SEP. 1991

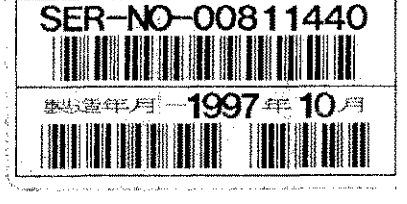
PRESS BRAKE(ZII)

RG80S, RG80 NC9EX

LAPIS SERVICES INC
(219)-464-9131

PARTS LIST

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



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GENERAL INFORMATION

* This parts list shows all of the parts used in your RG-80S, 80 machine.
  Please file this parts list for reference and refer to it when you order parts or maintain the machine.

* This edition has been divided into sections. Each section corresponds to one of the 50 different units making up the machine.

Unit No.

01	Frame
02	Upper beam
03	Lower beam
04	Support plate
05	Upper post
06	Upper limit setting device (1)
07	Upper limit setting device (2)
08	L.S. setting
09	Lower limit setting device
10	Multiple lower limit setting device
11	Guide roller
12	Pedal
13	Pedal lock device
14	Tool holder
15	Speed change setting device
16	Main cylinder
17	Sub cylinder
18	Distributor
19	Hydraulic pump
20	Hydraulic tank
21	Hydraulic piping
22	Hydraulic valve
23	Support (1)
24	Support (2)
25	Stretch
26	Work stopper
27	Pneumatic piping (1)
28	Electric (1)
29	Electrict (2) – STD
30	Electric (3) – Multiple
31	Electric (4) – C-Multiple
32	Pendant arm
33	Pendant box (1)
34	Pendant box (2)
35	Electrical box (1)
36	Electrical box (2)
37	Foot switch box
38	Electric wiring (1)
39	Electric wiring (2)
40	Electric wiring (3)
41	Electric wiring (4)
42	Cover
43	Emergency stop bar
44	Relay box (1)
45	Relay box (2)
46	Standard accessories
47	Flip-up work stopper
48	Pneumatic piping (2)
49	Pneumatic piping (3)
50	Upper limit remote control

* The scale used on each page of drawings is different. Please be aware that parts may seem to be different sizes on different pages.

* Specifications subject to change without notice.

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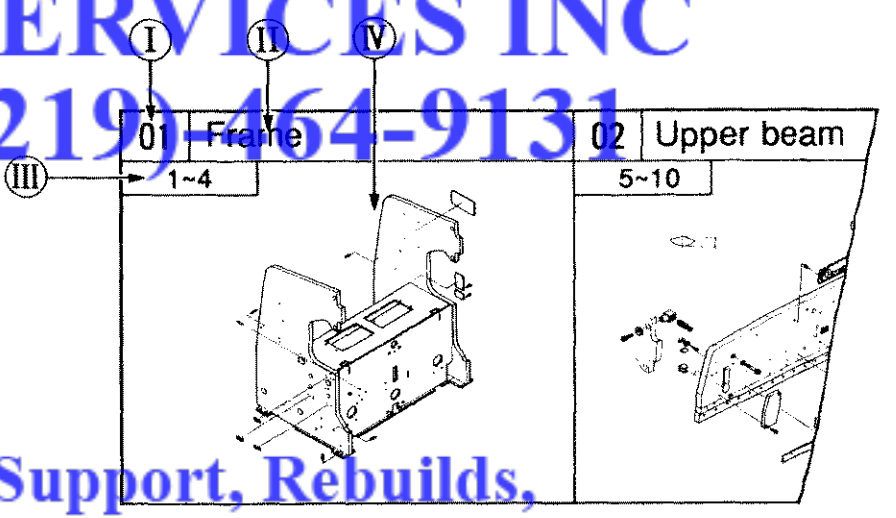
806 Takamori
Isehara-shi, Kanagawa 259-11, JAPAN

Tel. 0463-91-8016
Fax. 0463-91-8126

INTRODUCTION

1. TABLE OF CONTENTS



Ⅰ Unit No.

Ⅱ Unit Name

Ⅲ Corresponding Page Nos.

Ⅳ Assembly drawings shown in the main text.

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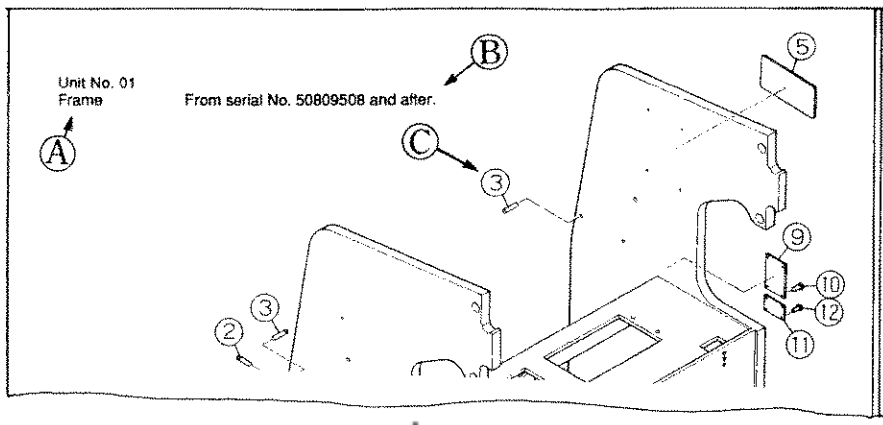
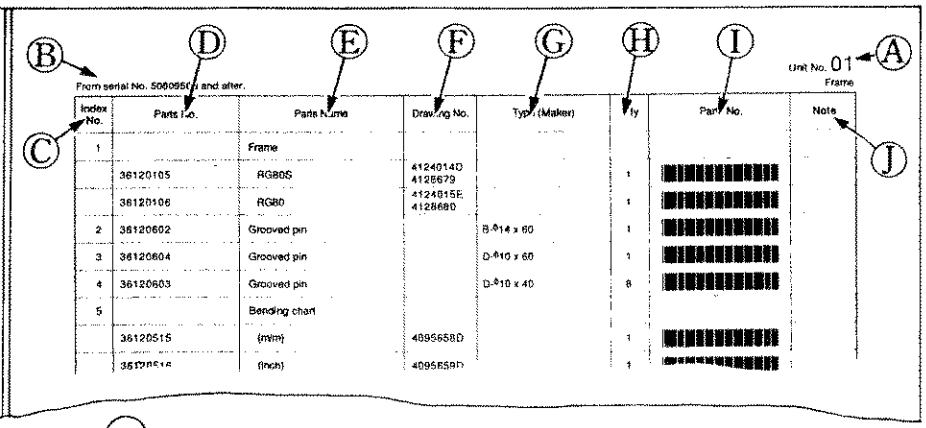
FANUC

2. Main Text





Ⓐ Unit No. and Name

The Unit No. and Name are shown on relevant pages.

Ⓑ Machine Serial No.

The Serial Nos. of machines corresponding to the information shown.

Ⓒ Index No.

The Index No. for each part in a drawing is shown and corresponds to the list of parts for that drawing.

Ⓓ Part No.

The individual Code No. for each part on the RG80S, 80 is shown. Nos. in parentheses represent parts interchangeable with other machines.

Ⓔ Parts Name

The name (description) of each part.

Ⓕ Drawing

The numbers of drawings relevant to the part are given.

Ⓖ Type (Maker)

The type description and manufacturer of each marketed item are shown.

Ⓗ Quantity

The quantity of each part used on the Japanese domestic and export models is shown.

Ⓘ Parts No.

Numbers not in parentheses in Column D are used for the bar code. Use of a bar code scanner assists in more accurate and faster reading of relevant parts numbers.

Ⓙ Notes

Cautions and notes necessary to the ordering of each part.

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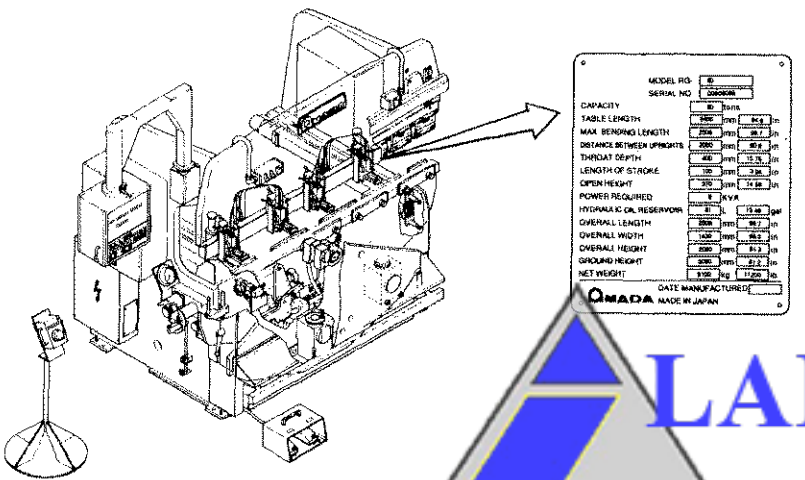
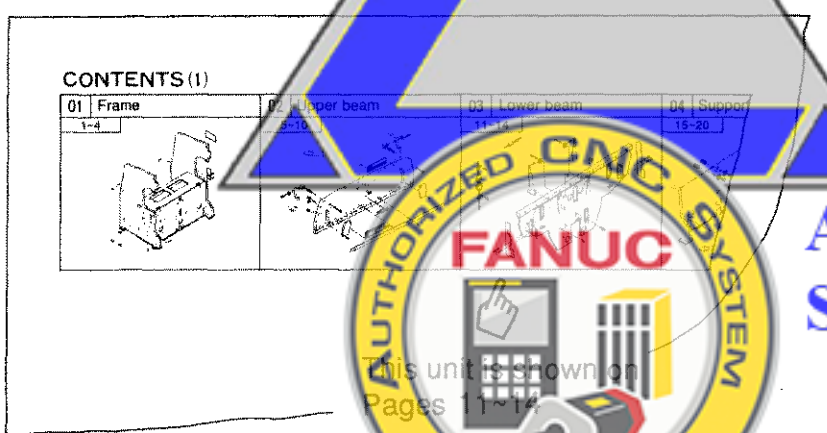
ORDER INSTRUCTIONS

1. Confirm whether the model name and No. on the serial plate of the machine correspond to the numbers of the machines for which the parts list is effective.



2. Use the drawings in the Table of Contents to find the pages on which the part in question is shown in greater detail.



3. Spread out the referred pages.

4. Use the drawings and corresponding lists to confirm the specs, etc. of the part in question.

5. When ordering, please supply the following information:

   (1) Machine Model
   (2) Serial No.
   (3) Parts No.

   * These are the numbers shown outside the parentheses in Column D.

   (4) Quantity

   * If the POS system is in use, operate the bar code scanner over Column I in the main text.

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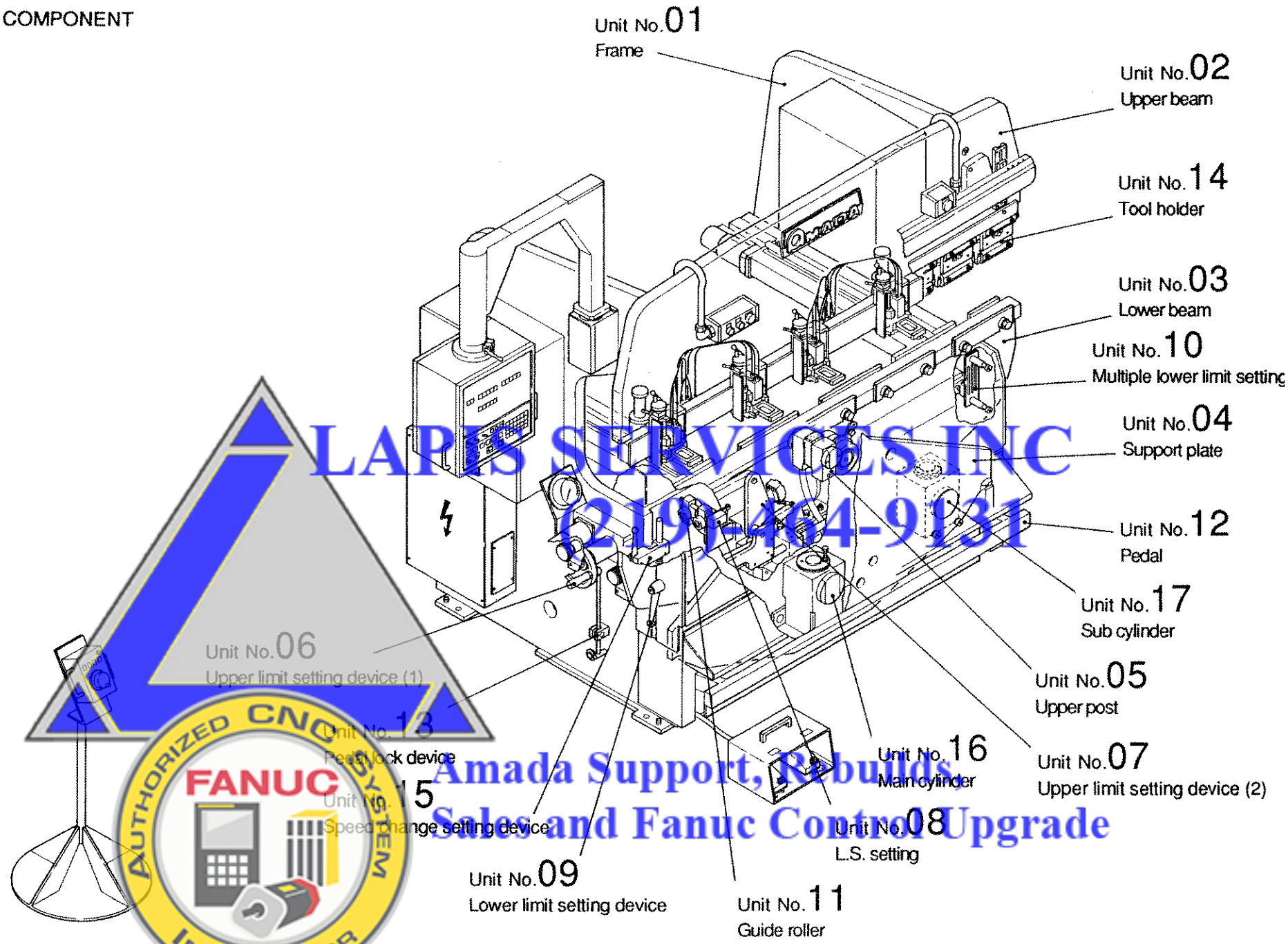
MACHINE COMPONENT



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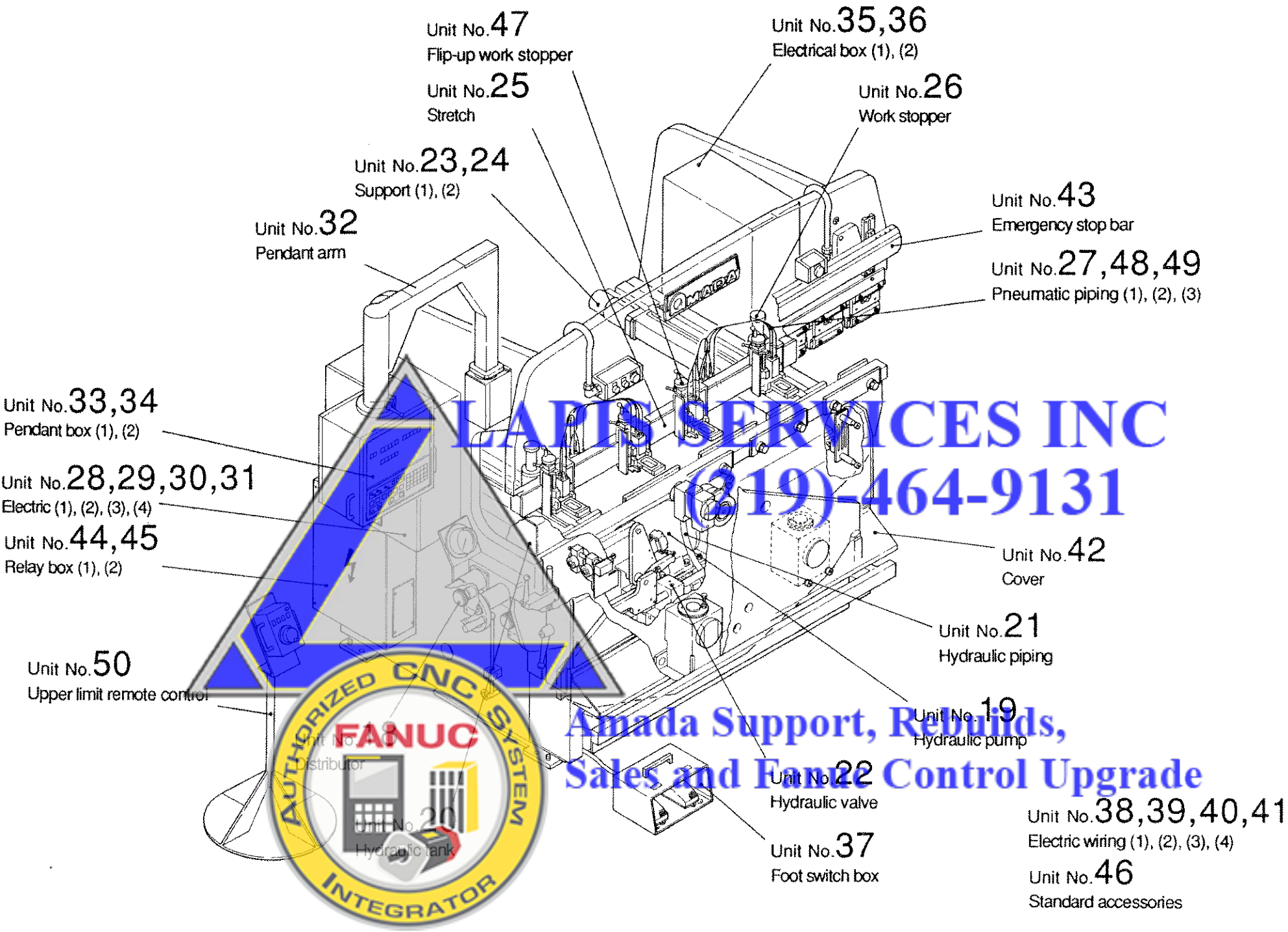

