

DEC. 1990

**HYDRAULIC PRESS BRAKE
TYPE ZII
RG-80(RG-80 AUTO B/G)**



LAPIS SERVICES INC
(219)-464-9131

PARTS LIST

**Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade**



LAPIS SERVICES INC
(219)-464-9131



**Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade**

GENERAL INFORMATION

- * This parts list shows all of the parts used in your RG-80 or RG-80 AUTO B/G 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 33 different units making up the machine.

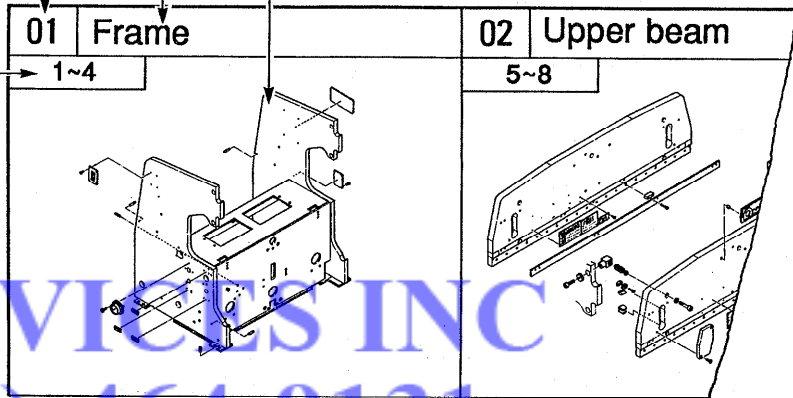
Unit No. 01	Frame	16	Distributor
02	Upper beam	17	Pump unit
03	Lower beam	18	Hydraulic tank
04	Support plate	19	Hydraulic piping
05	Upper post	20	Hydraulic valve
06	Upper limit setting device (1)	21	Electric (1)
07	Upper limit setting device (2)	22	Electric (2)
08	Lower limit setting device	23	Electric (3) - Backgauge
09	Guide roller	24	Cover
10	Pedal	25	Backgauge (1)
11	Pedal lock device	26	Backgauge (2)
12	Tool holder	27	Backgauge (3)
13	Speed change setting device	28	Backgauge (4)
14	Main cylinder	29	Backgauge (5)
15	Sub cylinder	30	Backgauge (6)
		31	Standard accessories
		32	Work stopper (1)
		33	Work stopper (2)

- * 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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INTRODUCTION

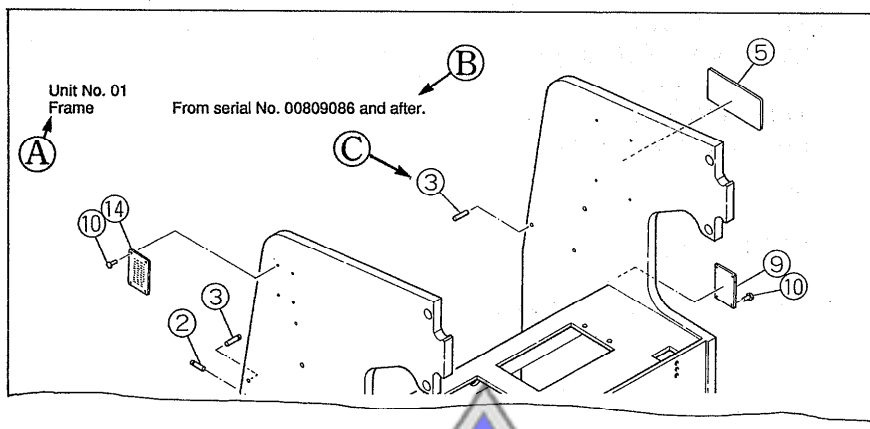
1. TABLE OF CONTENTS

I	01	Frame	II	02	Upper beam
III	1~4			5~8	
IV					

- I Unit No.
- II Unit Name
- III Corresponding Page Nos.
- IV Assembly drawings shown in the main text.

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2. Main Text



Unit No. 01
Frame

From serial No. 00809086 and after.

Unit No. 01
Frame

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Qty	Parts No.	Note
1		Frame					
	36120140	(Japan)	4099961E		1		
	36120106	(EXP)	4124015E		1		
2	36120602	Grooved pin		B- ϕ 14 x 60	1		
3	36120603	Grooved pin		D- ϕ 10 x 60	4		
4	36120604	Grooved pin		D- ϕ 10 x 40	8		
5		Bending chart					
	36120514	(Japan)	6034407A		1		

(A) Unit No. and Name

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

(B) Machine Serial No.

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

(C) Index No.

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

(D) Part No.

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

(E) Parts Name

The name (description) of each part.

(F) Drawing

The numbers of drawings relevant to the part are given.

(G) Type (Maker)

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

(H) Quantity

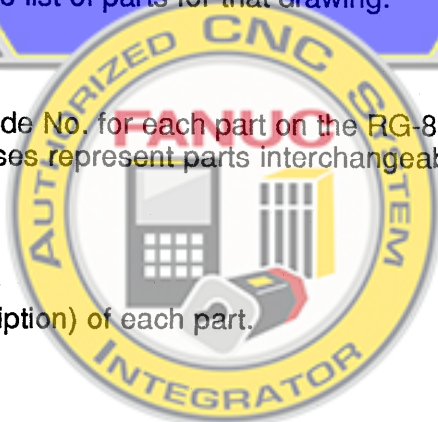
The quantity of each part used on the Japanese domestic and export models is shown.

(I) 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.

(J) Notes

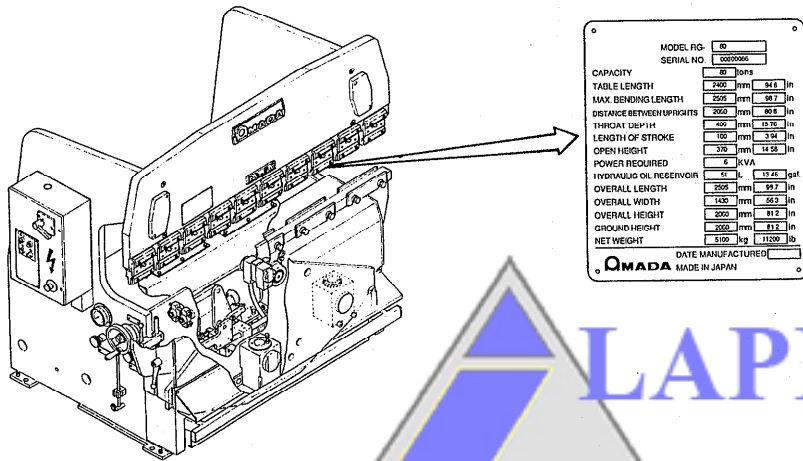
Cautions and notes necessary to the ordering of each part.



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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.



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.

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

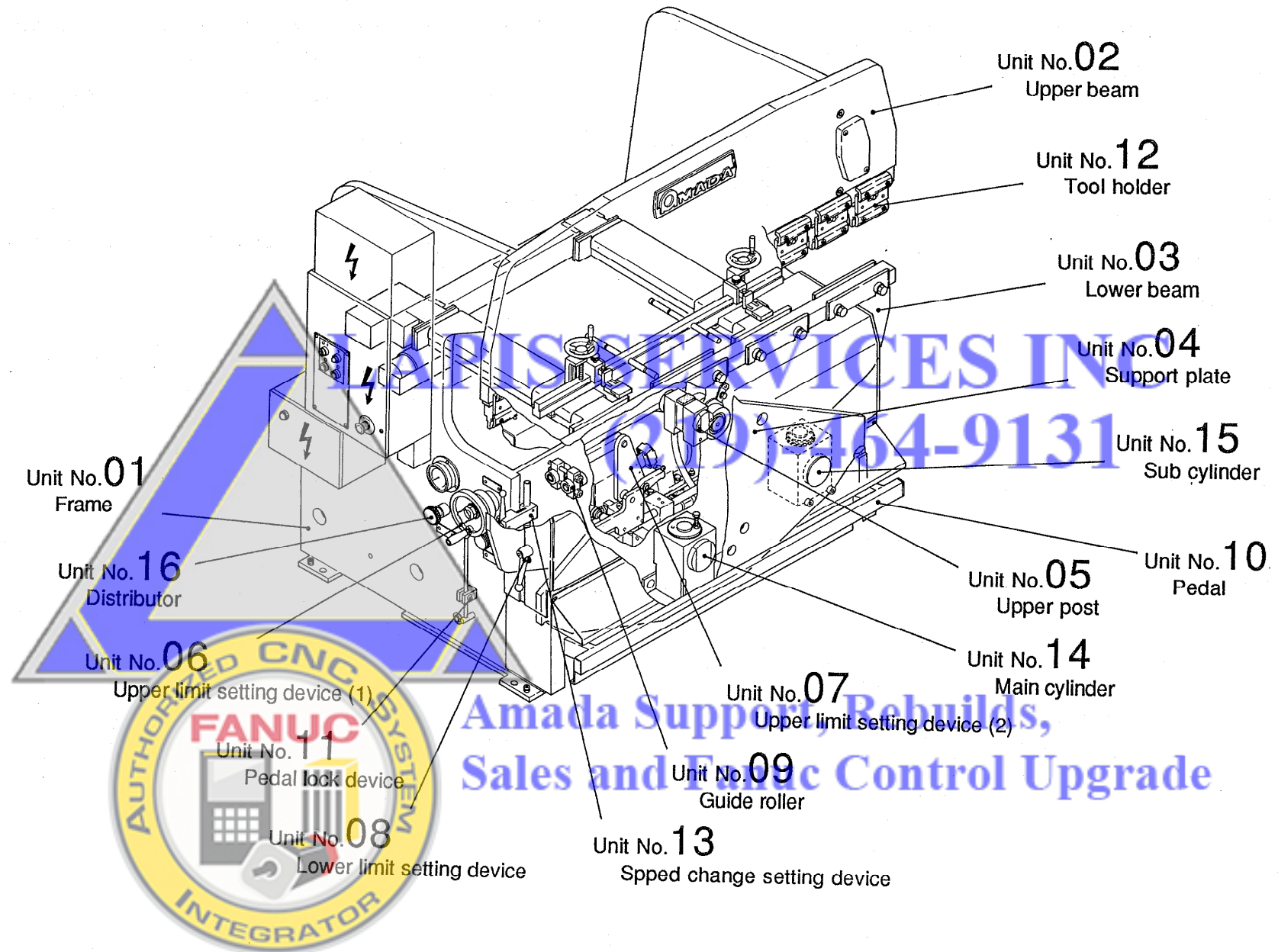
CONTENTS (I)			
01 Frame 1-4	02 Upper beam 5-8	03 Lower beam 9-12	04 Support plat 13-16

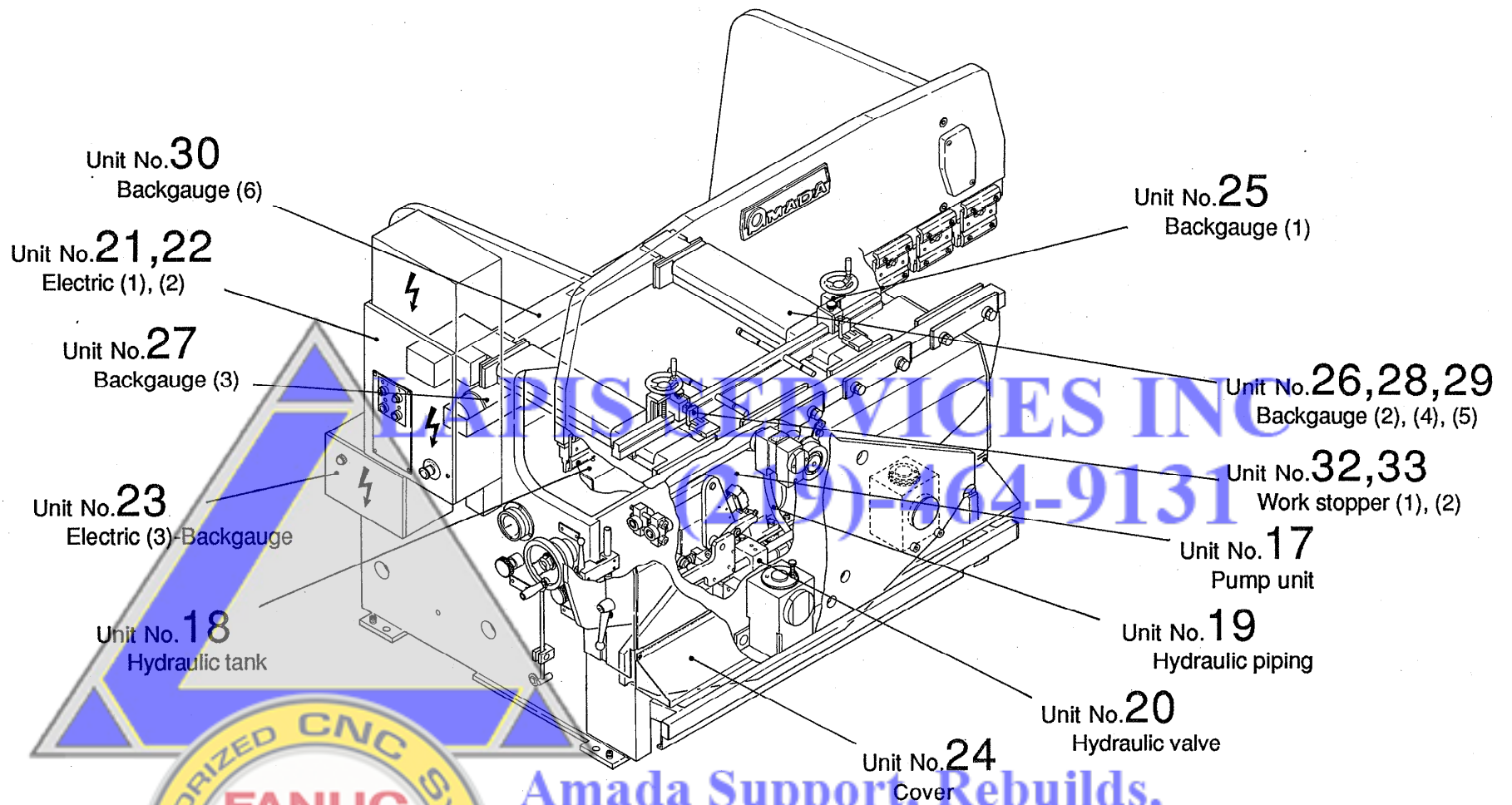
This unit is shown on Pages 9-12.

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MACHINE COMPONENT

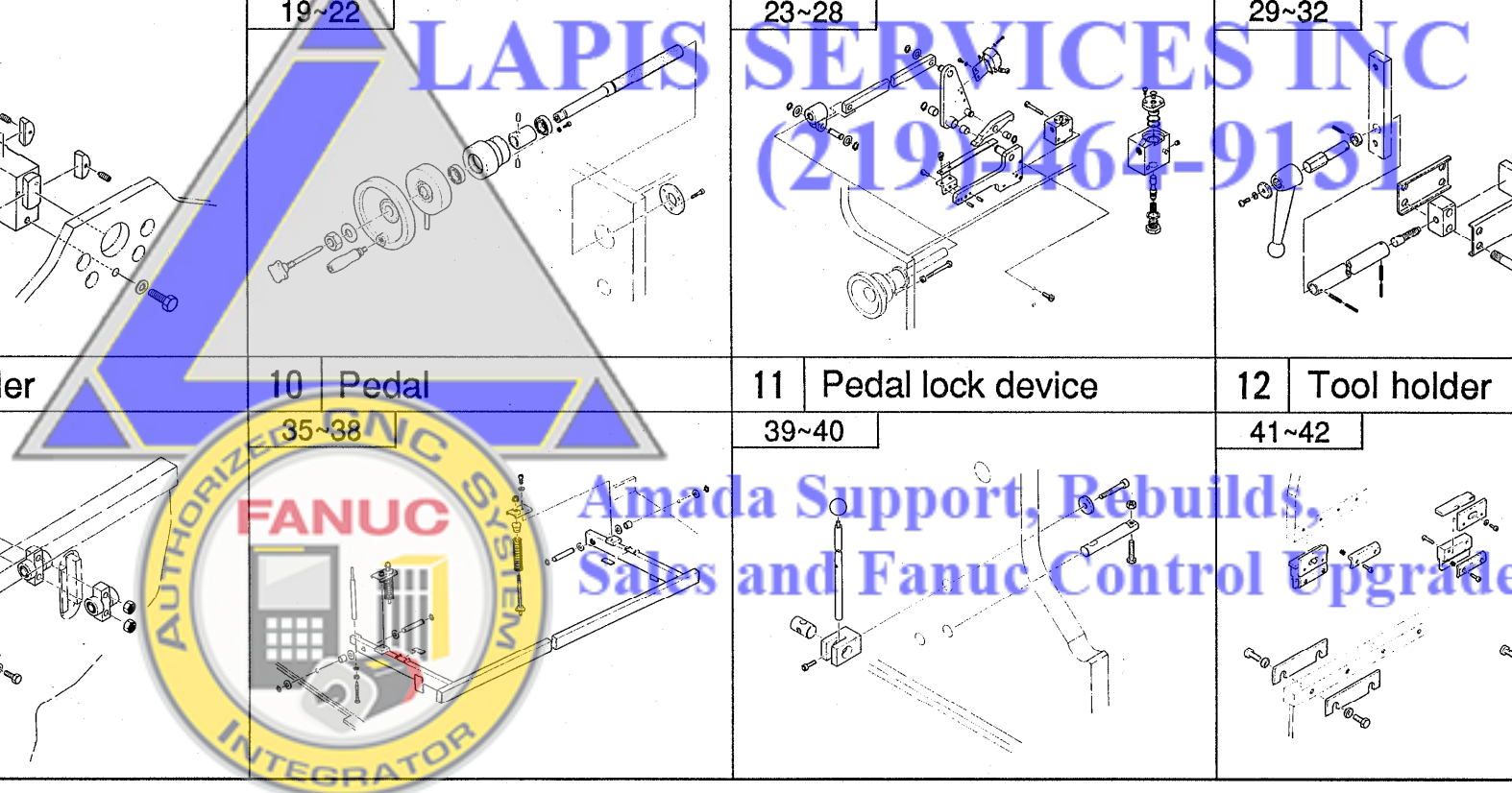




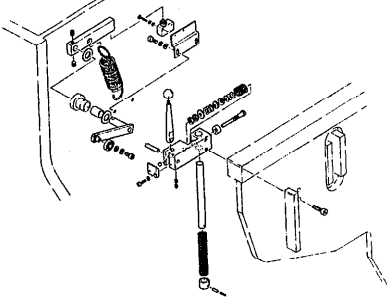
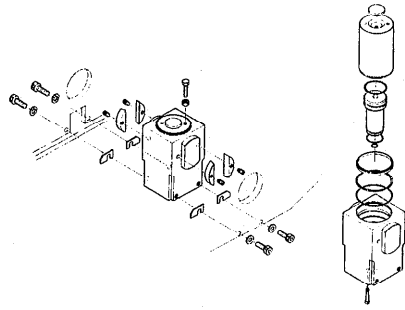
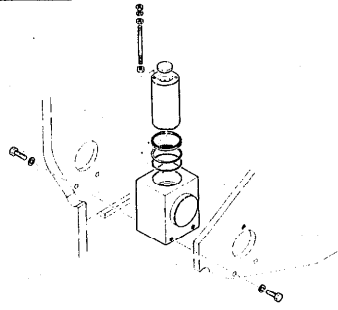
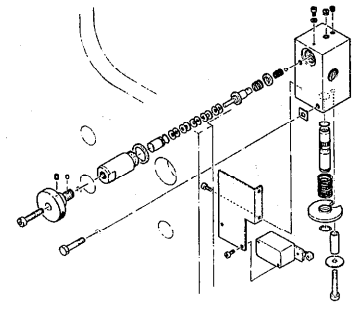
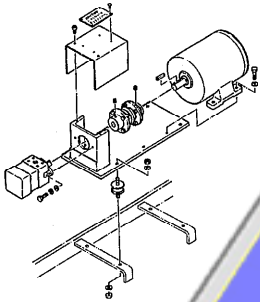
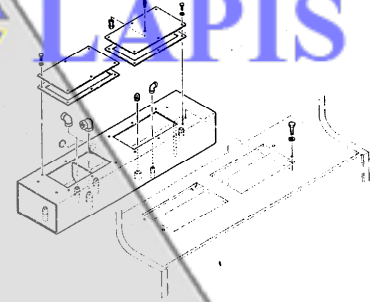
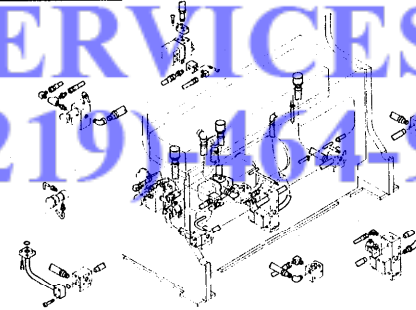
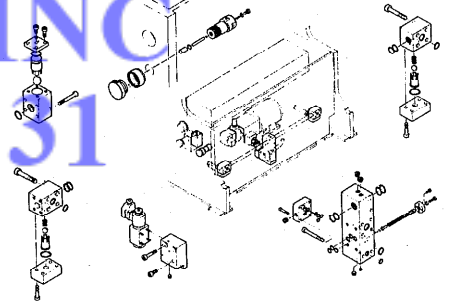
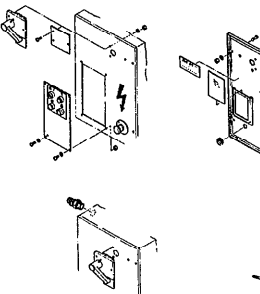
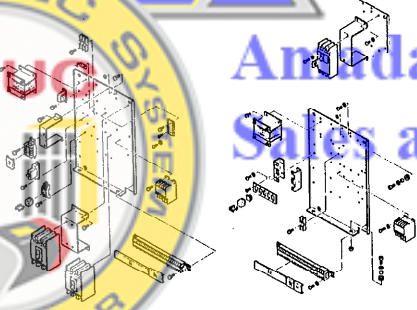
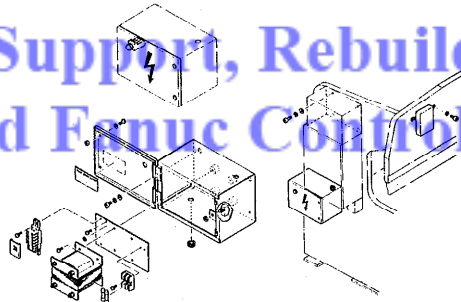
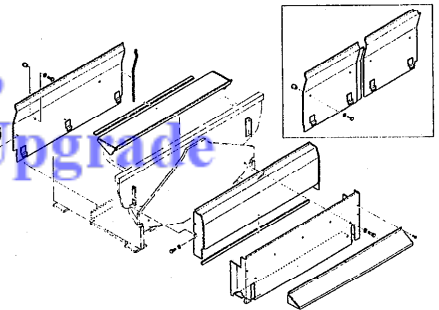
**Amada Support, Rebuilds,
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CONTENTS (1)

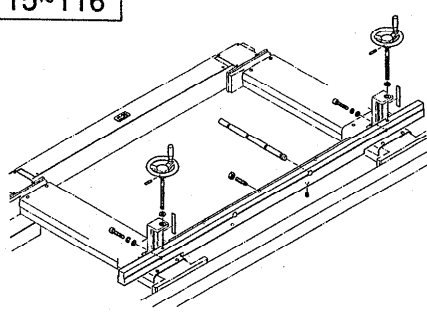
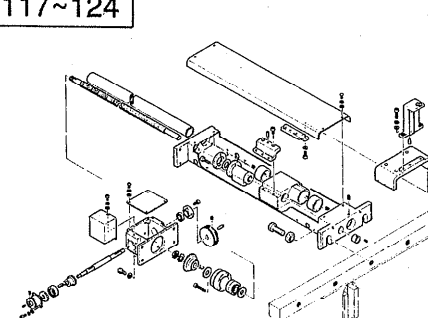
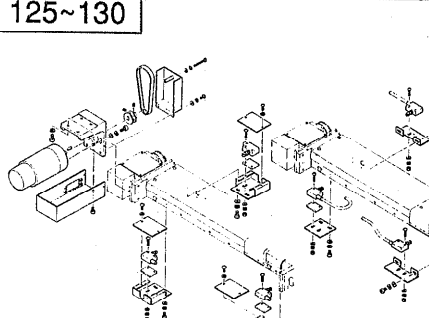
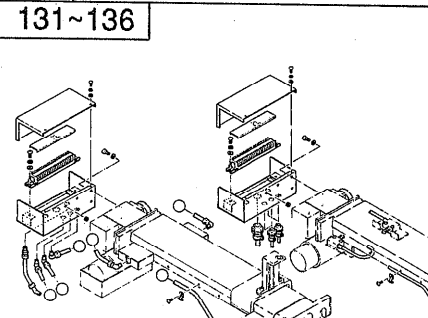
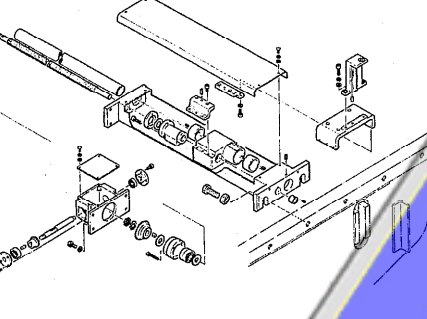
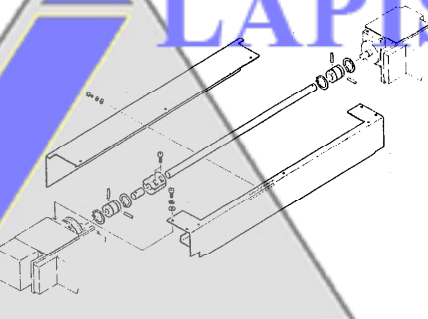
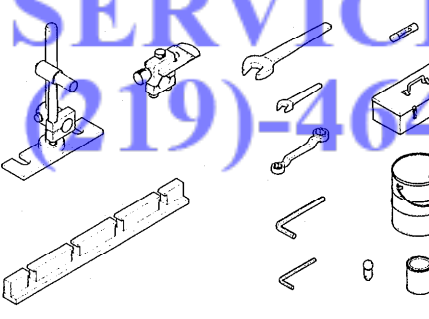
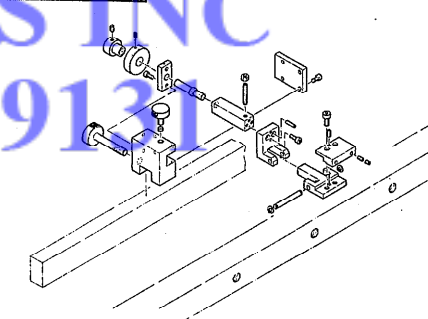
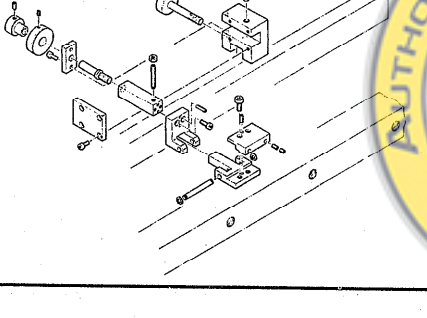
01 Frame 1~4	02 Upper beam 5~8	03 Lower beam 9~12	04 Support plate 13~16
05 Upper post 17~18	06 Upper limit setting device (1) 19~22	07 Upper limit setting device (2) 23~28	08 Lower limit setting device 29~32
09 Guide roller 33~34	10 Pedal 35~38	11 Pedal lock device 39~40	12 Tool holder 41~42



