

PRESS BRAKE FBD8020, 8025 NC9EX



LAPIS SERVICES INC
PARTS LIST
(219)-464-9131



**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 FBD8020, 8025 NC9EX 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 46 different units making up the machine.

Unit No.

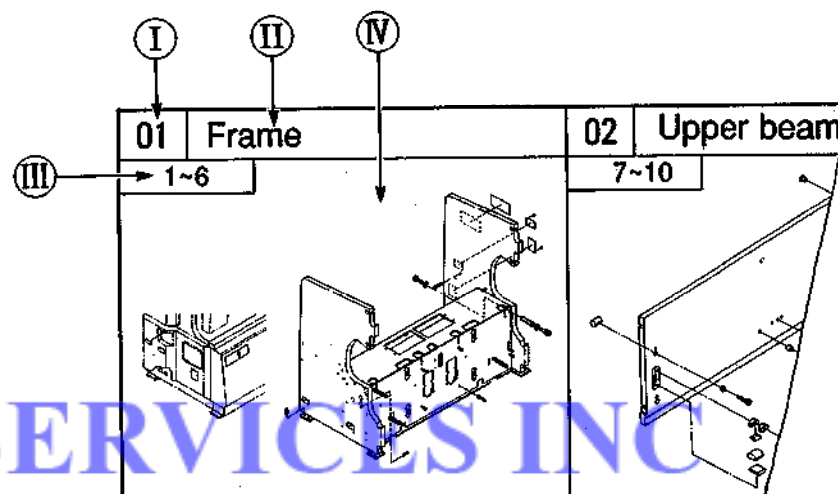
01	Frame	25	Electric (3) – EUR
02	Upper beam	26	Electric (4) – EUR
03	Lower beam	27	Electric (5) – USA
04	Support plate	28	Electric (6) – USA
05	Upper limit setting device	29	Arm – 8020
06	Lower limit setting device	30	Rail – 8025
07	Tool holder	31	Operation box (1)
08	Main cylinder	32	Operation box (2)
09	Sub cylinder	33	Control box
10	Cut-off, Regulator valve	34	Foot pedal
11	Check valve	35	Electric wiring (1)
12	Solenoid, Unload valve	36	Electric wiring (2)
13	Hydraulic pump	37	Electric wiring (3)
14	Hydraulic tank	38	Cover (1)
15	Hydraulic piping	39	Cover (2)
16	Support (1)	40	Side guard – EUR
17	Support (2)	41	Rear guard – EUR
18	Stretch	42	Front support – EUR
19	Work stopper	43	Photo electric safety device
20	Flip-up work stopper – EUR		– UK
21	Pneumatic piping (1) – USA	44	Standard accessories
22	Pneumatic piping (2) – EUR	45	Flip-up work stopper
23	Electric (1) – EUR		– USA
24	Electric (2) – EUR	44	Pneumatic piping (3) – USA

- * 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.

INTRODUCTION

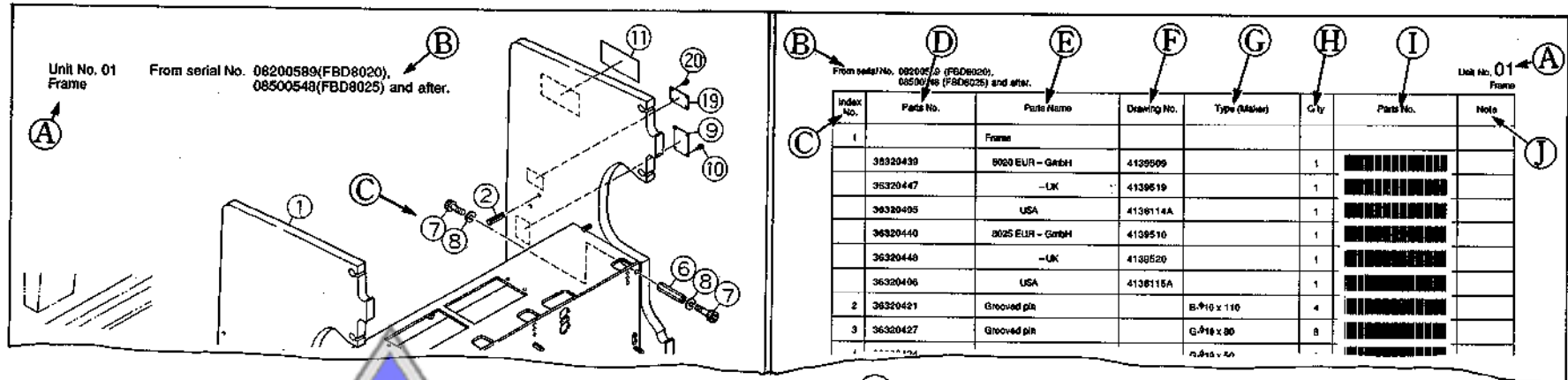
1. TABLE OF CONTENTS



- ① Unit No.
- ② Unit Name
- ③ Corresponding Page Nos.
- ④ Assembly drawings shown in the main text.

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

2. Main Text



(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 FBD8020, 8025 NC9EX 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

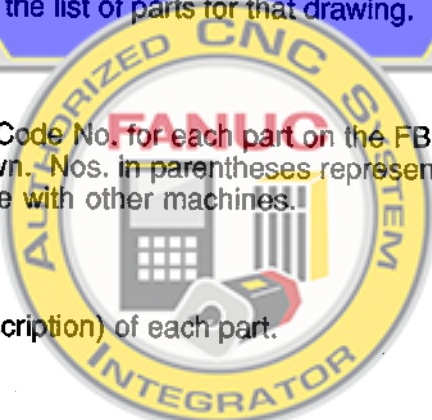
The quantity of each part used on the Japanese domestic and export models is shown.

(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

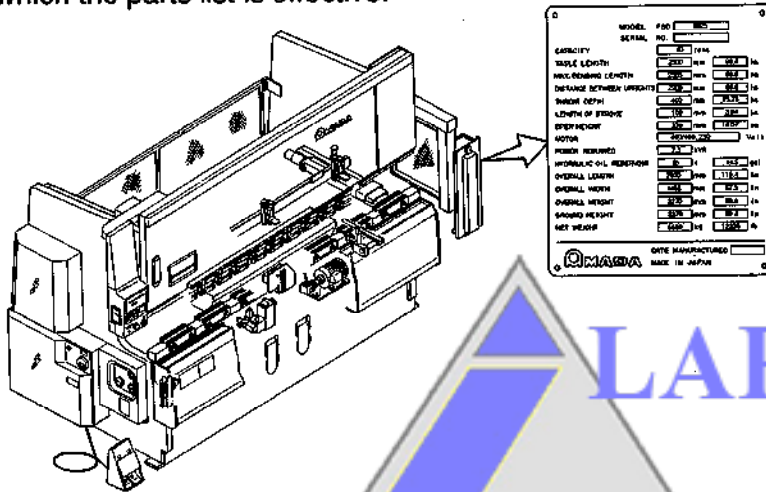
Cautions and notes necessary to the ordering of each part.



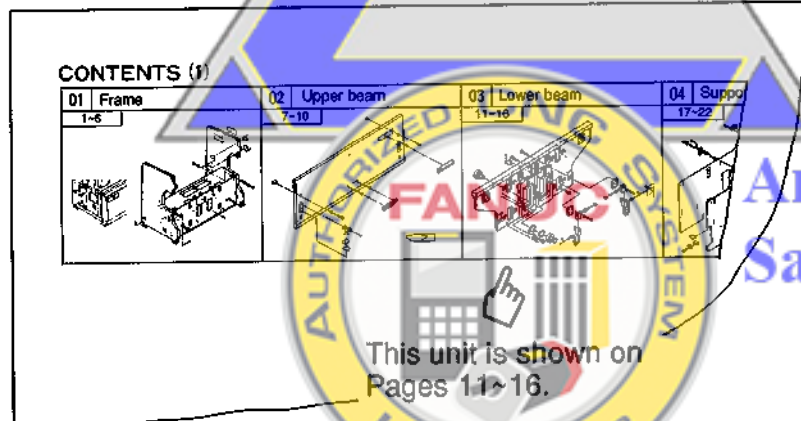
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

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.

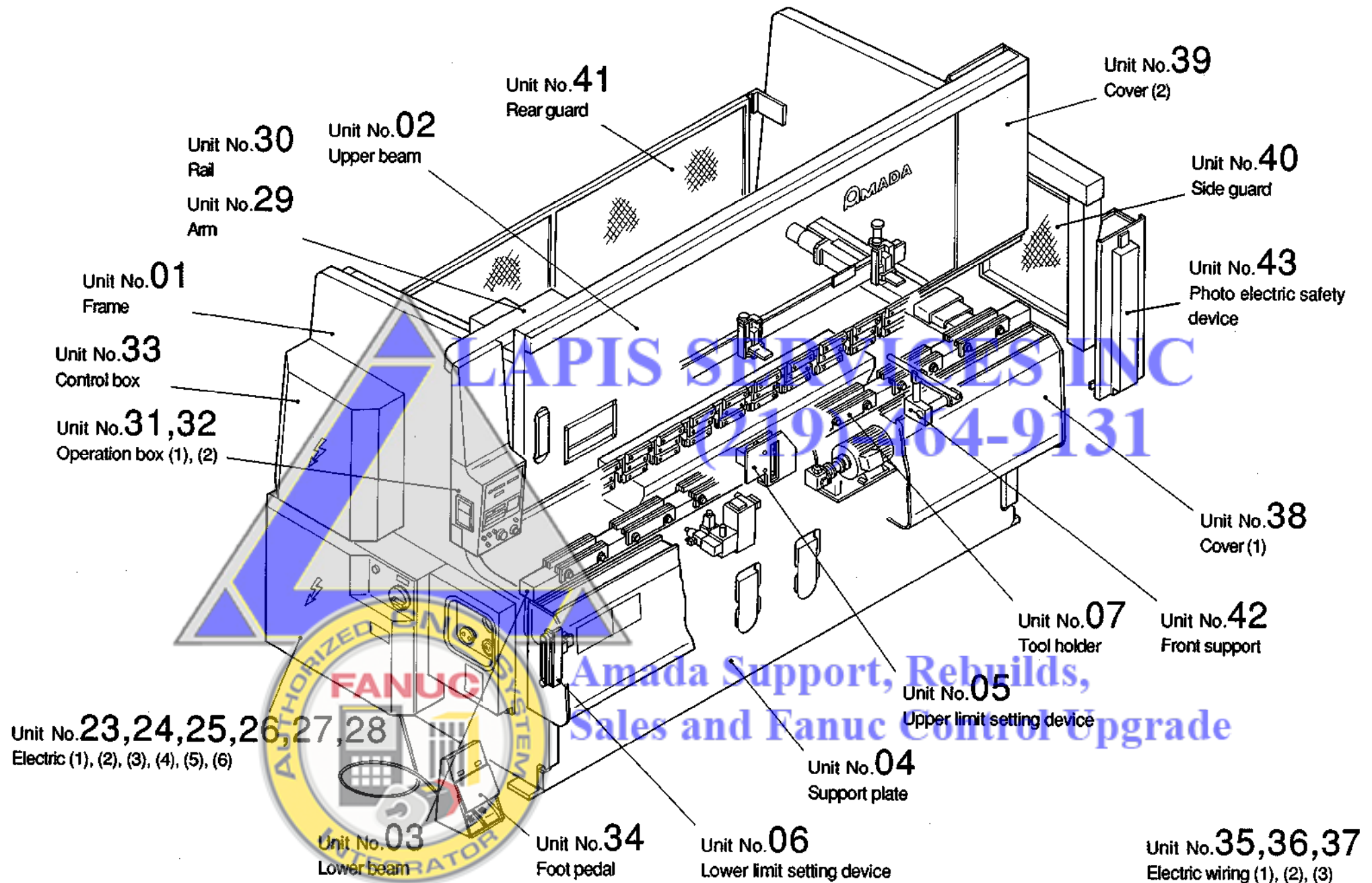
- (4) Quantity

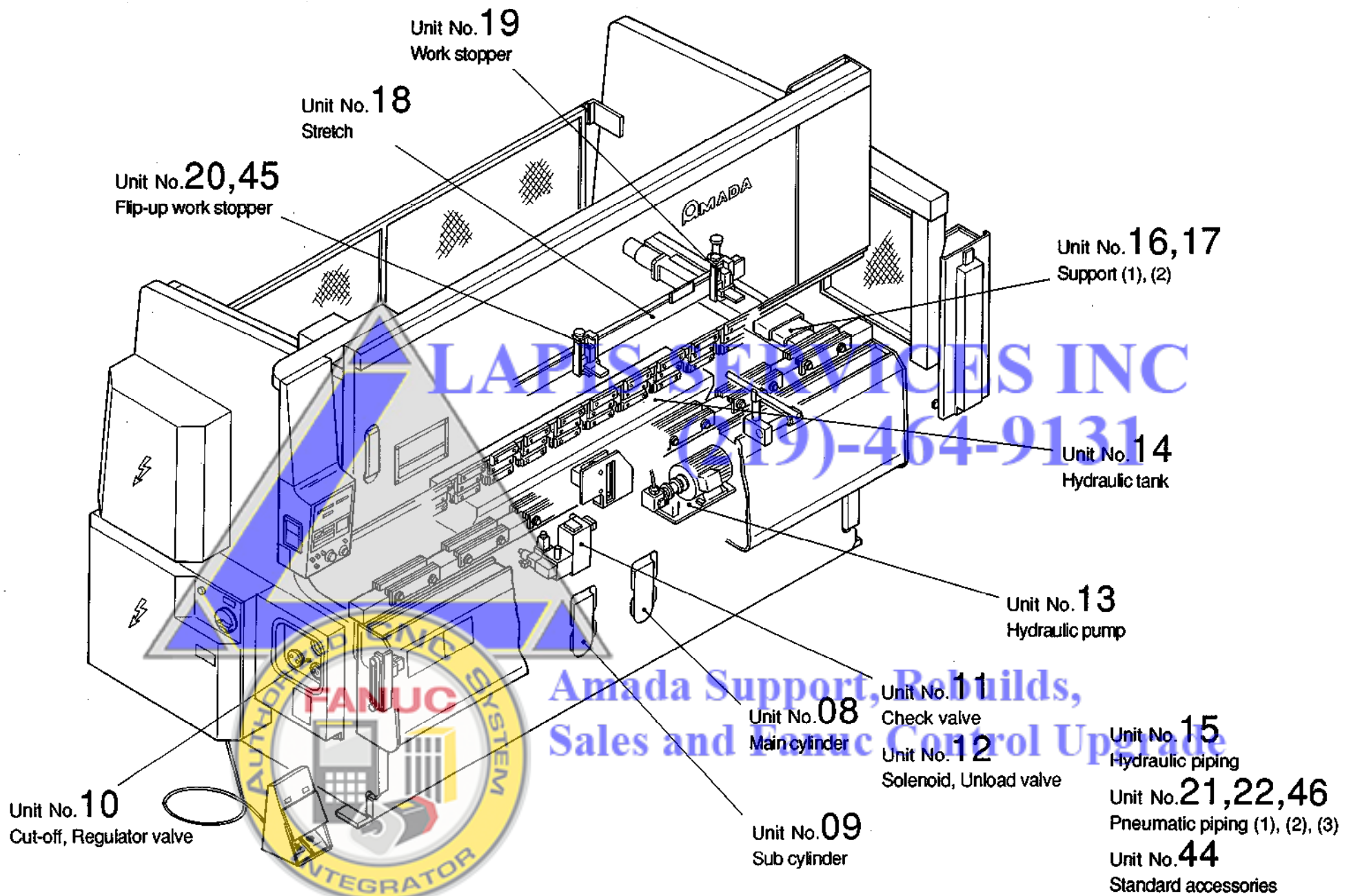
* If the POS system is in use, operate the bar code scanner over Column I in the main text.

LAPIS SERVICES INC.
(219)-464-9131

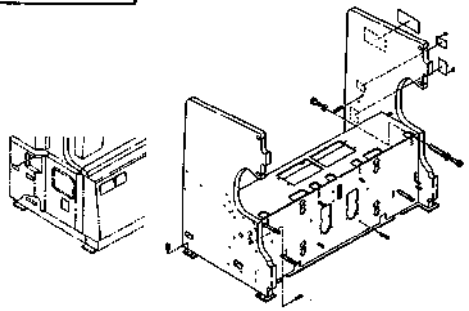
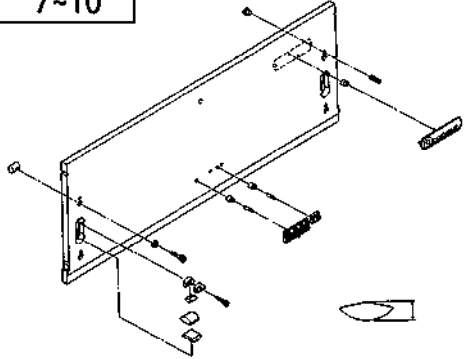
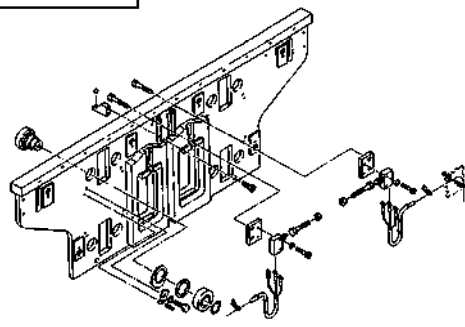
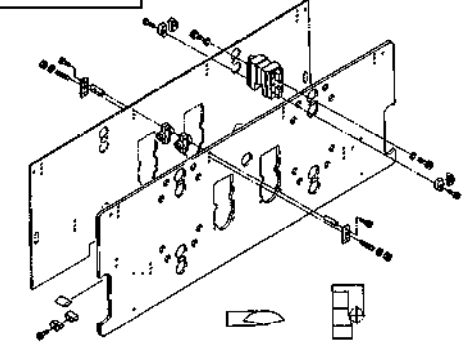
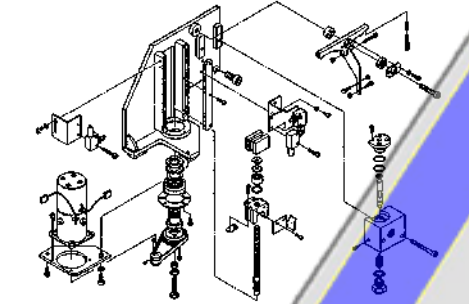
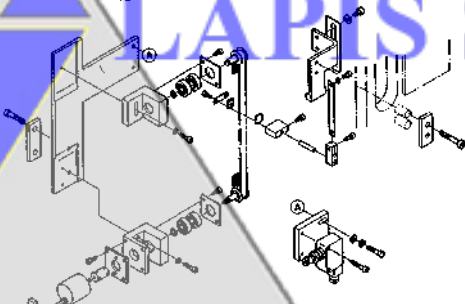
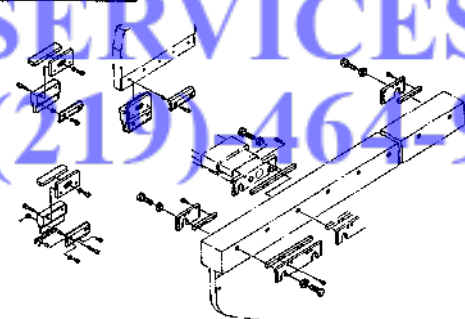
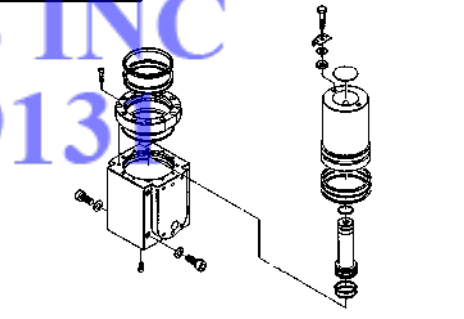
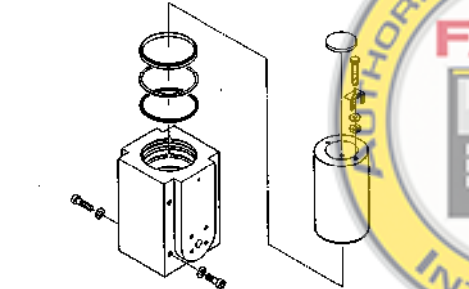
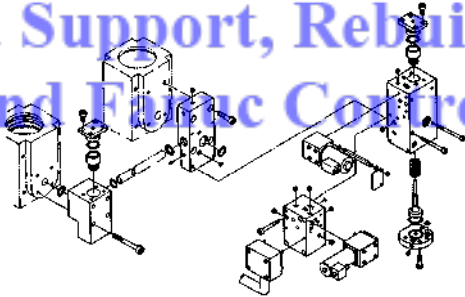
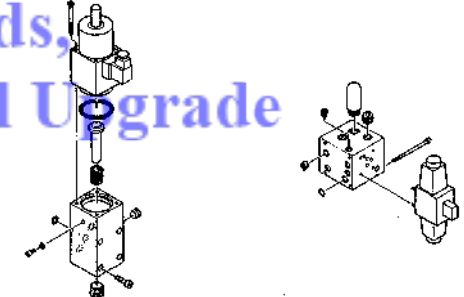
**Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade**

MACHINE COMPONENT





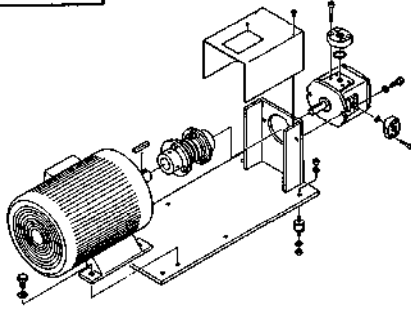
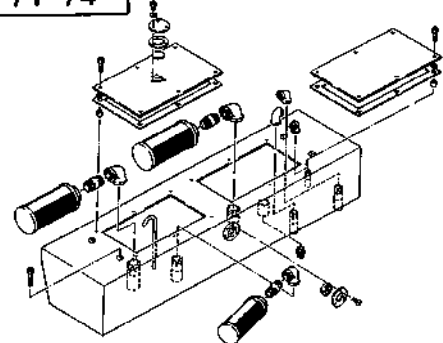
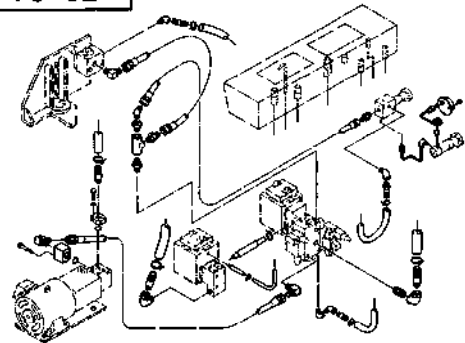
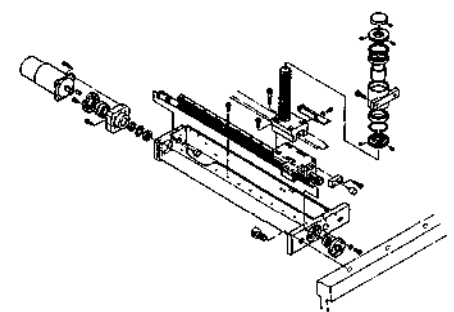
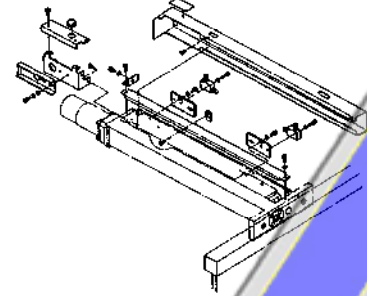
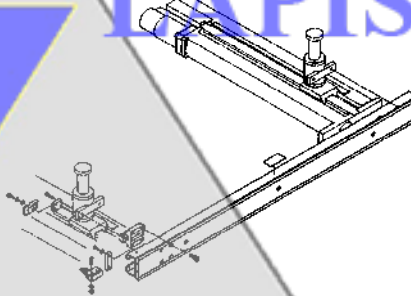
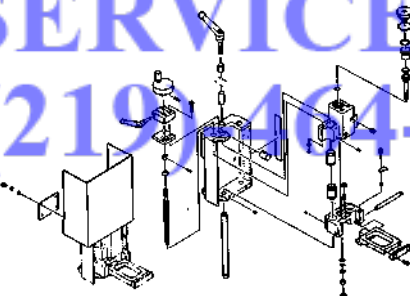
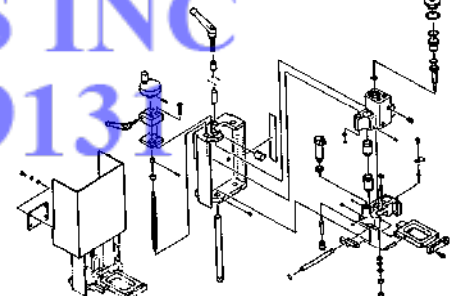
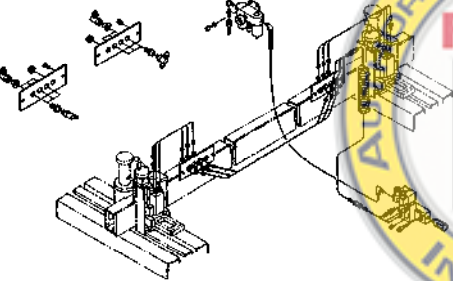
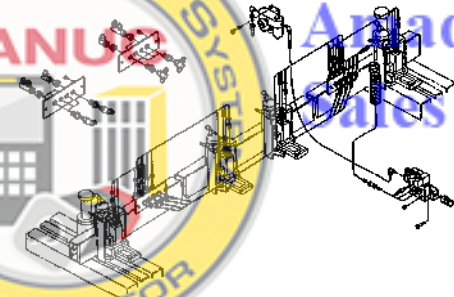
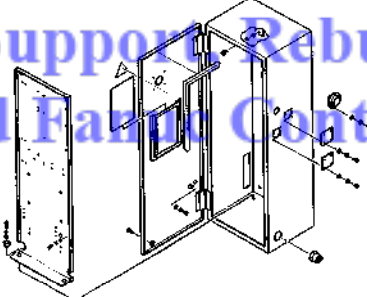
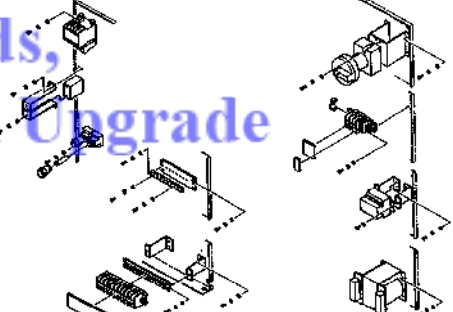
CONTENTS (1)

01 Frame 1~6 	02 Upper beam 7~10 	03 Lower beam 11~16 	04 Support plate 17~22 
05 Upper limit setting device 23~32 	06 Lower limit setting device 33~40 	07 Tool holder 41~46 	08 Main cylinder 47~50 
09 Sub cylinder 51~52 	10 Cut-off, Regulator valve 53~56 	11 Check valve 57~64 	12 Solenoid, Unload valve 65~68 

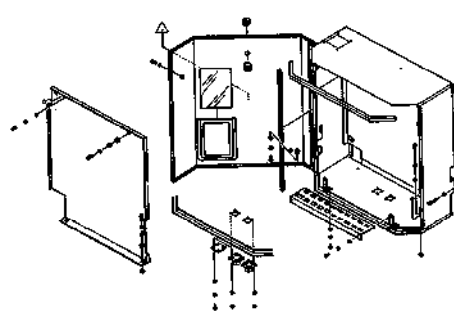
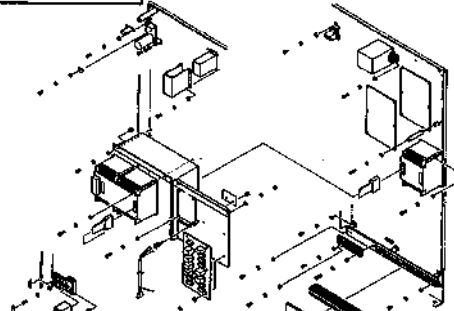
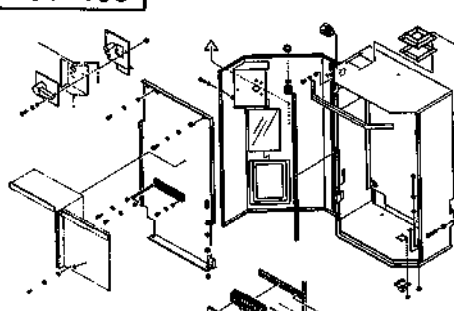
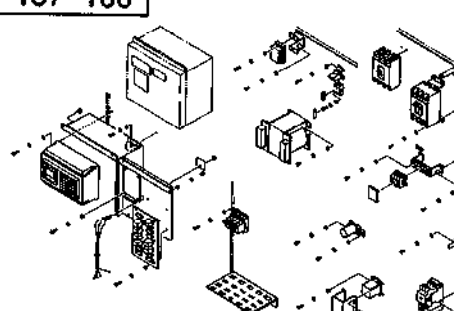
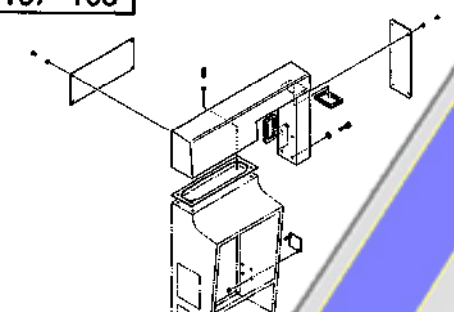
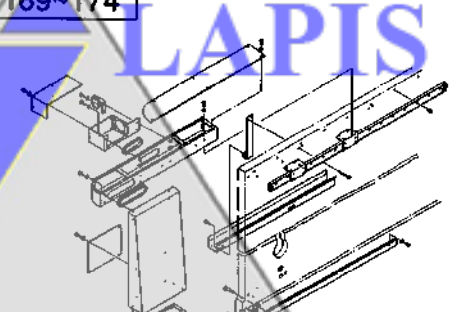
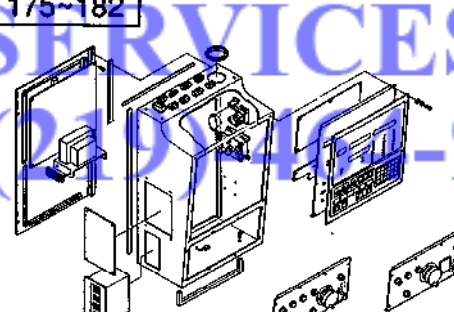
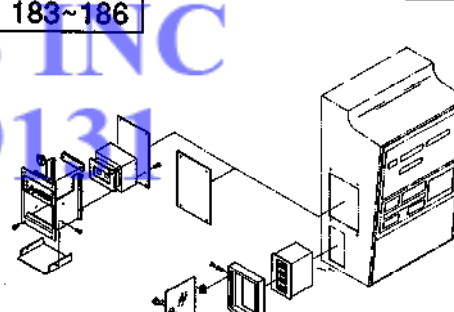
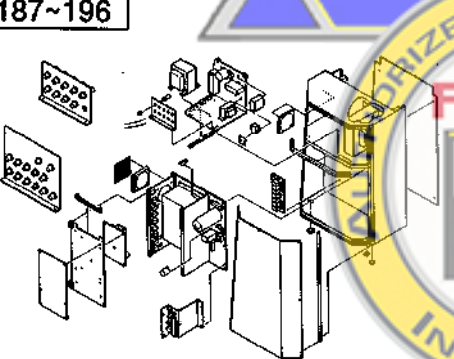
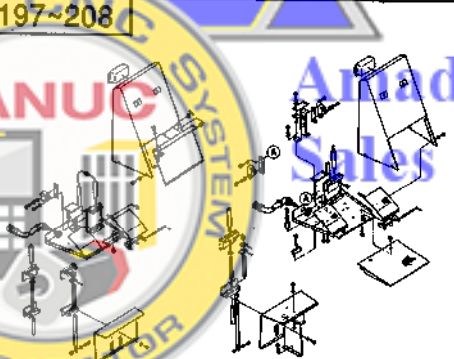
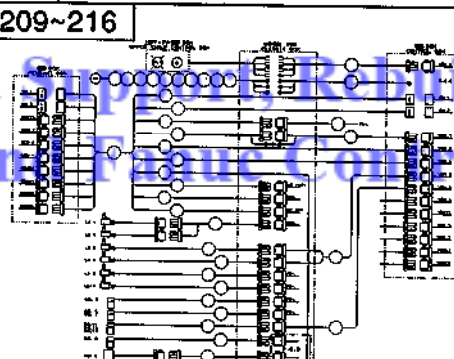
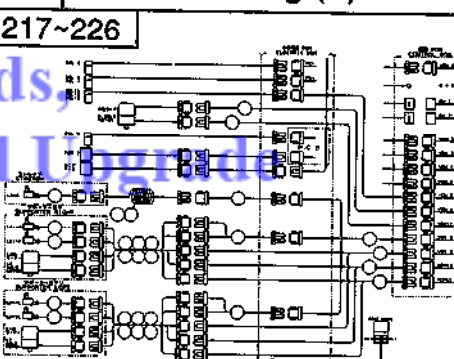
LAPIS SERVICES INC
(219) 464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