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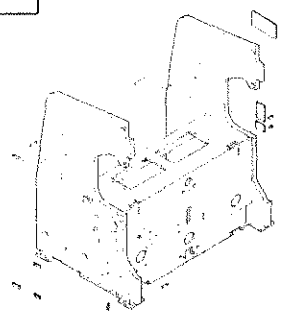
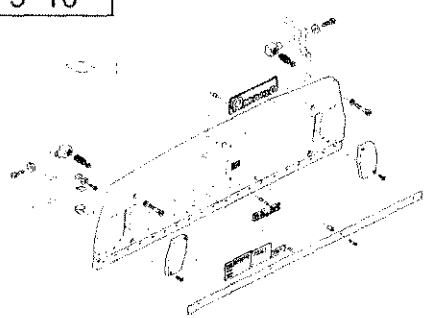
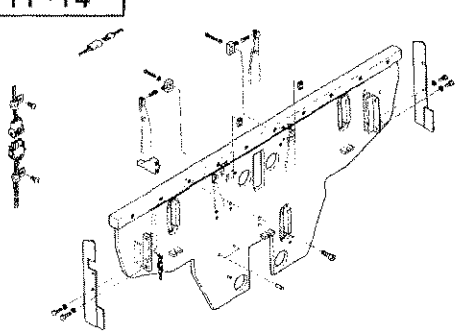
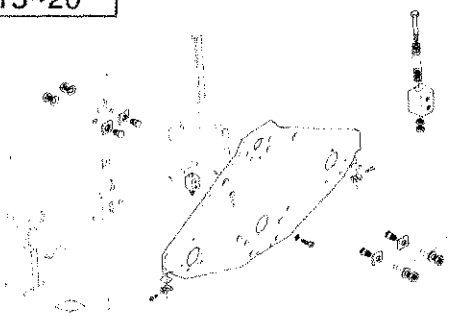
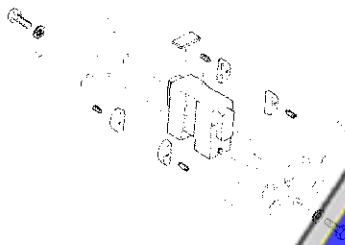
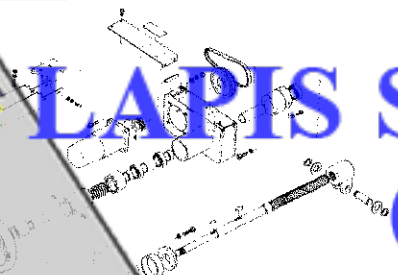
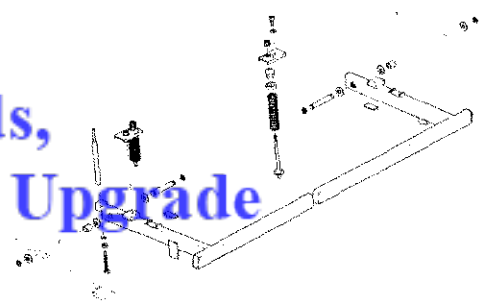
CONTENTS (1)

01 Frame	02 Upper beam	03 Lower beam	04 Support plate
1~4 	5~10 	11~14 	15~20 
05 Upper post	**06 Upper limit setting device (1)**	**07 Upper limit setting device (2)**	**08 L.S. setting**
21~22 	23~30 	31~36	37~40
09 Lower limit setting device	**10 Multiple lower limit setting**	**11 Guide roller**	**12 Pedal**
41~44	45~48	49~50	51~54 

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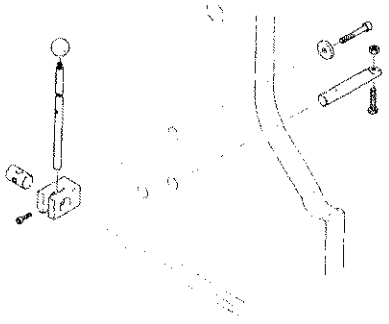
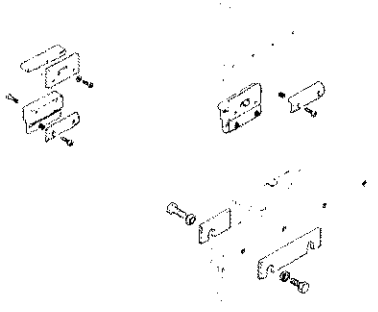
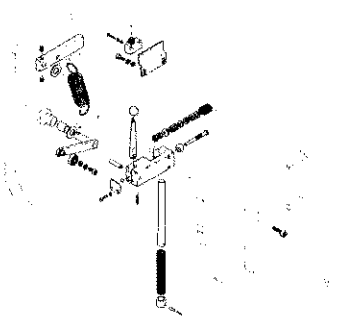
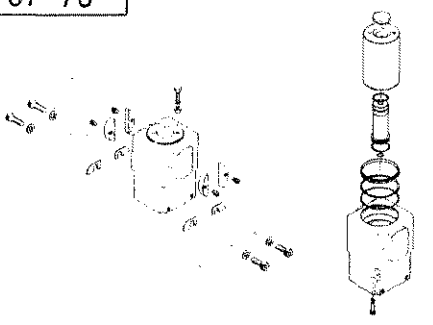
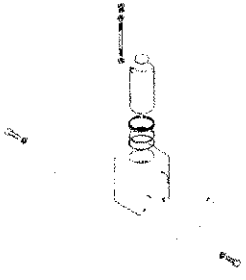
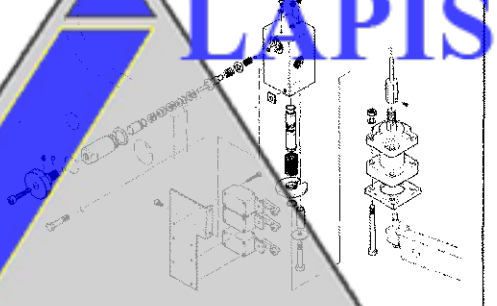
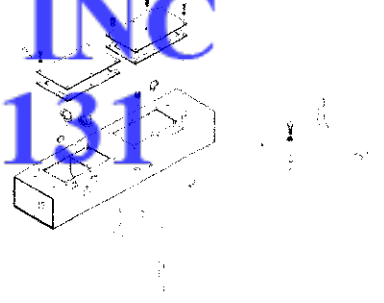
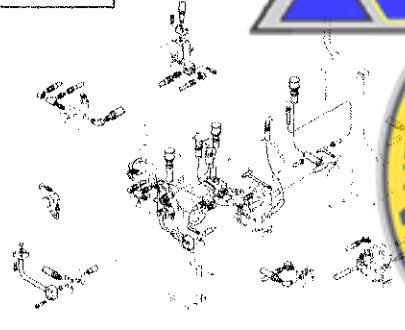
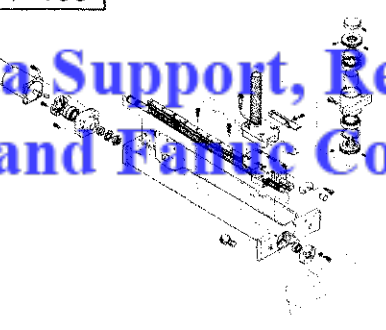
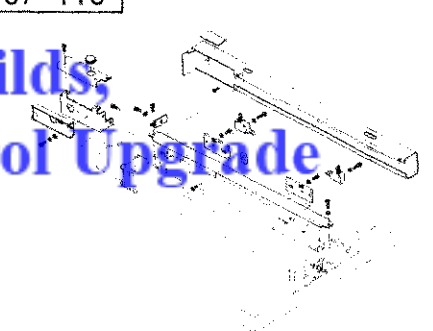
CONTENTS (2)

13 Pedal lock device	14 Tool holder	15 Speed change setting device	16 Main cylinder
55~56	57~60	61~66	67~70
			
17 Sub cylinder	**18 Distributor**	**19 Hydraulic pump**	**20 Hydraulic tank**
71~72	73~78	79~80	81~82
			
21 Hydraulic piping	**22 Hydraulic valve**	**23 Support (1)**	**24 Support (2)**
83~90	91~100	101~106	107~110
			

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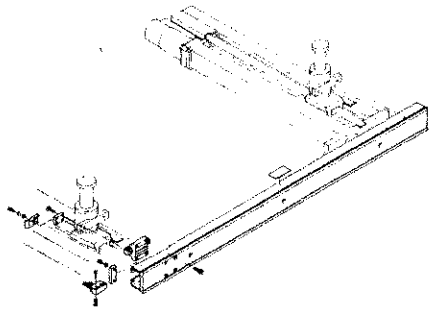
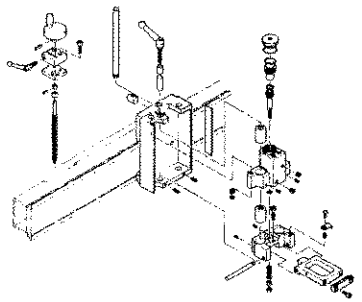
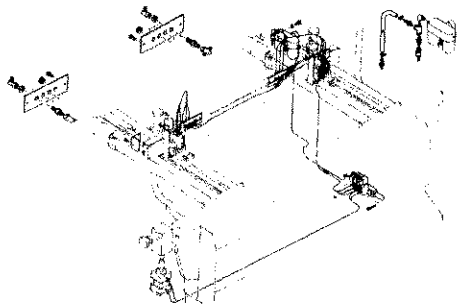
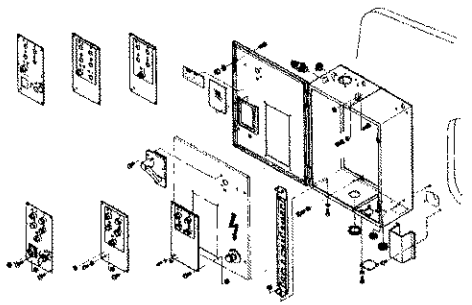
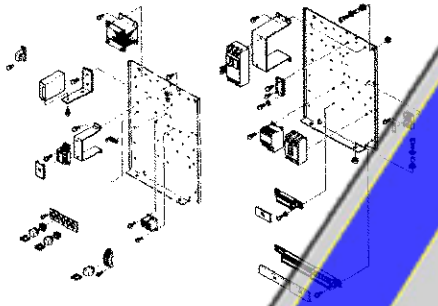
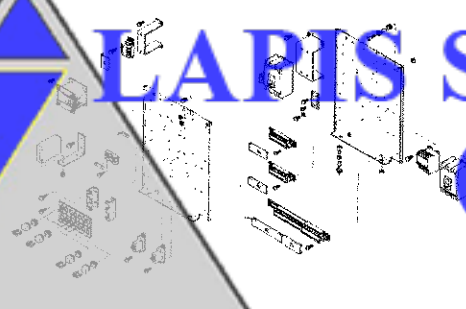
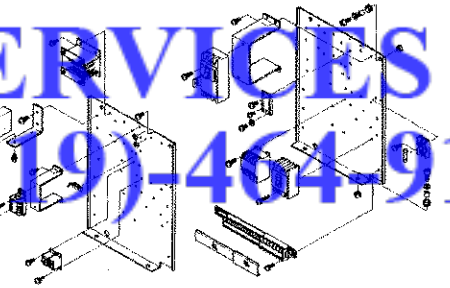
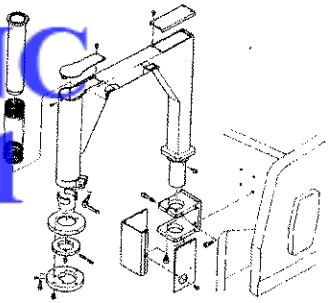
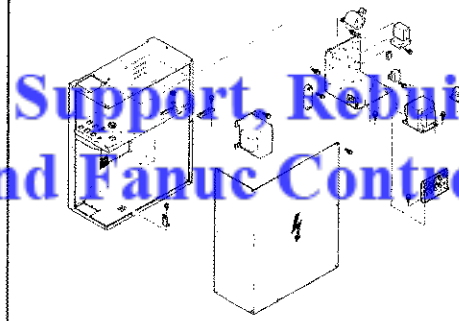
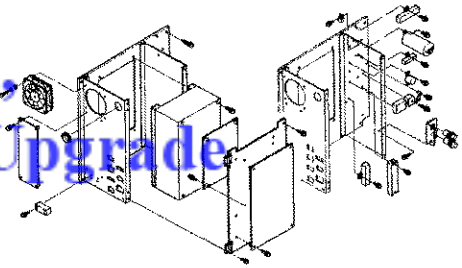
CONTENTS (3)

25 Stretch	26 Work stopper	27 Pneumatic piping (1)	28 Electric (1)
111~114 	115~120 	121~128 	129~140 
29 Electric (2) – STD	**30 Electric (3) – Multiple**	**31 Electric (4) – C-Multiple**	**32 Pendant arm**
141~150 	151~160 	161~168 	169~172 
33 Pendant box (1)	**34 Pendant box (2)**	**35 Electrical box (1)**	**36 Electrical box (2)**
173~176	177~182	183~188 	189~196 

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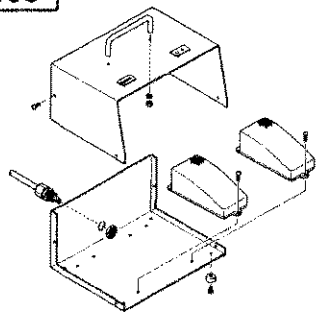
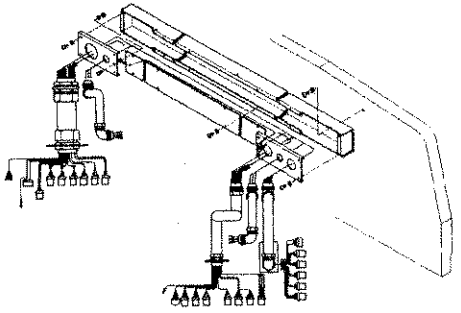
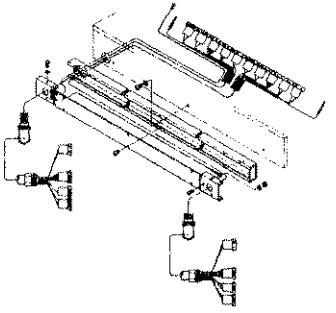
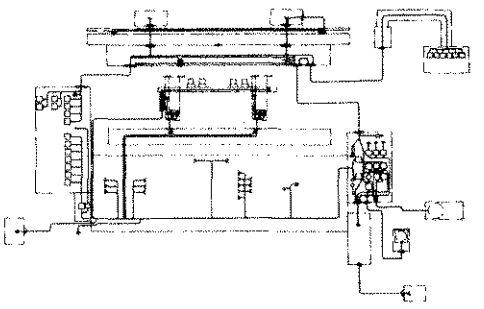
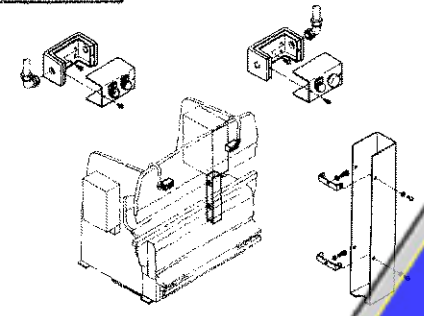
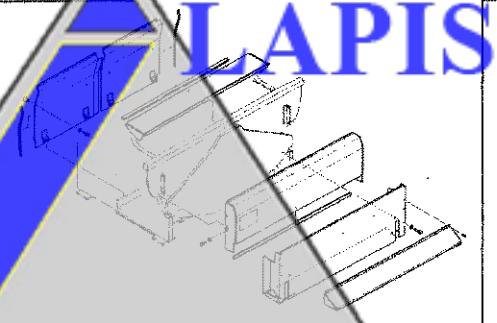
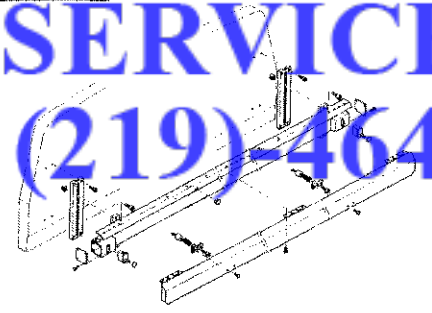
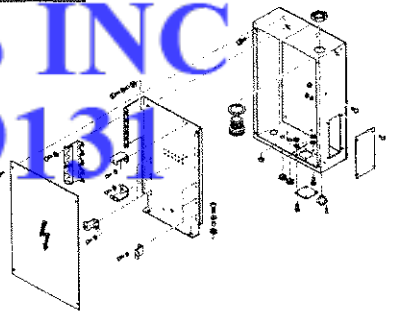
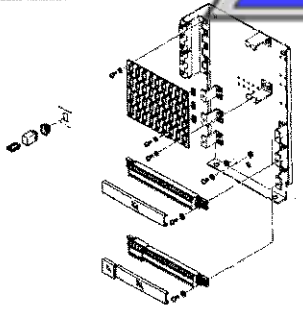
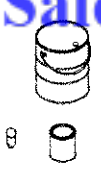
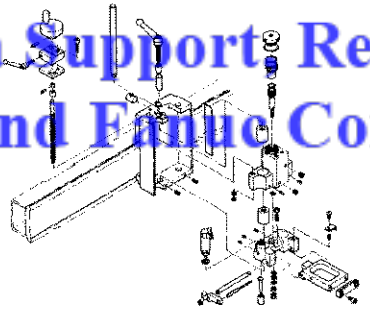
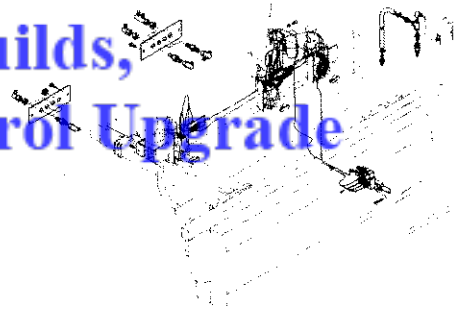
CONTENTS (4)