CONTENTS (2)

13 Speed change setting device 43~48 	14 Main cylinder 49~52 	15 Sub cylinder 53~54 	16 Distributor 55~58 
17 Pump unit 59~62 	18 Hydraulic tank 63~64 	19 Hydraulic piping 65~70 	20 Hydraulic valve 71~80 
21 Electric (1) 81~90 	22 Electric (2) 91~104 	23 Electric (3) - Backgauge 105~110 	24 Cover 111~114 

CONTENTS (3)

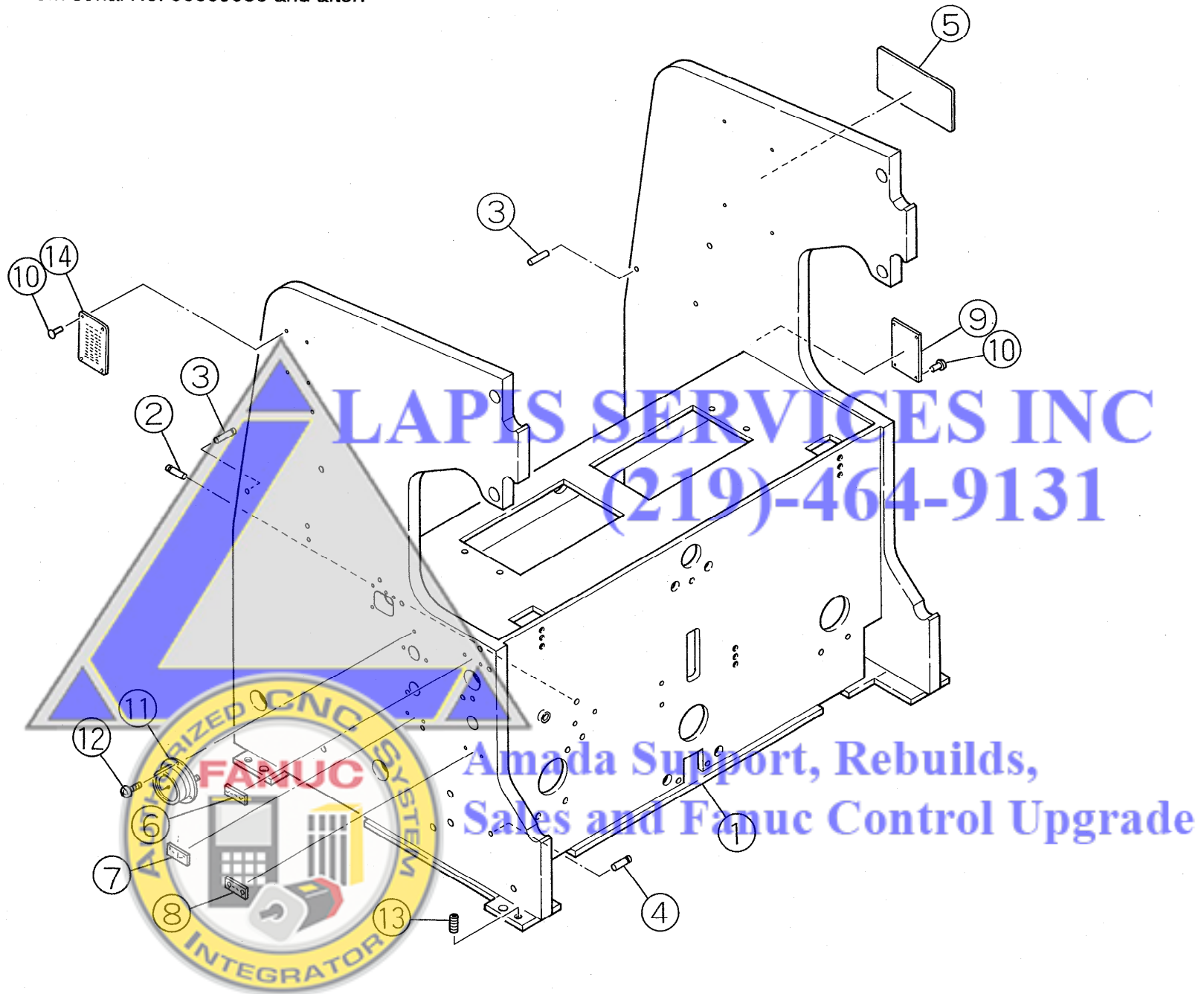
25 Backgauge (1) 115~116 	26 Backgauge (2) 117~124 	27 Backgauge (3) 125~130 	28 Backgauge (4) 131~136 
29 Backgauge (5) 137~144 	30 Backgauge (6) 145~146 	31 Standard accessories 147~148 	32 Work stopper (1) 149~152 
33 Work stopper (2) 153~156 	Amada Support, Rebuilds, Sales and Fanuc Control Upgrade		



**Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade**

Unit No. 01
Frame

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Frame					
	36120140	(Japan - STD)	4099961F		1		
	36120460	(Japan - AUTO B/G)	4130226		1		
	36120106	(EXP - STD)	4124015E		1		
	36120461	(EXP - AUTO B/G)	4130334		1		
2	36120602	Grooved pin		B- ϕ 14 x 60	1		
3	36120603	Grooved pin		D- ϕ 10 x 60	4		
4	36120604	Grooved pin		D- ϕ 10 x 40	8		
5		Bending chart					
	36120514	(Japan)	6034407A		1		
	36120515	(EXP - m/m)	4095658D		1		
	36120516	(EXP - 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					
	36120440	(Japan)	4091499C		1		

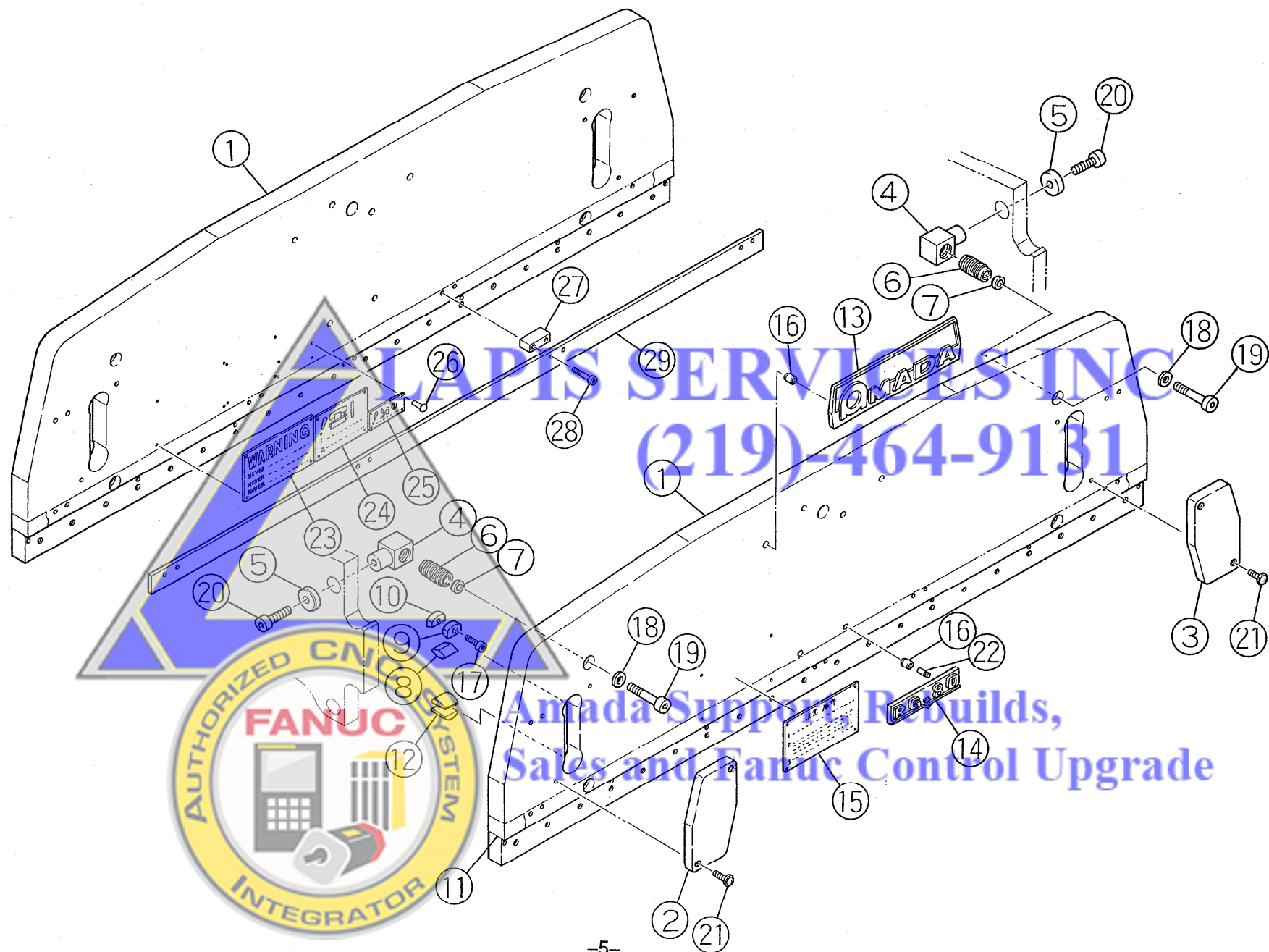


Unit No. 01
Frame

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Unit No. 02
Upper beam

From serial No. 00809086 and after.



From serial No. 00809086 and after.

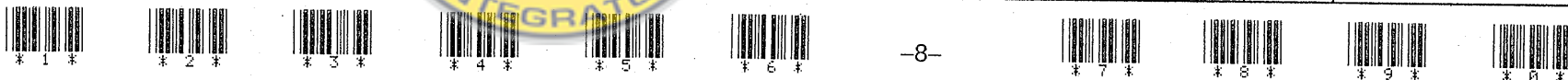
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Upper beam					
	36121018	(Japan)	4120126G		1		
	36121030	(EXP)	4127925E		1		
2	36121102	Cover (left)	6085256		1		
3	36121111	Cover (right)	6085257		1		
4	36121227	Support block	4120194		4		
5	36121211	Washer	6085258		4		
6	36121201	Adjusting screw	6085259		4		
7	36121206	Spherical support	6085305		4		
8	36121121 (36320820)	Lock piece	6085368		2		
9	36121120 (36320818)	Lock piece	6085367		2		
10	36121119 (36107301)	Lock piece	6085377		2		
11	36121528	Sticker		40 x 2700 L	1		
12	36121219 (36320825)	Adjusting piece	6085369		4		
13		Amada plate					
	36121404	(Japan)	6026948		1		
	36121402	(EXP)	7937046A		1		



From serial No. 00809086 and after.

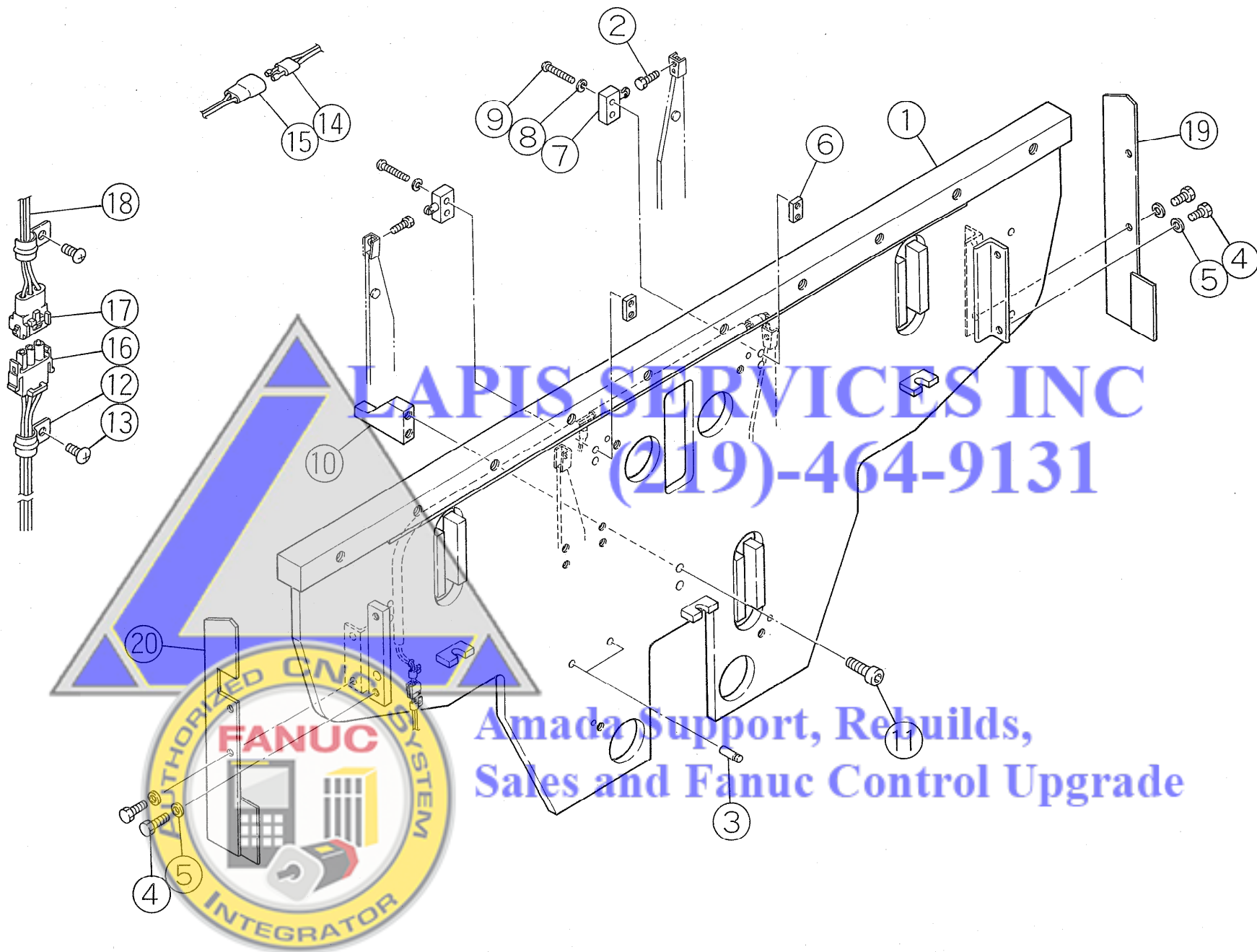
Unit No. **02**
Upper beam

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36121411	Model plate	4133943		1		
15	36121427	Legend plate (warning)	4120688C		1		Japan ~ Dec. '90
16	36121420 (36320006)	Holder	7919508A	Japan ... EXP ...	2 6		
17	36147132 (36113117)	Cap screw		M10 x 45	2		
18	36121212 (36320901)	Washer	4120676		4		
19	36147153	Cap screw		M16 x 90	4		
20	36147152 (10555634)	Cap screw		M16 x 60	4		
21	36147330	Countersink head machine screw		M8 x 30	4		
22	36121424 (36320019)	Screw	4138468A		2		
23	36121431	Legend plate (warning)	4095870		1		EXP
24	36121433	Legend plate (caution)	4044752C		1		EXP
25	36121432	Legend plate (caution)	4044750		1		EXP
26	36148007	Drive screw rivet		φ1.8 x 4.8	12		EXP
27	36121511	Spacer	4098687B		4		EXP
28	36147112 (74314409)	Cap screw		M6 x 50	4		EXP
29	36121517	Plate	4098690A		1		EXP
30	36121425	Legend plate (caution)	6600042		1		Japan



Unit No. 03
Lower beam

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36122005	Lower beam	4041552G		1		
2	36147031 (10442940)	Bolt		M6 x 30	2		
3	36122438	Grooved pin		BX- ϕ 12 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)	2		
8	36147602 (44027327)	Spring washer		M4	4		
9	36147306	Pan head machine screw		M4 x 60	4		
10	36122207	Bracket	4095636A		1		
11	36147149 (36322121)	Cap screw		M16 x 45	2		
12	36122428 (44027304)	Saddle		CH-6 (Daiwa)	2		
13	36147308	Pan head machine screw		M5 x 8	2		
14	36122416	Pin		350547-1 (AMP)	2		
15	36122422 (74306812)	Socket		350550-1 (AMP)	2		
16	36122431	Plug		1-480700-1 (AMP)	1		
17	36122432	Receptacle		1-480701-1 (AMP)	1		

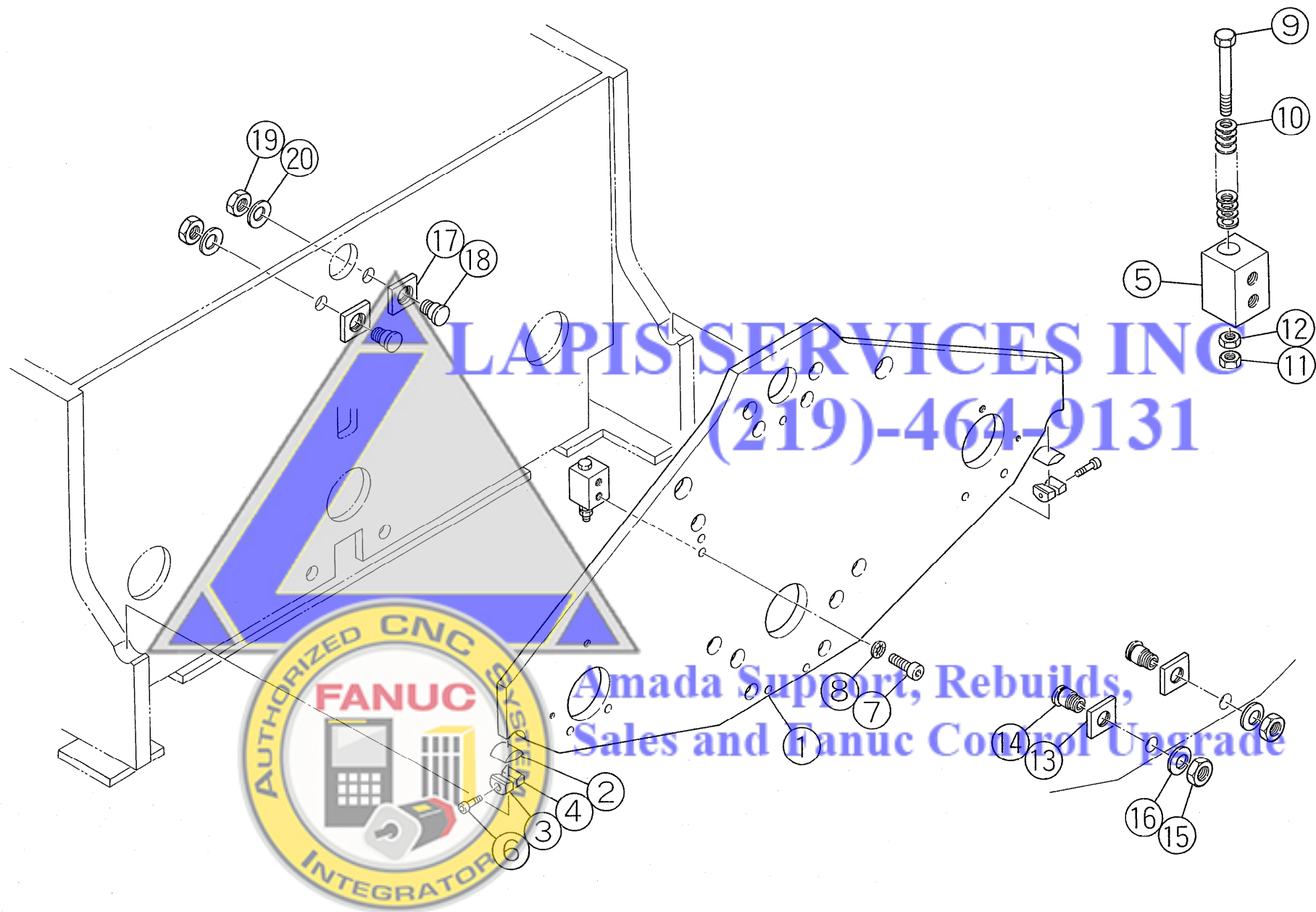


Unit No. 03
Lower beam

* 1 * * 2 * * 3 * * 4 * * 5 * * 6 * -12- * 7 * * 8 * * 9 * * 0 *

Unit No. 04
Support plate

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36122805	Support plate	4090473B		1		
2	36122830 (36320820)	Lock piece	51.46314.1A		2		
3	36122829 (36320818)	Lock piece	51.46313.2A		2		
4	36122828 (36107301)	Lock piece	51.46309.2A		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		
11	36147812	Nut		M12 type 2	1		
12	36147813	Nut		M12 type 3	1		
13	36123906	Plate	4161315		4		
14	36123811	Eccentric shaft	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	36123906	Plate	4161315		4		



* 1 *



* 2 *



* 3 *



* 4 *



* 5 *



* 6 *



* 7 *



* 8 *



* 9 *



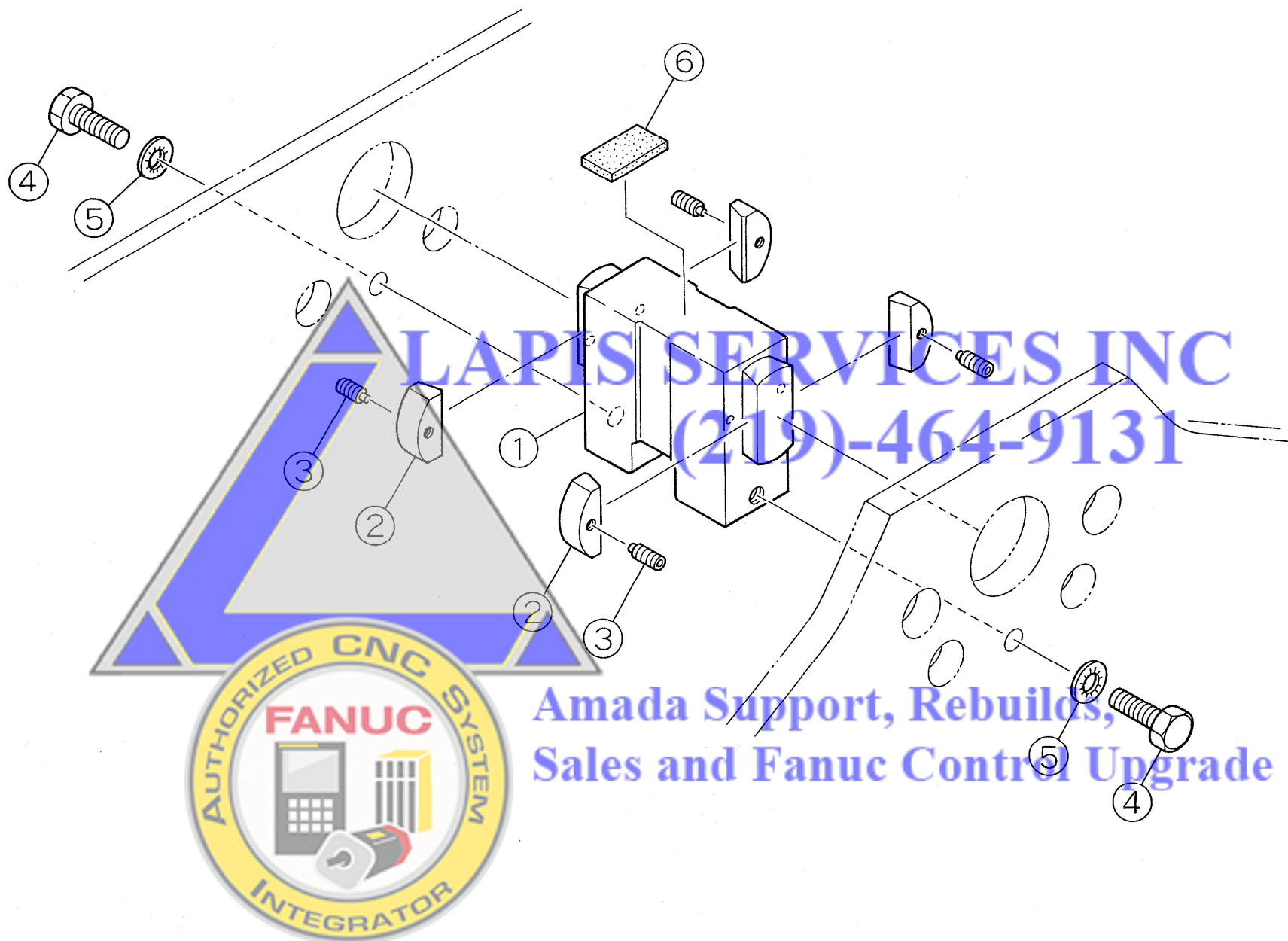
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Unit No. **04**
Support plate

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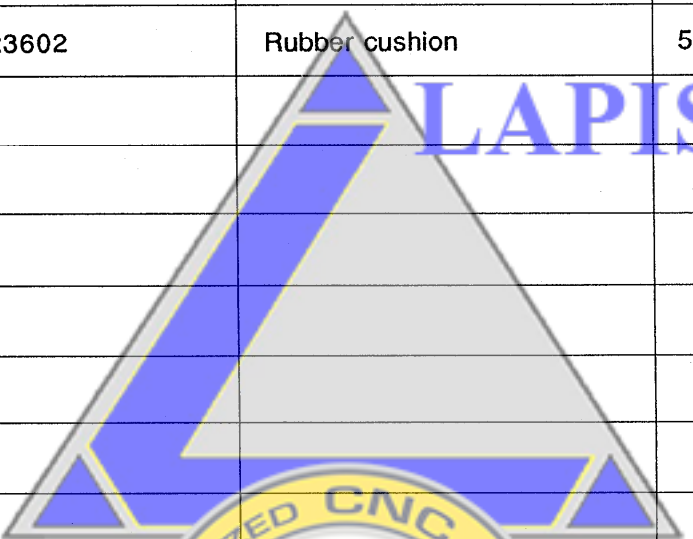
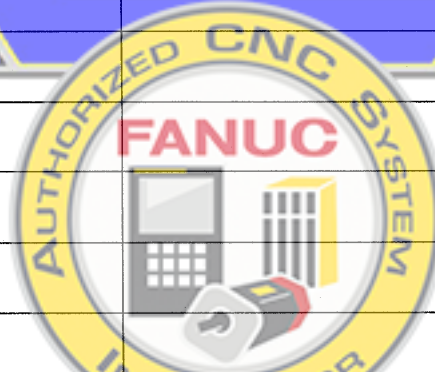
Unit No. 05
Upper post

From serial No. 00809086 and after.