FANUC
INTEGRATOR

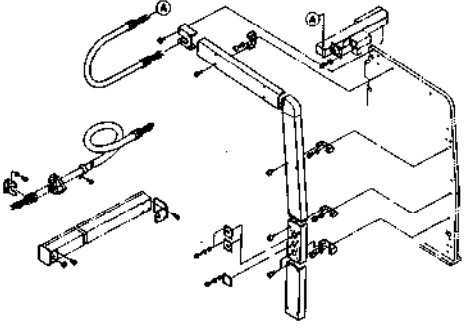
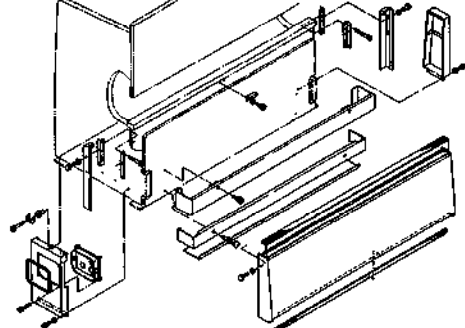
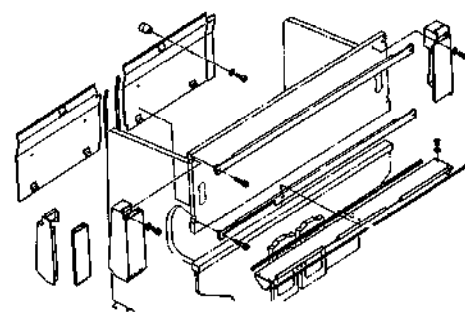
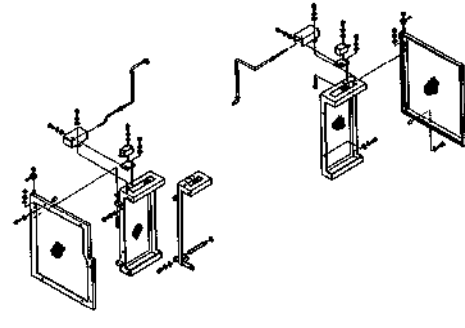
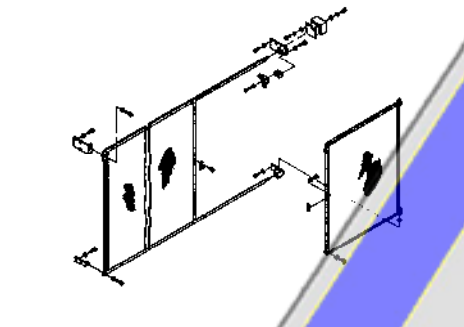
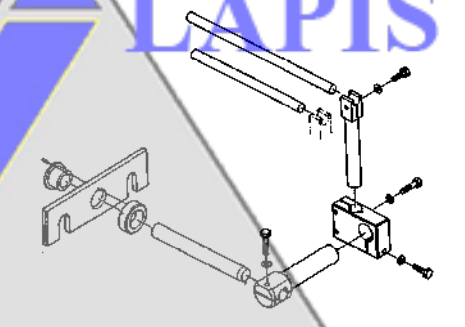
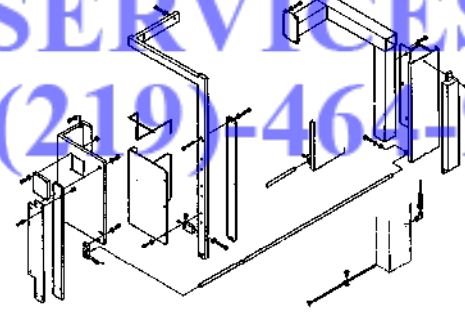
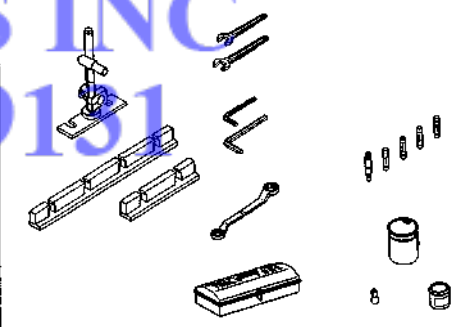
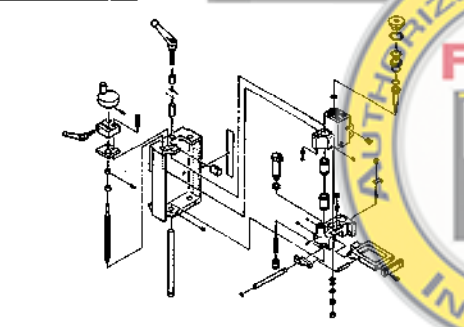
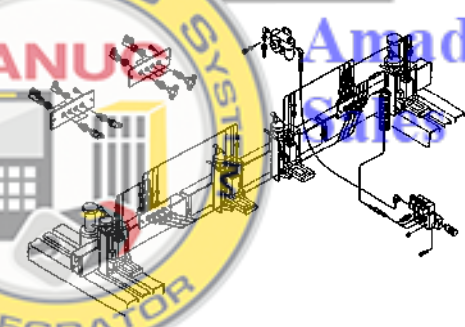
CONTENTS (2)

13 Hydraulic pump 69~70 	14 Hydraulic tank 71~74 	15 Hydraulic piping 75~82 	16 Support (1) 83~88 
17 Support (2) 89~92 	18 Stretch 93~96 	19 Work stopper 97~104 	20 Flip-up work stopper – EUR 105~112 
21 Pneumatic piping (1) – USA 113~118 	22 Pneumatic piping (2) – EUR 119~124 	23 Electric (1) – EUR 125~130 	24 Electric (2) – EUR 131~136 

CONTENTS (3)

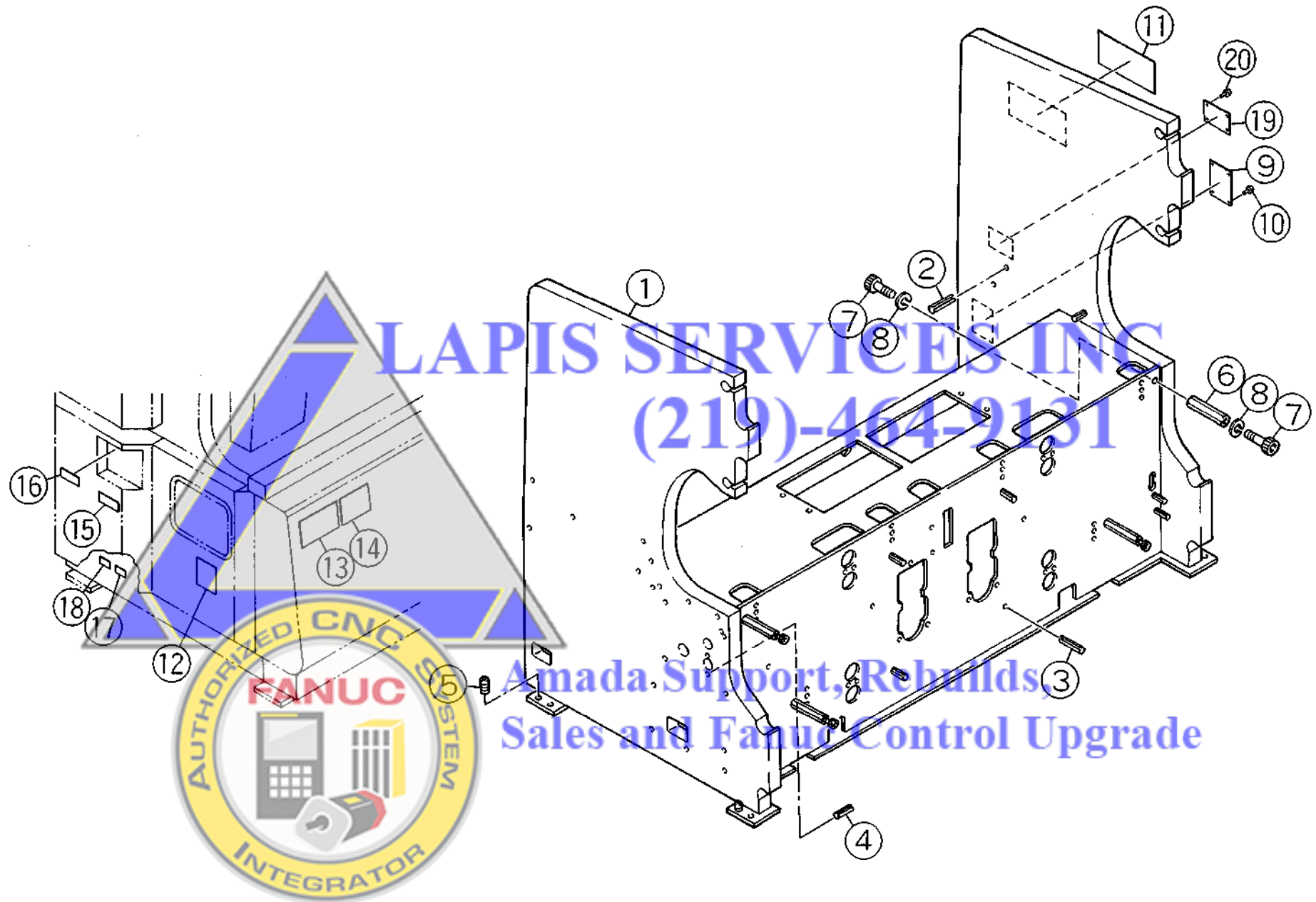
25 Electric (3) – EUR 137~142 	26 Electric (4) – EUR 143~150 	27 Electric (5) – USA 151~156 	28 Electric (6) – USA 157~166 
29 Arm – 8020 167~168 	30 Rail – 8025 169~174 	31 Operation box (1) 175~182 	32 Operation box (2) 183~186 
33 Control box 187~196 	34 Foot pedal 197~208 	35 Electric wiring (1) 209~216 	36 Electric wiring (2) 217~226 

CONTENTS (4)

37 Electric wiring (3) 227~232 	38 Cover (1) 233~238 	39 Cover (2) 239~244 	40 Side guard – EUR 245~252 
41 Rear guard – EUR 253~258 	42 Front support – EUR 259~262 	43 Photo-electric safety device – UK 263~272 	44 Standard accessories 273~276 
45 Flip-up work stopper – USA 277~284 	46 Pneumatic piping (3) – USA 285~290 	Amada Support, Rebuilds, Sales and Fanuc Control Upgrade	

Unit No. 01
Frame

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 01
Frame

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Frame					
	36320439	8020 EUR – GmbH	4139509		1		
	36320447	– UK	4139519		1		
	36320405	USA	4136114A		1		
	36320440	8025 EUR – GmbH	4139510		1		
	36320448	– UK	4139520		1		
	36320406	USA	4136115A		1		
2	36320421	Grooved pin		B- ϕ 10 x 110	4		
3	36320427	Grooved pin		G- ϕ 10 x 80	8		
4	36320424	Grooved pin		G- ϕ 10 x 50	2		
5	36320517	Set screw		M20 x 40 flat end	4		
6	36320415	Distance collar	4135463B		4		
7	36320522	Cap screw		M20 x 50	8		
8	36320529 (74302903)	Spring washer		M20	8		
9		Serial plate					
	36320039	8020 EUR – GmbH	4139637		1		
	36320048	– UK	4139646		1		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 01
Frame

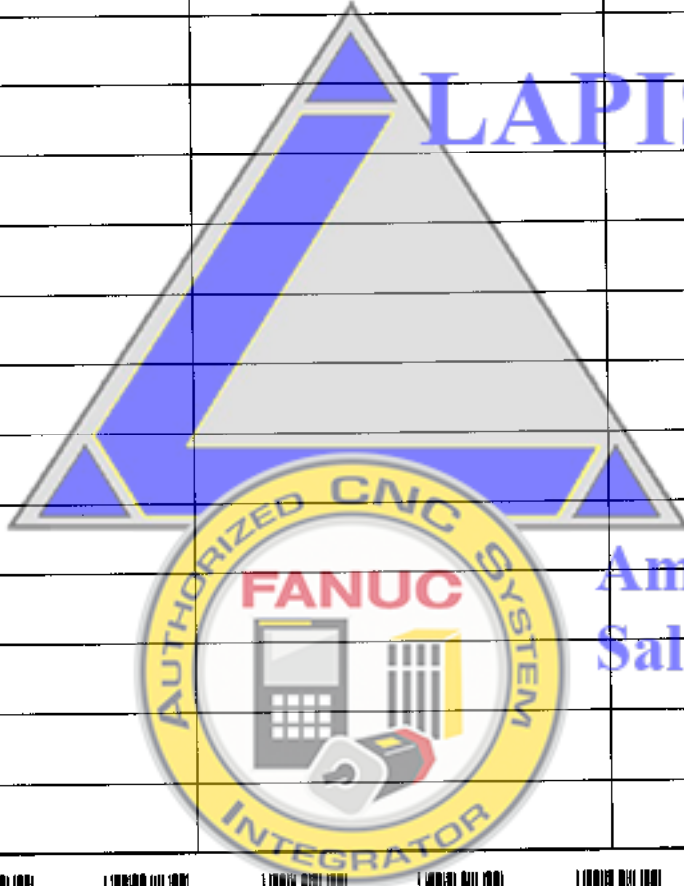
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36320205	USA	4171579		1		
	36320040	8025 EUR – GmbH	4139638		1		
	36320049	– UK	4139647		1		
	36320206	USA	4171580		1		
10	36320130	Drive screw rivet		Φ2.6 x 5	4		
11		Working chart					
	36320101	mm	4095658D		1		
	36320102	inch	4095659D		1		
12		Conversion table					
	36320107	EUR	4139209		1		
	36320106	USA	4138573		1		
13	36320115	Sticker (warning)	4138576		1		
14	36320117	Sticker (caution)	4138577A		1		
15	36320063	Sticker (voltage)	4170291A		1		EUR
16	36320113	Sticker (power source warning)	4139210		1		EUR
17	36320135	Sticker (foot pedal mark)	4139481A		1		EUR
18	36320136	Sticker (hands mark)	4139482A		1		EUR



Unit No. 01
Frame

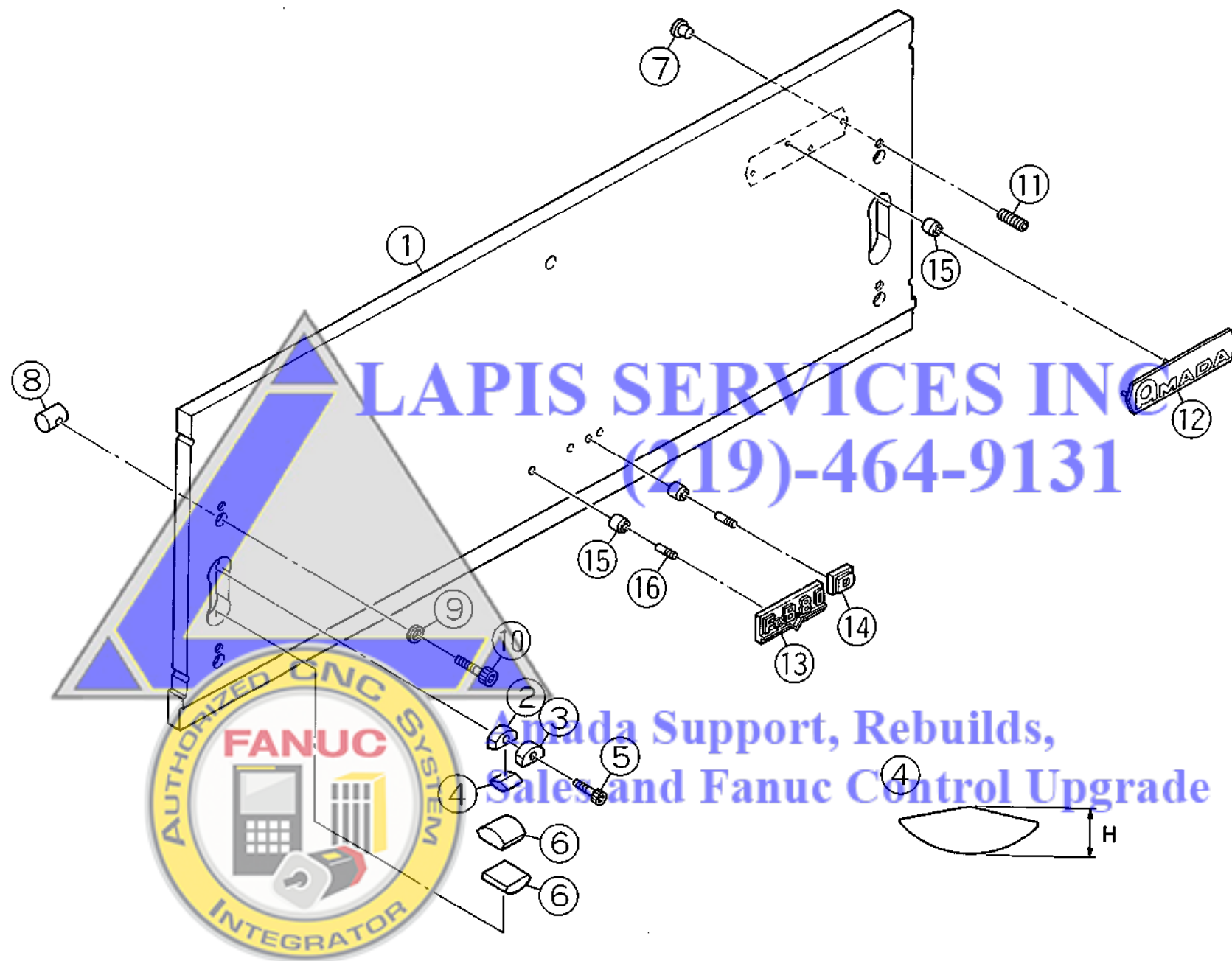
LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade



Unit No. 02
Upper beam

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 02
Upper beam

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Upper beam					
	36320805	8020	4136174D		1		
	36320806	8025	4136175E		1		
2	36320816	Lock piece	6085377		2		
3	36320818	Lock piece	6085367		2		
4		Lock piece	6085368		2		
	36121129	HH		H=22±0.042	(2)		
	36121130	H		H=21±0.042	(2)		
	36121131	O		H=20±0.042	(2)		
	36121132	L		H=19±0.042	(2)		
	36121133	LL		H=18±0.042	(2)		
5	36320913 (36113117)	Cap screw		M10 x 45	2		
6	36320825	Adjusting piece	6085369		4		
7	36320907	Push piece	4135114		4		
8	36320831	Connecting pin	4135098B		4		
9	36320902	Washer	4135115		4		
10	36320916	Cap screw		M20 x 90	4		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. 02
Upper beam

[illegible]

-10-





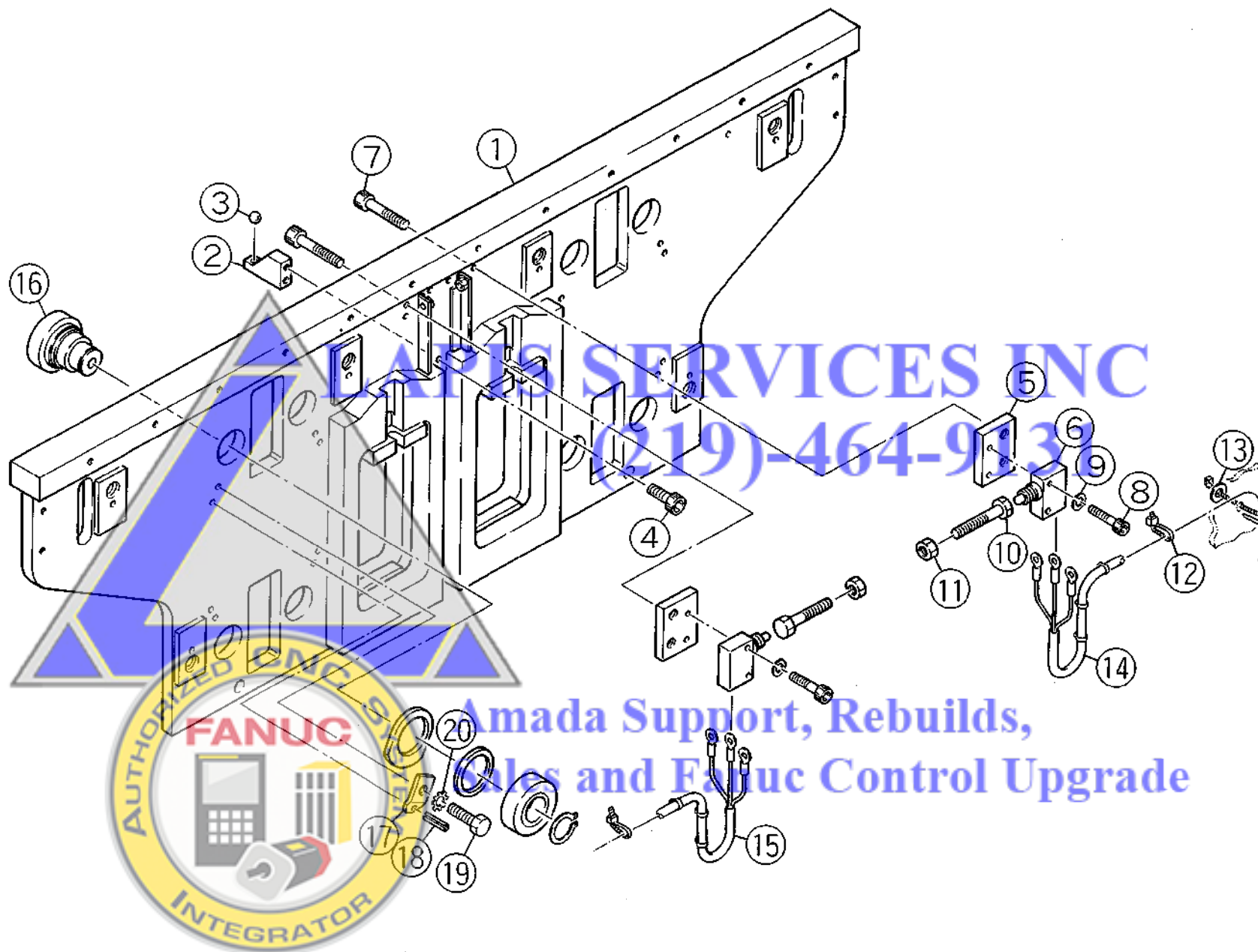
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 03
Lower beam

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **03**
Lower beam

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Lower beam					
	36321204	8020	4136192D		1		
	36321205	8025	4136193F		1		
2		Bracket					
	36321214	8020	4135358A		1		
	36321216	8025	4135747A		1		
3	36321222 (10315426)	Steel ball		13/32"	1		
4		Cap screw					
	36321226 (44552004)	8020		M16 x 35	2		
	36321227	8025		M16 x 40	2		
5		Limit switch holder					
	36322402	8020	4138942		2		
	36322403	8025	4138578A		2		
6	36322407	Limit switch		BZ-2RS55-T4-J (Yamatake-Hanewell)	2		
7		Cap screw					
	36322118 (74302829)	8020		M10 x 30	4		
	36322514 (74304913)	8025		M10 x 40	4		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuild,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **03**
Lower beam

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
8		Cap screw					
	36322512	8020		M4 x 30	4		
	36322511	8025		M4 x 28	4		
9	36322528 (44027327)	Spring washer		M4	4		
10		Adjusting screw					
	36322419	8020	4135328		2		
	36322520	8025		M6 x 40 all thread	2		
11		Nut					
	36322525 (74304422)	8020		M6 type-3	2		
	36322524	8025		M6 type-2	2		
12	36322413	Band		PLT2S	8020 8025		
13	36322531 (44027930)	Washer		M6	2		
14		Cable LCN-40A					
	36322422	8020	4138664		1		
	36322430	8025	4138643		1		
15		Cable LCN-40B					
	36322429	8020	4138665		1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

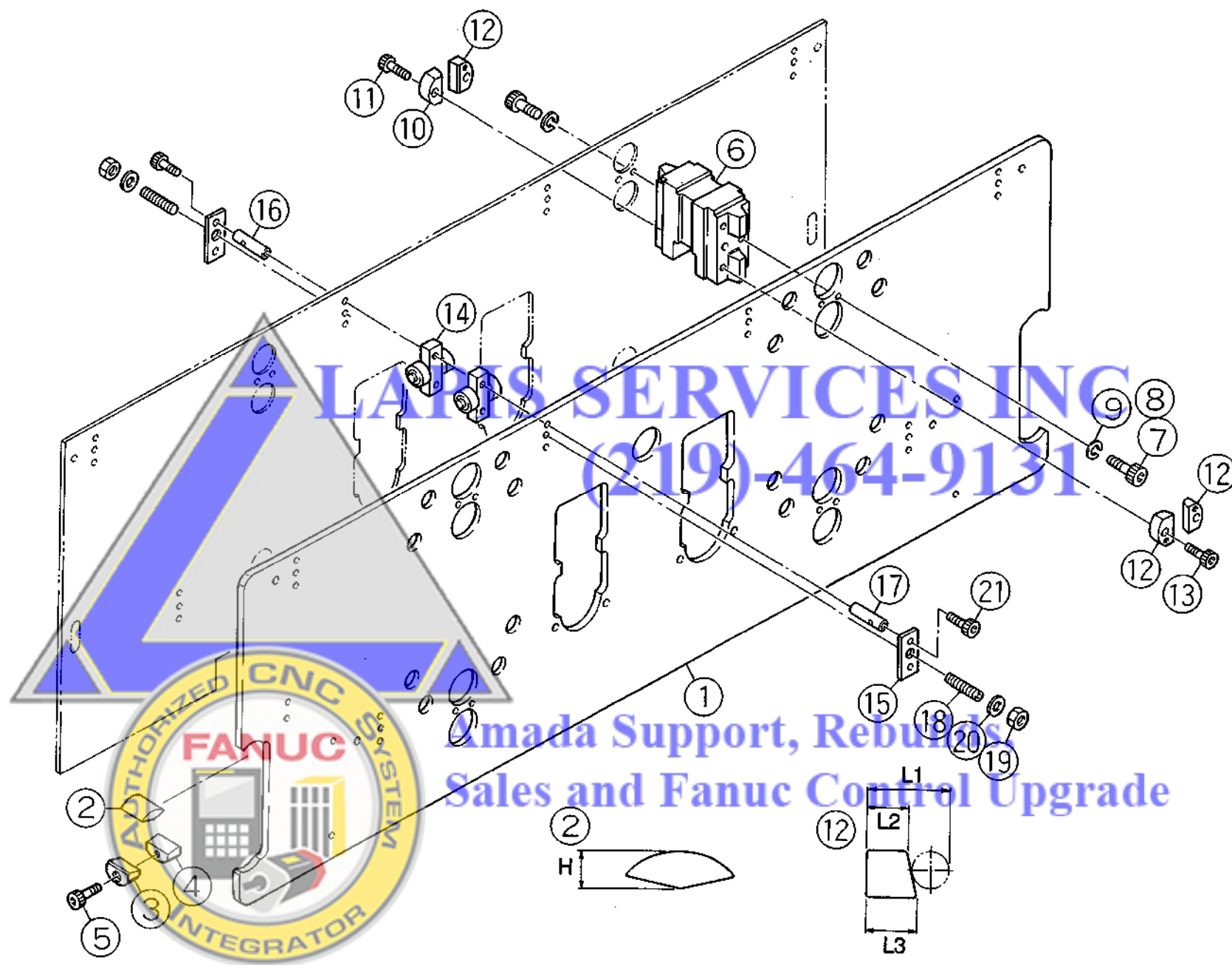
Unit No. 03
Lower beam

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36322423	8025	4138644		1		
16		R.L. guide roller ass'y					
	36321108	8020	7937052	(NTN)	8		
	36321109	8020	7937062	(NACHI)	8		
	36323703	8020	7937072	(KOYO)	8		
	36321110	8025	7937053	(NTN)	8		
	36321111	8025	7937063	(NACHI)	8		
	36321112	8025	7937073	(KOYO)	8		
17	36323712	Steel belt	4095918		8		
18		Spring pin					
	36323720 (74314915)	8020		Φ6 x 30	8		
	36323721	8025		Φ6 x 40	8		
19	36323729	Bolt		M14 x 30	8		
20	36323725	Toothed lock washer		M14	8		



Unit No. 04
Support plate

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **04**
Support plate

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Support plate					
	36321613	8020	4136212B		1		
	36321614	8025	4136213B		1		
2		Lock piece	6085368		4		
	36122819	HH		H=22±0.042	(4)		
	36122820	H		H=21±0.042	(4)		
	36122821	O		H=20±0.042	(4)		
	36122822	L		H=19±0.042	(4)		
	36122823	LL		H=18±0.042	(4)		
3	36320818	Lock piece	6085367		4		
4	36320816	Lock piece	6085377		4		
5	36320913 (36113117)	Cap screw		M10 x 45	4		
6	36321902	Guide post	4172184A		4		
7	36322121	Cap screw		M16 x 45	8		
8	36321227	Cap screw		M16 x 40	8		
9	36322114 (74302902)	Spring washer		M16	16		
10	36322016	Lock piece (A)	4135613		4		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 04
Support plate

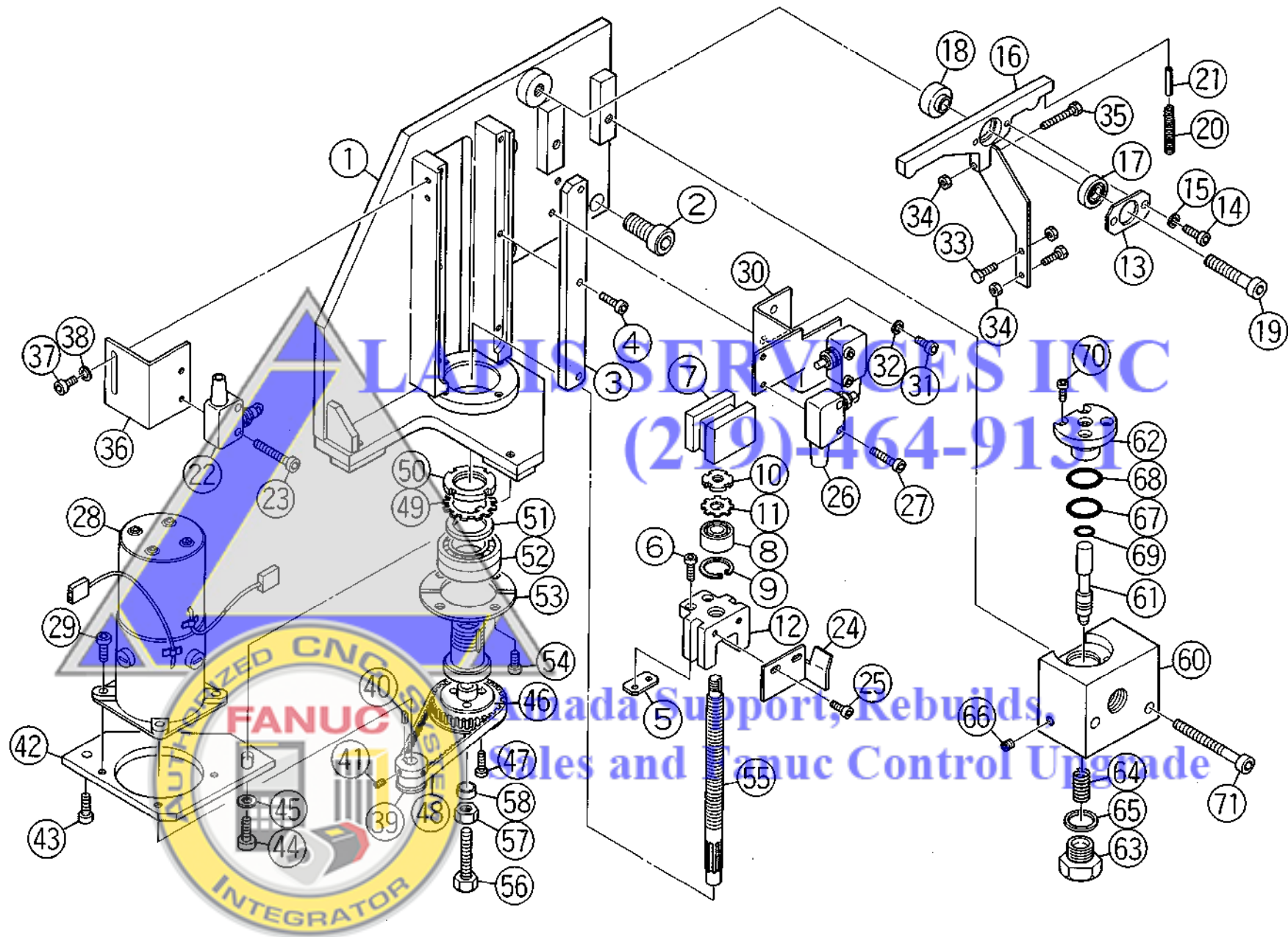
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
11	36323010 (74302821)	Cap screw		M12 x 45	4		
12		Lock piece (B)	4135614A		28		
	36322042	(A)		L1 L2 L3 44.15 x 21.8 x 27.11	(28)		
	36322043	(B)		44.55x22.2x27.51	(28)		
	36322044	(C)		44.95x22.6x27.91	(28)		
	36322045	(D)		45.35x23.0x28.31	(28)		
	36322046	(E)		45.75x23.4x28.71	(28)		
13	36323010 (74302821)	Cap screw		M12 x 45	28		
14	36323912	Fore-Aft guide roller	7937004A	(NTN)	12 set		
15	36323901	Plate	4135145A		12		
16	36323906	Shaft	4135146C		12		
17	36323907	Shaft	4135790C		12		
18		Set screw					
	36323921	8020		M16 x 75 flat end	12		
	36323920	8025		M16 x 70 flat end	12		
19	36323925 (10001515)	Nut		M16	12		
20	36323928 (74314206)	Washer		M16	12		



Unit No. **04**
Support plate

[illegible]

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **05**
Upper limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36322803	Setting plate	4130770D		1		
2	36323011 (59157426)	Cap screw		M16 x 30	3		
3	36322805	Guide	4130761A		2		
4	36327133 (74302815)	Cap screw		M6 x 20	6		
5	36322910	Piece	4135446		1		
6	36323012 (74302814)	Cap screw		M6 x 14	2		
7	36322815	Shaft support	4135123B		1		
8	36322914	Ball bearing		#3200	1		
9	36322931	Snap ring		RTW-30	1		
10	36322926	Crown nut		AN00	1		
11	36322927	Crown washer		AW00	1		
12	36322819	Nut	4130765B		1		
13	36322828	Cap	4135128		1		
14	36323012	Cap screw		M6 x 14	2		
15	36323020	Spring washer		M6 type 2	2		
16	36322824	Lever	4135125D		1		
17	36322915	Ball bearing		#6001ZZ	1		