37 Foot switch box	38 Electric wiring (1)	39 Electric wiring (2)	40 Electric wiring (3)
197~198 	199~214 	215~222 	223~228 
41 Electric wiring (4)	**42 Cover**	**43 Emergency stop bar**	**44 Relay box (1)**
229~232 	233~238 	239~242 	243~248 
45 Relay box (2)	**46 Standard accessories**	**47 Flip-up work stopper**	**48 Pneumatic piping (2)**
249~252  	253~254	255~262 	263~270 

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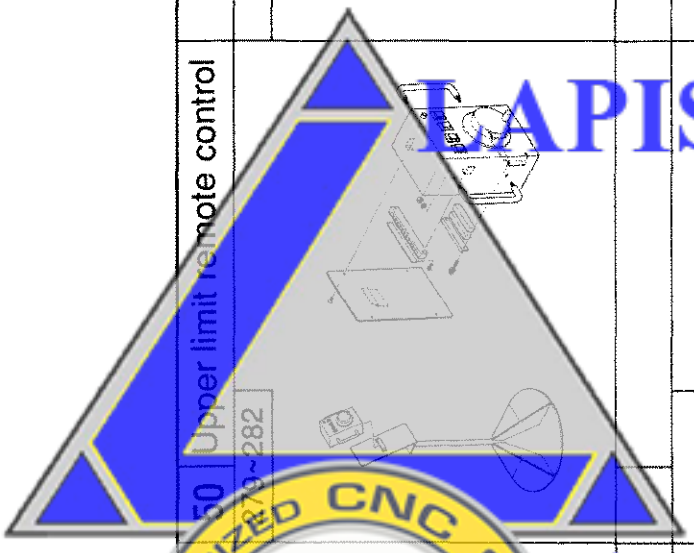

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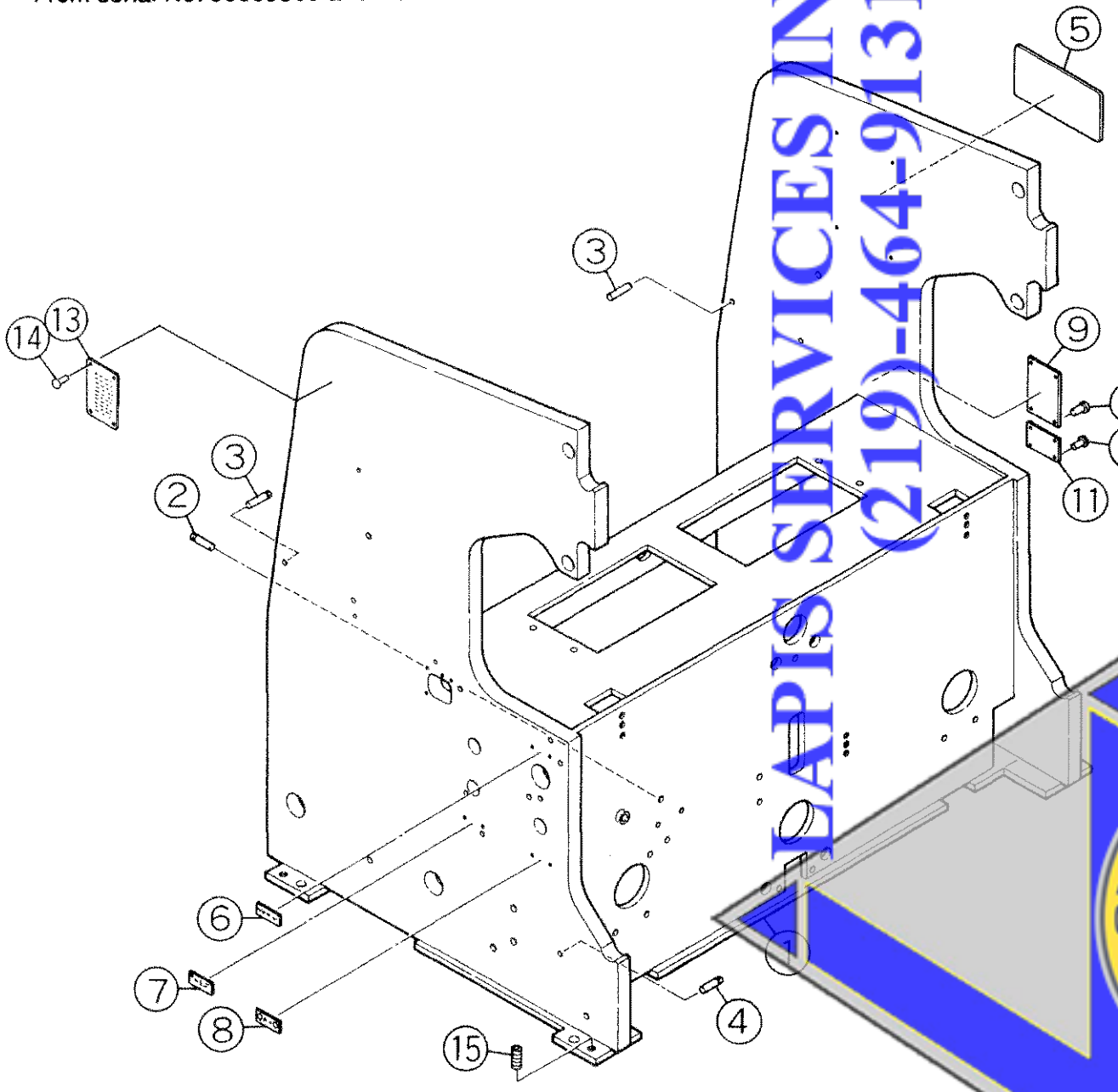
Upper limit remote control 50 ~282

Unit No. 01
Frame

From serial No. 50809508 and after.



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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Frame					
	36120105	RG80S	4124014D 4128679		1		
	36120106	RG80	4124015E 4128680		1		
2	36120602	Grooved pin		B-ϕ14 x 60	1		
3	36120604	Grooved pin		D-ϕ10 x 60	1		
4	36120603	Grooved pin		D-ϕ10 x 40	8		
5		Bending chart					
	36120515	(m/m)	4095658D		1		
	36120516	(inch)	4095659D		1		
6	36120506	Legend plate (upper limit)	4121182A		1		
7	36120507	Legend plate (pressure)	4121183A		1		
8	36120508	Legend plate (cut-off valve)	4121184A		1		
9		Serial plate					
	36120425	RG80S	4124585		1		
	36120426	RG80	4124586		1		
10	36148007	Drive screw rivet		ϕ1.8 x 4.8	4		
11	36179001	Serial plate (NC-9)	4099790A		1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
12	36148007	Drive screw rivet		ϕ1.8 x 4.8	4		
13	36120522	Conversion table	4095660		1		
14	36148007	Drive screw rivet		ϕ1.8 x 4.8	4		
15	36147522	Set screw		M20 x 40 dog end	4		

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Unit No. 02
Upper beam

From serial No. 9809508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Upper beam					
	36121029	RG80S	4127914E 4128875		1		
	36121030	RG80	4127925E 4128876		1		
2	36121102	Cover (left)	51.27035.0		1		
3	36121111	Cover (right)	51.27036.0		1		
4	36147330	Countersink head machine screw		M8 x 30	4		
5	36121227	Support block	4120194		4		
6	36121211	Washer	51.45042.0		4		
7	36121201	Adjusting screw	51.28056.1		4		
8	36121206	Spherical support	51.46312.0		4		
9	36121212 (36320901)	Washer	4120676		4		
10	36147153	Cap screw		M16 x 90	4		
11	36147152 (10555634)	Cap screw		M16 x 60	4		
12		Lock piece	6085368		2		
	36121129	H1		H = 22±0.042	(2)		
	36121130	H		H = 21±0.042	(2)		
	36121131	H		H = 20±0.042	(2)		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36121132	L		H = 19±0.042	(2)		
	36121133	LL		H = 18±0.042	(2)		
13	36121120 (36320818)	Lock piece	6085367		2		
14	36121119 (36107301)	Lock piece	6085377		2		
15	36121219 (36320825)	Adjusting piece	6085369		4		
16	36147132 (38020507)	Cap screw		M8 x 35	2		
17	36121402	Amada plate	7937046A		1		
18	36121411	Model plate	4133943		1		
19	36121424 (36320019)	Screw	4138468A		2		
20	36121420 (36320006)	Holder	7919508A		6		
21	36121431	Legend plate (warning)	4095870		1		
22	36121433	Legend plate (caution)	4044752C		1		
23	36121432	Legend plate (caution)	4044750		1		
24	36148007	Drive screw rivet		ϕ1.8 x 4.8	12		
25	36121504	Sticker (3M)	380515		1		
26		Sticker					
	36121527	RC30S		40 x 2200 L	1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36121528	RG80		40 x 2700 L	1		
27	36121511	Spacer	4098687B		4		
28	36147112 (74314409)	Cap screw		M6 x 50	4		
29	36121517	Plate	4098690A		1		

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Unit No. 03
Lower beam

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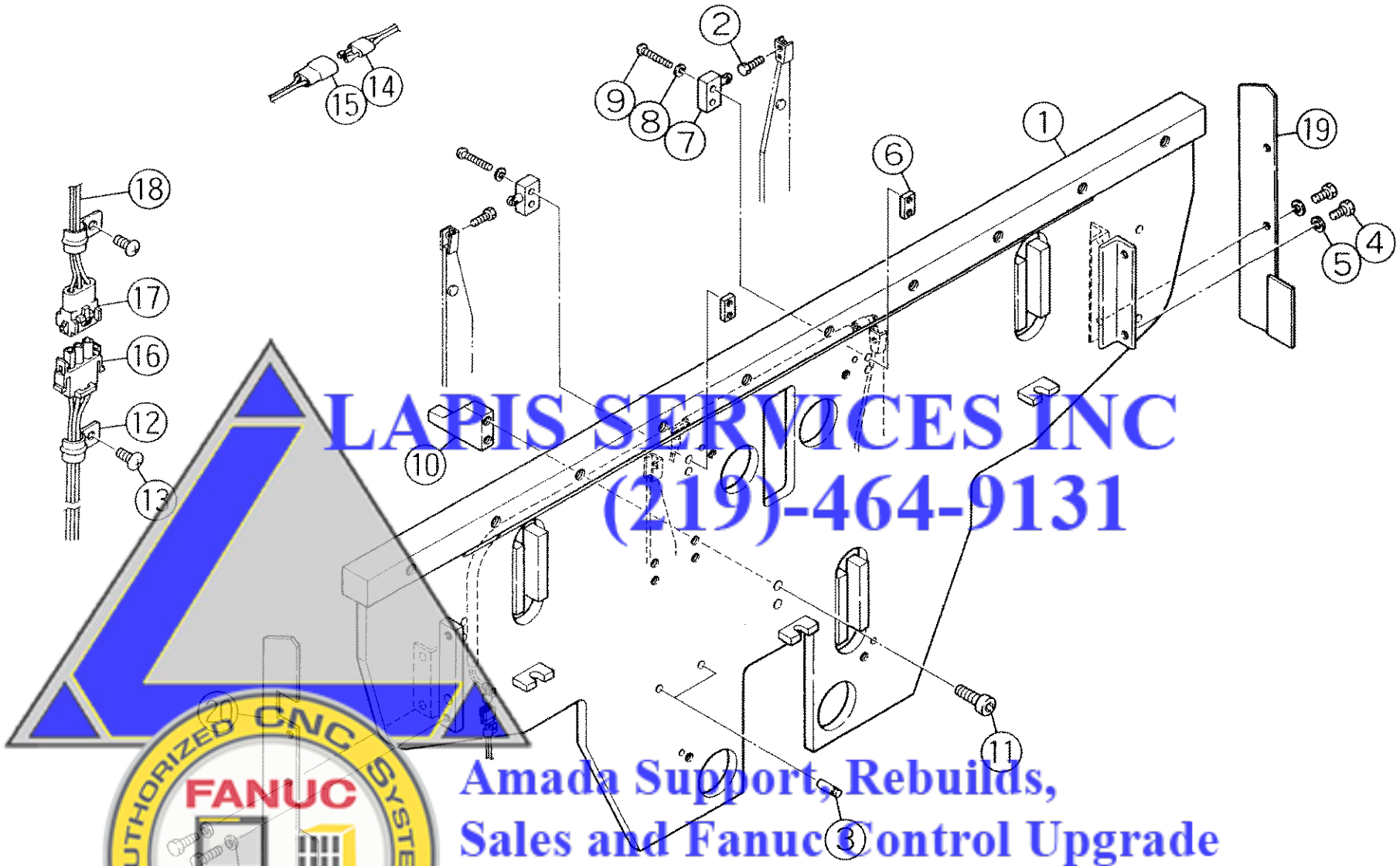

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Lower beam					
	36122004	RG80S	4126752B		1		
	36122005	RG80	4041552G		1		
2	36147031 (10442940)	Bolt		M6 x 30	2		
3	36122438	Grooved pin		BX-Φ12 x 40	2		
4	36147010 (44029703)	Bolt		M10 x 20	4		
5	36147712	Washer		M10 type-2	4		
6	36122201	L.S. setting plate	51.29009.0B		2		
7	36122401 (36322407)	Limit switch		BZ-ZRS55-T4-J (Yamatake-Haneywell)	4		
8	36147602 (44027327)	Spring washer		M4	4		
9		Pan head machine screw					
	36147305	RG80S		M4 x 50	4		
	36147306	RG80		M4 x 60	4		
10		Bracket					
	36122206	RG80S	4095635A		1		
	36122207	RG80	4095636A		1		
11		Cap screw					

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36147148 (36121227)	RG80S		M16 x 40	2		
	36147149 (36322121)	RG80		M16 x 45	2		
12	36122428 (44027304)	Saddle		CH-6 (Daiwa)	2		
13	36147308	Pan head machine screw		M5 x 8	2		
14	36122417	Pin		380547-1 (AMP)	2		
15	36122423	Socket		380550-1 (AMP)	2		
16	36122431	Plug		1-480700-1 (AMP)	1		
17	36122434	Receptacle		1-480701-1 (AMP)	1		
18		Cable					
	36122408	RG80S		1.25 mm^2 x 4500 L	1		
	36122409	RG80		1.25 mm^2 x 7500 L	1		
19	36122122	Side plate (right)	4090448		1		
20	36122107	Side plate (left)	4124536		1		

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Unit No. 04
Support plate

From serial No. 50809508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Support plate					
	36122804	RG80S	4090471B		1		
	36122805	RG80	4090473B		1		
2		Lock piece	6085368		2		
	36122819	HH		H = 22±0.042	(2)		
	36122820	H		H = 21±0.042	(2)		
	36122821	O		H = 20±0.042	(2)		
	36122822	L		H = 19±0.042	(2)		
	36122823	LL		H = 18±0.042	(2)		
3	36122829 (36320818)	Lock piece	6085367		2		
4	36122828 (36107301)	Lock piece	6085377		2		
5	36122901	Block	51.15127.2B		1		
6	36147132 (36113117)	Cap screw		M10 x 45	2		
7	36147149 (36322121)	Cap screw		M16 x 45	2		
8	36147634	Toothed lock washer		M16	2		
9	36147025	Bolt		M12 x 100	1		
10	36148014	Cone disk spring		R-25	44		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
11	36147812	Nut		M12 type 2	1		
12	36147813	Nut		M12 type 3	1		
13		Plate					
	36123905	RG80S	4161314		4		
	36123906	RG80	4161315		4		
14		Eccentric shaft					
	36123810	RG80S	51.27510.1		4		
	36123811	RG80	51.27512.1A		4		
15	36147818	Nut		M30 x 1.5	4		
16	36148013	Cone disk spring		ϕ63 x ϕ31 x 3.5t	4		
17		Plate					
	36123905	RG80S	4161314		4		
	36123906	RG80	4161315		4		
18		Eccentric shaft					
	36123828	RG80S	51.27509.1A		4		
	36123829	RG80	51.27511.1A		4		
19	36147818	Nut		M30 x 1.5	4		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
20	36148013	Cone disk spring		ϕ63 x ϕ31 x 3.5t	4		

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50809508 and after.

Unit No. 05

From serial No. 50809508 and after.

