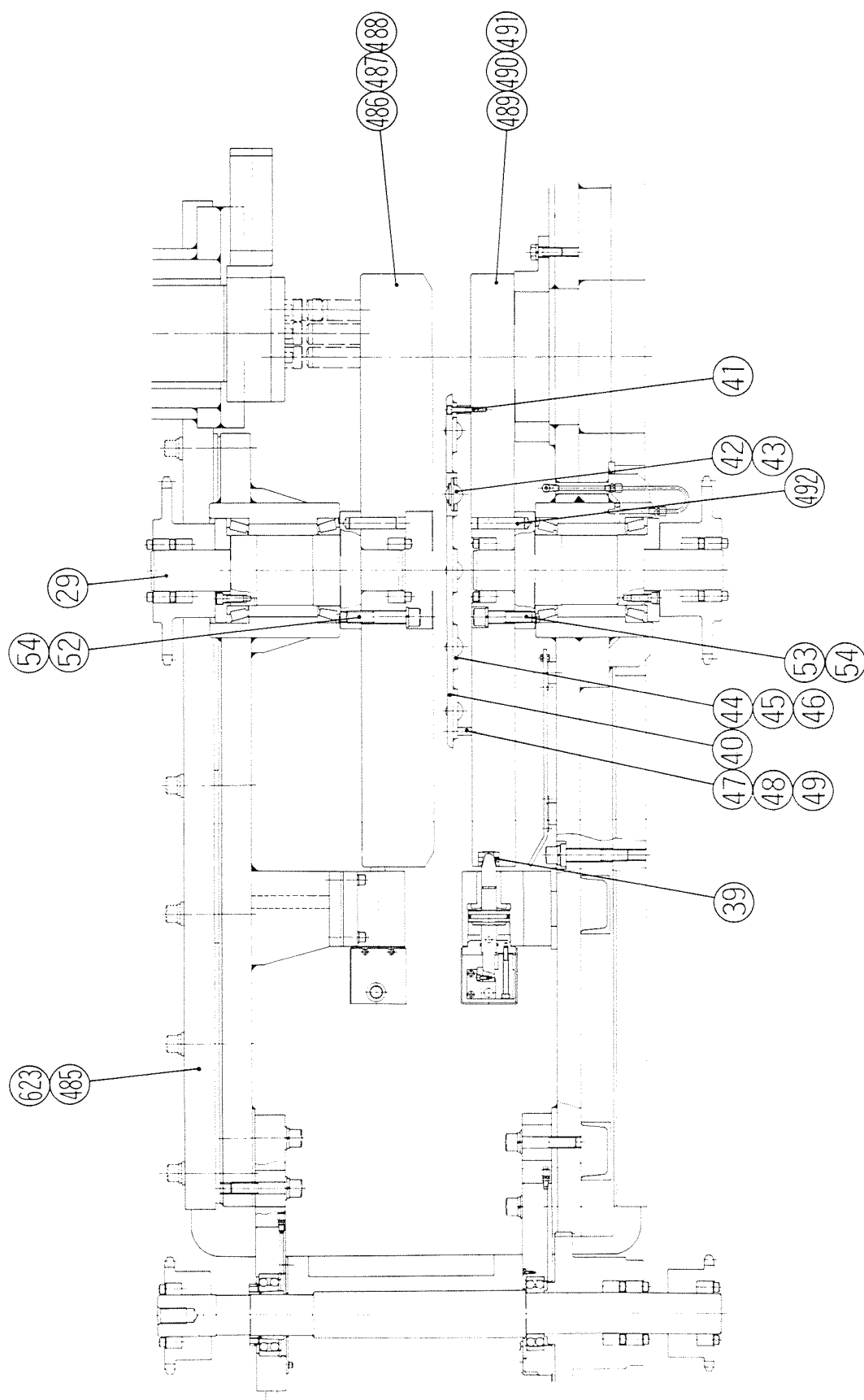
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



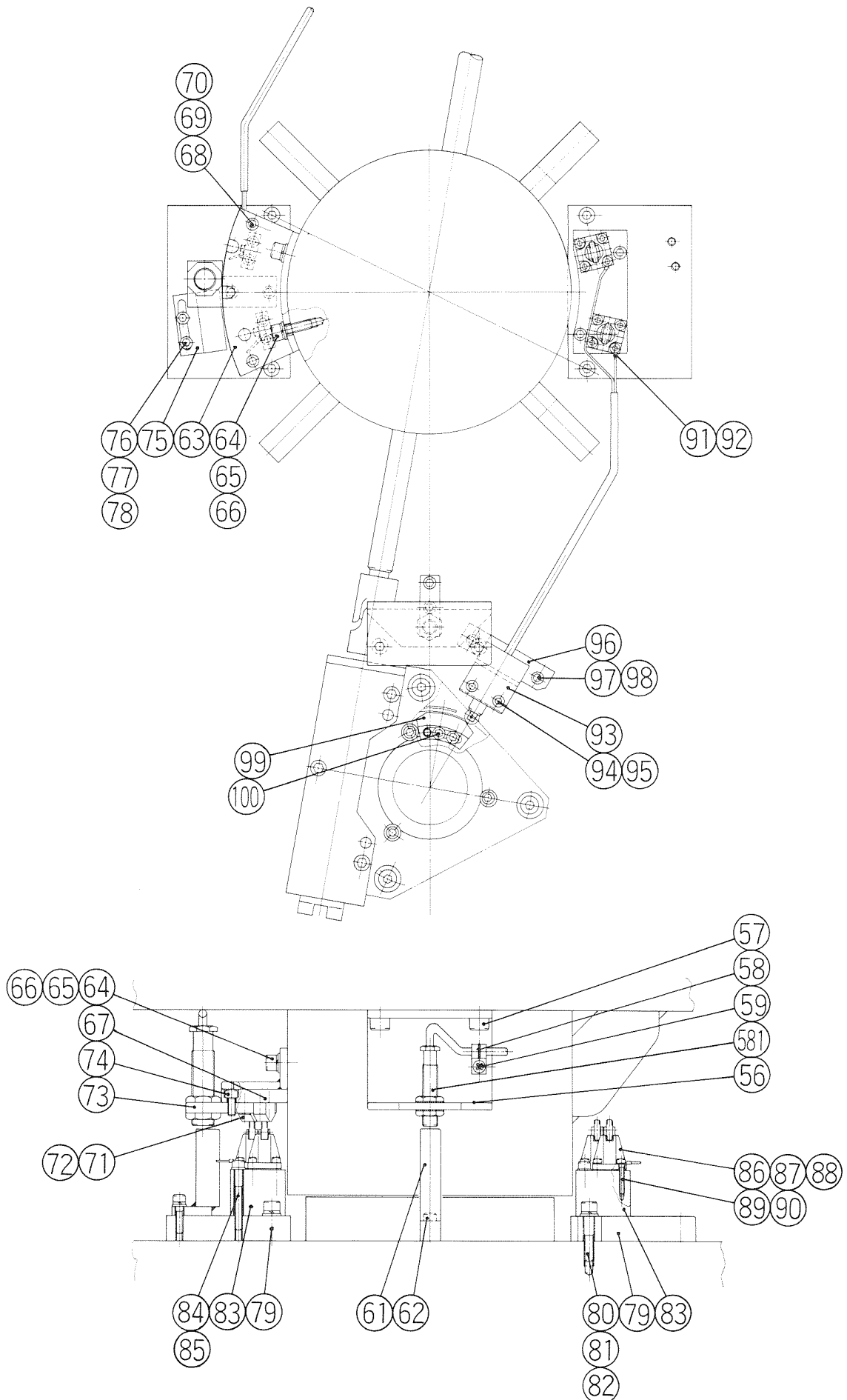
Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

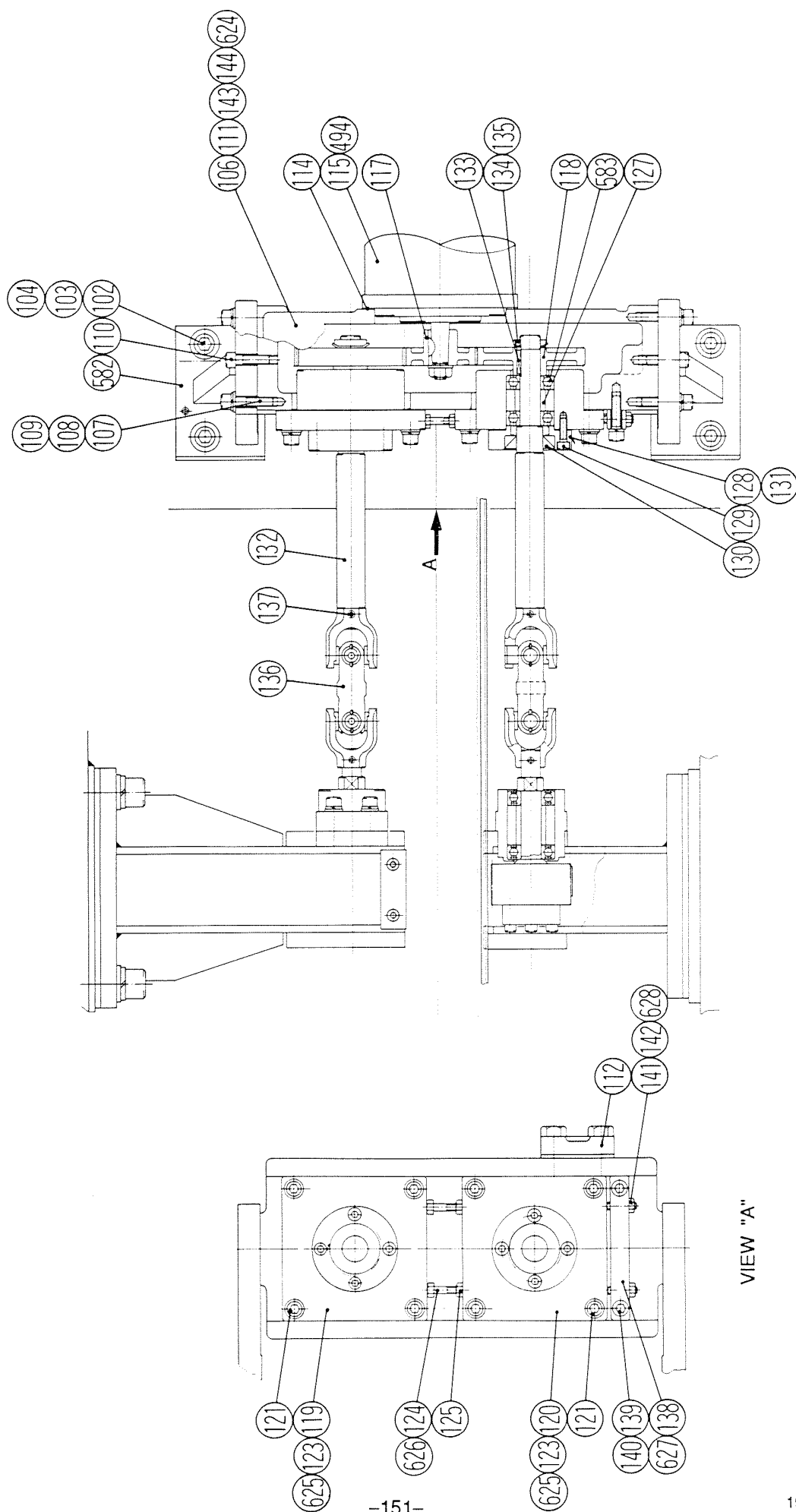
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
56	74529002	Proximity switch bracket	822351a	1	1	
57	44028704	Cap screw	M10 x 20	2	2	
58	74520101 (44027304)	Saddle	CH-6	1	1	
59	10325312	Pan head machine screw	M6 x 10	1	1	
61	74529009	C-axis confirming dog	822352	2	2	
62	75168508	Cap screw	M6 x 25	4	4	
63	74529010	Dog bracket	822226	1	1	
64	21415514	Cap screw	M8 x 25	2	2	
65	10001521	Spring washer	M8	2	2	
66	74300511	Washer	M8	2	2	
67	74529011	Dog base (upper)	828988	1	1	
68	75168508	Cap screw	M6 x 25	2	2	
69	44027930	Washer	M6	2	2	
70	10310352	Nut	M6	2	2	
71	74529012 (74313503)	Dog (B)	829437a	2	2	
72	75168220	Cap screw	M5 x 15	4	4	
73	74529003	Proximity switch bracket	828989a	1	1	
74	74300604	Cap screw	M6 x 15	2	2	
75	74529013	Turret origin dog	822341a	1	1	
76	75168508	Cap screw	M6 x 25	2	2	
77	44027928	Spring washer	M6	2	2	
78	44027930	Washer	M6	2	2	
79	74529023	Middle base	828996b	2	2	
80	74304909	Cap screw	M8 x 40	4	4	
81	10001521	Spring washer	M8	4	4	
82	74300511	Washer	M8	4	4	
83	74529024	Head base	828994b	2	2	
84	74314409	Cap screw	M6 x 50	4	4	
85	44027930	Washer	M6	4	4	
86	74529102 (74313707)	Copper plate	822235	4	4	
87	74529103 (74313701)	Spring	822231a	4	4	
88	74529030 (74312507)	Head	7932020 (for 6WPH200-1)	4	4	
89	74314402	Cap screw	M4 x 25	16	16	
90	44027327	Spring washer	M4	16	16	
91	74529120	Lug terminal	0.75 mm ² ϕ 4	6	6	
92	74314401	Cap screw	M4 x 10	2	2	
93	74529119	Limit switch	14CE2-1	2	2	
94	74314404	Cap screw	M5 x 20	4	4	
95	13239613	Nut	M5	4	4	
96	74529108	Switch bracket	828993a	2	2	

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32
 Auto-index (1-1/4")
 From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
102	74529210 (74306023)	Washer	827014b	4	4	
103	74304917	Cap screw	M12 x 40	4	4	
104	44028619	Spring washer	M12	4	4	
106	74529215	Gear box	821958c	1	1	~ C67737 ~ C57988
107	38020507	Cap screw	M8 x 35	4	4	
108	10001521	Spring washer	M8	4	4	
109	74300511	Washer	M8	4	4	
110	74302818	Cap screw	M8 x 30	2	2	
111	21221006	Spring pin	Φ6 x 28	1	1	
112	74529216 (74312413)	Oil level gauge	7931002	1	1	
114	74529217 (74058990)	Motor packing	822378	1	1	
115	74302818	Cap screw	M8 x 30	4	4	
117	74529222 (74313713)	Drive gear	822365	1	1	
118	74529223 (74313714)	Driven gear	822366	2	2	
119	74529229 (74313518)	Bearing holder (A)	822367a	1	1	~ C67737 ~ C57988
120	74529230 (74313519)	Bearing holder (B)	822368a	1	1	~ C67737 ~ C57988
121	74302818	Cap screw	M8 x 30	8	8	
123	74529302 (74313717)	Holder shim	822369a	2	2	
124	74314514	Bolt	M6 x 35	2	2	~ C67737 ~ C57988
125	10310352	Nut	M6	2	2	
127	74529309 (74313720)	Inner ring collar	822371	2	2	
128	74529310 (74312631)	Bearing retainer	822372c	2	2	c: June '89 ~
129	74302815	Cap screw	M6 x 20	8	8	
130	74529409	Oil seal	AC1148A0	2	2	
131	74529303	Shim	822373	2	2	
132	74529315	Drive shaft (B)	821953a	2	—	a: July '89 ~
132	74529316	Drive shaft (B)	821954	—	2	
133	74529416	Key	5 x 5 x 19	2	2	
134	74529414	Crown nut	AN03	2	2	
135	74529415	Crown washer	AW03	2	2	
136	74529322	Double joint	7932018b	2	2	
137	74314913	Spring pin	Φ6 x 22	4	4	
138	74529205 (74313723)	Holder stopper	822374	1	1	~ C67737 ~ C57988
139	74302818	Cap screw	M8 x 30	2	2	
140	10001521	Spring washer	M8	2	2	
141	10364041	Set screw (flat end)	M6 x 25	2	2	~ C67737 ~ C57988
142	10310352	Nut	M6	2	2	~ C67737 ~ C57988
143	74523301	Plug	PT 3/8	1	1	~ C67737 ~ C57988
144	74523302	Plug	PT 1/4	1	1	~ C67737 ~ C57988
494	74529422 (74315111)	Seal washer	SM-8	4	4	

Unit No. 32

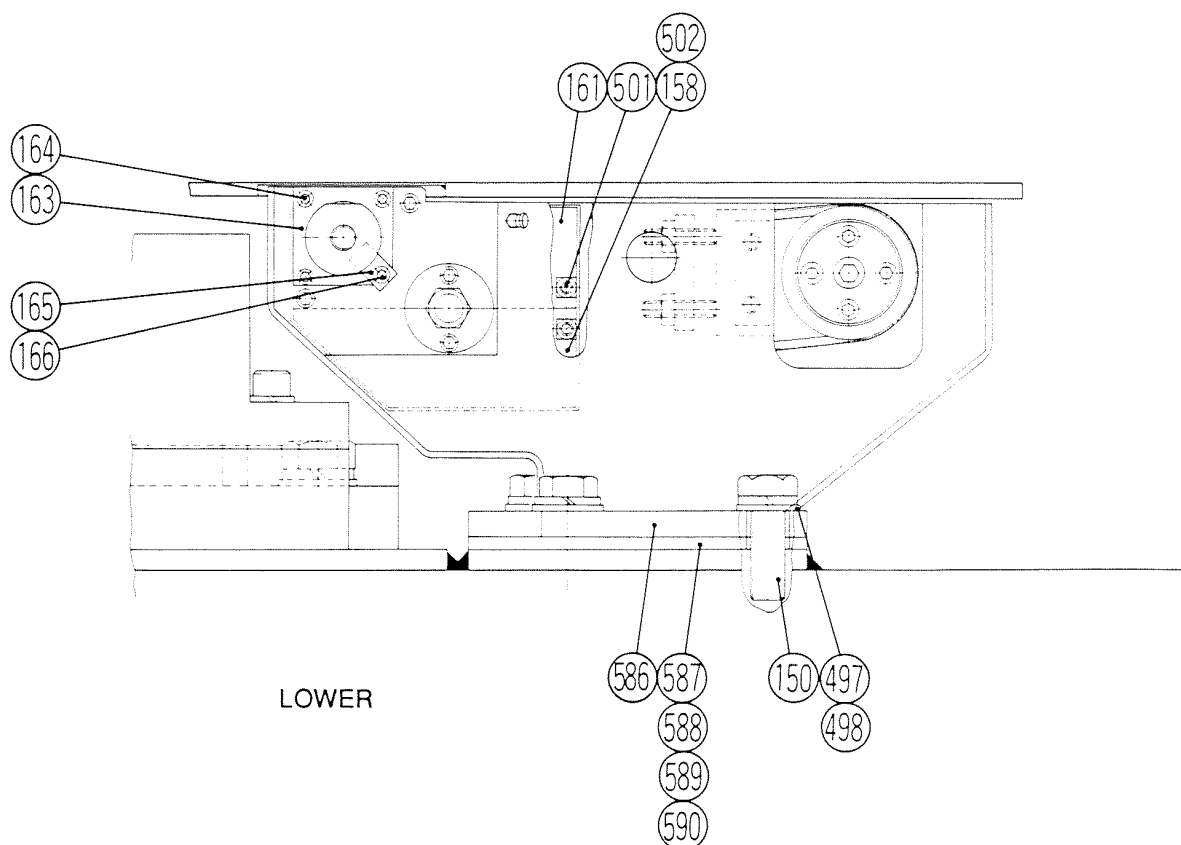
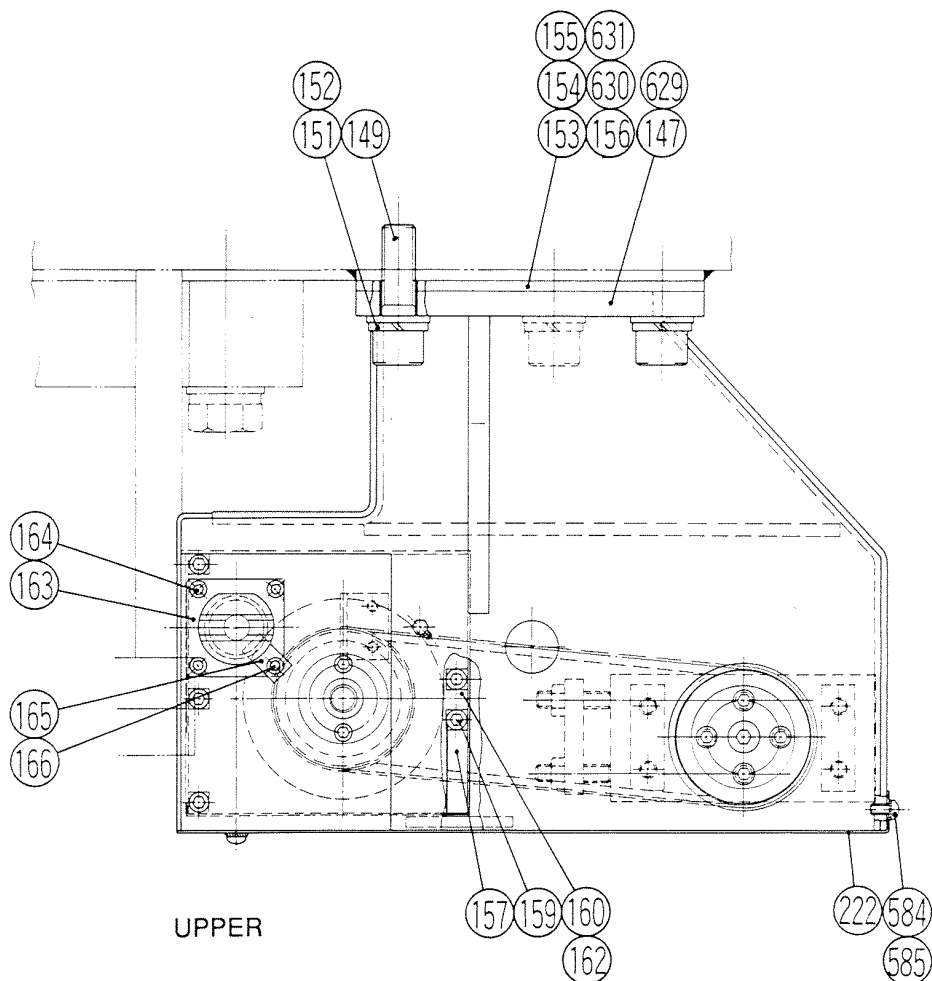
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

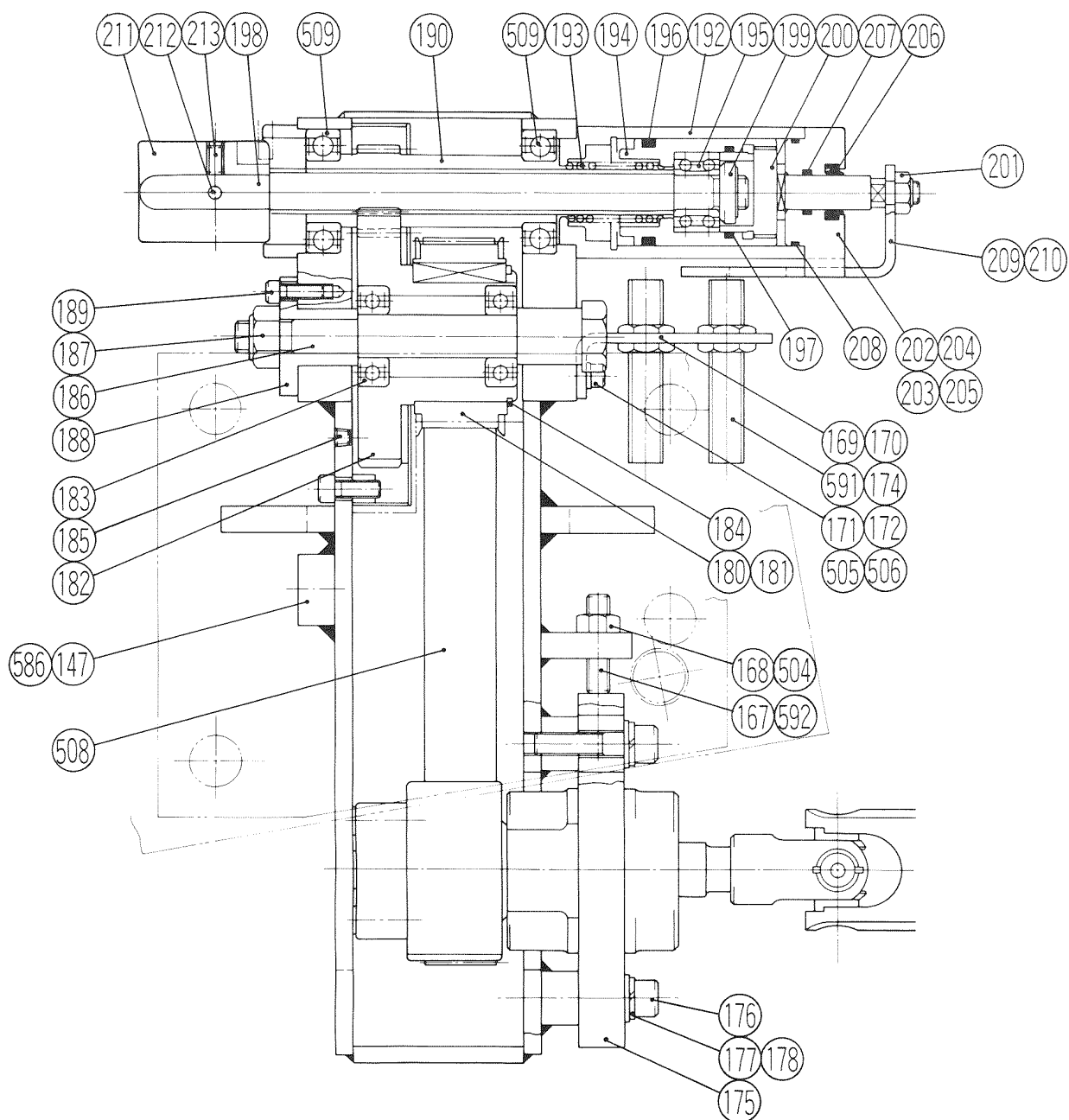
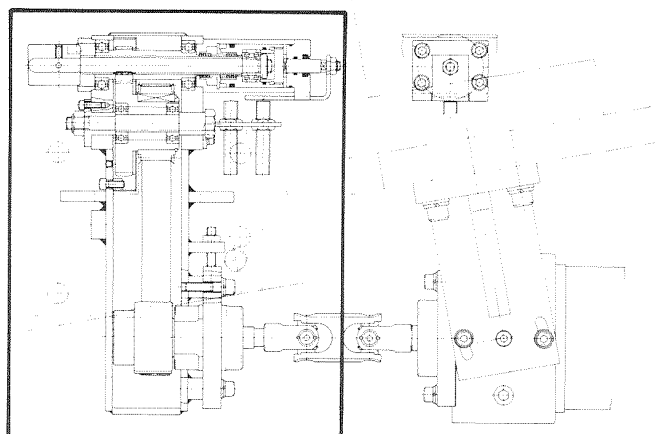
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
147	74529502	Bracket (upper)	821821c	1	1	~ C67737 ~ C57988
149	74314419	Cap screw	M16 x 50	4	4	
150	52000649	Bolt	M16 x 50	4	4	
151	74302902	Spring washer	M16	4	4	
152	74314206	Washer	M16	4	4	
153	74529509 (74312923)	Spacer (B)	821889	1	1	
154	74529508 (74312922)	Spacer (A)	821888	1	1	~ C67737 ~ C57988
155	74529510 (74313420)	Shim (A)	821825a	1	1	~ C67737 ~ C57988
156	74529511 (74313421)	Shim (B)	821826a	1	1	
157	74529518 (74313414)	Gear cover (A)	821822a	1	1	a: July '89 ~
158	74529519 (74313416)	Gear cover (A)	821832a	1	1	a: July '89 ~
159	74300604	Cap screw	M6 x 15	2	2	
160	74529520 (74313415)	Gear cover (B)	821823a	1	1	a: July '89 ~
161	74529521 (74313417)	Gear cover (B)	821833a	1	1	a: July '89 ~
162	74300604	Cap screw	M6 x 15	2	2	
163	74529528 (74058550)	Bearing retainer	822410b	2	2	
164	74535225	Cap screw	M5 x 25 (UNBRAKO)	6	6	
165	74529529 (74058996)	Key	822411b	2	2	
166	74535226	Cap screw	M5 x 30 (UNBRAKO)	2	2	
222	74312603	Cover (A)	802214	1	1	
497	74302902	Spring washer	M16	4	4	
498	74314206	Washer	M16	4	4	
501	74300604	Cap screw	M6 x 15	2	2	
502	74300604	Cap screw	M6 x 15	2	2	
584	74305017	Pan head machine screw	M5 x 10	4	4	
585	74300526	Toothed lock washer	M5	4	4	
586	74313413	Bracket (lower)	811587a	1	1	C67738 ~ C57989 ~
587	74312925	Spacer (A)	6013097	1	1	C67738 ~ C57989 ~
588	74313423	Shim (A)	6013098	1	1	C67738 ~ C57989 ~
589	74312927	Spacer (B)	811582	1	1	C67738 ~ C57989 ~
590	74313425	Shim (B)	811583	1	1	C67738 ~ C57989 ~
629	74313407	Bracket (upper)	811586c	1	1	C67738 ~ C57989 ~
630	74312926	Spacer (A)	811584	1	1	C67738 ~ C57989 ~
631	74313424	Shim (A)	811585	1	1	C67738 ~ C57989 ~