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36322822	Collar	4135129A		1		
19	36323010 (74302821)	Cap screw		M12 x 45	1		
20	36322934	Coil spring		AS-D 10 x 16 x 40	1		
21	36323001 (10565802)	Spring pin		Φ5 x 30	1		
22	36322919	Limit switch		SL1-A (Yamatake-Haneywell)	1		
23	36322510 (74314402)	Cap screw		M4 x 25	2		
24	36322902	Bracket	4130762C		1		
25	36323012 (74302814)	Cap screw		M6 x 14	2		
26	36322920	Limit switch		SL1-H (Yamatake-Haneywell)	2		
27	36322510 (74314402)	Cap screw		M4 x 25	4		
28	36322922	Servo motor	7975063	SM80T-251E01 (Sanyo)	1		
29	36327133 (74302815)	Cap screw		M6 x 20	4		
30	36322901	Bracket	4135130B		1		
31	36323012 (74302814)	Cap screw		M6 x 14	2		
32	36323020	Spring washer		M6 type 2	2		
33	36323015	Bolt		M6 x 20	2		
34	36323024 (74309931)	Nut		M6 type 1	3		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **05**
Upper limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36322520	Bolt		M6 x 40 all thread	1		
36	36322906	Angle	4130766C		1		
37	36323012 (74302814)	Cap screw		M6 x 14	2		
38	36323020	Spring washer		M6 type 2	2		
39	36345008	Pulley (S)	7952537	GT5-10-16 (Mitsuboshi)	1		
40	36323005	Key		4 x 4 x 20 double round	1		
41	36345625 (86239303)	Set screw		M5 x 0.8 x 7 (NTN)	2		
42	36345029	Motor setting plate	6084751		1		
43	36331713 (21415514)	Cap screw		M8 x 25	1		
44	36331114 (38124012)	Cap screw		M10 x 25	1		
45	36327616	Washer		M10 polish	1		
46	36322822	Pulley (L)	4130769A		1		
47	36327133 (74302815)	Cap screw		M6 x 20	3		
48	36345614	Timing belt		T5-10-80 (Mitsuboshi)	1		
49	36322929 (10310733)	Crown washer		AW06	1		
50	36322928 (58134502)	Crown nut		AN06	1		
51	36322831	Collar	4130768	STKM13A	1		



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
52	36322916	Ball bearing		#7006CDB (NTN)	1		
53	36322813	Retainer	4130767A		1		
54	36323013	Cap screw		M8 x 16	4		
55	36322808	Screw	7937032.01	(THK)	1		
56	36323016	Bolt		M10 x 50 all thread	1		
57	36323025 (74314521)	Nut		M10 type 1	1		
58	36322834	Pulley collar (L)	4131966		1		
59	36325301	Upper limit valve ass'y	4135191A		1 set		
60	36325307	Valve body	4122110B		1		
61	36325310	Spool	4135192A		1		
62	36325313	Valve seat	4122112A		1		
63	36325316	Cap	4044546A		1		
64	36325319	Pressure spring	4044547A		1		
65	36325323	Seal washer		WF-22 (NOK)	1		
66	36325326 (58147621)	Plug		PT 1/8"	2		
67	36325329 (36005714)	O-ring		1PB-25	1		
68	36325330 (36111006)	O-ring		1PB-26	1		

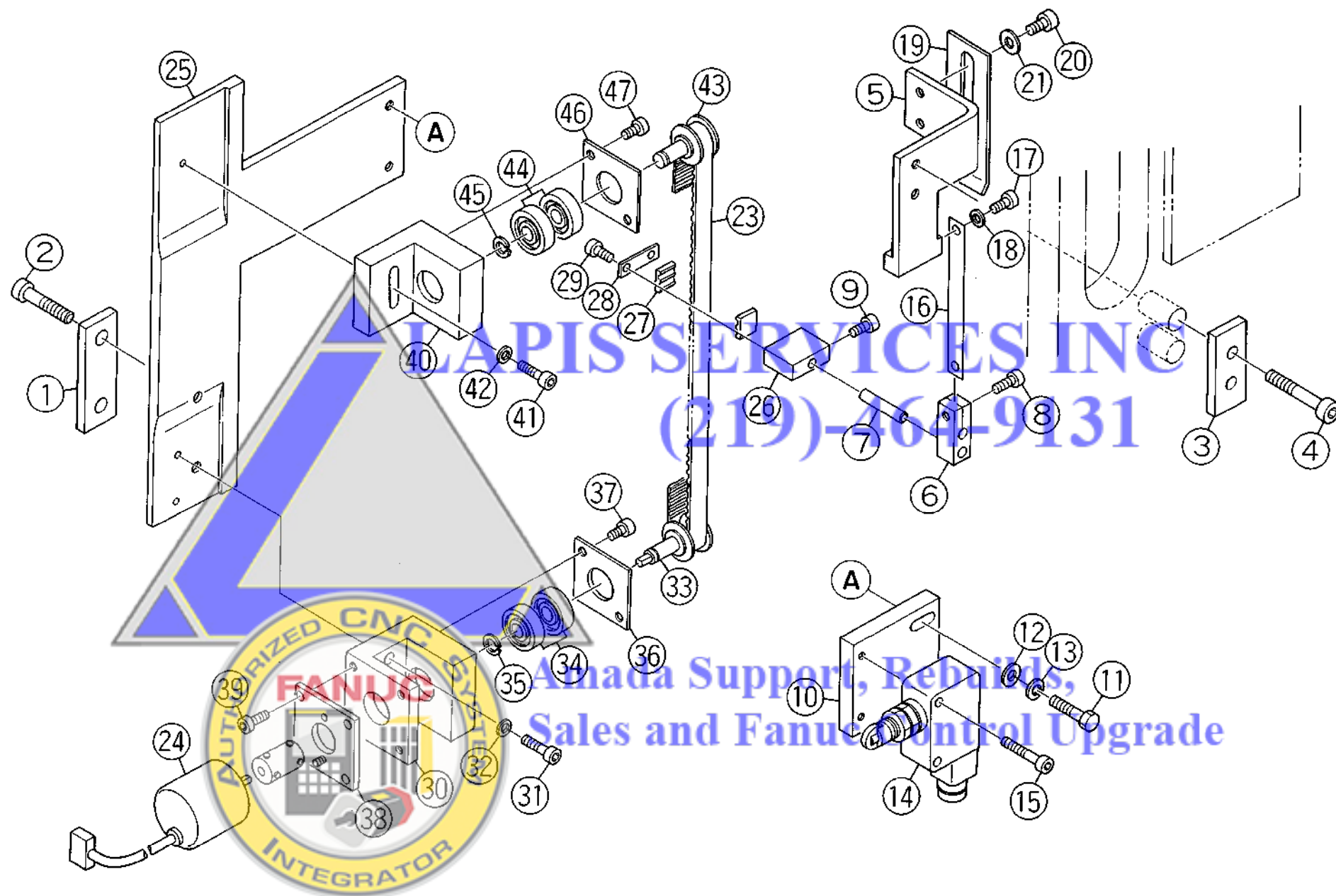


Unit No. **05**
Upper limit setting device

[illegible]

Unit No. 06
Lower limit setting device

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 06
Lower limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36323313	Washer	4135184A		1		
2	36323421 (74304905)	Cap screw		M6 x 35	2		
3	36323314	Washer	4135187A		1		
4		Cap screw					
	36323417 (74304904)	8020		M6 x 30	2		
	36323418 (44446227)	8025		M6 x 40	2		
5	36323507	Dog bracket	4172480A		1		
6	36323515	Connecting block	4172993		1		
7		Straight pin					
	36323528	8020		B-Φ5h7 x 26	1		
	36323529	8025		B-Φ5h7 x 20	1		
8	36323414 (74314401)	Cap screw		M4 x 10	1		
9	36323414 (74314401)	Cap screw		M4 x 10	1		
10	36323521	L.S. plate	4171107A		1		
11	36323424	Bolt		M6 x 16	2		
12	36322531 (44027930)	Washer		M6	2		
13	36323431 (44027928)	Spring washer		M6	2		

Amada Support, Rebuild,
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 06
Lower limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36323401 (36180620)	Limit switch		SL1-A (Yamatake-Hanewell)	1		
15	36323412	Cap screw		M4 x 22	2		
16	36323514	Connecting plate	4171110A		1		
17	36323414 (74314401)	Cap screw		M4 x 10	1		
18	36323430	Washer		M4 polish	1		
19	36322501	Dog	4171109B		1		
20	36323416 (74302812)	Cap screw		M6 x 10	2		
21	36322531 (44027930)	Washer		M6	2		
22		Encoder ass'y					
	36323535	EUR	4172817A		1 set		
	36323536	USA	4172879		1 set		
23	36323602	Timing belt		UT195T-80-9.5 MM type (Mitsuboshi)	1		
24		Rotary encoder					
	36323542	EUR	7935090	(Fuji)	1		
	36323543	USA	7935091	(Fuji)	1		
25	36323538	Encoder base	4171111A		1		
26	36323618	Belt block	4171113B		1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 06
Lower limit setting device

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
27	36323619	Belt	4172484		2		
28	36323625	Plate	4172483		1		
29	36323415	Cap screw		M4 x 8	2		
30	36323556	Main housing	4171118A		1		
31	36323412	Cap screw		M4 x 14	2		
32	36324315 (74300510)	Washer		M4	2		
33		Timing pulley					
	36323550	EUR	4171119	(Mitsuboshi)	1		
	36323552	USA	4170842	(Mitsuboshi)	1		
34	36323608	Miniture ball bearing		#607ZZ	2		
35	36323612	Snap ring		STW-7	1		
36	36323562	Bearing cover	4171114A		1		
37	36323415	Cap screw		M4 x 8	2		
38	36323546	Flange	4171117A		1		
39	36323415	Cap screw		M4 x 8	4		
40	36323557	Sub housing	4170841A		1		
41	36323412	Cap screw		M4 x 14	1		



Unit No. **06**
Lower limit setting device

[illegible]

-40-





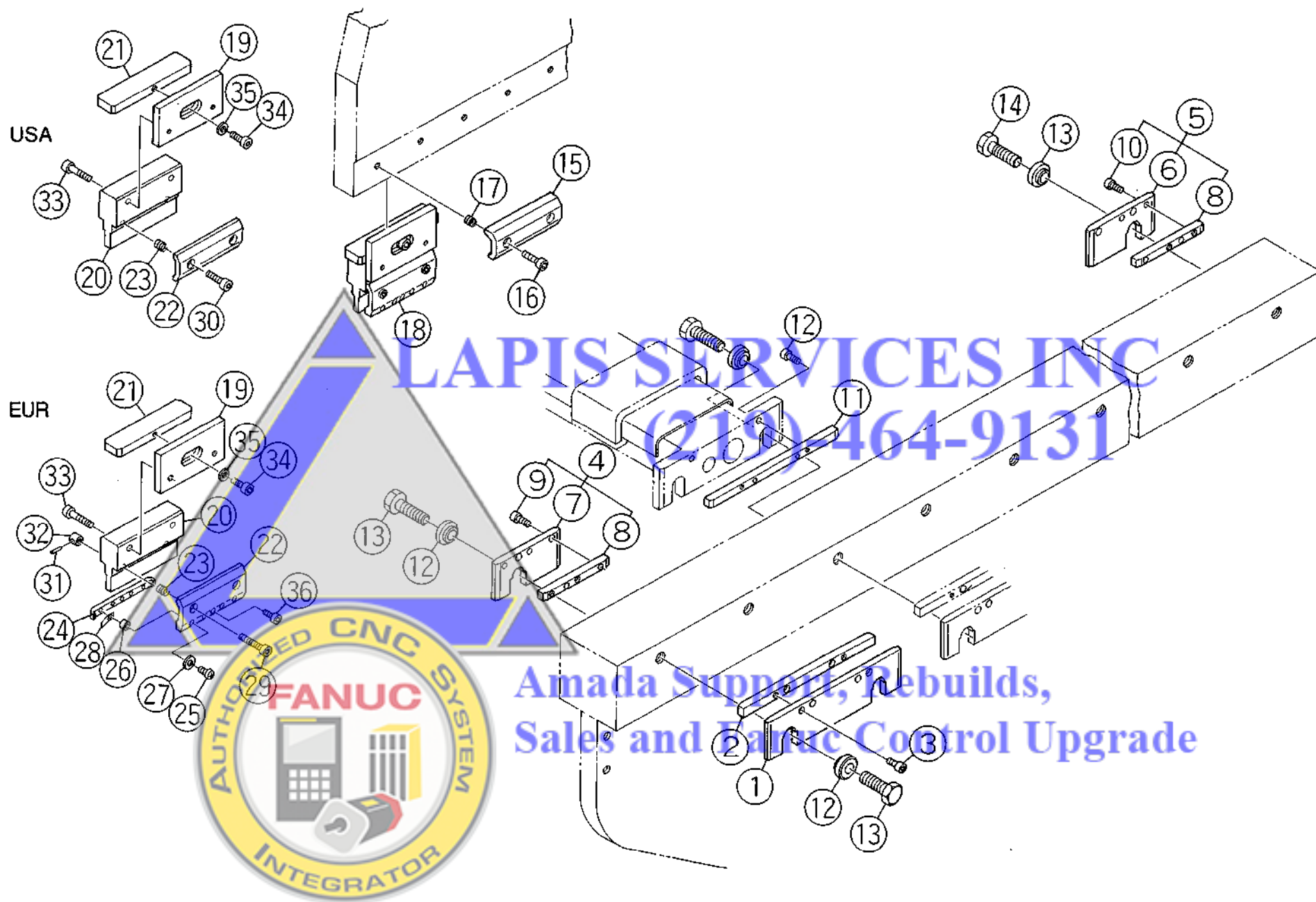
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 07
Tool holder

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 07
Tool holder

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36324102	V-shaped clamp plate	51.17030.1	8020 8025	7 9		
2	36324119	Lock plate	51.57045.1	8020 8025	7 9		
3		Cap screw					
	36323931 (74307602)	8020		M6 x 16	14		
	36323009 (74300604)	8025		M6 x 15	18		
4	36324133 (36180704)	Die clamp plate (L) ass'y	4161378		1 set		
5	36324134 (36180710)	Die clamp plate (R) ass'y	4161379		1 set		
6	36324105 (36128751)	Die clamp plate (L)	4161380		1		
7	36324106 (36128752)	Die clamp plate (R)	4161381		1		
8	36324122 (36128760)	Lock plate	4161382		2		
9	36323009 (74300604)	Cap screw		M6 x 15	2		
10	36323931 (74307602)	Cap screw		M6 x 16	2		
11	36324120	Lock plate	564027A		2		
12	36323931 (74307602)	Cap screw		M6 x 16	4		
13	36347733	Washer	7937122	8020 8025	16 20		
14	36324215	Bolt		M20 x 50 8020 8025	16 20		
15	36347914	Clamp plate	4161303A	8020 8025	10 12		

LAPIS SERVICES INC
(219)-464-9151
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **07**
Tool holder

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36324219 (74304918)	Cap screw		M10 x 35	8020 20 8025 24		
17	36324111	Clamp plate spring	51.44030.2		8020 20 8025 24		
18		Distance plate ass'y					
	36324203	EUR	4171203B		8020 10 set 8025 12 set		
	36324204	USA	4099949		8020 10 set 8025 12 set		
19	36324151	Distance plate	51.57072.2D		8020 10 8025 12		
20	36324154	Punch clamp distance plate	4098393		8020 10 8025 12		
21	36324157	Adjusting piece	4099950		8020 10 8025 12		
22		Clamp plate					
	36324109	EUR	4171204		8020 10 8025 12		
	36324107	USA	51.17028.1		8020 10 8025 12		
23	36324111	Clamp plate spring	51.44030.2		8020 20 8025 24		
24	36324140	Pawl	4171205		8020 10 8025 12		EUR
25	36324324	Techno-head screw			8020 40 8025 48		EUR
26	36324236	Collar	4171206		8020 40 8025 48		EUR
27	36324316	Washer			8020 40 8025 48		EUR
28	36324243	Plate spring	4171208		8020 40 8025 48		EUR

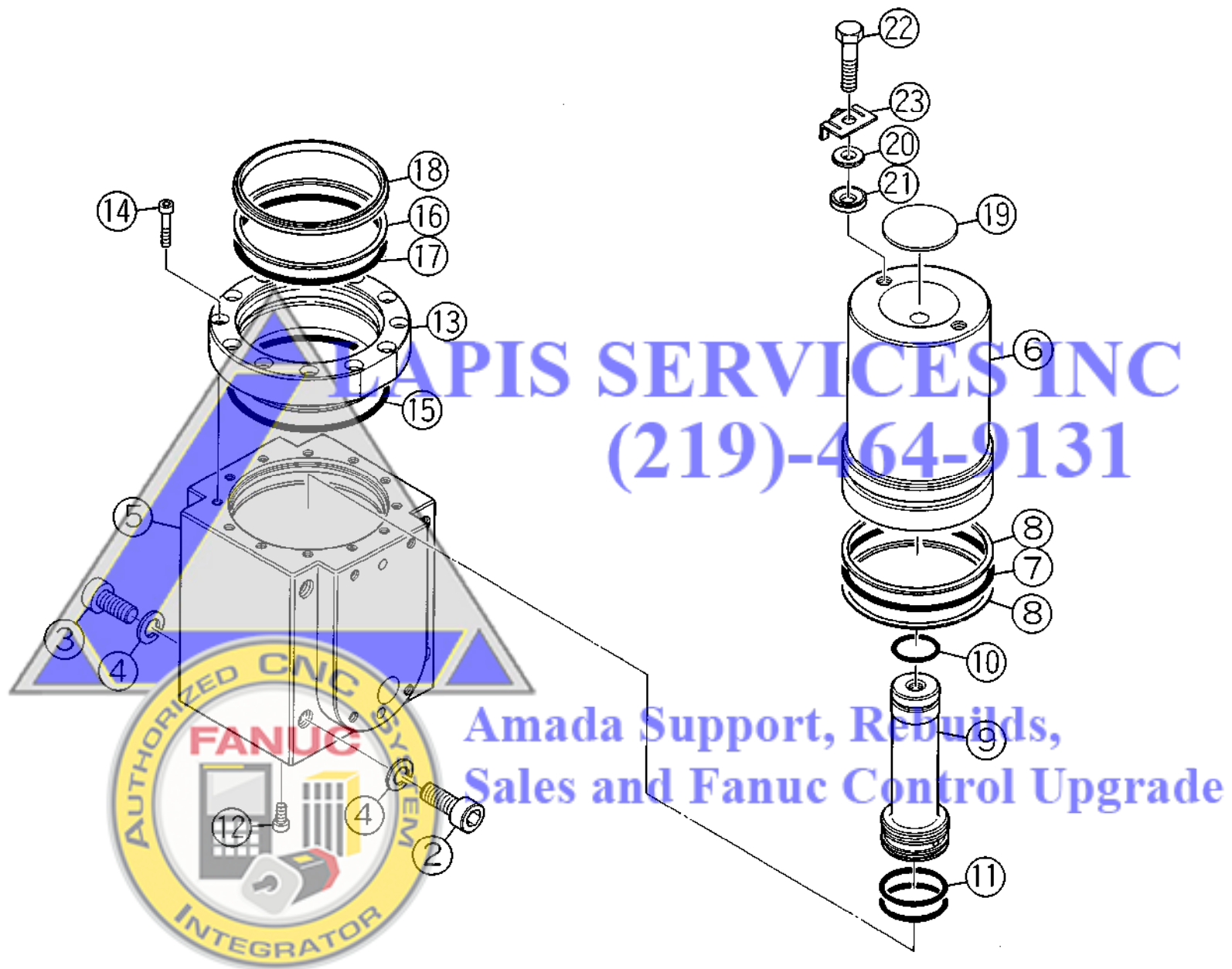


Unit No. 07
Tool holder

[illegible]

Unit No. 08
Main cylinder

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 08
Main cylinder

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36324503	Main cylinder ass'y	4138918		1 set		
2	36322123	Cap screw		M20 x 45	2		
3	36320523	Cap screw		M20 x 55	2		
4	36320529 (74302903)	Spring washer		M20	4		
5	36324512	Cylinder	4136259		1		
6	36324520	Piston	4136262A		1		
7	36324622	O-ring		1BP-140	1		
8	36324628	Back-up ring		T2P-140	2		
9	36324524	Inner plunger	4136265C		1		
10	36324618	O-ring		1BP-55	1		
11	36324624	O-ring		G-60	2		
12	36324723 (44028704)	Cap screw		M10 x 20	4		
13	36324531	Cylinder cap	4136268		1		
14	36324724	Cap screw		M10 x 40 strength 12.9	12		
15	36324621	O-ring		1BP-135	1		
16	36324630	Back-up ring		T3P-135	1		
17	36324623	O-ring		1BP-150	1		



Unit No. **08**
Main cylinder

[illegible]



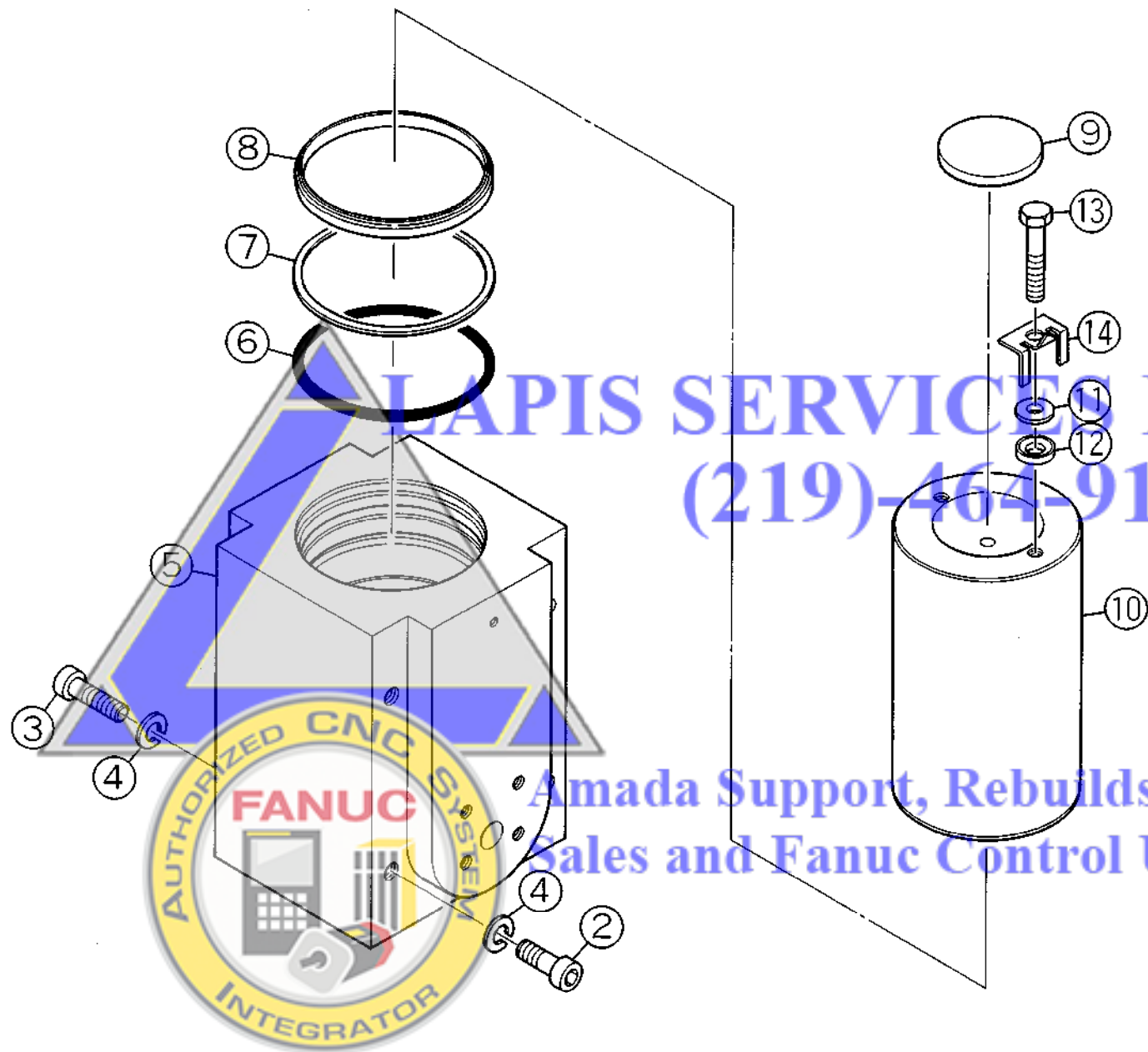
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 09
Sub cylinder

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

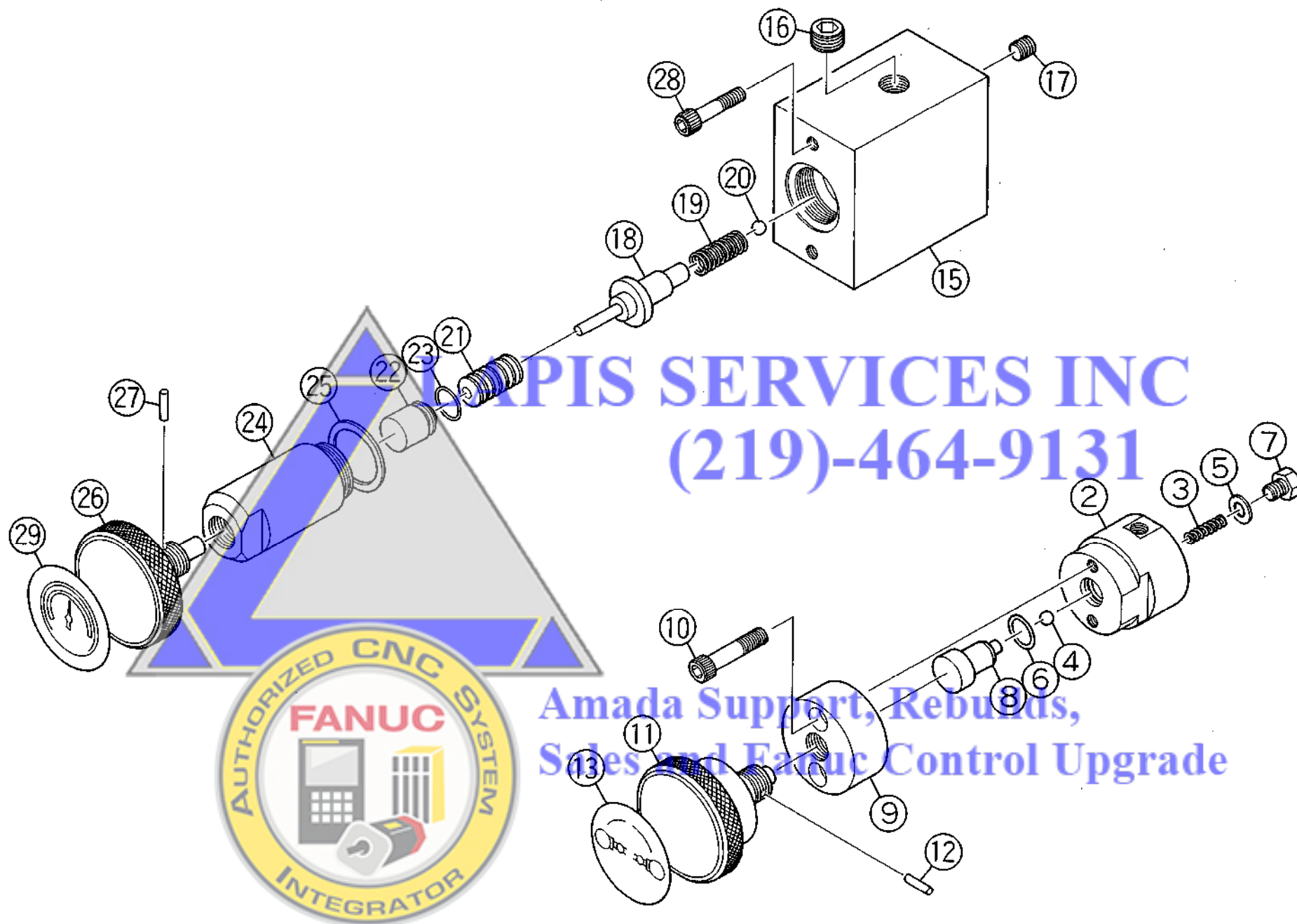
Unit No. 09
Sub cylinder

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36325001	Sub cylinder ass'y	4138919		1 set		
2	36322123	Cap screw		M20 x 45	2		
3	36320523	Cap screw		M20 x 55	2		
4	36320529 (74302903)	Spring washer		M20	4		
5	36325009	Cylinder	4135011D		1		
6	36324623	O-ring		1BP-150	1		
7	36325025	Back-up ring		T3P-150	1		
8	36325029	Dust seal		SDR-150	1		
9	36324601	Spherical support	4043739		1		
10	36325014	Inner plunger	4135023B		1		
11	36324606	Spherical washer	4135340		2		
12	36324607	Spherical washer	4135341		2		
13	36324720	Bolt		M14 x 65 strength 10.9	2		
14	36324612	Retainer	4135876A		2		



Unit No. 10
Cut-off, Regulator valve

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 10
Cut-off, Regulator valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36325605	Cut-off valve ass'y	4136284		1 set		
2	36325612	Valve body	4135910		1		
3	36325708	Spring	50.44046.3		1		
4	36325712	Steel ball		Φ7	1		
5	36325716	Rubber ring		A8	1		
6	36325719 (36110519)	O-ring		1AP 15	1		
7	36325722	Bolt		M8 x 10	1		
8	36325619	Push rod	4135911		1		
9	36325631	Retainer	4135912A		1		
10	36325730 (74304910)	Cap screw		M8 x 55	2		
11	36325628	Knob	4135913A		1		
12	36325725	Nylon rod		Φ4 x 18	1		
13	36324701	Legend plate (cut-off v.)	4135229		1		
14	36326702	Regulator ass'y	4136296B		1 set		
15	36326707	Regulator body	4135029		1		
16	36326108	Plug		PT 3/8"	1		
17	36326106 (58147621)	Plug		PT 1/8"	1		



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36326718	Spool	4135030		1		
19	36326729	Coil spring		AS-D-11.6 x 1.2 x 32	1		
20	36326732	Steel ball		Φ9/32"	1		
21	36326801	Cone disk spring		Φ18 x Φ6.5 x 1t	14		
22	36326721	Push piece	4135116		1		
23	36326813 (36110501)	O-ring		1AP 16	1		
24	36326715	Screw guide	4048576D		1		
25	36326805	Affixed seal		KP-C-06	1		
26	36326725	Knob	4135908B		1		
27	36326809	Nylon rod		Φ4 x 18	1		
28	36326825 (74309806)	Cap screw		M8 x 70	2		
29	36326711	Legend plate (regulator)	4135235		1		



LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 11
Check valve

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 11
Check valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Check valve ass'y					
	36326005	EUR	4139059A		1 set		
	36326002	USA	4136286C		1 set		
2		Valve body (1)					
	36326011	EUR	4139057		1		
	36326007	USA	4135102C		1		
3	36326127	Cap screw		M10 x 120	EUR 3 USA 4		
4	36326132	Cap screw		M10 x 110	EUR 1		
5	36326107 (58141008)	Plug		PT 1/4"	USA 4		
6	36326108 (44552306)	Plug		PT 3/8"	EUR 4 USA 3		
7	36326034	Spool	4135869		1		
8	36326101	Spring	4135105		1		
9	36326017	Cap (1)	4135103A		1		
10	36326118 (36110632)	O-ring		1BP-16	2		
11	36326122	O-ring		1BP-46	1		
12	36326107 (58141008)	Plug		PT 1/4"	2		
13	36322119 (74304917)	Cap screw		M12 x 40	5		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 11
Check valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36326014	Check valve		S30PK-K0.1 (Kawasaki)	1		
15	36326018	Cap (2)	4135961		1		
16	36326121	O-ring		1BP-38	1		
17	36326128	Cap screw		M12 x 25	4		
18	36326021	Counterbalance valve	7951370	(Uchida)	1		
19		Valve ass'y					
	36326025	EUR - Shut off valve		LVS-2-04G -AID-TB-6F (Fuji Eng.)	1		
	36326026	USA - Selector valve	7936044A	(Uchida)	1		
20	36326030	Block	4135109B		1		
21	36326129	Cap screw		M14 x 55	4		
22	36326107 (58141008)	Plug		PT 1/4"	2		
23	36326106	Plug		PT 1/8"	1		
24	36326120	O-ring		1BP-34	2		
25	36326117 (38123327)	O-ring		1BP-12	4		
26	36326119 (38123330)	O-ring		1BP-32	2		
27	36326009	Valve body (2)	4135108B		1		
28	36326130	Cap screw		M14 x 120	4		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 11
Check valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
29	36326120	O-ring		1BP34	1		
30	36326119 (38123330)	O-ring		1BP32	2		
31	36326014	Check valve		S30PK-K0.1 (Kawasaki)	1		
32	36326018	Cap (2)	4135961		1		
33	36326121	O-ring		1BP38	1		
34	36326128	Cap screw		M12 x 25	4		
35	36326012	Valve body (E)	4139058C		1		EUR
36	36326131	Cap screw		M10 x 95	4		EUR
37	36326108 (44552306)	Plug		PT 3/8"	5		EUR
38	36326107 (58141008)	Plug		PT 1/4"	1		EUR
39	36326117 (38123327)	O-ring		1BP-12	1		EUR
40	36326119 (36110632)	O-ring		1BP-16	2		EUR
41	36326028	Solenoid valve	7936049A	(Uchida)	1		EUR
42	36326035	Screw	4139055		2		EUR
43	36326039	Solenoid valve cover	4139056		1		EUR
44	36326135	Washer		M5 polish	2		EUR
45	36326143	Nut		M5 type 1	2		EUR

LAPIS SERVICE INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. 11
Check valve

[illegible]