Upper post

From serial No. 00809086 and after.

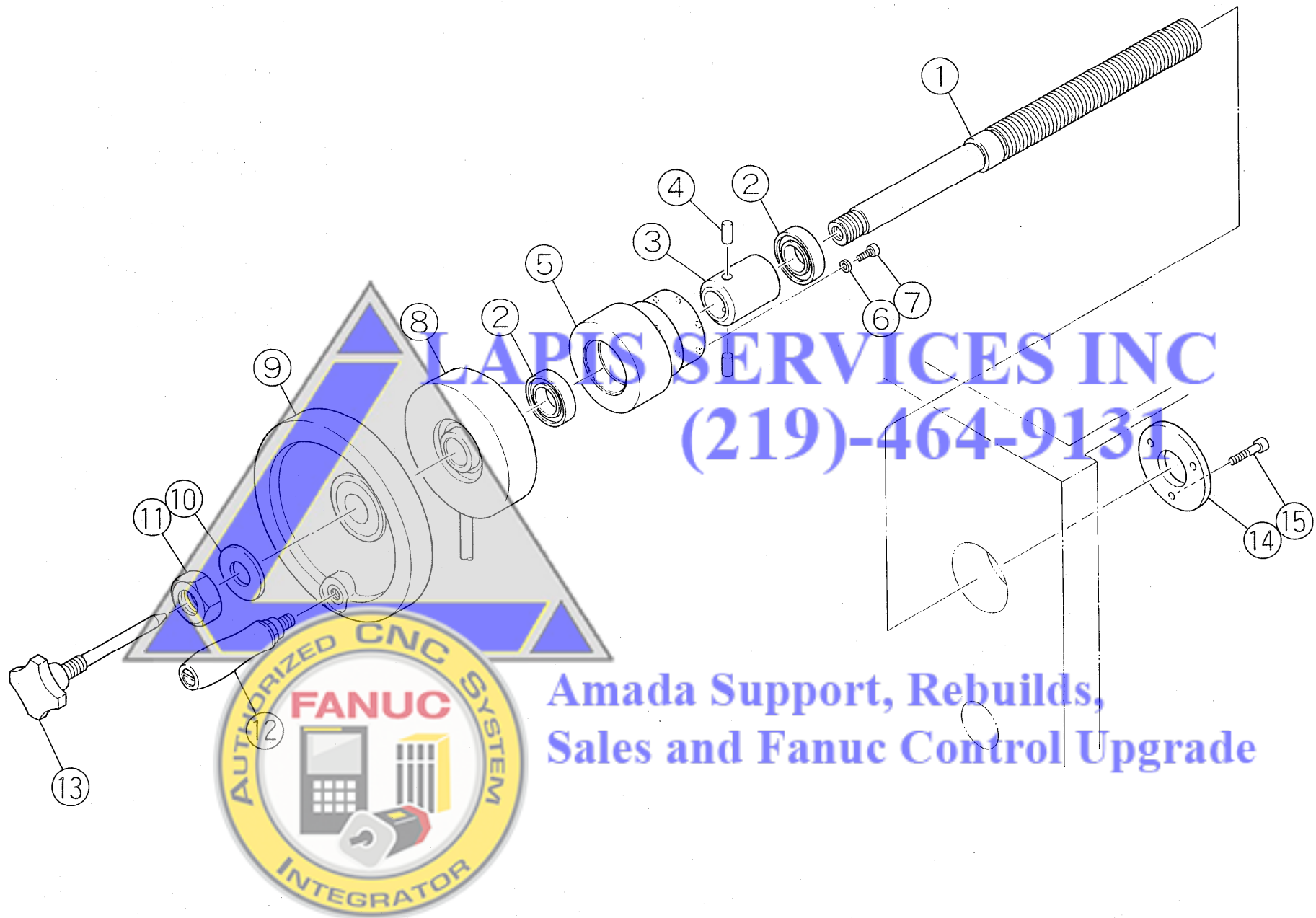
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36123505	Guide post	4134854		1		
2	36123521	Lock piece	51.46309.2		4		
3	36147517	Set screw		M10 x 25 dog end	4		
4	36147028	Bolt		M16 x 45	2		
5	36147634	Toothed lock washer		M16	2		
6	36123602	Rubber cushion	51.19035.0		1		
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Unit No. 06

Upper limit setting device (1)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

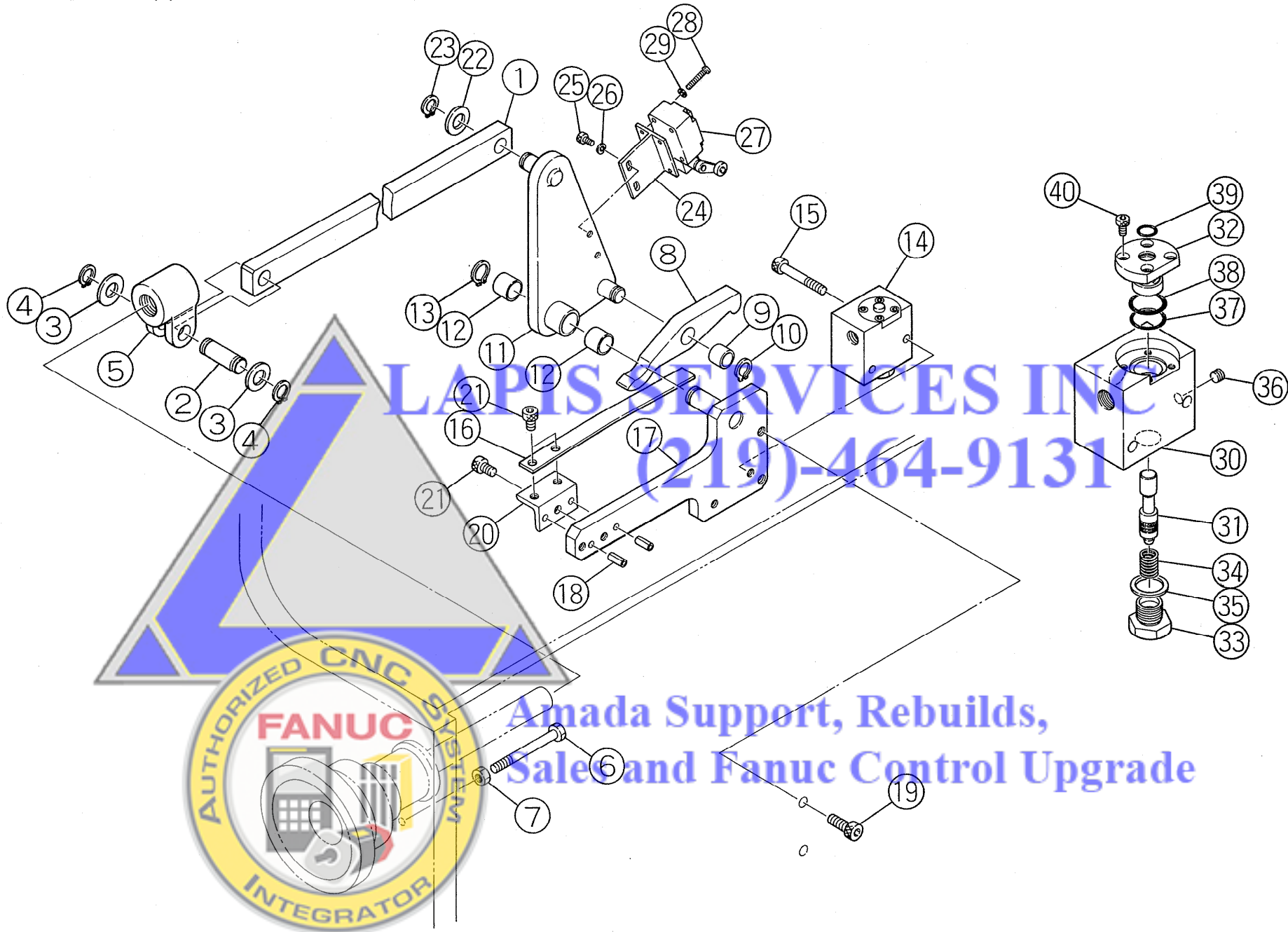
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36124625	Feed screw	4099871		1		
2	36125101 (58140306)	Ball bearing		#6005ZZ	2		
3	36124631	Collar	4099872		1		
4	36124701	Pin	4099873A		2		
5	36124707	Bearing case	4099874C		1		
6	36124733	Washer	4121313A		3		
7	36147101 (74302810)	Cap screw		M5 x 10	3		
8		Digital display unit					
	36124912	(Japan)	4099875	(Muto)	1		
	36124914	(EXP – inch)	7935073	(Muto)	1		
	36124913	(EXP – mm)	7935072	(Muto)	1		
9	36124907	Handwheel	563811B		1		
10	36147717	Washer		M22 type 2	1		
11	36147816	Nut		M22 type 3	1		
12	36124514 (36180116)	Lever	563813B		1		
13	36124507	Lock knob	383535A		1		
14	36124713	Retainer	4099877		1		



Unit No. **06**
Upper limit setting device (1)

From serial No. 00809086 and after.

[illegible]



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36124531	Connecting bar	4041556		1		
2	36124825	Shaft	51.1107.2A		1		
3	36147714	Washer		M20	2		
4	36147731 (10001102)	Snap ring		STW-20	2		
5	36124831 (36003738)	Carriage	51.18516.2		1		
6	36147020	Bolt		M10 x 110	1		
7	36147809 (36327621)	Nut		M10 type 2	1		
8	36124513	Lever	4040697A		1		
9	36125107 (37116401)	Oilless metal bushing		MB2020DU	1		
10	36147731 (10001102)	Snap ring		STW-20	1		
11	36124522	Lever ass'y	4040703A		1		
12	36125108	Oilless metal bushing		MB2425DU	2		
13	36147732 (10317509)	Snap ring		STW-24	1		
14	36124801	Upper limit valve ass'y	4125420C		1 set		
15	36147136 (74314417)	Cap screw		M10 x 70	2		
16	36124901	Spring plate	51.44050.0A		1		
17	36124612	Bracket	4091384		1		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36147913	Spring pin		φ8 x 22	2		
19	36147141 (44028616)	Cap screw		M12 x 30	3		
20	36124618	Angle	4091387A		1		
21	36147126	Cap screw		M10 x 16	3		
22	36147714	Washer		M20 type 1	1		
23	36147731 (10001102)	Snap ring		STW-20	1		
24	36124606	LS9 setting plate	4049835B		1		
25	36147103 (74302812)	Cap screw		M6 x 10	2		
26	36147608 (36323020)	Spring washer		M6 type-2	2		
27	36125124	Limit switch		1LS19-J (Yamatake-Haneywell)	1		
28	36147312 (10556928)	Pan head machine screw		M5 x 35	4		
29	36147606 (36329924)	Spring washer		M5 type-2	4		
30	36124807 (36325307)	Valve body	4122110B		1		
31	36124819	Spool	4125421		1		
32	36124813 (36325313)	Valve seat	4122112A		1		
33	36124549 (36325316)	Cap	4044546A		1		
34	36124601 (36325319)	Pressure spring	4044547A		1		



Upper limit setting device (2)

From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36125116 (36325323)	Seal washer		WF-22 (NOK)	1		
36	36138622 (58147621)	Plug		PT 1/8"	2		
37	36147420	O-ring		1BP25	1		
38	36147421 (36111006)	O-ring		1BP26	1		
39	36147402 (36325331)	O-ring		1AP14	1		
40	36147103 (74302812)	Cap screw		M6 x 10	4		

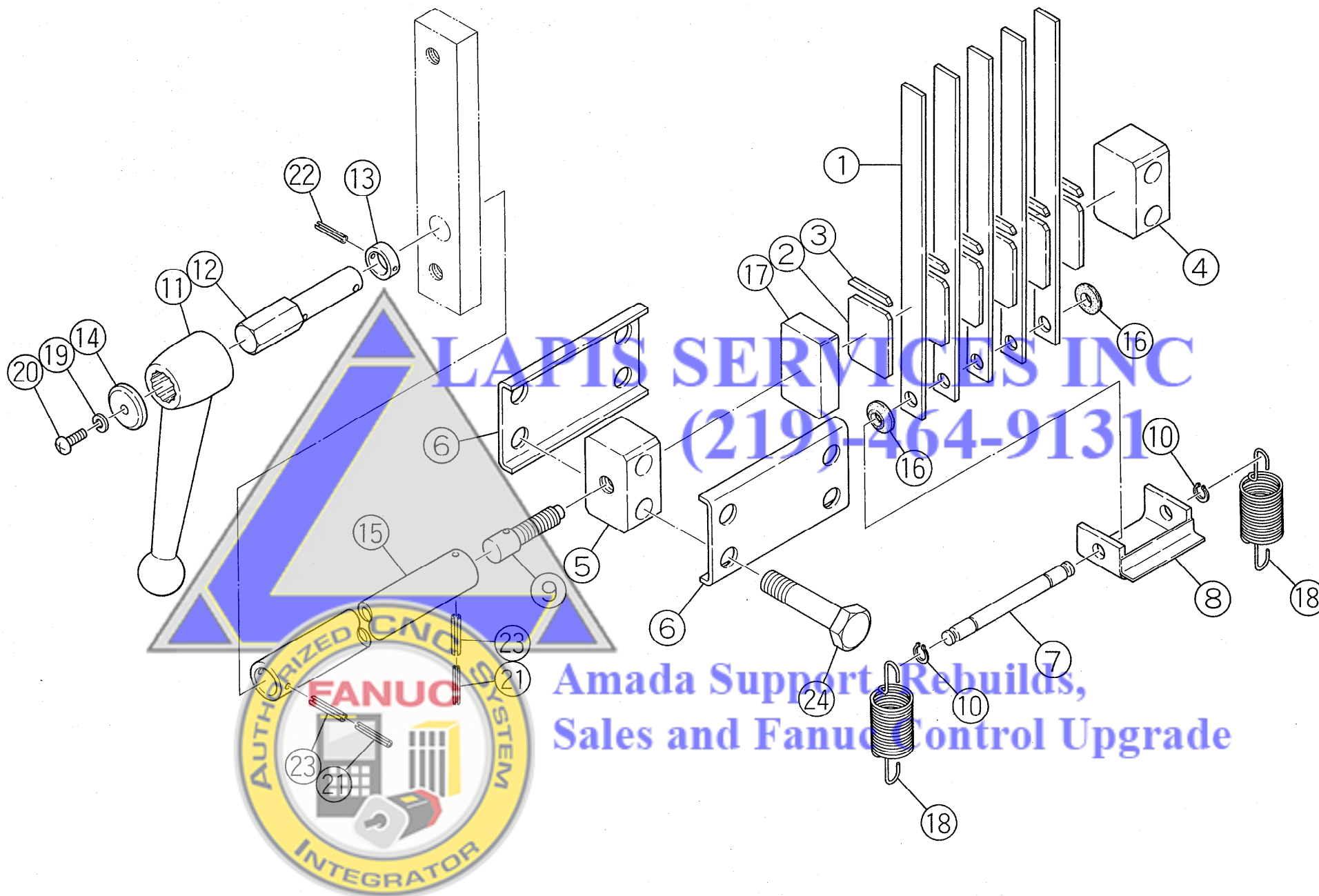
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Unit No. 08
Lower limit setting device

From serial No. 00809086 and after.



From serial No. 00809086 and after.

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	36125911 (36108917)	Clamp plate	386314		2		
7	36125602	Pin	51.11112.0A		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	383536		1		
12	36125624 (36109304)	Insert coupling	380396B		1		
13	36125629 (36109307)	Collar	380397A		1		
14	36126007	Washer	564563A		1		
15	36125703 (36109320)	Shaft	380841C		1		
16	36126001	Rubber washer	563032A		2		
17	36125803	Support block	51.15126.0A		1		



Unit No. **08**
Lower limit setting device

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Unit No. 09
Guide roller

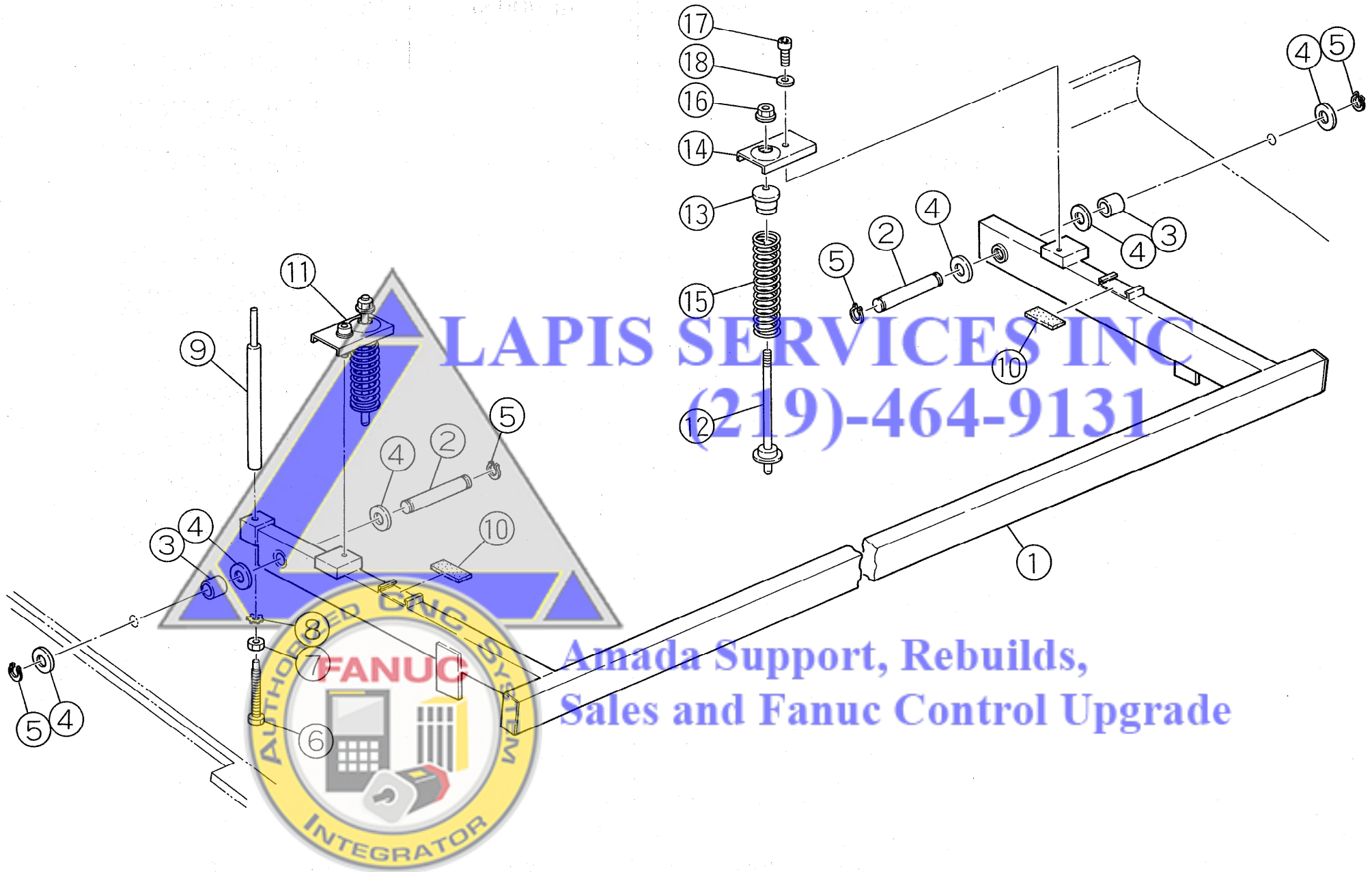
From serial No. 00809086 and after.



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Unit No. 10
Pedal

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36128003	Pedal	4049900B		1		
2	36128030	Shaft	4049901B		2		
3	36128109	Pipe		Φ27.2 x 3.4t x 27 L	2		
4	36147714	Washer		M20	6		
5	36147731 (10001102)	Snap ring		STW-20	4		
6	36128201	Support screw	4040912		1		
7	36147809 (36327621)	Nut		M10 type-2	1		
8	36147631	Toothed lock washer		M10	1		
9	36128213	Push rod	4049898		1		
10	36128225	Rubber cushion	4091466		2		
11	36128118 (36112103)	Pedal spring ass'y	4049885C		2 set		
12	36128023	Shaft (Include spring support)	4049886B 4161297A		2		
13	36128183	Spring support	4049888C		2		
14	36128208	Plate	4161296A		2		
15	36128219	Spring	4091690		2		
16	36147821	Nut		M12	2		
17	36147115	Cap screw		M8 x 16	2		



Unit No. 10
Pedal

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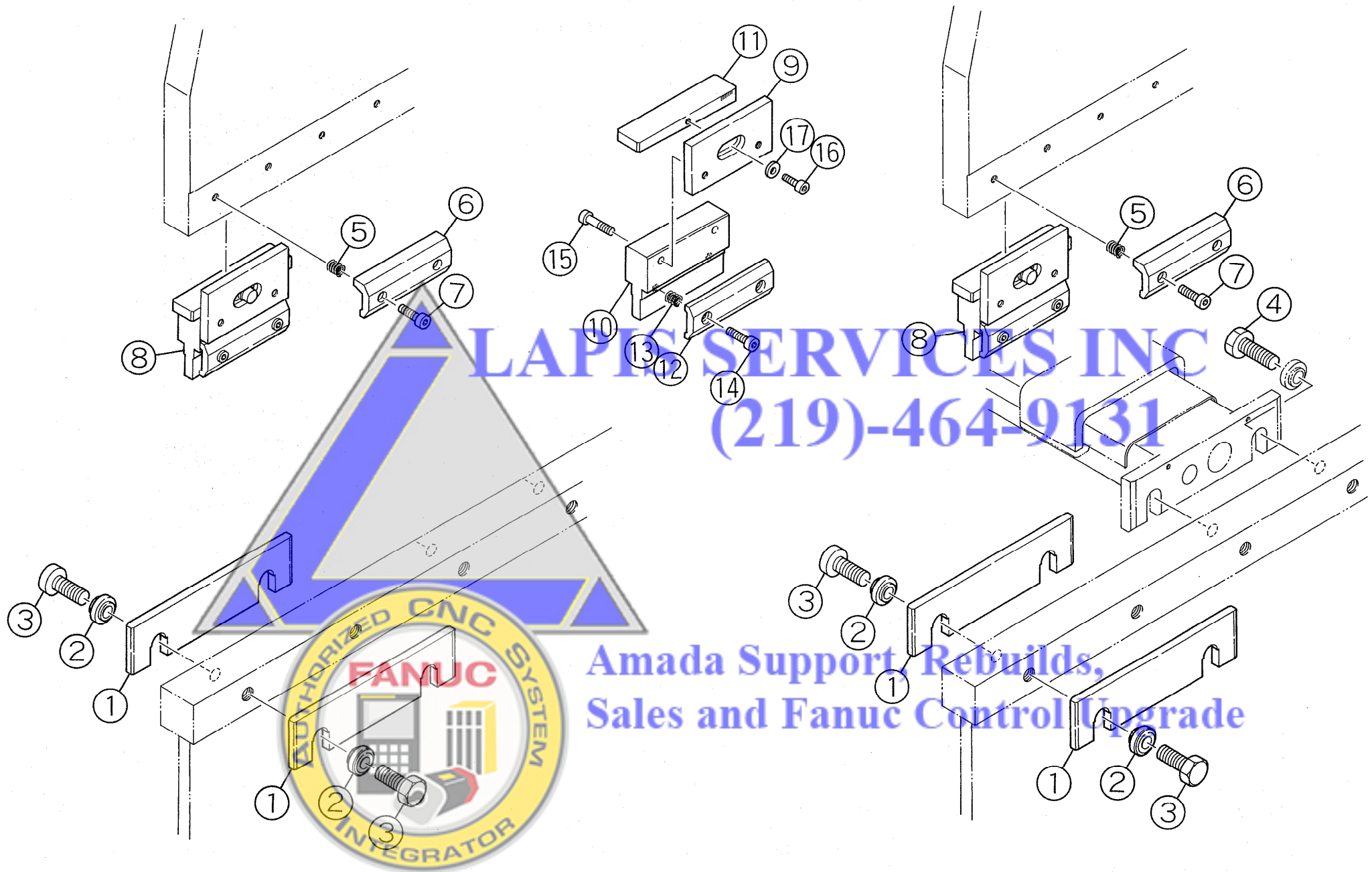
Unit No. 11
Pedal lock device

From serial No. 00809086 and after.