Upper post

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36123505	Guide post	4134854		1		
2	36123521	Lock piece	51.46309.2		4		
3	36147517	Set screw		M10 x 25 dog end	4		
4	36147028	Bolt		M16 x 45	2		
5	36147634	Toothed lock washer		M16	2		
6	36123602	Rubber cushion	51.19035.0		1		

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Unit No. 06
Upper limit setting device (1)

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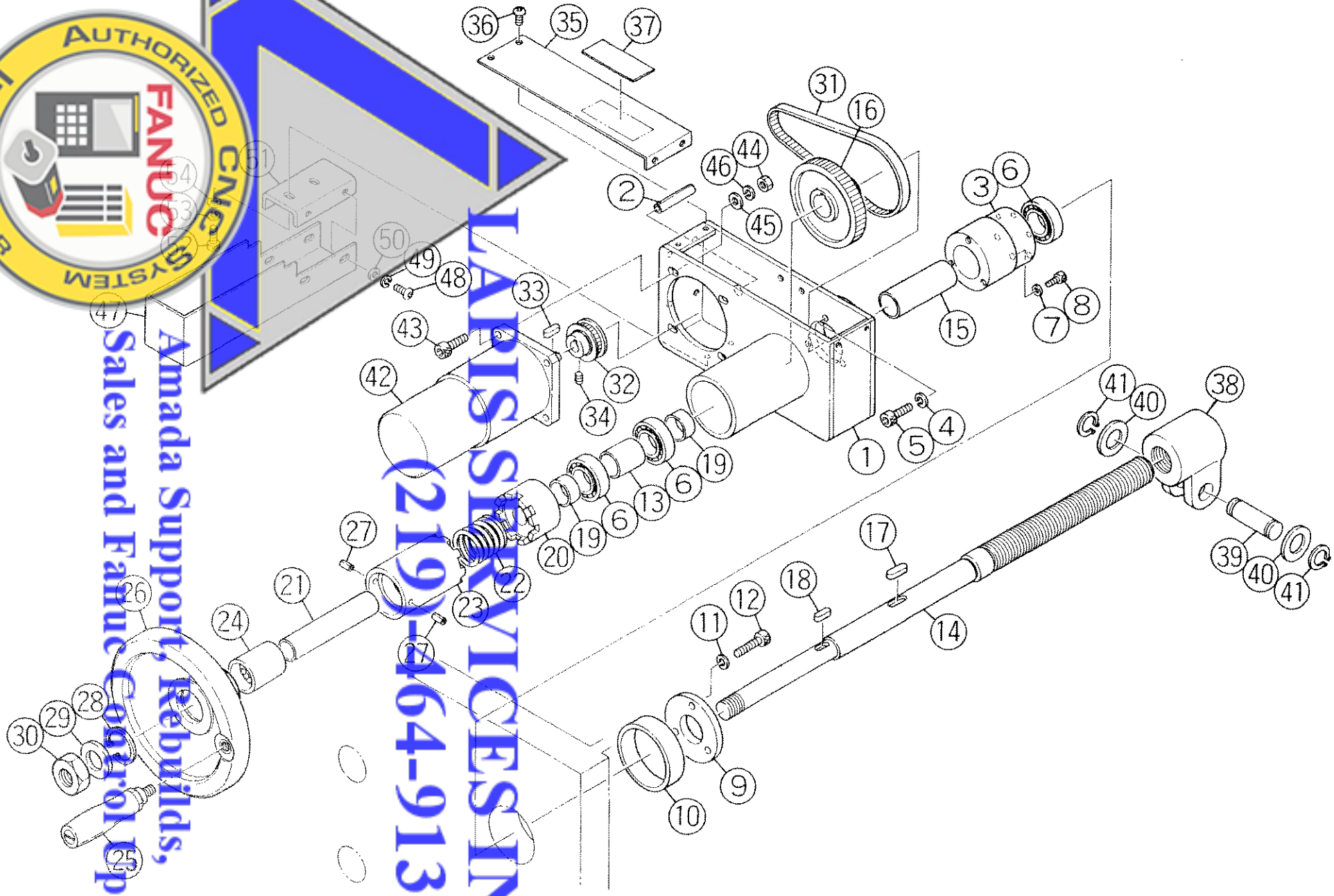

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From serial No. 50809508 and after.

Upper limit setting device (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36180236	Case	4128725C		1		
2	36177021	Spring pin		φ10 x 50	1		
3	36170314	Bearing case	4128726		1		
4	36176923 (36323020)	Spring washer		M6 type-2	3		
5	36176716 (74302815)	Cap screw		M6 x 20	3		
6	36180132 (10319323)	Ball bearing		#6005ZZ (NTN)	3		
7	36177001	Washer	4121313A		3		
8	36176706	Cap screw		M5 x 10	3		
9	36170340	Retainer	4099877		1		
10	36124721	Spacer	4099917		1		
11	36176923	Spring washer		M6 type-2	3		
12	36176718 (74304905)	Cap screw		M6 x 35	3		
13	36170326	Collar	4128729		1		
14	36180138	Feed screw	4128730		1		
15	36170327	Collar	4128731		1		
16	36170332	Pulley	4128732A		1		
17	36170358	Key		8 x 7 x 23 double round	1		

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Upper limit setting device (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36180207	Key		6 x 6 x 14 double round	1		
19	36170328	Collar	4128733		2		
20	36180206	Clutch	4128734		1		
21	36180202	Collar	4128735		1		
22	36180203	Spring		AS-D-40 x 3.2 x 40	1		
23	36180201	Clutch	4128736		1		
24	36180133	Stroke bearing		ST-25B (THK)	1		
25	36180116	Knob	563813B		1		
26	36180115	Handwheel	4128737		1		
27	36177016 (10558519)	Spring pin		Φ5 x 10	2		
28	36180117	Snap ring		RTW-37	1		
29	36177107	Washer		M20 type-2	1		
30	36176813	Nut		M20 type-3	1		
31	36170366	Timing belt		T5-10-95 (MITSUBOSHI)	1		
32	36180213	Pulley	4128738A		1		
33	36180208	Key		4 x 4 x 20 double round	1		
34	36176908 (36323029)	Set screw		M6 x 10 cone end	1		

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Upper limit setting device (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36170320	Cover	4128739B		1		
36	36176630	Button head socket screw		M5 x 8 loc-wel (unbrako)	4		
37	36170343	Sticker (upper limit)	4121182A		1		
38	36180233	Carriage	51.18516.2		1		
39	36180234	Shaft	51.11107.2A		1		
40	36147714	Washer		M20	2		
41	36180118	Snap ring		STW-20	2		
42	36180218	DC servo motor		SM80T-250E01 (Denyou)	1		
43	36176717 (75168508)	Cap screw		M6 x 25	4		
44	36176806 (10310352)	Nut		M6 x 1 type-1	4		
45	36177004 (44027930)	Washer		M6	4		
46	36176922 (44027928)	Spring washer		M6	4		
47	36180243	D-axis motor cover	4133954		1		
48	36176618 (10560101)	Button head socket screw		M5 x 10	4		
49	36176921 (36329924)	Spring washer		M5 type-2	4		
50	36177003	Washer		M5 polish	4		
51	36170337	Support	4133955		1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
52	36176708 (75168220)	Cap screw		M5 x 15	2		
53	36176921 (36329924)	Spring washer		M5 type-2	2		
54	36177003	Washer		M5 polish	2		

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Unit No. 07
Upper limit setting device (2)

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Upper limit setting device (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Connecting bar					
	36124530	RG80S	4041792		1		
	36124531	RG80	4041556		1		
2	36147020	Bolt		M10 x 110	1		
3	36147809 (36327621)	Nut		M10 type-2	1		
4	36124513	Lever	4040697A		1		
5	36125107 (37116401)	Oilless metal bushing		MB2020DU	1		
6	36147731 (10001102)	Snap ring		STW-20	1		
7	36124522	Lever ass'y	4040703A		1		
8	36125108	Oilless metal bushing		MB2425DU	2		
9	36147732 (10317509)	Snap ring		STW-24	1		
10	36124801	Upper limit valve ass'y	4125420C		1 set		
11	36147136 (74314417)	Cap screw		M10 x 70	2		
12	36124901	Spring plate	51.44050.0A		1		
13	36124612	Bracket	4091384		1		
14	36147913	Spring pin		ϕ8 x 22	2		
15	36147141 (44028616)	Cap screw		M12 x 30	3		

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Upper limit setting device (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36124618	Angle	4091387A		1		
17	36147126	Cap screw		M10 x 16	3		
18	36147714	Washer		M20 type-1	1		
19	36147731 (10001102)	Snap ring		STW-20	1		
20	36124606	LS9 setting plate	4049835B		1		
21	36147103 (74302812)	Cap screw		M6 x 10	2		
22	36147608 (36323020)	Spring washer		M6 type-2	2		
23	36125124	Limit switch		TLS19-J (Yamatake-Honeywell)	1		
24	36147312 (10556928)	Pan head machine screw		M5 x 35	4		
25	36147606 (36329924)	Spring washer		M5 type-2	4		
26	36124807 (36325307)	Valve body	4122110B		1		
27	36124819	Spool	4125421		1		
28	36124813 (36325313)	Valve seat	4122112A		1		
29	36124545 (36325316)	Cap	4044546A		1		
30	36124601 (36325329)	Pressure spring	4044547A		1		
31	36125116 (36325323)	Seal washer		WE-22 (NOK)	1		
32	36138622 (58147621)	Plug		PT 1/8"	2		

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1991

From serial No. 50809508 and after.

Upper limit setting device (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
33	36147420	O-ring		1BP25	1		
34	36147421 (36111006)	O-ring		1BP26	1		
35	36147402 (36325331)	O-ring		1AP14	1		
36	36147103 (74302812)	Cap screw		M6 x 10	4		

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Unit No. 08
L.S. setting

From serial No. 20809508 and after.

1991/9/20

From serial No. 50809508 and after.

L.S. setting

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36173001	Support	4048551B		1		
2	36176727	Cap screw		M10 x 90	2		
3	36177008	Washer		M12	2		
4	36173005	Plate	4048552A		1		
5	36176711 (74302812)	Cap screw		M6 x 10	2		
6	36177004 (44027930)	Washer		M6	2		
7	36183205 (44449519)	Limit switch		1LS19-J (Yamatake-Honeywell)	2		
8	36176824	Pan head machine screw		M6 x 10	4		
9	36176922 (44027928)	Spring washer		M6	4		
10	36176823 (10556928)	Pan head machine screw		M5 x 35	4		
11	36176921 (36329924)	Spring washer		M5	4		
12	36183114 (36004614)	Connector		0A-1 (OHM)	2		
13	36183224	Bracket	4095546A		1		
14	36176603 (36323423)	Bolt		M6 x 10	2		
15	36177004 (44027930)	Washer		M6	1		
16	36183209 (36003747)	Limit switch		ZE-Q-2 (OMRON)	1		
17	36112636	Pan head machine screw		M4 x 30	2		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36183114 (36004614)	Connector		0A-1 (OHM)	1		

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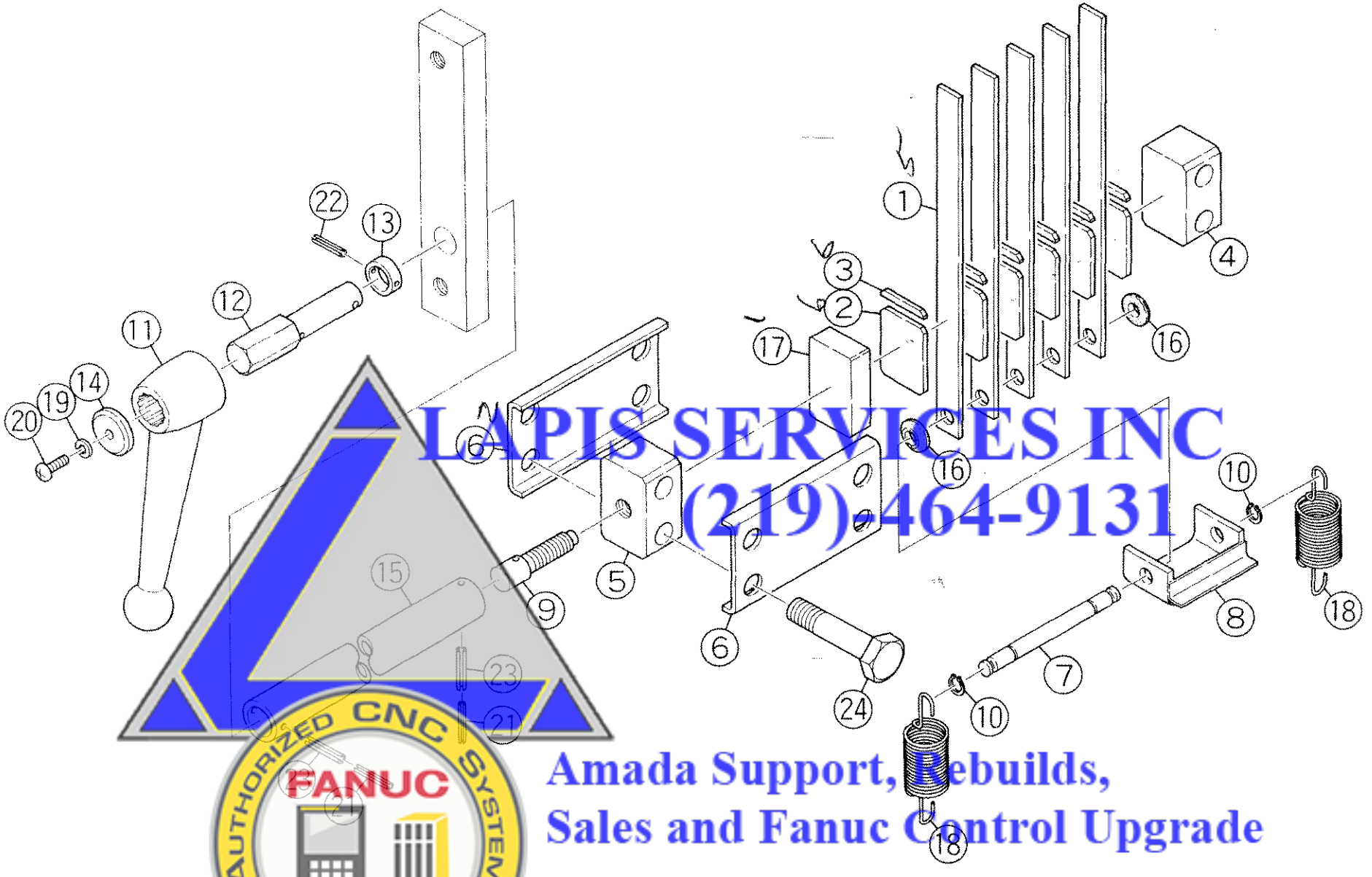
Unit No. 09
Lower limit setting device

From serial No. 50809508 and after.



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From serial No. 50809508 and after.

Lower limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36125930 (36108901)	Plate	51.57563.0D		5		
2	36125925 (36108905)	Friction plate	51.57138.0		6		
3	36125920	Support	51.57137.1B		6		
4	36125834	Block support	51.15109.0		1		
5	36125833	Block support	51.15108.0		1		
6		Clamp plate					
	36125912	RG80S	51.17060.0		2		
	36125911 (36108917)	RG80	386314		2		
7	36125602	Pin	51.11112.0		1		
8	36125611	Support plate	51.19057.0D		1		
9	36125731	Screw	51.28140.0		1		
10	36147730 (10205431)	Snap ring		STW10	2		
11	36125824 (36109301)	Lever	388536		1		
12	36125624 (36109304)	Insert coupling	380396B		1		
13	36125629 (36109307)	Collar	380397A		1		
14	36126007	Washer	564563A		1		
15		Shaft					

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Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
RG80S	380846B		1		
RG80	380841C		1		
Rubber washer	563032A		2		
Support block	51.15126.0A		1		
Spring	51.44099.0		2		
Spring washer		M6	1		
Pan head machine screw		M6 x 15	1		
Spring pin		φ3 x 28	2		
Spring pin		φ4 x 20	1		
Spring pin		φ5 x 28	2		
Bolt		M14 x 70	4		

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Unit No. 10
Multiple lower limit setting

From serial No. 50809508 and after.

RG80S

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From serial No. 50809508 and after.