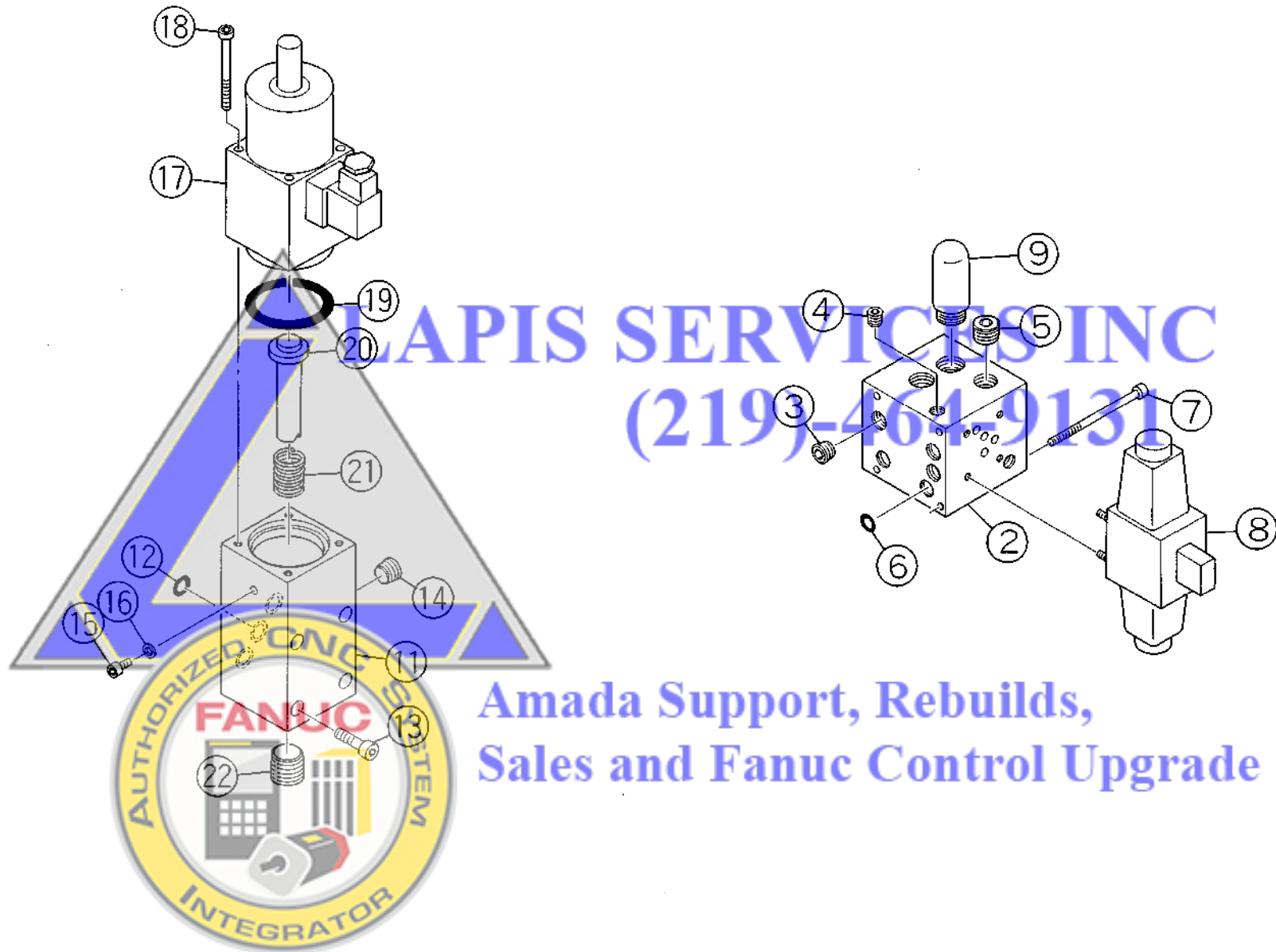
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 12
Solenoid, Unload valve

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 12
Solenoid, Unload valve

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Solenoid valve unit					
	36326402	EUR	4139062		1 set		
	36326401	USA	4135087B		1 set		
2	36326415	Block	4135088A		1		
3	36326108 (44552306)	Plug		PT 3/8"	5		
4	36326424	Plug		PT 1/2"	1		
5	36326425	Plug		PT 3/4"	1		
6	36326118	O-ring		1BP 16	4		
7	36326429	Cap screw		M8 x 120	4		
8	36326407	Solenoid valve		4WE10H-Ao /AW100-00NPSZ4(Uchida)	1		
9	36326411	Relief valve		DBDS6K1/315 (Uchida)	1		
10	36327102	Unload valve ass'y	4136308D		1		
11	36327107	Valve body	4135084H		1		
12	36327126	O-ring		1BP11	3		
13	36327133 (74302815)	Cap screw		M6 x 20	4		
14	36326108 (44552306)	Plug		PT 3/8"	1		
15	36327132 (74302810)	Cap screw		M5 x 10	1		



Unit No. **12**
Solenoid, Unload valve

[illegible]



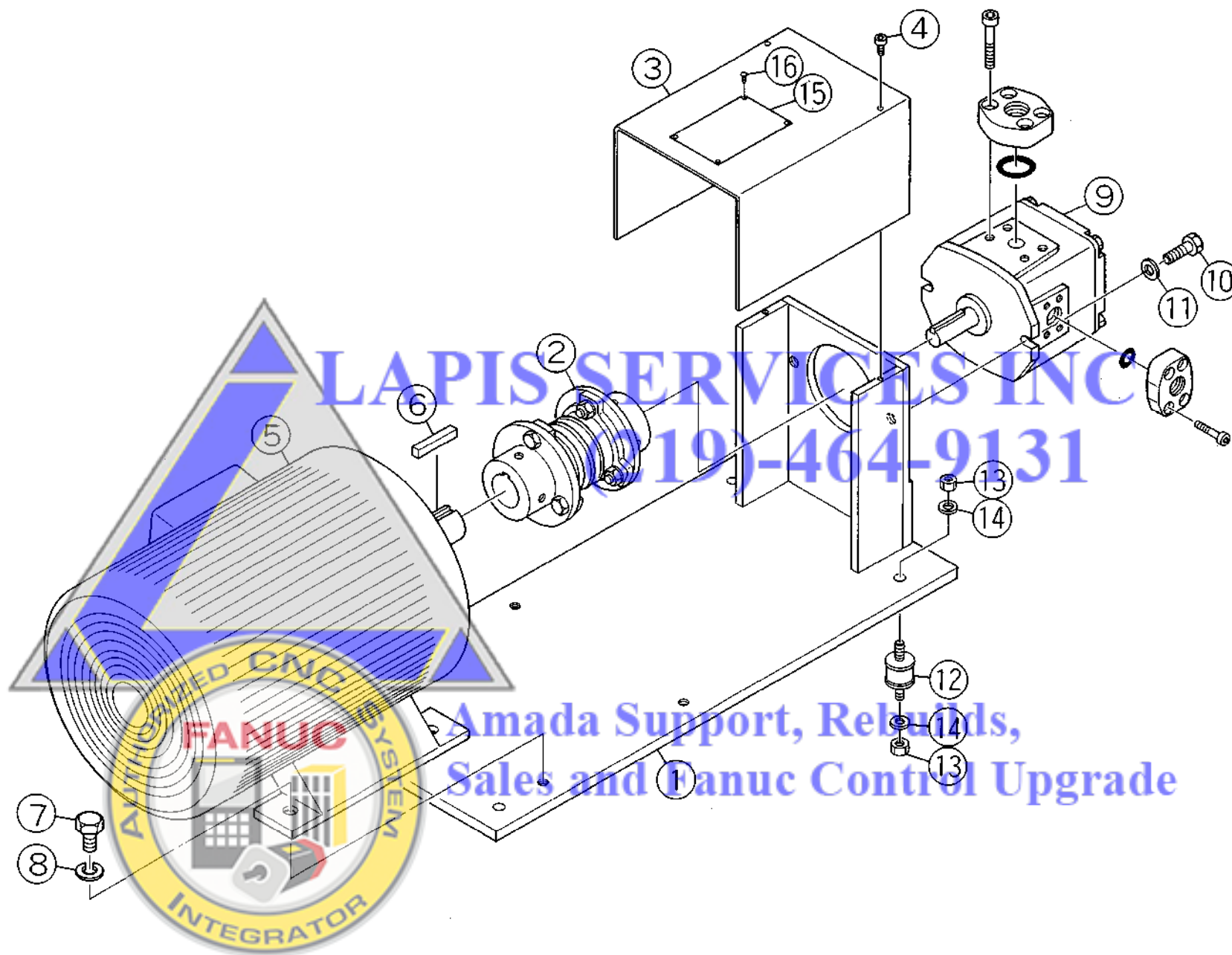
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 13
Hydraulic pump

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 13
Hydraulic pump

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36327404	Motor base	4135864		1		
2	36327413	Coupling	7937038	BC68ACP665 (NTN)	1		
3	36327421	Cover	4092817A		1		
4	36323416	Cap screw		M6 x 10	2		
5	36327425	Motor		MLA6133A 5.5 kW 4P (Fuji)	1		
6	36327504	Key		8 x 10 x 65 type 2	1		
7	36327604	Bolt		M10 x 35	4		
8	36327611	Spring washer		M10	4		
9	36327513	Pump	7936032	IPH-3B-10-3933A (NACHI)	1		
10	36327605	Bolt		M12 x 30	2		
11	36327617 (44028618)	Washer		M12	2		
12	36327518	Rubber cushion		KA-50	4		
13	36327621	Nut		M10 type 2	8		
14	36327616 (74300512)	Washer		M10	8		
15	36327521	Legend plate (caution)	4095623		1		
16	36327524	Drive screw rivet		φ1.8 x 48	4		

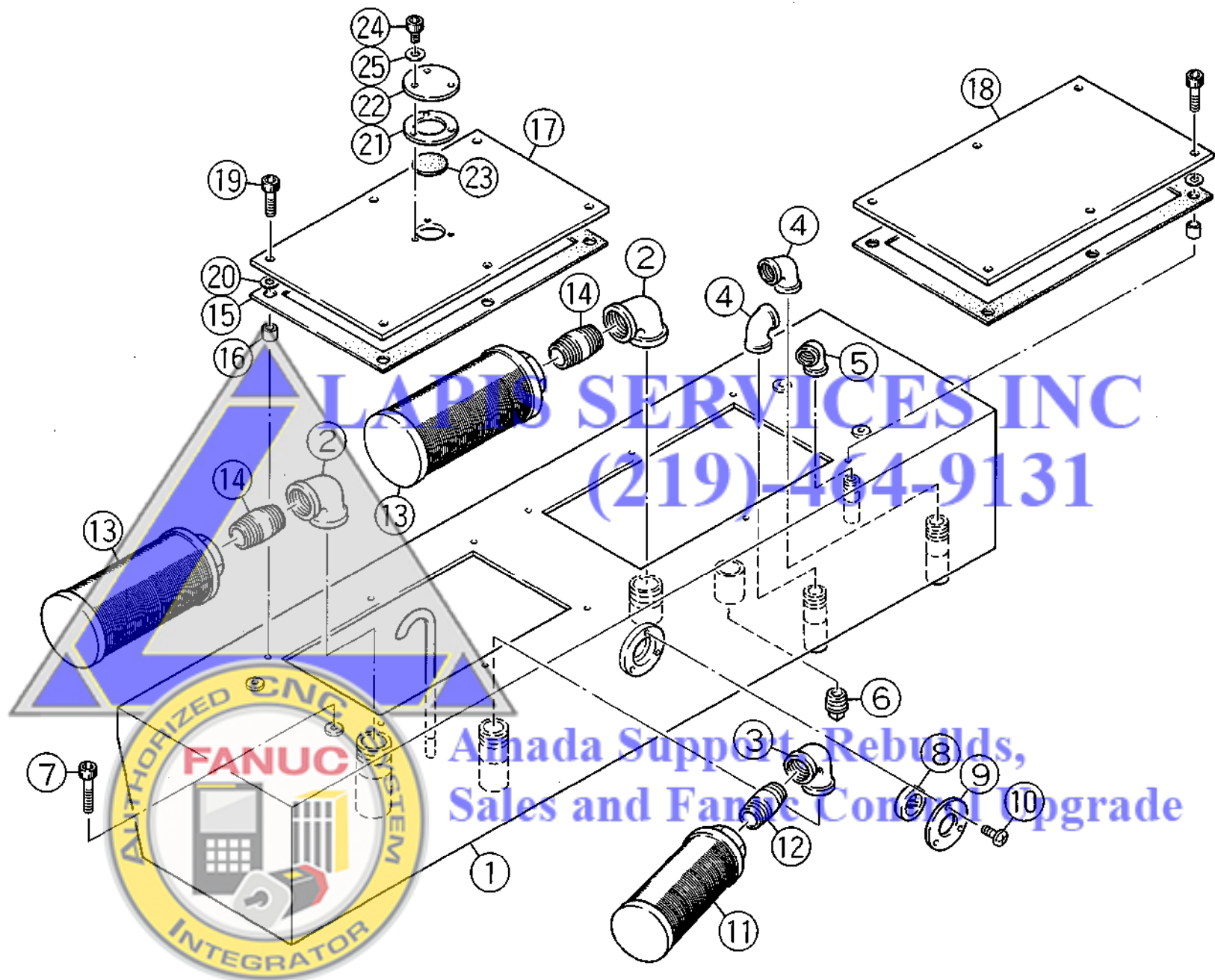
LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. 14
Hydraulic tank

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 14
Hydraulic tank

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36328804	Tank	4136330B		1		
2	36328321	Elbow		1-1/4"	2		
3	36328320	Elbow		1"	1		
4	36328924	Elbow		3/4"	2		
5	36328925	Elbow		3/8"	1		
6	36356514	Square head plug		3/4"	1		
7	36326823 (74302818)	Cap screw		M8 x 30	4		
8	36328921	Oil level gauge		OLG-40	1		
9	36328812	Support	383118A		1		
10	36328931 (74303113)	Pan head machine screw		M6 x 8	3		
11	36328902	Strainer		SFN-08 1"	1		
12	36328927	Nipple		1"	1		
13	36328904	Strainer		SFN-10 1-1/4"	2		
14	36328929	Nipple		1-1/4"	2		
15	36328830	Packing	4135050		2		
16	36328822	Spacer	4135049		12		
17	36328818	Cover	4138417		1		



Unit No. **14**
Hydraulic tank

[illegible]



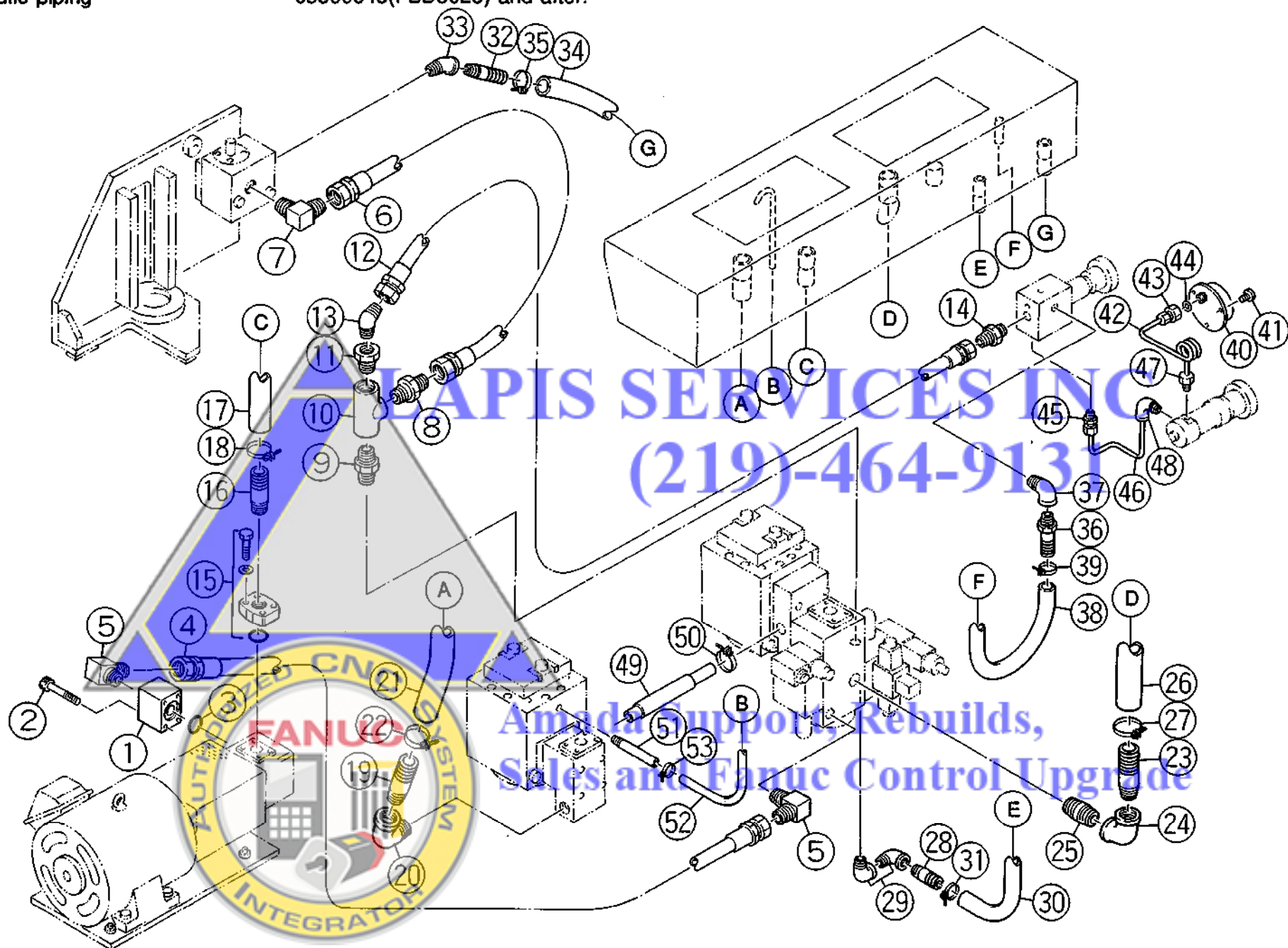
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 15
Hydraulic piping

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 15
Hydraulic piping

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36328002	Flange	4135194		1		
2	36328000 (10310362)	Cap screw		M8 x 45	4		
3	36328010 (38121649)	O-ring		IBP 22	1		
4	36328116	Rubber hose		N708 L=800 EK08NPF (BS)	1		
5	36328329	90° elbow		3021F-08 (BS)	2		
6	36328123 (36138321)	Rubber hose		XT-5-3/4 L=1200 (CAT) EH12NPF (BS)	1		
7	36328330	90° elbow		3021F-12 (BS)	1		
8	36328410	Male-male adapter		3001F-12 (BS)	1		
9	36328426	Nipple		NS 3/4" (NTN)	1		
10	36328423	Tee		TEF 3/4" (NTN)	1		
11	36328503	Bushing		BUT 3/4" x 3/8" (NTN)	1		
12		Rubber hose					
	36328102	8020		N706 L=450 EK06NPF (BS)	1		
	36328105	8025		N706 L=730 EK06NPF (BS)	1		
13	36328324	45° elbow		3023F-06 45° (BS)	1		
14	36328409	Male-male adapter		3001F-06 (BS)	1		
15	36328016	Flange kit		IHF-3-T-20 with bolt & O-ring (NACHI)	1 set		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 15
Hydraulic piping

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36328022	Pipe support	4091550A		1		
17	36328221	Oil hose		MDI-32 L=210 (YA)	1		
18	36328416	Hose band		#2 (Jubilee)	2		
19	36328028	Pipe support	4135967B		1		
20	36328404	Male-female elbow		1-1/4"	1		
21	36328227	Oil hose		MDI-38 L=300 (YA)	1		
22	36328418	Hose band		#2X (Jubilee)	2		
23	36328028	Pipe support	4135967B		1		
24	36328321	Elbow		1-1/4"	1		
25	36328428	Nipple		1-1/4"	1		
26	36328226	Oil hose		MDI-38 L=240 (YA)	1		
27	36328418	Hose band		#2X (Jubilee)	2		
28	36328026	Pipe support	560306A		1		
29	36328402	Male-female elbow		3/4"	2		
30	36328215	Oil hose		MDI-25 L=680 (YA)	1		
31	36328417	Hose band		#2A (Jubilee)	2		
32	36328026	Pipe support	560306A		1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 15
Hydraulic piping

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
33	36328402	45° male-female elbow		3/4"	1		
34	36328220	Oil hose		MDI-25 L=1100 (YA)	1		
35	36328417	Hose band		#2A (Jubilee)	2		
36	36328020	Pipe support	4040863		1		
37	36328401	Male-female elbow		3/8"	1		
38		Oil hose					
	36328202	8020		MDI-15 L=700 (YA)	1		
	36328205	8025		MDI-15 L=900 (YA)	1		
39	36328413	Hose band		#0X (Jubilee)	2		
40	36320123	Pressure gauge	7936021A		1		
41	36320133 (74305017)	Pan head machine screw		M5 x 10	3		
42	36328301	Copper pipe	4135964		1		
43	36328310	Connector		KS-P-3/8" x 4	1		
44	36328314	Gasket		KP-B-02	1		
45	36328309	Connector		KC4-PT 1/8"-S	1		
46	36328302	Copper pipe	4135965		1		
47	36328312	Connector		KC4-PT 1/8"-S	1		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds
Sales and Fanuc Control Upgrade

Unit No. 15

Hydraulic piping

[illegible]



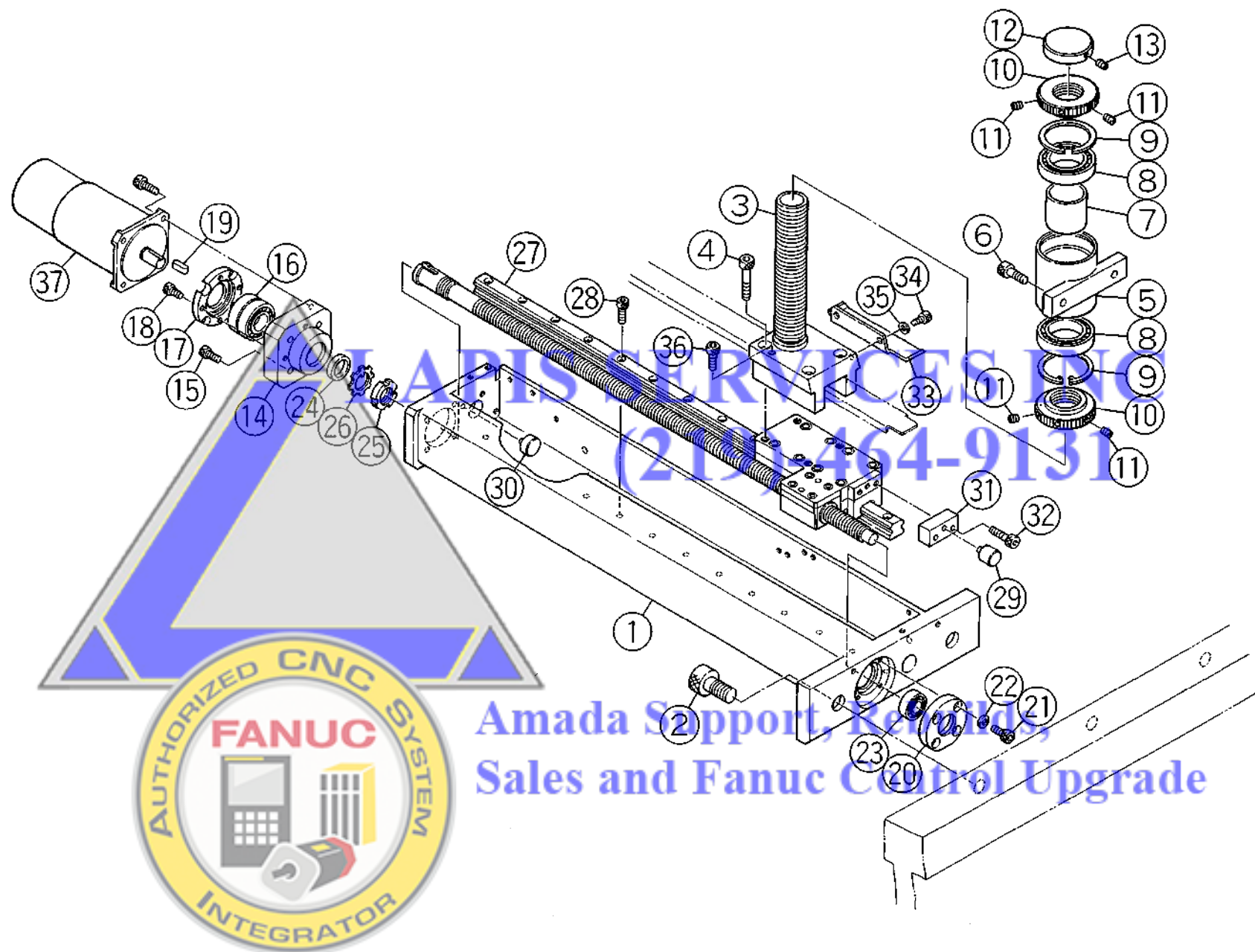
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 16
Support (1)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



Amada Support, Repairs,
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 16
Support (1)

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-66 (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		



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		



Unit No. 16
Support (1)

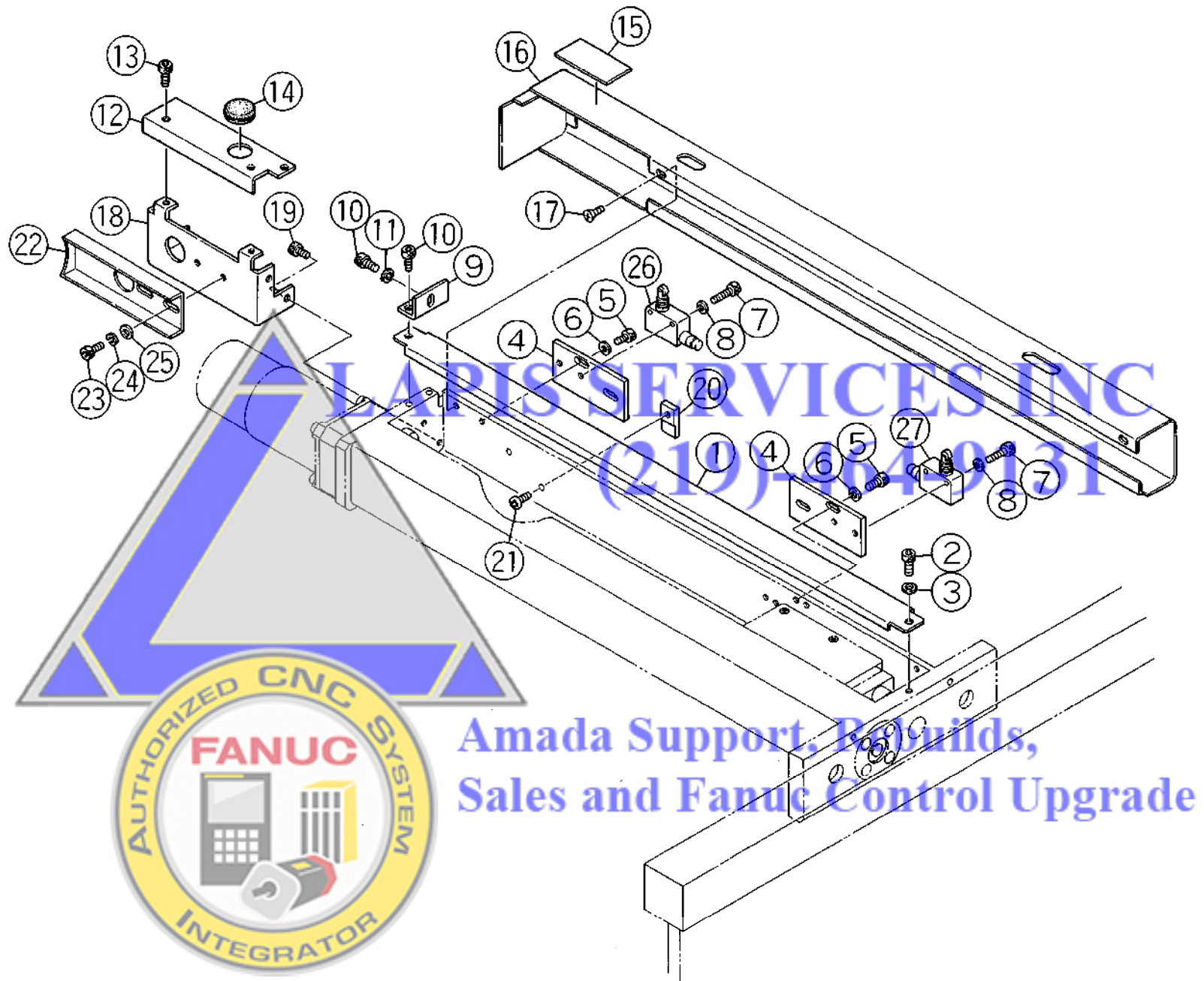
LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade



Unit No. 17
Support (2)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 17
Support (2)

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	810649B		2		
16	36180718	Cover	4128783C		2		
17	36177036	Countersink head socket screw		M6 x 8	4		



Unit No. 17
Support (2)

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade





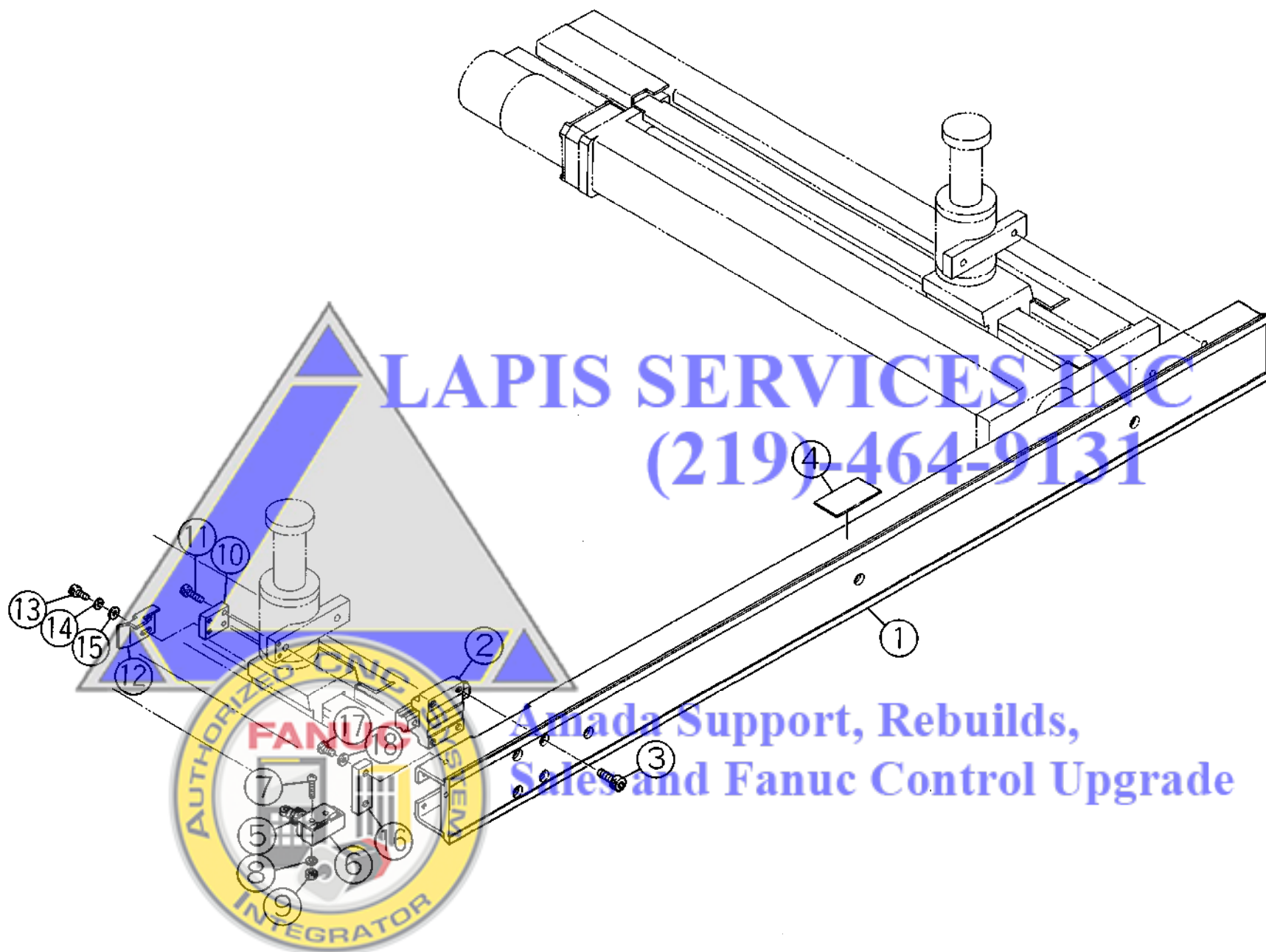
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 18
Stretch

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 18
Stretch

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Stretch					
	36180539	8020	4128792B		1		
	36180540	8025	4128793B		1		
2	36181117	LM guide	7950003D		1		
3	36176722 (21415514)	Cap screw		M8 x 25	4		
4	36144011		810649B		1		
5	36181131	Micro switch	7935071		1		
6	36181130 (36112405)	Cover		5PA2-J	1		
7	36176820	Pan head machine screw		M4 x 25	2		
8	36181133	Spring washer		M4	2		
9	36181134	Nut		M4 type 2	2		
10	36181123	Base	4130465		1		
11	36176737	Cap screw		M6 x 20 loc-wel (unbrako)	2		
12	36181125	Dog	4130466A		1		
13	36176713 (74302814)	Cap screw		M6 x 14	2		
14	36176923 (36323020)	Spring washer		M6	2		
15	36177005	Washer		M6 polish	2		



Unit No. 18
Stretch[illegible]