Unit No. 12
Tool holder

From serial No. 00809086 and after.



From serial No. 00809086 and after.

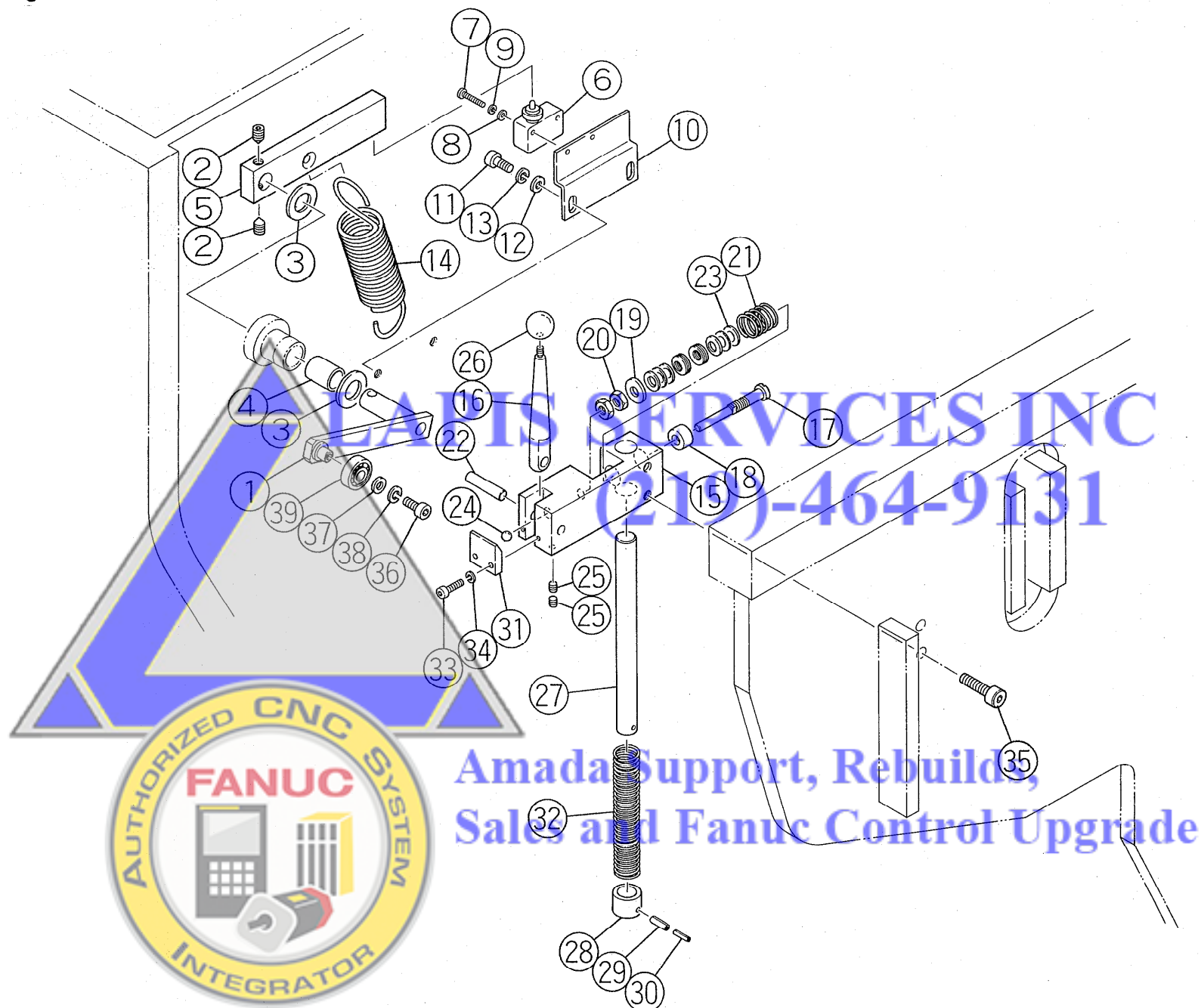
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36128901 (36324101)	Clamp plate	51.17029.0B	STD ... B/G ...	12 10		
2	36128909	Washer	7937112		24		
3	36147030 (36106815)	Bolt		M20 x 50 STD ... B/G ...	24 20		
4	36110736	Bolt		M20 x 55	4		B/G
5	36128927 (36113131)	Spring	51.44030.0		24		
6	36128914	Clamp plate	4161303A		12		
7	36147130 (74304918)	Cap screw		M10 x 35	24		
8	36128701 (36113108)	Distance piece ass'y	4099949		12 set		
9	36128709	Distance piece	51.57074.2D		12		
10	36128715	Push lock plate	4098393		12		
11	36128721	Adjusting piece	4099950		12		
12	36128726 (36324107)	Clamp plate	51.17028.1		12		
13	36128731 (36113131)	Spring	51.44030.2		24		
14	36147130 (74304918)	Cap screw		M10 x 35	24		
15	36147131 (74304913)	Cap screw		M10 x 40	24		
16	36128737	Cap screw	560435B		12		
17	36128743	Washer	560424A		12		



Unit No. 13

Speed change setting device

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36130018	Arm	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		
16	36129910	Lever	4041004B		1		
17	36130234	Bolt	4127754A		1		



From serial No. 00809086 and after.

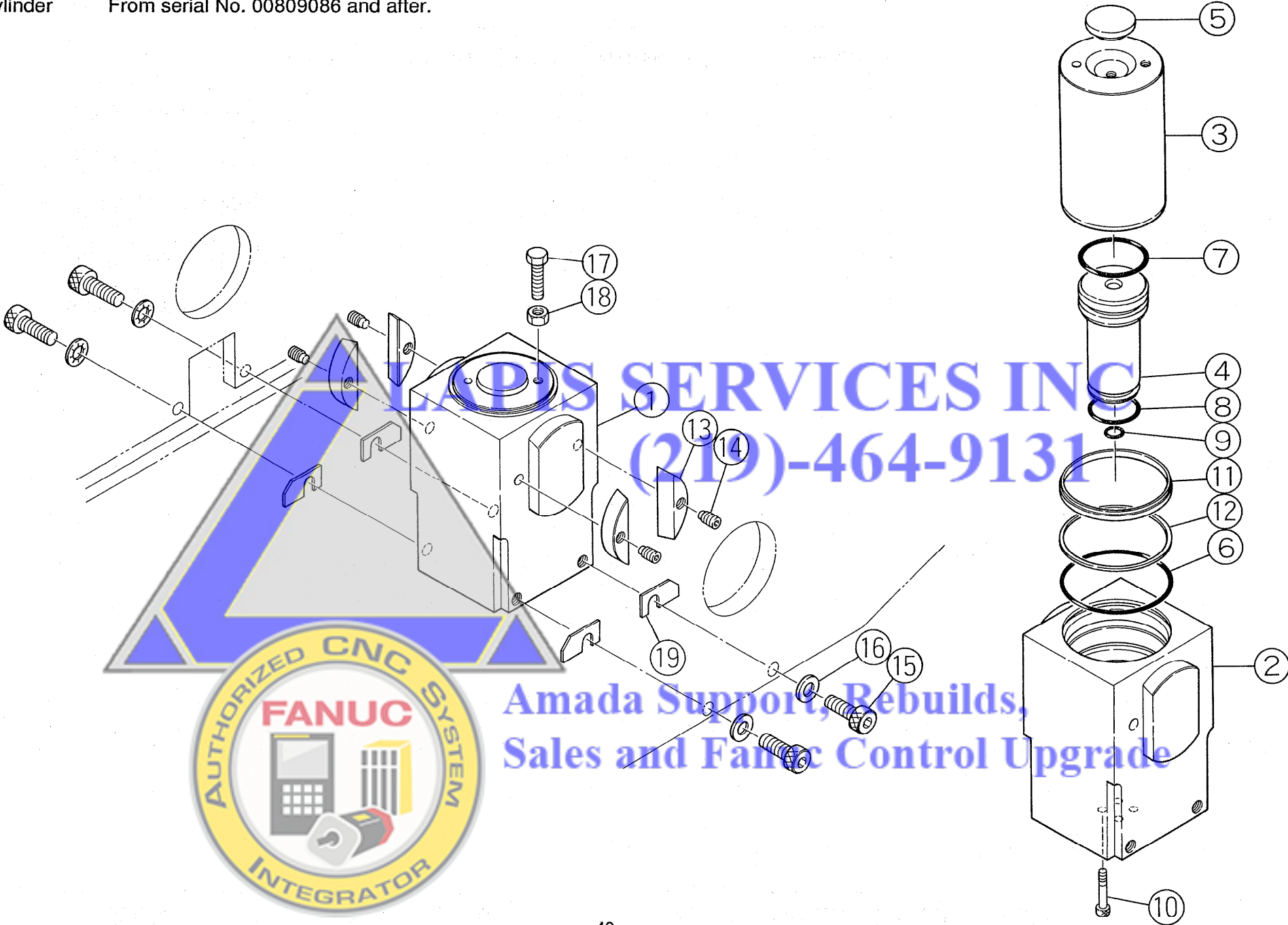
Unit No. **13**
Speed change setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
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 (Imao)	1		
27	36130133	Rod	4124522A		1		
28	36130201	Spring support	4124523B		1		
29	36147905 (10564018)	Spring pin		Φ5 x 20	1		
30	36147902 (54117205)	Spring pin		Φ3 x 20	1		
31	36130120	Stopper	4127684		1		
32	36130206	Pressure spring	4124529		1		
33	36147108 (74302815)	Cap screw		M6 x 20	2		
34	36147608 (36323020)	Spring washer		M6 type-2	2		



Unit No. 14
Main cylinder

From serial No. 00809086 and after.



From serial No. 00809086 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		1BP 120	1		
7	36147408	O-ring		1AP 70	1		
8	36147427	O-ring		1BP 50A	1		
9	36147417	O-ring		1BP 18	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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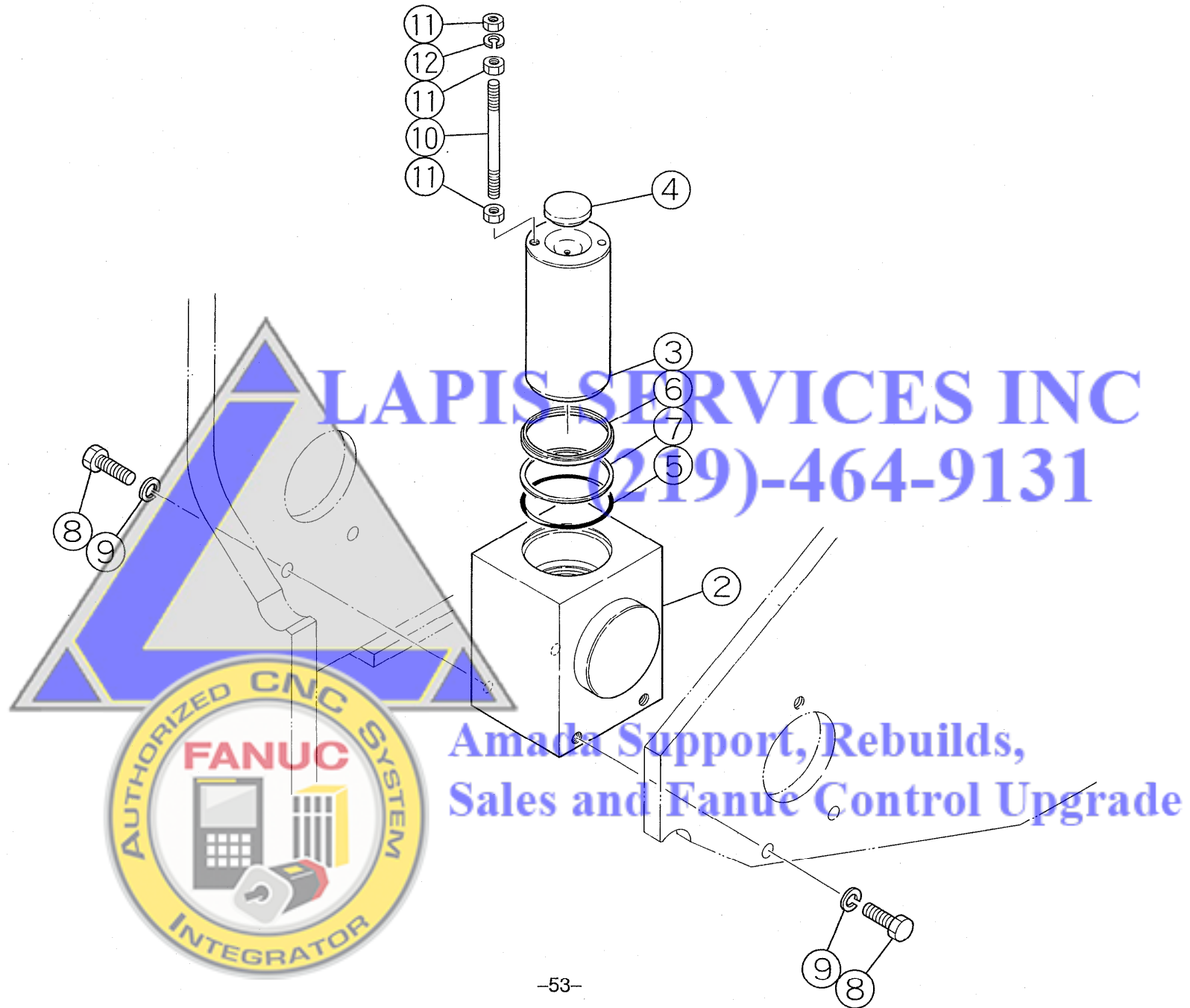
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Unit No. 14
Main cylinder

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Unit No. 15
Sub cylinder

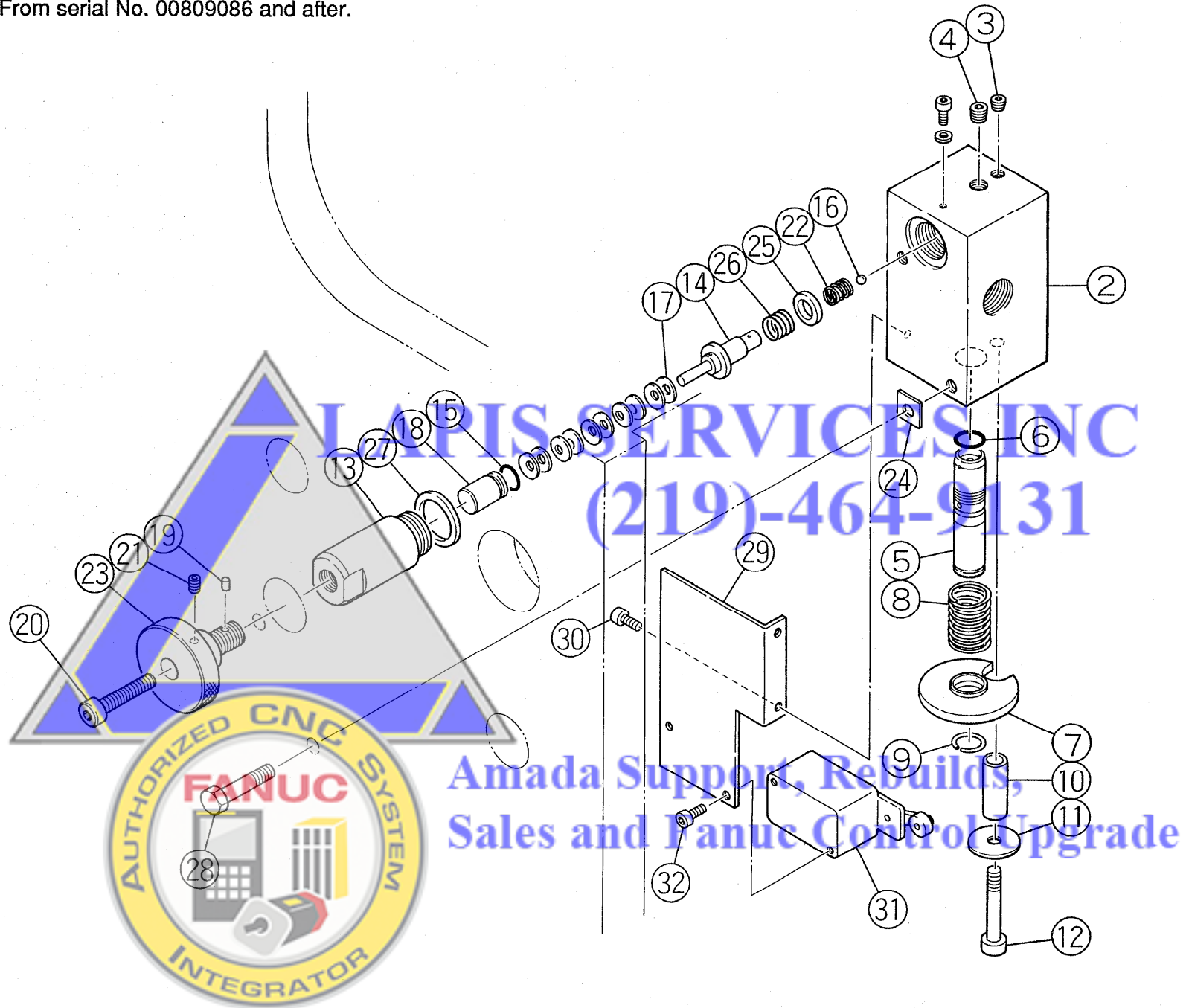
From serial No. 00809086 and after.



From serial No. 00809086 and after.

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		





From serial No. 00809086 and after.

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		1AP 16	1		
16	36133127	Steel ball		Φ7	1		
17	36133117	Cone disk spring		Φ18 x Φ6.5 x t1	10		



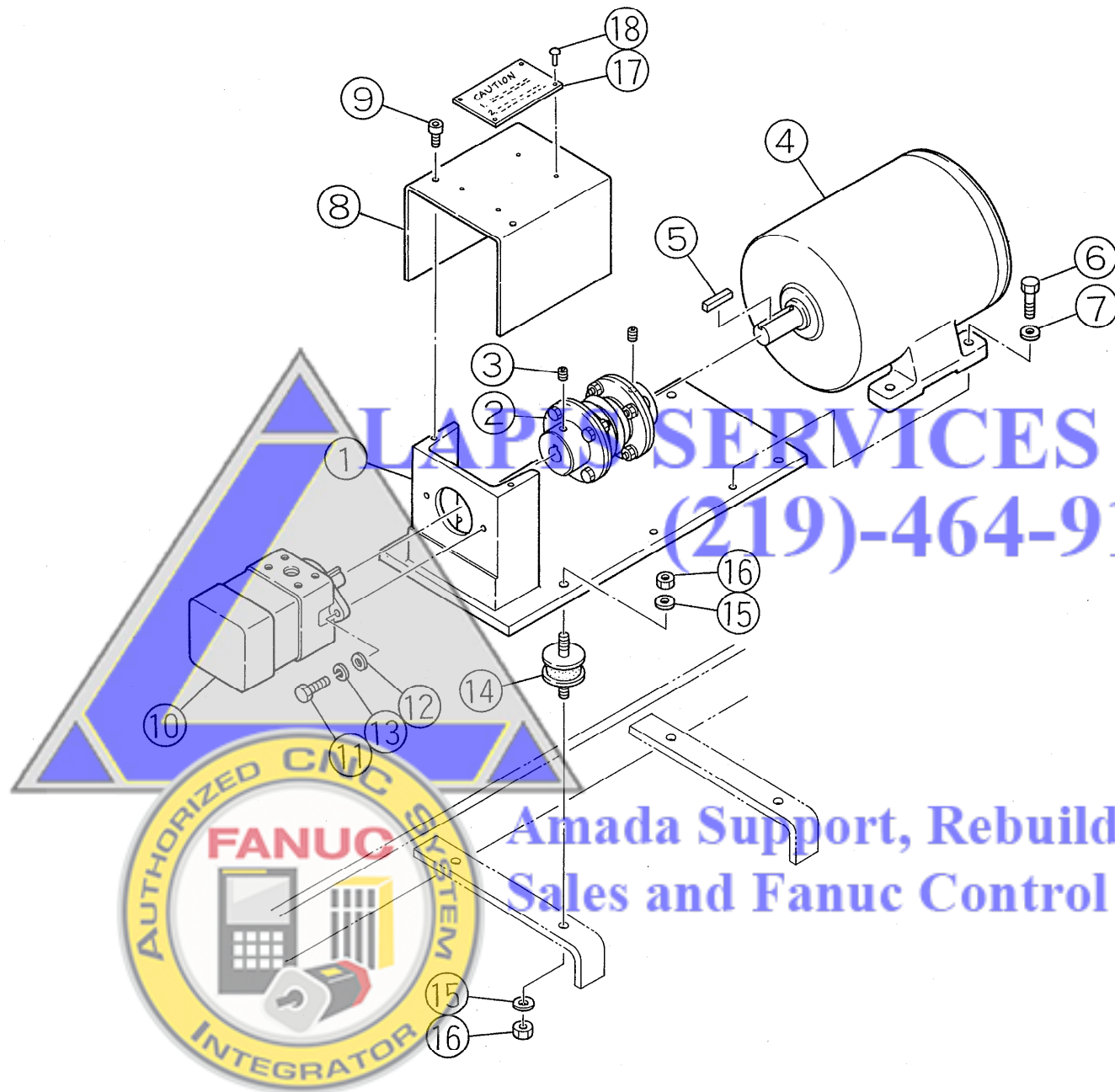
From serial No. 00809086 and after.

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	36132812	Spring	4048861		1		
27	36133107 (36109731)	Affixed seal		KP-C-06 (lhara)	1		
28	36147016	Bolt		M10 x 50	2		
29	36132824	L.S. bracket	4095091A		1		
30	36147103 (74302812)	Cap screw		M6 x 10	2		
31	36133101	Limit switch		1LS19-J (Yamatake-Haneywell)	1		
32	36147103 (74302812)	Cap screw		M6 x 10	2		



Unit No. 17
Pump unit

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Motor base					
	36136509	(Japan)	4161133B		1		
	36136502	(EXP)	4092804		1		
2		Coupling					
	36136414	(Japan)	7937124A	(NTN)	1		
	36136406	(EXP)	7937043	(NTN)	1		
3	36137126 (74303118)	Set screw		M8 x 1 x 10 (NTN)	2		Japan
4		Motor					
	36136839	(Japan)		MRA-6133A 5.5 kW 4P (Fuji)	1		
	36136828	(EXP)		MLA6133A 5.5 kW 4P 230-50/60, 400-50, 460-60 (Fuji)	1		
5	36137117	Key		8 x 10 x 65 type-2	1		
6	36147018 (36327604)	Bolt		M10 x 35	4		
7		Washer					
	36147710 (74300512)	(Japan)		M10	4		
	36147611 (10001520)	(EXP - spring washer)		M10	4		
8		Cover					
	36136436	(Japan)	4161135B		1		



From serial No. 00809086 and after.