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

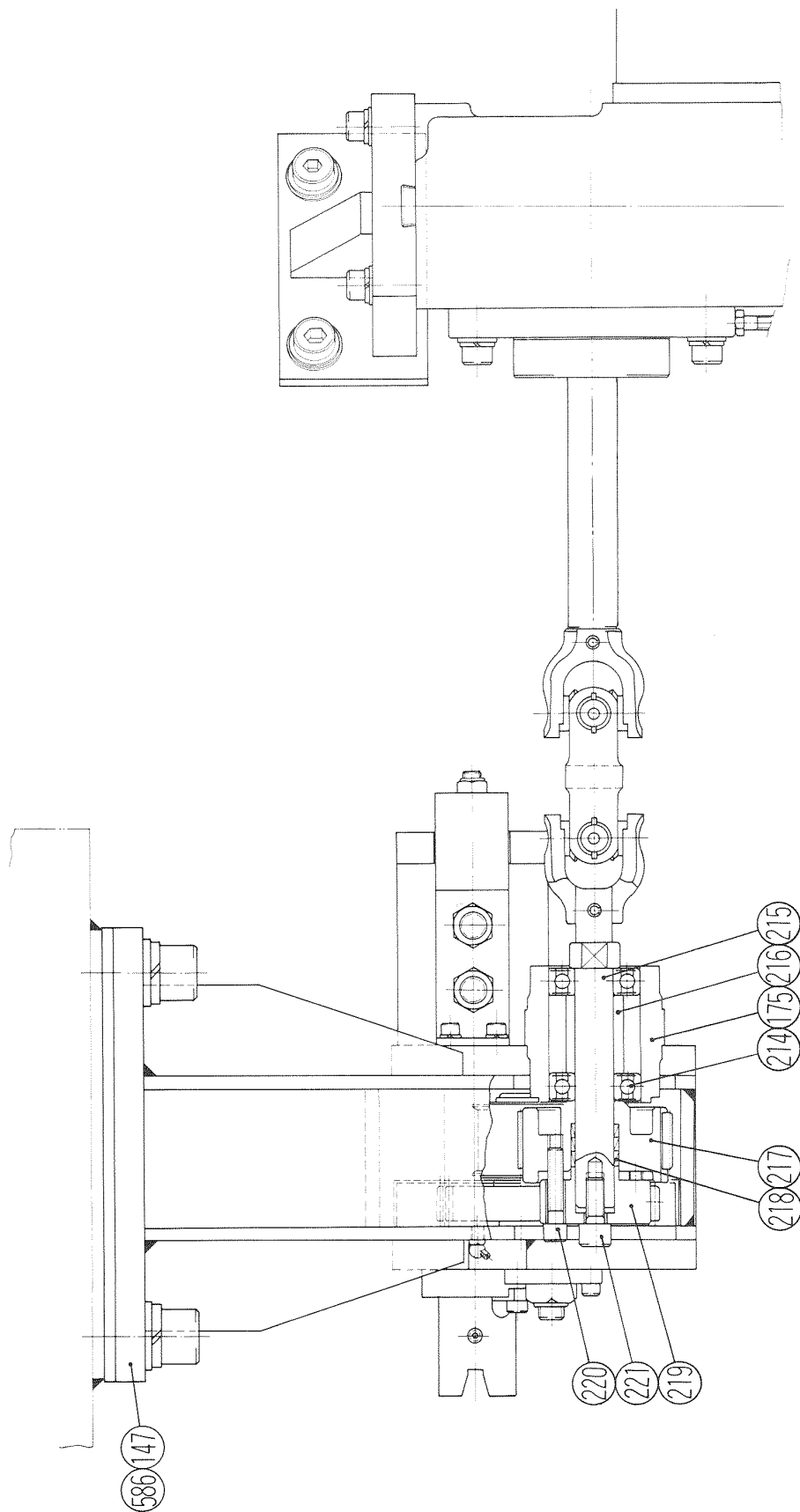
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
167	74314812	Set screw (flat end)	M8 x 35 (for upper)	1	1	Q'ty 2 → 1: June '89 ~
168	10001517	Nut	M8 (for upper)	1	1	Q'ty 2 → 1: June '89 ~
169	74529602 (74312807)	Proximity switch bracket (upper)	821829	1	1	
170	74529603 (74312804)	Proximity switch bracket (lower)	802252	1	1	
171	75168220	Cap screw	M5 x 15	2	2	
172	44027927	Spring washer	M5 (for upper)	2	2	
174	44028618	Washer	M12 (for upper)	8	8	
175	74529609	Bearing holder	821957b	2	2	
176	38020507	Cap screw	M8 x 35	8	8	
177	10001521	Spring washer	M8	8	8	
178	74300511	Washer	M8	8	8	
180	74529614 (74313730)	Driven pulley	822390	2	2	
181	74529902	Key	7 x 7 x 32 type 1 (double round end)	2	2	
182	74529628 (74313808)	Middle gear	822391b	2	2	
183	74529802 (61163323)	Ball bearing	#6202ZZ	4	4	
184	74529908 (23134517)	Snap ring	STW-45	2	2	
185	74523304	Plug	PT 1/8"	2	2	
186	74529622 (74313601)	Bearing shaft	821959	2	2	
187	74529825	U-nut	M12	2	2	
188	74529623 (74313604)	Shaft support	821960	2	2	
189	75168220	Cap screw	M5 x 15	4	4	
190	74529629 (74058928)	Driven middle gear	822491b	2	2	
192	74529702 (74058541)	P.P. cylinder	822079a	2	2	
193	74529703 (74313619)	P.P. spring	822080	2	2	
194	74529704 (74058552)	P.P. piston	822081	2	2	
195	74529803 (74058967)	Ball bearing	#7001 DB	2	2	
196	74529810 (58352809)	O-ring	P-32	2	2	
197	74529812 (36181565)	O-ring	S-28	2	2	
198	74529709	P.P. spline	822077c	2	2	
199	74529825	Fine U-nut	M12	2	2	
200	74529710 (74058542)	P.P. plunger	822083	2	2	
201	74529826	U-nut	M8	2	2	
202	74529714 (74313628)	P.P. cylinder cover (lower)	822084b	1	1	
203	74529715 (74313629)	P.P. cylinder cover (upper)	822085c	1	1	
204	10310377	Cap screw	M8 x 100	4	4	
205	44235241	Cap screw	M8 x 20	4	4	
206	74529819	Scraper	SDR-12204	2	2	
207	74529811 (36110514)	O-ring	P-12	2	2	
208	74529813	O-ring	S-25	2	2	
209	74529721 (74313501)	Dog (upper)	821828a	1	1	

Unit No. **32**
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32
 Auto-index (1-1/4") From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

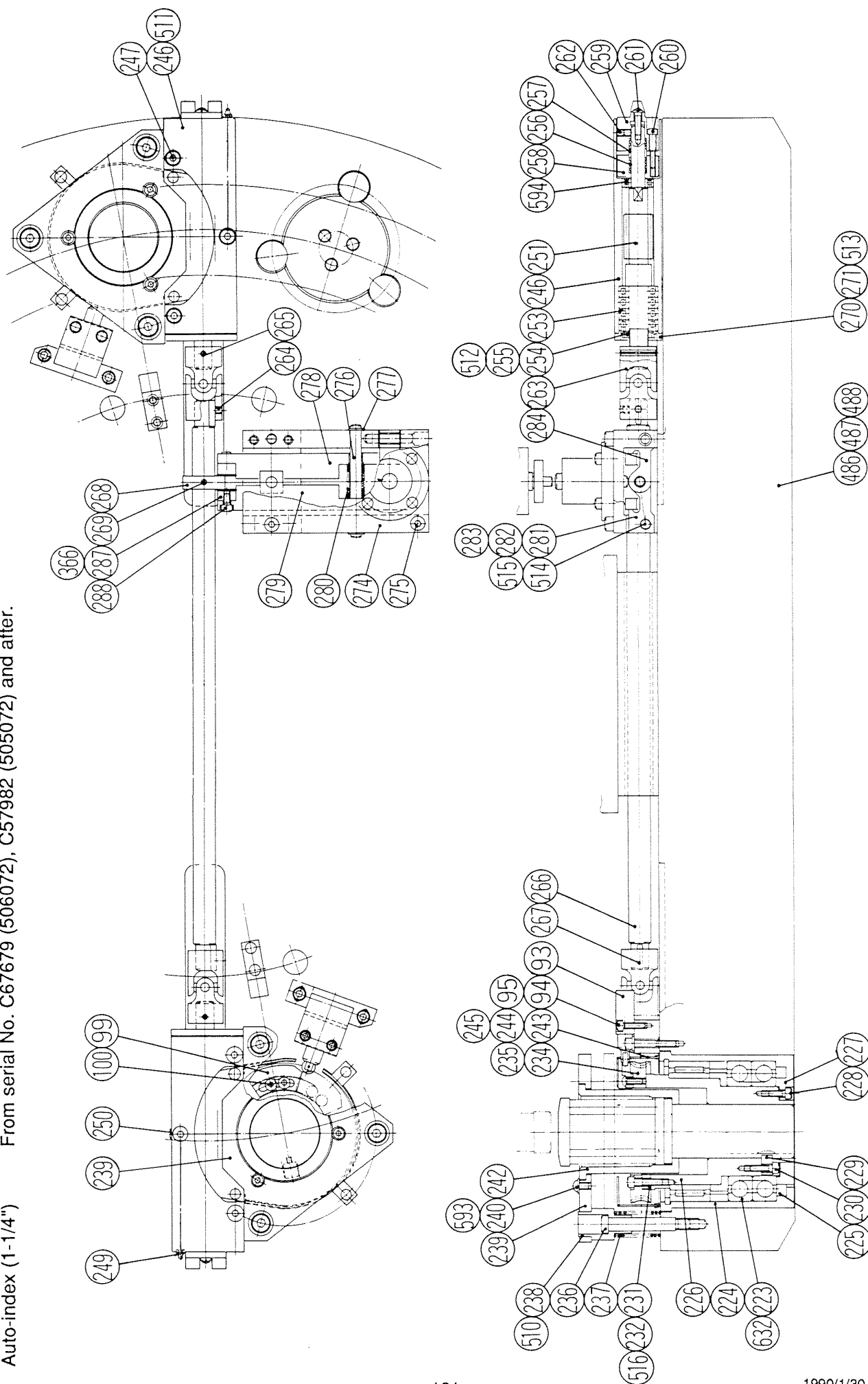
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32

Auto-index (1-1/4") From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
223	74530003 (74313903)	Upper bearing unit	822414	2	2	~ Feb. '89
224	74530008 (74313906)	Bearing holder (upper)	822415c	2	2	c: Feb. '89 ~
225	74530402	Oil seal	AG3982E0 $\phi 115 \times \phi 95 \times 9$	2	2	
226	74530009 (74313911)	Guide holder	822418f	2	2	f: Feb. '89 ~
227	74530016 (74349303)	Seal retainer	822419a	2	2	
228	74535227	Cap screw	M6 x 15 (UNBRAKO)	8	8	
229	74530017 (74058997)	Guide key	822420	2	2	
230	74535108	Cap screw	M6 x 20 (UNBRAKO)	2	2	
231	74530018 (74313917)	Wheel key	822421a	2	2	
232	74530019 (74058998)	Wheel key (with step)	822423	1	1	
234	74530025	Worm wheel (upper)	822422d	2	2	
235	74535109	Cap screw	M6 x 25 (UNBRAKO)	8	8	
236	74530102	Shoulder screw	5501017c	6	6	
237	74530106 (74165232)	Lifter spring	827241a	6	6	
238	74530107 (74058932)	Lifter collar	822424a	6	6	
239	74530113 (74313402)	Ring holder	821815b	2	2	
240	74535401	Button head socket screw	M6 x 10	6	6	
242	74530108	Lifter ring	822426d	2	2	
243	74530031 (74313404)	Wheel cover	821816b	2	2	
244	74300604	Cap screw	M6 x 15	4	4	
245	74305017	Pan head machine screw	M5 x 10	4	4	
246	74530026 (74312609)	Worm housing (upper)	802232e	2	2	
247	74314410	Cap screw	M8 x 45	6	6	
249	74530427	Grease nipple	A-M6	2	2	
250	10322119	Set screw	M6 x 6	2	2	
251	74530120 (74058926)	Worm shaft	802234d	4	4	
253	74530125	Ball bearing	7932023a	4	4	
254	74529414	Crown nut	AN03	4	4	
255	74529415	Crown washer	AW03	4	4	
256	74529821	Spinn ring	RfN8006 $\phi 12 \times \phi 15 \times 4.5^b$	20	20	
257	74530131 (74058549)	Spacer	822436b	4	4	
258	74530202	Spann ring holder	822437b	4	4	
259	74529727 (74058930)	Point shaft (driven side)	822439b	4	4	
260	74314406	Cap screw	M5 x 30	16	16	
261	74314603	Button head socket screw	M6 x 20	4	4	
262	74534623	Set screw (knurl end)	M6 x 6 (UNBRAKO)	8	8	
263	74529323 (74058995)	Universal joint	802236b	4	4	
264	74534623	Set screw (knurl end)	M6 x 6 (UNBRAKO)	16	16	
265	74314915	Spring pin	$\phi 6 \times 30$	4	4	
266	74530207 (74312617)	Center shaft	802237b	2	2	

Unit No. 32

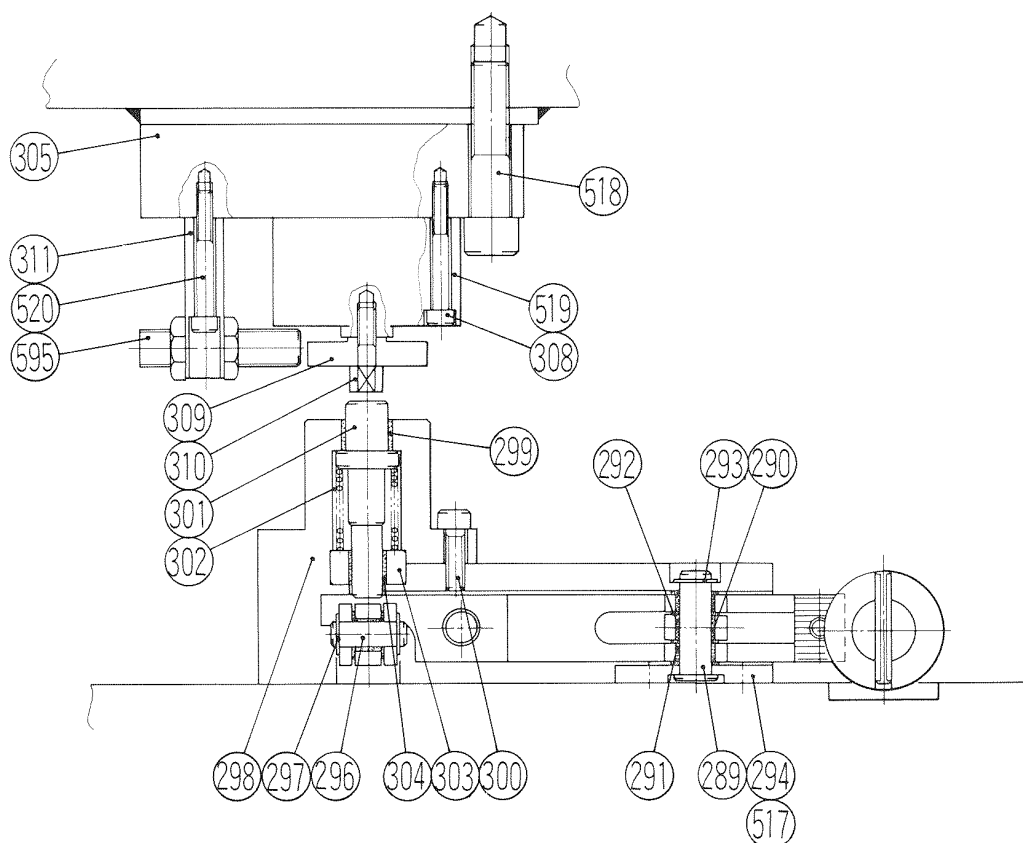
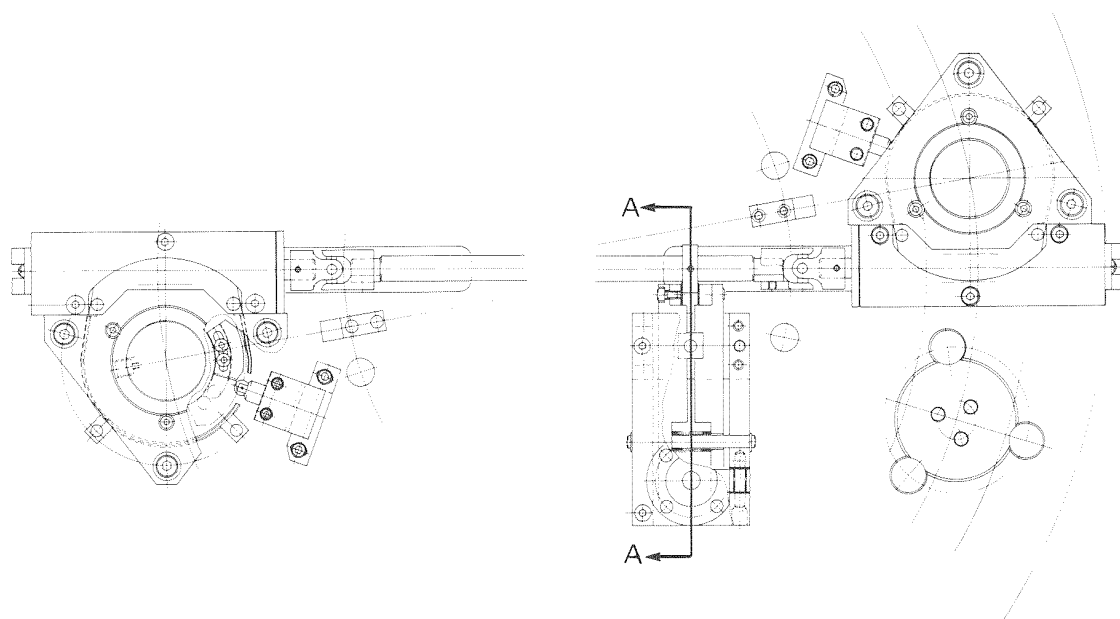
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



SECTION "A - A"

Unit No. 32

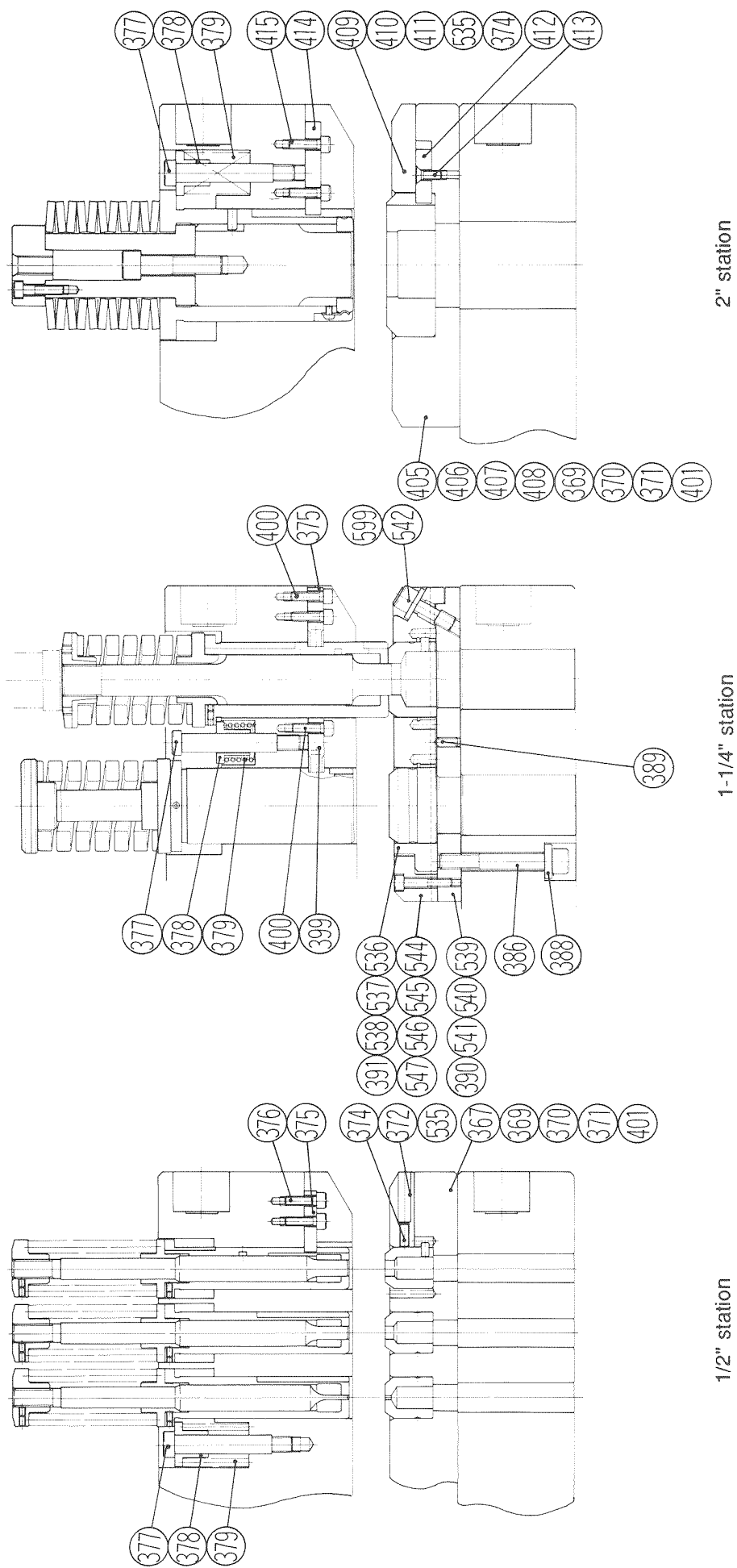
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
272	74530427	Grease nipple	A-M6	2	2	
314	74530617	Bearing holder (lower)	822306d	2	2	
315	74530509 (74165309)	Washer	827013b	14	14	
316	74304918 (36113119)	Cap screw	M10 x 35	14	14	
317	10001520	Spring washer	M10	14	14	
318	74530618 (74348906)	Ball bearing	7932017	2	2	
319	74530427	Grease nipple	A-M6	2	2	
320	74530625 (74058914)	Support	821817a	2	2	
321	74530917 (74058931)	Crown nut	822308	2	2	
322	74530918	Crown washer	AW10	2	2	
323	74530630	Worm wheel (lower)	802244d	2	2	
324	74530703 (74349016)	Die holder	802245b	2	2	
325	74302817 (73157630)	Cap screw	M8 x 15	4	4	
326	74300606 (44235241)	Cap screw	M8 x 20	4	4	
328	74530632 (74058999)	Wheel key (with step)	822453	1	1	
329	74530631 (74058553)	Worm housing (lower)	802246e	2	2	
330	74530510 (74314204)	Washer	827367	6	6	
331	74309806	Cap screw	M8 x 70	6	6	
332	74530802 (74312718)	Cover plate	802248a	2	2	
333	74535307	Countersink head socket screw	M8 x 15	4	4	
334	74530808 (74312721)	Dust seal	802249	2	2	
335	74530815	Brake holder (lower)	822461f	1	1	f: July '89 ~
336	74530510 (74314204)	Washer	827367	4	4	
337	74309806	Cap screw	M8 x 70	4	4	
338	74530504 (74314001)	Arm plate (lower)	822427a	1	1	
341	74530910	Bushing	ML1010	1	1	
344	74530531 (74313703)	Spring	822482	1	1	
347	74300604	Cap screw	M6 x 15	4	4	~ July '89
350	74530927 (54117433)	Free stroke bearing	C-3S	4	4	
351	74530931	Fastener pin	D- ϕ 10 x 30	2	2	
352	74302815	Cap screw	M6 x 20	2	2	
353	74530729 (74312604)	Cover	807084b	2	2	
354	74300604	Cap screw	M6 x 15	6	6	
355	74530714 (74314301)	Die spacer support	827388b (66, 58 stations)	2	2	
356	74530715	Die spacer support	807083c (44 stations)	2	2	
357	74309806	Cap screw	M8 x 70	4	4	
358	74530510 (74314204)	Washer	827367	4	4	
360	74530510 (74314204)	Washer	827367 (44 stations)	4	4	
361	74309806	Cap screw	M8 x 70 (44 stations)	4	4	
362	74530927 (54117433)	Free stroke bearing	C-3S	2	2	

Unit No. 32

Auto-index (1-1/4") From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **32**