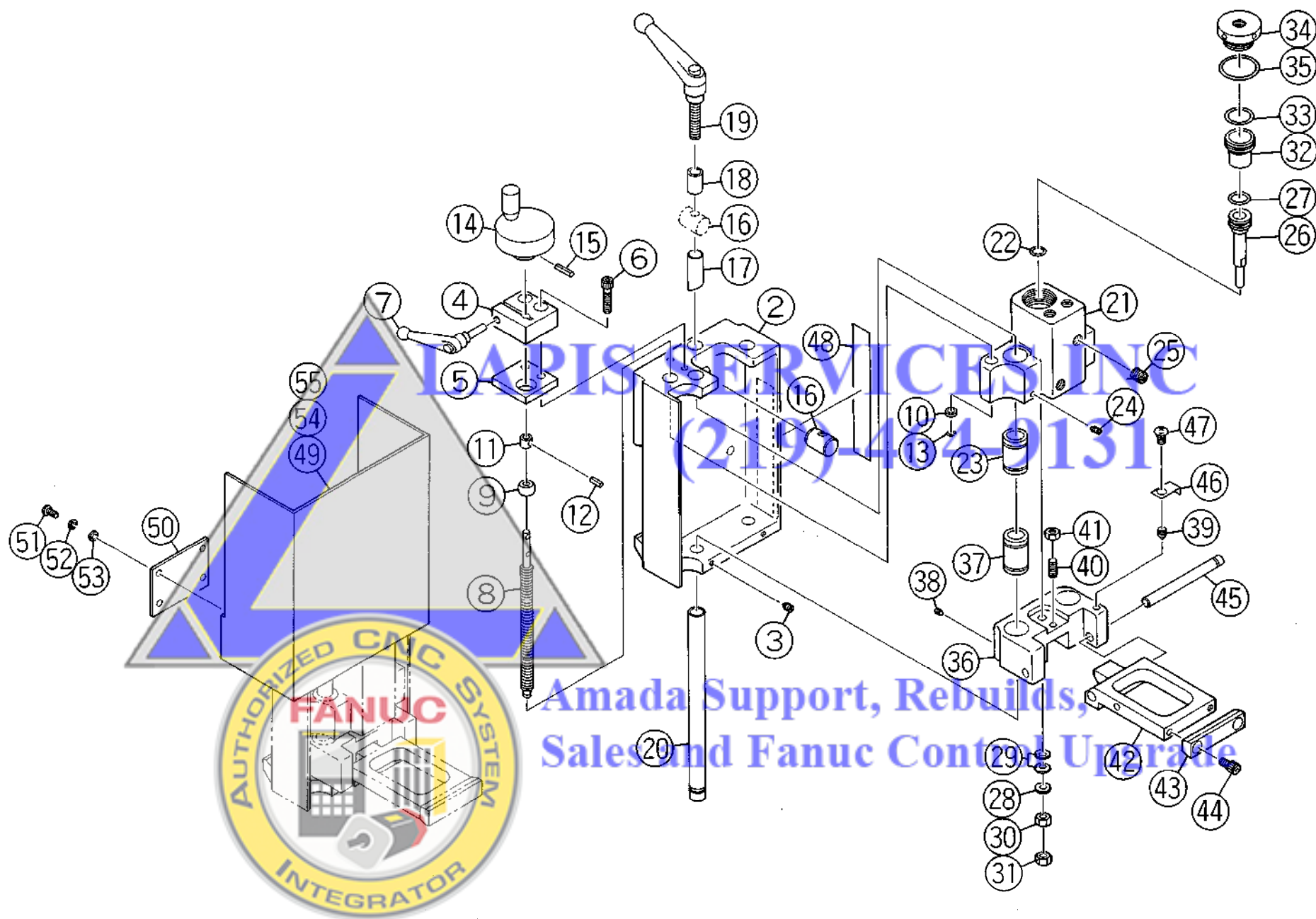
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 19
Work stopper

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 19
Work stopper

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Work stopper ass'y					
	36181802	EUR	4139535		2 set		
	36181801	U.S.A.	4128796F		2 set		
2		Body					
	36181804	EUR	4139538		2		
	36181803	U.S.A.	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 S, S)	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	36181856	Spring pin		Φ3 x 10	2		
13	36181819	Snap ring		STW-6	2		

LAPIS SERVICES INC
(219)-464-9151
Amada Support, Rebuilds
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 19
Work stopper

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36181825	Handwheel	4128802		2		
15	36181857	Spring pin		Φ3 x 20	2		
16	36181829	Lock nut	4128803		2		
17	36181830	Lock bar	4128804A		2		
18	37181831	Collar	4128805		2		
19	36181832	Clamp lever		KR8 x 40 (Imao S, S)	2		
20	36181835	Guide rod	7950004	(THK)	4		
21	36181838	Cylinder	4128806B		2		
22	36181849	O-ring		1BP 10	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		1BP 14	2		
28	36177004 (44027930)	Washer		M6	2		
29	36368330	Spring washer		M6 1L	4		
30	36181855 (74304422)	Nut		M6 type 3	2		



-100-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 19
Work stopper

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
31	36176806 (10310352)	Nut		M6 type 1	2		
32	36181841	Piston	4128808A		2		
33	36181851	O-ring		1BP 21	2		
34	36181843	Cap	4128809		2		
35	36181852	O-ring		S-28 (NOK)	2		
36	36181845	Holder	4128810A		2		
37	36181847	Linear ball bearing		LM13UU (THK)	4		
38	36181626	Set screw		M4 x 6 cone end	4		
39	36176908 (36323029)	Set screw		M6 x 10 cone end	2		
40	36181627	Set screw		M6 x 15 dog end	2		
41	36181855	Nut		M6	2		
42	36181806	Work stopper	4128811B		2		
43	36181810	Pad	4128812C		2		
44	36176711 (74302812)	Cap screw		M6 x 10	4		
45	36181809	Pin	4128813A		2		
46	36181861	Pointer	4128814A		2		
47	36176834 (74303113)	Pan head machine screw		M6 x 8	2		



Unit No. **19**
Work stopper[illegible]



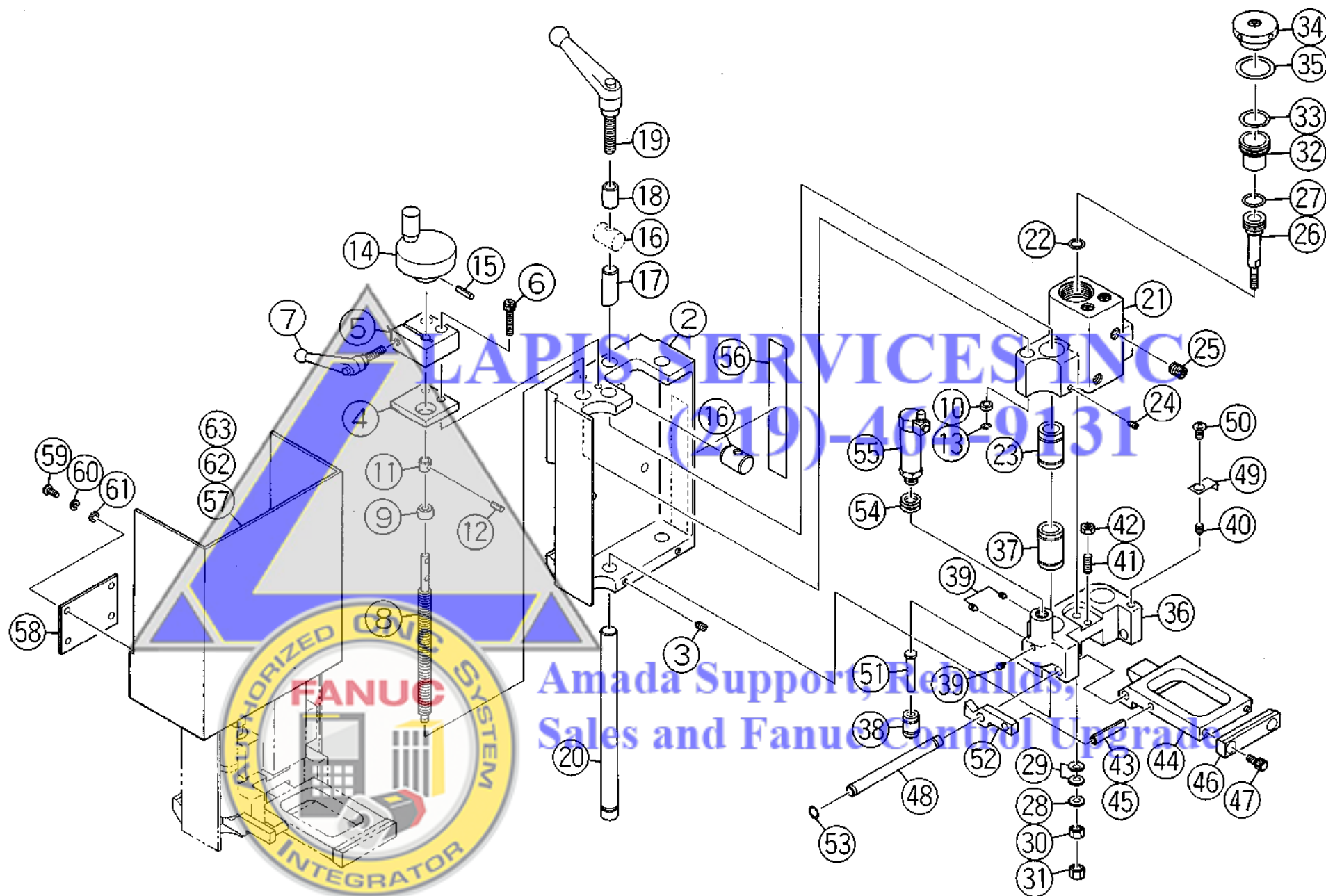
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 20
Flip-up work stopper – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 20
Flip-up work stopper – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36181502	Flip-up stopper ass'y	4139536		2 set		
2	36181804	Body	4139538		2		
3	36176908 (36323029)	Set screw		M6 x 10 cone end	4		
4	36181532	Bearing retainer	4128798A		2		
5	36181533	Bearing case	4128799		2		
6	36176717 (75168508)	Cap screw		M6 x 25	4		
7	36181536	Clamp lever		KR6 x 20 (Imao S, S)	2		
8	36181524	Feed screw	4128800A		2		
9	36181834	Spherical shaft support		NB6 (THK)	2		
10	36181527	Collar	4128727		2		
11	36181528	Collar	4128801A		2		
12	36181856 (87117102)	Spring pin		Φ3 x 10	2		
13	36181819	Snap ring		STW-6	2		
14	36181534	Handwheel	4128802		2		
15	36181857 (54117205)	Spring pin		Φ3 x 20	2		
16	36181539	Lock nut	4128803		2		
17	36181540	Lock bar	4128804A		2		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 20

Flip-up work stopper – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36181541	Collar	4128805		2		
19	36181542	Clamp lever		KR8 x 40 (Imao S, S)	2		
20	36181549	Guide rod	7950004	(THK)	4		
21	36181551	Cylinder	4128806B		2		
22	36181562	O-ring		1BP 10	2		
23	36181560	Linear ball bearing		LM13UU (THK)	4		
24	36181626	Set screw		M4 x 6 cone end	4		
25	36181859 (29210630)	Plug		1/8"	4		
26	36181553	Piston	4128807D		2		
27	36181563 (38121648)	O-ring		1BP 14	2		
28	36177004 (44027930)	Washer		M6	2		
29	36368330	Spring washer		M6 1L	4		
30	36181855 (74304422)	Nut		M6 type 3	2		
31	36176806 (10310352)	Nut		M6 type 1	2		
32	36181554	Piston	4128808A		2		
33	36181564 (36005710)	O-ring		1BP 21	2		
34	36181556	Cap	4128809		2		

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 20
Flip-up work stopper – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36181565	O-ring		S-28 (NOK)	2		
36	36181559	Holder	4128820D		2		
37	36181560	Linear ball bearing		LM13UU (THK)	4		
38	36181521	Linear ball bearing		LM6UU (THK)	2		
39	36181626	Set screw		M4 x 6 cone end	10		
40	36176908 (36323029)	Set screw		M6 x 10 cone end	2		
41	36181627	Set screw		M6 x 15 dog end	2		
42	36181855	Nut		M6	2		
43	36181514 (10357006)	Spring pin		Φ3.5 x 36	2		
44	36181806	Work stopper	4128811B		2		
45	36181514	Spring pin		Φ6 x 36	2		
46	36181810	Pad	4128812B		2		
47	36176711 (74302812)	Cap screw		M6 x 10	4		
48	36181515	Pin	4129243		2		
49	36181601	Pointer	4128814A		2		
50	36176834 (74303113)	Pan head machine screw		M6 x 8	2		
51	36181520	Flip-up rod	4128818		2		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 20
Flip-up work stopper – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
52	36181513	Flip-up lever	4128819B		2		
53	36181516	Snap ring		STW-8	2		
54	36181546	Shim	4129122		6		
55	36181545	Cylinder	7950002C	CTB15-01-30213	2		
56		Scale					
	36181862	(mm)	4128815A		2		
	36181863	(inch)	4129820A		2		
57	36181901	Handle cover	4139539		2		
58	36181902	Plate	4139540		2		
59	36176821 (58250511)	Pan head machine screw		M5 x 8	12		
60	36182652	Toothed lock washer		M5	12		
61	36329901 (10562123)	Washer		M5	12		
62	36181905	Coil tube		P-20 500 mm	2		
63	36181907	Rubber packing	383322A	L=600 mm	2		





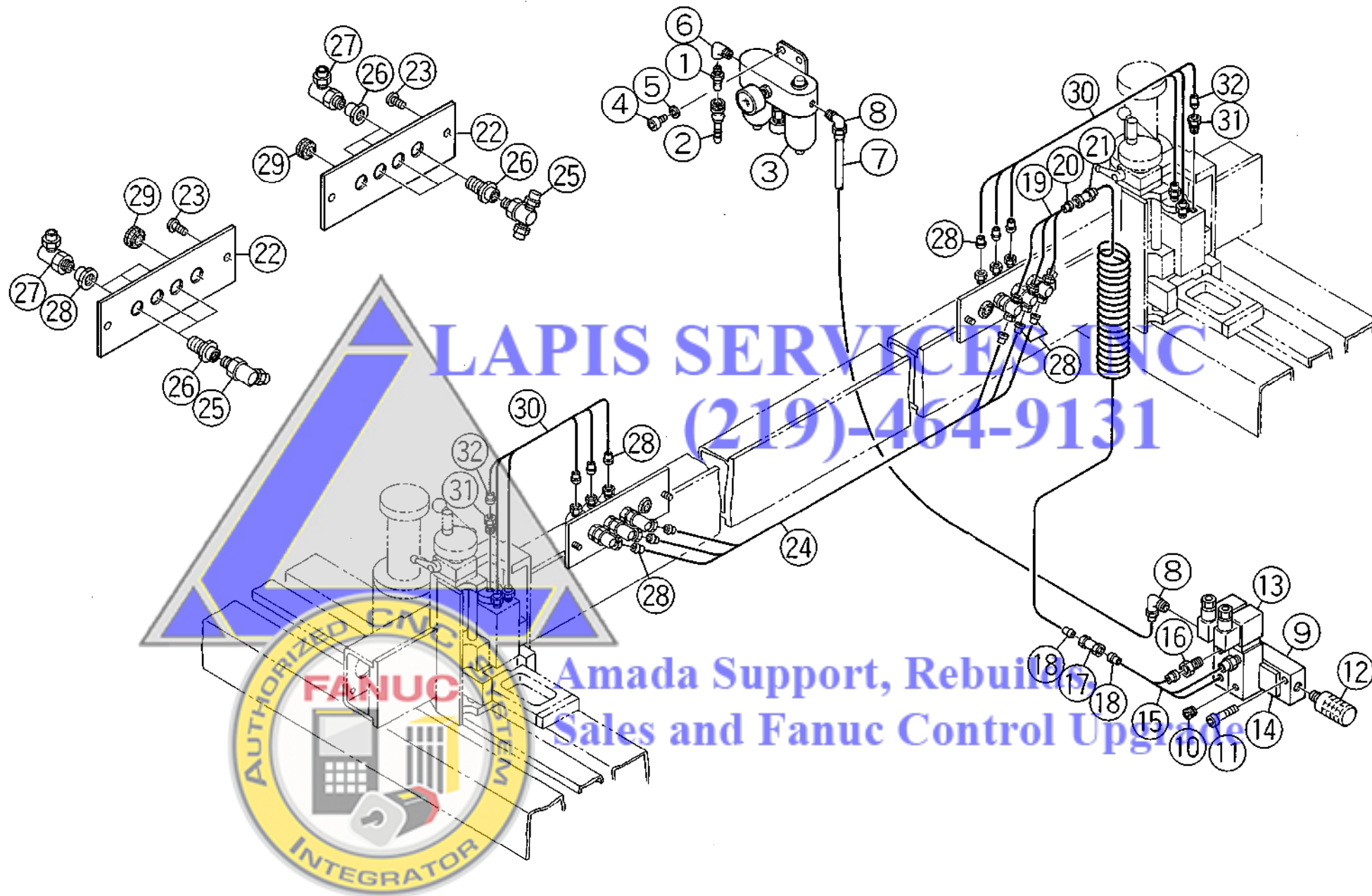
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 21
Pneumatic piping (1) – USA

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 21
Pneumatic piping (1) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36182564 (74162522)	Coupler plug		20PM PT 1/4"	1		
2	36182562	Coupler socket		20SH PT 1/4"	1		
3	36182518	Air supply unit		AU200-02BG (SMC)	1		
4	36367619 (36329937)	Cap screw		M8 x 10	2		
5	36176924 (10001521)	Spring washer		M8	2		
6	36182552	Elbow		PT 1/4"	1		
7	36182636	Tube		AS70-08 L=2000 (Junron)	1		
8	36182549	Elbow		PL-8x6-PT 1/4"-BS (Junron)	2		
9	36182506	Manifold		VV3000-03-B3 (SMC)	1		
10	36182566	Blind plug		PT 1/4"	4		
11	36176710 (74304902)	Cap screw		M5 x 35	2		
12	36182514	Silencer		AN200-02 (SMC)	2		
13	36182502	Solenoid valve		VF3130-1DZ-02 (SMC)	2		
14	36182568	Blind plate		DXT031-38-1A (SMC)	1		
15	36182605	Tube		UH30-06 L=1000 (Junron)	3		
16	36182547	Nipple		BN-6x4-PT1/4"-BSN (Junron)	3		
17	36182553	Union		BU-6x4-BSN (Junron)	3		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 21
Pneumatic piping (1) - USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36182560	Sleeve		BS-06	6		
19		Tube					
	36182641	8020		UH-30-06 L=200 (Junron)	3		
	36182642	8025		UH-30-06 L=350 (Junron)	3		
20	36182553	Union		BU-6x4-BSN (Junron)	3		
21	36182560	Sleeve		BS-06 (Junron)	6		
22	36182629	Panel	4129070		2		
23	36180554	Button head machine screw		M6 x 10	4		
24		Tube					
	36182604	8020		UH30-06 L=800 (Junron)	3		
	36182639	8025		UH30-06 L=1100 (Junron)	3		
25	36182556	Tee		BTA-6 x 4-PT 1/8"-BSN (Junron)	3		
26	36182554	Panel union		PF-1/8"x1/8" (Junron)	6		
27	36182548	Elbow		BL-6x4-PT1/8"-BSN (Junron)	9		
28	36182560	Sleeve		BS-06 (Junron)	15		
29	36182650	Grommet		SG-16A (Takigen)	2		
30		Tube					



Unit No. **21**
Pneumatic piping (1) – USA











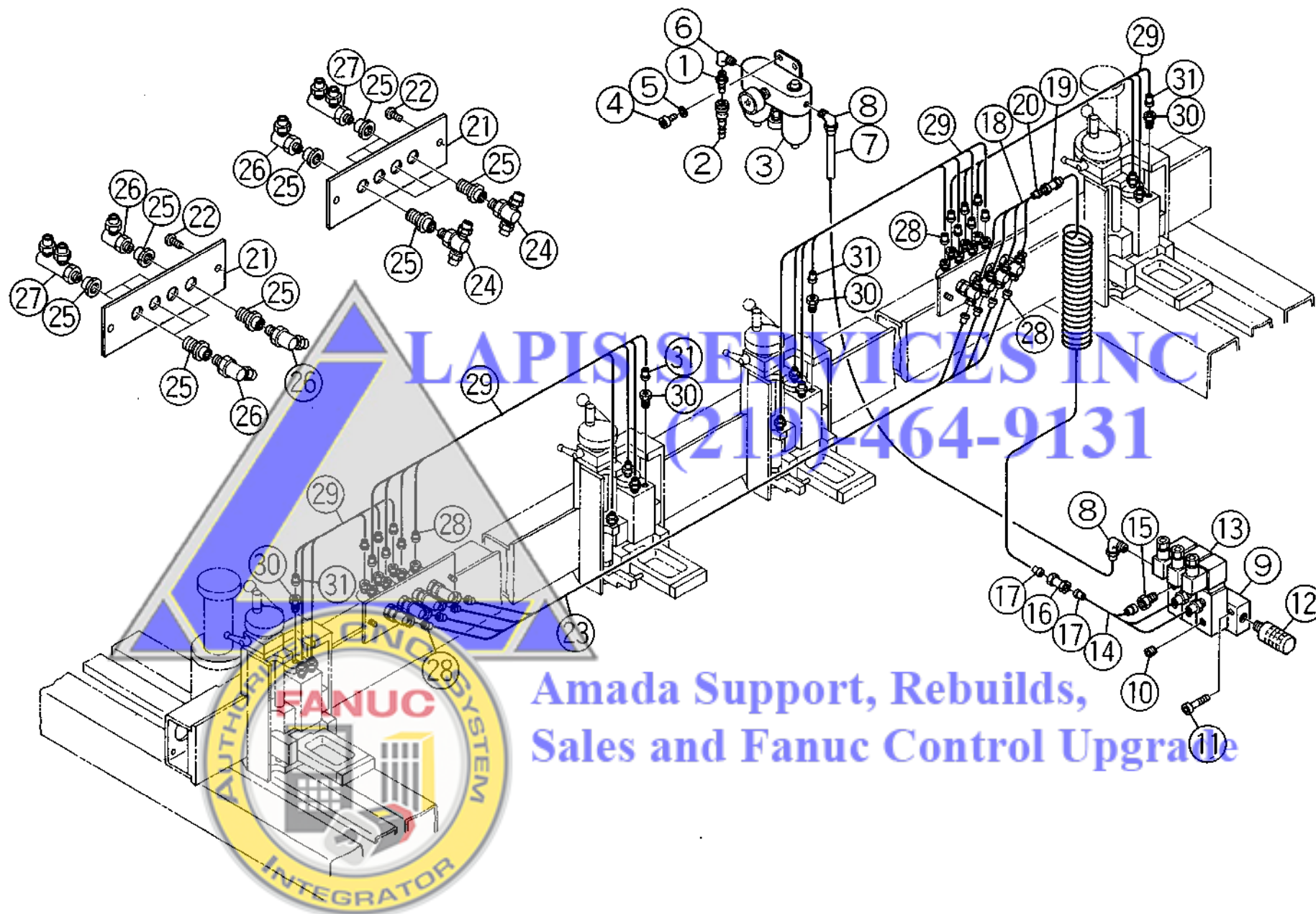



* 1 * * 2 * * 3 * * 4 * * 5 * * 6 * * 7 * * 8 * * 9 * * 0 *

-118-

Unit No. 22
Pneumatic piping (2) – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **22**
Pneumatic piping (2) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36182564 (74162522)	Coupler plug		20PM PT 1/4"	1		
2	36182562	Coupler socket		20SH PT 1/4"	1		
3	36182518	Air supply unit		AU200-02BG (SMC)	1		
4	36367619 (36329937)	Cap screw		M8 x 10	2		
5	36176924 (10001521)	Spring washer		M8	2		
6	36182552	Elbow		PT 1/4"	1		
7	36182636	Tube		AS70-08 L=2000 (Junron)	1		
8	36182549	Elbow		PL-8x6-PT 1/4"-BS (Junron)	2		
9	36182506	Manifold		VV3000-03-B3 (SMC)	1		
10	36182566	Blind plug		PT 1/4"	5		
11	36176710 (74304902)	Cap screw		M5 x 35	2		
12	36182514	Silencer		AN200-02 (SMC)	2		
13	36182501	Solenoid valve		V3103-021D (SMC)	3		
14	36182605	Tube		UH30-06 L=1000 (Junron)	4		
15	36182547	Nipple		BN-6x4-PT1/4"-BSN (Junron)	4		
16	36182553	Union		BU-6x4-BSN	4		
17	36182560	Sleeve		BS-06	8		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **22**
Pneumatic piping (2) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18		Tube					
	36182641	8020		UH-30-06 L=200 (Junron)	4		
	36182642	8025		UH-30-06 L=350 (Junron)	4		
19	36182553	Union		BU-6x4-BSN (Junron)	4		
20	36182560	Sleeve		BS-06 (Junron)	8		
21	36182629	Panel	4129070		2		
22	36180554	Button head machine screw		M6 x 10	4		
23		Tube					
	36182604	8020		UH30-06 L=800 (Junron)	4		
	36182639	8025		UH30-06 L=1100 (Junron)	4		
24	36182556	Tee		BTA-6 x 4-PT 1/8"-BSN (Junron)	4		
25	36182554	Panel union		PF-1/8"x1/8" (Junron)	8		
26	36182548	Elbow		BL-6x4-PT1/8"-BSN (Junron)	6		
27	36181618	Elbow	7951006A	(Junron)	6		
28	36182560	Sleeve		BS-06 (Junron)	26		
29		Tube					
	36182608	8020		UH-30-06 L=600 (Junron)	14		



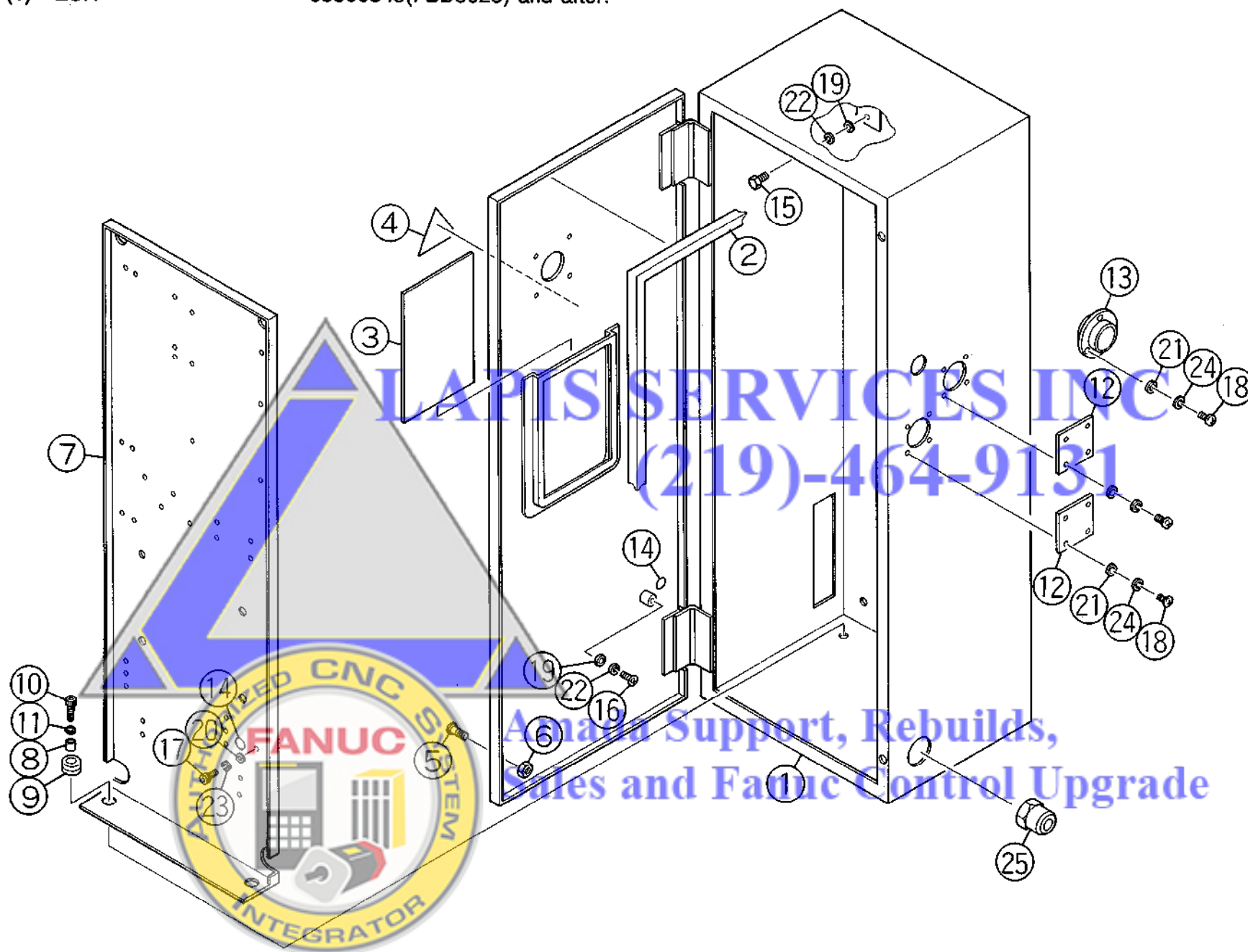
Unit No. **22**
Pneumatic piping (2) – EUR[illegible]

-124-



Unit No. 23
Electric (1) – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329225	Electrical box (1)	4139031B		1		
2	36329442	Neoplane sponge		10 x 10 x 1660	1		
3		Acrylic resin plate					
4	36329344	Electric sticker		IEC-80	1		
5	36329401	Screw	4095509		2		
6	36329932	Nut		M8 type 3	2		
7	36329415	Apparatus setting plate	4139033B		1		
8	36329421	Collar	4092521		4		
9	36329424	Grommet		NG-79H (Takigen)	4		
10	36329938 (74307602)	Cap screw		M6 x 16	4		
11	36329920 (44027930)	Washer		M6	4		
12	36329031	Blind cover	4139613	GmbH UK	2 1		
13	36329412	Receptacle		MS3102A -20-16S (JAE) UK	1		
14	36329347	Sticker (earth)		AS-K	3		
15	36329950	Bolt		M5 x 15	1		
16	36329913 (74307624)	Pan head machine screw		M5 x 12	1		
17	36329904	Pan head machine screw		M4 x 12	1		



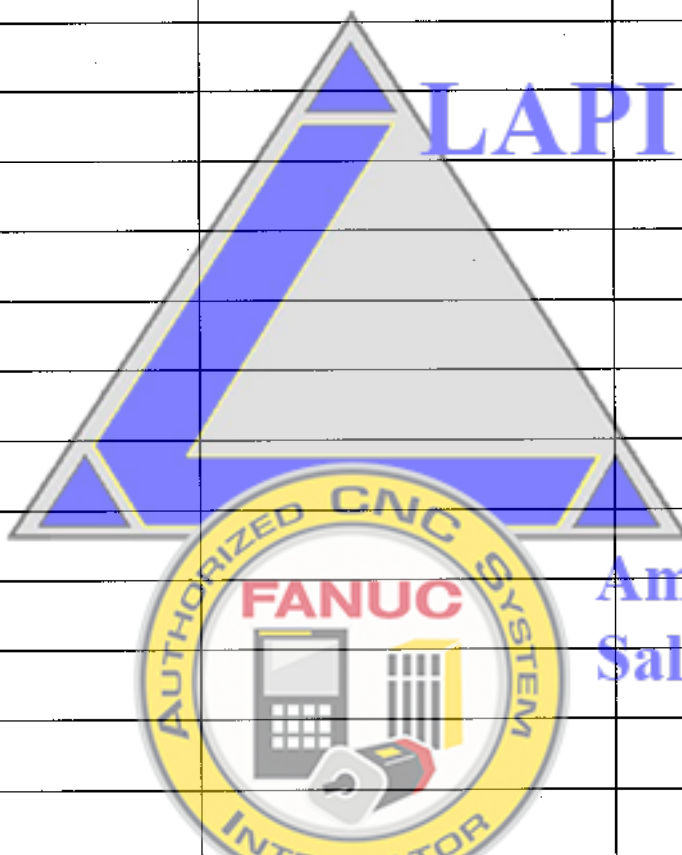
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36329901 (10562123)	Pan head machine screw		M3 x 8 GmbH UK	8 7		
19	36329918 (44552819)	Washer		M5	2		
20	36329917 (74300510)	Washer		M4	1		
21	36329916 (74307605)	Washer		M3 GmbH UK	8 7		
22	36329924 (44027927)	Spring washer		M5	2		
23	36329926 (44027327)	Spring washer		M4	1		
24	36329922 (74307612)	Spring washer		M3 GmbH UK	8 7		
25	36329319	Connector		OA-U2 (OHM)	1		
26	36329127	Cable		IV 5.5 mm ² 600V black 3 m	1		
27	36329128	Cable		IV 2 mm ² 600V black 1 m	1		
28	36329140	Cable		KIV 2 mm ² yellow/green 2 m	1		
29	36329138	Cable		KIV 1.25 mm ² red 4 m	1		
30	36329239	Lug terminal		5.5 mm ² round type	29		
31	36329237	Lug terminal		2 mm ² round type	8		
32	36329236	Lug terminal		2 mm	1 set		
33	36329235	Lug terminal		1.25 mm	1 set		
34	36329723	Marker tube		5.5 mm ² 0.5 m	1		



Unit No. **23**
Electric (1)