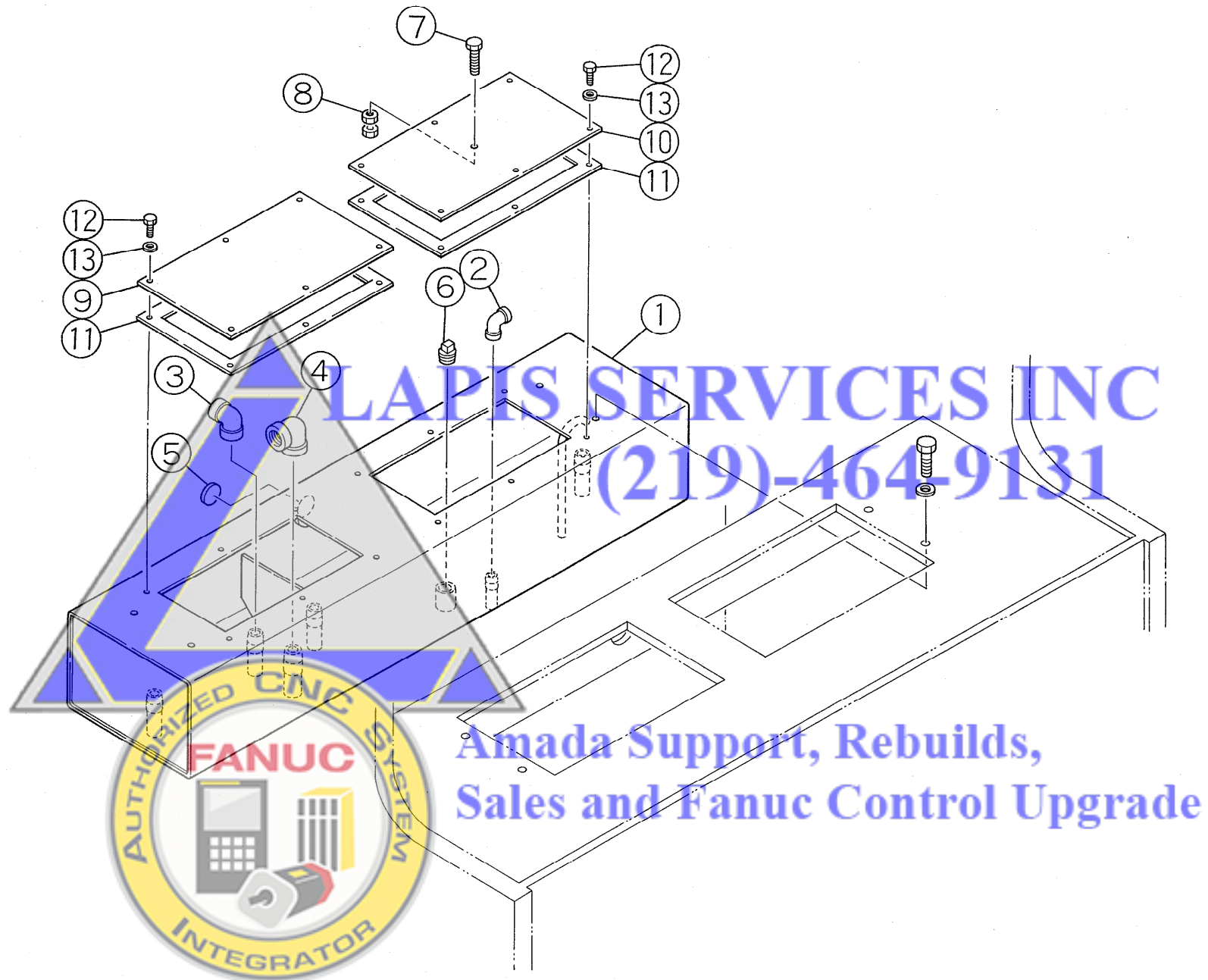
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36136432	(EXP)	4092860A		1		
9	36147103 (74302812)	Cap screw		M6 x 10	2		
10		Pump					
	36136812	(Japan)		QT23-8-F-S1112-A31 with key (Sumitomo)	1		
	36136803	(EXP)		IPH-2B-8-3235A with key (Nachi)	1		
11		Bolt					
	36327601	(Japan)		M8 x 25	2		
	36147011 (10001510)	(EXP)		M10 x 25	2		
12		Washer					
	36147707 (74300511)	(Japan)		M8	2		
	36147710 (74300512)	(EXP)		M10	2		
13	36147609 (10001521)	Spring washer		M8	2		Japan
14	36137001	Rubber cushion		KA-50 (Kurashiki)	4		
15	36147710 (74300512)	Washer		M10	8		
16	36147808 (10001516)	Nut		M10 type-1	8		
17	36136607 (36327521)	Legend plate (caution)	4095623		1		EXP
18	36148007	Drive screw rivet		Φ1.8 x 4.8	4		EXP

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Unit No. 18
Hydraulic tank

From serial No. 00809086 and after.



From serial No. 00809086 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 (36323423)	Bolt		M6 x 10	12		
13	36147706	Washer		M6 polish	12		

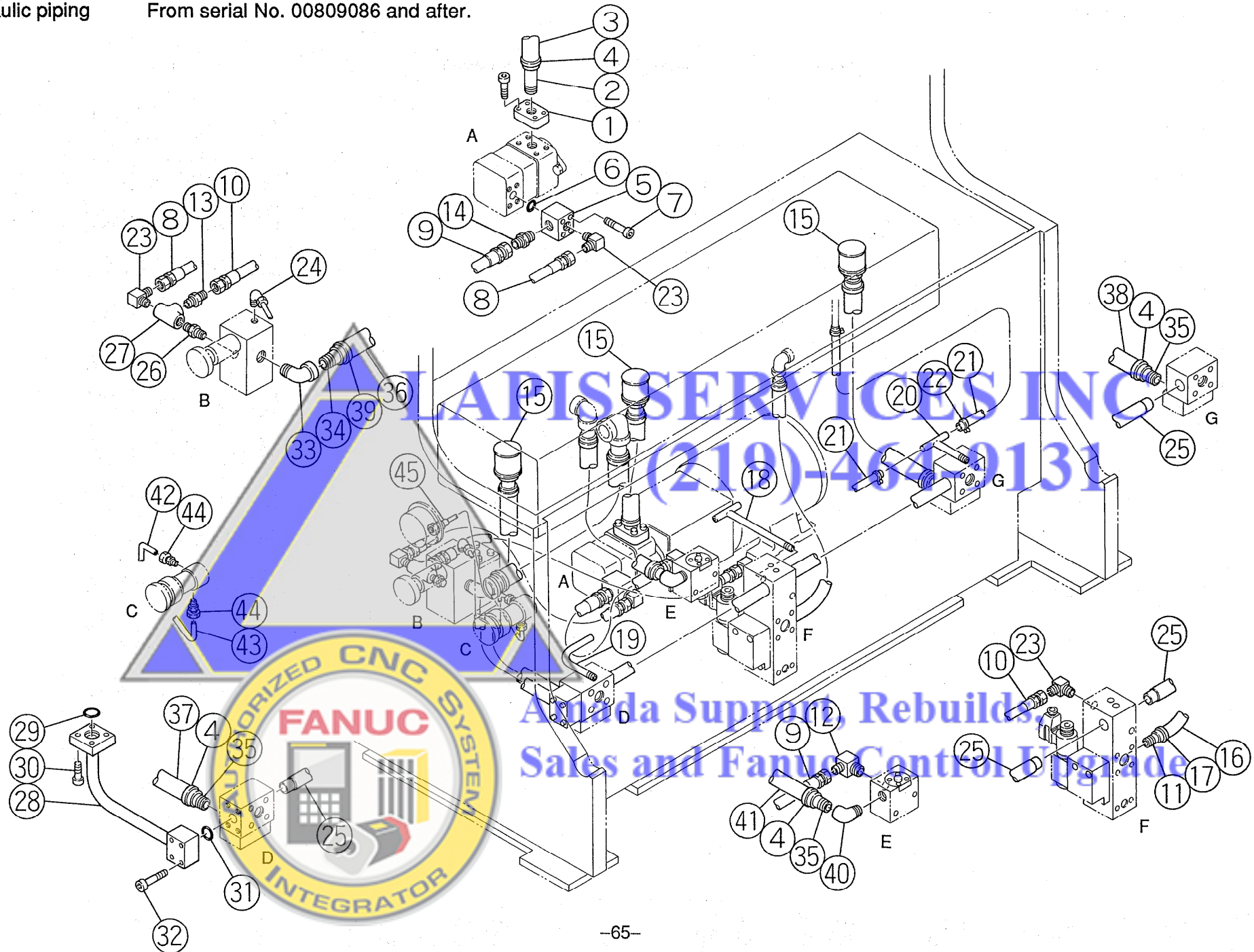


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Unit No. 19
Hydraulic piping

From serial No. 00809086 and after.



From serial No. 00809086 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	MID oil hose		φ25 x 300 L (Yokohama)	1		
4	36138523	Hose band		Jubilee 2A	8		
5	36137928	Flange	4040808B		1		
6	36147418 (38121649)	O-ring		1BP22	1		
7	36147122 (74304910)	Cap screw		M8 x 55	4		
8	36138312	Rubber hose		N708EK08NPF 1050L (BS)	1		
9	36138320	Rubber hose		XT-5-3/4" (CAT) EH12NPF900L (BS)	1		
10	36138313	Rubber hose		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		
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		Jubilee 1A	2		



From serial No. 00809086 and after.

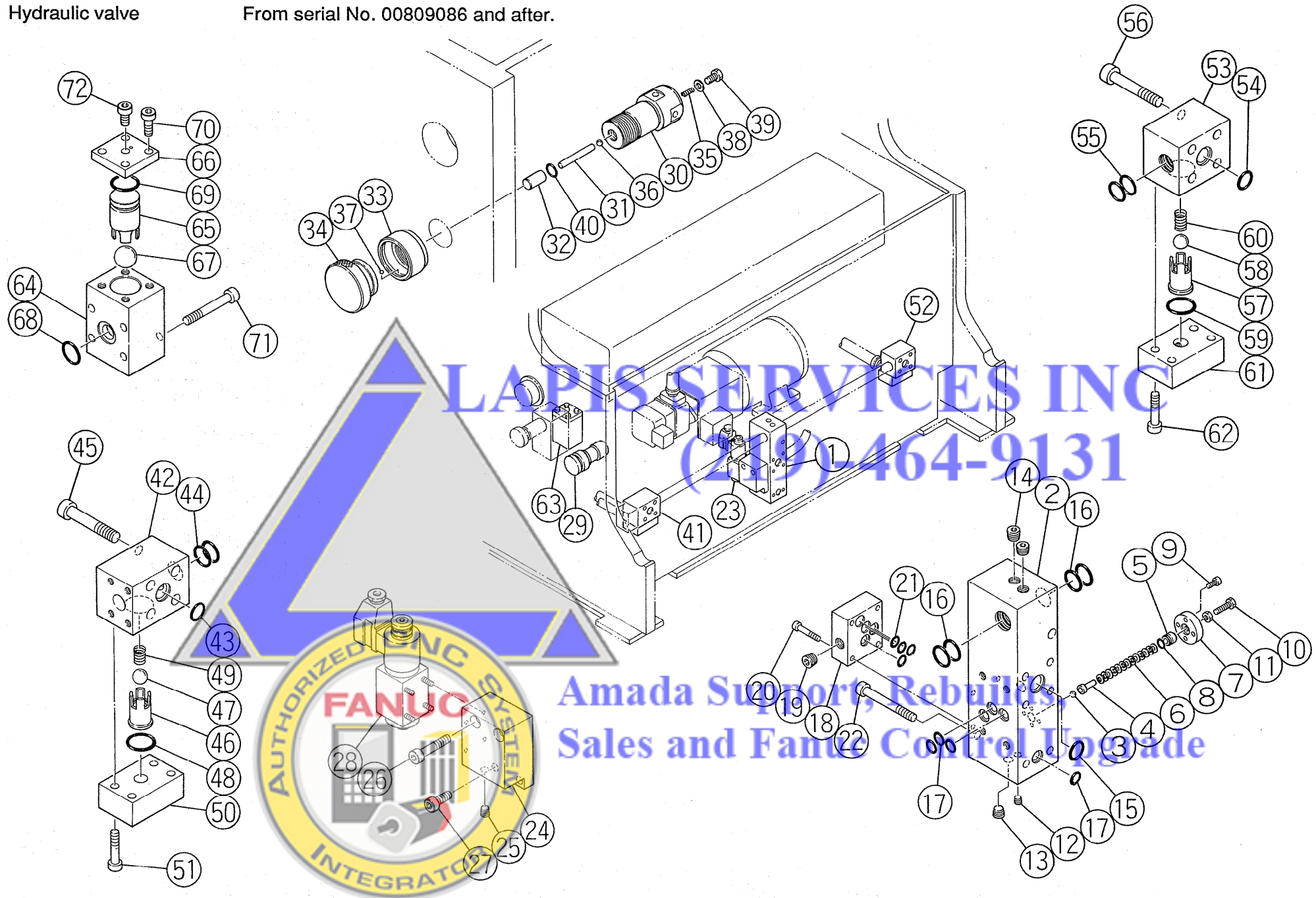
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36138002	Tee	4095484A		1		
19	36138125	Drain pipe	50.54570.0		1		
20	36138001	Tee	4040821		1		
21	36138503	Vinyl tube		φ10 x φ13 x 2500 L	1		
22	36138719	Wire clamp		φ13	6		
23	36138832	90° elbow		3021F-08	3		
24	36138931	Elbow nipple		KLN4-PT 1/8"-S (Ihara)	1		
25	36137801	Pipe	4041588		2		
26	36139002	Nipple		NS-PT 1/2" (NTN)	1		
27	36138005	Tee		TEF-PT 1/2" (NTN)	1		
28	36137705	Pipe	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		

From serial No. 00809086 and after.

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Unit No. 20
Hydraulic valve

From serial No. 00809086 and after.



From serial No. 00809086 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 (38121649)	O-ring		1BP22	1		
16	36147421 (36111006)	O-ring		1BP26	4		
17	36147415	O-ring		1BP14	4		



From serial No. 00809086 and after.

Unit No. 20
Hydraulic valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36138214	Cap	4095483		1		
19	36138623 (44552306)	Plug		PT 3/8"	1		
20	36147110 (74304905)	Cap screw		M6 x 35	4		
21	36147414 (38123327)	O-ring		1BP12	4		
22	36147138	Cap screw		M10 x 85	6		
23	36133603	Sequence valve ass'y	4123994B		1 set		
24	36133625	Block	4123995		1		
25	36134007 (58147621)	Plug		PT 1/8"	1		
26	36147133 (74314415)	Cap screw		M10 x 50	2		
27	36147128 (38124012)	Cap screw		M10 x 25	2		
28	36133701	Solenoid valve	7938038		1		
29	36134403	Cut-off valve ass'y	4091376		1 set		
30	36134420	Valve body	4091377		1		
31	36134503	Cut-off valve	50.48029.0		1		
32	36134517	Spool	50.42515.1		1		
33	36134522	Lock nut	50.28059.1A		1		
34	36134527	Adjusting screw	50.57514.1		1		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36134532 (36325708)	Pressure spring	50.44046.3		1		
36	36133127	Steel ball		φ7	1		
37	36134707	Steel ball		φ3.175	1		
38	36134701	Seal washer		W8	1		
39	36147005 (36325722)	Bolt		M8 x 10	1		
40	36147416	O-ring		1BP-15	1		
41	36135202	Check valve (I) ass'y	4045010B		1 set		
42	36135230	Valve body	4045011B		1		
43	36147418 (38121649)	O-ring		1BP22	1		
44	36147421 (36111006)	O-ring		1BP26	2		
45	36147146	Cap screw		M14 x 80	4		
46	36135320	Ball guide	4045012C		1		
47	36135703	Steel ball		φ19	1		
48	36147424 (38123330)	O-ring		1BP32	1		
49	36135402	Spring	4047294		1		
50	36135415	Valve cap	4045013		1		
51	36147132 (36113117)	Cap screw		M10 x 45	4		

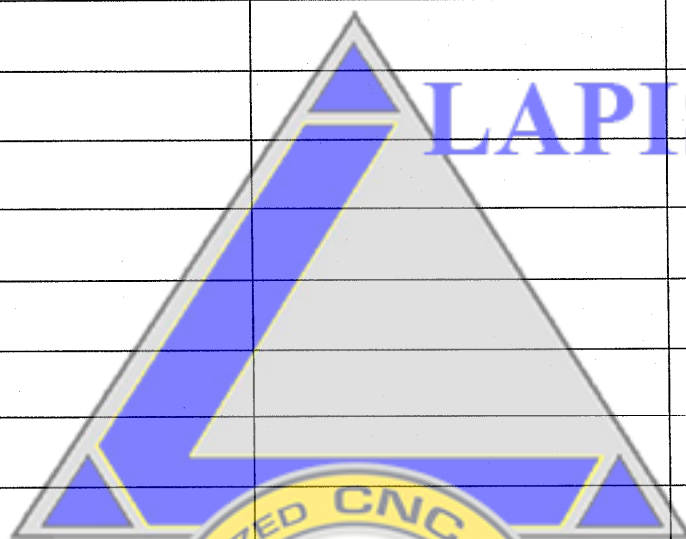


From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
52	36135204	Check valve (II) ass'y	4045014B		1 set		
53	36135231	Valve body	4045015B		1		
54	36147418 (38121649)	O-ring		1BP22	1		
55	36147421 (36111006)	O-ring		1BP26	2		
56	36147146	Cap screw		M14 x 80	4		
57	36135320	Ball guide	4045012C		1		
58	36135703	Steel ball		Φ19	1		
59	36147424	O-ring		1BP32	1		
60	36135402	Spring	4047294		1		
61	36135415	Valve cap	4045013		1		
62	36147132 (36113117)	Cap screw		M10 x 45	4		
63	36135206	Check valve (III) ass'y	4046173A		1 set		
64	36135229	Valve body	4043995		1		
65	36135319	Ball guide	4043996		1		
66	36135414	Valve cap	4043997		1		
67	36135705	Steel ball		Φ28	1		
68	36147421 (36111006)	O-ring		1BP26	1		



From serial No. 00809086 and after.

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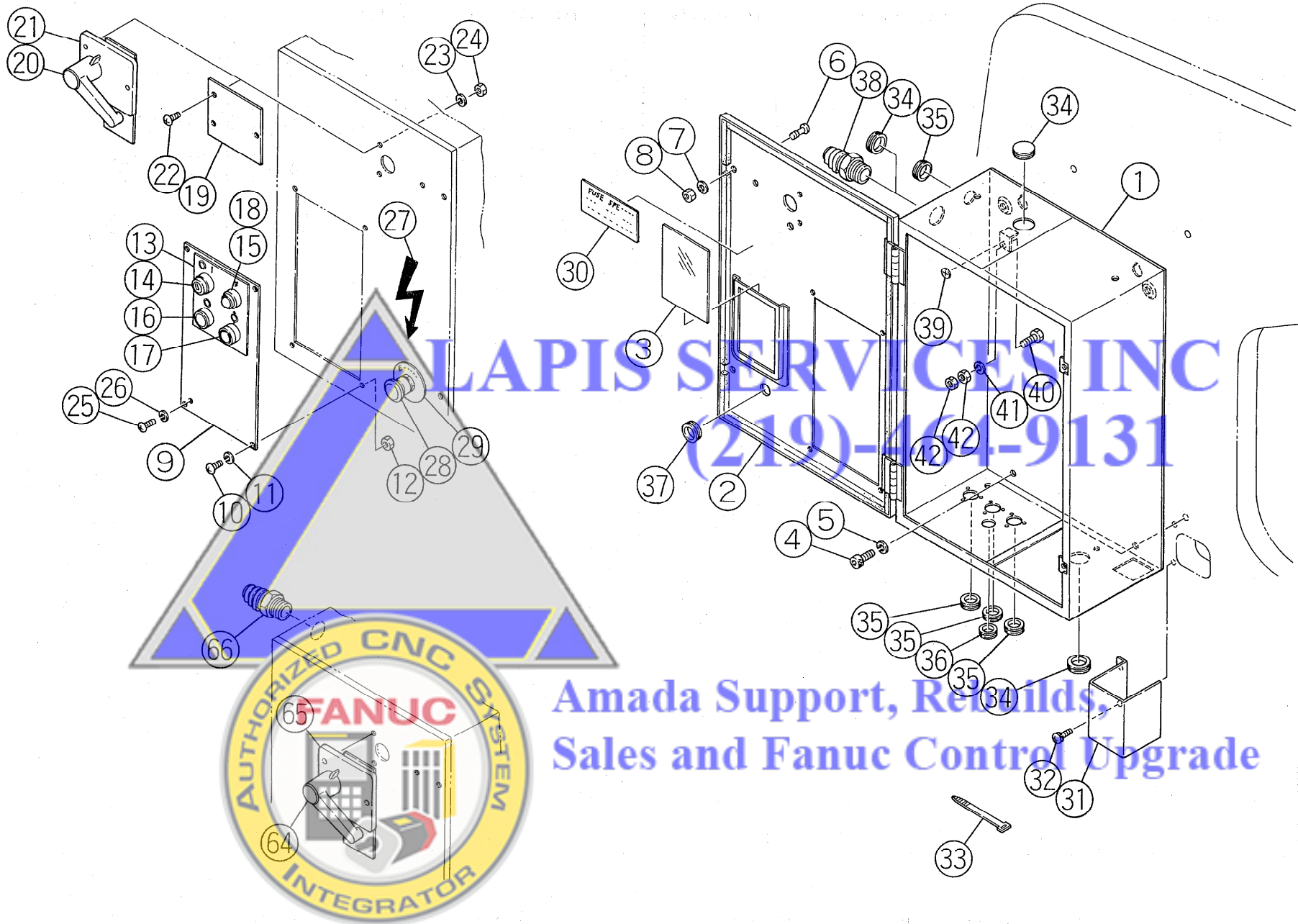
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Unit No. 21
Electric (1)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36140303	Electrical box	4123960A		1		
2	36140418	Rubber packing		10 x 10 x 1800 L	1		
3	36140422	Acrylic resin plate		105 x 145 x 10.5	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	36140214	Plate	4124479B		1		
10		Pan head machine screw					
	36147308 (58250511)	(Japan)		M5 x 8	4		
	36177211	(EXP)		M5 x 8 sems screw	4		
11	36147604 (44027927)	Spring washer		M5	4		Japan
12	36147802	Nut		M5 type-2	4		
13	36140201	Control panel	4095508A		1		
14	36140801	Select switch SS1		AH22-J2A11A black (Fuji)	1		
15	36140807	Pilot light PL1		AH22-ZMWH black (Fuji)	1		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36140729	Push button switch PB1		AH22-FR01 black (Fuji)	1		
17	36140730	Push button switch PB2		AH22-GL1G11H green (Fuji)	1		
18	36140906	Noise filter		Z10L221 (Ishizuka)	1		
19	36140333	Plate	4125111		1		Japan
20	36141129	Breaker lever		BU-GGD	1		EXP
21	36141124	Retainer		H-1	1		EXP
22		Pan head machine screw					
	36147310 (74305017)	(Japan)		M5 x 10	3		
	36177211	(EXP)		M5 x 8 sems screw	3		
23	36147604 (44027927)	Spring washer		M5	3		Japan
24	36147802	Nut		M5 type-2	3		Japan
25	36147308 (58250511)	Pan head machine screw (ground)		M5 x 8	1		
26	36147604 (44027927)	Spring washer (ground)		M5	1		
27	36140024	Sticker (electric)	389793		1		
28	36140731	Push button switch PB3		AH22-Q-2R02 black	1		EXP
29	36140027	Sticker		AHX-719-E	1		EXP
30	36140025	Sticker (fuse)	4134098B		1		EXP



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
31	36140109	Cover	4091392C		1		
32	36177211	Pan head machine screw		M5 x 8 sems screw	2		
33	36141114 (74520109)	Band		CV-100	1		Japan
34	36141107	Grommet		SG-34A (Takigen) Japan ... EXP ...	3 2		
35	36141105	Grommet		SG-26A (Takigen)	4		
36	36141104	Grommet		SG-22A (Takigen)	1		
37	36141108 (36329832)	Grommet		OB-31 (Izumi)	1		Japan
38	36140931	Connector		OA-U2	1		EXP
39	36140026	Sticker (ground)		AS-K	1		
40	36147004 (36323015)	Bolt		M6 x 20	1		
41	36147608 (36323020)	Spring washer		M6	1		
42	36147804 (36322524)	Nut		M6 type-2	2		
43	36140001	Blind cover	383823A		2		
44	36145532	Saddle		CH-13 (Daiwa)	2		Japan
45	36147310 (74305017)	Pan head machine screw		M5 x 10	1		Japan
46	36141059	Cable (for motor)		VCT 5.5 x 4 L=2.6	1		Japan
47	36141056	Cable		VCT 2 x 2 L=2.5	1		Japan



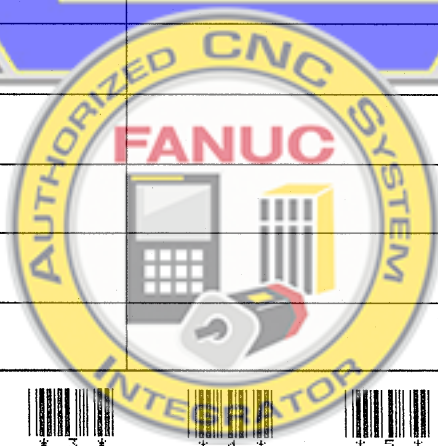
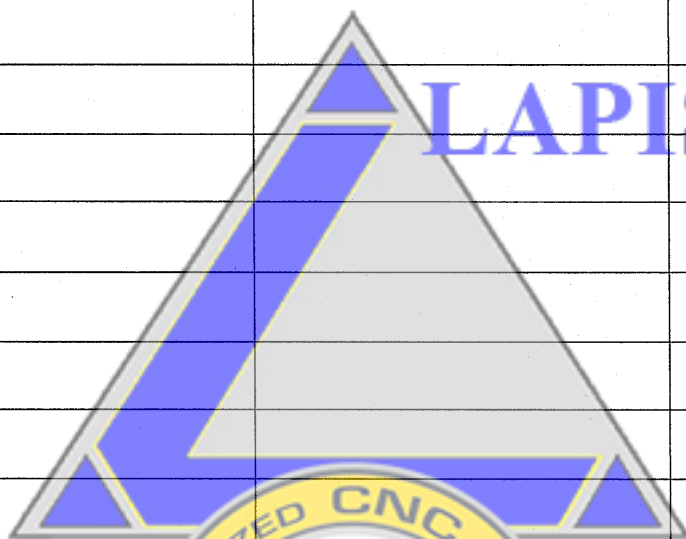
From serial No. 00809086 and after.