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
				66st, 58st, 44st	
367	74514101 (74164801)	1/2" die holder	827106c	14 , 12 , 6	Please order together with index No. 372.
369	74306323	Cap screw	M10 x 75	84 , 76 , 52	
370	10001520	Spring washer	M10	84 , 76 , 52	
371	74514114 (74165309)	Washer	827013b	84 , 76 , 52	
372	74514101 (74164801)	1/2" die spacer	827107b	14 , 12 , 6	Please order together with index No. 367.
374	74306406	Set screw (flat end)	M6 x 14	20 , 20 , 14	
375	74514120	1/2", 1-1/4" guide key	5501007g	22 , 18 , 14	
376	74302815	Cap screw	M6 x 20	30 , 28 , 16	
377	74514202 (74165216)	Shoulder screw	5501017c	94 , 88 , 78	
378	74514203 (74165223)	1/2", 1-1/4", 2" lifter collar	5500217b	86 , 72 , 62	
379	74514204 (74165232)	Lifter spring (B)	827241a	86 , 72 , 62	
386	74314417	Cap screw	M10 x 70	32 , 24 , 32	
388	74514114 (74165309)	Washer	827013b	32 , 24 , 32	
389	74531108	Ball plunger	BP-6-H	8 , 6 , 8	
390	10557819	Set screw (flat end)	M5 x 6	16 , 12 , 16	
391	74531109	Ball plunger	BP-8-H	44 , 36 , 28	
399	74514124 (74165117)	1-1/4" guide key	827263a	8 , 6 , 8	
400	74302815	Cap screw	M6 x 20	24 , 18 , 8	
401	74304904	Cap screw	M6 x 15	40 , 40 , 28	
405	74514103 (74164806)	2" die holder	827114g	4 , 2 , 4	Please order together with index No. 409.
406	74531003 (74165407)	2" die holder (A)	827407a	— , 2 , —	
407	74514132 (74306026)	SP spring	827018	24 , 32 , 32	Please order together with index No. 410.
408	74306414	Pan head machine screw	M4 x 8	24 , 32 , 32	
409	74514103 (74164806)	2" die spacer	827115f	4 , 2 , 4	Please order together with index No. 405.
410	74531004 (74314213)	2" die spacer (A)	827408	— , 2 , —	
411	74530927 (54117433)	Free stroke bearing	C-3S	16 , 24 , 24	
412	74514115 (74165112)	Die key	488034c	6 , 8 , 8	
413	10556016	Countersink head machine screw	M6 x 16	6 , 8 , 8	
414	74514121 (74306010)	2" guide key	5501050c	4 , 4 , 4	
415	74300611 (75168508)	Cap screw	M6 x 25	8 , 8 , 8	
535	74530932	Fastener pin	D- ϕ 8 x 25	36 , 32 , 20	
536	74531010 (74165401)	Upper die holder	827471b	8 , 6 , —	
537	74531011 (74165405)	Upper die holder	827094a	— , — , 6	
538	74531012 (74165403)	Upper die holder	827091a	— , — , 2	
539	74531018 (74165402)	Lower die holder	827472b	8 , 6 , —	
540	74531019 (74165406)	Lower die holder	827095a	— , — , 6	
541	74531020 (74165404)	Lower die holder	827092a	— , — , 2	
542	74531025 (74164940)	Corner bolt	827474a	8 , 6 , 8	
544	74531027 (74314303)	Block	827473a	8 , 6 , —	
545	74531028	Block	827096	— , — , 6	

Unit No. 32
Auto-index (1-1/4")

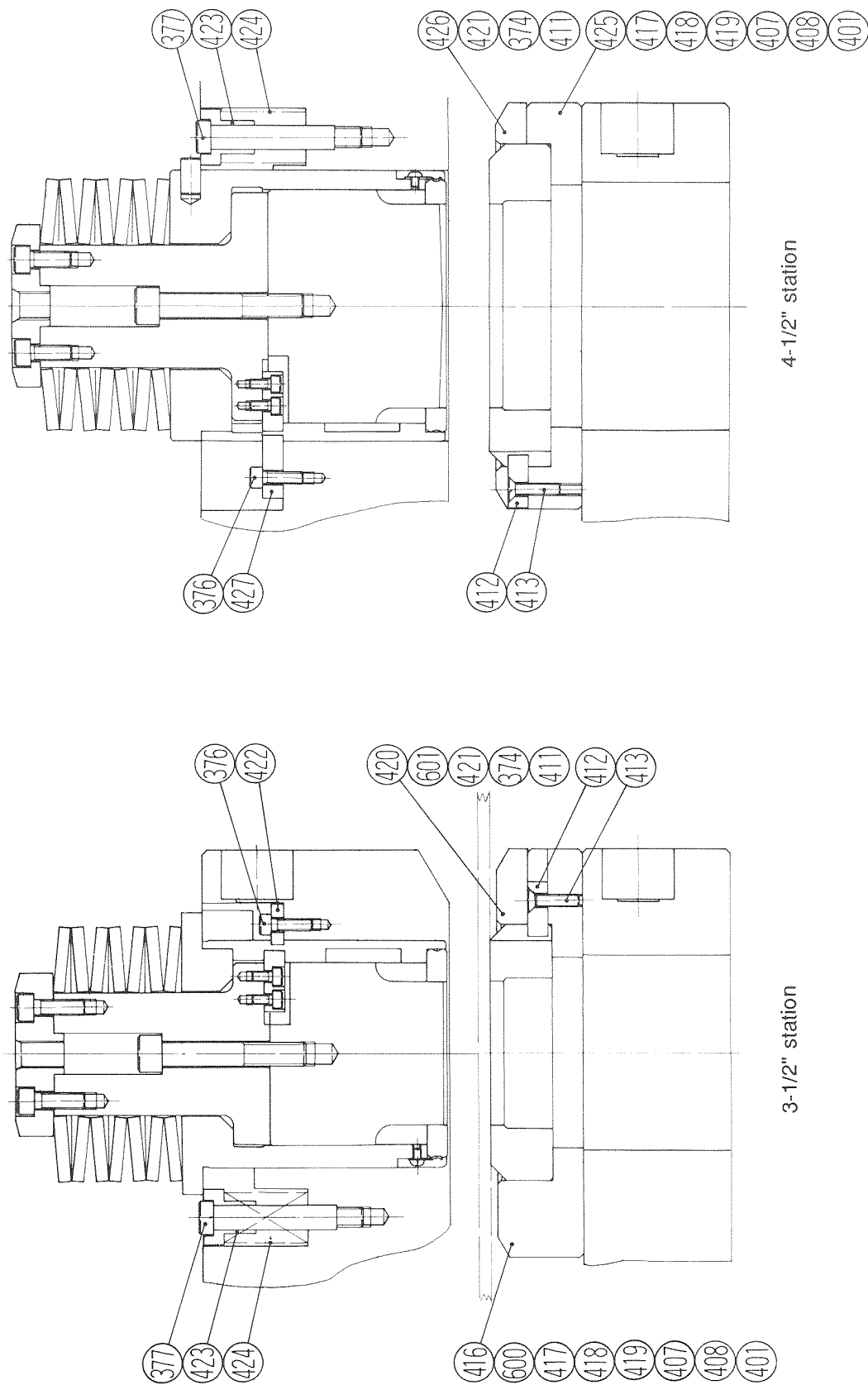
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 32

Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 32

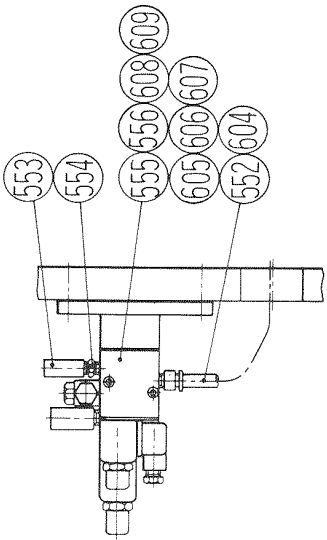
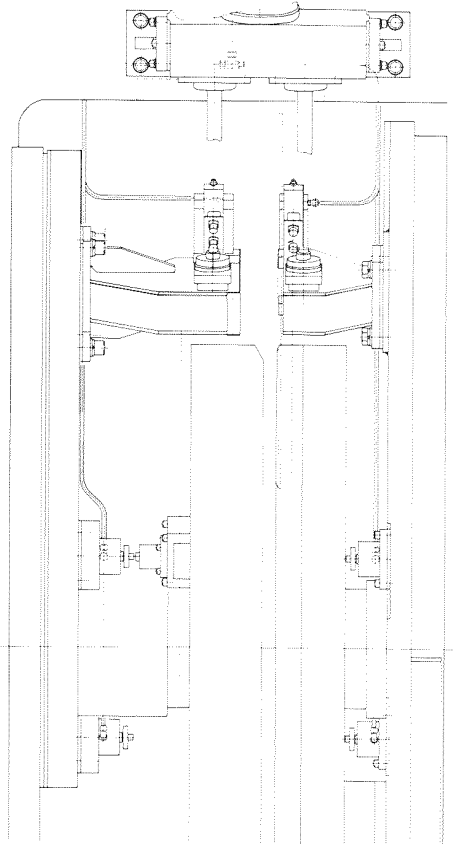
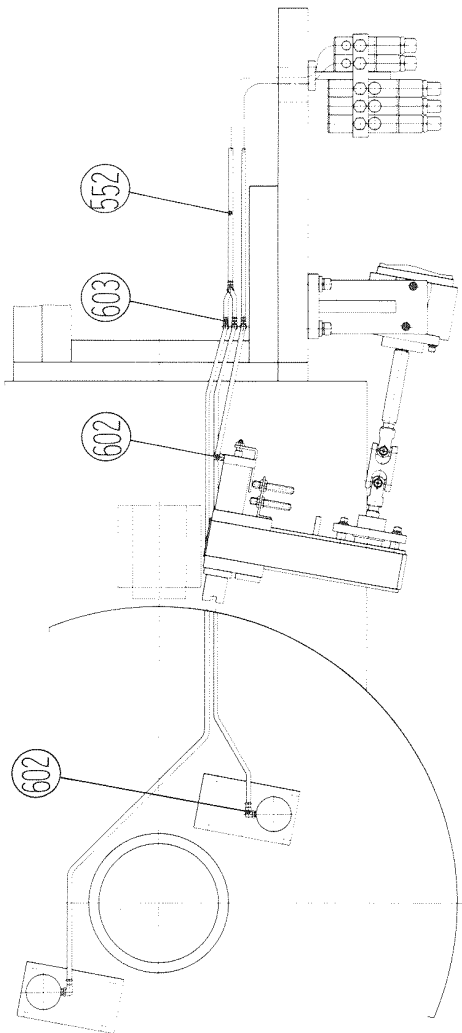
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

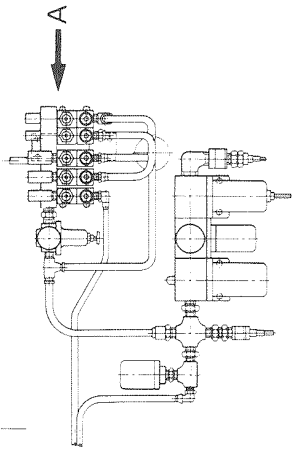
[illegible]

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.



ARROW "A"



Unit No. 32

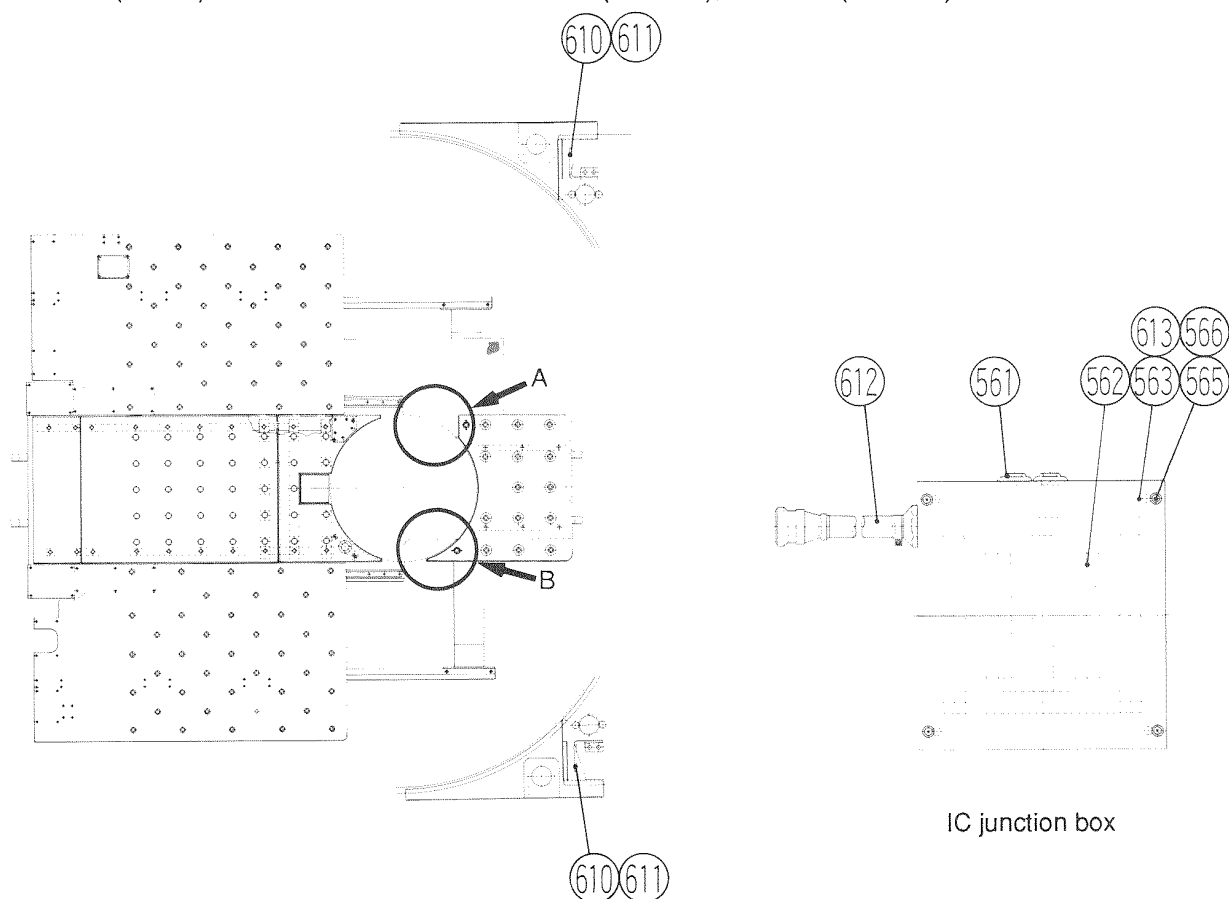
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

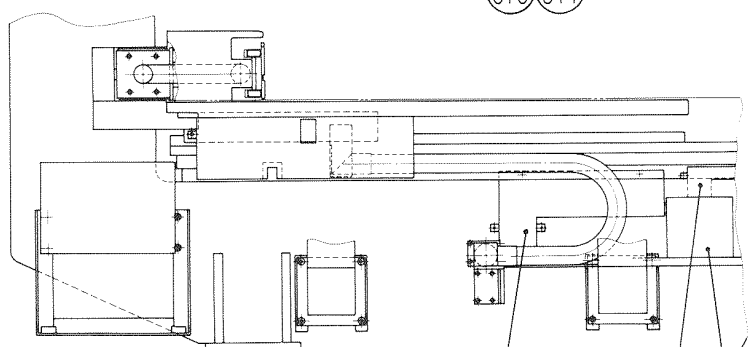
[illegible]

Unit No. 32
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

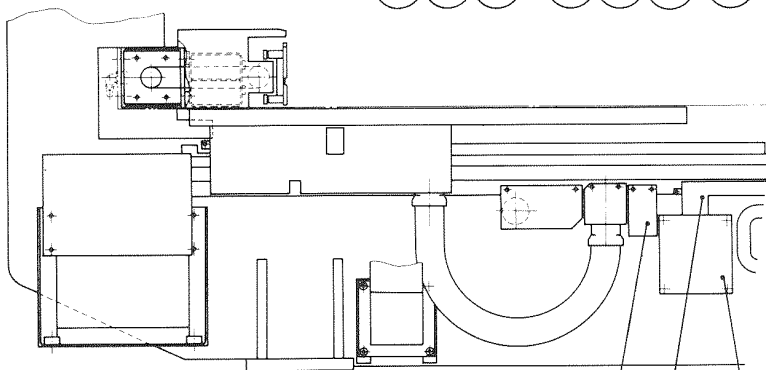


IC junction box



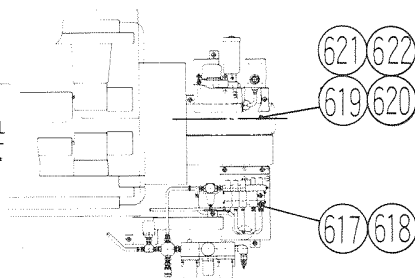
COMA-506072

616 615 614 575 574 573 567



COMA-505072

614 573 567
615 574
616 575



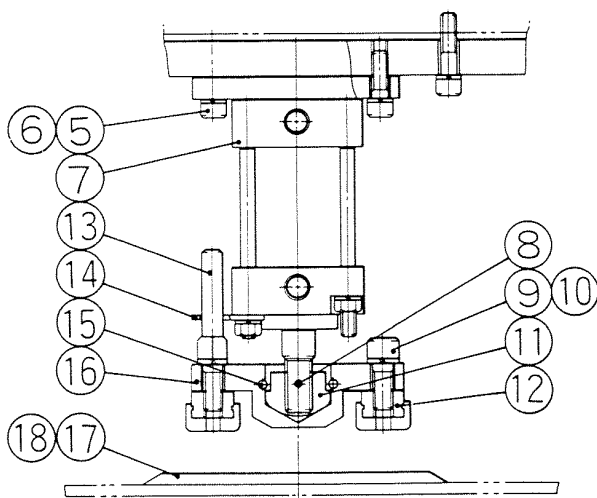
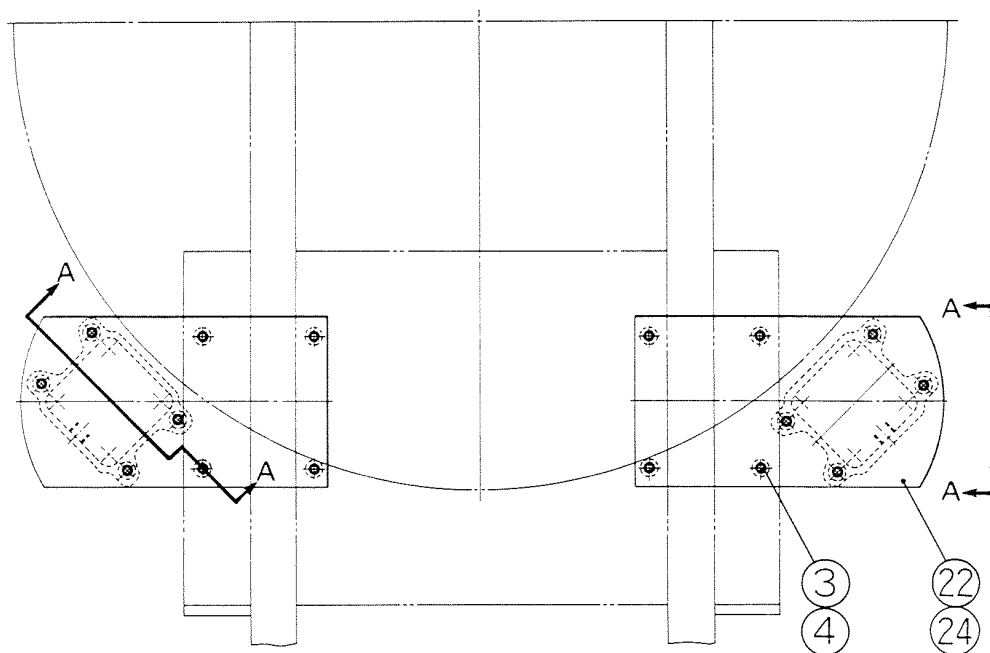
621 622
619 620

617 618

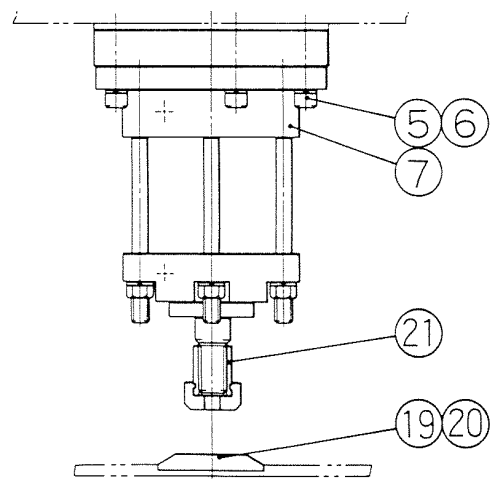
Auto-index (1-1/4")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

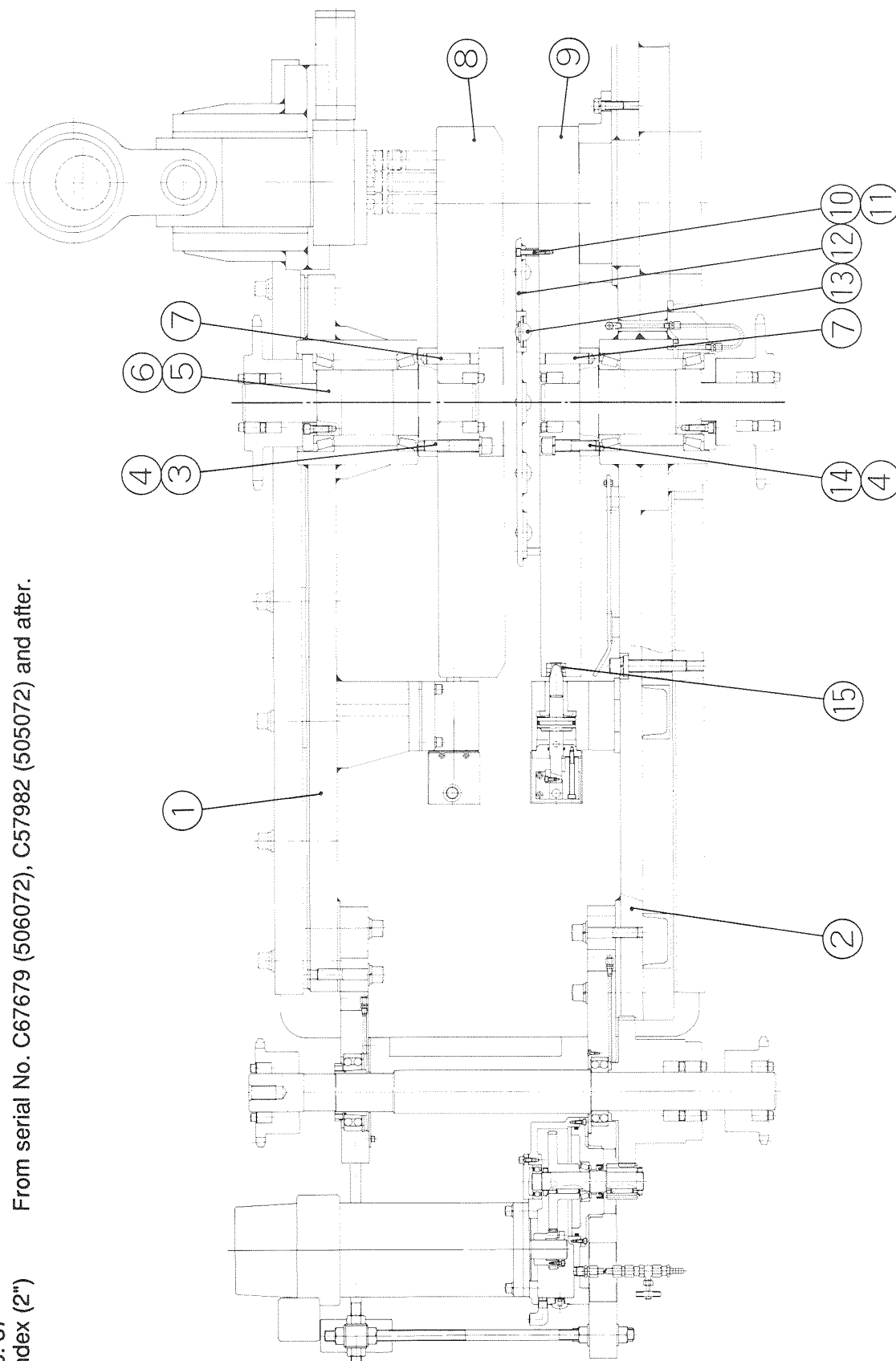


DOUBLE REPOSITIONING



SINGLE REPOSITIONING

SECTION "A - A"



Auto-index (2")

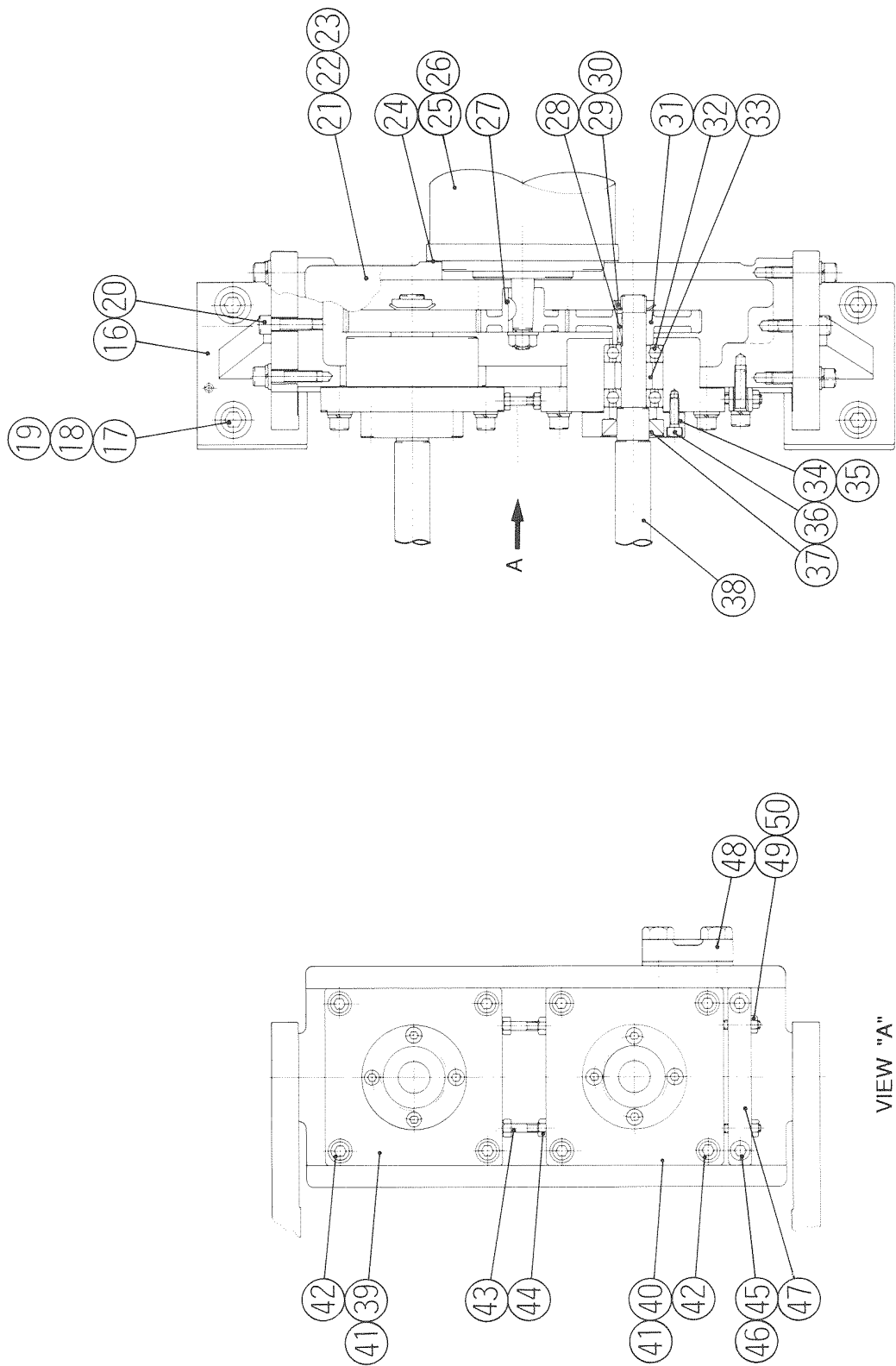
From serial No. C67679 (506072), C57982 (505072) and after.