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade

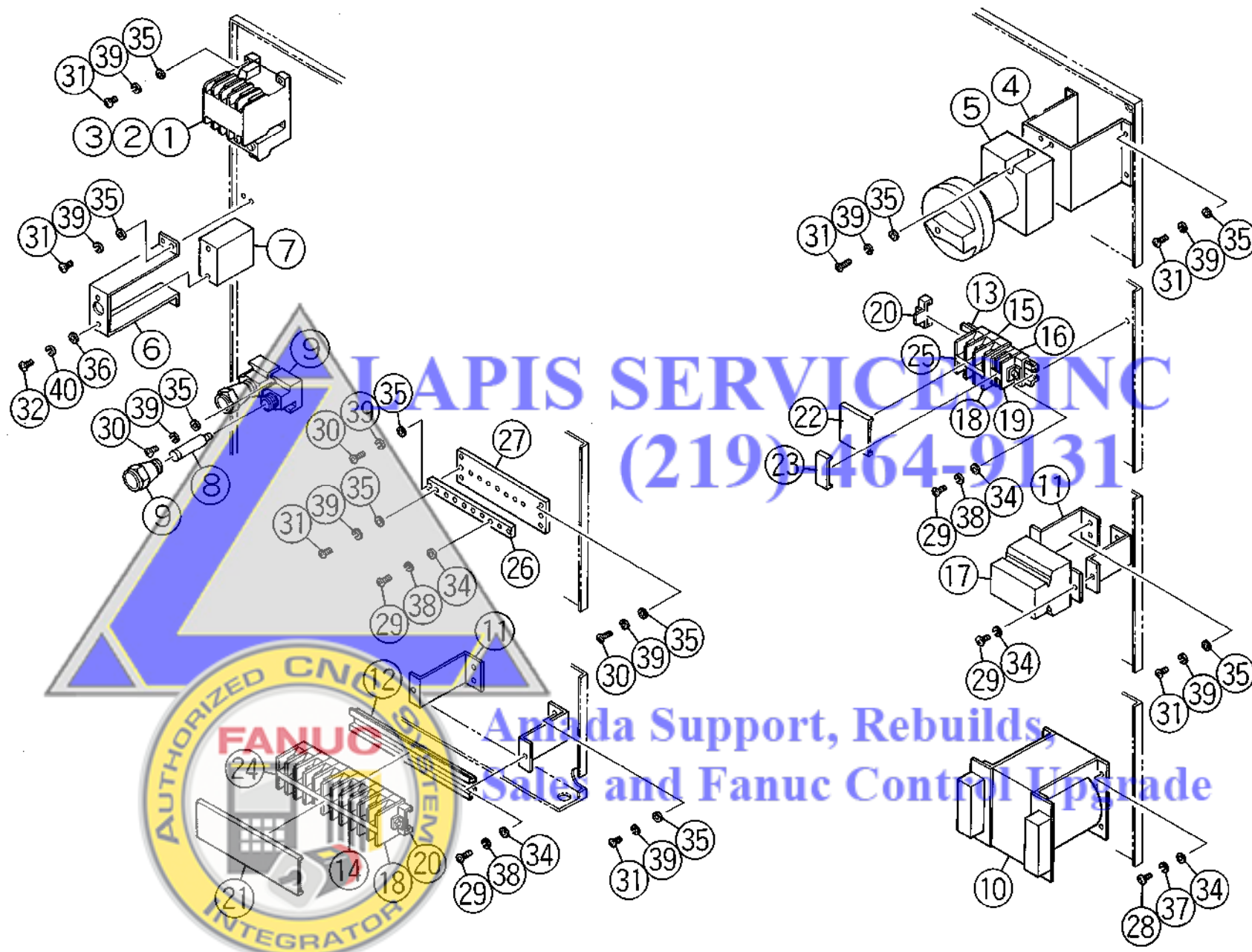


-130-



Unit No. 24
Electric (2) – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 24
Electric (2) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329682	Magnet switch MS		2W-2N 5.5 kW AC100V (Fuji)	1		
2	36329458	Thermal relay TH		TR-2/3 5.5 kW 11A (Fuji)	1		
3	36329261	Noise killer SK		ENB221C-14A (Fuji)	1		
4	36329005	C.S. setting bracket	4139034A		1		
5	36329109	Cam switch CS1		P3/63/V-Svb (CLOKNER MÖLLER)	1		
6	36329006	C.P. setting bracket	4139035A		1		
7	36329122	Circuit protector CP		BAB1-150-311 (National)	1		
8	36329158	Fuse link F		BLA-007D (Fuji)	2		
9	36329161	Fuse base & cap		AFaC-7 (Fuji)	2 set		
10	36329603	Transformer TF		TL-SA4M-85 (Aporo)	1		
11	36329012	Terminal bracket	4139036A		4		
12	36329436	Rail		BAP L=200 (Izumi)	1		
13	36329432	Rail		BAP L=115 (Izumi)	1		
14	36329230	Block terminal TB1		BN50 (Izumi)	11		
15	36329230	Block terminal TB2		BN50 (Izumi)	3		
16	36329228	Block terminal TB2		BN15 (Izumi)	2		
17	36329232	Block terminal ass'y TB3		TU-15W-9P (Fuji elec.)	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 24
Electric (2) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36329428	End plate		BNE50 (Izumi)	2		
19	36329429	End plate		BNE15 (Izumi)	1		
20	36329501	Retainer		BNL6	4		
21	36329338	Terminal cover		BNC32 L=190	1		
22	36329337	Terminal cover		BNC32 L=65	1		
23	36329335	Terminal cover		BNC22 L=25	1		
24	36329354	Mark sheet		BNM9 L=200	1		
25	36329353	Mark sheet		BNM9 L=115	1		
26	36329035	Earth bar	4139037A		1		
27	36329018	Earth bar setting plate	4139038A		1		
28	36329911 (74303113)	Pan head machine screw		M6 x 8	4		
29	36329910 (58250511)	Pan head machine screw		M5 x 8	8		
30	36329904	Pan head machine screw		M4 x 12	10		
31	36329903 (74306414)	Pan head machine screw		M4 x 8	26		
32	36329901 (10562123)	Pan head machine screw		M3 x 8	2		
33	36329920 (44027930)	Washer		M6	4		
34	36329918 (44552819)	Washer		M5	6		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. **24**
Electric (2) – EUR

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade

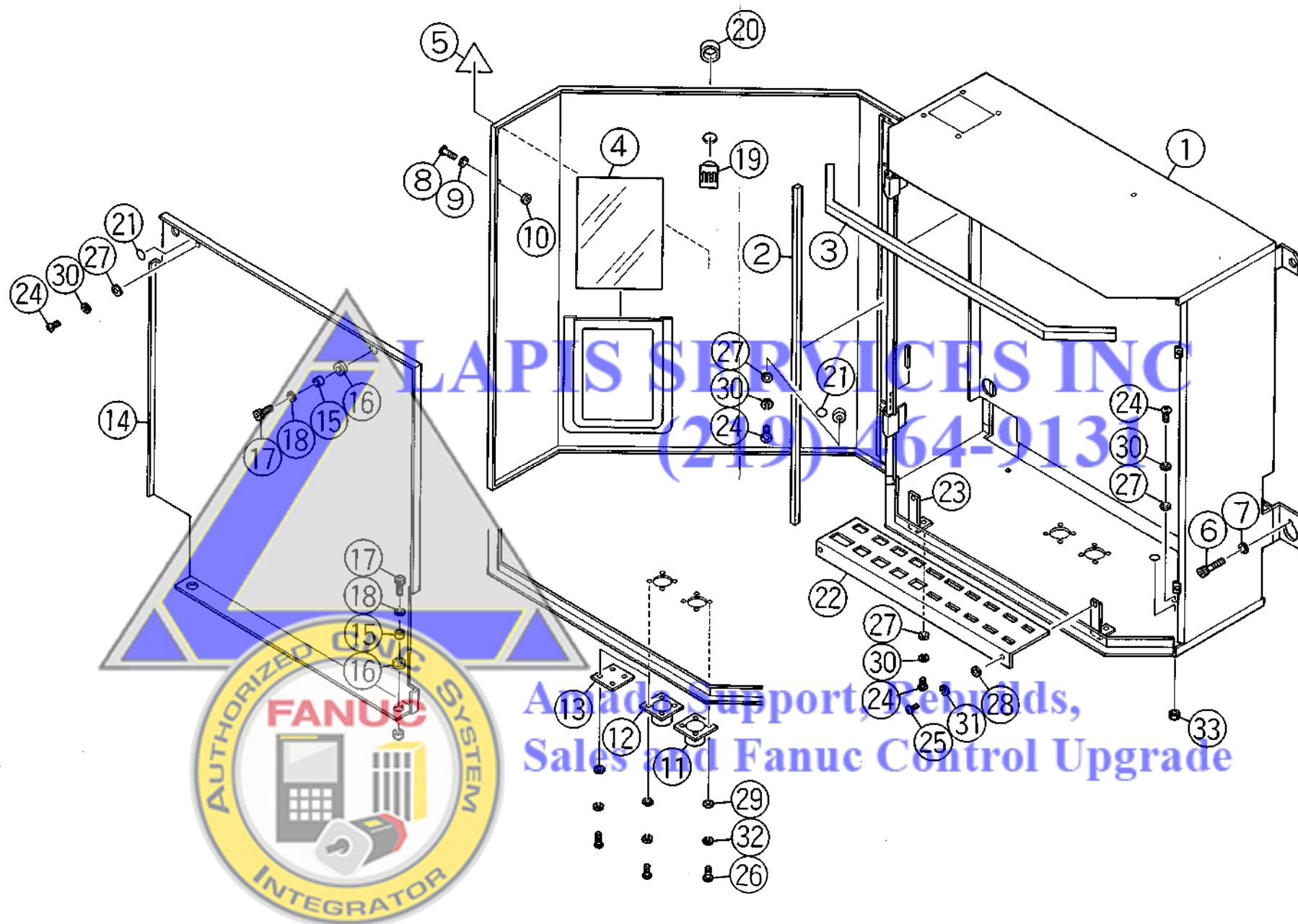


-136-



Unit No. 25
Electric (3) – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 25
Electric (3) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329220	Electrical box (2)	4139045A		1		
2	36329852	Neoplane sponge		10 x 10 x 656	1		
3	36329854	Neoplane sponge		12 x 15 x 2050	1		
4	36329858	Acrylic resin plate		150 x 213 x 0.5	1		
5	36329344	Electric sticker		IEC-80	1		
6	36329939 (44028704)	Cap screw		M10 x 20	4		
7	36329915 (74300512)	Washer		M10	4		
8	36329401	Screw	4095509		2		
9	36329921 (74300511)	Washer		M8	2		
10	36329932	Nut		M8 type 3	2		
11	36329413	Receptacle		MS3102A 20-27S (JAE)	1		
12	36329414	Receptacle		MS3102A 20-29S (JAE)	1		GmbH
13	36329031	Blind cover	4139613		1		UK
14	36329020	Apparatus setting plate	4139039A		1		
15	36329421	Ring	4092521		4		
16	36329424	Grommet		NG-79H (Takigen)	4		
17	36329940 (74302814)	Cap screw		M6 x 14	4		



-138-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 25
Electric (3) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36329921 (74300511)	Washer		M8	4		
19	36329534	Pilot light		AH22ZW (Fuji)	1		
20	36375106	Setting ring		AHX749-B black (Fuji)	1		
21	36329347	Sticker (earth)		AS-K	4		
22	36329025	Junctin plate	4139040A		1		
23	36329003	Junction plate bracket	4139041A		1		
24	36329910 (58250511)	Pan head machine screw		M5 x 8	5		
25	36329903 (74306414)	Pan head machine screw		M4 x 8	2		
26	36329901 (10562123)	Pan head machine screw		M3 x 8	8		
27	36329918 (44552819)	Washer		M5	5		
28	36329917 (74300510)	Washer		M4	2		
29	36329916 (74307605)	Washer		M3	8		
30	36329924 (44027927)	Spring washer		M5	5		
31	36329926 (44027327)	Spring washer		M4	2		
32	36329922 (74307612)	Spring washer		M3	8		
33	36329930 (13239613)	Nut		M5	2		
34	36329315	Connector – plug		3191-03P	6		

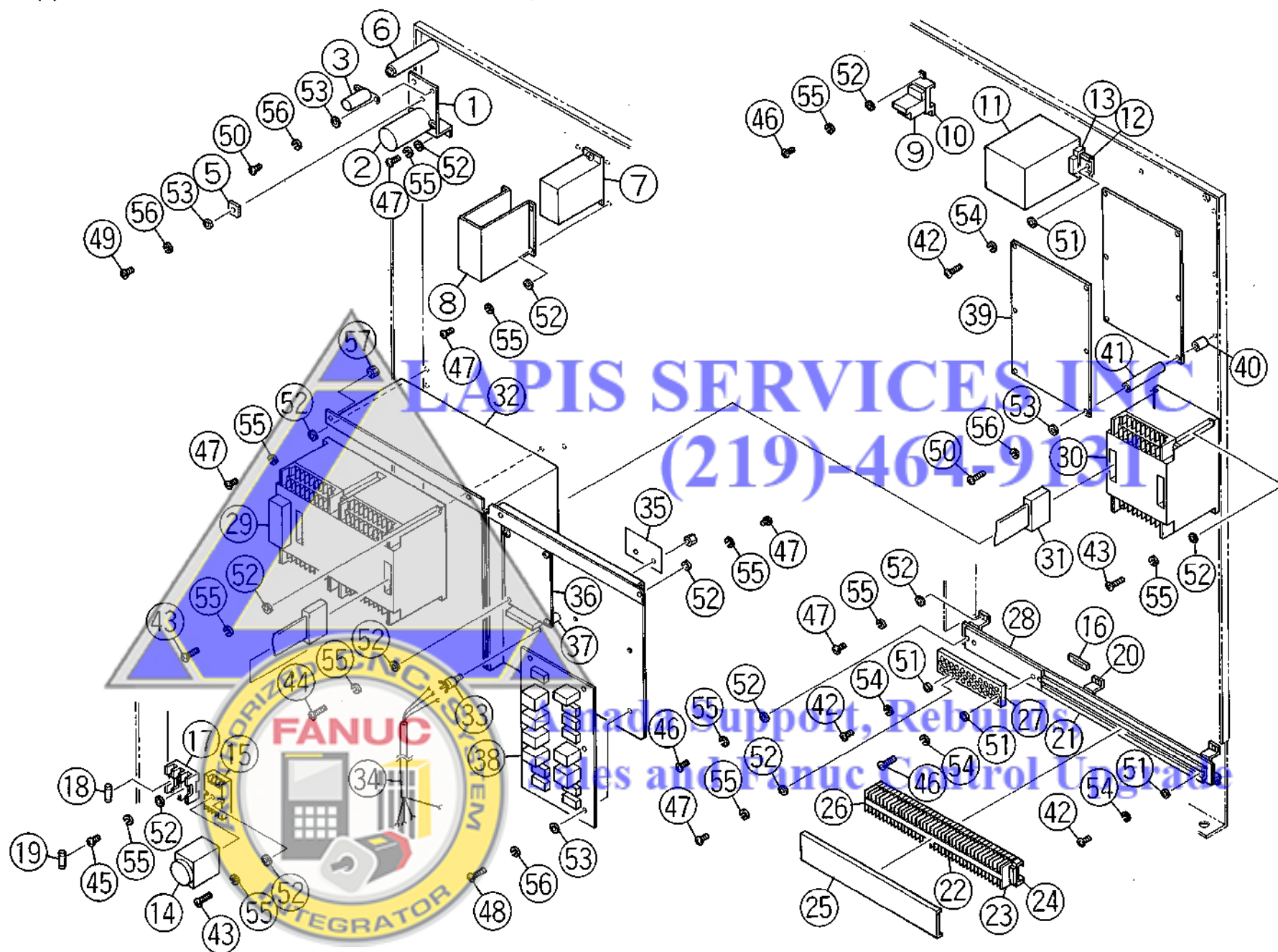


Unit No. **25**
Electric (3) – EUR

* 1 * * 2 * * 3 * * 4 * * 5 * -142- * 7 * * 8 * * 9 * * 0 *

Unit No. 26
Electric (4) – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 26
Electric (4) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329622	Condenser support	4171053		1		
2	36329627	Condenser		10,000μF 50WV	1		
3	36329628	Condenser		SM50LASN-2200	1		
4	36329614	Resistor		RSF-3B 3W 390Ω	1		
5	36329255	Diode		S4VB10	1		
6	36329612	Enamel resistor		RWH0-40G 24ΩJ	1		
7	36357921	Rectifier		RBJ12B-03 (Fuji)	1		
8	36357328	Rectifier cover	6081339		1		
9	36329601	Transformer unit		AHX511-H (Fuji)	1		
10	36329605	Base		AHX326 (Fuji)	1		
11	36329364	Both hand controller		P2HZ/1/110V (Pilz)	1		GmbH
12	36329438	Rail		BAP L=140 (Izumi)	1		GmbH
13	36329501	Retainer		BNL6 (Izumi)	2		GmbH
14	36329250	Timer TR4		ST3PA 0.5~5sec DC24 (Fuji)	1		
15	36329814	Socket		TP28S (Fuji)	1		
16	36329733	Hour meter		TM25A 100-1000	1		
17	36329155	Fuse holder		F7111 (Sato)	3		



-144-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 26
Electric (4) – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36329151	Fuse F2, 4		F7161-8A (Sato)	2		
19	36329150	Fuse F3		F7161-3A (Sato)	1		
20	36329014	Terminal bracket	4139042		1		
21	36329437	Rail		BAP L=350	1		
22	36329231	Block terminal		BN15M	37		
23	36329429	End plate		BNE15	1		
24	36329501	Retainer		BNL6	2		
25	36329336	Terminal cover		BNC22 L=300	1		
26	36329355	Marker sheet		BNM9 L=312	1		
27	36329037	Earth bar	4139043		1		
28	36329019	Earth bar setting plate	4139044A		1		
29	36329631	Sequencer		T40-R/Z (Fuji)	1		
30	36329633	Added sequencer		T24E-R (Fuji)	1		
31	36329141	Cable		UY2112 (Fuji)	1		
32	36329707	Relay setting box	4136077		1		
33	36329648	Volum		RJ-13B 5 kΩ (COPAL)	2		
34	36329647	VR shield wire	4171404		1		



-146-



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36329644	Legend plate	4171419		1		
36	36329512	Controller P.C.B.	7935038A		1		
37	36329509	Bakelite spacer		φ4 x φ7 x 15	4		
38	36329518	Relay P.C.B.	7935045B		1		
39		Relay P.C.B.					
	36329526	GmbH	7935067-1/2		1		
	36329527	GmbH	7935067-2/2		1		
	36329521	UK	7935068A		1		
40	36329245	P.C.B. support		P-12 SN-6 L=15	6		
41	36329246	P.C.B. support		P-12 SN-50 L=59	6		GmbH
42	36329910 (58250511)	Pan head machine screw		M5 x 8 GmbH UK	10 8		
43	36329907	Pan head machine screw		M4 x 20	10		
44	36329906	Pan head machine screw		M4 x 18	4		
45	36329905	Pan head machine screw		M4 x 16	7		
46	36329904	Pan head machine screw		M4 x 12	6		
47	36329903 (74306414)	Pan head machine screw		M4 x 8	45		
48	36329902	Pan head machine screw		M3 x 18	6		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. **26**
Electric (4) – EUR

[illegible]

-150-





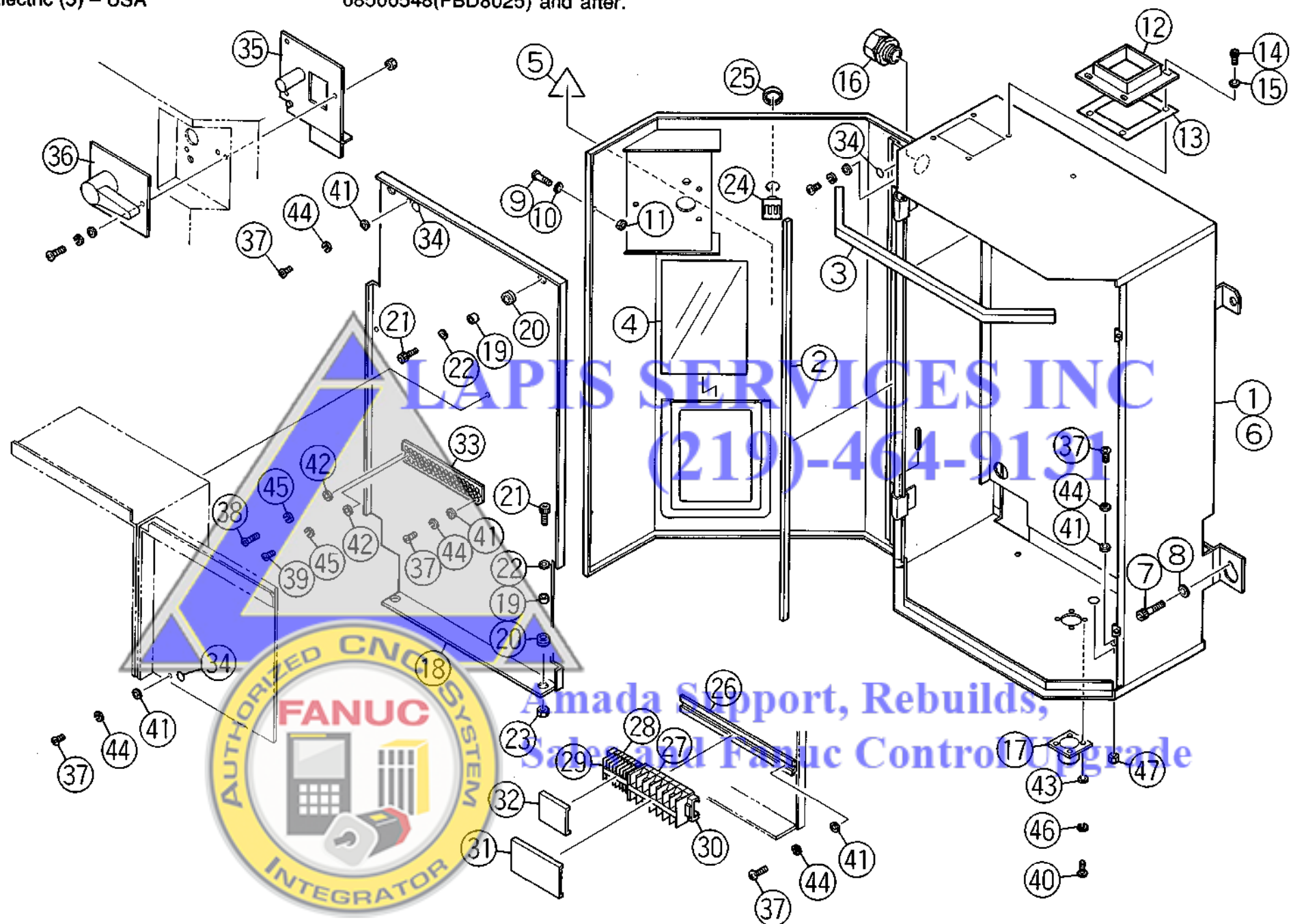
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 27
Electric (5) – USA

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **27**
Electric (5) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329049	Electrical box	4171344		1		
2	36329852	Neoplane sponge		10 x 10 x 751	1		
3	36329854	Neoplane sponge		12 x 15 x 2145	1		
4	36329858	Acrylic resin plate		150 x 213 x 0.5	1		
5	36329344	Electric sticker		IEC-80	1		
6		Sticker					
	36375421 (74326505)	460V/230V		AS-K1000E	1		
	36329892	460V/400V/230V		AS-K1000C	1		
7	36329939 (44028704)	Cap screw		M10 x 20	4		
8	36329915 (74300512)	Washer		M10	4		
9	36329401	Screw	4095509		2		
10	36329921 (74300511)	Washer		M8	2		
11	36329932	Nut		M8 type 3	2		
12	36329408	Duct	4171813A		1		
13	36329539	Rubber packing	4130906B		1		
14	36322513	Cap screw		M5 x 8	4		
15	36329918 (44552819)	Washer		M5	4		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 27
Electric (5) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36329319	Connector		0A-U2 (OHM)	1		
17	36329413	Receptacle		MS3102A-20-27S (JAE)	1		
18	36329053	Apparatus setting plate	4171351A		1		
19	36329421	Ring	4092521		4		
20	36329424	Grommet		NG-79-H (Takigen)	4		
21	36329938 (74307602)	Cap screw		M6 x 16	4		
22	36329921 (74300511)	Washer		M8	4		
23	36329931 (10310352)	Nut		M6	2		
24	36329534	Pilot light		AH22-ZW (Fuji)	1		
25	36375106	Setting ring		AHX749-B black (Fuji)	1		
26	36329432	Rail		BAP L=250 (Izumi)	1		
27	36329230	Block terminal U, V, W, X, Y, Z, PE		BN50 (Izumi)	7		
28	36329231	Block terminal		BN15M (Izumi)	8		
29	36329428	End plate		BNE50 (Izumi)	1		
30	36329501	Retainer		BNL6 (Izumi)	2		
31	36329303	Terminal cover		BNC32 L=120 (Izumi)	1		
32	36329301	Terminal cover		BNC22 L=90 (Izumi)	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

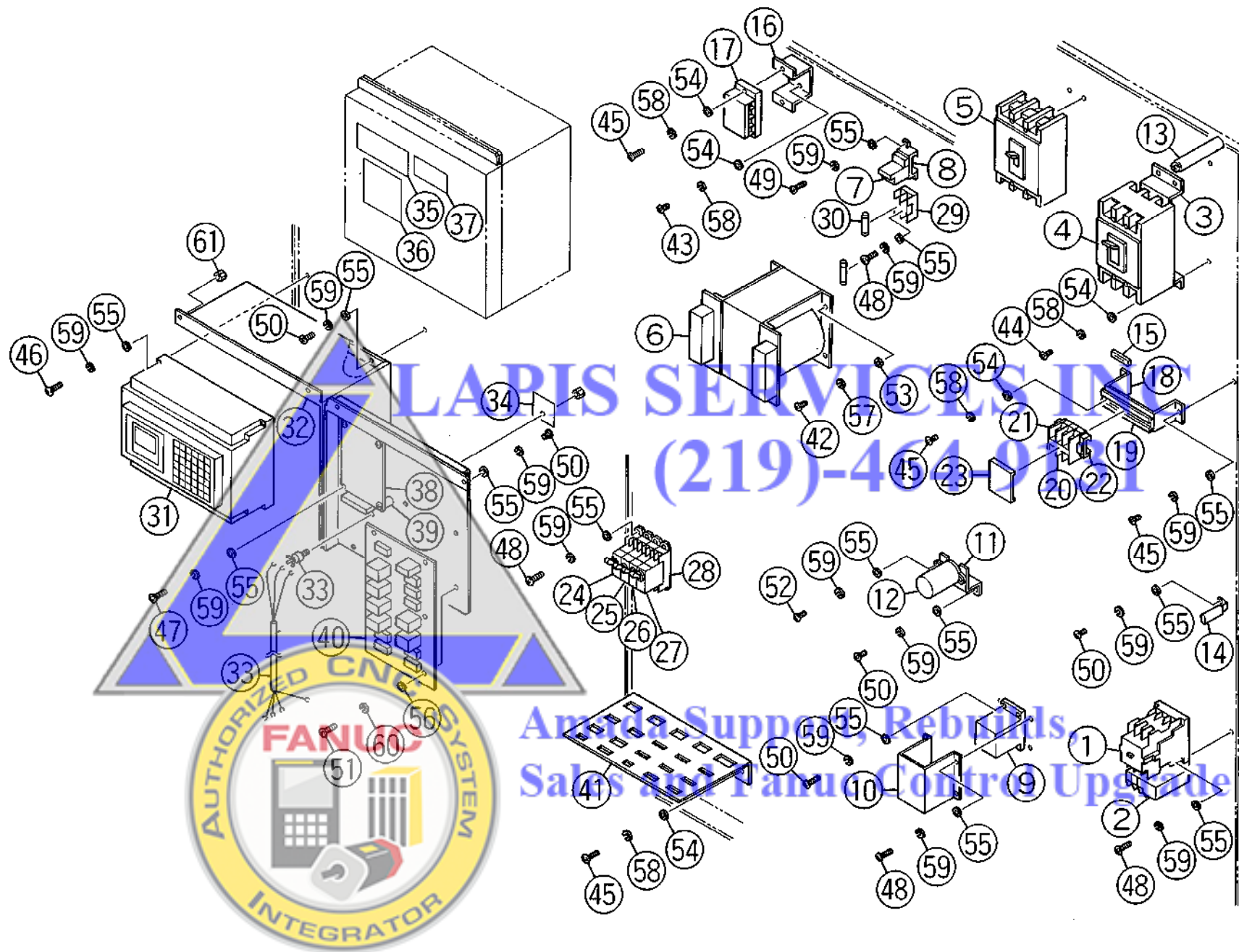
Unit No. 27
Electric (5) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
33	36329038	Earth bar	4171352		1		
34	36329347	Sticker (earth)		AS-K	5		
35	36329504	Retainer		H-1 (Fuji)	1		
36	36329508	G-Handle		BU-GGD (Fuji)	1		
37	36329910 (58250511)	Pan head machine screw		M5 x 8	9		
38	36368521	Pan head machine screw		M4 x 14	2		
39	36329903 (74306414)	Pan head machine screw		M4 x 8	41		
40	36329901 (10562123)	Pan head machine screw		M3 x 8	4		
41	36329918 (44552819)	Washer		M5	9		
42	36329917 (74300510)	Washer		M4	43		
43	36329916 (74307605)	Washer		M3	4		
44	36329924 (44027927)	Spring washer		M5	9		
45	36329926 (44027327)	Spring washer		M4	43		
46	36329922 (74307612)	Spring washer		M3	4		
47	36329930 (13239613)	Nut		M5	2		



Unit No. 28
Electric (6) – USA

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 28
Electric (6) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36329147	Magnet switch MS		SW-2N 3 ϕ 5.5 kW AC100V (Fuji)	1		
2		Thermal relay TH					
	36329459	230		3 ϕ 5.5 kW 230V (Fuji)	1		
	36329460	460		TR-2N 3 ϕ 5.5 kW (Fuji)	1		
3	36329064	Circuit breaker base	4171353				
4		Circuit breaker NFB1					
	36329561	230		BU-ESA3060L 230V (Fuji)	1		
	36329554	460		BU-ESA3040L 460V (Fuji)	1		
5		Motor breaker NFB2					
	36329566	230		BU-ECA3030L 230V (Fuji)	1		
	36329558	460		BU-ESA3015L 460V (Fuji)	1		
6	36329609	Transformer Tr		TL-SA4M-75 665VA (Aporo)	1		
7	36329601	Transformer unit		AHX511-H (Fuji)	1		
8	36329605	Base		AHX326 (Fuji)	1		
9	36357921	Rectifier Rf		RBJ12B-03 (Fuji)	1		
10	36357328	Rectifier cover	6081339		1		
11	36329624	Condenser support	4135207		1		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 28
Electric (6) - USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
12	36329627	Condenser		10,000 μ F 50WV (RUBICON)	1		
13	36329611	Enamel resistor		RWH0S40 100 Ω J (NIPPON PARTS)	1		
14	36329617	Noise filter		SI-B-0 (Okaya)	1		
15	36329733	Hour meter		TM25A 10-1000 (Fuji Ceramic)	1		
16	36329015	Terminal bracket B	4139340A		1		
17	36329242	Block terminal L1, 2, 3, PE		BTB5004 (Izumi)	1		
18	36329060	Terminal base	4171354		1		
19	36329440	Rail		BAP L=112.5 (Izumi)	1		
20	36329230	Block terminal R, S, T		BN50 (Izumi)	1		
21	36329428	End plate		BNE50 (Izumi)	1		
22	36329501	Retainer		BNL6 (Izumi)	2		
23	36329341	Terminal cover		BNC32 L=50 (Izumi)	1		
24	36329123	Circuit protector		CP31EM/3 3A (Fuji)	1		
25	36329124	Circuit protector		CP31EM/7.5 7.5A (Fuji)	1		
26	36329125	Circuit protector		CP31EM/2.5DC 2.5A (Fuji)	1		
27	36329118	Circuit protector		CP31EM/5DC 5A (Fuji)	1		
28	36329815	Socket		CP-S1	4		

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 28
Electric (6) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
29	36329156	Fuse block		30312 (Gould)	1		
30		Fuse					
	36329152	230V		ATM8 (Gould)	2		
	36329153	460V		ATM6 (Gould)	2		
31	36329634	Sequencer	7935102		1		
32	36329707	Relay setting box	4136077		1		
33	36329651	VR Shield wire ass'y	4173967		1		
34	36329652	Legend plate (volume)	4173508		1		
35	36329349	Sticker	4171449		1		
36	36375422	Sticker		AS-K1001-H	1		
37	36375424	Sticker		AS-K1007-A	1		
38	36329512	Controller P.C.B.	7935038A		1		
39	36329509	Bakelite spacer		Φ4 x Φ7 x 15	4		
40	36329523	Relay P.C.B.	7935100		1		
41	36329711	Junction plate	4136084A		1		
42	36329911 (74303113)	Pan head machine screw		M6 x 8	4		
43	36329958	Pan head machine screw		M5 x 20	2		



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
44	36334229 (74305017)	Pan head machine screw		M5 x 10	4		
45	36329910 (58250511)	Pan head machine screw		M5 x 8	8		
46	36329907	Pan head machine screw		M4 x 20	4		
47	36329906	Pan head machine screw		M4 x 18	4		
48	36329905	Pan head machine screw		M4 x 16	12		
49	36329904	Pan head machine screw		M4 x 12	2		
50	36329903 (74306414)	Pan head machine screw		M4 x 8	12		
51	36329902	Pan head machine screw		M3 x 18	6		
52	36329901 (10562123)	Pan head machine screw		M3 x 8	2		
53	36329920 (44027930)	Washer		M6	4		
54	36329918 (44552819)	Washer		M5	14		
55	36329917 (74300510)	Washer		M4	38		
56	36329916 (74307605)	Washer		M3	8		
57	36329925 (44027928)	Spring washer		M6	4		
58	36329924 (44027927)	Spring washer		M5	14		
59	36329926 (44027927)	Spring washer		M4	38		
60	36329922 (74307612)	Spring washer		M3	8		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 28
Electric (6) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
61	36329929	Nut		M4	2		
62	36329315	Connector – plug		3191-03P (Molex)	6		
63	36329316	Connector – plug		3191-04P (Molex)	2		
64	36329317	Connector – plug		3191-09P (Molex)	2		
65	36329318	Connector – plug		3191-15P (Molex)	1		
66	36329716	Connector – terminal		1190TL (Molex)	7		
67	36329717	Connector – terminal		1380TL (Molex)	44		
68	36329128	Cable		IV 2 mm ² black 1 m	1		
69	36329129	Cable		IV 2 mm ² yellow/green 3 m	1		
70	36329136	Cable		KIV 0.75 mm ² red 30 m	1		
71	36329137	Cable		KIV 0.75 mm ² blue 30 m	1		
72	36329135	Cable		KIV 0.5 mm ² blue 2 m	1		
73	36329203	Lug terminal		2-5	4		
74	36329202	Lug terminal		2-4	7		
75	36329217	Lug terminal		F1.25-4	100		
76	36329721	Marker tube		1.25 mm ² 2 m	1		