Multiple lower limit setting

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36182837	Collar	4125387A		2		
2	36182808	L.S. plate	4121838B		1		
3	36176723 (74302818)	Cap screw		M8 x 30	2		
4	36176924 (10001521)	Spring washer		M8	2		
5	36147707 (74300511)	Washer		M8	2		
6	36182814	Limit switch		LDV-5310 (Yamatake-Haneywell)	1		
7	36176716 (74302815)	Cap screw		M6 x 20	4		
8		Scale					
	36182812	(mm)	4099989		1		
	36171451	(inch)	4129817		1		
9	36182822	Dog base	4121839		1		
10	36182827	Support	4121837A	RG80S RG80	2 1		
11	36176925 (10001520)	Spring washer		M10	2		
12	36177007 (74300512)	Washer		M10	2		
13	36147810 (10001516)	Nut		M10 type-2	2		
14		Cap screw					
	36176727	RG80S		M10 x 90	2		

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Multiple lower limit setting

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36116202 (74307601)	RG80		M10 x 100	1		
15	36182820	Dog	4121835A		3		
16	36176708 (75168220)	Cap screw		M5 x 15	3		
17	36176920 (44027927)	Spring washer		M5	3		
18	36177105 (44552819)	Washer		M5	3		
19	36177022	Spring pin		ϕ5 x 15	3		
20	36176725 (74302829)	Cap screw		M10 x 30	1		
21	36182826	Bracket	4121840		1		RG80
22	36176711 (74302812)	Cap screw		M6 x 10	2		RG80
23	36176922 (44027928)	Spring washer		M6	2		RG80
24	36182842	LS cover	4134095		1		
25	36176711 (74302812)	Cap screw		M6 x 10	4		

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Unit No. 11
Guide roller

From serial No. 50809508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)		Q'ty	Parts No.	Note
1		Left-right guide roller ass'y						
	36126623	RG80S	51.60406.0			4 set		
	36126625	RG80	51.60408.0			4 set		
2	36126724 (36323712)	Clamper	4095918			4		
3	36147633	Toothed lock washer		M14		4		
4	36147026 (36323729)	Bolt		M14 x 30		4		
5	36147909	Spring pin		φ6 x 30		4		
6	36127513	Begin roller ass'y	51.60401-1		RG80S RG80	6 set 10 set		
7	36127508	Block support	51.15023.1		RG80S RG80	6 10		
8	36127519	Stud bolt	51.28067.1		RG80S RG80	6 10		
9	36147814	Nut (with nylon lock)		M16 type-1	RG80S RG80	6 10		
10	36147524	Set screw		M16 x 50 flat end	RG80S RG80	3 5		
11	36147815	Nut		M16 type-2	RG80S RG80	3 5		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)		Q'ty	Parts No.	Note
12	36128023	Shaft (Include spring support)	4049886B 4161297A		RG80S RG80	1 2		
13	36128133	Spring support	4049888C		RG80S RG80	1 2		
14	36128208	Plate	4161296A		RG80S RG80	1 2		
15	36128219	Spring	4091690		RG80S RG80	1 2		
16	36128104	Collar	4092942			1		RG80S
17	36147821	Nut		M12	RG80S RG80	1 2		
18	36147115	Cap screw		M8 x 16	RG80S RG80	1 2		
19	36147707 (74300511)	Washer		M8	RG80S RG80	1 2		

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Unit No. 13
Pedal lock device

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36129308	Lever	4095026		1		
2	36129501	Knob		PC25 x 6 (imao)	1		
3	36129314	Shaft support	4095027B		1		
4	36129320	Shaft	4095028B		1		
5	36147108	Cap screw		M6 x 20	1		
6	36129326	Washer	4095029		1		
7	36147123 (74309806)	Cap screw		M8 x 50	1		
8	36129333	Stopper	4095031		1		
9	36147009	Bolt		M8 x 40	1		
10	36147806	Nut		M8 type-2	1		

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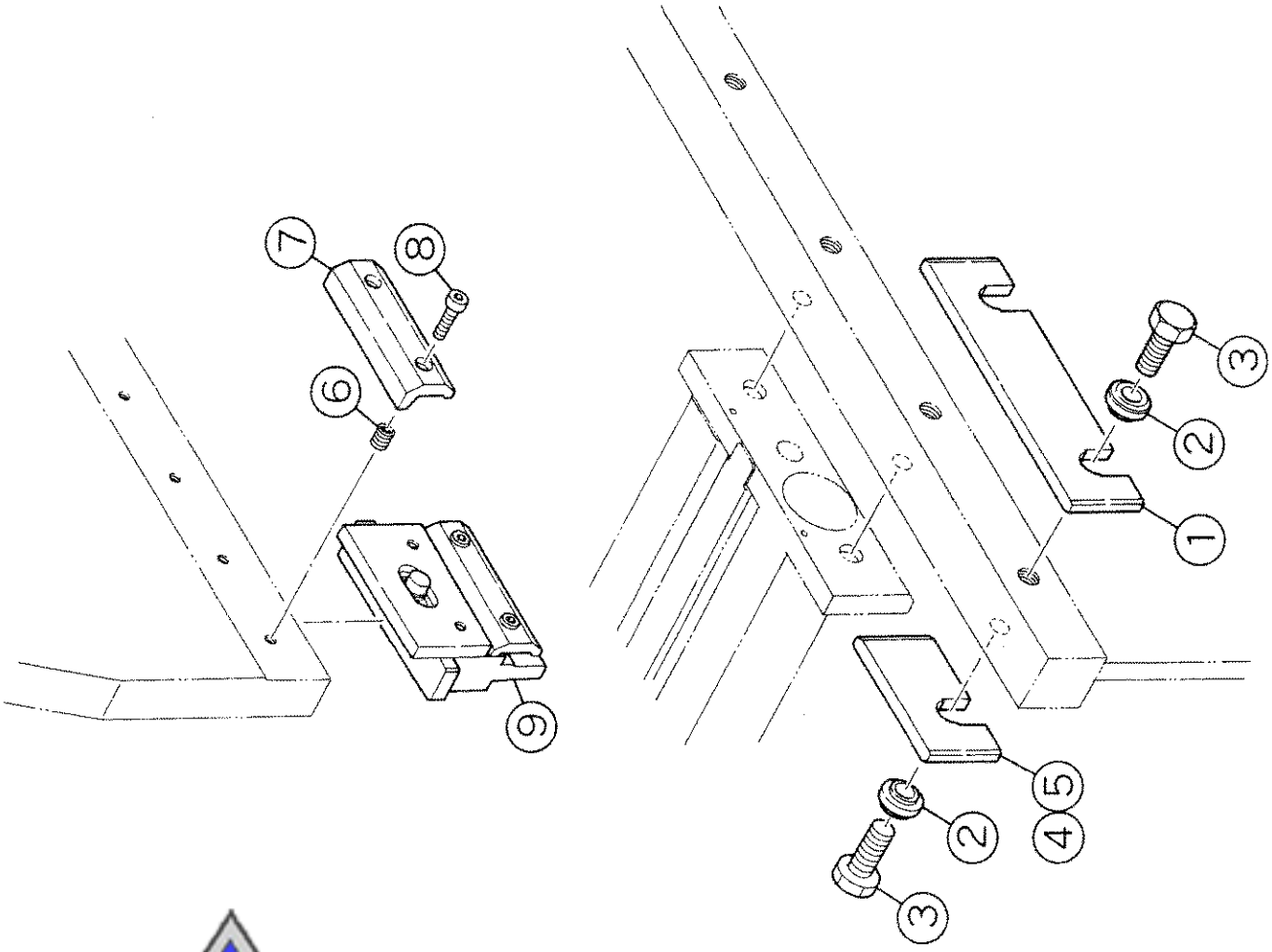

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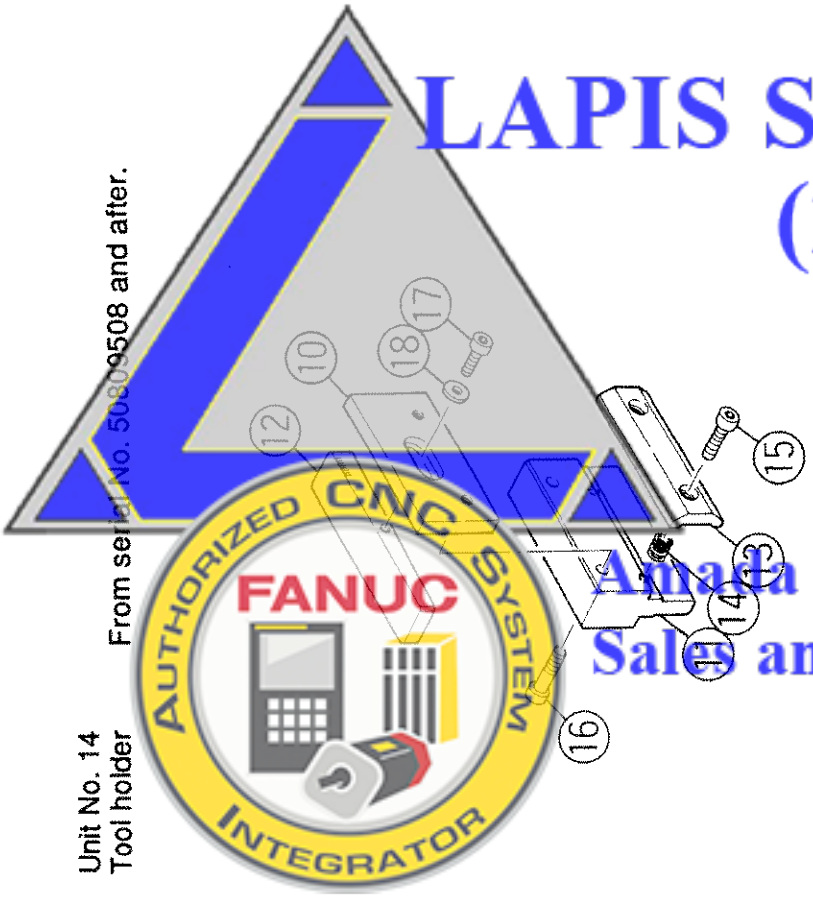

From serial No. 50809508 and after.

Unit No. 14
Tool holder

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)		Q'ty	Parts No.	Note
1	36128901 (36324101)	Clamp plate	51.27029.0B		RG80S RG80	7 9		
2	36128909	Washer	7937122		RG80S RG80	16 20		
3	36147030 (36106815)	Bolt		M20 x 50	RG80S RG80	16 20		
4	36180701	Clamp plate (R)	571738A			1		
5	36180707	Clamp plate (L)	571739A			1		
6	36128927 (36113131)	Spring	51.44030.0		RG80S RG80	20 24		
7	36128914	Clamp plate	4161303A		RG80S RG80	10 12		
8	36147130 (74304918)	Cap screw		M10 x 35	RG80S RG80	20 24		
9	36128701 (36113108)	Distance piece ass'y	4099949		RG80S RG80	10 set 12 set		
10	36128709	Distance piece	51.57074.2D		RG80S RG80	10 12		
11	36128715	Push lock plate	4098393		RG80S RG80	10 12		
12	36128721	Adjusting piece	4099950		RG80S RG80	10 12		
13	36128726 (36324107)	Clamp plate	51.17028.1		RG80S RG80	10 12		
14	36128731 (36113131)	Spring	51.44030.2		RG80S RG80	20 24		
15	36147130 (74304918)	Cap screw		M10 x 35	RG80S RG80	20 24		
16	36147131 (74304919)	Cap screw		M10 x 40	RG80S RG80	20 24		
17	36128737	Cap screw	560435B		RG80S RG80	10 12		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36128743	Washer	560424A	RG80S RG80	10 12		

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Unit No. 15
Speed change setting device

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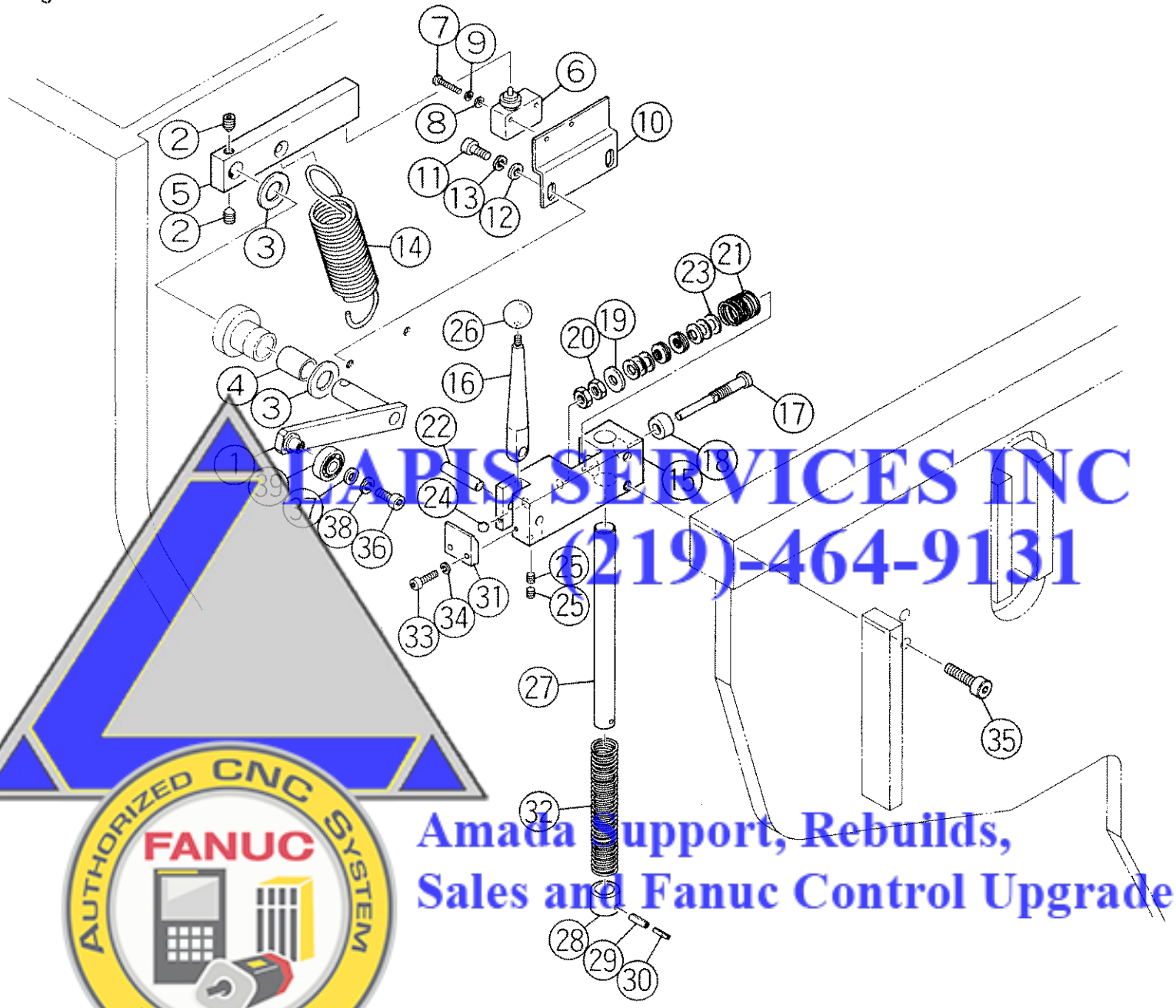

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From serial No. 50809508 and after.

Speed change setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Arm					
	36130017	RG80S	4124509A		1		
	36130018	RG80	4124513B		1		
2	36147506	Set screw		M10 x 16 cone end	2		
3	36147715	Washer		M20 polish	2		
4	36130503	Oilless metal bushing		MB2030DU (Daido metal)	1		
5	36130021	Arm	4124527B		1		
6	36130417 (36322920)	Limit switch		SL1-H (Yamatake-Haneywell)	1		
7	36147303	Pan head machine screw		M4 x 25	2		
8	36147702	Washer		M4 polish	2		
9	36147603	Spring washer		M4 type-2	2		
10	36130221	L.S. setting plate	4134855A		1		
11	36147114 (73157630)	Cap screw		M8 x 15	2		
12	36147708	Washer		M8 polish	2		
13	36147610	Spring washer		M8 type-2	2		
14	36130114	Tension spring	4041232		1		
15	36129902	Support block	4126464B		1		

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From serial No. 50809508 and after.

Speed change setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36129910	Lever	4041004B		1		
17	36130234	Bolt	4127754A		1		
18	36130225	Piece	4126240A		1		
19	36130230	Washer	4126241		1		
20	36147810	Nut		M10 type-3	2		
21	36130406	Spring		AS-D-25 x 2 x 25	1		
22	36129929	Shaft	4041007		1		
23	36130423	Cone disk spring		DB-10	12		
24	36130430	Steel ball		3/8"	1		
25	36147523	Set screw		M6 x 8 flat end	2		
26	36130401	Knob		PC25 x 6 black (lmao)	1		
27	36130133	Rod	4124522A				
28	36130201	Spring support	4124523B		1		
29	36147905 (10564018)	Spring pin		Φ5 x 20	1		
30	36147902 (5411733)	Spring pin		Φ3 x 20	1		
31	36130120	Stopper	4127684		1		
32	36130206	Pressure spring	4124529		1		

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Speed change setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
33	36147108 (74302815)	Cap screw		M6 x 20	2		
34	36147608 (36323020)	Spring washer		M6 type-2	2		
35	36147131 (74304913)	Cap screw		M10 x 40	2		
36	36147113 (36329937)	Cap screw		M8 x 10	1		
37	36147610	Washer		M8 polish	1		
38	36147708	Spring washer		M8 type-2	1		
39	36130411 (10312824)	Ball bearing		#6201ZZ (NTN)	1		

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Unit No. 16
Main cylinder

From serial No. 50809508 and after.

1991/9/20

From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36131002	Main cylinder ass'y	4091556C		1 set		
2	36131023	Main cylinder	4091606D		1		
3	36131101	Plunger	4040685C		1		
4	36131124	Inner plunger	4049702		1		
5	36132101	Spherical support	55.01569.4B		1		
6	36147430	O-ring		1BP120	1		
7	36147408	O-ring		1AP70	1		
8	36147427	O-ring		1BP50A	1		
9	36147417	O-ring		1BP18	1		
10	36147121 (74314411)	Cap screw		M8 x 50	4		
11	36131514 (36110705)	Dust seal		SDR-120 (Sakagami)	1		
12	36131501 (36110706)	Back-up ring		T3P120	1		
13	36131211	Lock piece	51.46324.1A		4		
14	36147519	Set screw		M14 x 25 dog end	4		
15	36147149 (36322121)	Cap screw		M16 x 45	4		
16	36147634	Toothed lock washer		M16	4		
17	36147024	Bolt		M12 x 50	1		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36147812	Nut		M12 type-2	1		
19	36131223	Clamp plate	51.57071.2		1 set		

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From serial No. 50809508 and after.

Sub cylinder

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36132001	Sub cylinder ass'y	4091557C		2 set		
2	36132015	Cylinder	4091607B		2		
3	36132028	Plunger piston	4040860A		2		
4	36132101	Spherical support	55.01569.4B		2		
5	36147429	O-ring		1BP 100	2		
6	36132311	Dust seal		SDR-100 (Sakagami)	2		
7	36132301 (36111019)	Back-up ring		T3P 100	2		
8	36147028	Bolt		M16 x 45	8		
9	36147615 (74302902)	Spring washer		M16	8		
10	36131229	Support screw	51.48025.1B		2		
11	36147812	Nut		M12 type-2	6		
12	36147613 (44028619)	Spring washer		M12	2		

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From serial No. 9809508 and after.

Unit No. 18
Distributor

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From serial No. 50809508 and after.