-181-

1989/11/20

Unit No. 37
Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.



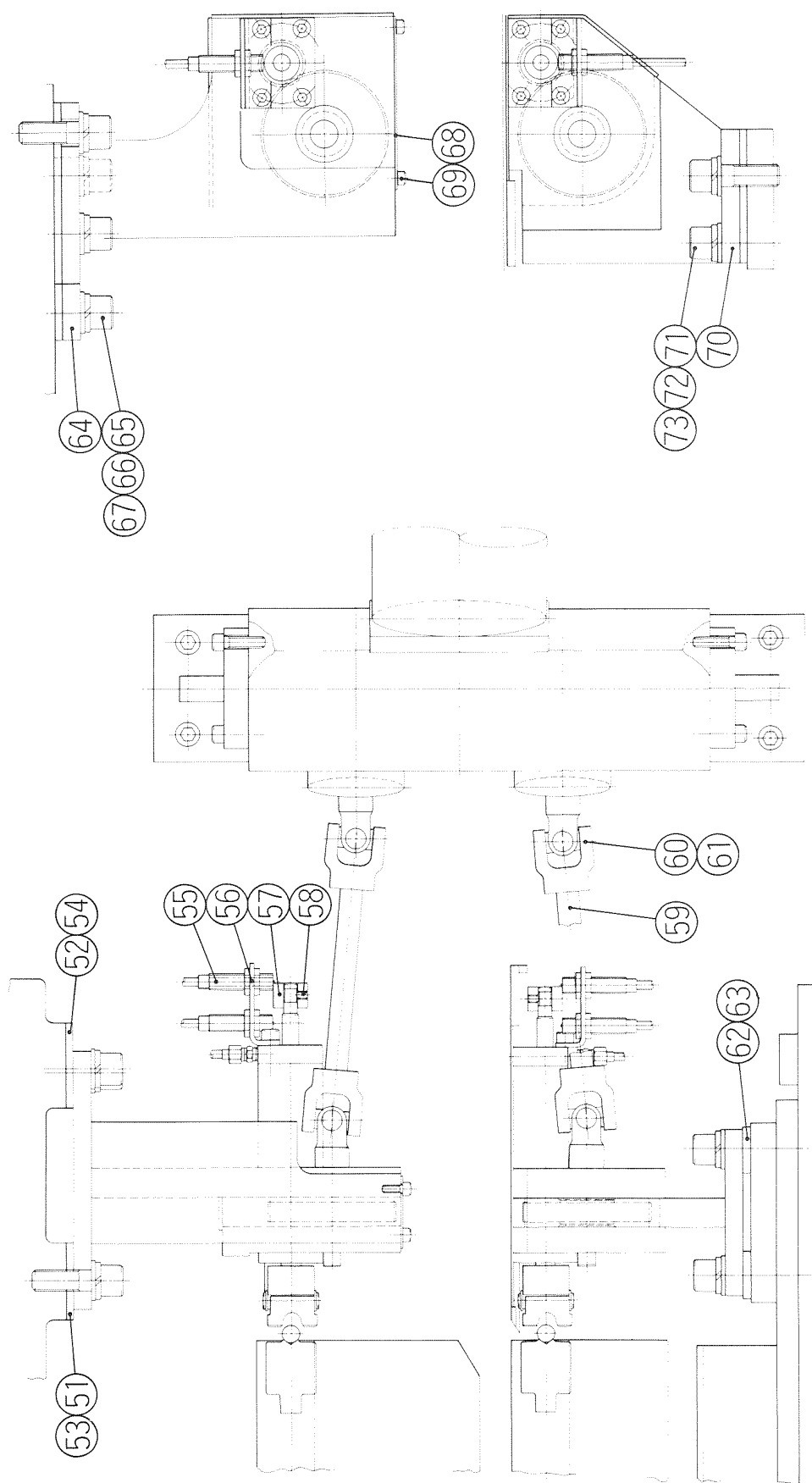
Unit No. 37

Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
16	74313612	Box holder	812359b	2	2	
17	74314203	Washer (M12)	827014b	4	4	
18	74304917	Cap screw	M12 x 40	4	4	
19	74301615 (44028619)	Spring washer	M12	4	4	
20	74302816	Cap screw	M8 x 30	4	4	
21	74313526	Gear box	812441a	1	1	a: C67738 ~ C57989 ~
22	74315115 (45552306)	Plug	PT 3/8"	1	1	~ C67737 ~ C57988
23	74314815	Plug	PT 1/4"	1	1	~ C67737 ~ C57988
24	74313726 (74058990)	Motor packing	822378	1	1	
25	74302818	Cap screw	M8 x 30	4	4	(for motor)
26	74315111	Seal washer	SM-8	4	4	(for motor)
27	74313715	Drive gear	812426	1	1	
28	74313508	Key	5 x 5 x 19	2	2	
29	74313711 (44132503)	Crown nut	AN03	2	2	
30	74314905 (44132502)	Crown washer	AW03	2	2	
31	74313716	Driven gear	812427	2	2	
32	74312426	Ball bearing	#6203 (class-5)	4	4	
33	74313720	Inner collar	822371	2	2	
34	74312631	Bearing retainer	822372c	2	2	c: June '89 ~
35	74313422 (74529303)	Shim	822373	2	2	
36	74302815	Cap screw	M6 x 20	8	8	
37	74314725	Oil seal	AC1148A0	2	2	
38	74313513	Drive shaft (B)	821955a	2	2	a: July '89 ~
39	74313521	Bearing holder (A)	812442	1	1	~ C67737 ~ C57988
40	74313522	Bearing holder (B)	812443a	2	2	a: C67738 ~ C57989 ~
41	74313718	Holder shim	812444	2	2	
42	74302818	Cap screw	M8 x 30	8	8	
43	74314454 (36322518)	Bolt	M6 x 25	2	2	
44	74300503 (10310352)	Nut	M6	2	2	
45	74302818	Cap screw	M8 x 30	2	2	
46	74300518 (10001521)	Spring washer	M8	2	2	
47	74313723	Holder stopper	822374	1	1	
48	74312413	Oil level gauge	7931002	1	1	
49	74314447 (10364041)	Set screw	M6 x 25	2	2	
50	74300503 (10310352)	Nut	M6	2	2	~ C67737 ~ C57988

Unit No. 37
 Auto-index (2")
 From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 37

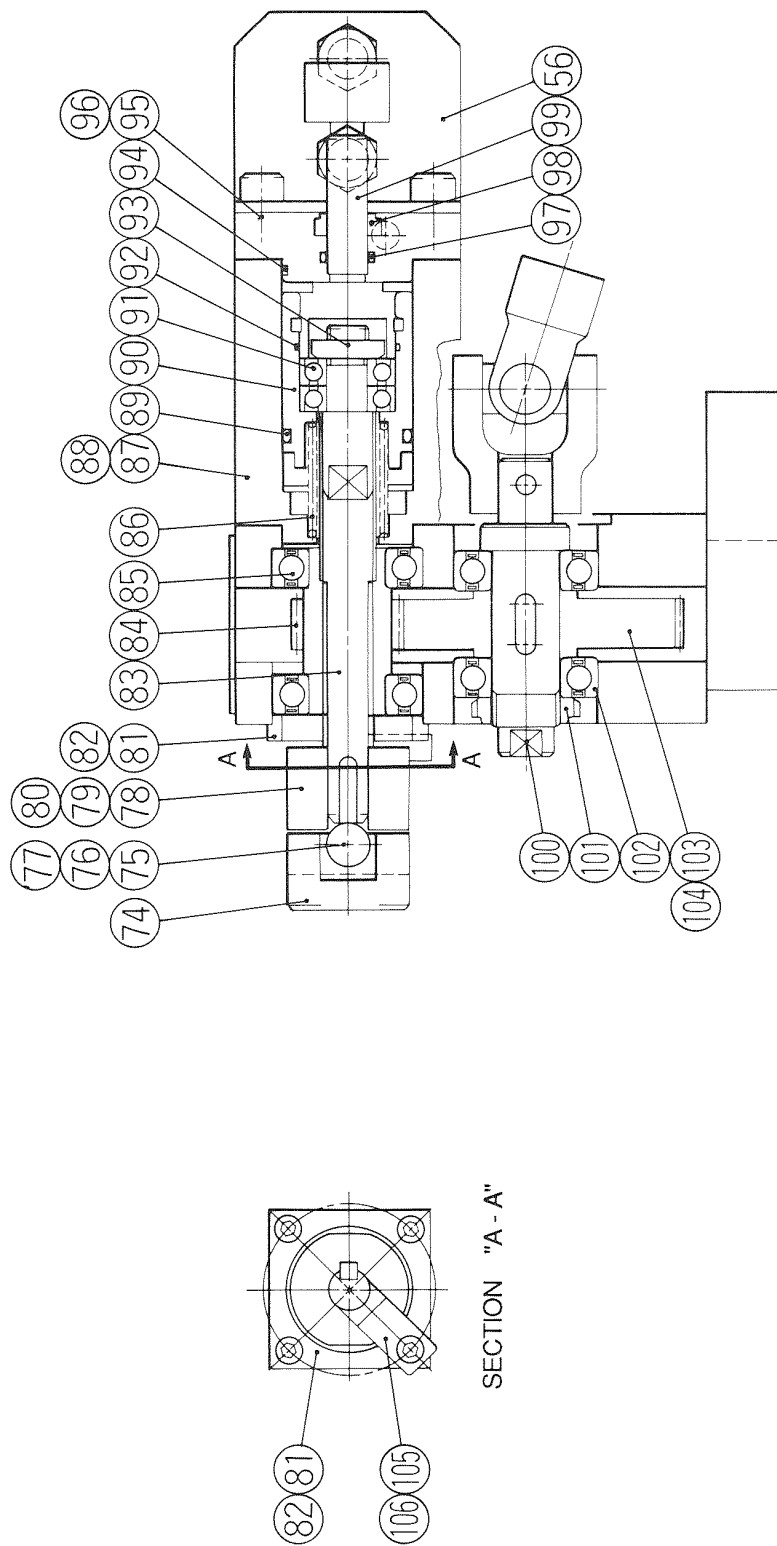
Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 37

Auto-index (2") From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **37**
Auto-index (2")

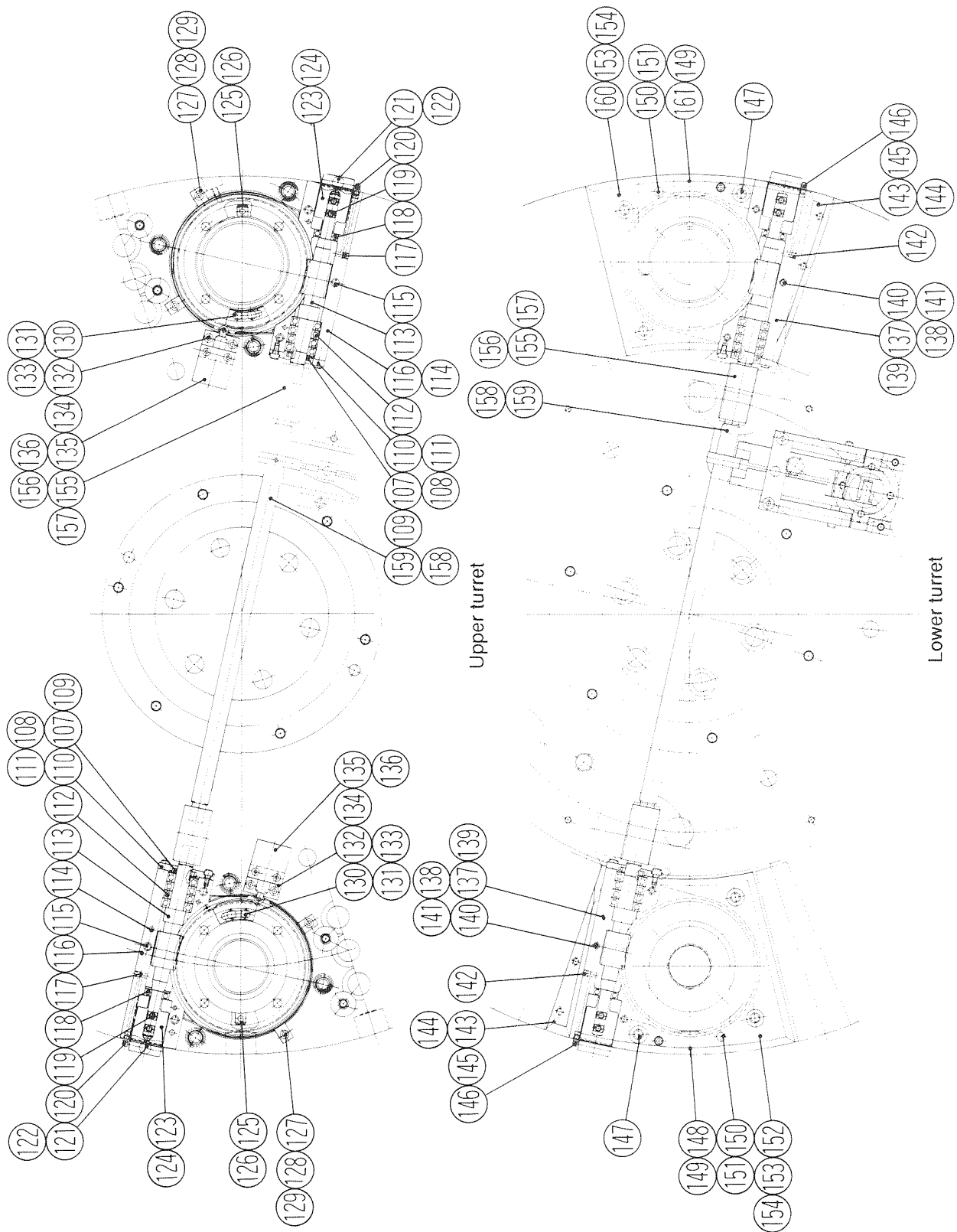
From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
74	74349726	Clamp shaft	812194	2	2	
75	74350701	Pin	812100	2	2	
76	74314404	Cap screw	M5 x 20	4	4	
77	74314622 (10423731)	Snap ring	STW-13	4	4	
78	74313611	Drive shaft	812364a	2	2	
79	74313923	Key (single round)	5 x 5 x 20 ^l	2	2	
80	74353703	Set screw (knurl end)	M8 x 8 (UNBRAKO)	2	2	
81	74313805	Bearing retainer	812354a	2	2	
82	74314429	Cap screw	M5 x 25 (UNBRAKO)	6	6	
83	74313615	P.P. spline	812346a	2	2	
84	74313809	Middle gear (S)	812349a	2	2	
85	74312420	Ball bearing	#60/22ZZ	4	4	
86	74313619	P.P. spring	822080	2	2	
87	74313618	P.P. cylinder	812344a	2	2	
88	74354331	Cap screw	M8 x 110	4	4	
89	74314825	O-ring	P32	2	2	
90	74313623	P.P. piston	812406	2	2	
91	74312424	Ball bearing	7001DB	2	2	
92	74314821 (36181565)	O-ring	S28	2	2	
93	74314709	Fine U-nut	AN01	2	2	
94	74314822 (58135416)	O-ring	S35	2	2	
95	74313632	P.P. cylinder cover	812345a	2	2	
96	74302818	Cap screw	M8 x 30	4	4	
97	74314826 (36110514)	O-ring	P12	2	2	
98	74314713 (74058979)	Scraper	SDR-12204	2	2	
99	74313627	P.P. plunger	812347	2	2	
100	74313819	Shaft (1)	812350b	2	2	
101	74314710	Fine U-nut	AN04	2	2	
102	74312427	Ball bearing	#6004ZZ	4	4	
103	74313810	Middle gear (L)	812348	2	2	
104	74313924	Key (double round)	6 x 6 x 18	2	2	
105	74313919	Key	812355	2	2	
106	74314420	Cap screw	M5 x 30 (UNBRAKO)	2	2	

Unit No. 37

Auto-index (2"-tooling)

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **37**

Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
107	74313711 (44132503)	Crown nut	AN03	4	4	
108	74314905 (44132502)	Crown washer	AW03	4	4	
109	74313812	Seal	822398	4	4	
110	74312630	Bearing retainer	802247c	4	4	
111	74300604	Cap screw	M6 x 15	16	16	
112	74312511	Ball bearing set	7932023	4	4	
113	74312611	Worm shaft (A)	812303	4	4	
114	74315126	Straight pin (with screw)	Φ6m6 x 50	4	4	
115	74314410	Cap screw	M8 x 45	6	6	
116	74312607	Worm housing (upper)	812314a	2	2	
117	74314803	Set screw	M6 x 6	2	2	
118	74312425 (74058974)	Ball bearing	#6001Z	4	4	
119	74353703	Set screw (knurl end)	M8 x 8 (UNBRAKO)	16	16	
120	74304827 (37115431)	Grease nipple	A-M6 x 1	2	2	
121	74350706	Driven pin	812103a	4	4	
122	74314407	Cap screw	M5 x 45	8	8	
123	74312636	Point shaft (driven side)	812195a	4	4	
124	74314807	Set screw (cup end)	M6 x 10	2	2	
125	74313917	Wheel key	822421a	2	2	
126	74314917	Spring pin	Φ6 x 14	2	2	
127	74312642	Wheel cover	812310a	2	2	
128	74300604	Cap screw	M6 x 15	4	4	
129	74305017	Pan head machine screw	M5 x 10	4	4	
130	74312647	Switch dog	812313a	2	2	
131	74300624	Button head socket screw	M6 x 15	4	4	
132	74313219	LS base	811852	2	2	
133	74309803 (44446227)	Cap screw	M6 x 40	4	4	
134	74302328 (44027930)	Washer	M6	4	4	
135	74314927	Limit switch	14CE31-1	2	2	
136	74314404	Cap screw	M5 x 20	4	4	
137	74312608	Worm housing (lower)	812325	2	2	
138	74315126	Straight pin (with screw)	Φ6m6 x 50	4	4	
139	74314811	Set screw (flat end)	M8 x 10	4	4	
140	74309806	Cap screw	M8 x 70	6	6	
141	74314204	Washer (M8)	827367	6	6	
142	74314806	Set screw (flat end)	M6 x 8	2	2	
143	74312654	Auxiliary base	817109	2	2	
144	74314204	Washer (M8)	827367	4	4	
145	74309806	Cap screw	M8 x 70	4	4	
146	74304827 (37115431)	Grease nipple	A-M6 x 1	2	2	

Unit No. 37
Auto-index (2")

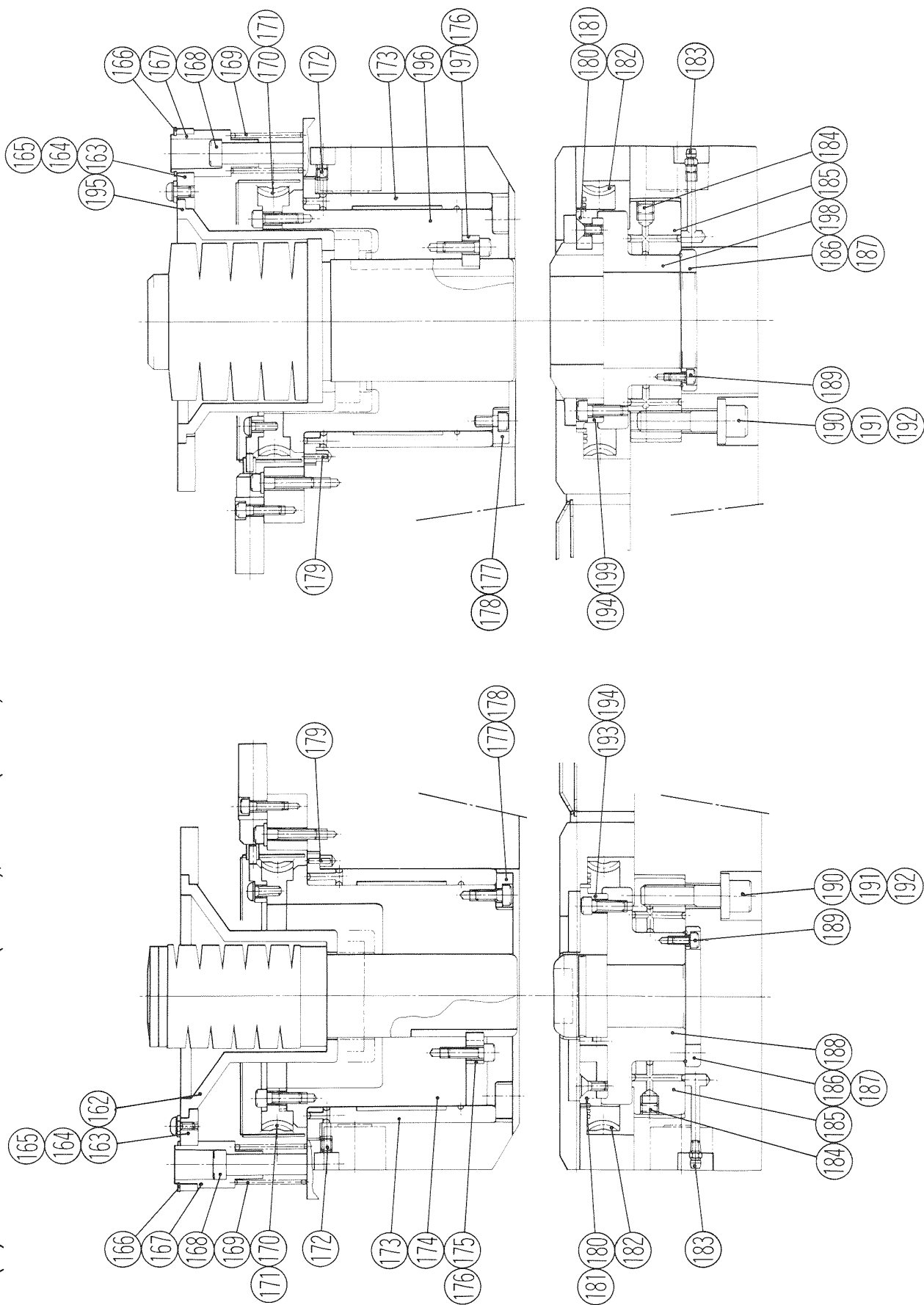
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 37

Auto-index (2")

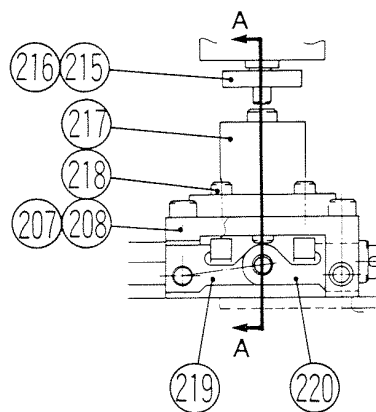
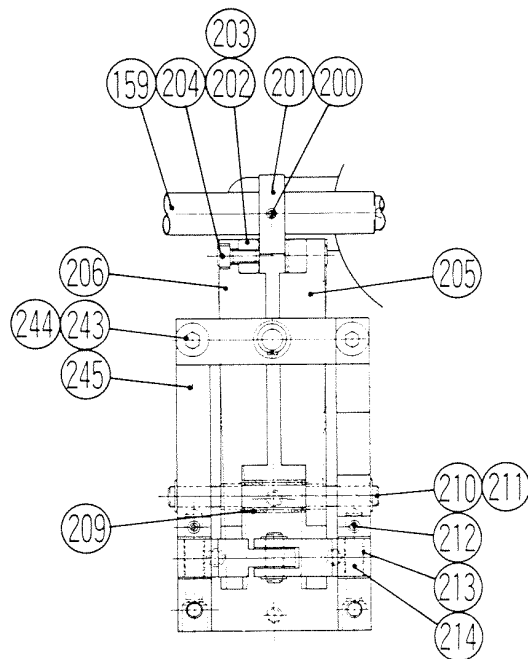
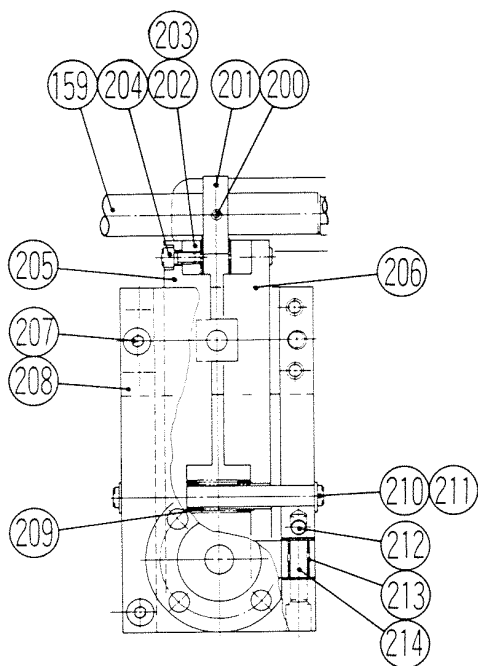
From serial No. C67679 (506072), C57982 (505072) and after.



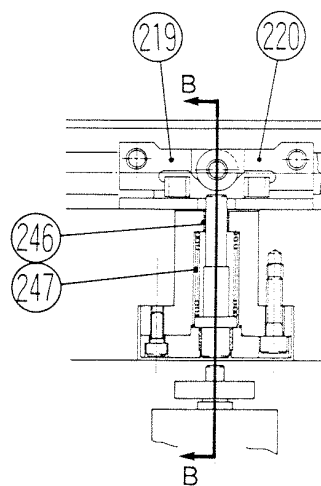
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
162	74312315	Lifter ring (B)	812319	1	1	
163	74312309	Ring holder	812304a	2	2	
164	74304816 (10557229)	Button head socket screw	M6 x 10	6	6	
165	74313429	Washer (M6)	821819	6	6	
166	74314617 (10317507)	Snap ring	STW-22	6	6	
167	74348703	Lifter collar	812216	6	6	
168	74312751	Shoulder screw	5501017c	6	6	
169	74312318 (74165232)	Lifter spring	827241a	6	6	
170	74312625	Worm wheel (upper)	812301	2	2	
171	74314431	Cap screw	M6 x 20 (UNBRAKO)	8	8	
172	74314803	Set screw (flat end)	M6 x 6	2	2	
173	74312731	Guide bushing (upper)	812418a	2	2	
174	74312361	Guide holder (B)	812413	1	1	
175	74312326 (74058997)	Guide key	822420	1	1	
176	74302815	Cap screw	M6 x 20	2	2	
177	74312664	Seal shaft	812308	2	2	
178	74314432	Cap screw	M6 x 15 (UNBRAKO)	8	8	
179	74314911	Spring pin	Φ3 x 14	2	2	
180	74312340	Die key	812457a	2	2	a: Apr. '89 ~
181	74314612	Countersink head socket screw	M6 x 14	2	2	
182	74312626	Worm wheel (lower)	812428	2	2	
183	74304827	Grease nipple	A-M6 x 1	2	2	
184	74314816	Plug (for hydraulic)	PT 1/8"	4	4	
185	74312732	Guide bushing (lower)	812447	2	2	
186	74312666	Flange	812455	2	2	
187	74312667	Shim	812456	2 set	2 set	
188	74312355	1-1/4" die holder base	812454	1	1	
189	74302810	Cap screw	M5 x 10	12	12	
190	74301633	Cap screw	M12 x 50	16	16	
191	74301615 (44028619)	Spring washer	M12	16	16	
192	74314203	Washer (M12)	827014b	16	16	
193	74312351	1-1/4" die holder	812327b	1	1	
194	74302815	Cap screw	M6 x 20	8	8	
195	74312314	Lifter ring (A)	812305a	1	1	
196	74312360	Guide holder (A)	812412	1	1	
197	74312337	Guide key	812309a	1	1	
198	74312356	2" die holder base	812453	1	1	
199	74312352	2" die holder	812317b	1	1	

Unit No. 37
Auto-index (2")

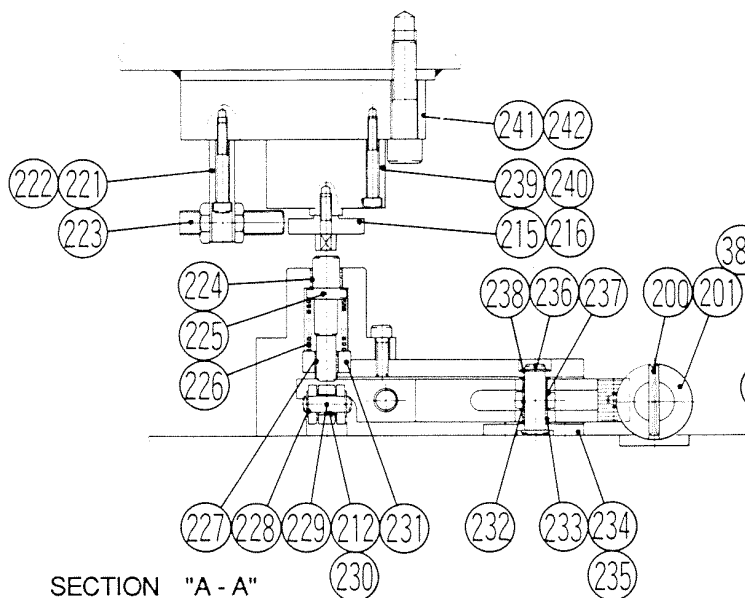
From serial No. C67679 (506072), C57982 (505072) and after.