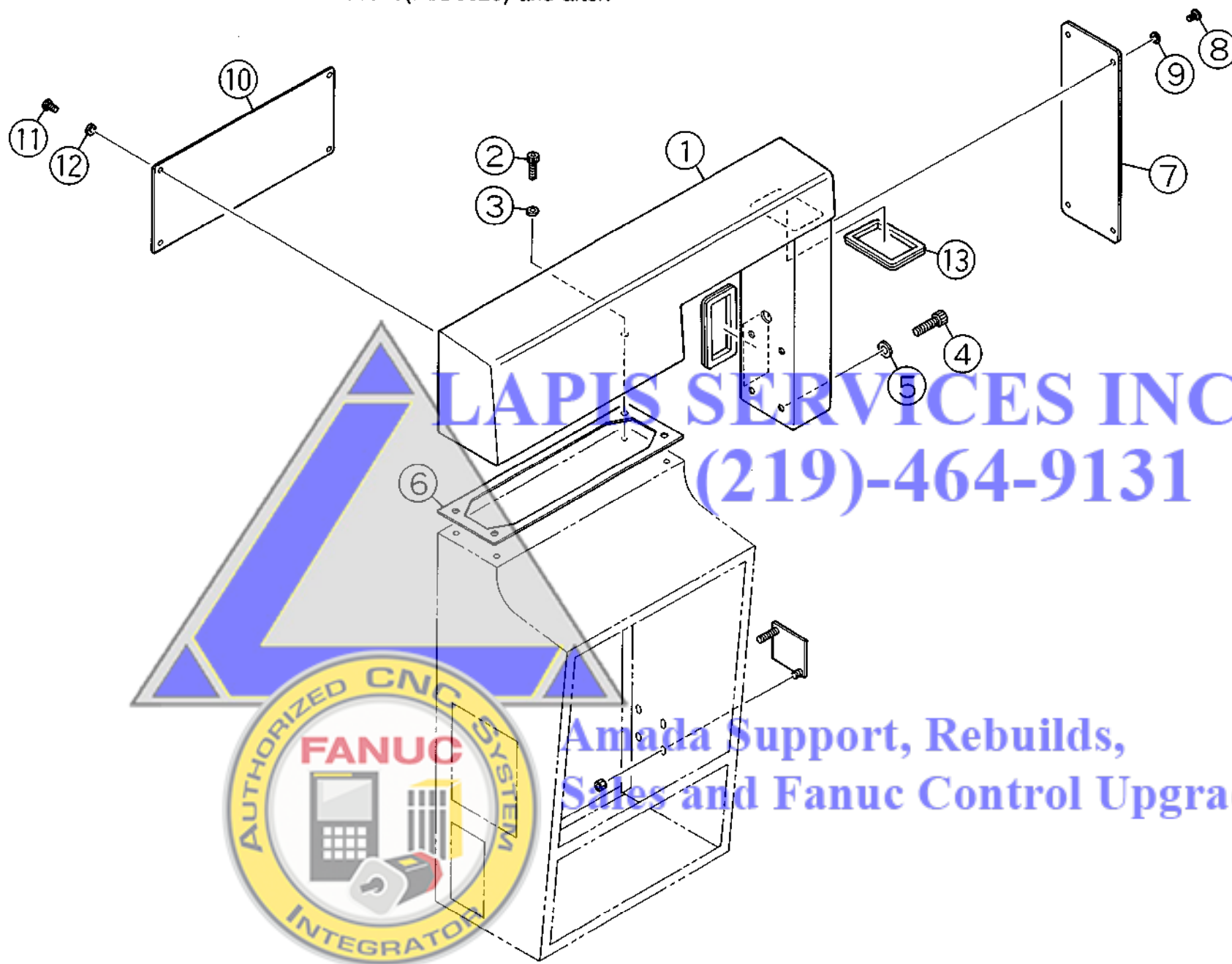


-166-



Unit No. 29
Arm – 8020

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **29**
Arm - 8020

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Arm					
	36331006	EUR	4139592A		1		
	36331003	USA	4136720B		1		
2	36331112 (73157630)	Cap screw		M8 x 15	2		
3	36328928 (74300511)	Washer		M8	4		
4	36331113 (74314414)	Cap screw		M10 x 15	4		
5	36329915 (74300512)	Washer		M10	4		
6	36331008	Packing	4135960		1		
7	36331017	Cover	4136722		1		
8	36329912	Pan head machine screw		M6 x 10	4		
9	36322531 (44027930)	Washer		M6	4		
10		Cover					
	36331011	EUR	4170576		1		
	36331014	USA	4136721		1		
11	36329912	Pan head machine screw		M6 x 10	4		
12	36322531 (44027930)	Washer		M6	4		
13	36331026	Grommet		CSG-03 L=530	1		

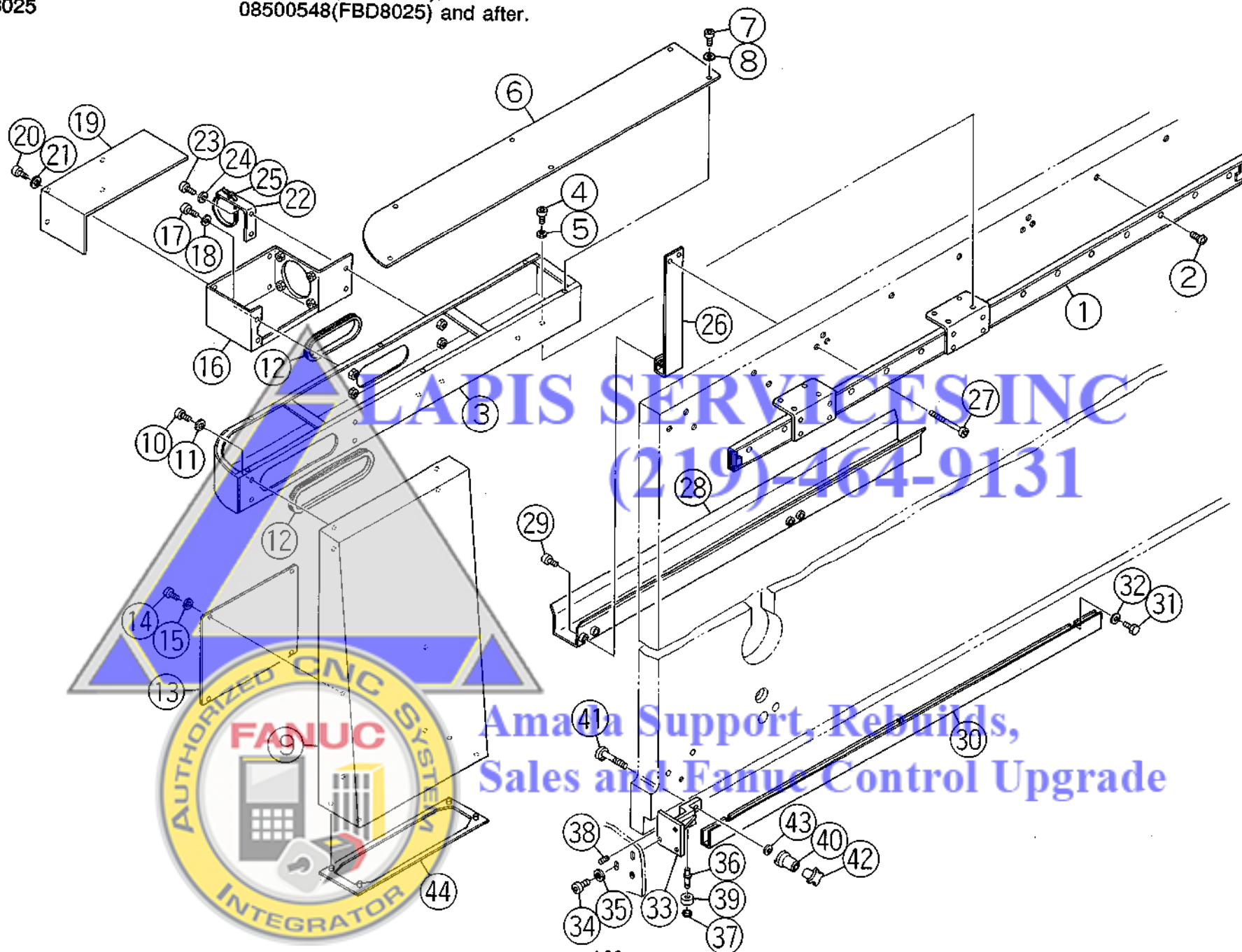


-168-



Unit No. 30
Rail - 8025

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 30
Rail - 8025

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36334622	Slide pack	7937100		1		
2	36334818	Button head machine screw		M6 x 10 loc-wel (unbrako)	7		
3	36334709	Arm	4138420		1		
4	36322513	Cap screw		M5 x 8	8		
5	36329923 (44027927)	Spring washer		M5	8		
6	36334701	Arm cover	4138422		1		
7	36334229 (74305017)	Pan head machine screw		M5 x 10	6		
8	36329918 (44552819)	Washer		M5	6		
9	36334601	Front duct	4136779A		1		
10	36331112 (73157630)	Cap screw		M8 x 15	4		
11	36328928 (74300511)	Washer		M8	4		
12	36334631	Grommet		CSG-032 L=910	1		
13	36334705	Cover	4138419		1		
14	36334229 (74305017)	Pan head machine screw		M5 x 10	4		
15	36329918 (44552819)	Washer		M5	4		
16	36334634	Duct	4138421		1		
17	36331112 (73157630)	Cap screw		M8 x 15	6		



-170-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 30
Rail - 8025

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36327610 (10001521)	Spring washer		M8	6		
19	36334801	Duct cover	4138427		1		
20	36334229 (74305017)	Pan head machine screw		M5 x 10	4		
21	36329918 (44552819)	Washer		M5	4		
22	36334713	Angle	4138423		1		
23	36334823 (44235241)	Cap screw		M8 x 20	2		
24	36327610 (10001521)	Spring washer		M8	2		
25	36334805	Band		PLT-31	1		
26	36334628	Hanger	4138430		2		
27	36334824 (37014514)	Cap screw		M8 x 65	4		
28	36334615	Cable guide	4138432		1		
29	36323009 (74300604)	Cap screw		M6 x 15	4		
30	36334612	Rail	4136885A		1		
31	36334819 (74303201)	Bolt		M6 x 15	3		
32	36322531 (44027930)	Washer		M6	3		
33	36366823	Roller bracket	4171127		1		
34	36329937	Cap screw		M8 x 10	3		



Unit No. **30**
Rail - 8025

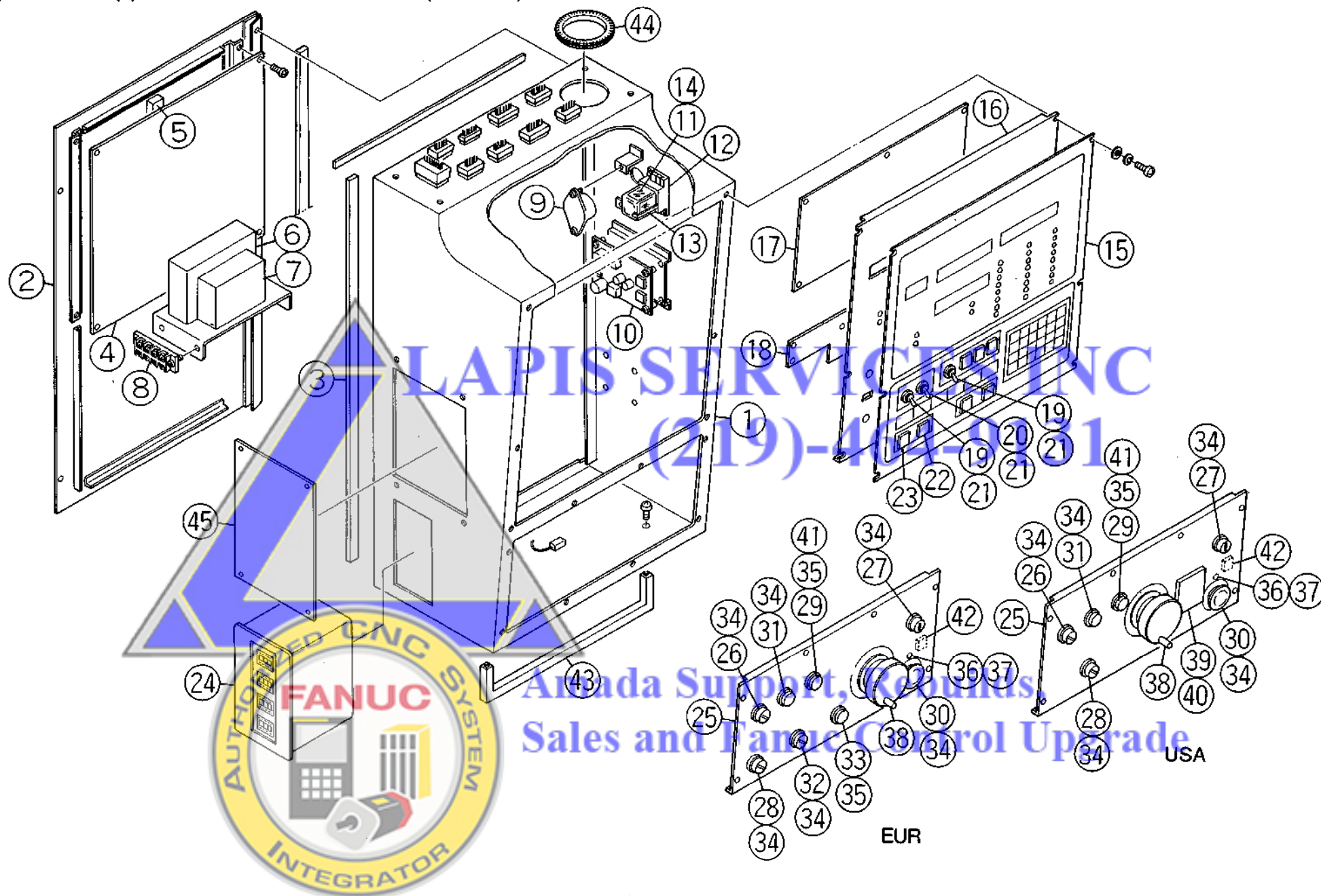
[illegible]

-174-



Unit No. 31
Operation box (1)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 31
Operation box (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36358601	Control box	205946305D		1		
2	36358602	Rear cover	205946303D		1		
3	36358612	Packing	405946404A		1		EUR
4	36358635	CPU board	206595550A	S-6897C	1		
5	36358611	PWB spacer	405946402A		1		
6	36358701	Power supply		SS50-05 (Stanley)	1		
7	36358702	Power supply		SS25 (Stanley)	1		Option
8		Block terminal TB4			1		
9	36183330	Buzzer		EB2114 DC24V (Matsushita)	1		
10	36358638	REG board	446721	S-2852	1		
11	36378418	Relay		MY2-1024E (OMRON)	1		
12	36378419	Relay socket		PYF08A (OMRON)	1		
13	36378420	Relay holder		PYC-A1 (OMRON)	1		
14	36358708 (74369308)	Diode		V06C (Hitachi)	1		
15	36358616	Sheet panel	206595402F		1		
16	36358618	Panel support	205946307A		1		
17	36358641	PAN unit board	306595534A	S-6898A	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **31**
Operation box (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36358644	Key board	306595534A	S-6899A	1		
19	36330735	Toggle switch SW1, 3		S-2A	2		
20	36330736	Toggle switch SW2		S-3A	1		
21	36173555	Toggle switch cap		AT402	3		EUR
22	36330748	Switch SW13		MHM-1S0RBS1 (MULON)	1		
23	36330750	Switch SW12		MHM-1S0GBS1 (MULON)	1		
24	36358712	Reversible counter		SCR04S (TOKEN)	1		
25		Control panel					
	36358662	EUR	305946313A		1		
	36358661	USA	305946304B		1		
	36358663	CHINA	305946316A		1		
26	36359113	Switch SS1		AH22-J2B20A (Fuji)	1		
27	36359116	Switch SS10		AH22-JC7G143A (Fuji)	1		
28		Switch SS11					
	36330429	EUR		AH22-JC3C142A (Fuji)	1		
	36359117	USA		AH22-JC4A412A (Fuji)	1		
29	36359102	Switch PB2		AH22-GL1G10H (Fuji)	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 31
Operation box (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
30	36359118	Switch PB3		AH22-Q2R-11 (Fuji)	1		
31	36359101	Switch PB1		AH22-FR01 (Fuji)	1		
32	36359117	Switch SS13		AH22-JC4A412A (Fuji)	1		
33	36330553	Switch PB18		AH22-JL1Y10-24V (Fuji)	1		
34	36358718	Setting ring		AHX-749B EUR USA (Fuji)	6 5		
35	36358719	Guard ring		AHX-753C EUR USA (Fuji)	2 1		
36		Light emission diode PL4					
	36358722	EUR		SDB205A red (Stanley)	1		
	36358723	USA		SDB205B red (Stanley)	1		
37	36359740	Resistor R1		1.5 kΩ 1W	1		
38	36358726	Handle pulser		OSM-01-2C (Sansei)	1		
39	36358730	Timer TR3		ST3PA 1~10 sec TX2 US socket (Fuji)	1		
40	36359225	Diode D1, 2		SIB-01-02 (Fuji)	2		
41	36359213	Noise filter NK		Z10L221 (Ishizuka)	1		
42	36359328	Terminal plate TBS		CF-4P	1		
43	36183364	Pull		A-42-A-1 (Takigen)	1		
44		Bushing			1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 31
Operation box (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
45	36358630	Blind plate	400918311B		1		
46	36359310	Connector		1490P1.R1 (Molex)	1		
47	36359301	Connector WCN24		3191-04P (Molex)	2		
48	36359302	Connector WCN7		3191-06P (Molex)	2		
49	36359303	Connector WCN2, 16, 18, 21, 38		3191-09P (Molex)	7		
50	36359304	Connector WCN1		3191-09P (R1) (Molex)	1		
51	36188324	Connector WCN22		3191-12P (Molex)	1		
52	36359305	Connector WCN18		3191-15P (Molex)	21		
53	36359307	Connector WCN19		5025-03R1 (Molex)	1		
54	36359308	Connector		5198-03 (Molex)	1		
55	36359309	Connector		5198-05 (Molex)	1		
56	36358751	Clamp		NK-18N-B (Kitagawa)	1 set		
57	36358752	Cable band		TMS-20 (Kitagawa)	1 set		
58	36358753	Clamp		DKN-05 (Kitagawa)	1 set		
59	36358754	Cable clamp		MFC-1000 (Kitagawa)	1 set		
60	36358760	Spacer		S-1 (Kowa)	1 set		





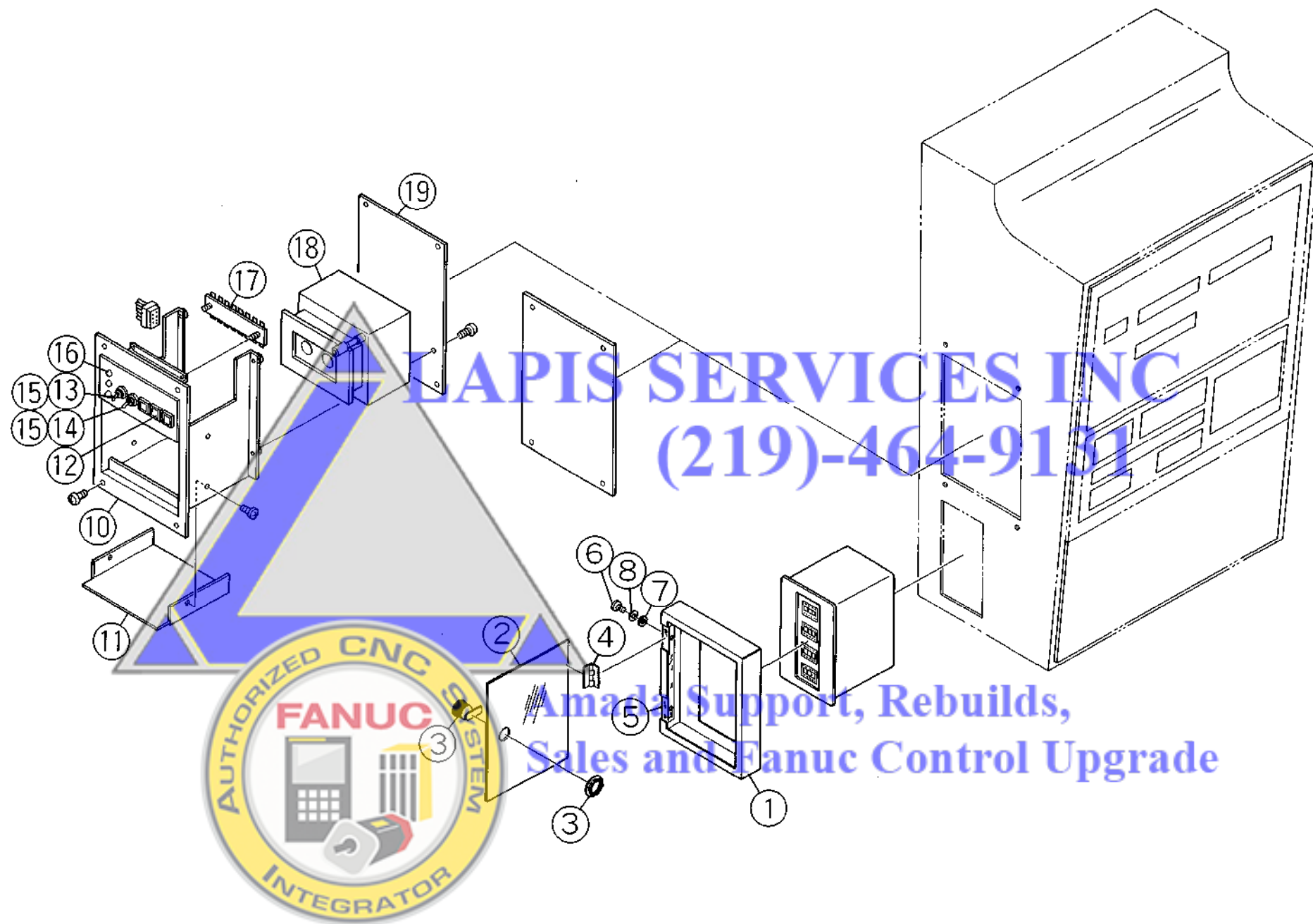
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 32
Operation box (2)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 32
Operation box (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36359024	Counter cover	4170583		1		EUR
2	36359025	Door	4170584		1		EUR
3	36359030	Door lock		C-89-1 (Takigen)	1		EUR
4	36349031	Hinge		BA-106A-2 (Takigen)	2		EUR
5	36359026	Acrylic bar	4170585		1		EUR
6	36329957	Pan head machine screw		M4 x 10	2		EUR
7	36329917	Washer		M4	2		EUR
8	36329926	Spring washer		M4	2		EUR
9	36358647	C.M.T. unit	205946508A		1 set		option
10	36358634	Cassette-deck chassis	300918407C 205946306B		1		option
11	36358632	Cassette cover	400918319C		1		option
12	36330746 (36004326)	Switch SW1, 2, 3		MHM-1-S-4-M-B-S1	3		option
13	36358735 (36004335)	Toggle switch SW4		S-2A with ring	1		option
14	36358736	Toggle switch SW5		S-308 with ring	1		option
15	36358764	Toggle switch cap		AT402	2		option
16		Light emission diode					option
	36330726	EUR		SDB205A green	1		option



Unit No. **32**
Operation box (2)

[illegible]

-186-





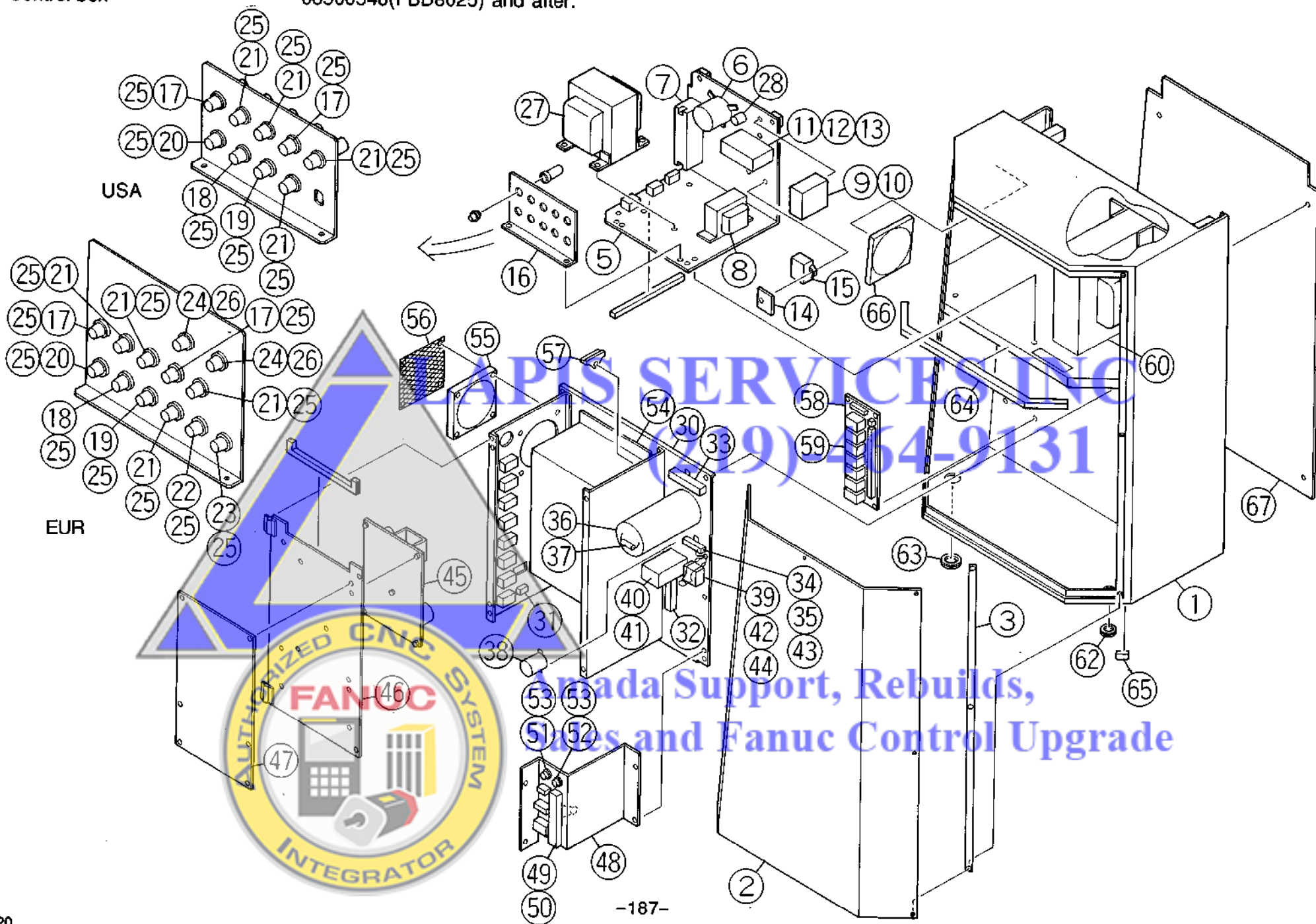
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 33
Control box

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 33
Control box

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36359601	Electrical box	205946301B		1		
2	36359602	Box cover	200918303E		1		
3	36358613	Packing	405946403A		1		EUR
4	36359645	Power unit	305946509C		1 set		
5	36359608	Power unit base	206595305C		1		
6	36183620	Noise filter NF1		SSCD-3000	1		
7	36358108	Block terminal TB1		K05-8P with cover (Kohwa)	1		
8		Transformer T1		(SEL)	1		
9	36359701	Magnet switch Mg			1		
10	36183617	Setting unit		BW9204 (National)	1		
11	36183624 (36004343)	Relay R1		MY2-1008C (OMRON)	1		
12	36378419	Socket		PYF08A (OMRON)	1		
13	36378420	Holder		PYC-A1 (OMRON)	1		
14	36359328	Block terminal TB		CF-4P (Morimatu)	1		
15	36183621	Noise filter NF2		SSKF-0500 (National)	1		
16		Fuse bracket					
	36359614	EUR	305946310B		1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 33
Control box

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36359613	U.S.A.	306595313A		1		
17	36183715	Fuse F1, 4		NF61NR 6A (Toyo)	2		
18	36183714	Fuse F7		NF61NR 2.5A (Toyo)	1		
19	36183713	Fuse F8		NF61NR 2A (Toyo)	1		
20	36183712	Fuse F6		NF61NR 1.5A (Toyo)	1		
21	36183711	Fuse F2, 3, 5, 9		NF61NR 0.5A (Toyo)	4		
22	36183713	Fuse F12		NF61NR 2A (Toyo)	1		EUR
23	36183711	Fuse F13		NF61NR 0.5A (Toyo)	1		EUR
24	36330764	Fuse F14, 15		ATM20	2		EUR
25	36183710	Fuse holder		SN-1301 (Showa)	11 9		
26	36330765	Fuse holder		HPD	2		EUR
27	36183705	Transformer T3		272VA (Stanley)	1		
28	36183734	Noise filter SK		YQ-23 (Hitachi)	1		
29	36359648	Servo amplifier unit	205946506B		1 set		
30	36359618	Servo amplifier bracket	205946302B		1		
31	36183722	Block terminal TB3		GM108-2P (Kohwa)	1		
32	36359735	Resistor R1		3.3 kΩ 30W	1		



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
33	36359736	Resistor R2		5.1 kΩ 30W	1		
34		Resistor R3					
	36359737			2.3 kΩ 30W	1		
	36359738			1 kΩ 30W	1		
35	36359739	Resistor R4		1.3 kΩ 2W	1		
36	36359706	Condenser C1		GW200LGSN-2200B	1		
37	36183732	Condenser C2		MD12G-225K (NTK)	1		
38	36183733	Condenser C3		SM250LASN-100B	1		
39	36359710	Rectifier ST1		S10VB40 (Shindengen)	1		
40	36183631	Relay RY2		BW35581 DC100V (National)	1		
41	36183627	Relay setting bracket		BW9154 (National)	1		
42	36183524	Diode D1, 2		U05E (Hitachi)	2		
43		Stud			1		
44	36183622	Noise filter ZNR1		ERZ-C20DK221 (National)	1		
45	36359651	P.C.B. (power)	316769C	S-2854B	1		
46	36359626	P.C.B. plate	306595312C		1		
47		P.C.B. (NC-3B)		(AMT)	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **33**
Control box

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
48	36359625	Connector bracket	306595311B		1		
49	36183622	Noise filter ZNR2		ERZ-C20DK221 (National)	1		
50	36183723	Block terminal TB2		GM108-8P (Kohwa)	1		
51	36183712	Fuse F10		MF61NR 1.5A (Toyo)	1		
52	36359715	Fuse F11		MF61NR 10A (Toyo)	1		
53	36183710	Fuse holder		SN-1301 (Showa)	2		
54		Servo amplifier unit		(AMT)	1 set		
55	36183821	Fan		109S091 (Sanyo)	1		
56	36359631	Fan cover	403482311A		1		
57		Thermostat			1		
58	36359654	P.C.B. (RY01B)	3150147A	S-2774A	1		
59	36359716	Relay R1~7		LYZ-1023 (OMRON)	7		
60	36359725	Transformer T2		1φ 1.0 KVA	1		
61		Flexible bushing			1		
62	36183531	Rubber bushing		NG-79-L	1		
63	36183532	Rubber bushing		NG-79-N	1		
64	36359635	Packing	400918402B		1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **33**
Control box

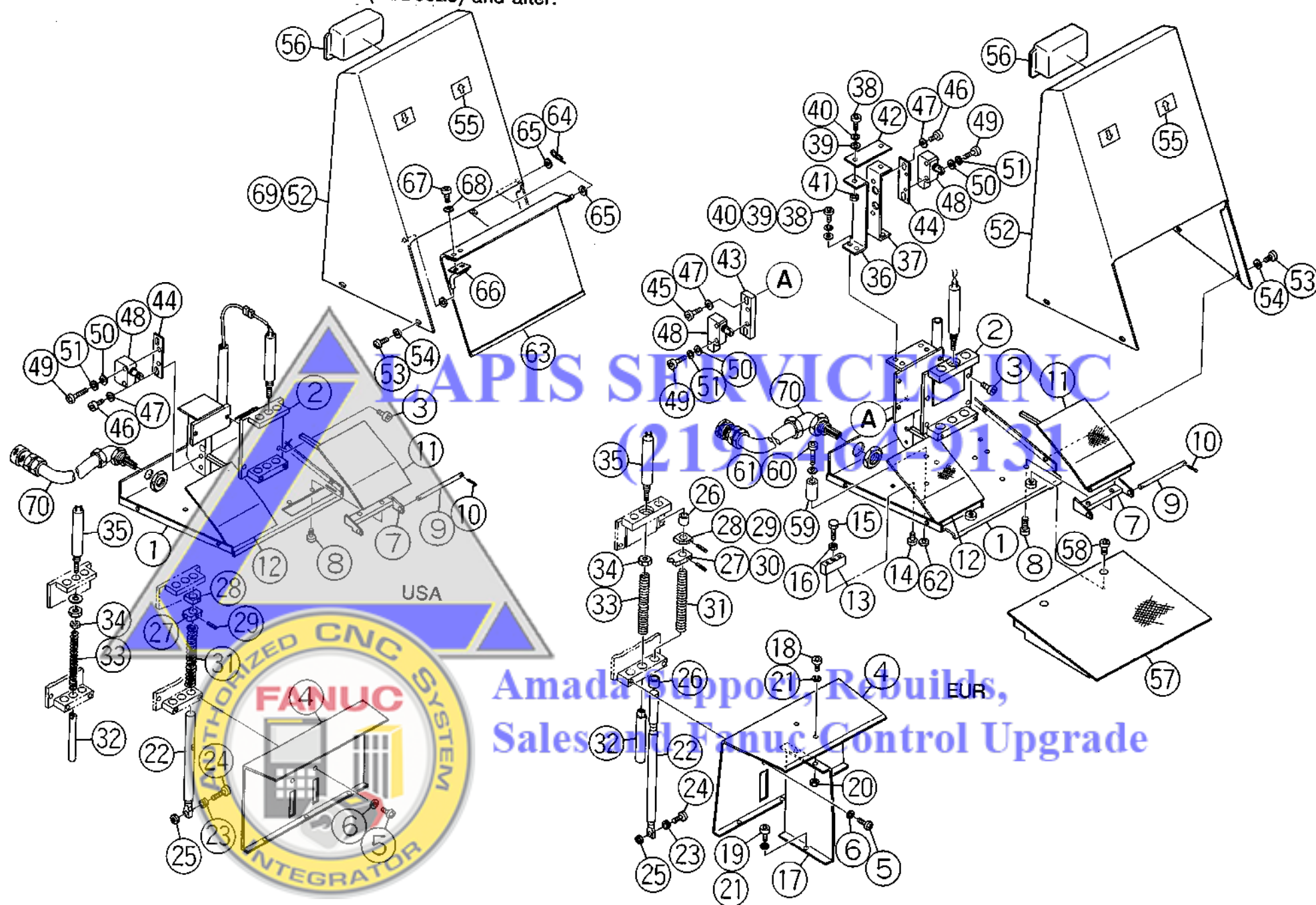
Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
65	36359636	Packing	400918411A		1		
66	36183821	Fan		109S091 (Sanyo)	1		
67	36359640	Rear plate	400918328A		1		
68	36375129	Connector CN1		3191-04R1 (Molex)	1		
69	36375130	Connector CN2		3191-06R1 (Molex)	1		
70	36375119	Connector VCN11		3191-02P (Molex)	2		
71	36359301	Connector VCN12		3191-04P (Molex)	1		
72	36359302	Connector VCN5, 6, 7, 8, 13		3191-06P (Molex)	5		
73	36359303	Connector VCN2, 4, 9		3191-09P (Molex)	3		
74	36183324	Connector VCN3		3191-12P (Molex)	1		
75	36358750	Clamp		NK-18N (Kitagawa)	1 set		
76	36358752	Band		TMS-20 (Kitagawa)	1 set		
77	36358753	Clamp		DKN-05 (Kitagawa)	1 set		
78	36358754	Clamp		MFC-1000 (Kitagawa)	1 set		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. 34
Foot pedal