Distributor

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36132701	Distributor ass'y	4048574F		1 set		
2	36132707	Valve body	4048575F		1		
3	36133133	Plug		PT 1/8"	1		
4	36133134	Plug		PT 1/4"	1		
5	36132713	Spool	4040900D		1		
6	36147404	O-ring		1AP18	1		
7	36132829	Spring support	4095130		1		
8	36132906	Pressure spring	50.440153.1		1		
9	36132901	Retainer	50.440110.1		1		
10	36132911	Spacer	4092995		1		
11	36132727	Washer	382741		1		
12	36147135	Cap screw		M10 x 60	1		
13	36132801 (36326715)	Screw guide	4048576D		1		
14	36132714	Spool	4048577A		1		
15	36147403 (36110501)	O-ring		1AP16	1		
16	36133127	Steel ball		ϕ7	1		
17	36133117	Cone disk spring		ϕ18 x ϕ6.5 x t1	10		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36132715	Spool	4048662A		1		
19	36133122	Nylon rod		ϕ4 x 5	2		
20	36132734	Bolt	4094953		1		
21	36147507	Set screw		M6 x 8 cup end	1		
22	36132817	Spring	51.44030.1		1		
23	36132806	Knob	4048579B		1		
24	36132726	Washer	4048500		2		
25	36132811	Collar	4048860		1		
26	36132816	Spring	4048861		1		
27	36133107 (36109731)	Affixed seal		KP-C-06 (Ihara)	1		
28	36147016	Bolt		M10 x 50	2		
29	36112621	Push rod	4092491B		1		C-Multi
30	36171011	Air cylinder		CAB63-14 (SMC)	1		C-Multi
31	36171008	Block	4091643A		1		C-Multi
32	36176728 (36326157)	Cap screw		M10 x 120	4		C-Multi
33	36176904 (10332968)	Set screw		M5 x 6 cone end	1		C-Multi
34	36183201	LS setting plate	4121855C		1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36176711 (74302812)	Cap screw		M6 x 10	2		
36	36183205 (44449519)	Limit switch		1LS19-J C-Multi (Yamatake-Haneywell) Multi	3 2		
37	36176710	Cap screw		M5 x 35 C-Multi Multi	6 4		

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Unit No. 19
Hydraulic pump

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36136502	Motor base	4092804		1		
2	36136406	Coupling	7937043	(NTN)	1		
3	36136828	Motor		MLA6133A 5.5 kw 4P (Fuji) 230-50/60 400-50 460-60	1		
4	36137117	Key		8 x 10 x 65 type-2	1		
5	36147013 (36327604)	Bolt		M10 x 35	4		
6	36147611 (10001520)	Spring washer		M10	4		
7	36136432	Cover	4092860A		1		
8	36147103 (74302812)	Cap screw		M6 x 10	2		
9	36136803	Pump		IPH-2B-8-3235A with key (Fuji)	1		
10	36147011 (10001510)	Bolt		M10 x 25	2		
11	36147710 (74300512)	Washer		M10	2		
12	36137001	Rubber cushion		KA-50 (Kurashiki)	4		
13	36147710 (74300512)	Washer		M10	8		
14	36147808 (10001516)	Nut		M10 type-1	8		
15	36136607 (36327521)	Legend plate (caution)	4095623		1		
16	36148007	Drive screw rivet		ϕ1.8 x 4.8	4		

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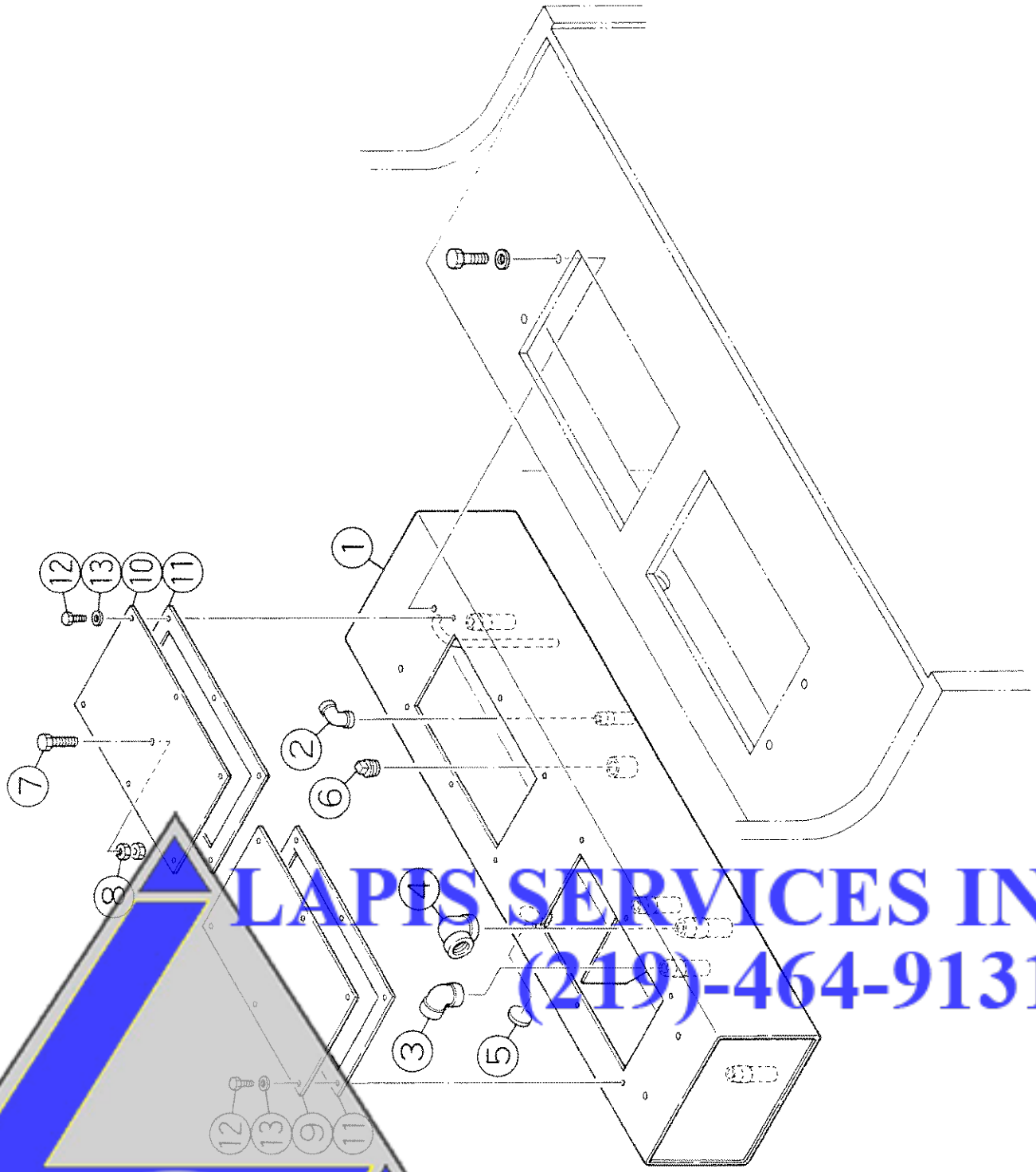

Unit No. 20
Hydraulic tank

From serial No. 50809508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36136231	Tank	4125264C		1		
2	36137026	90° elbow		90° PT 3/8"	1		
3	36137025	90° elbow		90° PT 3/4"	1		
4	36137024	90° elbow		90° PT 1"	1		
5	36136907	Oil level gauge		OLG-40	1		
6	36136602	Square head plug		PT 3/4"	1		
7	36147016	Bolt		M10 x 50	1		
8	36147810	Nut		M10 type-3	2		
9	36136427 (36328815)	Cover	4091577		1		
10	36136426	Cover	4091320		1		
11	36136314 (36328829)	Packing	4091578A		2		
12	36147002 (36328423)	Bolt		M6 x 10	12		
13	36147706	Washer		M6 polish	12		

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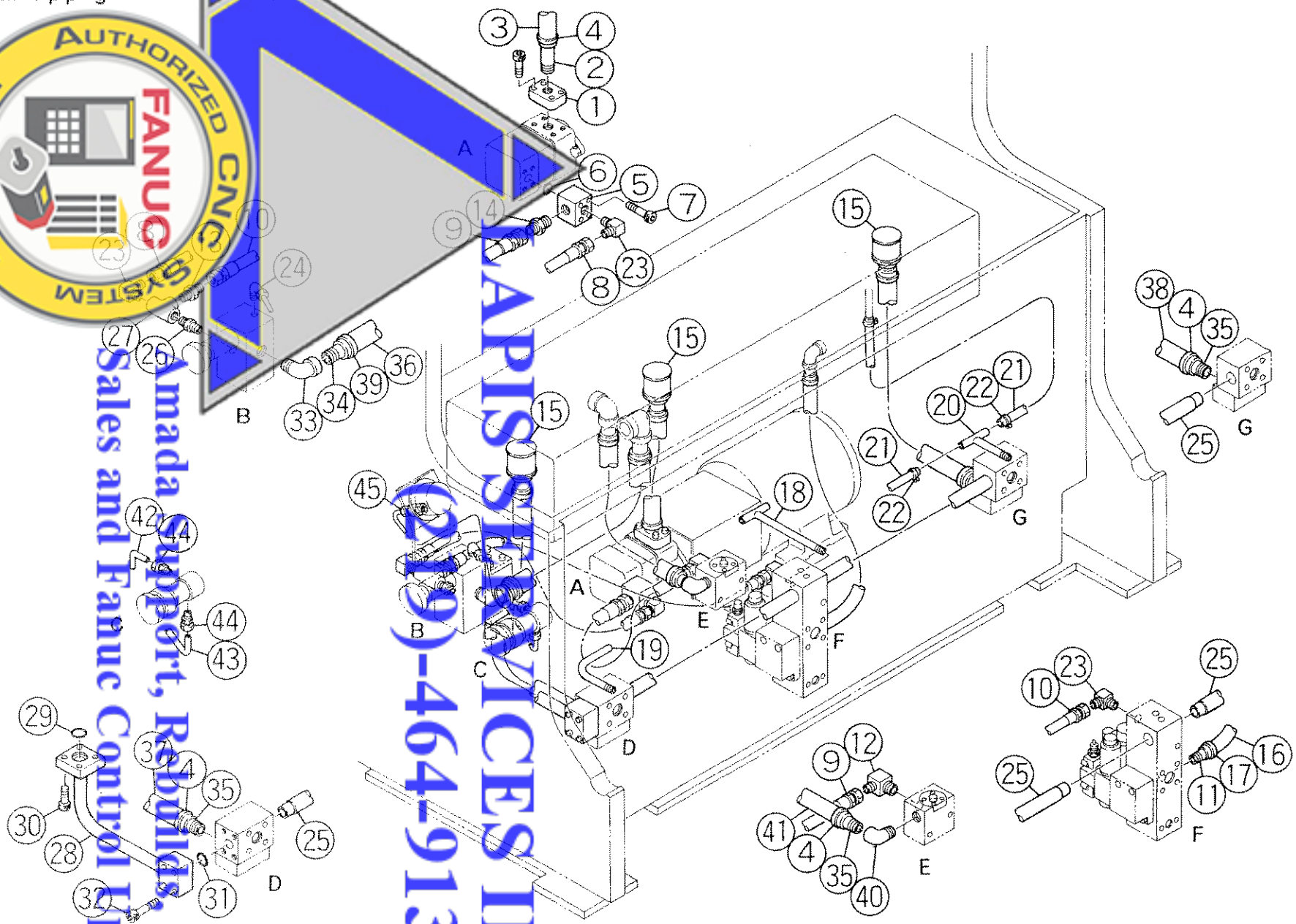
Unit No. 21
Hydraulic piping

From serial No. 50809508 and after.



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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36138615	IN flange		QGT-08-3/4" (Sumitomo)	1		
2	36137903	Pipe support	4091549A		1		
3	36138405	HI-MID oil hose		ϕ25 x 300 L (Yokohama)	1		
4	36138523	Hose band		2A (Jubilee)	8		
5	36137928	Flange	4040808B		1		
6	36147418 (38121649)	O-ring		1BP22	1		
7	36147122 (74304910)	Cap screw		M8 x 55	4		
8		Rubber hose					
	36138317	RG80S		N708EK08NPF 700L (BS)	1		
	36138312	RG80		N708EK08NPF 1050L (BS)	1		
9	36138320	Rubber hose		XT-5-3/4" (CAT) EH12NPF 900L (BS)	1		
10		Rubber hose					
	36138306	RG80S		N708EK08NPF 900L (BS)	1		
	36138313	RG80		N708EK08NPF 1150L (BS)	1		
11	36137905	Pipe support	4095476		1		
12	36138833 (36328330)	90° elbow		3021F-12 (BS)	1		
13	36138801	Adapter		3001F-08 (BS)	1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36138802	Adapter		3001F-12 (BS)	1		
15	36138703	Strainer		SFT-06 (Taishei)	3		
16	36138402	MID oil hose		ϕ15 x 700 L	1		
17	36138521	Hose band		1A (Jubilee)	2		
18	36138002	Tee	4095484A		1		
19	36138125	Drain pipe	50.54570.0		1		
20	36138001	Tee	4040821		1		
21	36138503	Vinyl tube		ϕ10 x ϕ13 x 2500 L	1		
22	36138719	Wire clamp		ϕ13	6		
23	36138832	90° elbow		3021F-08	3		
24	36138931	Elbow nipple		KLN4-PT 1/8"-S (Ihara)	1		
25		Pipe					
	36137806	RG80S	4044004		2		
	36137801	RG80	4041588		2		
26	36139002	Nipple		NS-PT 1/2" (NTN)	1		
27	36138005	Tee		TEF-PT 1/2 (NTN)	1		
28		Pipe					

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36137701	RG80S	4044653A		1		
	36137705	RG80	4125277		1		
29	36147433	O-ring		1BG30	1		
30	36147130 (74304918)	Cap screw		M10 x 35	4		
31	36147421 (36111006)	O-ring		1BP26	1		
32	36147135	Cap screw		M10 x 60	4		
33	36138917	90° male-female elbow		PT 1"	1		
34	36137904	Pipe support	4091550B		1		
35	36137907	Pipe support	560306B		3		
36	36138433	Gasoline hose		ϕ32 x 450 L	1		
37	36138409	HI-MID oil hose		ϕ25 x 650 L	1		
38	36138406	HI-MID oil hose		ϕ25 x 500 L	1		
39	3613852	Hose band		2X (Jubilee)	2		
40	36138916	90° male-female elbow		3/4"	1		
41	36138408	HI-MID oil hose		ϕ25 x 600 L (Yokohama)	1		
42		Copper pipe					
	36138102	RG80S		ϕ4 x ϕ2 x 420 L (Yokohama)	1		

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AUTHORIZED CNC SYSTEM INTEGRATOR
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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36138105	RG80		ϕ4 x ϕ2 x 650 L (Yokohama)	1		
43	36170811	Copper pipe	4131389B		1		
44	36138633	Connector		KC4-PT 1/8"-S (Ihara)	2		
45	36138631	Connector		KGA04-030N (Ihara)	1		

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Unit No. 22
Hydraulic valve

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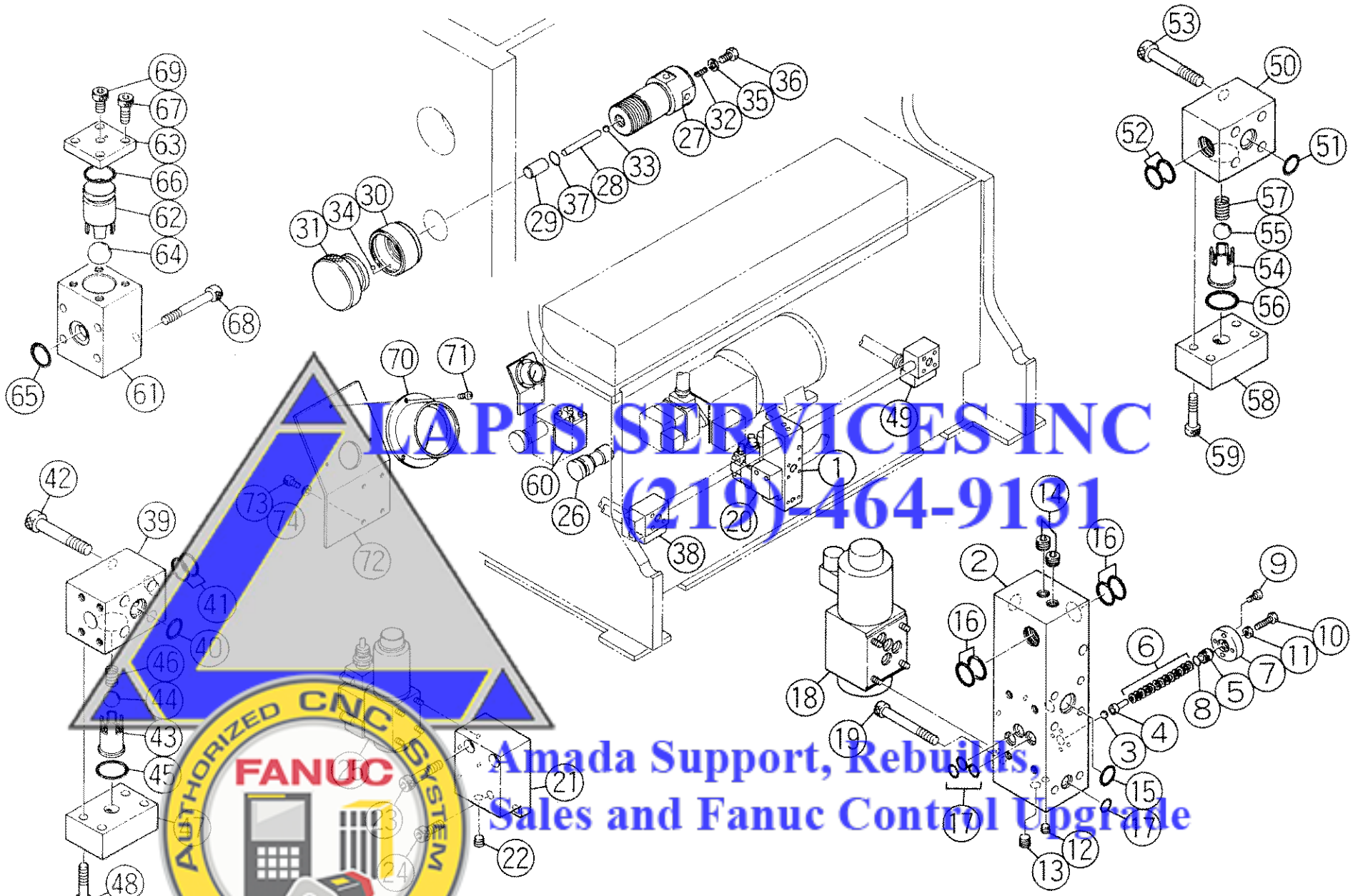