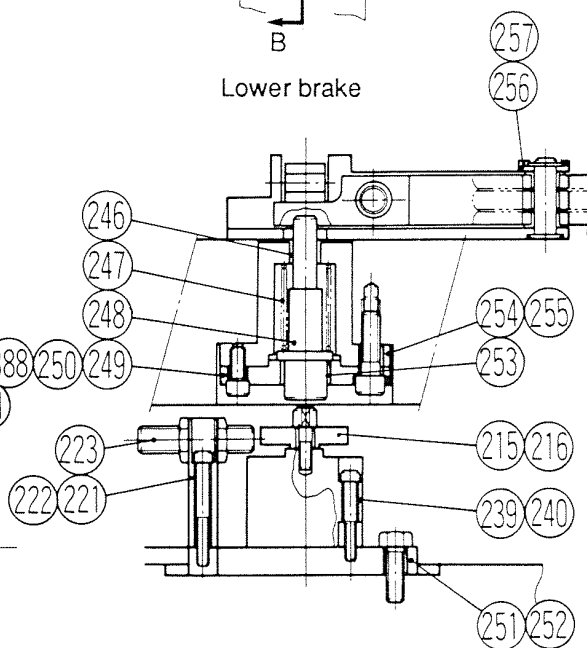
Upper brake



Lower brake



SECTION "A - A"



SECTION "B - B"

Unit No. 37

Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
200	74314915	Spring pin	Φ6 x 30	2	2	
201	74312621	Brake shaft	802238c	2	2	
202	74314118	Brake plate	822484b	4	4	
203	74314005	Brake shim	822434	1 set	1 set	
204	74314605	Button head socket screw	M6 x 12 (UNBRAKO)	4	4	
205	74314107	Brake arm (D)	822474d	2	2	
206	74314106	Brake arm (C)	822473d	2	2	
207	74304911	Cap screw	M8 x 60	4	4	
208	74530214	Brake holder (upper)	822460e	1	1	
209	74313702	Spring	822467c	2	2	
210	74314013	Guide pin	822462a	2	2	
211	74314616	Snap ring	STW-10	4	4	
212	74314804	Set screw (knurl end)	M5 x 5 (UNBRAKO)	4	4	
213	74314921	DU bushing	MB0808-15FDU	10	10	
214	74313815	Hinge pin	822399	4	4	
215	74530608	Dog	822487	4	4	
216	74530609	Dog bolt	822488	4	4	
217	74530524	Pin holder (upper)	822475a	1	1	
218	74302815	Cap screw	M6 x 20	4	4	
219	74314025	Arm support (A)	822468b	2	2	
220	74314026	Arm support (B)	822469b	2	2	
221	74530610	Switch bracket	822489b	4	4	
222	74314407	Cap screw	M5 x 45	8	8	
223	74312411	Proximity switch	TL-X2F1-7 cable-5 m	4	4	
224	74530909	Liner bushing	ML1410	1	1	
225	74530518	Stroke pin (upper)	822476c	1	1	
226	74530530	Spring	822429	1	1	
227	74315005	Liner bushing	ML1010	1	1	
228	74314615 (36181516)	Snap ring	STW-8	4	4	
229	74314102	Swing pin	822470	2	2	
230	74314126	Thrust washer	TW0815	2	2	
231	74530525	Pin guide (upper)	822477	1	1	
232	74314923	DU bushing	MB1008-18FDU	2	2	
233	74314922	DU bushing	MB1006-18FDU	4	4	
234	74530503	Arm plate (upper)	822428c	1	1	
235	74535403	Button head socket screw	M6 x 15	4	4	
236	74314017	Arm pin	822465a	2	2	
237	74314125	Thrust washer	822490	2	2	
238	74314616 (10205431)	Snap ring	STW-10	2	2	
239	74530903	Cylinder	CQ1B40-10S	4	4	

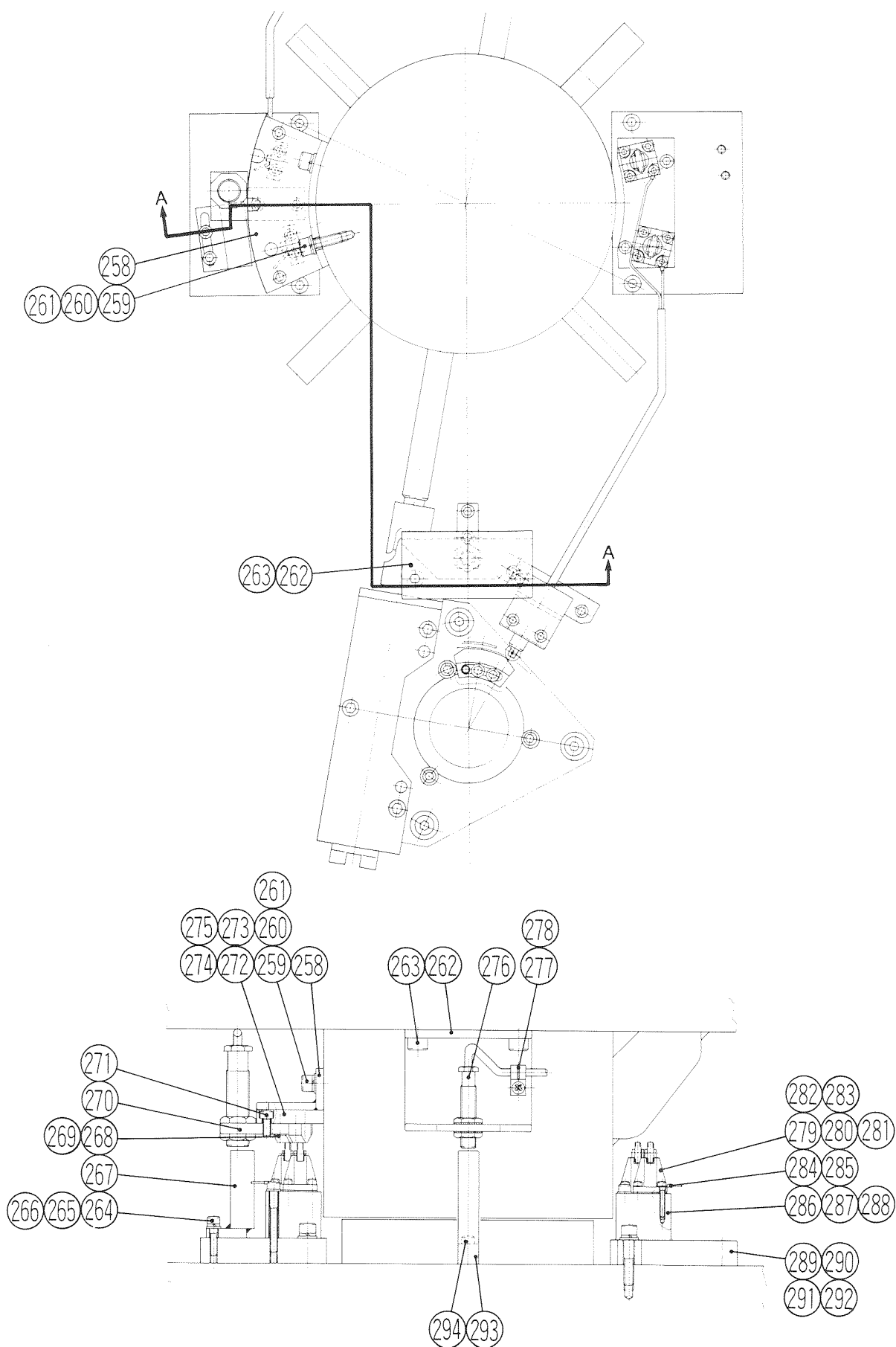
Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 37
Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

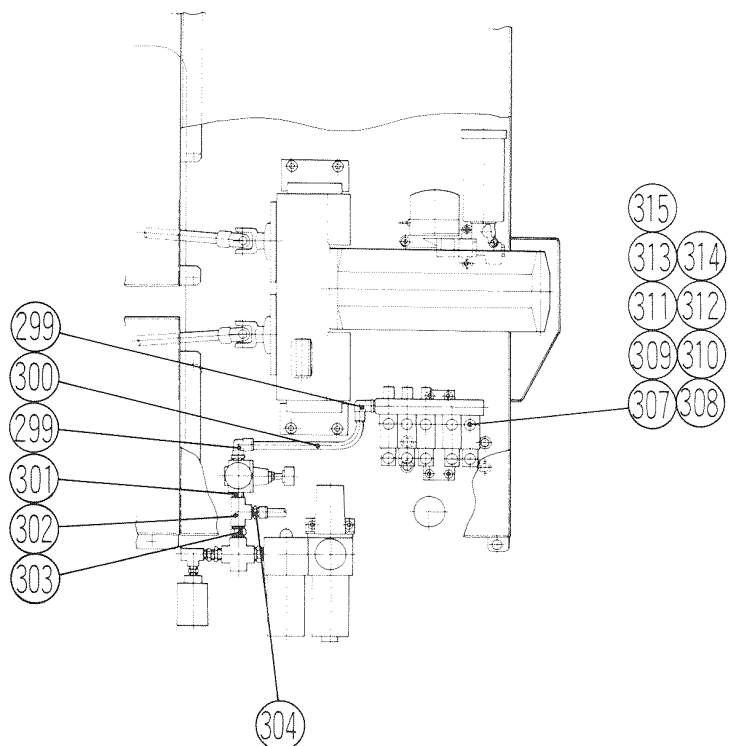
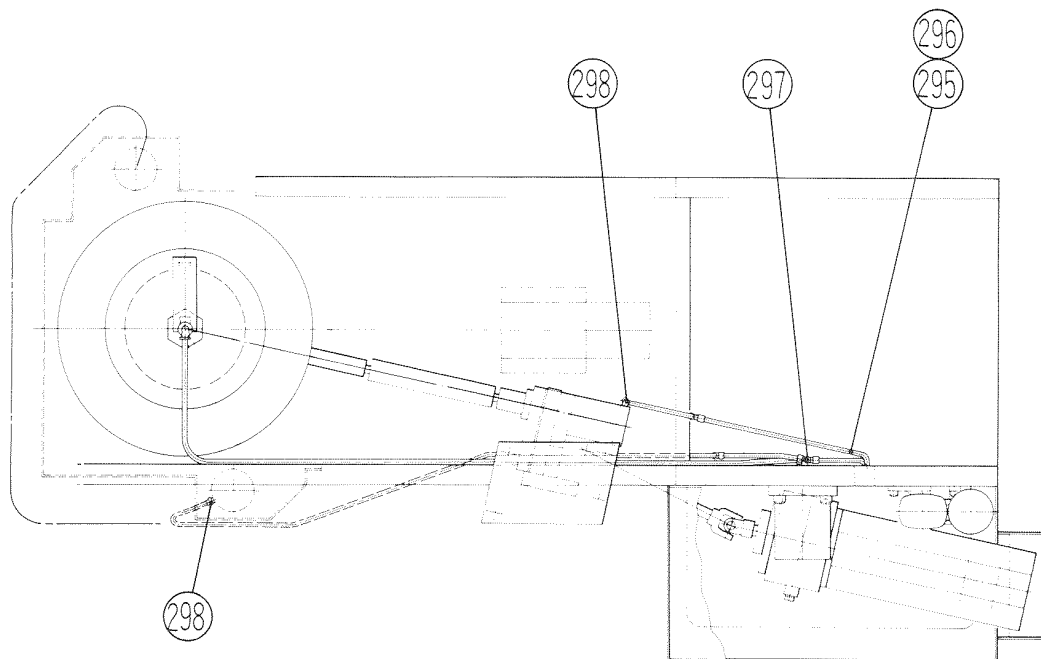


SECTION "A - A"

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
258	74529010	Dog bracket	822226	1	1	
259	21415514	Cap screw	M8 x 25	2	2	
260	10001521	Spring washer	M8	2	2	
261	74300511	Washer	M8	2	2	
262	74529002	Switch bracket	822351a	1	1	
263	74301628 (44028704)	Cap screw	M10 x 20	2	2	
264	74300611 (75168508)	Cap screw	M6 x 25	2	2	
265	74300517 (44027928)	Spring washer	M6	2	2	
266	74302328 (44027930)	Washer	M6	2	2	
267	74529013	Dog (origin)	822341a	1	1	
268	74313503	Dog (B)	829437a	2	2	
269	74314403 (75168220)	Cap screw	M5 x 15	4	4	
270	74529003	Switch bracket	828989a	1	1	
271	74300604	Cap screw	M6 x 15	2	2	
272	74529011	Dog base (upper)	828988	1	1	
273	74300611 (75168508)	Cap screw	M6 x 25	2	2	
274	74302328 (44027930)	Washer	M6	2	2	
275	10310352	Nut	M6	2	2	
276	74312411	Proximity switch	TL-X2F1-7 cable-5 m	1	1	
277	74310307 (44027304)	Saddle	CH-6	1	1	
278	10325312	Pan head machine screw	M6 x 10	1	1	
279	74529030 (74312507)	Head	7932020	4	4	
280	74314402	Cap screw	M4 x 25	16	16	
281	74300515 (44027327)	Spring washer	M4	16	16	
282	74313701	Spring	822231a	4	4	
283	74313707	Copper plate	822235	4	4	
284	74307723	Lug terminal	0.75 mm ² x ϕ 4	6	6	
285	74314401	Cap screw	M4 x 10	2	2	
286	74529024	Head base	828994b	2	2	
287	74314409	Cap screw	M6 x 50	4	4	
288	74302328 (44027930)	Washer	M6	4	4	
289	74529023	Base	828996b	2	2	
290	74304909	Cap screw	M8 x 40	4	4	
291	10001521	Spring washer	M8	4	4	
292	74300511	Washer	M8	4	4	
293	74529009	Dog (confirmation)	822352	2	2	
294	74300611 (75168508)	Cap screw	M6 x 25	4	4	

Unit No. 37
Auto-index (2")

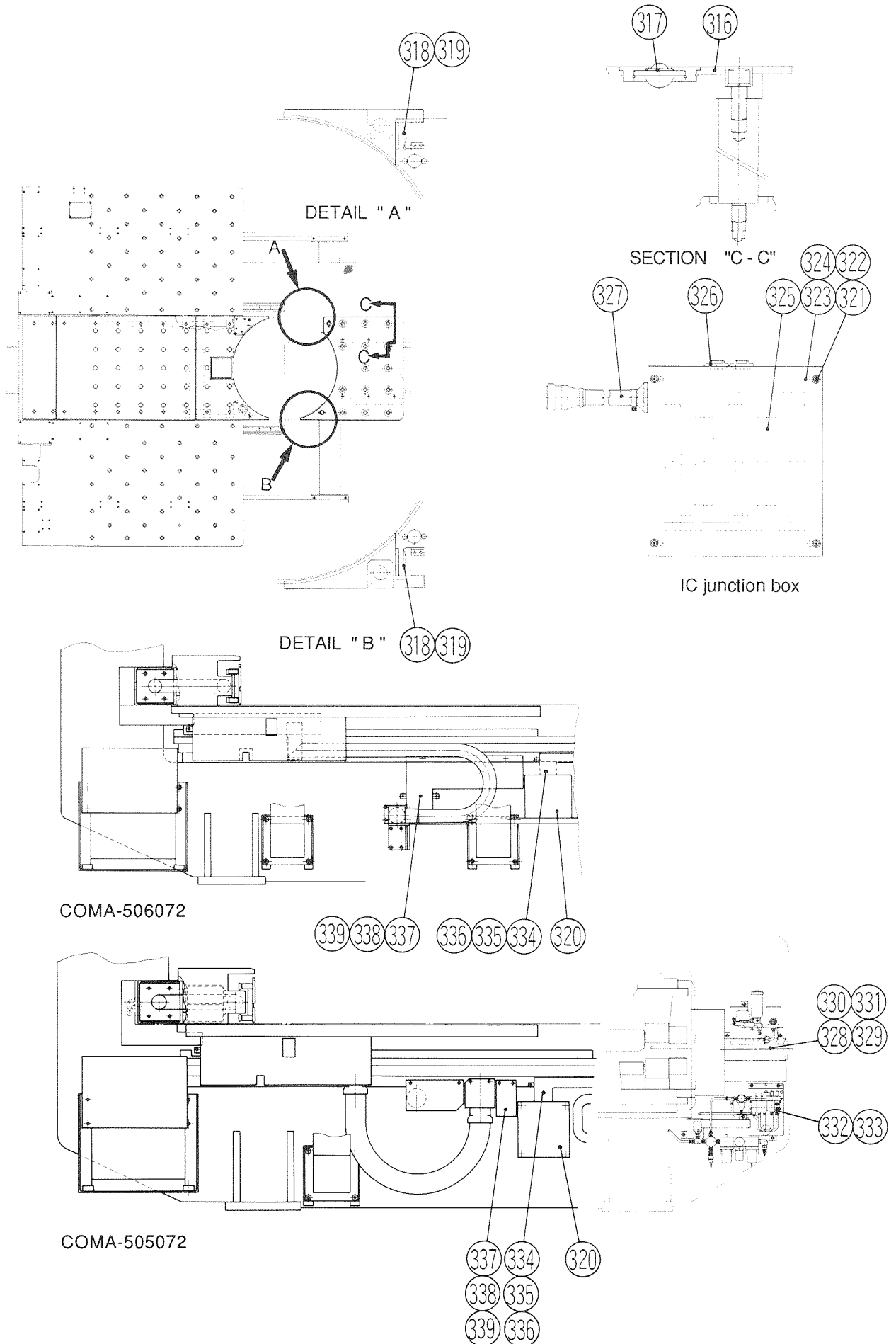
From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 37
Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



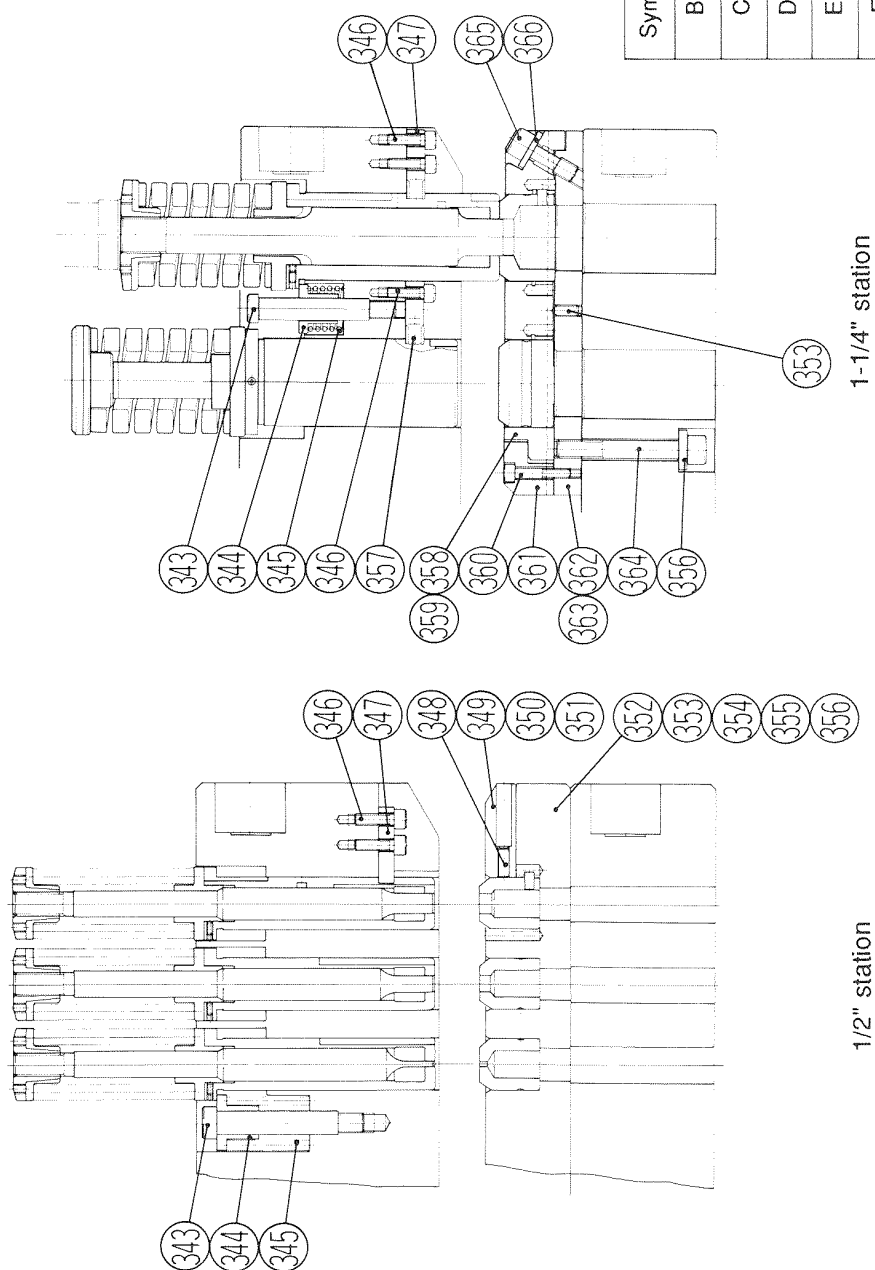
Unit No. 37

Auto-index (2")

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Auto-index (2")
From serial No. C67679 (506072), C57982 (505072) and after.



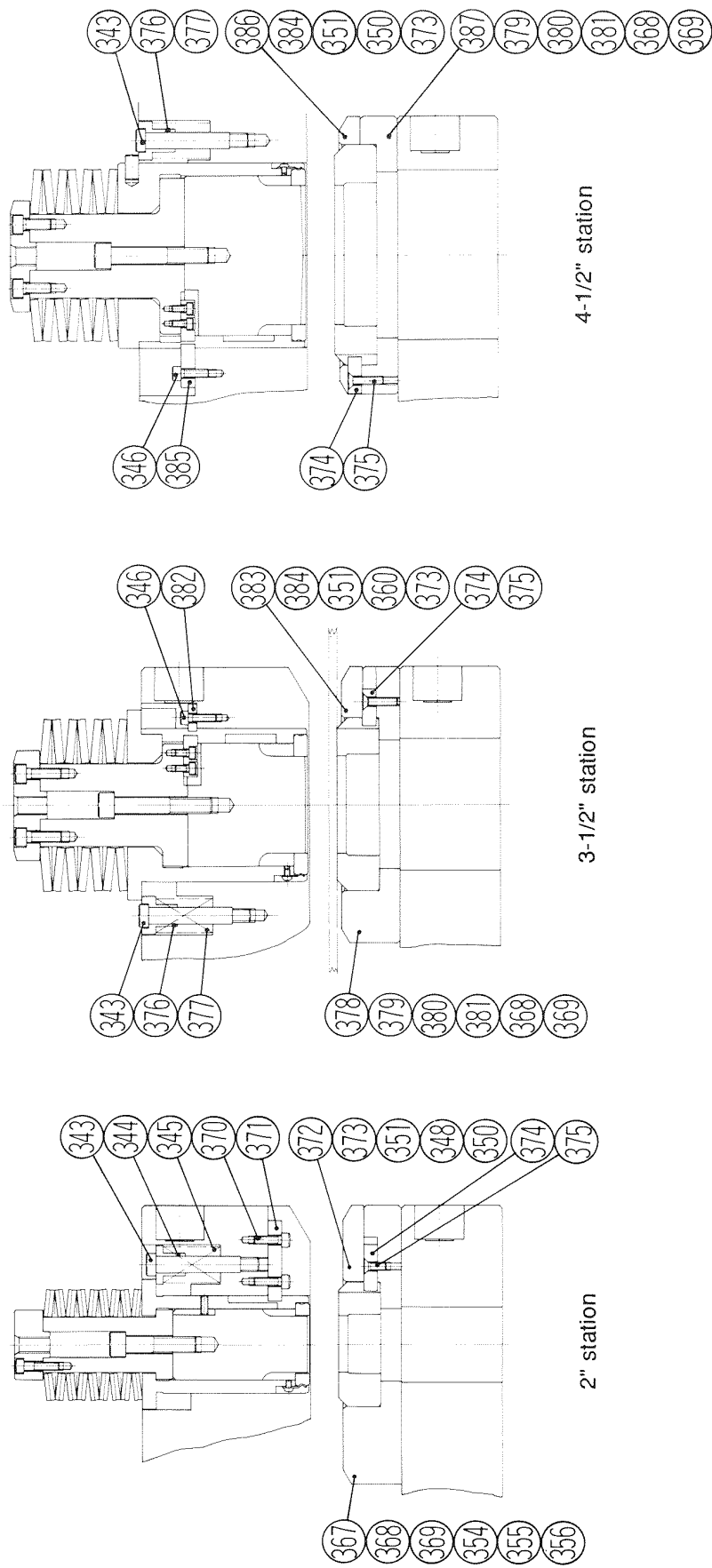
Symbol	Size	Die holder	Die spacer	Q'ty
B1	4-1/2"	387	386	2
C1	3-1/2"	378	383	2
D1	2"	367	372	2
E1	1-1/4"	358	362	6
F1	1/2"	352	349	14
I1	AI	—	—	2

Unit No. **37**
Auto-index (2"-tooling)

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 37
 Auto-index (2"-tooling) From serial No. C67679 (506072), C57982 (505072) and after.