Unit No. 21
Electric (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
48	36141012	Cable (for LS)		VCT1.25 mm ² x 3c 600V L=5.0	1		EXP
49	36141006	Cable		IV5.5 mm ² 600V black L=2.0	1		EXP
50	36141005	Cable		IV5.5 mm ² 600V yellow/green L=2.0	1		EXP
51	36141046	Cable		IV3.5 mm ² 600V black L=12.0	1		EXP
52	36141043	Cable		IV3.5 mm ² 600V yellow/green L=3.0	1		EXP
53	36141010	Cable		KIV 1.25 mm ² 600V red	1		EXP
54	36141011	Cable		KIV1.25 mm ² 600V yellow/green	1		EXP
55	36141014	Cable		IV 5.5 mm ² 600V L=6.0	1		Japan
56	36141028	Flexible tube (for motor)		PF-19 L=2.5	1		EXP
57	36004615	Code lock		NC-1	1		Japan
58	36141115 (74308127)	Code lock		NC-2	1		Japan
59	36140929	Connector		CSG-19	2		EXP
60	36140942	Connector collar		CC-19	2		EXP
61	36141220	Lug terminal		5.5 mm ²	1 set		EXP
62	36141219	Lug terminal		3.5 mm ²	1 set		EXP
63	36141218	Lug terminal		2.0 mm ²	1 set		Japan
64	36141217	Lug terminal		1.25 mm ²	1 set		EXP



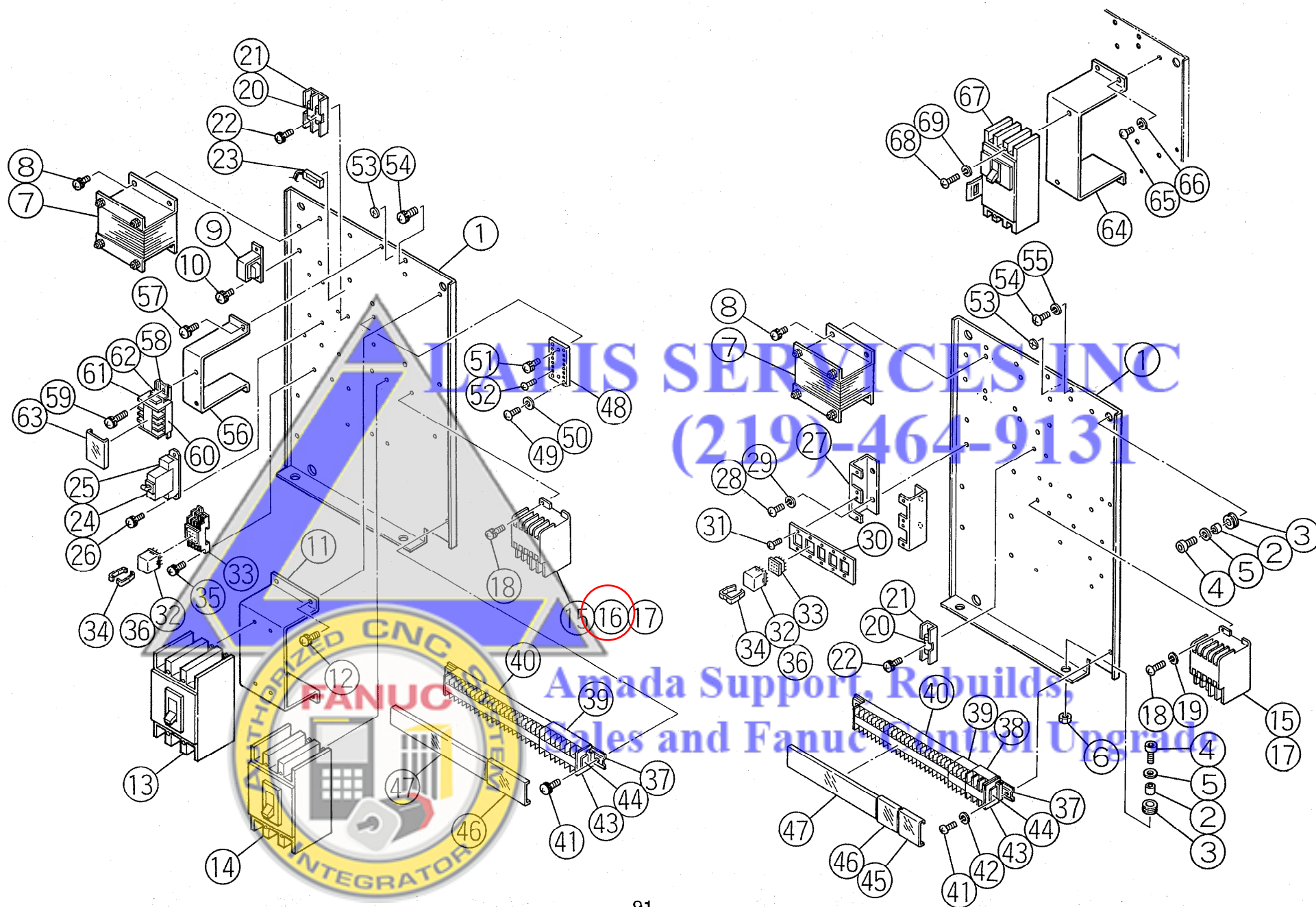
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From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Apparatus setting plate					
	36140318	(Japan)	4123964D		1		
	36140321	(EXP)	4160040		1		
2	36140117	Collar	4091581A		4		
3	36141101	Grommet		C-30-NG-79-G (Takigen)	4		
4	36147104 (74302813)	Cap screw		M6 x 12	4		
5	36147708	Washer		M8 polish	4		
6	36147804 (36322524)	Nut		M6 type-2	2		
7		Transformer					
	36140406	(Japan)		SE3-55 200VA 200-220/100-110 (Aporo)	1		
	36140408	(EXP)		APT-200VA (Aporo)	1		
8		Pan head machine screw					
	36147308 (58250511)	(Japan)		M5 x 8	4		
	36177211	(EXP)		M5 x 8 sems screw	4		
9	36140407	Transformer	7935074	TR-1	1		EXP
10	36177211	Pan head machine screw		M5 x 8 sems screw	4		EXP
11	36140230	Breaker base	4160044		1		EXP



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
12	36177211	Pan head machine screw		M5 x 8 sems screw	4		EXP
13		Circuit breaker					
	36140712	(230V)		BU-ESA3040L 480V (Fuji)	1		EXP
	36140716	(460V)		BU-ESA3030L 480V (Fuji)	1		EXP
14		Motor breaker					
	36140836	(230V)		BU-ECA3030L 240V (Fuji)	1		EXP
	36140839	(460V)		BU-ESA3015L 480V (Fuji)	1		EXP
15		Magnet switch					
	36140642	(Japan)		SW-1N AC100V (Fuji) thermal 3 ϕ 200V 5.5 kW	1		
	36140607	(EXP)		SW-2N AC100V (Fuji) thermal 3 ϕ 230V 5.5 kW	1		
16		Thermal relay					
	36140629	(Japan)		3 ϕ 200V 5.5 kW (Fuji)	1		
	36140628	(EXP - 230V)		TR2 3 ϕ 230V 5.5 kW (Fuji)	1		
	36140608	(EXP - 460V)		TR2 3 ϕ 460V 5.5 kW (Fuji)	1		
17	36140916	Noise filter		ENB221K-14A (Fuji)	1		
18		Pan head machine screw					
	36147302 (74306414)	(Japan)		M4 x 8	2		

From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36177206	(EXP)		M4 x 8 sems screw	2		
19	36147602 (44027327)	Spring washer		M4 type-2	2		Japan
20		Fuse					
	36140920	(Japan)		F-7161 2A (Sato)	1		
	36140922	(EXP - 230V)		ATM3-A6Y-2 3A 600V (GOULD)	2		
	36140921	(EXP - 460V)		ATM2-A6Y-2 2A 600V (GOULD)	2		
21		Fuse holder					
	36140919	(Japan)		F-7111 (Sato)	1		
	36140017	(EXP)		30322 (GOULD)	1		
22		Pan head machine screw					
	36147302 (74306414)	(Japan)		M4 x 8	2		
	36177206	(EXP)		M4 x 8 sems screw	2		
23	36140911	Hour meter		TM-25 (Fuji ceramic)	1		EXP
24		Circuit protector					
	36140721	(S.T.D.)		CP31E I/2.5 (Fuji)	1		EXP
	36140722	(Punch-clamp)		CP31E I/3 (Fuji)	1		EXP
25	36141403	Socket		CP-S1 (Fuji)	1		EXP



From serial No. 00809086 and after.

Unit No. 22
Electric (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
26	36177206	Pan head machine screw		M4 x 8 sems screw	2		EXP
27	36140125	Bracket	4095492A		2		Japan
28	36147308 (58250511)	Pan head machine screw		M5 x 8	4		Japan
29	36147604 (44027927)	Spring washer		M5 type-2	4		Japan
30	36141407	Socket setting plate		PYP-18 (OMRON)	1		Japan
31	36147301	Pan head machine screw		M3 x 6	4		Japan
32	36140901	Control relay R-31		MY4 AC100V (OMRON)	1		
33		Socket					
	36141120	(Japan)		PY14 (OMRON)	1		
	36141402 (76176440)	(EXP)		PYF14A (OMRON)	1		
34		Clip					
	36141120	(Japan)		PYC-P (OMRON)	1		
	36141123 (36183625)	(EXP)		PYC-A1 (OMRON)	1		
35	36177206	Pan head machine screw		M4 x 8 sems screw	2		EXP
36	36140906	Noise filter		Z10L221 (Ishizuka)			
37	36141205	Channel base		BNP 375 L (Izumi)	1		
38	36141303	Terminal		BN75 (Izumi) Japan ... EXP ...	3 0		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
39	36141302	Terminal		BN50 (Izumi) Japan ... EXP ...	4 7		
40	36141301	Terminal		BN15M (Izumi)	24		
41		Pan head machine screw					
	36147311	(Japan)		M5 x 15	2		
	36177213	(EXP)		M5 x 15 sems screw	2		
42	36147604 (44027927)	Spring washer		M5 type-2	2		Japan
43		End plate					
	36140814	(Japan)		BNE 75 (Izumi)	1		
	36140813	(EXP)		BNE 50 (Izumi)	1		
44	36141119	Clip		BNL 3 (Izumi)	2		
45	36141327	Terminal cover		BNC42 65 L (Izumi)	1		Japan
46		Terminal cover					
	36141326	(Japan)		BNC32 65 L (Izumi)	1		
	36141320	(EXP)		BNC32 110 L (Izumi)	1		
47		Terminal cover					
	36141317	(Japan)		BNC22 190 L (Izumi)	1		
	36141316	(EXP)		BNC22 220 L (Izumi)	1		



From serial No. 00809086 and after.

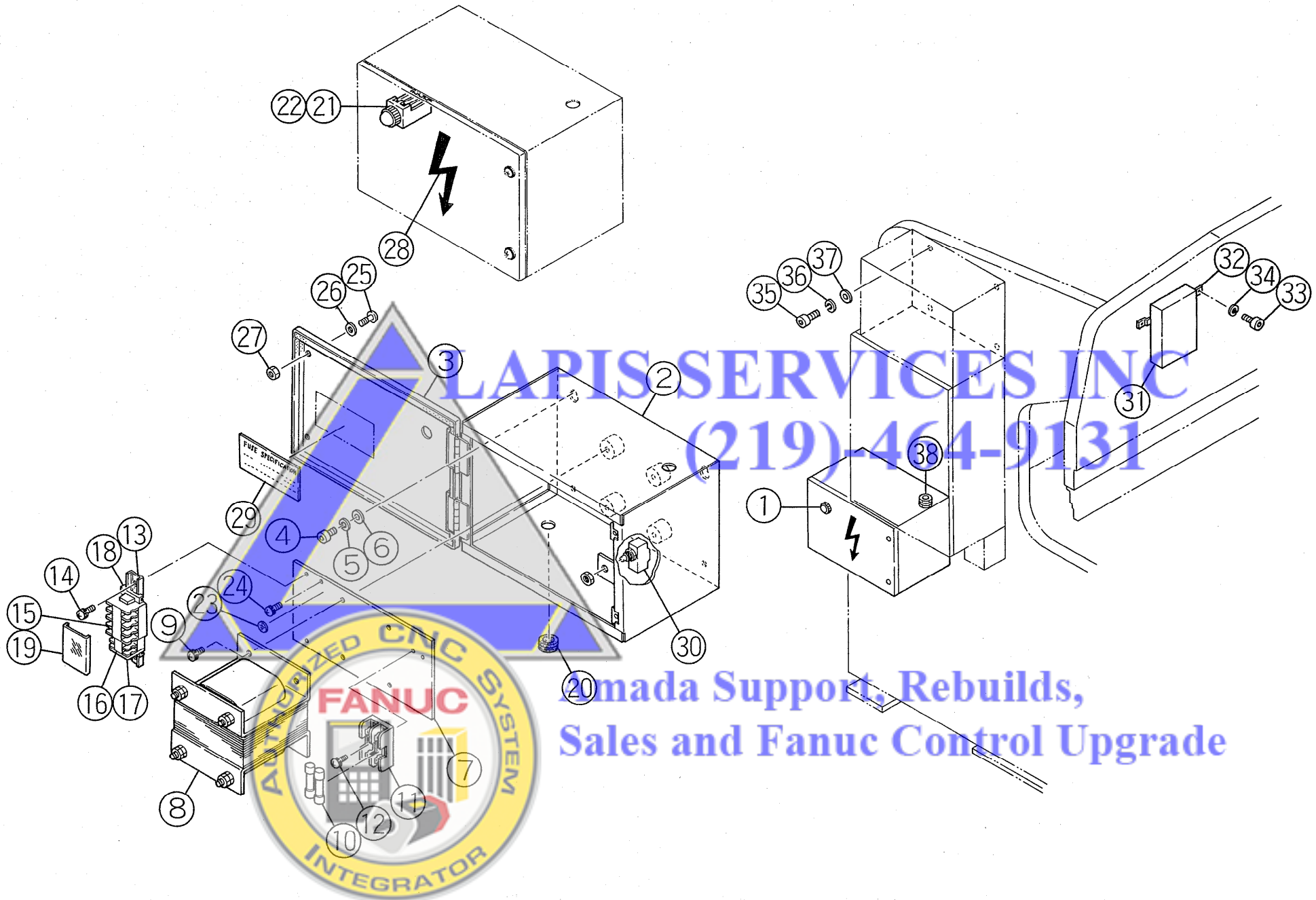
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
48	36140215	Plate (for ground)	4134094		1		EXP
49	36177211	Pan head machine screw		M5 x 8 sems screw	2		EXP
50	36147704	Washer		M5 polish	4		EXP
51	36147308 (58250511)	Pan head machine screw		M5 x 8	4		EXP
52	36147302 (74306414)	Pan head machine screw		M4 x 8	12		EXP
53	36140026	Sticker (ground)		AS-K Japan ... EXP ...	2 3		
54		Pan head machine screw					
	36147310 (74305017)	(Japan)		M5 x 10	1		
	36177211	(EXP)		M5 x 8 sems screw	1		
55	36147604 (44027927)	Spring washer		M5 type-2	1		Japan
56	36140328	Terminal base	4134105A		1		EXP
57	36177211	Pan head machine screw		M5 x 8 sems screw	2		EXP
58	36141201	Channel base		BNP L=112.5	1		EXP
59	36177213	Pan head machine screw		M5 x 15 sems screw	2		EXP
60	36141303	Terminal		BN 75	4		EXP
61	36140814	End plate		BNE 75	1		EXP
62	36141119	Clip		BNL 3	2		EXP



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Unit No. 23
Electric (3) - Backgauge

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Electrical box ass'y					
	36140138	(Japan)	7935070		1 set		
	36140136	(EXP)	4130346B		1 set		
2	36145028	Electrical box	4130372B		1		EXP
3	36140420	Rubber packing		10 x 10 x 1000 L	1		EXP
4	36147113 (36329937)	Cap screw		M8 x 10	4		EXP
5	36147609 (10001521)	Spring washer		M8	4		EXP
6	36147707 (74300511)	Washer		M8	4		EXP
7	36145119	Apparatus setting plate	4134269		1		EXP
8	36145401	Transformer		TL-SA4M-75 640VA (Aporo)	1		EXP
9	36147317	Sems screw (2 pcs)		M6 x 10	4		EXP
10		Fuse					
	36145428	(for 230V)		ATM6-A6Y-2 6A (GOULD)	2		EXP
	36145429	(for 460V)		ATM3-A6Y-2 3A (GOULD)	2		EXP
11	36144001	Fuse holder		30322 (GOULD)	1		EXP
12	36177206	Sems screw (2 pcs)		M4 x 8	2		EXP
13	36145824	Rail		BNP 154 L (Izumi)	1		EXP

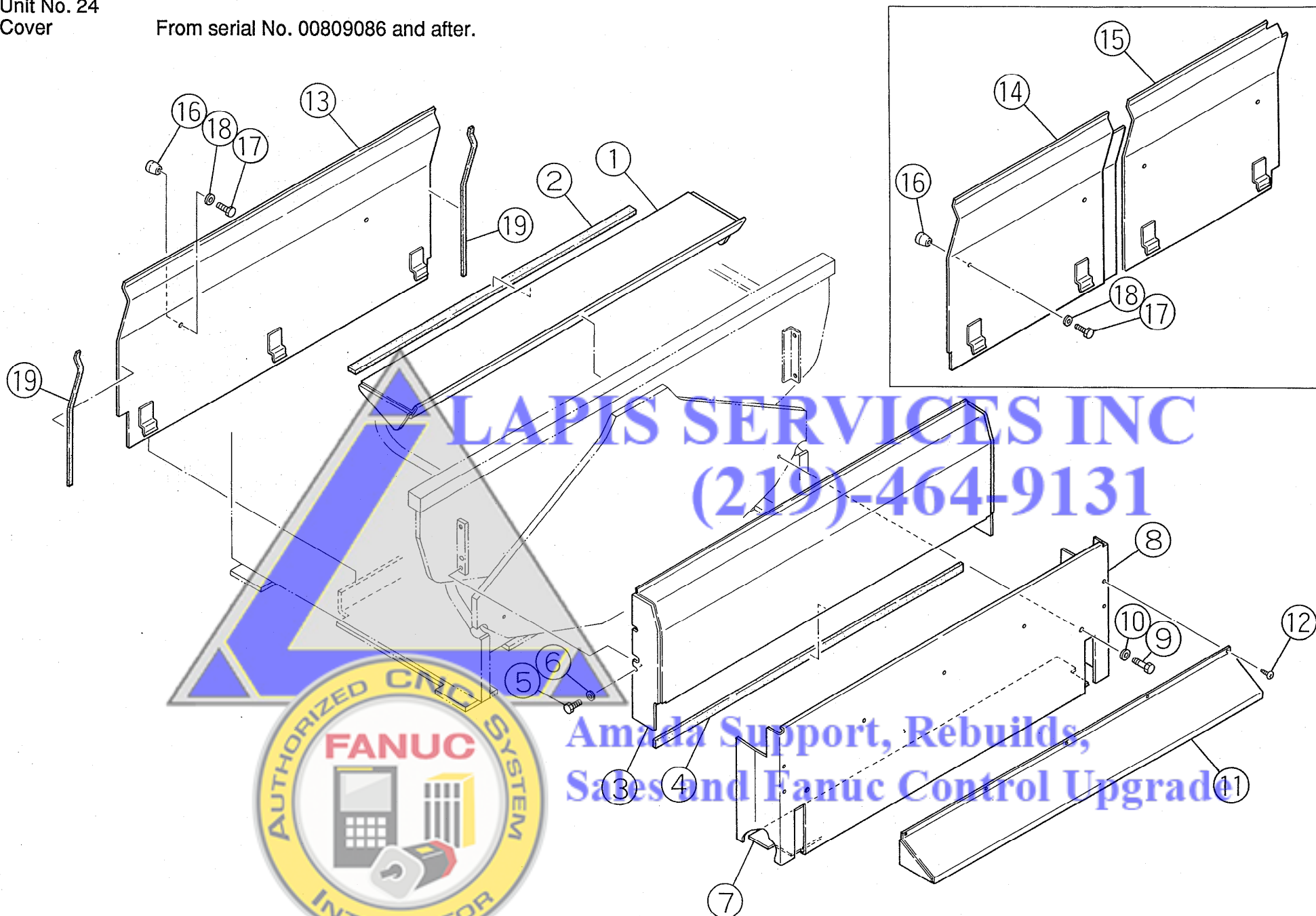


From serial No. 00809086 and after.

Unit No. **23**
Electric (3) - Backgauge

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36147317	Sems screw (2 pcs)		M6 x 10	2		EXP
15	36145502	Terminal block		BN-50 (Izumi)	4		EXP
16	36145501	Terminal block		BN-15M (Izumi)	2		EXP
17	36145813	End plate		BEN-15 (Izumi)	1		EXP
18	36145831	Retainer		BNL-3 (Izumi)	2		EXP
19	36145510	Cover		BNC32 80 L (Izumi)	1		EXP
20	36145524	Grommet		SG-22A (Takigen)	1		EXP
21	36145517	Pilot light (with ring)		AH22-ZMWH AC200V black (Fuji)	1		EXP
22	36145422	Noise filter		Z10L 391	1		EXP
23	36144010	Sticker (ground)		AS-K	1		EXP
24	36147317	Sems screw (2 pcs)		M6 x 10	1		EXP
25	36144023	Screw	4095509		2		EXP
26	36147707 (74300511)	Washer		M8	2		EXP
27	36147807 (36329932)	Nut		M8 type 3	2		EXP
28	36144007	Sticker (electric)	389793		1		EXP
29	36144008	Sticker (fuse)	4134270		1		EXP
30	36145409	Limit switch		BZ-2RQ1-T4-J (Yamatake-Haneywell)	1		EXP





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From serial No. 00809086 and after.

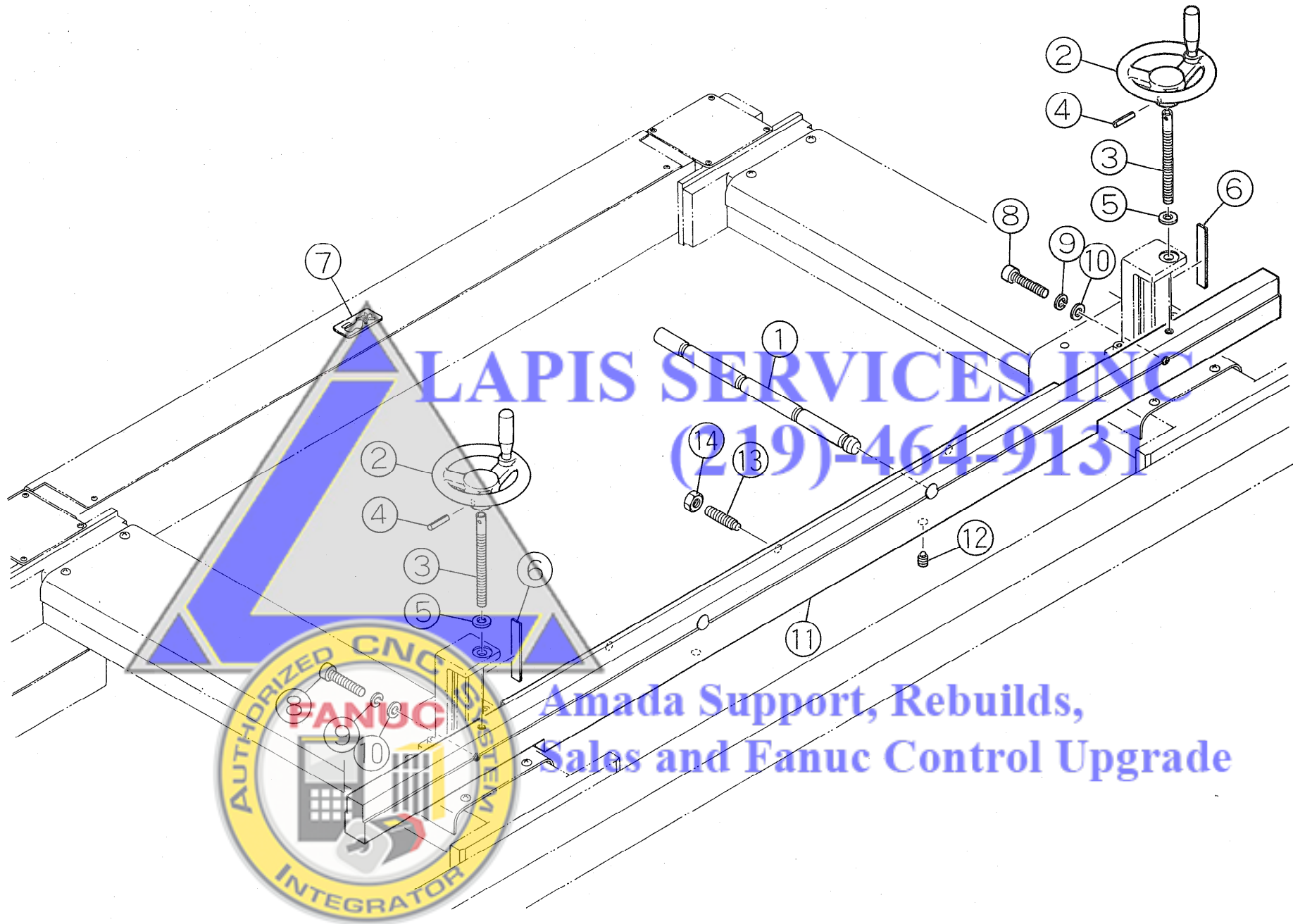
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36142832	Upper cover	51.76015.0		1		
2	36142931	Felt	51.07508.0A		1		
3	36146206	Front cover (upper)	4120414		1		
4	36142935	Felt	51.56619.0		1		
5	36147010 (44029703)	Bolt		M10 x 20	4		
6	36147711	Washer		M10 type-2	4		
7	36142704	Auxiliary cover	4121655A		1		
8	36142630	Front cover (lower)	4096321B		1		
9	36147015	Bolt		M10 x 45	2		
10	36147710 (74300512)	Washer		M10	2		
11	36142719	Pedal cover	4091222B		1		
12	36147309	Pan head machine screw		M5 x 8 type-3	6		
13	36143126	Rear cover	4090754B		1		Japan
14	36143027	Rear cover (L)	4128720A		1		EXP
15	35143103	Rear cover (R)	4128722		1		EXP
16	36142907 (36333401)	Knob	4040893	Japan ... EXP ...	2 4		
17	36147010 (44029703)	Bolt		M10 x 20 Japan ... EXP ...	2 4		



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Unit No. 25
Backgauge (1)

From serial No. 00809086 and after.