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36138222	Main block ass'y	4123969A		1 set		
2	36138230	Block	4123970A		1		
3	36138714	Steel ball		5/16"	1		
4	36138201	Ball support	4095480		1		
5	36138207	Spool	4095481		1		
6	36138731	Cone disk spring		R-11	13		
7	36138213	Cap	4095482		1		
8	36147413	O-ring		1BP10	1		
9	36147101 (74302810)	Cap screw		M5 x 10	4		
10	36147004 (36323015)	Bolt		M6 x 20	1		
11	36147805 (74304422)	Nut		M6 type-3	1		
12	36138622 (58147621)	Plug		PT 1/8"	1		
13	36138621 (58141008)	Plug		PT 1/4"	1		
14	36138623 (44552306)	Plug		PT 3/8"	2		
15	36147418 (38121643)	O-ring		1BP22	1		
16	36147421 (36111006)	O-ring		1BP26	4		
17	36147415	O-ring		1BP14	4		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36170801	Solenoid valve		SAH-G03-HK3 -F2-E1-8332B (Nachi)	1		
19	36147138	Cap screw		M10 x 85	6		
20	36133606	Sequence valve ass'y	4134427		1 set		
21	36133625	Block	4123995		1		
22	36134007 (58147621)	Plug		PT 1/8"	1		
23	36147133 (74314415)	Cap screw		M10 x 50	2		
24	36147128 (38124012)	Cap screw		M10 x 25	2		
25	36133702	Solenoid valve	7936057		1		
26		Cut-off valve ass'y					
	36134404	RG80S	4091378		1 set		
	36134403	RG80	4091376		1 set		
27		Valve body					
	36134421	RG80S	4091379		1		
	36134420	RG80	4091377		1		
28		Cut-off valve					
	36134504	RG80S	50.48030.0		1		
	36134503	RG80	50.48029.0		1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
29	36134517	Spool	50.42515.1		1		
30	36134522	Lock nut	50.28059.1A		1		
31	36134527	Adjusting screw	50.57514.1		1		
32	36134532 (36325708)	Pressure spring	50.44046.3		1		
33	36133127	Steel ball		ϕ7	1		
34	36134707	Steel ball		ϕ3.175	1		
35	36134701	Seal washer		W8	1		
36	36147005 (36325722)	Bolt		M8 x 10	1		
37	36147416	O-ring		1BP15	1		
38	36135202	Check valve (I) ass'y	4045010B		1 set		
39	36135230	Valve body	4045011B		1		
40	36147418 (38121649)	O-ring		1BP22	1		
41	36147424 (36111006)	O-ring		1BP26	2		
42	36147146	Cap screw		M14 x 80	4		
43	36135320	Ball guide	4045012C		1		
44	36135703	Steel ball		ϕ19	1		
45	36147424 (38123330)	O-ring		1BP32	1		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
46	36135402	Spring	4047294		1		
47	36135415	Valve cap	4045013		1		
48	36147132 (36113117)	Cap screw		M10 x 45	4		
49	36135204	Check valve (II) ass'y	4045014B		1 set		
50	36135231	Valve body	4045015B		1		
51	36147418 (38121649)	O-ring		1BP22	1		
52	36147421 (36111006)	O-ring		1BP26	2		
53	36147146	Cap screw		M14 x 80	4		
54	36135320	Ball guide	4045012C		1		
55	36135703	Steel ball		ϕ19	1		
56	36147424	O-ring		1BP32	1		
57	36135402	Spring	4047294		1		
58	36135415	Valve cap	4045013		1		
59	36147132 (36113117)	Cap screw		M10 x 45	4		
60	36135206	Check valve (III) ass'y	4046173A		1 set		
61	36135229	Valve body	4043995		1		
62	36135319	Ball guide	4043996		1		

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Hydraulic valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
63	36135414	Valve cap	4043997		1		
64	36135705	Steel ball		ϕ28	1		
65	36147421 (36111006)	O-ring		1BP26	1		
66	36147424 (38123330)	O-ring		1BP32	1		
67	36147128 (38124012)	Cap screw		M10 x 25	4		
68	36147137 (74306323)	Cap screw		M10 x 75	4		
69	36147127 (44028704)	Cap screw		M10 x 20	1		
70	36120159	Pressure gauge	7936067		1		
71	36147310 (74305017)	Pan head machine screw		M5 x 10	3		
72	36120165	Bracket	4131388A		1		
73	36147104 (74302313)	Cap screw		M6 x 12	4		
74	36177004 (44027930)	Washer		M6	4		

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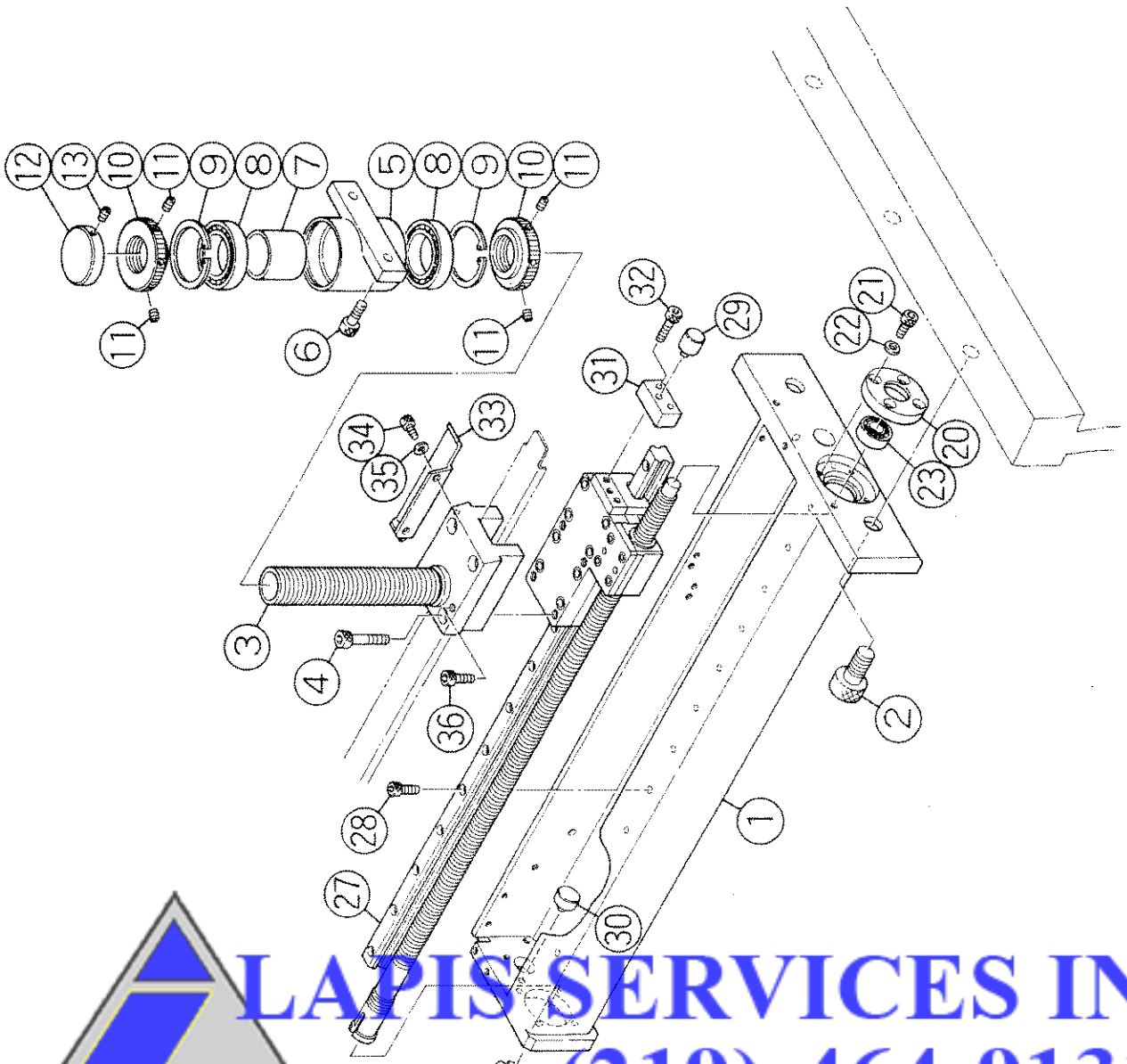

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Unit No. 23
Support (1)

From serial No. 5080509508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36180504	Support	4128766D		2		
2	36180551	Cap screw		M20 x 35	4		
3	36180601	Post	4128767A		2		
4	36176726 (74314415)	Cap screw		M10 x 50	8		
5	36172031	Stretch holder	4128768A		2		
6	36176722 (21415514)	Cap screw		M8 x 25	4		
7	36180605	Collar	4128769		2		
8	36180609 (58135811)	Ball bearing		#6008ZZ (NTN)	4		
9	36180610	Retaining ring		BR-68 (NTN)	4		
10	36180607	Adjusting nut	4128770A		4		
11	36176913	Set screw		M5 x 10 cup end loc-wel (unbrako)	8		
12	36180603	Cap	4128771		2		
13	36180564	Set screw		M5 x 10 cup end	2		
14	36180521	Bearing retainer A	4128772		2		
15	36176716 (74302815)	Cap screw		M6 x 20	8		
16	36180520	Ball bearing set		#7205CDB (NTN)	2		
17	36180522	Bearing retainer	4128773		2		

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AUTHORIZED CNC SYSTEM INTEGRATOR
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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36180552	Cap screw		M6 x 12 loc-wel (unbrako)	8		
19	36180513	Key	4128774		2		
20	36180528	Bearing retainer B	4128775		2		
21	36176714 (74300604)	Cap screw		M6 x 15	8		
22	36177004 (44027930)	Washer		M6	8		
23	36172133 (61163323)	Ball bearing		#6202ZZ (NTN)	2		
24	36180515	Spacer	4128776		2		
25	36180524 (10205421)	Crown nut		AN05 (NTN)	2		
26	36180525 (58135320)	Crown washer		AW05 (NTN)	2		
27	36180511	LM guide	7950001C		2		
28	36176716 (74302815)	Cap screw		M6 x 20	26		
29	36180518	Stopper	4160294		2		
30	36180519	Stopper	4160295		2		
31	36180532	Spacer	4128898C		2		
32	36176716 (74302815)	Cap screw		M6 x 20	4		
33	36170617	Dog	4128781A		2		
34	36180552	Cap screw		M6 x 12 loc-wel (unbrako)	4		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36177004 (44027930)	Washer		M6	4		
36	36180550 (74300605)	Cap screw		M8 x 12	2		
37	36180625 (36004320)	DC motor		U825T-062E02	2		

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Unit No. 24
Support (2)

From serial No. 5000509508 and after.

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36180717	LM guide cover	4128779		2		
2	36176712 (74302813)	Cap screw		M6 x 12	4		
3	36177004 (44027930)	Washer		M6	8		
4	36180615	LS bracket	4128780A		4		
5	36180552	Cap screw		M6 x 12 loc-wel (unbrako)	8		
6	36177004 (44027930)	Washer		M6	8		
7	36180553	Cap screw		M4 x 25 loc-wel (unbrako)	8		
8	36180561	Washer		M4	8		
9	36180719	Angle	4130254B		2		
10	36176712 (74302813)	Cap screw		M6 x 12	6		
11	36177004 (44027930)	Washer		M6	2		
12	36180722	Support	4130565A		2		
13	36147002 (36323423)	Bolt		M6 x 10	8		
14	36180723	Grommet		SG-26 (Takigen)	4		
15	36144011	Sticker	810643B		2		
16	36180718	Cover	4128783C		2		
17	36177036	Countersink head socket screw		M6 x 8	4		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36180721	Angle	4128784C		2		
19	36176711 (74302812)	Cap screw		M6 x 10	4		
20	36180727	Stopper	4128785		4		
21	36180554	Button head socket screw		M6 x 10	4		
22	36180628	L-axis motor cover	4134071		2		
23	36176711 (74302812)	Cap screw		M6 x 10	4		
24	36176923 (36323020)	Spring washer		M6 type-2	4		
25	36177005	Washer		M6	4		
26	36180620	Limit switch (LS11)		SL1-A (Yamatake-Haneywell)	2		
27	36180621	Limit switch (LS14)		SL1-AKFXG2 DC24V(Yamatake-Haneywell)	2		

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From serial No. 50809508 and after.

Unit No. 25
Stretch

1991/9/20

From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Stretch					
	36180539	RG80S	4128792B		1		
	36180540	RG80	4128793B		1		
2	36181117	LM guide	7950003D		1		
3	36176722 (21415514)	Cap screw		M8 x 25	4		
4	36144011	Caution plate	810649B		1		
5	36181131	Limit switch	7935071		1		
6	36181130 (36112405)	Terminal cover		5PA2-J	1		
7	36176820	Pan head machine screw		M4 x 25	2		
8	36181133	Spring washer		M4 type-2	2		
9	36181134	Nut		M4 type-2	2		
10	36181123	Base	4130465		1		
11	3617673[illegible]	Cap screw		M6 x 20 loc-wel (unbrako)	2		
12	36181125	Dog	4130466A		1		
13	36176713 (7430281[illegible])	Cap screw		M6 x 14	2		
14	36176923 (3632302[illegible])	Spring washer		M6 type-2	2		
15	36177005	Washer		M6 polish	2		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36181127	Stopper	4130467		1		
17	36176621 (74300624)	Button head machine screw		M6 x 15	2		
18	36177005	Washer		M6 polish	2		

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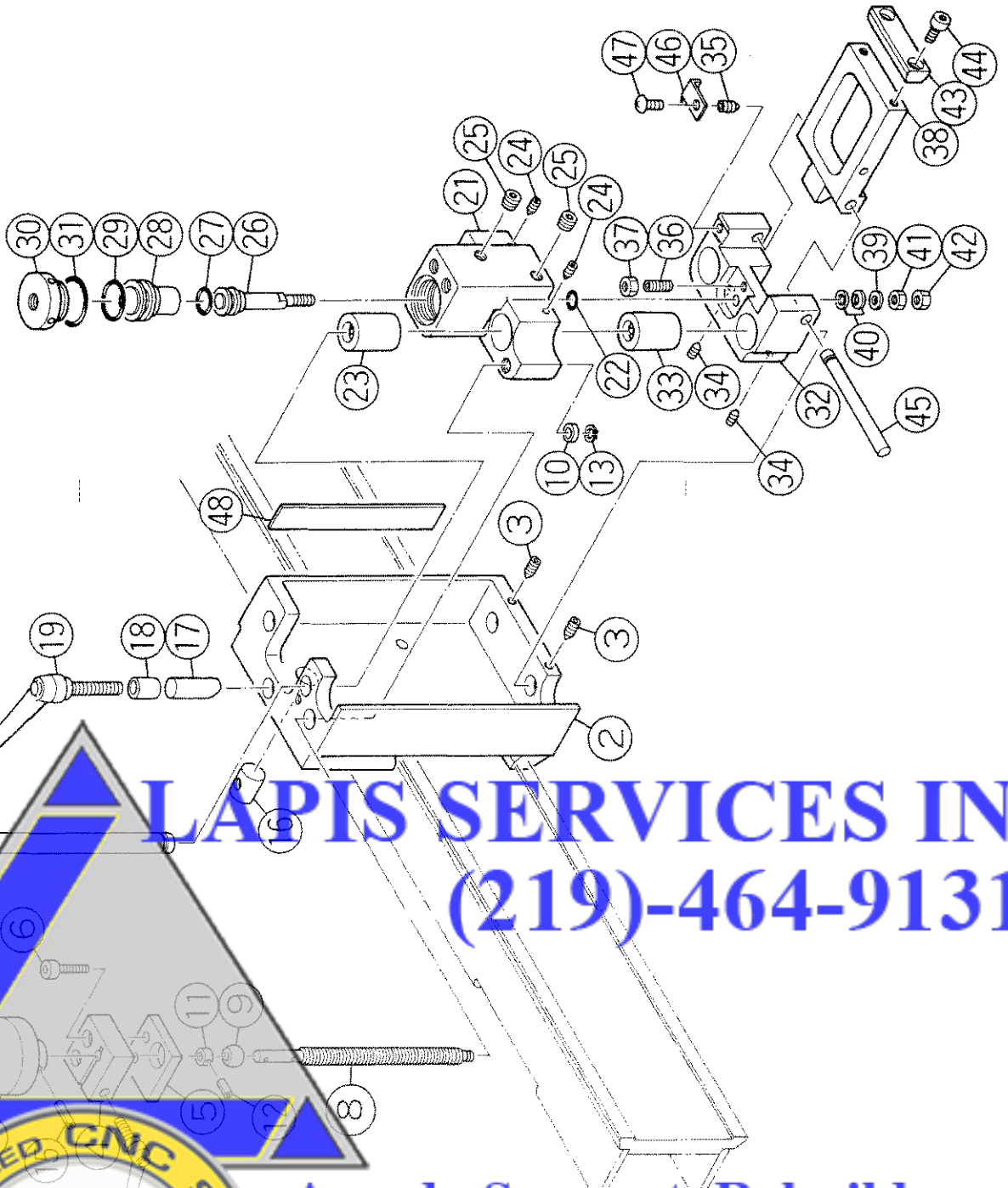

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Unit No. 26
Work stopper

From serial No. 50809508 and after.