Unit No.37

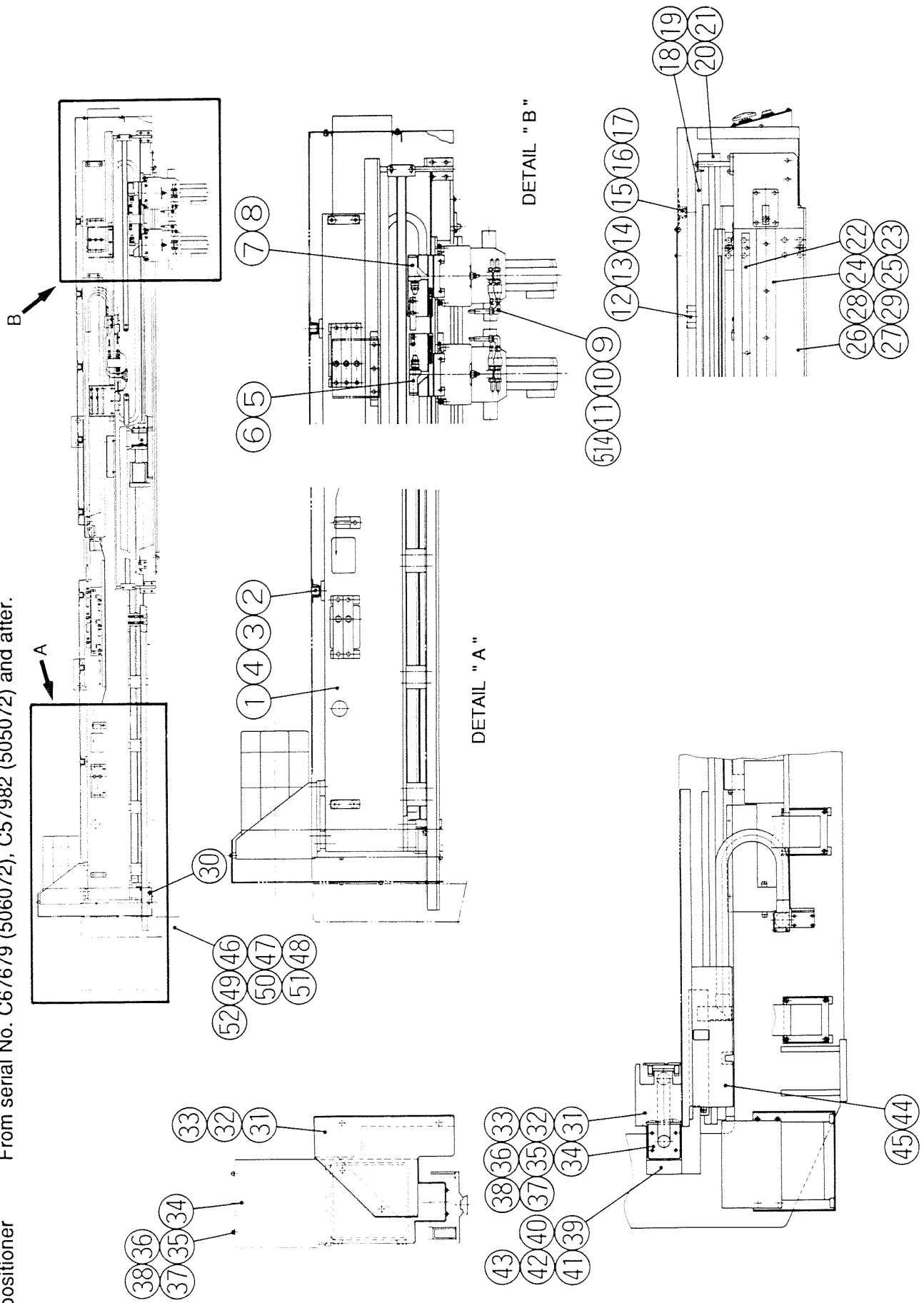
Auto-index (2"-tooling)

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 38
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **38**

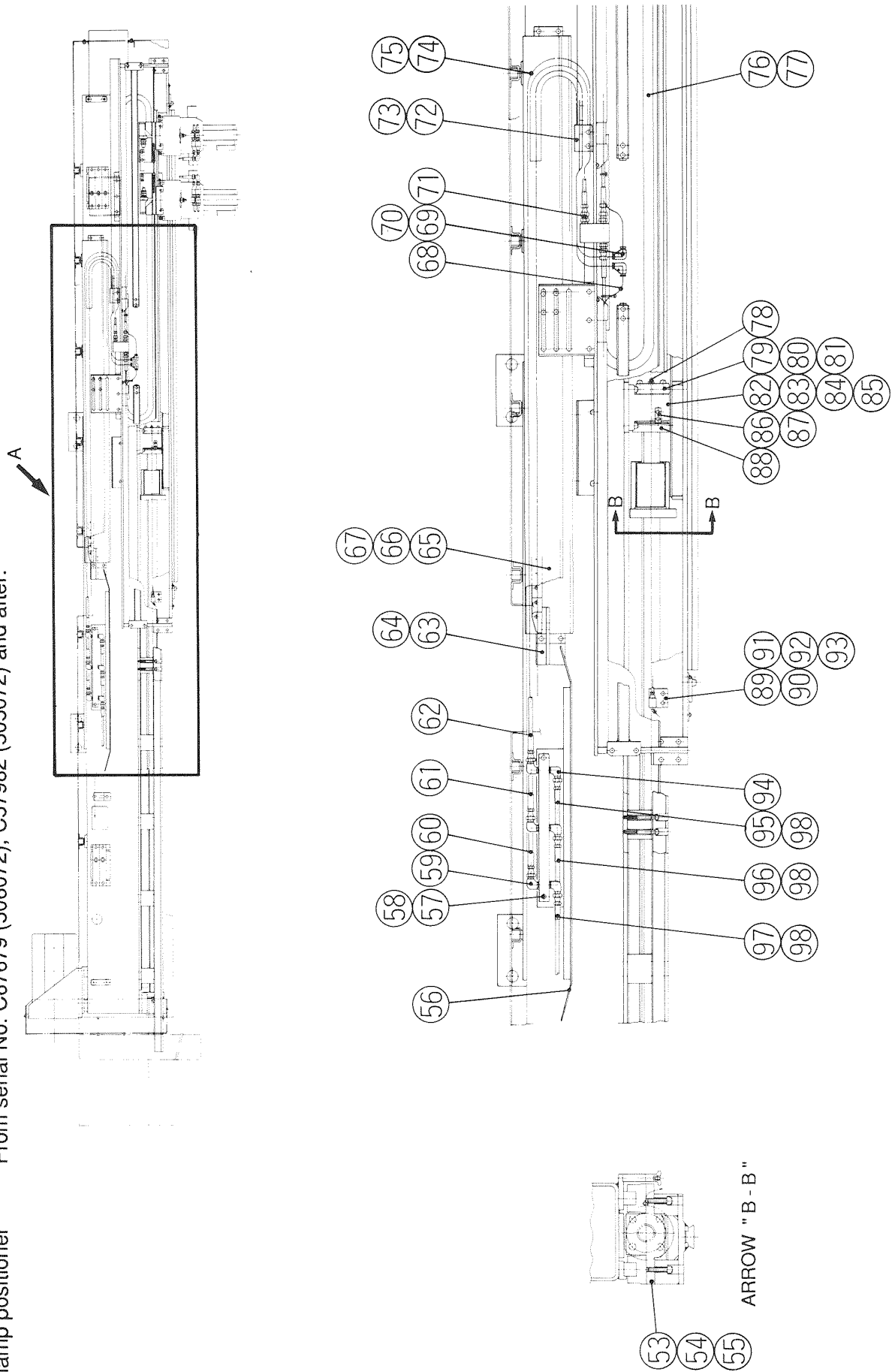
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74516006	Carriage base	6014101b	1	1	
2	74516034	Carriage cover (R)	6014111d	1	1	
3	74300608	Cap screw	M8 x 80	2	2	
4	74302818	Cap screw	M8 x 30	4	4	
5	74318312	Cap flex-(2)	6019141	1	1	
6	74300604	Cap screw	M6 x 15	2	2	
7	74318311	Cap flex-(1)	6019140	1	1	
8	74300604	Cap screw	M6 x 15	2	2	
9	74318225 (10561538)	Socket	SP-1S	4	4	
10	74517034	Adapter	31-02	4	4	~ Jan. '89
11	74318922 (10561446)	Elbow	LC2-1/4" x 1/8"	4	4	
12	74317513	Cover (F)	6019134	1	1	
13	74300604	Cap screw	M6 x 15	7	7	
14	74302328	Washer	M6	7	7	
15	74516033	Carriage cover (F)	6014110c	1	1	
16	10443017	Cap screw	M6 x 80	2	2	
17	74304904	Cap screw	M6 x 30	8	8	
18	74317717	Guide flex	6019129a	2	2	
19	74302815	Cap screw	M6 x 20	8	8	
20	74516036	Hose guide	6019154b	1	1	b: May '89 ~
21	74302815	Cap screw	M6 x 20	8	8	
22	74317705	Scale	6013509	1	1	
23	74319112	Countersink head socket screw	M6 x 8	7	7	
24	74317709	Guide plate	6013510	1	1	
25	74302815	Cap screw	M6 x 20	15	15	
26	74516012	Carriage	6013103e	1	1	
27	74302818	Cap screw	M8 x 30	8	8	
28	74304913	Cap screw	M10 x 40	6	6	
29	74310958 (75169304)	Grease nipple	A-PT 1/8	4	4	
30	74516303	Bearing holder	823106d	1	1	
31	74516119	Guard cover	6014114d	1	1	
32	74300604	Cap screw	M6 x 15	4	4	
33	74302328 (44027930)	Washer	M6	4	4	
34	74516120	Belt cover	6014112e	1	1	
35	74300610	Cap screw	M6 x 100	2	2	
36	74302328 (44027930)	Washer	M6	2	2	
37	74301627	Cap screw	M8 x 35	2	2	
38	74516023	Washer	823555	2	2	
39	74516040	Wiring cover (A)	6014401a	1	1	
40	74355605	Truss head machine screw	M8 x 15	4	4	

Unit No. 38
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

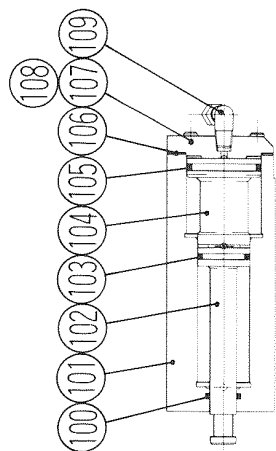
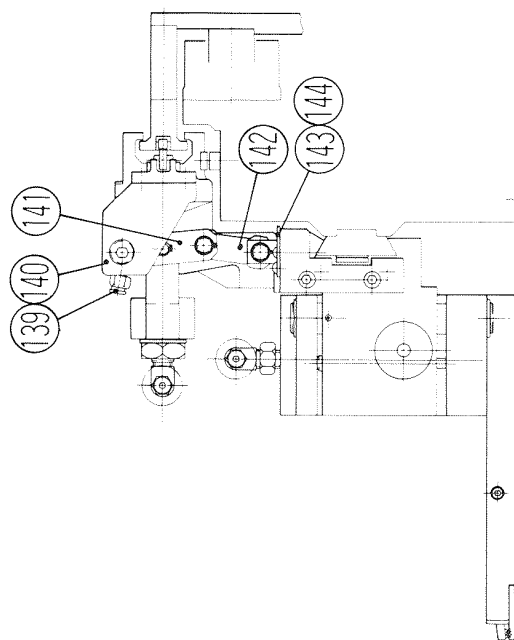
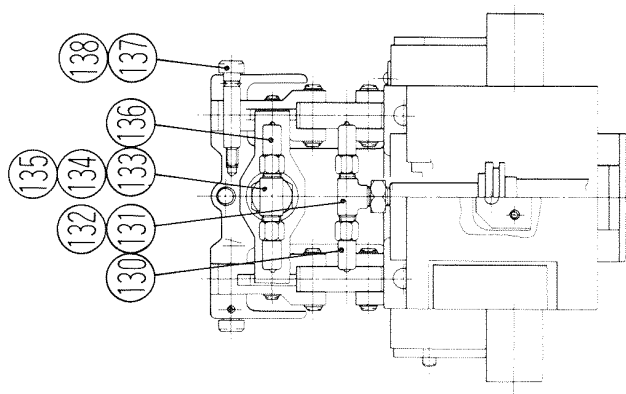
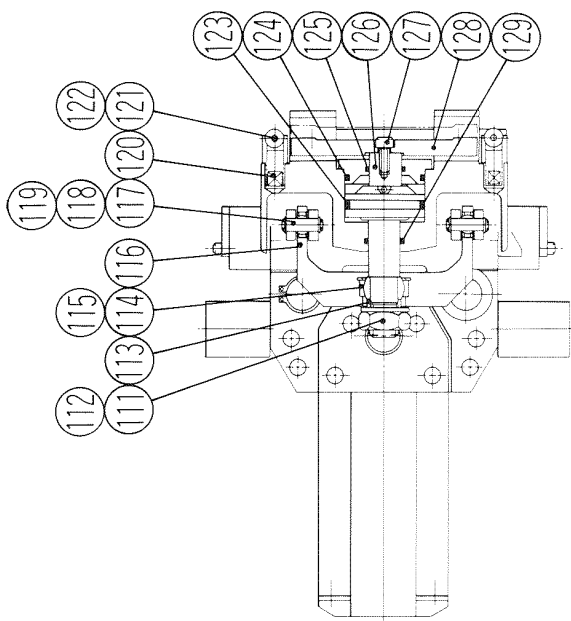


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
53	74516323	X-axis nut bracket	6014105a	1	1	
54	74302818	Cap screw	M8 x 30	8	8	
55	74516512	Grease nipple	A-PT 1/4"	1	1	
56	74318321	Sub hose guide	6019797a	1	1	
57	74318330	Piping block	6013528	1	1	
58	74314408	Cap screw	M6 x 40	2	2	
59	74318929	Adapter	1033-04	3	3	
60	74318414	Hose (D)	6013526a	1	1	
61	74318412	Hose (C)	6013525b	1	1	
62	74318410	Hose (B)	6013524a	1	1	
63	74318325	Hose stay (A)	6019126	1	1	
64	74318334	Spacer	6019128	1	1	
65	74318317	Hose guide	6013511b	1	1	b: Mar. '89 ~
66	74302815	Cap screw	M6 x 20	4	4	
67	74310421	Band	CV-250	2	2	
68	74318933	Tube	U2-4-6 x 4 L=3.5 m	1	1	
69	74318923	Union elbow	PUL-6	2	2	
70	74319101	Cap screw	M3 x 15	2	2	
71	74316113	Adapter	1013-04	3	3	
72	74318326	Hose stay (B)	6019127a	1	1	
73	74300604	Cap screw	M6 x 15	2	2	
74	74318934	Cap flex	10.2.048-1200	1	1	
75	74306424	Button head machine screw	M6 x 10	4	4	
76	74318401	Hoser sub ass'y	6013515c	2	2	
77	74319124	Truss head socket screw	M5 x 8	4	4	
78	74310958 (75169304)	Grease nipple	A-PT 1/8"	1	1	
79	74516336	Bearing retainer B	6013599	1	1	
80	74304905	Cap screw	M6 x 35	4	4	
81	74300517	Spring washer	M6	4	4	
82	74516339	Bearing holder B	6014106a	1	1	
83	74300607	Cap screw	M8 x 25	4	4	
84	74310617	Stripper bolt	STO 8 x 10	1	1	
85	74300518	Spring washer	M8	4	4	
86	74304519	Clamper	815523a	2	2	
87	74305025	Countersink head machine screw	M5 x 8	4	4	
88	74516344	Damper B	6019172	1	1	
89	74317721	Nipple bracket	6013596	1	1	
90	74302810	Cap screw	M5 x 10	2	2	
91	74318932	Nylon tube	AX-1206 450 L	1	1	
92	74332506	Coupler	SLH-061	2	2	

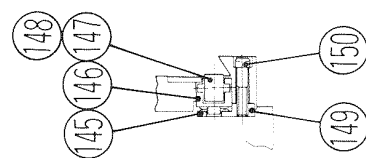
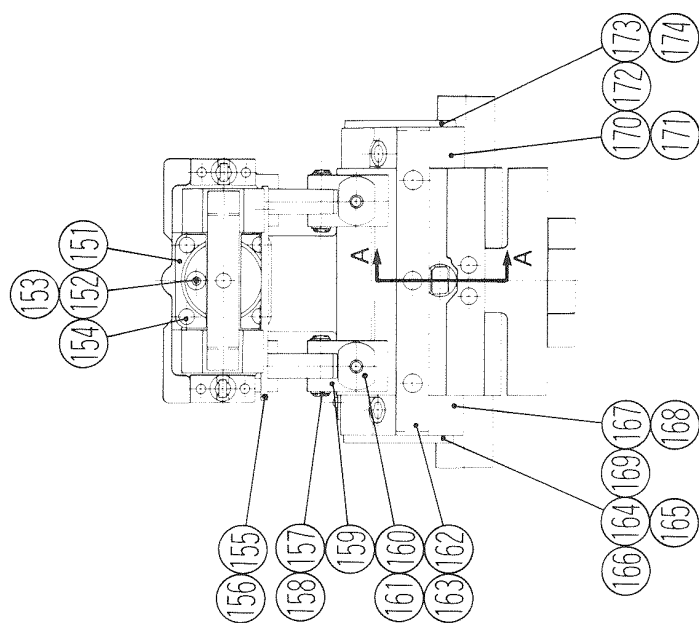
Unit No. **38**
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



Select cylinder (STRIKER)



SECTION "A - A"

Unit No. **38**

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
99	74317601	Select cylinder ass'y	6013590	1	1	
100	74303020 (10001124)	O-ring	P-18	1	1	
101	74317605	Select cylinder	6013591a	1	1	
102	74317613	Piston	6013593	1	1	
103	74303023 (10315807)	O-ring	P-29	1	1	
104	74317609	Free piston	6013592	1	1	
105	74303024 (52110303)	O-ring	P-44	1	1	
106	74317617	Packing	6013594	1	1	
107	74317621	Cap	6013595b	1	1	
108	74319102	Cap screw	M6 x 30 (UNBRAKO)	4	4	
109	74313409	Elbow	PL-6 x 4-PT 1/8-BS	1	1	
110	74317801	Clamp ass'y	6016660b	2 set	2 set	
111	74319132	Nut	M16 x 1.5	2	2	
112	74314206	Washer	M16	2	2	
113	74318023	Collar	6013552a	2	2	
114	74318209	Spherical support	GE-17ES	2	2	
115	74318215	Snap ring	BR-30	2	2	
116	74318005	Arm lock	6013541a	2	2	
117	74317902	Pin (B)	6016666	4	4	
118	74318210	Spherical support	GE-8E	4	4	
119	74314615 (36181516)	Snap ring	STW-8	8	8	
120	74318032	L.S. spring	6014442	4	4	
121	74318001	L.S. head	7950051	4	4	
122	74314401	Cap screw	M4 x 10	8	8	
123	74303024 (52110303)	O-ring	P-44	2	2	
124	74318220 (58140710)	O-ring	G-45	2	2	
125	74318219	O-ring	P-20	2	2	
126	74318015	Piston	6013540a	2	2	
127	74300604	Cap screw	M6 x 15	2	2	
128	74317919	Holder	6016673b	2	2	
129	74318219	O-ring	P-20	2	2	
130	74318232	Coupler	SP-1P	4	4	
131	74318230	Tee	SK-20	2	2	
132	74318226	Socket	SK-102	2	2	
133	74318228	Tee	SK-1001	2	2	
134	74318229	Nipple	SK-201	2	2	
135	74318214 (76074206)	Snap ring	STW-6	4	4	
136	74318232	Coupler	SP-1P	4	4	
137	74317809	Shoulder bolt	6016663	4	4	
138	74161717	Set screw (cone end)	M5 x 8	4	4	

Unit No.38

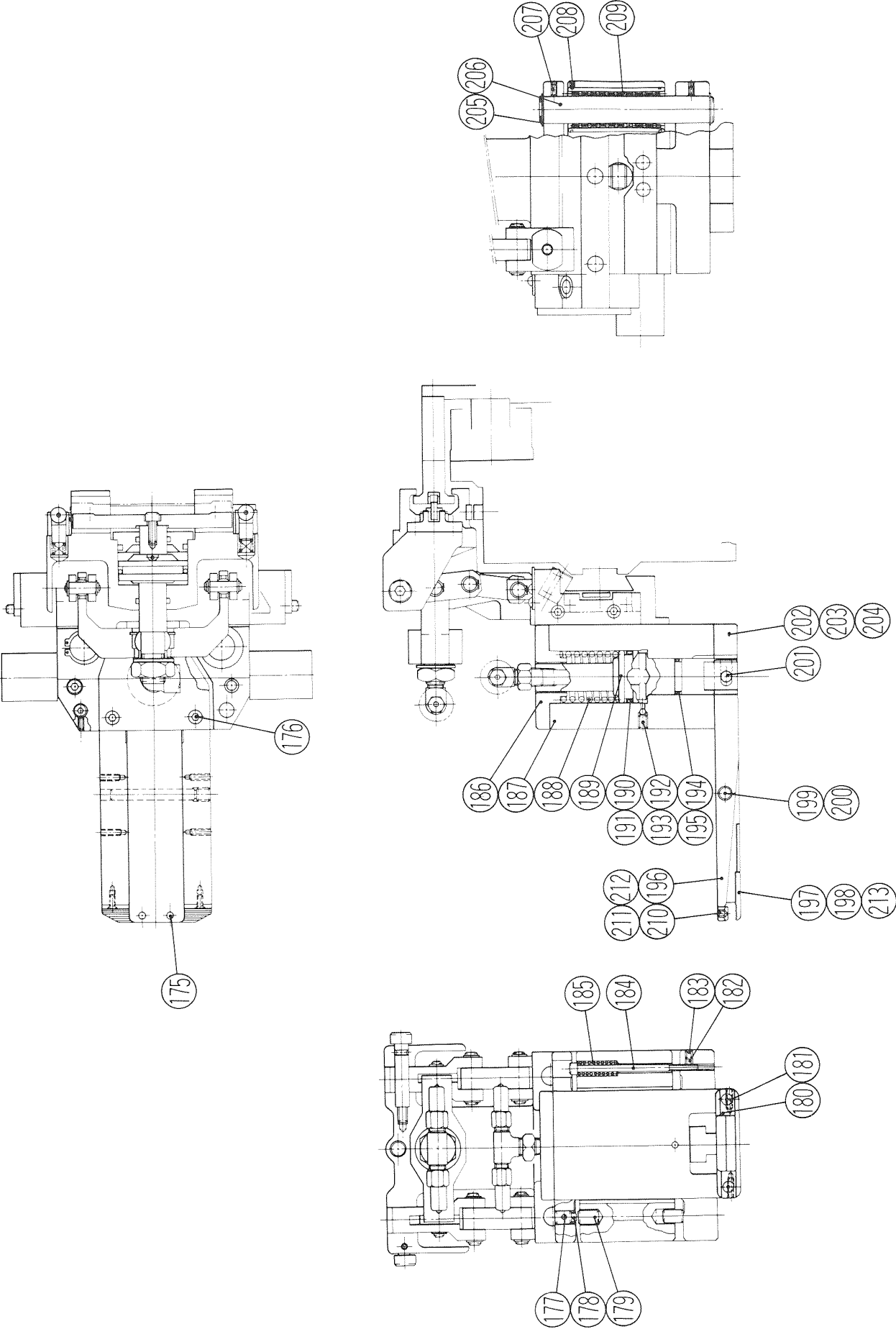
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
139	74309934	Coupler	PN1-6-PT 1/8-BS	1	1	
140	74317805	Clamp housing	6016662b	2	2	
141	74317813	Lock arm (A)	6016664	4	4	
142	74317814	Lock arm (B)	6016665	4	4	
143	74317819	Pointer	6013551	2	2	
144	74305016	Pan head machine screw	M5 x 8	4	4	
145	74318208	Cone disk spring	MDS7-3	4	4	
146	74317823	Retainer	6016671a	2	2	
147	74318201	Roller follower	NART-5UUR	2	2	
148	74318205	Needle roller	Φ5 x 19.8	2	2	
149	74317827	Stopper	6016672	2	2	
150	74304904	Cap screw	M6 x 30	4	4	
151	74318019	Cap cylinder	6013550a	2	2	
152	74319129	Set screw	M6 x 8	2	2	
153	74316027	Steel ball	#3/16	2	2	
154	74302815	Cap screw	M6 x 20	8	8	
155	74318027	Detector bar	6013554	2	2	
156	74319117	Countersink head socket screw	M5 x 12	4	4	
157	74317901	Pin (A)	6016667	8	8	
158	74314616 (10205431)	Snap ring	STW-10	16	16	
159	74317907	Lock plate	6016668a	4	4	
160	74317911	Pressure nut	6016669a	4	4	
161	74302818	Cap screw	M8 x 30	4	4	
162	74317915	Plate	6016670	2	2	
163	74319118	Countersink head socket screw	M6 x 16	6	6	
164	74318009	Scraper (1)	6013538a	4	4	
165	74318010	Scraper (2)	6013539	4	4	
166	74302810	Cap screw	M5 x 10	16	16	
167	74317924	Bracket side (R)	6016675b	2	2	
168	74301626 (75168508)	Cap screw	M6 x 25	4	4	
169	74318202	Cam follower	CF6-UU	2	2	
170	74317923	Bracket side (L)	6016674b	2	2	
171	74301626	Cap screw	M6 x 25	4	4	
172	74318202	Cam follower	CF6-UU	2	2	
173	74317929	Stopper	6016676	4	4	
174	74314406	Cap screw	M5 x 30	4	4	

Unit No. 38
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. **38**

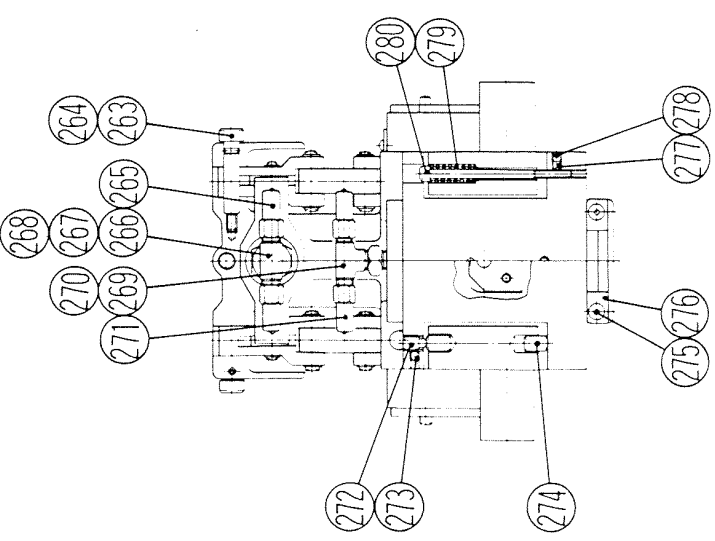
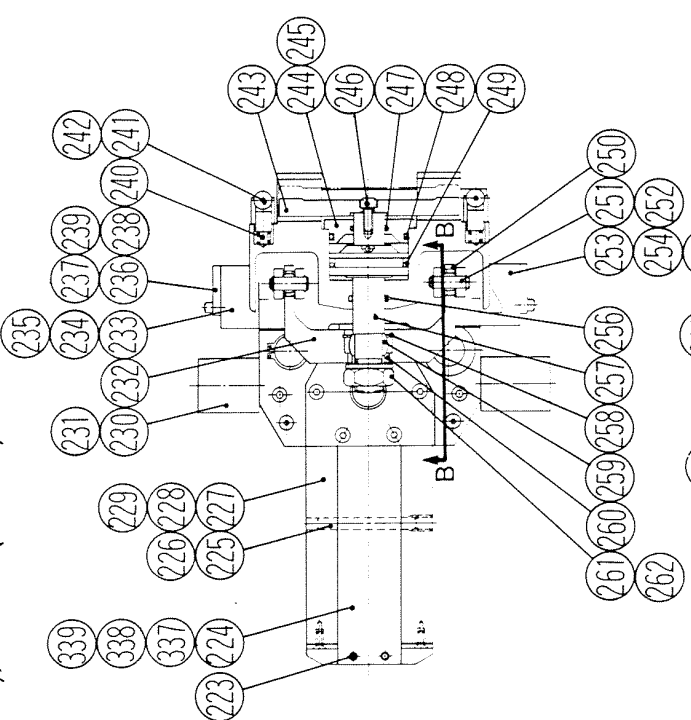
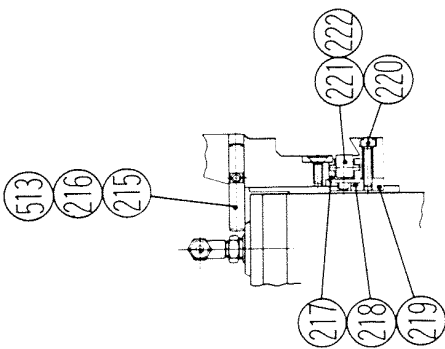
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

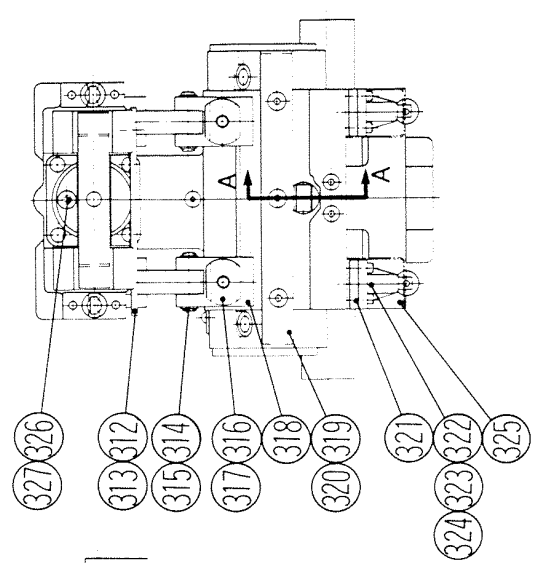
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
175	74319127	Set screw (cup end)	M5 x 6	4	4	
176	74300604	Cap screw	M6 x 15	8	8	
177	74306405	Set screw (cup end)	M6 x 6	4	4	
178	74319130	Set screw (dog end)	M10 x 17	4	4	
179	74303731	Cushion	806009	8	8	
180	74304620 (74161353)	Stopper	816026c	4	4	c: Nov. '89 ~
181	74305026	Countersink head socket screw	M4 x 12 (UNBRAKO)	4	4	
182	74303816	Insert	806073	4	4	
183	74306405	Set screw (cup end)	M6 x 6	4	4	
184	74304955	Cap screw	M6 x 90	4	4	
185	74315814	Hanging spring	5594212	4	4	
186	74315817	Cylinder cap	826179	2	2	
187	74315805	Cylinder	826191a	2	2	
188	74315813	Return spring	826047a	2	2	
189	74317834	Piston	6013561 A=137	2	2	
190	74316011 (58352809)	O-ring	P-32	2	2	
191	74316016	Back-up ring	P-32-T2	2	2	
192	74316027	Steel ball	#3/16	2	2	
193	74314807	Set screw	M6 x 10	2	2	
194	74316012 (10206606)	O-ring	P-22	2	2	
195	74316017	Back-up ring	P-22-T2	2	2	
196	74315825	Clamper	826194	2	2	
197	74304617 (74161354)	Clamp plate	816025b	2	2	
198	74319117	Countersink head socket screw	M5 x 12	8	8	
199	74316020	Straight pin	Φ8 x 63	2	2	
200	74319128	Set screw (cone end)	M10 x 10	2	2	
201	74316021	Straight pin	Φ8m6 x 36	2	2	
202	74315821	Clamp base	826193	2	2	
203	74300606 (44235241)	Cap screw	M8 x 20	8	8	
204	74316022	Straight pin (with screw)	Φ10m6 x 32	4	4	
205	74305214	Snap ring	STW-20	8	8	
206	74303526	Stroke shaft	826187	4	4	
207	74306405	Set screw (cup end)	M6 x 6	8	8	
208	74305501	Set screw (cone end)	M4 x 4	4	4	
209	74303528	Stroke bearing	6010232	4	4	
210	74318109	Nail	826088	2	2	with copper chip
211	74319121	Button head socket screw	M3 x 10	4	4	with copper chip
212	74318101	Clamper	6510744a	2	2	with copper chip
213	74318105	Clamp plate	819138	2	2	with copper chip B

Unit No. 38
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.