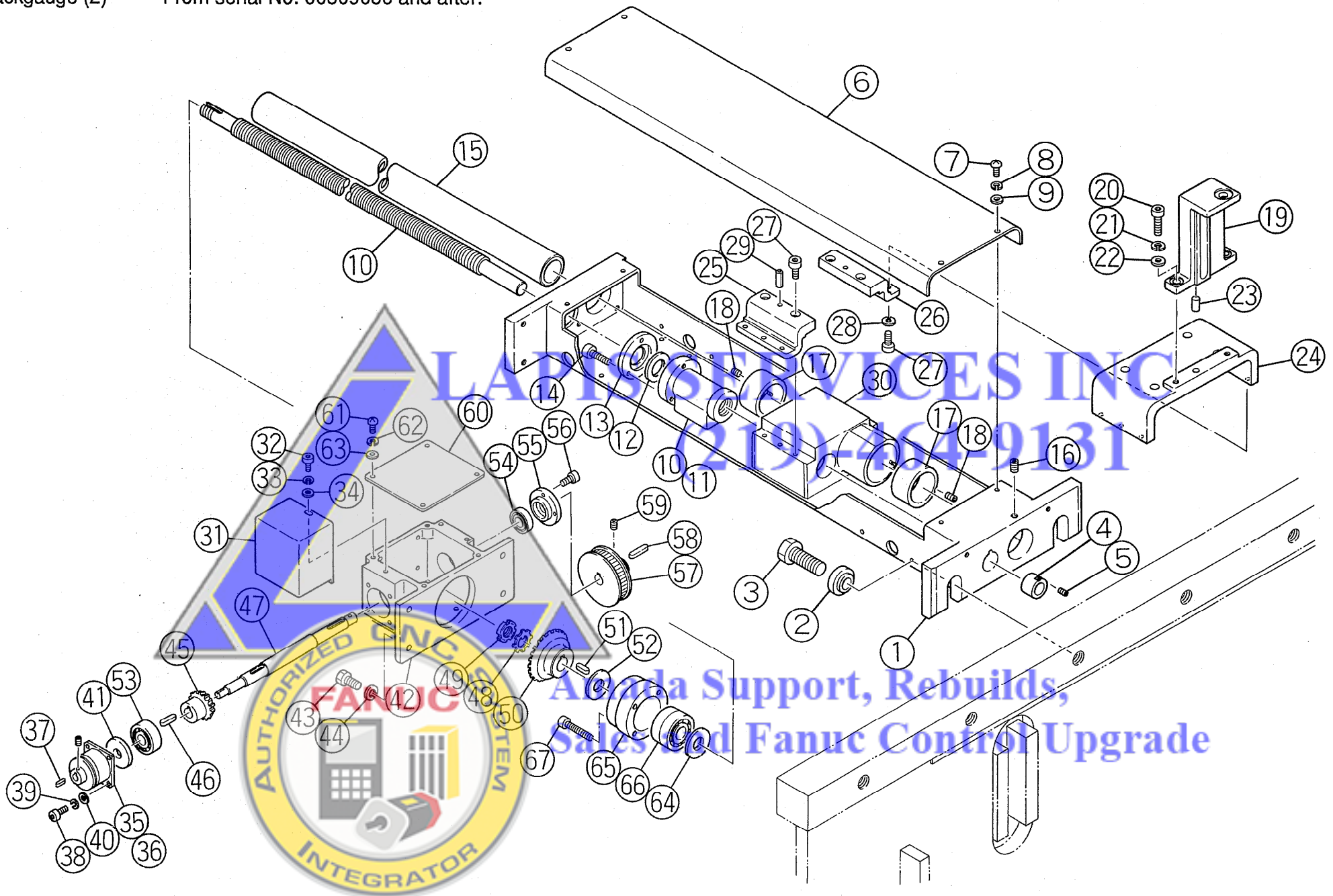
From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36145201 (36002328)	Rod	571330		2		
2	36144101	Handwheel	4124910		2		
3	36144107	Bolt	4124911A		2		
4	36147907 (10565802)	Spring pin		φ5 x 30	2		
5	36147711	Washer		M10 polish	2		
6		Scale					
	36144113	(inch)	4128704		2		EXP
	36144112	(mm)	4124912A		2		
7	36144011 (74325307)	Sticker (caution)	810649		1		
8	36147133 (74314415)	Cap screw		M10 x 50	2		
9	36147612	Spring washer		M10 type 2	2		
10	36147711	Washer		M10 polish	2		
11	36144623	Straightedge	4124967B		1		
12	36145714	Ball plunger		BP-10-L	2		
13	36147518	Set screw		M12 x 50 dog end	3		
14	36147813	Nut		M12 type 3	3		



Unit No. 26
Backgauge (2)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36144120	Support frame (R)	4124914F		1		
2	36145131 (36106901)	Washer	51.45037.0		2		
3	36147030 (36106815)	Bolt		M20 x 50	2		
4	36145914	Oilless metal bushing		SOB-20 x 20 (Sankyo)	1		
5	36147501 (10555821)	Set screw		M3 x 6	1		
6	36144129	Cover	4124920A		1		
7	36147302 (74306414)	Pan head machine screw		M4 x 8	4		
8	36147603 (36181133)	Spring washer		M4 type 2	4		
9	36147702	Washer		M4 polish	4		
10	36145225	Ball screw	7937016B	25RCS10-858SR-FW (Tubakimoto)	1		
11	36145807	Seal cap		S02502 (Tubakimoto)	1		
12	36145801	Brush wiper		W02501 (Tubakimoto)	2		
13	36144523	Brush support	4124949		1		
14	36147109 (74304904)	Cap screw		M6 x 30	3		
15	36144301	Guide bar	4124921		1		
16	36147510	Set screw		M8 x 15 cup end	1		
17	36145915	Oilless metal bushing		SOB-45 x 30 (Sankyo)	2		



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-118-



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From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36147503	Set screw		M5 x 10	2		
19	36144307 (36002759)	Arm	4124922A		1		
20	36147119 (74302818)	Cap screw		M8 x 30	2		
21	36147610	Spring washer		M8 type 2	2		
22	36147708	Washer		M8 polish	2		
23	36147929	Straight pin		Φ8h7 x 15	1		
24	36144313	Saddle	4124923		1		
25	36144321	Bracket (A)	4124924A		1		
26	36144322	Bracket (B)	4124925A		1		
27	36147106	Cap screw		M6 x 15	10		
28	36147608 (36323020)	Spring washer		M6 type 2	6		
29	36147905 (10564018)	Spring pin		Φ5 x 20	2		
30	36144401	Carriage	4124926B		1		
31	36144917	Brake cover	4126643		1		
32	36147302 (74306414)	Pan head machine screw		M4 x 8	2		
33	36147603 (36181133)	Spring washer		M4 type 2	2		
34	36147702	Washer		M4 polish	2		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36145207	Electro-magnetic brake	7935029	AMB-10-01	1		
36	36145732	Bushing		MCP-5	1		
37	36145719	Key		2.5 x 2.5 x 12	1		
38	36147302 (74306414)	Pan head machine screw		M4 x 8	4		
39	36147603 (36181133)	Spring washer		M4 type 2	4		
40	36147702	Washer		M4 polish	4		
41	36144407	Collar	4124928		1		
42	36144415	Gear case (R)	4124930A		1		
43	36147006 (37014514)	Bolt		M8 x 20	4		
44	36147610	Spring washer		M8 type 2	4		
45	36144423	Bevel gear	4124931A		1		
46	36145722	Key		5 x 5 x 25 double round end	1		
47	36144481	Shaft	4124932A		1		
48	36145923 (44554105)	Crown washer		AW-04	1		
49	36145922 (58135316)	Crown nut		AN-04	1		
50	36144424	Bevel gear	4124933B		1		
51	36145721	Key		5 x 5 x 20 double round end	1		



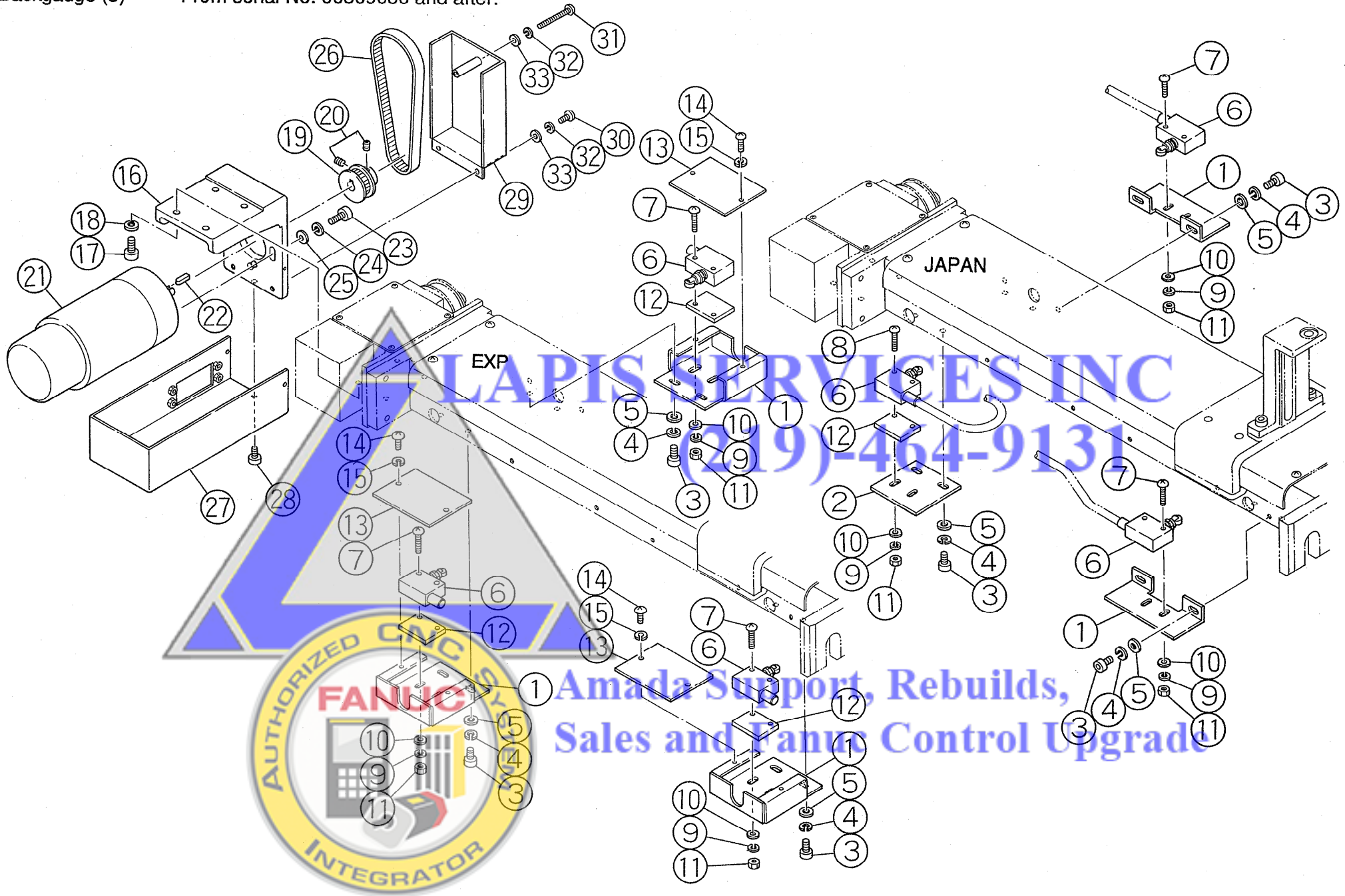
From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
52	36144909	Spacer	4125547		1		
53	36145703 (73158333)	Ball bearing		#6302ZZ (NTN)	1		
54	36145701 (10317503)	Ball bearing		#6002ZZ (NTN)	1		
55	36144501	Flange	4124934		1		
56	36147106 (74300604)	Cap screw		M6 x 15	4		
57	36144509	Pulley	4124935		1		
58	36145723	Key		5 x 5 x 30 double round end	1		
59	36147504 (74305504)	Set screw		M6 x 6	1		
60	36144130	Cover	4124936		1		
61	36147302 (74306414)	Pan head machine screw		M4 x 8	4		
62	36147603 (36181133)	Spring washer		M4 type 2	4		
63	36147702	Washer		M4 polish	4		
64	36144408	Collar	4124939		1		
65	36144517	Bearing case	4124940A		1		
66	36145704	Ball bearing		7304CDB-GNP4 (NTN)	1		
67	36147111 (10310362)	Cap screw		M6 x 45	4		



Unit No. 27
Backgauge (3)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		LS setting plate					
	36145102 (38125920)	(Japan)	4126634		2		
	36145101	(EXP)	4134232A		3		
2	36145103	LS setting plate	4126642		1		Japan
3	36147103 (74302812)	Cap screw		M6 x 10	6		
4	36147608 (36323020)	Spring washer		M6 type 2	6		
5	36147706	Washer		M6 polish	6		
6	36145408 (36180620)	Limit switch		SL1-A (Haneywell)	3		
7		Pan head machine screw					
	36112636 (10357029)	(Japan)		M4 x 30	4		
	36147316	(EXP)		M4 x 45	6		
8	36147316	Pan head machine screw		M4 x 45	2		Japan
9	36147603 (36181133)	Spring washer		M4 type 2	6		
10	36147702	Washer		M4 polish	6		
11	36147801 (36181134)	Nut		M4 type 2	6		
12	36144910	Spacer	4134417	Japan ... EXP ...	1 3		
13	36145107	LS cover	4134233		3		EXP



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36147308 (58250511)	Pan head machine screw		M5 x 8	6		EXP
15	36147606 (36329924)	Spring washer		M5 type 2	6		EXP
16		Motor bracket					
	36145114 (36002737)	(Japan)	4124937		1		
	36145113	(EXP)	4134251		1		
17	36147108 (74302815)	Cap screw		M6 x 20	4		
18	36147608 (36323020)	Spring washer		M6 type 2	4		
19	36144510	Pulley	4124938		1		
20	36147502	Set screw		M4 x 4	2		
21		Motor					
	36145214	(Japan)		DC-150W with encoder (Nituki)	1		
	36145213	(EXP)	7935070	(Nituki)	1		
22	36145720	Key		4 x 4 x 20 single round end	1		
23	36147108 (74302815)	Cap screw		M6 x 20	4		
24	36147608 (36323020)	Spring washer		M6 type 2	4		
25	36147705 (44027930)	Washer		M6	4		
26	36145901	Timing belt		187L050 (Mituboshi)	1		

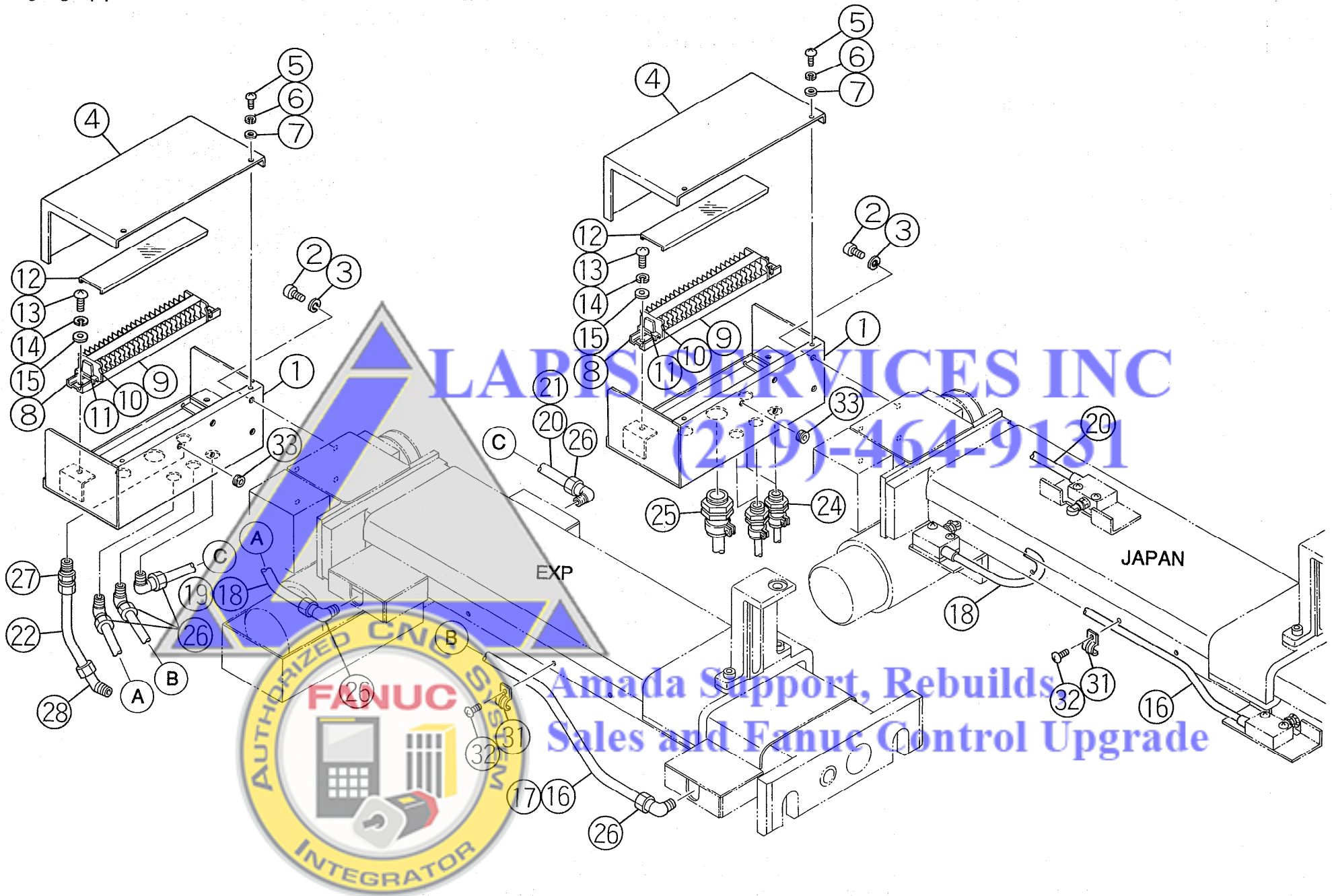


From serial No. 00809086 and after.

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Unit No. 28
Backgauge (4)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Terminal box					
	36145033	(Japan)	4124941C		1		
	36145034	(EXP)	4130347A		1		
2	36147106 (74300604)	Cap screw		M6 x 15	4		
3	36147608 (36323020)	Spring washer		M6 type 2	4		
4	36144132	Cover	4124947B		1		
5	36147302 (74306414)	Pan head machine screw		M4 x 8	4		
6	36147603 (36181133)	Spring washer		M4 type 2	4		
7	36147702	Washer		M4 polish	4		
8	36145825	Rail		BNP 253.5 L (Izumi)	1		
9	36145501	Terminal block		BN-15M (Izumi)	22		
10	36145813	End plate		BNE-15 (Izumi)	1		
11	36145831	Retainer		BNL-3 (Izumi)	2		
12	36145509	Terminal cover		BNC22 180 L (Izumi)	1		
13	36147315	Pan head machine screw		M6 x 15	2		
14	36147608 (36323020)	Spring washer		M6 type 2	2		
15	36147706	Washer		M6 polish	2		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16		Cable (-OT)					
	36145645	(Japan)		1.25 mm ² 2-core 800 L	1		
	36145602	(EXP)		KIV 1.25 mm ² 600V blue	1		
17	36145640	Flexible tube		UA-3/8" 780 L with UL earth (Anamet)	1		EXP
18		Cable (+OT)					
	36145646	(Japan)		1.25 mm ² 2-core 500 L	1		
	36145602	(EXP)		KIV 1.25 mm ² 600V blue	1		
19	36145638	Flexible tube		UA-3/8" 300 L with UL earth (Anamet)	1		EXP
20		Cable (origin)					
	36145647	(Japan)		1.25 mm ² 2-core	1		
	36145602	(EXP)		KIV 1.25 mm ² 600V blue	1		
21	36145639	Flexible tube		UA-3/8" 500 L with UL earth (Anamet)	1		EXP
22	36145632	Flexible tube (motor)		UA-3/8" 500 L	1		EXP
23	36145631	Flexible tube (E. box - T. box)		UA-1/2" 4000 L	1		EXP
24	36145655 (36004615)	Code lock		NC-1	7		Japan
25	36145656 (74308127)	Code lock		NC-2	1		Japan
26	36145618	UL connector		5351-3/8" 90° (T&B)	6		EXP



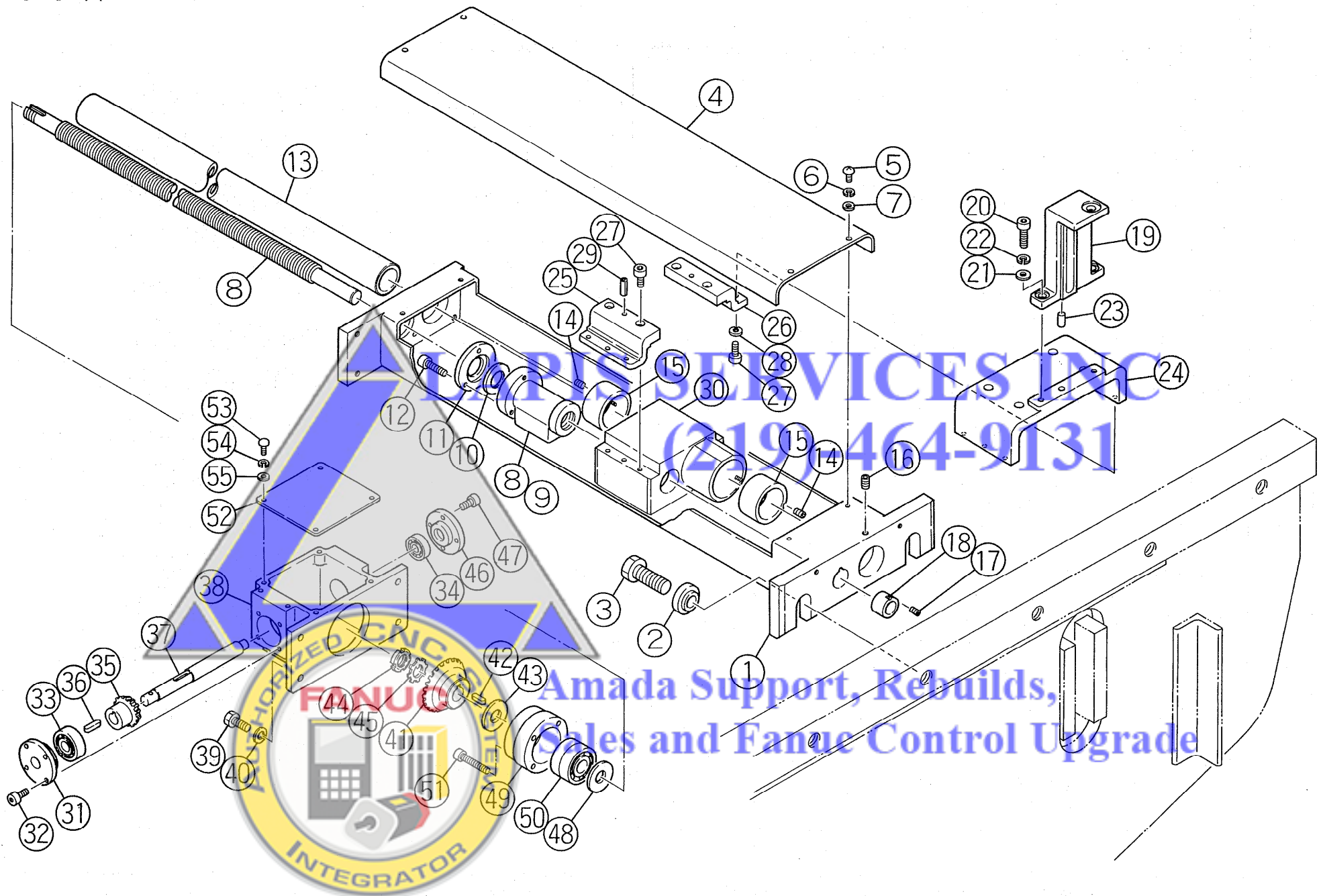
From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
27	36145614	UL connector		5331-3/8" straight (T&B)	1		EXP
28	36145617	UL connector		5341-3/8" 45° (T&B)	1		EXP
29	36145615	UL connector		5332-1/2" straight (T&B)	2		EXP
30	36145416	Diode		1BZ-61 (Toshiba)	1		
31	36145531	Single saddle		CH-9 (Daiwa)	2		
32	36147308 (58250511)	Pan head machine screw		M5 x 8	2		
33	36145523	Grommet		NG-79A (Takigen)	1		
34	36145641	Flexible tube		NPF-13 4000 L (Daiwa)	1		Japan
35	36145613 (44132729)	Connector		CSG-13 (Daiwa)	2		Japan
36	36145619 (10336859)	Collar		CC-13 (Daiwa)	2		Japan
37	36145532 (37117916)	Single saddle		CH-13 (Daiwa)	7		
38	36147308 (58250511)	Pan head machine screw		M5 x 8	7		
39	36145601	Cable		KIV 1.25 mm ² 600V 4500 L black	2		
40	36145603	Cable		KIV 1.25 mm ² 600V 4500 L green	1		
41	36145602	Cable		KIV 1.25 mm ² 600V 4500 L blue	5 1		Japan ... EXP ...