1991/9/20

From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36181801	Work stopper ass'y	4128796F		2 set		
2	36181803	Body	4128797E		2		
3	36176908 (36323029)	Set screw		M6 x 10 cone end	4		
4	36181822	Bearing retainer	4128798A		2		
5	36181823	Bearing case	4128799		2		
6	36176717 (75168508)	Cap screw		M6 x 25	4		
7	36181826	Clamp lever		KR6 x 20 (Imao)	2		
8	36181814	Feed screw	4128800A		2		
9	36181834	Spherical shaft support		NB6 (THK)	2		
10	36181817	Collar	4128727		2		
11	36181818	Collar	4128801A		2		
12	36177012	Spring pin		ϕ3 x 10	2		
13	36181819	Stop ring		STW-6	2		
14	36181825	Handwheel	4128802		2		
15	36177013 (54117205)	Spring pin		ϕ3 x 20	2		
16	36181829	Lock nut	4128803		2		
17	36181830	Lock bar	4128804A		2		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36181831	Collar	4128805		2		
19	36181832	Clamp lever		KR8 x 40 (Imao)	2		
20	36181835	Guide rod	7950004		4		
21	36181838	Cylinder	4128806B		2		
22	36181849	O-ring		1BP10	2		
23	36181847	Linear ball bearing		LM13UU (THK)	4		
24	36181626	Set screw		M4 x 6 cone end	4		
25	36181859 (29210630)	Plug		1/8"	4		
26	36181840	Piston	4128807D		2		
27	36181850	O-ring		1BP14	2		
28	36181841	Piston	4128808A		2		
29	36181851	O-ring		1BP21	2		
30	36181843	Cap	4128809		2		
31	36181852	O-ring		S-28 (NOK)	2		
32	36181845	Holder	4128810A		2		
33	36181847	Linear ball bearing		LM13UU (THK)	4		
34	36181626	Cap screw		M4 x 6 cone end	4		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36176908 (36323029)	Set screw		M6 x 10 cone end	2		
36	36176914	Set screw		M6 x 15 dog end	2		
37	36176808 (74304422)	Nut		M6 type-3	2		
38	36181806	Work stopper	4128811B		2		
39	36177004 (44027930)	Washer		M6	2		
40	36368330	Cone disk spring		M6, 1L	4		
41	36176808 (74304422)	Nut		M6 type-3	2		
42	36176806	Nut		M6 type-1	2		
43	36181807	Pad	4128812C		2		
44	36176711 (74302812)	Cap screw		M6 x 10	4		
45	36181809	Pin	4128813A		2		
46	36181861	Pointer	4128814A		2		
47	36176834	Pan head machine screw		M6 x 8	2		
48		Scale					
	36181862	(mm)	4128815A		2		
	36181863	(inch)	4129820A		2		

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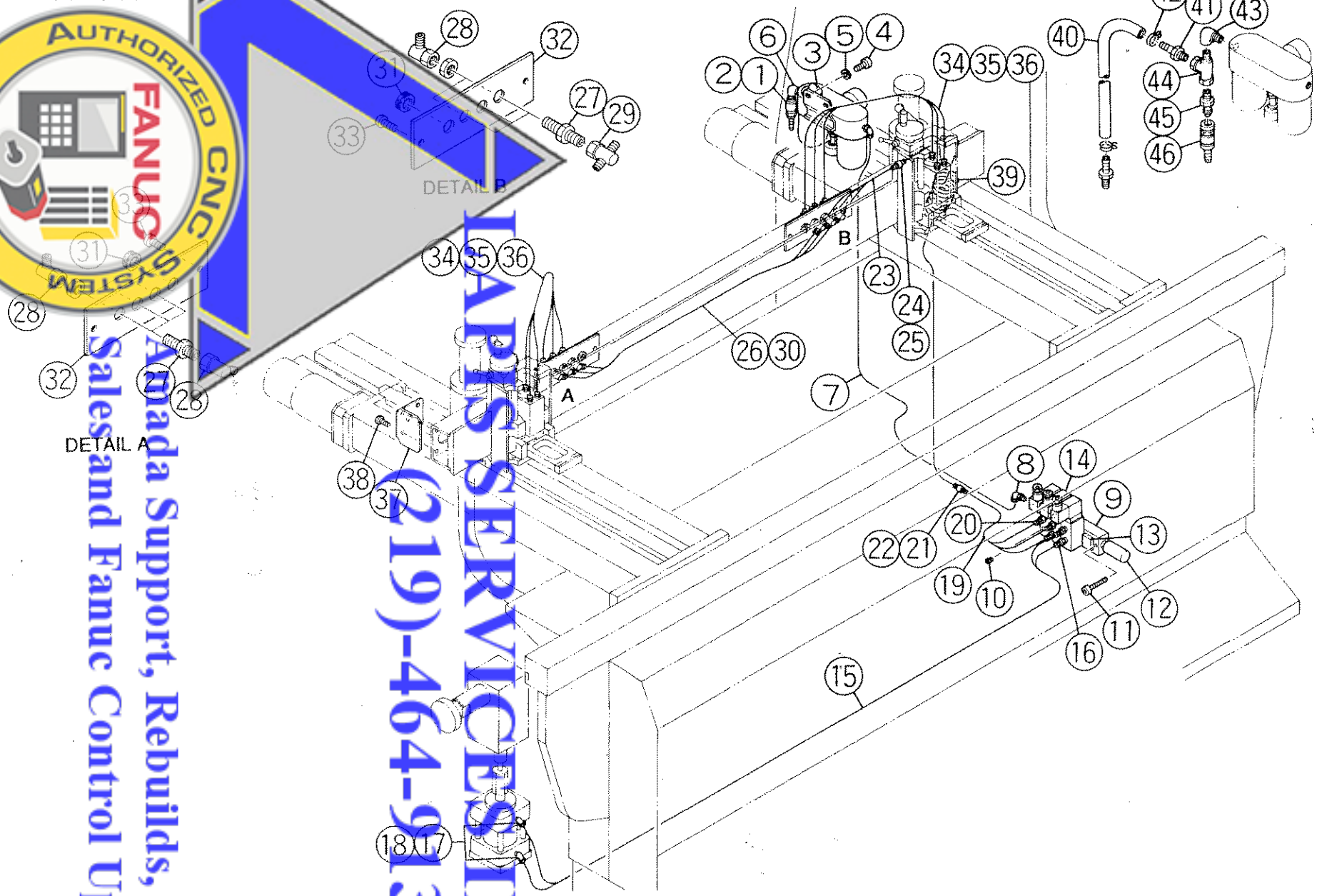
Unit No. 27
Pneumatic piping (1)

From serial No. 50809508 and after.



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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36176107 (58354701)	Plug		20PM (Nito koki)	1		
2	36176108 (74162521)	Socket		20SM (Nito koki)	1		
3	36182517	Air supply unit		AU200-02BG-R (SMC)	1		
4	36176739 (36329937)	Cap screw		M8 x 10	2		
5	36176924 (10001521)	Spring washer		M8 type-2	2		
6	36182552	Elbow		PT 1/4"	1		
7	36176119	Tube		70-08 L=2000 (Junron)	1		
8	36182549	Elbow		PL-8 x 6-PT 1/4"-BS (Junron)	2		
9	36182505	Manifold		VV3000-04-B3 (SMC)	1		
10	36182556 (29211730)	Plug		1/4"	4		
11	36176710 (74304902)	Cap screw		M5 x 35	2		
12	36182514 (36003029)	Silencer		AN200-02 (SMC)	2		
13	36182509	Blind plug		DXT031-38-1A C-Multi (SMC) Multi	1 2		
14	36182501	Solenoid valve		V5313O-1DZ-02 C-Multi (SMC) Multi	3 2		
15		Tube					C-Multi
	36176113	RG30S		70-06 L=2000 (Junron)	2		C-Multi
	36176114	RG80		70-06 L=2500 (Junron)	2		C-Multi

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36176133	Nipple		PN-6 x 4.5-PT 1/4"-BS (Junron)	2		C-Multi
17	36176140	Bushing		3/8" x 1/4"	2		C-Multi
18	36176126	Elbow		PL-6 x 4.5-PT 1/4"-BS (Junron)	2		C-Multi
19	36182606	Tube		30-06 L=1200 (Junron)	3		
20	36182547	Nipple		BN-6 x 4-PT 1/4"-BSN (Junron)	3		
21	36182553	Union		BU-6 x 4-BSN (Junron)	3		
22	36182560	Sleeve		BS-06 (Junron)	9		
23		Tube					
	36182601	RG80S		30-06 L=200 (Junron)	3		
	36182602	RG80		30-06 L=350 (Junron)	3		
24	36182553	Union		BU-6 x 4-BSN (Junron)	3		
25	36182560	Sleeve		BS-06 (Junron)	6		
26		Tube					
	36182604	RG80S		30-06 L=800 (Junron)	3		
	36182606	RG80		30-06 L=1100 (Junron)	3		
27	36182554	Panel union		PF-1/8" x 1/8" (Junron)	6		
28	36182548	Elbow		BL-6 x 4-PT 1/8"-BSN (Junron)	9		

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Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
29	36182556	Tee		BTA-6 x 4-PT 1/8"-BSN (Junron)	3		
30	36182560	Sleeve		BS-06 (Junron)	15		
31	36182650	Grommet		SG-16A (Takigen)	2		
32	36182629	Panel	4129070		2		
33	36176620 (74306424)	Button head machine screw		M6 x 10	4		
34		Tube					
	36182608	RG80S		30-06 L=600 (Junron)	6		
	36182603	RG80		30-06 L=700 (Junron)	6		
35	36182545	Nipple		BN-6 x 4-PT 1/8"-BSN (Junron)	6		
36	36182560	Sleeve		BS-06 (Junron)	6		
37		Cover (2)					
	36171619	RG80S	4129077A		1		
	36182627	RG80	4129072A		1		
38	36176620 (74306424)	Button head machine screw		M6 x 10	4		
39		Cover					
	36185004	RG80S	4129302D		1		
	36185005	RG80	4129303D		1		

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From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
40	36182662	Rubber hose		MID-9 L=600 (Yokohama)	1		Option
41	36182659	Nipple		NH-65 (Koyo)	2		Option
42	36182663	Clip		#00	2		Option
43	36182655	Elbow		1/4"	1		Option
44	36182557	Tee		PT 3/8"	1		Option
45	36182544	Plug		30PM (Nito koki)	1		Option
46	36182543	Socket		30SH (Nito koki)	1		Option

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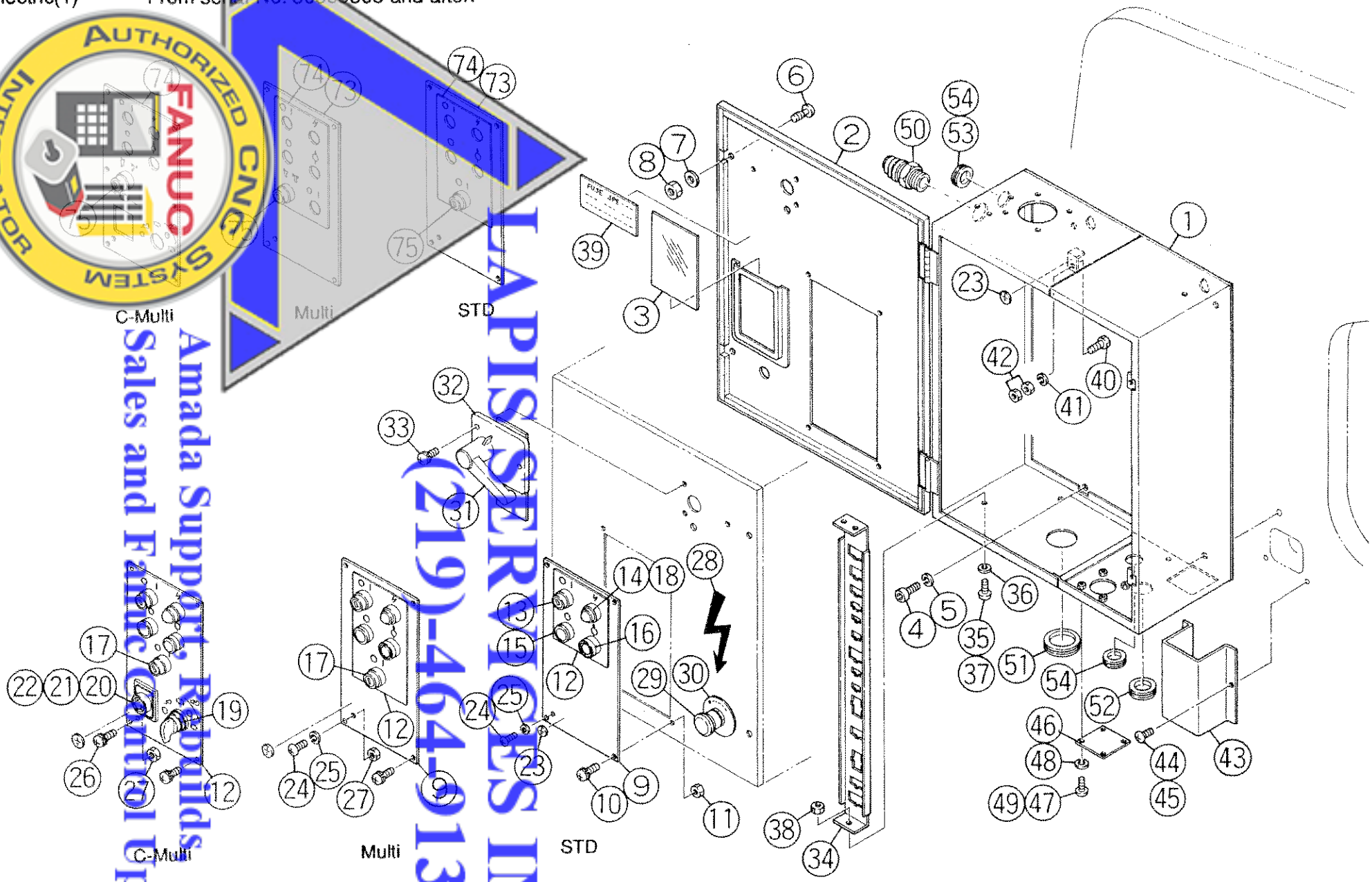
Unit No. 28
Electric(1)

From serial No. 50809508 and after.



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STD ..... standard machine
Multiple ..... multiple lower limit machine
C-Multiple ..... continuous multiple lower limit machine

Unit No. 28

From serial No. 50809508 and after.

Electric (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36183540	Electrical box	4128747B		1		
2	36140418	Rubber packing		10 x 10 x 1800 L	1		
3	36140422	Acrylic resin plate		105 x 145 x t0.5	1		
4	36147115	Cap screw		M8 x 16	4		
5	36147610	Spring washer		M8 type-2	4		
6	36140207 (36329401)	Screw	4095509		2		
7	36147708	Washer		M8 polish	2		
8	36147807 (36329932)	Nut		M8 type-3	2		
9		Plate					
	36140214	STD mach.	4124479B		1		
	36183922	Multiple lower limit mach.	4124360A		1		
10	36177211	Pan head sems screw (2 pcs)		M5 x 8	4		
11	36147802	Nut		M5 type-2	4		
12		Control panel					
	36140201	STD mach.	4095508A		1		
	36183927	Multiple lower limit mach.	4129359B		1		
	36140028	Continuous multiple lower limit mach.	4129104D		1		

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STD ..... standard machine
Multiple ..... multiple lower limit machine
C-Multiple ..... continuous multiple lower limit machine

Unit No. 28
Electric (1)

From serial No. 50809508 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
13		Select switch SS1					
	36140801	STD. mach, Continuous multiple lower limit mach.		AH22-J2A11A black (Fuji)	1		
	36183952	Multiple lower limit mach.		AH22-J2A22A black (Fuji)	1		
14	36140807	Pilot light PL1		AH22-ZMWH black (Fuji)	1		
15	36140729	Push button switch PB1		AH22-FR01 black (Fuji)	1		
16	36140730	Push button switch PB2		AH22-GL1G11H green (Fuji)	1		
17	36183952	Select switch SS4		AH22-J2A22A black (Fuji)	1		Multi C-Multi
18	36140906	Noise filter		Z10L-221			
19	36140148	Cam switch		RC310F-1M56J (Fuji)	1		C-Multi
20	36140652	Timer TR3		ST8PA 10 sec DC24V (Fuji)	1		C-Multi
21	36141406 (38125212)	Socket		ATXINS (Fuji)	1		C-Multi
22	36183522	Diode		1BZ61 (Toshiba)	1		C-Multi
23	36140026	Sticker (ground)		AS-K	2		
24	36176822	Pan head machine screw		M5 x 10	1		STD, Multi
25	36147604 (4402792)	Spring washer		M5	1		STD, Multi
26	36177211	Pan head screws screw (2-pcs)		M5 x 8	1		C-Multi
27	36147802			M5 type-2	1		C-Multi

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