SECTION "B - B"



Unit No. **38**

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
214	74317402	Loading clamp ass'y	6014440b	2	2	
215	74317903	Stop pin	826252a	2	2	~ Dec. '88
216	74305504	Set screw (flat end)	M6 x 6	2	2	
217	74317823	Retainer	6016671a	2	2	
218	74318241	Cone disk spring	MDS7-3	4	4	
219	74317827	Stopper plate	6016672	2	2	
220	74304904	Cap screw	M6 x 30	4	4	
221	74318201	Roller follower	NART-5UUR	2	2	
222	74318205	Needle roller	Φ5 x 19.8	2	2	
223	74319127	Set screw (cup end)	M5 x 6	4	4	
224	74315825	Clamper	826194	2	2	
225	74316020	Straight pin	Φ8 x 63	2	2	
226	74319128	Set screw (cone end)	M10 x 10	2	2	
227	74315821	Clamp base	826193	2	2	
228	74300606 (44235241)	Cap screw	M8 x 20	8	8	
229	74316022	Straight pin (with screw)	Φ10m6 x 32	4	4	
230	74317929	Stopper	6016676	4	4	
231	74314406	Cap screw	M5 x 30	4	4	
232	74318005	Arm lock	6013541a	2	2	
233	74317923	Bracket side (L)	6016674b	2	2	
234	74318202	Cam follower	CF6-UU	2	2	
235	74301626 (75168508)	Cap screw	M6 x 25	4	4	
236	74318009	Scraper (1)	6013538a	4	4	
237	74302810	Cap screw	M5 x 10	8	8	
238	74318010	Scraper (2)	6013539	4	4	
239	74302810	Cap screw	M5 x 10	8	8	
240	74318032	L.S. spring	6014442	4	4	
241	74318001	Switch head	7950051	4	4	
242	74314401	Cap screw	M4 x 10	8	8	
243	74317919	Holder	6016673b	2	2	
244	74318019	Cap cylinder	6013550a	2	2	
245	74302815	Cap screw	M6 x 20	8	8	
246	74300604	Cap screw	M6 x 15	2	2	
247	74318219	O-ring	P-20	2	2	
248	74318220 (58140710)	O-ring	G-45	2	2	
249	74303024 (52110303)	O-ring	P-44	2	2	
250	74318210	Spherical support	GE-8E	4	4	
251	74317902	Pin (B)	6016666	4	4	
252	74314615 (36181516)	Snap ring	STW-8	8	8	
253	74317924	Bracket side (R)	6016675b	2	2	

Unit No. **38**
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
254	74318202	Cam follower	CF6-UU	2	2	
255	74301626	Cap screw	M6 x 25	4	4	
256	74318219	O-ring	P-20	2	2	
257	74318015	Piston	6013540a	2	2	
258	74318215	Snap ring	BR-30	2	2	
259	74318209	Spherical support	GE-17ES	2	2	
260	74318023	Collar	6013552a	2	2	
261	74319132	Nut	M16 x 1.5	2	2	
262	74314206	Washer	M16	2	2	
263	74317809	Shoulder bolt	6016663	4	4	
264	74319133	Set screw (cone end)	M5 x 8	4	4	
265	74318232 (10558706)	Coupler	SP-1P	4	4	
266	74318228	Tee	SK-1001	2	2	
267	74318229	Nipple	SK-201	2	2	
268	74318214 (76074206)	Snap ring	STW-6	2	2	
269	74318230	Tee	SK-20	2	2	
270	74318226	Socket	SK-102	2	2	
271	74318232 (10558706)	Coupler	SP-1P	4	4	
272	74319130	Set screw (dog end)	M10 x 17	4	4	
273	74306405	Set screw (cup end)	M6 x 6	4	4	
274	74303731	Cushion	806009	8	8	
275	74305020	Countersink head socket screw	M5 x 12 (UNBRAKO)	4	4	
276	74304620 (74161353)	Stopper plate	816026b	4	4	
277	74303816	Insert	806073	4	4	
278	74306405	Set screw (cup end)	M6 x 6	4	4	
279	74315814	Hanging spring	5594212	4	4	
280	74304955	Cap screw	M6 x 90	4	4	
281	74318236	Scraper	SDR-20	2	2	
282	74317832	Piston (B)	826256a	2	2	
283	74318237	Scraper	SDR-36	2	2	
284	74318020	Cylinder	826257a	2	2	
285	74300604	Cap screw	M6 x 15	12	12	
286	74317108 (10316803)	O-ring	P-50	2	2	
287	74317112	Back-up ring	P50-T2	2	2	
288	74316013 (10316425)	O-ring	P-36	2	2	
289	74316018	Back-up ring	P36-T2	2	2	
290	74318219	O-ring	P-20	4	4	
291	74318217	Back-up ring	P20-T2	4	4	
292	74316014 (54119622)	O-ring	P-38	2	2	
293	74316019	Back-up ring	P38-T2	2	2	

Unit No. **38**

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
294	74317829	Return spring	826255a	2	2	
295	74304617 (74161354)	Clamp plate	816025b	2	2	
296	74305020	Countersink head socket screw	M5 x 12 (UNBRAKO)	8	8	
297	74316027	Steel ball	#3/16	4	4	
298	74305504	Set screw (flat ball)	M6 x 6	4	4	
299	74316011 (58352809)	O-ring	P-32	2	2	
300	74316016	Back-up ring	P32-T2	2	2	
301	74317833	Piston	826254b	2	2	
302	74316021	Straight pin	Ø8m6 x 36	2	2	
303	74316010 (10001121)	O-ring	P-26	2	2	
304	74316015 (43121308)	Back-up ring	P26-T2	2	2	
305	74317803	Cylinder	826253a	2	2	
306	74317819	Pointer	6013551	2	2	
307	74305016	Pan head machine screw	M5 x 8	4	4	
308	74317814	Lock arm (B)	6016665	4	4	
309	74317813	Lock arm (A)	6016664	4	4	
310	74317806	Clamp housing	6014441a	2	2	
311	74309934	Coupler	PN1-6-PT 1/8-BS	2	2	
312	74318027	Detector bar	6013554	2	2	
313	74319117	Countersink head socket screw	M5 x 12	4	4	
314	74317901	Pin (A)	6016667	8	8	
315	74314616	Snap ring	STW-10	16	16	
316	74317911	Pressure nut	6016669a	4	4	
317	74302818	Cap screw	M8 x 30	4	4	
318	74317907	Lock plate	6016668a	4	4	
319	74317915	Plate	6016670	2	2	
320	74319118	Countersink head socket screw	M6 x 16	6	6	
321	74303718	Spacer	826016b	4	4	
322	74305031 (74163416)	Head	6WPH200-1	4	4	
323	74304936	Cap screw	M4 x 16 (UNBRAKO)	16	16	
324	74303727	Spring	826015c	4	4	
325	74304810	Head cover	826017	4	4	
326	74319129	Set screw	M6 x 8	2	2	
327	74316027	Steel ball	#3/16	2	2	
328	74303528	Stroke bearing	6010232	4	4	
329	74319131	Set screw (cone end)	M4 x 4	4	4	
330	74303526	Stroke shaft	826187	4	4	
331	74305214	Snap ring	STW-20	8	8	
332	74306405	Set screw (cup end)	M6 x 6	8	8	
333	74303816	Insert	806073	4	4	

Unit No. **38**
Clamp positioner

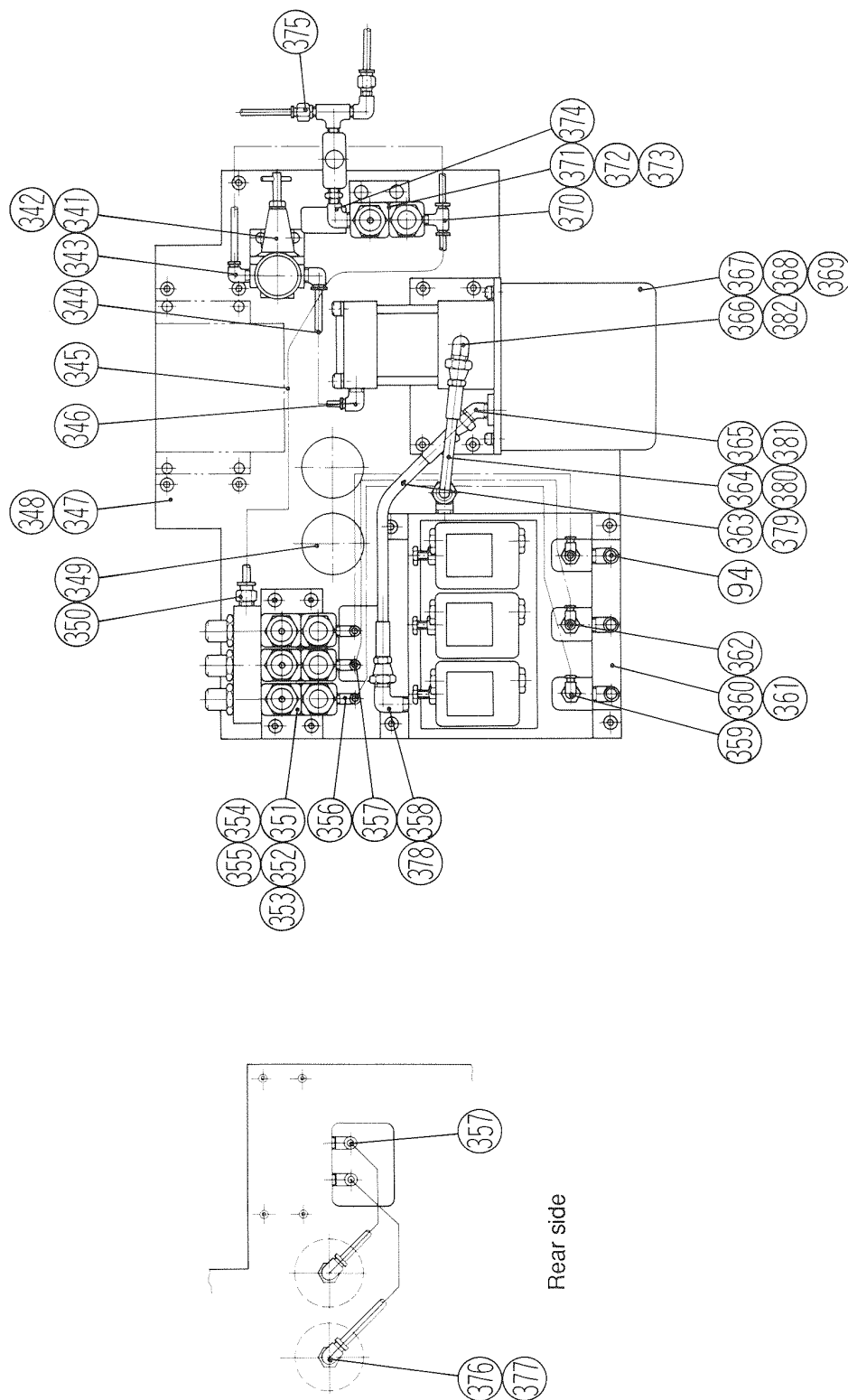
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 38

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 38

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
340	74318303	Unit ass'y	6019061d	1	1	d: Jan. '89 ~
341	74318918	Regulator	AR200-02B	1	1	
342	74318919	Pressure gauge	G46-10-02	1	1	
343	74315308	Elbow	PL6-PT 1/4"	2	2	
344	74311822 (75169501)	Tube	N2-1-1/4 L=0.2 m	1	1	
345	74318933	Tube	N2-4-6 x 4 L=1.6 m	1	1	
346	74315308	Elbow	PL6-PT 1/4	1	1	
347	74318301	Unit bracket	6019062e	1	1	
348	74300606 (44235241)	Cap screw	M8 x 20	4	4	
349	74309205	Pressure switch	7931003	2	2	
350	74318926	Male connector	PC6-PT 3/8	1	1	
351	74318901	Solenoid valve	E108-033EC	1	1	
352	74302817 (73157630)	Cap screw	M8 x 15	4	4	
353	74300518	Spring washer	M8	4	4	
354	74317120	Silencer	SA-8	3	3	
355	74315115 (44552306)	Plug	PT 3/8"	1	1	
356	74315308	Elbow	PL6-PT 1/4"	1	1	
357	74310326	Tee	PT6-PT 1/4"	3	3	
358	74311827	90° elbow	E-10 x 1/4"	1	1	~ C67708 ~ C57977
359	74315308	Elbow	PL6-PT 1/4"	1	1	
360	74318912	Paschal valve	7832011a	1	1	
361	74314411	Cap screw	M8 x 50	4	4	
362	74318925	Service tee	PST6-PT 1/4"	2	2	
363	74318306	Copper pipe	6019064	1	1	~ C67708 ~ C57977
364	74318305	Copper pipe	6019063	1	1	~ C67708 ~ C57977
365	74311815	Connector	S-10 x 1/4"	1	1	~ C67708 ~ C57977
366	74311827	90° elbow	E-10 x 1/4"	2	2	~ C67708 ~ C57977
367	74318907	Power unit	7832010b	1	1	b: Aug. '89 ~
368	74302817	Cap screw	M8 x 15	4	4	
369	74300518 (10001521)	Spring washer	M8	4	4	
370	74318924	Service tee	PST10-PT 1/4"	1	1	
371	74318902	Solenoid valve	3EP-08E	1	1	
372	74300606 (44235241)	Cap screw	M8 x 20	2	—	
372	74302810	Cap screw	M5 x 40	—	3	
373	74317120 (74162502)	Silencer	SA-8	1	1	
374	74311831	Male-female elbow	PT 1/4"	1	1	
375	74318930	Plug	BC10	1	1	without L. pin
376	74315308	Elbow	PL6-PT 1/4"	2	2	
377	74309915 (75169924)	Nipple	PT 1/4"	2	2	
378	74318929	90° elbow	1033-04	1	1	C67709 ~ C57978 ~

Unit No. 38

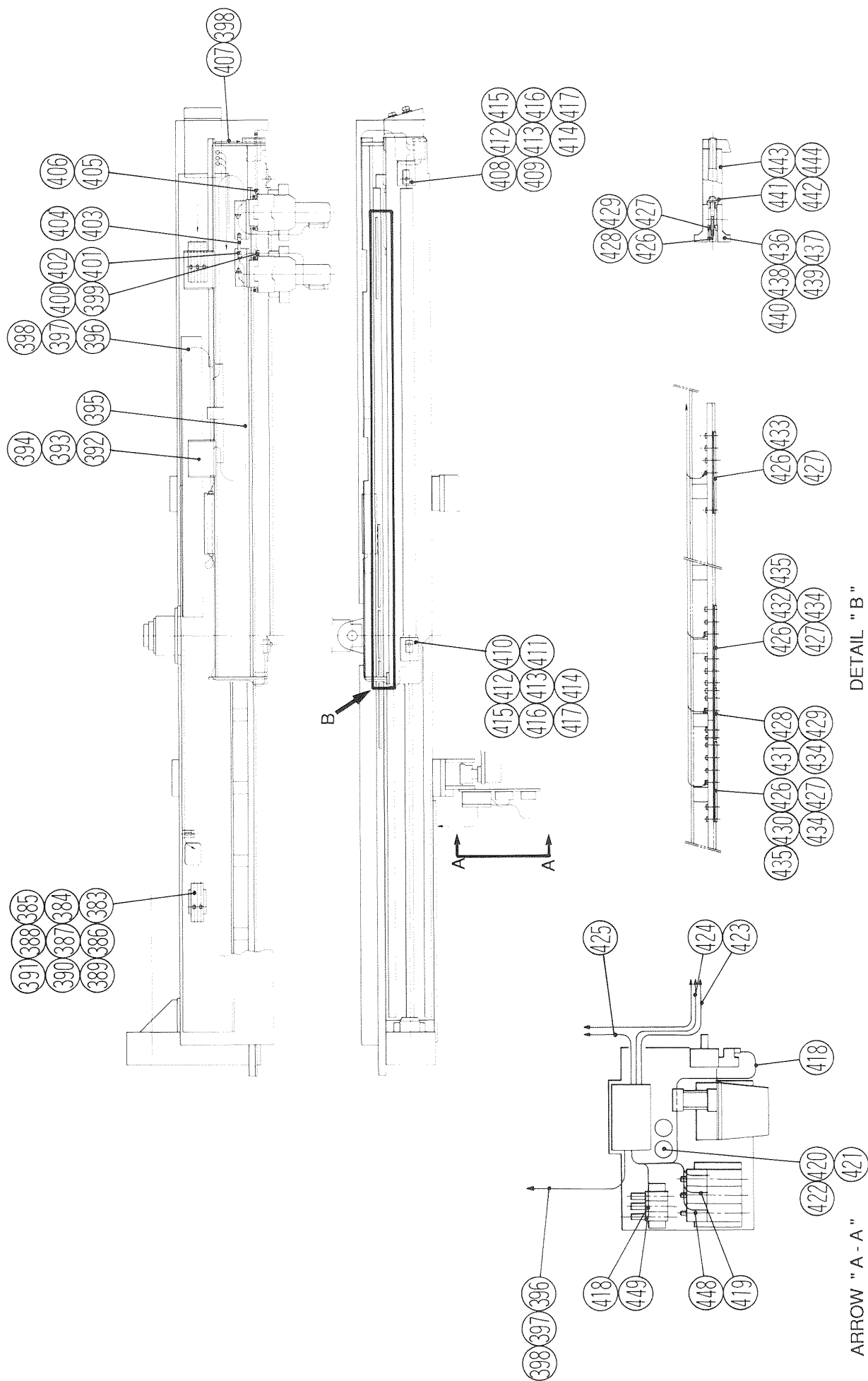
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 38
Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 38

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
383	74318501	LS setting plate (A)	6014109b	5	5	
384	74304905	Cap screw	M6 x 35	10	10	
385	74300517 (44027928)	Spring washer	M6	10	10	
386	74318915 (61164817)	Limit switch	ZC-Q2255	5	5	
387	74319109	Pan head machine screw	M4 x 90	2	2	
388	74307625	Pan head machine screw	M4 x 60	2	2	
389	74300515 (44027327)	Spring washer	M4	4	4	
390	74300510	Washer	M4	4	4	
391	74300501	Nut	M4	4	4	
392	74318513	Dog bracket	6013514b	2	2	
393	74300604	Cap screw	M6 x 15	6	6	
394	74302328 (44027930)	Washer	M6	6	6	
395	74318726	Cable (CL-1)	6013515-4c	1	1	with Y. sensor
396	74318709	Cable (CC-1)	6019145a	1	1	
397	74318701	Mechatro tube	7950050b	1	1	
398	74319017	Electro tap	171425-1	21	21	
399	74318530	Proximity switch ass'y	6014373	1	1	
400	74318533	Proximity switch	7833001	1	1	
401	74318531	Proximity switch ass'y	6014374	1	1	
402	74318533	Proximity switch	7833001	1	1	
403	74318509	Dog	6019147	1	1	
404	74300604	Cap screw	M6 x 15	2	2	
405	74318529	Proximity switch ass'y	6014372	1	1	
406	74318533	Proximity switch	7833001	1	1	
407	74318712	Cable (CT-1)	6013582-1c	1	1	
408	74318528	Limit switch ass'y	6014371	1	1	
409	74318532	Limit switch	7833000	1	1	
410	74318527	Limit switch ass'y	6014370	1	1	
411	74318532	Limit switch	7833000	1	1	
412	74319002	Universal bushing	UB-875	3	3	
413	74318505	L.S. bracket	6013597b	2	2	
414	74302812	Cap screw	M6 x 10	8	8	
415	74319108	Pan head machine screw	M4 x 22	4	4	
416	74300515	Spring washer	M4	4	4	
417	74300510	Washer	M4	4	4	
418	74318721	Cable (E-3)	6013587-3a	1	1	
419	74318722	Cable (E-4)	6013587-4a	1	1	
420	74308182	Cable (E-5)	IV 1.25 mm ² x 0.8 m red	2	2	
421	74520118	Lug terminal	F1.25-3.5	4	4	
422	74520109	Band	CV-100	2	2	

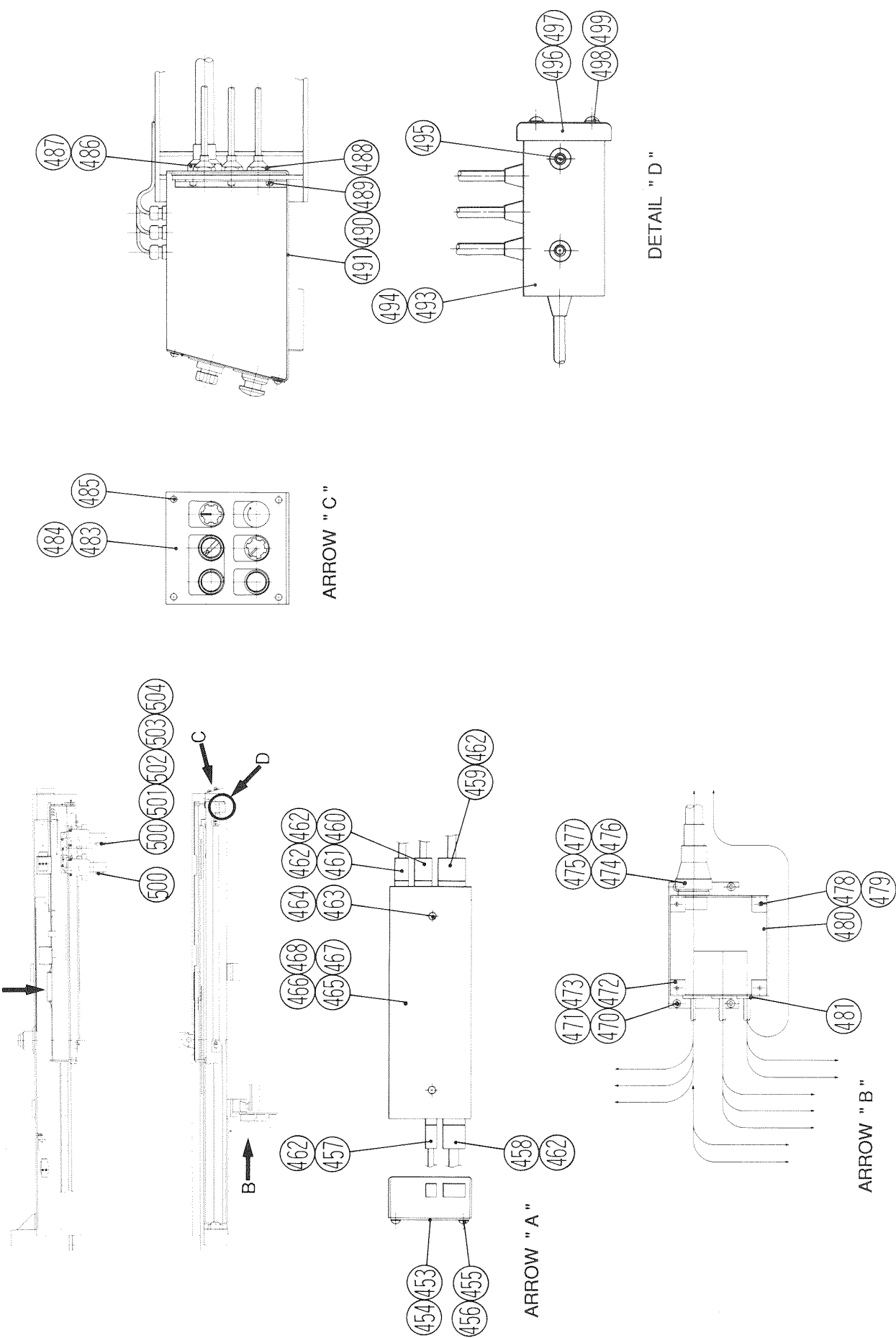
Unit No. 38

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 38
 Clamp positioner (loading clamp) From serial No. C67679 (506072), C57982 (505072) and after.