Unit No. 29
Backgauge (5)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36144121	Support frame (L)	4124951		1		
2	36145131 (36106901)	Washer	51.45037.0		2		
3	36147030 (36106815)	Bolt		M20 x 50	2		
4	36144128	Cover	4124920		1		
5	36147302 (74306414)	Pan head machine screw		M4 x 8	4		
6	36147602 (44027327)	Spring washer		M4	4		
7	36147701 (74300510)	Washer		M4	4		
8	36145225	Ball screw	7937016B	25RCS10-858SR-FW (Tubakimoto)	1		
9	36145807	Seal cap		SO2502 (Hashimoto)	1		
10	36145801	Brush wiper		W02501 (Hashimoto)	2		
11	36144523	Brush support	4124949		1		
12	36147109	Cap screw		M6 x 30	3		
13	36144301	Guide bar	4124921		1		
14	36147503	Set screw		M5 x 10	2		
15	36145915	Oilless metal bushing		SOB-45 x 30 (Sankyo)	2		
16	36147510	Set screw		M8 x 15 cup end	1		
17	36147501 (10555821)	Set screw		M3 x 6	1		



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36145914	Oilless metal bushing		SOB-20 x 20 (Sankyo)	1		
19	36144307	Arm	4124922A		1		
20	36147119 (74302818)	Cap screw		M8 x 30	2		
21	36147708	Washer		M8 polish	2		
22	36147609 (10001521)	Spring washer		M8	2		
23	36147929	Straight pin		Φ8h7 x 15 L	1		
24	36144313	Saddle	4124923		1		
25	36144321	Bracket (A)	4124924A		1		
26	36144322	Bracket (B)	4124925A		1		
27	36147106 (74300604)	Cap screw		M6 x 15	10		
28	36147607 (44027928)	Spring washer		M6	6		
29	36147905 (10564018)	Spring pin		Φ5 x 20	2		
30	36144401	Carriage	4124926B		1		
31	36144502	Flange	4124954		1		
32	36147106 (74300604)	Cap screw		M6 x 15	4		
33	36145703 (73158333)	Ball bearing		#6302ZZ (NTN)	1		
34	36145702 (10312824)	Ball bearing		#6201ZZ (NTN)	1		



From serial No. 00809086 and after.

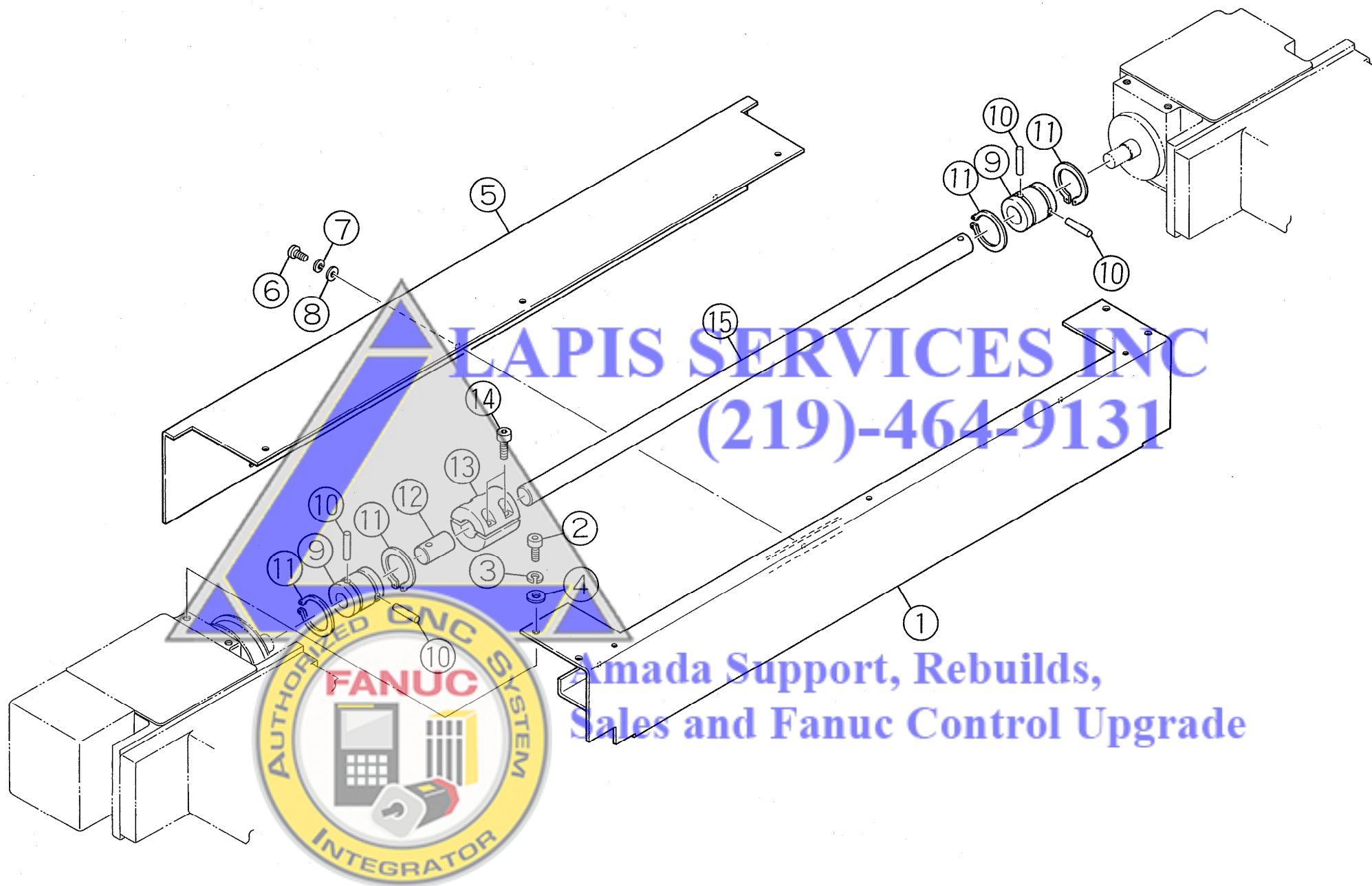
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36144423	Bevel gear	4124931A		1		
36	36145722	Key		5 x 5 x 25 double round end	1		
37	36144432	Shaft	4124955A		1		
38	36144416	Gear case (L)	4124953A		1		
39	36147006 (37014514)	Bolt		M8 x 20	4		
40	36147609 (10001521)	Spring washer		M8	4		
41	36144424	Bevel gear	4124933B		1		
42	36145721	Key		5 x 5 x 20 double round end	1		
43	36144909	Spacer	4125547		1		
44	36145922 (58135316)	Crown nut		AN-04	1		
45	36145923 (44554105)	Crown washer		AW-04	1		
46	36144529	Cap	4124956		1		
47	36147106 (74300604)	Cap screw		M6 x 15	4		
48	36144408	Collar	4124939		1		
49	36144517	Bearing case	4124940A		1		
50	36145704	Ball bearing		7304CDB-GNP4 (NTN)	1		
51	36147111 (10310362)	Cap screw		M6 x 45	4		



Unit No. 29
Backgauge (5)[illegible]

Unit No. 30
Backgauge (6)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36144203	Cover (A)	4124977B		1		
2	36147104 (74302813)	Cap screw		M6 x 12	4		
3	36147608 (36323020)	Spring washer		M6 type 2	4		
4	36147705 (44027930)	Washer		M6	4		
5	36144223	Cover (B)	4124982		1		
6	36147302 (74306414)	Pan head machine screw		M4 x 8	8		
7	36147603 (36181133)	Spring washer		M4 type 2	8		
8	36147702	Washer		M4 polish	8		
9	36144831	Connector	4125388		2		
10	36147928	Straight pin		Φ5m6 x 25 A type	4		
11	36147733 (10423731)	Snap ring		STW-30	4		
12	36144901	Pin	4125389		1		
13	36144721	Coupling	4124987		1		
14	36147108 (74302815)	Cap screw		M6 x 20	4		
15	36144435	Shaft	4124990A		1		



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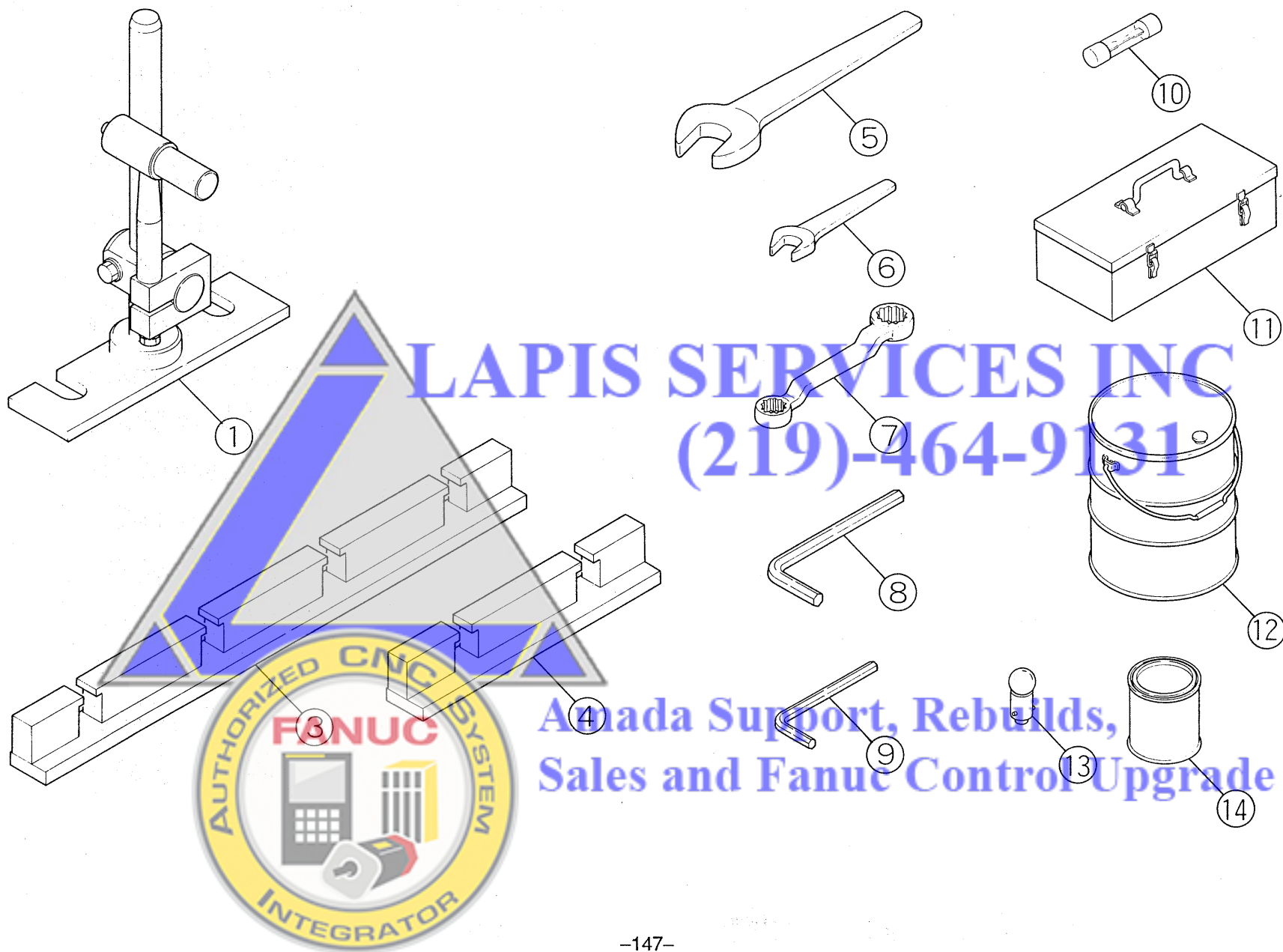
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Unit No. 31
Standard accessories

From serial No. 00507465 and after.



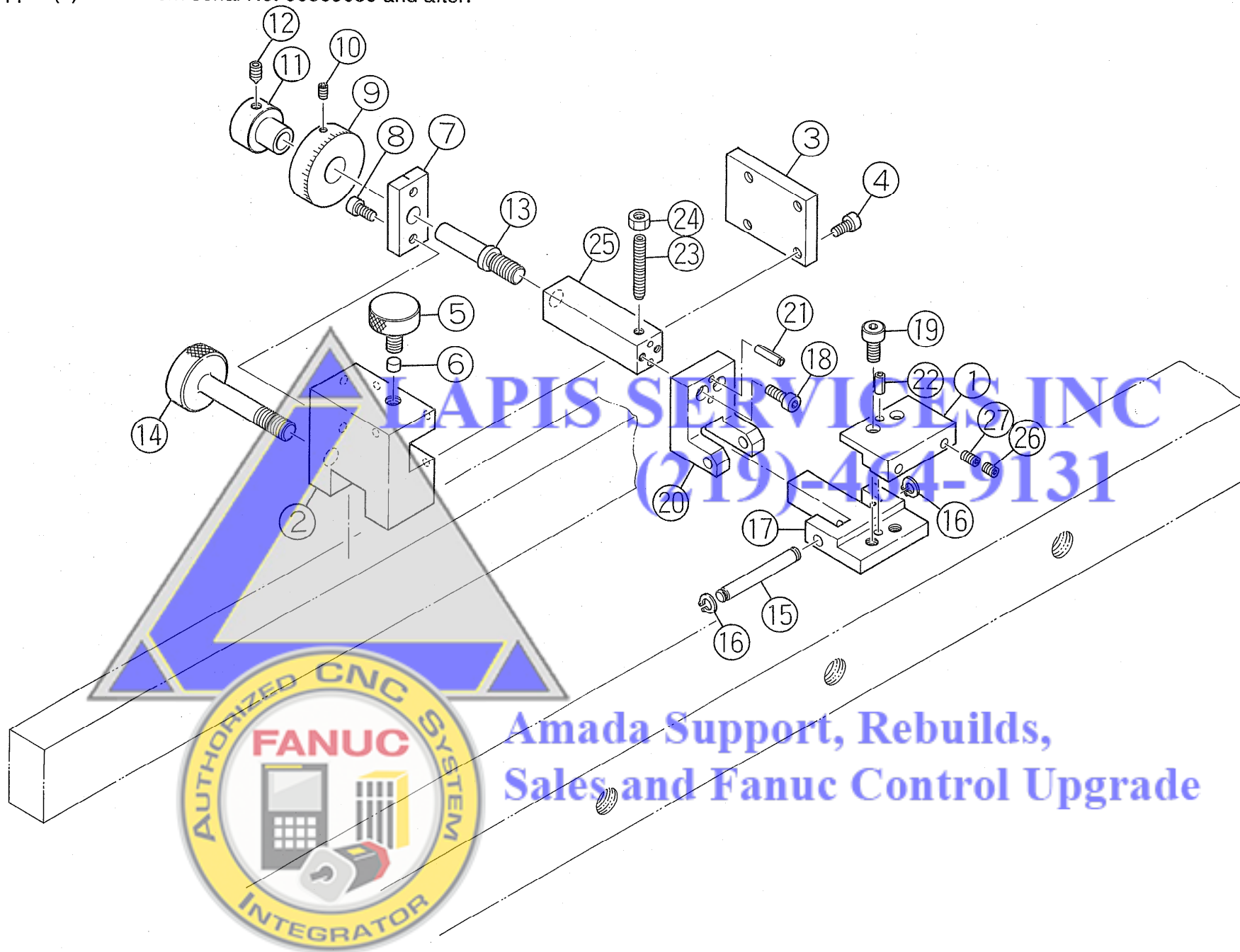
From serial No. 00507465 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36120201	Stopper setting plate	57.80000.0		4		
3	36120215	Die holder	380860C	H=75 L=830	2		
4	36120216	Die holder	380865C	H=75 L=412	1		
5	36143601 (61170214)	Single-end wrench		30	1		
6	36143605	Single-end wrench		13	2		
7	36143609	45° double offset box wrench		14 x 17	1		
8	36143613 (73117607)	Allen wrench		8	2		
9	36143614 (73117605)	Allen wrench		5	1		
10	36143619	Fuse		1A	1		Japan
11	36143629	Tool box		330 x 150 x 100	1		
12		Hydraulic oil		20 L	3		
13	36143620	Bulb for pilot lamp		LS-6 6.3V 1W (Izumi)	2		EXP
14	36143624	Touch paint			0.5 L		EXP



Unit No. 32
Work stopper (1)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36145013	Stopper	4128009		1		
2	36144733	Support (R)	4125080C		1		
3	36144801	Plate	4125081A		1		
4	36147103 (74302812)	Cap screw		M6 x 10	4		
5	36144024	Screw	4125082		1		
6	36144817	Piece	4125083		1		
7	36144804	Plate	4501058		1		
8	36147103 (74302812)	Cap screw		M6 x 10	2		
9	36145125	Dial	4501057		1		
10	36147513	Set screw		M5 x 6 dog end	1		
11	36144823	Knob	4125086		1		
12	36147505 (36323029)	Set screw		M6 x 10 cone end	1		
13	36144025	Screw	4501056		1		
14	36144824	Knob	4125088A		1		
15	36144902	Pin	4128014		1		
16	36147729 (10314125)	Snap ring		STW8	2		
17	36144802	Plate	4128013		1		



Unit No. **32**
Work stopper (1)

[illegible]

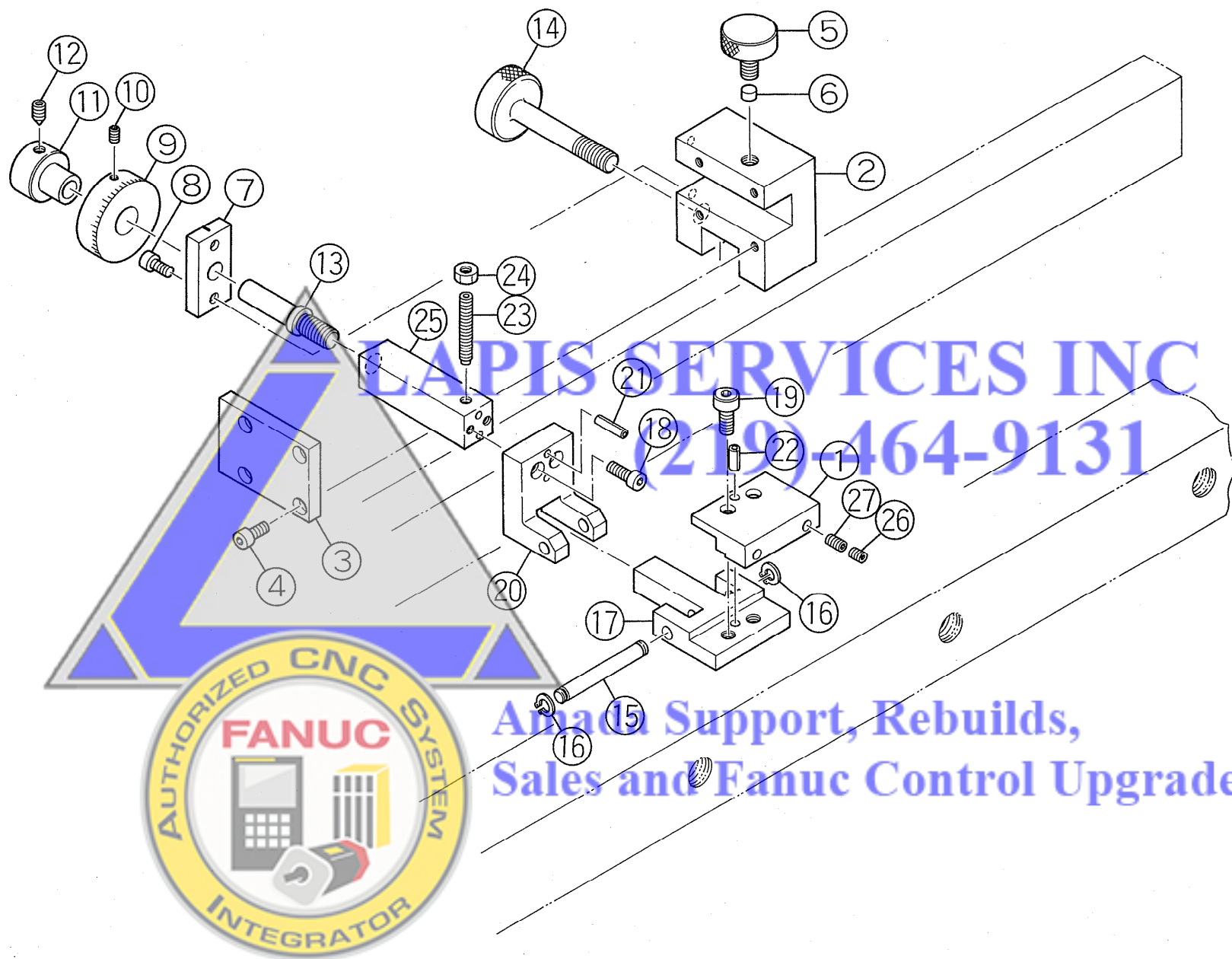
-152-



Unit No. 33

Work stopper (2)

From serial No. 00809086 and after.



From serial No. 00809086 and after.

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36145013	Stopper	4128009		1		
2	36144734	Support (L)	4125089C		1		
3	36144801	Plate	4125081A		1		
4	36147103 (74302812)	Cap screw		M6 x 10	4		
5	36144024	Screw	4125082		1		
6	36144817	Piece	4125083		1		
7	36144804	Plate	4501058		1		
8	36147103 (74302812)	Cap screw		M6 x 10	2		
9	36145125	Dial	4501057		1		
10	36147513	Set screw		M5 x 6 dog end	1		
11	36144823	Knob	4125086		1		
12	36147505 (36323029)	Set screw		M6 x 10 cone end	1		
13	36144025	Screw	4501056		1		
14	36144824	Knob	4125088A		1		
15	36144902	Pin	4128014		1		
16	36147729 (10314125)	Snap ring		STW8	2		
17	36144802	Plate	4128013		1		



Unit No. **33**
Work stopper (2)[illegible]

—156—



SPARE PARTS SET

The following is a list of parts frequently consumed during operation of the machine. We suggest you keep a supply of these expendable items in reserve.

Unit No.	Index No.	Part name	Drawing no. or Type	Qty.	
				STD	Auto B/G
01	11	Pressure Gauge	7936067	1	1
03	07	Limit switch	BZ-ZRS55-T4-J	1	1
04	10	Cone disk spring	R-25	44	44
05	06	Rubber cushion	51.19035	1	1
06	01	Feed screw	4099871	1	1
07	34	Pressure spring	4044547A	1	1
08	02	Friction plate	51.57138.0 (6085437)	6	6
08	18	Tension spring	51.55099.0	2	2
10	15	Pressure spring	4091690	1	1
12	7, 14	Cap screw	M10x35	20	20
12	16	Cap screw	560435B	6	6
13	06	Limit switch	SL1-H	1	1
13	14	Tension spring	4041232	1	1
13	32	Pressure spring	4124529	1	1
14	06	O-ring	1BP 120	1	1
14	07	O-ring	1AP 70	1	1
14	08	O-ring	1BP 50A	1	1
14	09	O-ring	1BP 18	1	1
14	11	Dust Seal	SDR-120	1	1
14	12	Back-up ring	T3P120	1	1
15	05	O-ring	1BP 100	2	2
15	06	Dust Seal	SDR-100	2	2
15	07	Back-up ring	T3P 100	2	2
16	06	O-ring	1AP 18	1	1
16	08	Pressure spring	50.440153.1	1	1
16	15	O-ring	1AP 16	1	1
16	31	Limit switch	1LS19-J	1	1
20	28	Solenoid Valve	7938038	1	1
22	15	Magnet Switch	SW-2N AC100v	1	1
22	20	Fuse	ATM3-A6Y-2 3A 600v (for 230v Machines)	2	2
22	20	Fuse	ATM2-A6Y-2 2A 600v (for 460v Machines)	2	2
22	32	Control Relay R-31	MY4 AC100v	1	1
23	10	Fuse	ATM6-A6Y-2 6A (for 230v Machines)	2	2
23	10	Fuse	ATM6-A6Y-2 3A (for 460v Machines)	2	2
26	10	Ball Screw	25RCS10-858SR-FW	---	1
26	04	Oilless Metal Bushing	SOB-20 x 20	---	1
26	17	Oilless Metal Bushing	SOB-45 x 30	---	2
26	35	Electro-magnetic brake	AMB-10-01	---	1
26	36	Bushing	MCP-5	---	1
26	45	Bevel Gear	4124931a	---	1
26	50	Bevel Gear	4124933b	---	1
26	53	Ball Bearing	#6302ZZ	---	1
26	54	Ball Bearing	#6002ZZ	---	1
26	66	Ball Bearing	7304CDB-GNP4	---	1
27	06	Limit switch	SL1-A	---	2
27	21	Motor	7935070	---	1
27	26	Timing Belt	187L050	---	1
31	12	Bulb for pilot lamp	LS-6 6.3v 1W	2	2