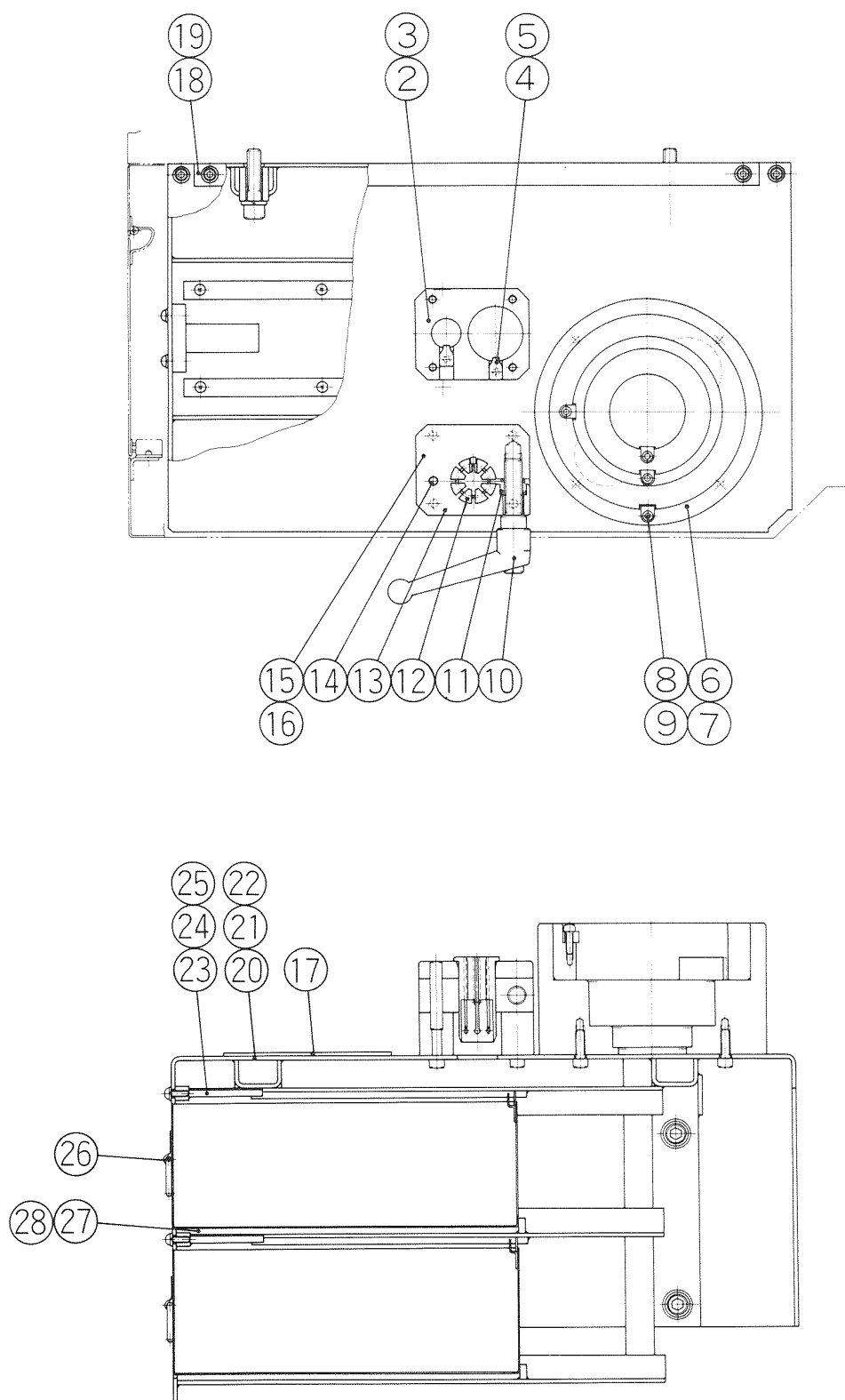
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
452	74318601	Junction box CC ass'y	6013522b	1	1	
453	74318616	Box cover	6013584	1	1	
454	74319021	Rubber	5 x 10 x 540	1	1	
455	74305017	Pan head machine screw	M5 x 10	4	4	
456	74307606 (44552819)	Washer	M5	4	4	
457	74319045	Connector	172158-1 3P green	1	1	
458	74319046	Connector	172160-1 6P white	1	1	
459	74319047	Connector	172162-1 12P white	1	1	
460	74319049	Connector	172159-1 4P white	1	1	
461	74319048	Connector	172157-1 2P red	1	1	
462	74319053	Socket	170366	27	27	
463	74300604	Cap screw	M6 x 15	2	2	
464	74302328 (44027930)	Washer	M6	2	2	
465	74318607	Box CC	6013673a	1	1	a: June '89 ~
466	74318705	Cable CCM	6013522-1d	1	1	
467	74314523 (44027304)	Saddle	CH-6	10	10	
468	74300706	Pan head machine screw	M5 x 16	10	10	
469	74318603	Junction box E ass'y	6013587e	1	1	
470	74300604	Cap screw	M6 x 15	4	4	
471	74302328	Washer	M6	4	4	
472	74318609	Box E	6013588b	1	1	
473	74318718	Cable E	6013587-8a	1	1	
474	74319004	Connector	TB-1926	1	1	
475	74319009	Connector	AYBN011-1	2	2	
476	74319107 (52106232)	Pan head machine screw	M4 x 12	4	4	
477	74300515 (44027327)	Spring washer	M4	4	4	
478	74319107	Pan head machine screw	M4 x 12	4	4	
479	74300510	Washer	M4	4	4	
480	74318619	Box cover	6013589a	1	1	
481	74319003	Connector	TB-1520	5	5	
482	74318625	Control box ass'y	6014132a	1	1	a: June '89 ~
483	74307310	Control panel	6018371a	1	1	May '89 ~
484	74319022	Sponge	6 x 6 x 650	1	1	
485	74307628	Bind screw	M5 x 10	4	4	
486	74308127	Code lock	NC-2	1	1	
487	74519631	Cable (CR-1)	6013671-1	1	1	
488	74308126 (36004615)	Code lock	NC-1	6	6	Q'ty 5 → 6: June '89 ~
489	74300604	Cap screw	M6 x 15	6	6	
490	74302328	Washer	M6	6	6	
491	74318628	Control box	6014134c	1	1	c: June '89 ~

Unit No. 38

Clamp positioner

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]



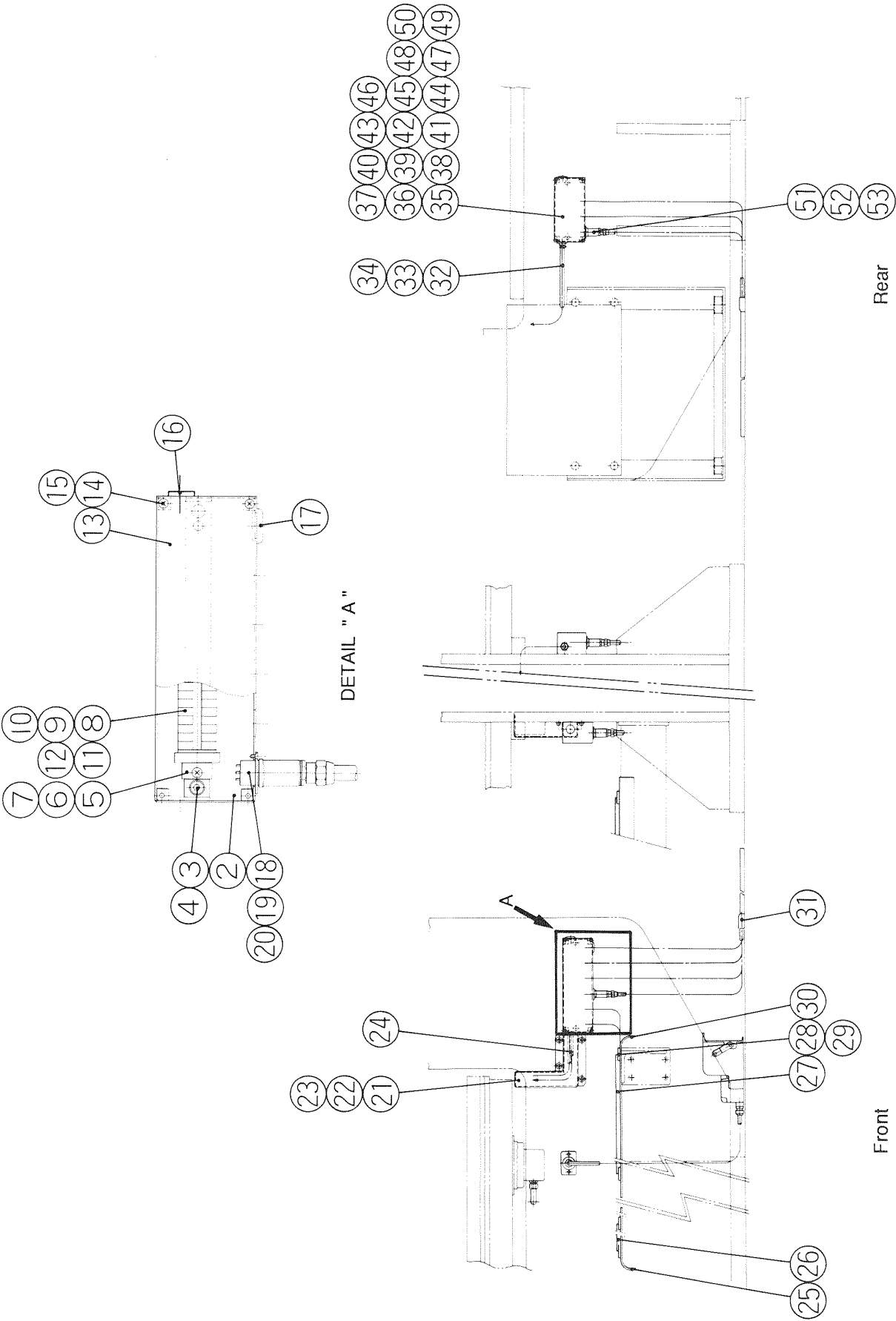
Unit No. 39

Punch assembly jig

From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 40

Safety mat

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74312037	Safety mat ass'y	6018790	1	1	
2	74312001	Junction box (A)	808594a	1	1	
3	74300606 (44235241)	Cap screw	M8 x 20	2	2	
4	74300518 (10001521)	Spring washer	M8	2	2	
5	74312105	Rale	BNP 262.5 L	1	1	
6	74305016 (58250511)	Pan head machine screw	M5 x 8	2	2	
7	74300516 (44027927)	Spring washer	M5	2	2	
8	74312101	Terminal block	BN15	24	24	
9	74312110	Clamp	BNL3	2	2	
10	74312114	End plate	BNE15	2	2	
11	74312118	Mark sheet	BNM3 210 L	1	1	
12	74342644	Terminal cover	BNC22 210 L	1	1	
13	74312007	Cover	808602	1	1	
14	74305016 (58250511)	Pan head machine screw	M5 x 8	4	4	
15	74300516 (44027927)	Spring washer	M5	4	4	
16	74312128	Grommet	C-30-SG-22A	1	1	
17	74312127 (74316723)	Grommet	C-30-SG-26A	3	3	
18	74312132	Receptacle	NCS-254-RF	6	6	
19	74312131	Short plug	HCS-254-SPM	1	1	
20	74319119	Countersink head machine screw	M3 x 6	18	18	
21	74312013	Wiring cover	6018348	1	1	
22	74304817	Button head socket screw	M8 x 15	4	4	
23	74300511	Washer	M8	4	4	
24	74312026	Cable (T-15)	6018230	1	1	
25	74312041	Step (L)	821463	1	1	
26	74312034	Mat switch (D)	808608a	1	1	
27	74312033	Mat switch (E)	819128	1	1	
28	74312021	Stopper	808603	8	8	
29	74307903	Countersink head machine screw	M6 x 12	16	16	
30	74312017	Step (R)	6018380	1	1	
31	74312029	Mat switch (A)	808596a	8	8	
32	74312134	SO cable	1.25 mm ² x 4 ^C x 3 m	1	1	
33	74342832	Lug terminal	1.25-YS3A	8	8	
34	74308126	Code lock	NC-1	2	2	
35	74312002	Junction box (B)	808606a	1	1	
36	74300606 (44235241)	Cap screw	M8 x 20	2	2	
37	74300518 (10001521)	Spring washer	M8	2	2	
38	74312008	Cover	808607	1	1	
39	74305016 (58250511)	Pan head machine screw	M5 x 8	4	4	
40	74300516 (44027927)	Spring washer	M5	4	4	

Unit No. 40

Safety mat

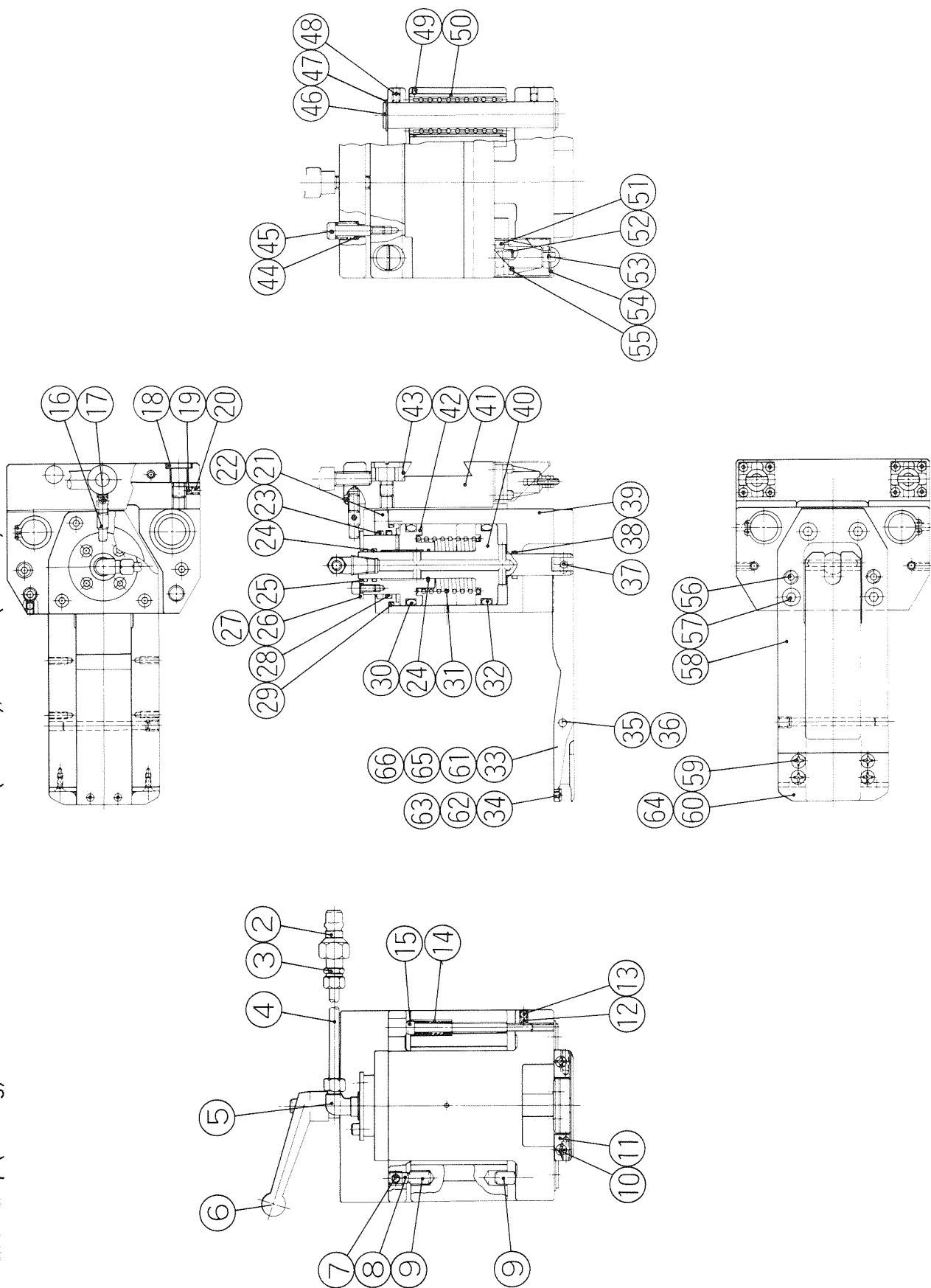
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 41

Pneumatic clamp (loading)

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 41

Pneumatic clamp (loading)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74317406	Clamp ass'y	826260a	2	2	
2	74305411	Coupler	20PF (1/4")	2	2	
3	74309943 (21104107)	Nipple	A-6 x 4-PT 1/4-BS	2	2	
4	74305304 (75169501)	Tube	30-06 L=1 m	2	2	
5	74305520 (21104211)	Elbow	B-6 x 4-PT 1/4-BS	2	2	
6	74305232 (74161343)	Lever	KR10 x 20	2	2	
7	74305509	Set screw (dog end)	M10 x 14	4	4	
8	74306405	Set screw (cup end)	M6 x 6	4	4	
9	74303731	Cushion	806009	8	8	
10	74305019 (74161383)	Countersink head socket screw	M4 x 10 (UNBRAKO)	4	4	
11	74304620	Stopper	816026c	4	4	c: Nov. '89 ~
12	74303816	Insert	806073	4	4	
13	74306405	Set screw (cup end)	M6 x 6	4	4	
14	74303505	Hanging spring	826218	4	4	
15	74304907	Cap screw	M6 x 85	4	4	
16	74317427 (43136606)	Stopper	826268a	2	2	
17	74319134	Set screw (flat end)	M4 x 4	2	2	
18	74304611	Pressure pin	816005b	4	4	
19	74303816	Insert	806073	4	4	
20	74305504	Set screw (flat end)	M6 x 6	4	4	
21	74317416 (43136706)	Cylinder cap	826263a	2	2	
22	74302812	Cap screw	M6 x 10	8	8	
23	74318238 (43136751)	Scraper	SER-44	2	2	
24	74318219	O-ring	P-20	4	4	
25	74318239 (43136750)	Scraper	SER-20	2	2	
26	74317424 (43136614)	Cover	826266	2	2	
27	74302812	Cap screw	M6 x 10	8	8	
28	74303024	O-ring	P-44	2	2	
29	74318221 (10317606)	O-ring	G-55	2	2	
30	74305202 (10317120)	O-ring	P-50A	2	2	
31	74317430 (43136516)	Spring	826269a	2	2	a: June '89 ~
32	74305202	O-ring	P-50A	2	2	
33	74303517	Clamper	826227a	2	2	
34	74305513	Set screw (cone end)	826186	4	4	
35	74336103	Straight pin	φ6h7 x 63	2	2	
36	74305515	Set screw (cone end)	M8 x 8	2	2	
37	74303803	Straight pin	φ5m6 x 36	2	2	
38	74305204 (36110501)	O-ring	P-16	2	2	
39	74317413 (43136627)	Cylinder	826262a	2	2	
40	74317419 (43136631)	Piston	826264c	2	2	c: June '89 ~

Unit No. 41

Pneumatic clamp (loading)

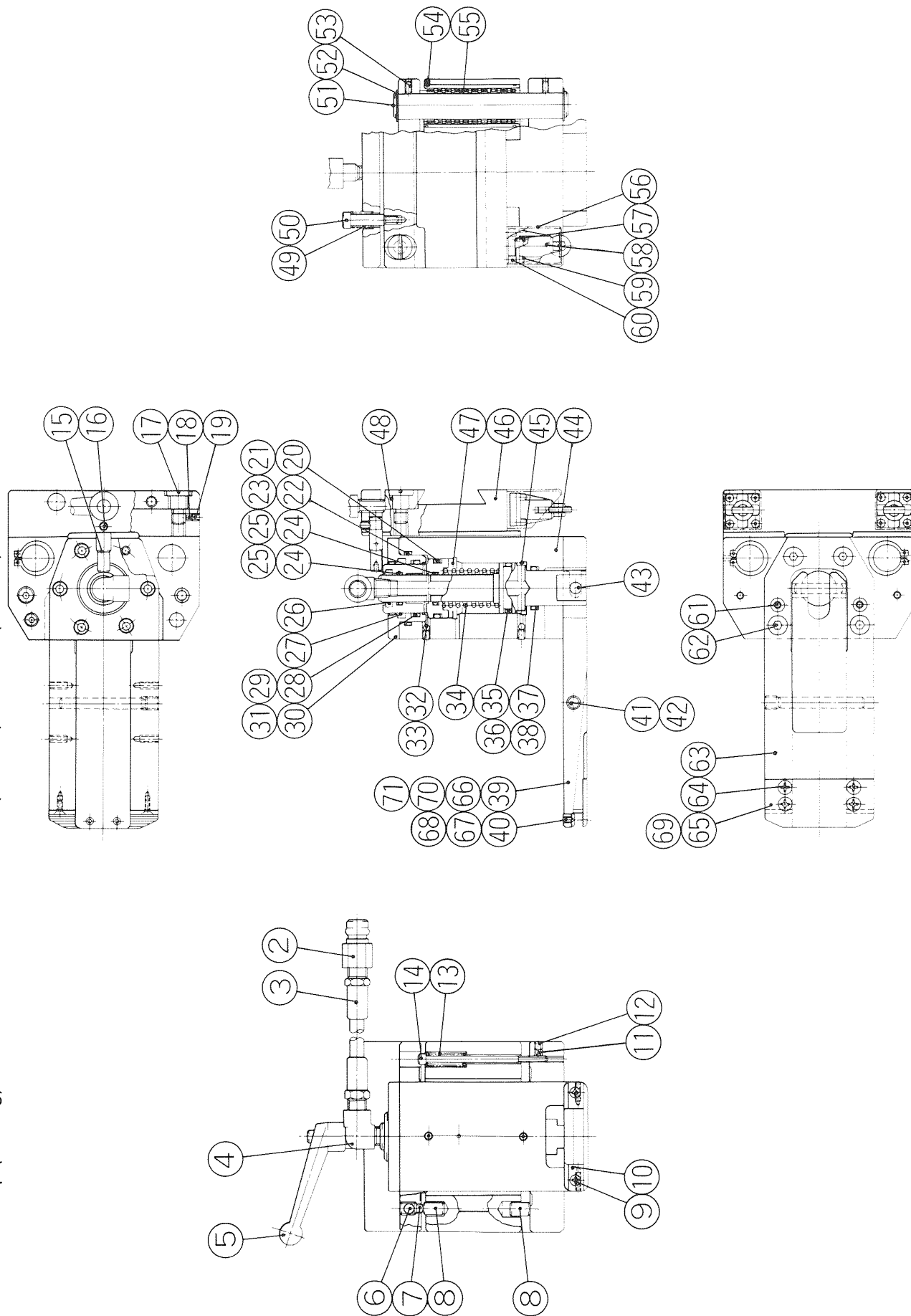
From serial No. C67679 (506072), C57982 (505072) and after.

[illegible]

Unit No. 42

Hydraulic thin clamp (loading)

From serial No. C67679 (506072), C57982 (505072) and after.



Unit No. 42

Hydraulic thin clamp (loading)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
1	74317404 (74161566)	Clamp ass'y	826250b	2	2	
2	74316006	Coupler	HSP-2HP (1/4")	2	2	
3	74315830	Hydraulic hose	827577c	2	2	
4	74319006	Elbow	LF-2/SK-602	2	2	
5	74305232	Lever	KR10-20	2	2	
6	74306405	Set screw (cup end)	M6 x 6	4	4	
7	74319130	Set screw (dog end)	M10 x 17	4	4	
8	74303731	Cushion	806009	8	8	
9	74305026	Countersink head socket screw	M4 x 12 (UNBRAKO)	4	4	
10	74304620	Stopper plate	816026b	4	4	c: Nov. '89 ~
11	74303816	Insert	806073	4	4	
12	74306405	Set screw (cup end)	M6 x 6	4	4	
13	74315814	Hanging spring	5594212	4	4	
14	74304955	Cap screw	M6 x 90	4	4	
15	74317903	Stop pin	826252a	2	2	
16	74306405	Set screw (cup end)	M6 x 6	2	2	
17	74304611	Pressure pin	816005b	4	4	
18	74303816	Insert	806073	4	4	
19	74306405	Set screw (cup end)	M6 x 6	2	2	
20	74316014	O-ring	P-38	2	2	
21	74316019	Back-up ring	P38-T2	2	2	
22	74317108	O-ring	P-50	2	2	
23	74317112	Back-up ring	P50-T2	2	2	
24	74318219	O-ring	P-20	4	4	
25	74318217	Back-up ring	P20-T2	4	4	
26	74318236	Scraper	SDR-20	2	2	
27	74318237	Scraper	SDR-36	2	2	
28	74316013	O-ring	P-36	2	2	
29	74316018	Back-up ring	P36-T2	2	2	
30	74318020	Cylinder cap	826257a	2	2	
31	74300604	Cap screw	M6 x 15	12	12	
32	74316027	Steel ball	#3/16	4	4	
33	74305504	Set screw (flat end)	M6 x 6	4	4	
34	74317829	Return spring	826255a	2	2	
35	74316011	O-ring	P-32	2	2	
36	74316016	Back-up ring	P32-T2	2	2	
37	74318218 (10001121)	O-ring	P-26	2	2	
38	74318216 (43121308)	Back-up ring	P26-T2	2	2	
39	74315825	Clamper	826194	2	2	
40	74319127	Set screw (cup end)	M5 x 6	4	4	

Unit No. **42**

Hydraulic thin clamp (loading)

From serial No. C67679 (506072), C57982 (505072) and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty		Note
				506072	505072	
41	74316020	Straight pin	Φ8 x 63	2	2	
42	74319128	Set screw (cone end)	M10 x 10	2	2	
43	74316021	Straight pin	Φ8m6 x 36	2	2	
44	74317803	Cylinder	826253a	2	2	
45	74317833	Piston	826254b	2	2	
46	74317409	Clamp housing	826251a	2	2	
47	74317832	Piston B	826256a	2	2	
48	74304608	Lock plate	816004a	2	2	
49	74304614	Release spring	816006	4	4	
50	74304022	Stripper bolt	STO 8 x 25	4	4	
51	74303526	Stroke shaft	826187	4	4	
52	74305214	Snap ring	STW-20	8	8	
53	74306405	Set screw (cup end)	M6 x 6	8	8	
54	74319131	Set screw (cone end)	M4 x 4	4	4	
55	74303528	Stroke bearing	6010232	4	4	
56	74304810	Head cover	826017	4	4	
57	74303727	Spring	826015c	4	4	
58	74305031	Head	6WPH200-1	4	4	
59	74304936	Cap screw	M4 x 16 (UNBRAKO)	16	16	
60	74303718	Spacer	826016b	4	4	
61	74316022	Straight pin (with screw)	Φ10m6 x 32	4	4	
62	74300606 (44235241)	Cap screw	M8 x 20	8	8	
63	74315821	Clamp base	826193	2	2	
64	74305020	Countersink head socket screw	M5 x 12 (UNBRAKO)	8	8	
65	74304617	Clamp plate	816025b	2	2	
66	74318101	Clamper	6510744a	2	2	with copper chip
67	74318109	Nail	826088	2	2	with copper chip
68	74319121	Button head socket screw	M3 x 10	4	4	with copper chip
69	74318105	Clamp plate	819138	2	2	with copper chip B
70	74318102	Clamper	6014445	2	2	open st. 10 mm
71	74318103	Clamper	6014446	2	2	with copper chip & open st. 10 mm
72		Hydraulic pump ass'y	817565a	1	1	on Unit No. 26