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **34**
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Base ass'y					
	36331502	EUR	4139119A		1		
	36331504	U.S.A.	4135915B		1		
2		Post					
	36331432	EUR	4139120A		1		
	36331425	U.S.A.	4135066C		1		
3	36331712 (74302813)	Cap screw		M6 x 12	4 2		
4		Separator					
	36331506	EUR	4139121B		1		
	36331505	U.S.A.	4135923B		1		
5		Pan head machine screw					
	36331709 (74306414)	EUR		M4 x 8	5		
	36331707	U.S.A.		M4 x 6	5		
6	36329917 (74300510)	Washer		M4	5		
7		Hinge bracket					
	36331516	EUR	4139122		2		
	36331515	U.S.A.	4135924		2		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **34**
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
8	36323416 (74302812)	Cap screw		M6 x 10	4		
9	36331524	Hinge pin	4135073		2		
10	36331527	Cotter pin		φ1.6 x 12	4		
11		Pedal (right)					
	36331512	EUR	4139126		1		
	36331509	U.S.A.	4135925		1		
12		Pedal (left)					
	36331511	EUR	4139125		1		
	36331510	U.S.A.	4135926		1		
13	36331513	Stopper	4139397		2		EUR
14	36331712 (74302813)	Cap screw		M6 x 12	4		EUR
15	36331713 (10001512)	Bolt		M8 x 25	2		EUR
16	36331123 (10001517)	Nut		M8	2		EUR
17	36331507	Separating plate	4139124		1		EUR
18	36331714 (36322415)	Cap screw		M4 x 8	2		EUR
19	36331707	Cap screw		M4 x 6	1		EUR
20	36329929 (74300501)	Nut		M4	2		EUR



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 34
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
21	36322528 (44027327)	Spring washer		M4	3		EUR
22		Stroke shaft					
	36331410	EUR	4139123		2		
	36331408	U.S.A.	4135062B		2		
23	36331620	Miniture bearing		#WBC8-14ZZA (NTN)	4		
24	36331713 (21415514)	Cap screw		M8 x 25	2		
25	36331123 (10001517)	Nut		M8	2		
26	36331704	Oilless metal bushing		DS1615 (Daido)	4		EUR
27		Flange					
	36331424	EUR	4139132A		2		
	36331423	U.S.A.	4135064		2		
28	36331605	Collar	4135076B		2		
29	36331624 (15143030)	Spring pin		φ3 x 25	2		
30	36331625	Spring pin		φ3 x 20	2		EUR
31	36331629	Coil spring		φ1.4 x φ20 x 130 15	2		
32		Guide bar					
	36331428	EUR	4139130A		1		



-202-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **34**
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36331424	U.S.A.	4135065		1		
33		Coil spring					
	36331630	EUR		Φ1.4 x Φ20 x 105 14	1		
	36331628	U.S.A.		Φ0.8 x Φ12 x 130 20	1		
34		Nut					
	36331610	EUR	4139129		1		
	36331609	U.S.A.	4135077		1		
35		Potentiometer					
	36331406	EUR	7935064		1		
	36331405	U.S.A.	7935040		1		
36	36331517	Bracket I	4139134A		1		EUR
37	36331518	Bracket II	4139135		1		EUR
38	36331716	Cap screw		M5 x 12	6		EUR
39	36329918 (44552819)	Washer		M5	6		EUR
40	36329923 (44027927)	Spring washer		M5	6		EUR
41	36329930 (13239613)	Nut		M5	6		EUR
42	36331503	Plate	4139133		1		EUR



-204-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **34**
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
43	36331417	Limit switch holder	4139131		2		EUR
44	36331416	Limit switch holder	4135063	EUR USA	1 2		
45	36331717 (74302815)	Cap screw		M6 x 20 EUR	4		EUR
46	36331712 (74302813)	Cap screw		M6 x 12 EUR USA	2 4		
47	36322531 (44027930)	Washer		M6 EUR USA	6 4		
48	36331420	Limit switch		SL1-A (Yamatake) EUR USA	3 2		
49	36331708	Pan head machine screw		M4 x 22 EUR USA	6 4		
50	36329917 (74300510)	Washer		M4 EUR USA	6 4		
51	36322528 (44027327)	Spring washer		M4 EUR USA	6 4		
52		Cover ass'y					
	36331402	EUR	4139116		1		
	36331403	U.S.A.	4135917B		1		
53	36331707	Pan head machine screw		M4 x 6	5		
54	36329917 (74300510)	Washer		M4	5		
55	36331520	Sticker (up-down)	4005299		2		
56	36331633	Pull		A-166-1 (Takigen)	1		
57	36331607	Step	4139136		1		EUR



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **34**
Foot pedal

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
58	36331718	Cap screw		M8 x 16	2		EUR
59	36331514	Stopper	4173288		1		EUR
60	36322512	Cap screw		M4 x 30	1		EUR
61	36329917 (74300510)	Washer		M4	1		EUR
62	36329929	Nut		M4 type 1	1		EUR
63	36331602	Guard	4136043C		1		U.S.A.
64	36331701	Snap pin		SSP-8	1		U.S.A.
65	36328928 (74300511)	Washer		M8	3		U.S.A.
66	36331531	Handle	4135074A		1		U.S.A.
67	36331712 (74302813)	Cap screw		M6 x 12	2		U.S.A.
68	36322531 (44027930)	Washer		M6	2		U.S.A.
69	36360034	Sticker (DC24V)	4171621		1		U.S.A.
70		Cable ass'y					
	36331617	EUR	4139084		1		
	36331622	U.S.A.	4171612		1		





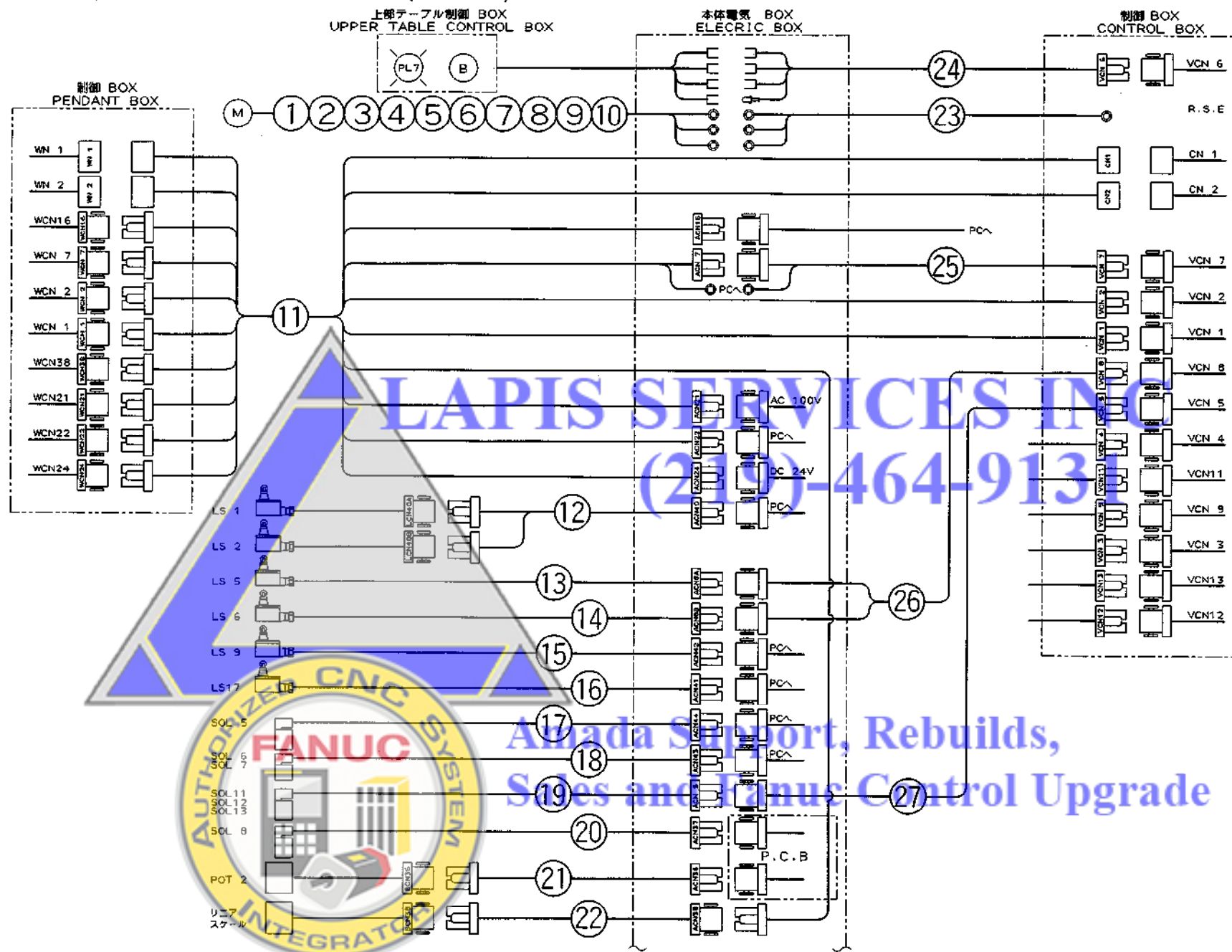
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 35
Electric wiring (1)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **35**
Electric wiring (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Motor cable					
	36333737	EUR - 8020		IV 5.5 mm ² black L=1.9 m	6		
	36333738	- 8025		IV 5.5 mm ² black L=2.15 m	6		
	36333702	USA - 8020		IV 5.5 mm ² black L=2.6 m	6		
	36333703	- 8025		IV 5.5 mm ² black L=3.1 m	6		
2		Motor cable					
	36333745	EUR - 8020		IV 5.5 mm ² yellow/green 1.9 m	1		
	36333746	- 8025		IV 5.5 mm ² yellow/green 2.15 m	1		
	36333708	USA - 8020		IV 5.5 mm ² yellow/green 2.6 m	1		
	36333709	- 8025		IV 5.5 mm ² yellow/green 3.1 m	1		
3		Flexible tube					
	36333753	EUR - 8020		PF-25 L=1.3 m	1		
	36333754	- 8025		PF-25 L=1.55 m	1		
	36333719	USA - 8020		PF-25 L=2.1 m	1		
	36333720	- 8025		PF-25 L=2.6 m	1		
4	36333729	Connector		CSG-25	1		
5	36333734	Insulating bushing		B-28	1		



-210-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 35
Electric wiring (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
6	36333803	Terminal bushing		FTB-25	1		
7	36333810	Connector collar		CC-25	1		
8	36333817	Saddle		CH-25	1		
9	36334229 (74305017)	Pan head machine screw		M5 x 10	1		
10	36333824	Lug terminal		5.5 mm ²	14		
11		Control box cable ass'y					
	36333842	EUR - 8020	4139720		1 set		
	36333838	- 8025	4139111A		1 set		
	36333859	USA - 8020	4171750		1 set		
	36333860	- 8025	4171765A		1 set		
12		ABCN40 cable ass'y					
	36333536	8020	4171689		1 set		
	36333537	8025	4171690		1 set		
13		ABCN8A cable ass'y					
	36333508	8020	4172138		1 set		
	36333509	8025	4172139		1 set		
14		ABCN8B cable ass'y					



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **35**
Electric wiring (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36333512	8020	4172142		1 set		
	36333513	8025	4172143		1 set		
15		ABCN42 cable ass'y					
	36333547	8020	4172126		1 set		
	36333548	8025	4172127		1 set		
16	36333543	ABCN41 cable ass'y	4171693		1 set		
17		ABCN44 cable ass'y					
	36334151	EUR - 8020	4138385A		1 set		
	36334152	-8025	4138386A		1 set		
	36333561	USA - 8020	4172134		1 set		
	36333562	-8025	4172135		1 set		
18		ABCN43 cable ass'y					
	36333554	8020	4172130		1 set		
	36333555	8025	4172131		1 set		
19		ABCN5 cable ass'y					
	36333502	8020	4172151		1 set		
	36333503	8025	4172152		1 set		



-214-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **35**
Electric wiring (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
20		ABCN37 cable ass'y					
	36333526	8020	4172159		1 set		
	36333527	8025	4172160		1 set		
21		ABCN36 cable ass'y					
	36333519	8020	4172155		1 set		
	36333520	8025	4172156		1 set		
22	36333532	ABCN38 cable ass'y	4172180		1 set		
23	36333866	Power cable ass'y	4172165		1 set		
24	36333637	AVCN6 cable ass'y	4172162		1 set		
25	36333639	AVCN7 cable ass'y	4172163		1 set		
26	36333641	AVCN8 cable ass'y	4171732		1 set		
27	36333635	AVCN5 cable ass'y	4171730		1 set		

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

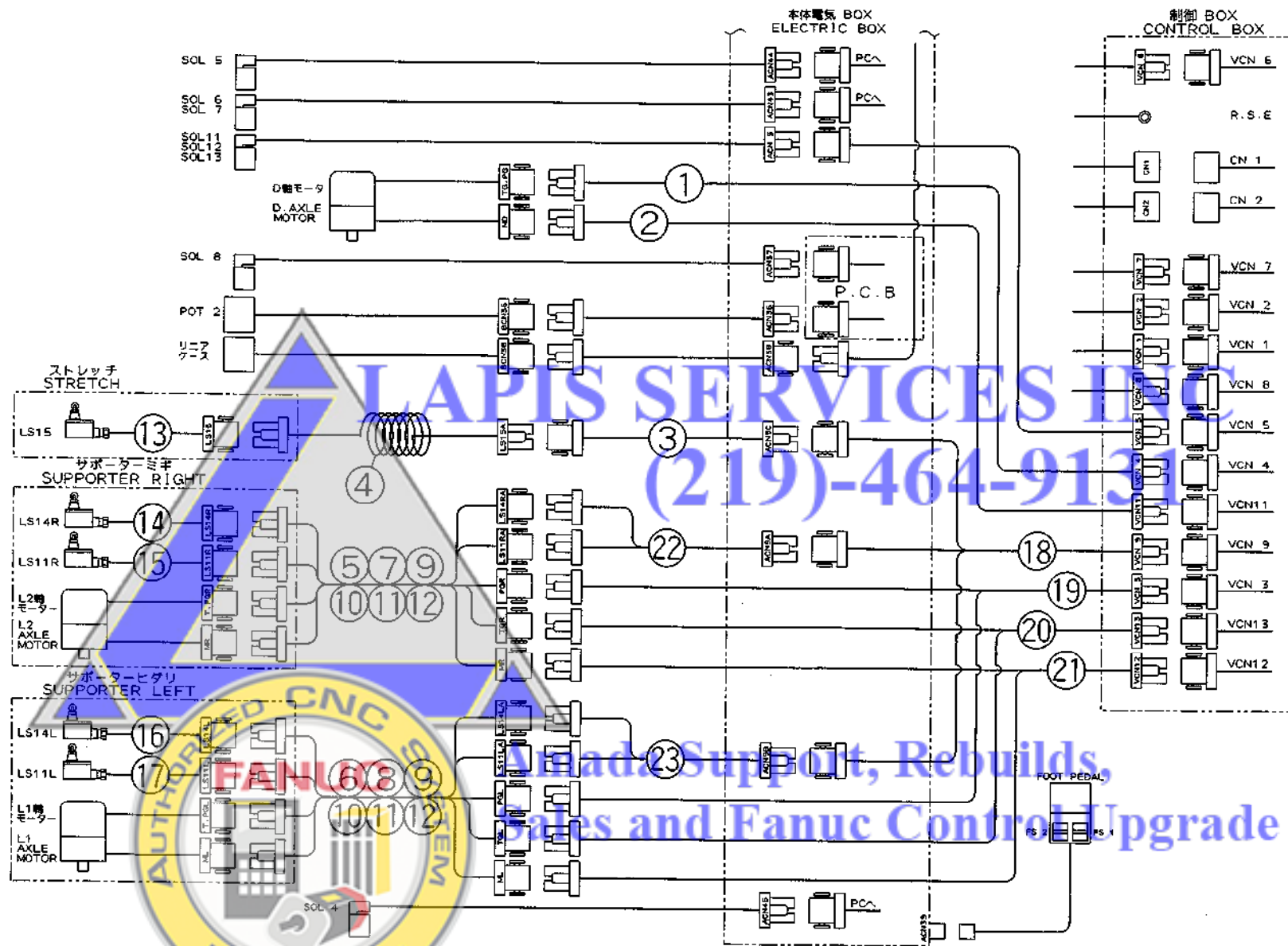




LAPIS SERVICES INC
(219)-464-9131



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



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 36
Electric wiring (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		VBCN4 cable ass'y					
	36333624	8020	4172168		1 set		
	36333625	8025	4172169		1 set		
2		VBCN11 cable ass'y					
	36333630	8020	4171742		1 set		
	36333631	8025	4171743		1 set		
3		ACN9C cable ass'y					
	36333608	8020	4171724		1 set		
	36333609	8025	4171725		1 set		
4		Coil tube ass'y					
	36333960	8020	4131631A		1 set		
	36333961	8025	4131632		1 set		
5	36333614	Support cable ass'y	R 4171674		1 set		
6	36333667	Support cable ass'y	L 4171676		1 set		
7		Cable (earht)	R				
	36334429	8020		IV 1.25 mm ² yellow/green 4.5 m	1		
	36334430	8025		IV 1.25 mm ² yellow/green 5.0 m	1		



-218-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 36
Electric wiring (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
8	36333748	Cable (earth) L		IV 1.25 mm ² yellow/green 1.8 m	1		
9	36329217	Lug terminal		1.25-4	4		
10	36329721	Marker tube		1.25	4		
11	36368503	Pan head machine screw		M4 x 6	2		
12	36322528 (44027327)	Spring washer		M4	2		
13		LS-15 cable ass'y					
	36334302	8020	4129297C		1 set		
	36334303	8025	4129298C		1 set		
14	36333619	LS14R cable ass'y	4171715		1 set		
15	36333617	LS11R cable ass'y	4171735		1 set		
16	36333620	LS14L cable ass'y	4171716		1 set		
17	36333618	LS11L cable ass'y	4171736		1 set		
18	36333643	AVCN9 cable ass'y	4171728		1 set		
19		VGCN3 cable ass'y					
	36333647	8020	4172172		1 set		
	36333648	8025	4172173		1 set		
20		VGCN13 cable ass'y					



Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36333661	8020	4172176		1 set		
	36333662	8025	4172177		1 set		
21		VGCN12 cable ass'y					
	36333654	8020	4171746		1 set		
	36333655	8025	4171747		1 set		
22		ACN9A cable ass'y					
	36333602	8020	4171718		1 set		
	36333603	8025	4171719		1 set		
23	36333606	ACN9B cable ass'y	4171722		1 set		
24		Cable SOL-9					EUR
	36334402	EUR - 8020		VCT 1.25 mm ² 3c L=2.6 m	1		EUR
	36334403	-8025		VCT 1.25 mm ² 3c L=3.0 m	1		EUR
25		Cable LS21					EUR
	36334402	EUR - 8020		VCT 1.25 mm ² 3c L=2.6 m	1		EUR
	36334403	-8025		VCT 1.25 mm ² 3c L=3.0 m	1		EUR
26	36334439	Lug terminal		1.25-3	6		EUR
27	36334440	Lug terminal		F1.25-3.5	6		EUR

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **36**
Electric wiring (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
28	36334435	Marker tube		1.25 mm ²	12		EUR
29	36333731	Connector		0A-1	1		EUR
30		Cable Elec. box 1 – 2					EUR
	36334409	EUR – 8020		VCT 1.25 mm ² 600V 10c L=3.8 m	1		EUR
	36334410	– 8025		VCT 1.25 mm ² 600V 10c L=4.3 m	1		EUR
31	36334441	Lug terminal		F1.25-3.5 Y type	20		EUR
32	36334435	Marker tube		1.25 mm ²	20		EUR
33		Cable Elec. box 1 – NC box					EUR
	36334415	EUR – 8020		VCT 2 mm ² 600V 3c L=5.5 m	1		EUR
	36334416	– 8025		VCT 2 mm ² 600V 3c L=6 m	1		EUR
34	36334442	Lug terminal		2-S4	3		EUR
35	36334443	Lug terminal		2-5	3		EUR
36	36334436	Marker tube		2 mm ²	6		EUR
37	36334055	ABCN61 cable ass'y	4139693		1 set		EUR – GmbH
38		Cable – guard off lamp					EUR – UK
	36334423	UK – 8020		KIV 1.25 mm ² red L=5.1 m	2		EUR – UK
	36334424	UK – 8025		KIV 1.25 mm ² red L=5.4 m	2		EUR – UK



Unit No. **36**
Electric wiring (2)

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade

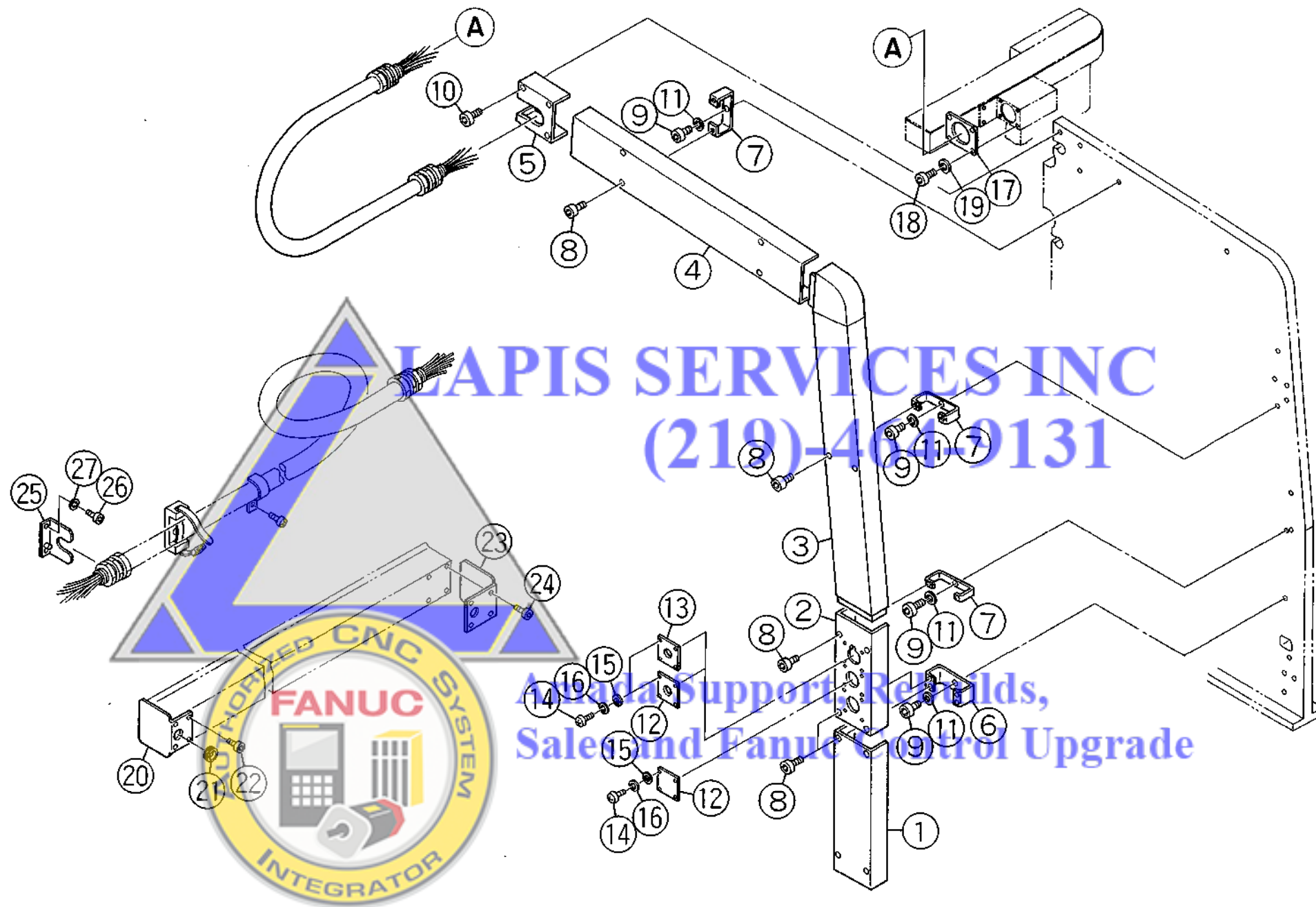


-226-



Unit No. 37
Electric wiring (3)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **37**
Electric wiring (3)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36334120	Duct (1A)	4131551		1		
2	36334123	Duct (1B)	4131554A		1		
3		Duct (2)					
	36334162	EUR	4139051		1		
	36334127	USA	4138408		1		
4		Duct (3)					
	36334238	EUR	4139053		1		
	36334203	USA	4138404		1		
5	36334209	Duct (4)	4138405		1		
6	36334254	Duct support	4132324		1		
7	36334252	Duct support	4132322		6		
8	36323416 (74302812)	Cap screw		M6 x 10	16		
9	36331119 (74314414)	Cap screw		M10 x 15	7		
10	36367644	Cap screw		M10 x 70	3		
11	36327611	Spring washer		M10 type 2	7		
12	36333846	Plate	4131556		2		
13	36333794	Plate	4171671		1		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 37
Electric wiring (3)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
14	36334229 (74305017)	Pan head machine screw		M5 x 10	12		
15	36334224	Washer		M5	8		
16	36339924	Spring washer		M5	12		
17	36365314	Plate	4138402A		1		
18	36334823 (44235241)	Cap screw		M8 x 20	4		
19	36329927	Spring washer		M8	4		
20		Cover (1)					
	36334133 (36185015)	8020	4129419		1		
	36334134 (36185016)	8025	4129421A		1		
21	36182559	Bushing		SB-109-13	1		
22		Cap screw					
	36334226 (74302811)	8020		M6 x 8	4		
	36331712 (74302813)	8025		M6 x 12	4		
23		Cover (2)					
	36333850	8020	4129077B		1		
	36333851	8025	4129072B		1		
24	36334226 (74302811)	Cap screw		M6 x 8	4		



-230-



Unit No. **37**
Electric wiring (3)

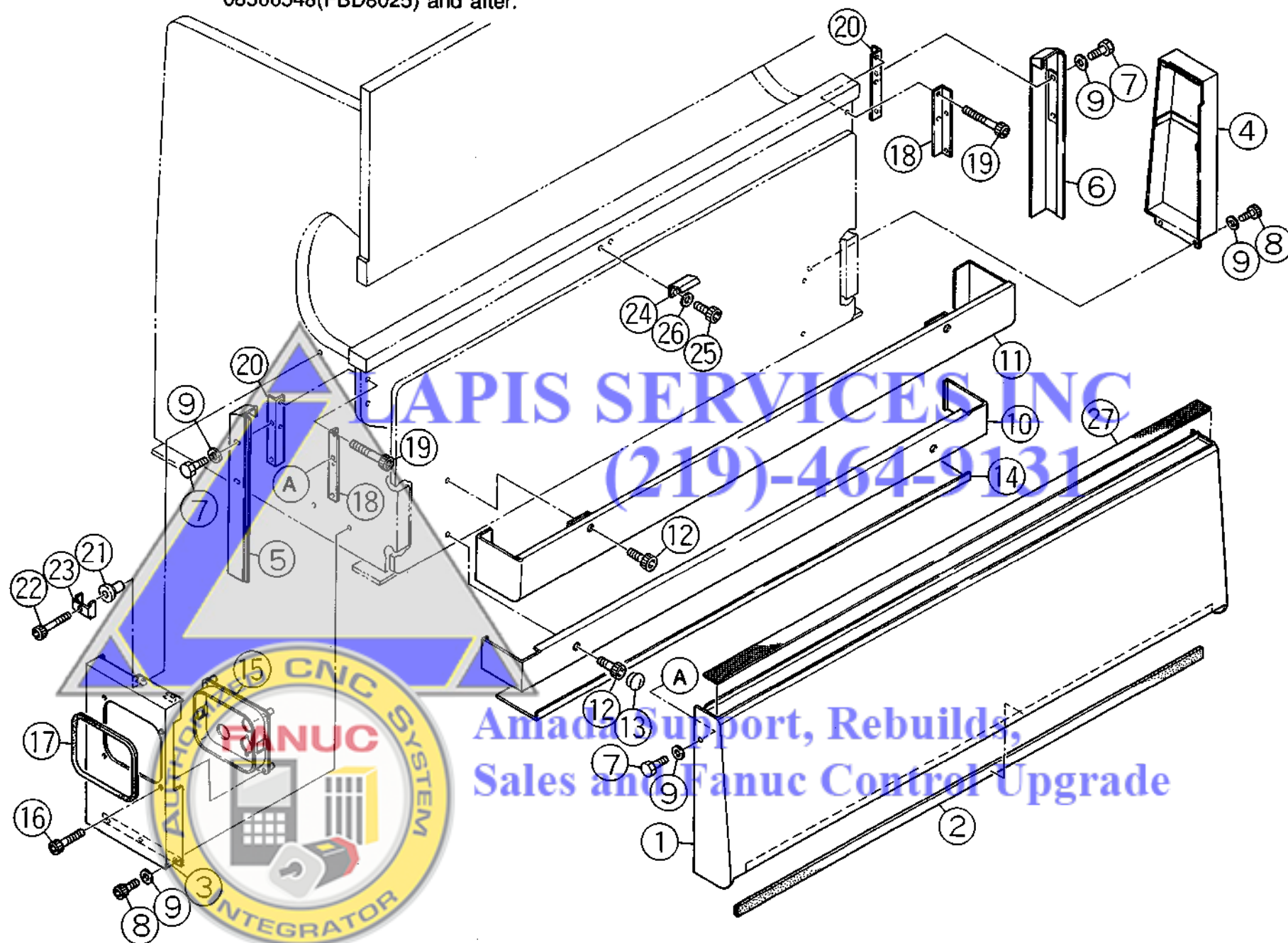
LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuilds, Sales and Fanuc Control Upgrade



Unit No. 38
Cover (1)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **38**
Cover (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Front cover					
	36332502	8020	4136359		1		
	36332503	8025	4136360		1		
2		Felt					
	36332831	8020		15 x 30 x 1880	1		
	36332832	8025		15 x 30 x 2380	1		
3	36332515	Side cover (L)	4136777		1		
4		Side cover (R)					
	36332533	EUR	4139418		1		
	36332527	USA	4136013B		1		
5	36332605	Rear cover (L)	4136775		1		
6	36332616	Rear cover (R)	4136776		1		
7	36332902 (44029703)	Bolt		M10 x 20	8		
8	36324723 (44028704)	Cap screw		M10 x 20	5		
9	36327616 (74300512)	Washer		M10	13		
10		Support plate (lower)					
	36332627	8020	4136717		1		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **38**
Cover (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36332628	8025	4136773		1		
11		Support plate (upper)					
	36332805	8020	4136716		1		
	36332806	8025	4136772		1		
12	36332909 (59157425)	Cap screw		M16 x 20	4		
13	36332917	Blind bushing		0B-31 black (Izumi)	2		
14		Bottom plate					
	36332712	8020	4136718A		1		
	36332713	8025	4136774A		1		
15	36332705	Apparatus setting plate	4136006		1		
16	36320913	Cap screw		M10 x 45	4		
17	36332722	Rubber packing	4136016		1		
18		Cover support					
	36332816	8020	4136796		2		
	36332817	8025	4136002		2		
19		Cap screw					
	36322118 (74302829)	8020		M10 x 30	4		



-236-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **38**
Cover (1)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36322514 (74304913)	8025		M10 x 40	4		
20		Cover support					
	36332819	8020	4136797		2		
	36332820	8025	4136003		2		
21	36332921	Grooved pin	4136011A		3		
22	36332905 (74314415)	Cap screw		M10 x 50	3		
23	36332929	Stopper	4136012		1		
24	36332925	Support plate	4135156		1		
25	36332907	Cap screw		M14 x 20	2		
26	36332912 (28053434)	Washer		M14	2		
27	36332829	Pyramid mat		90 x 2480 #2	1		

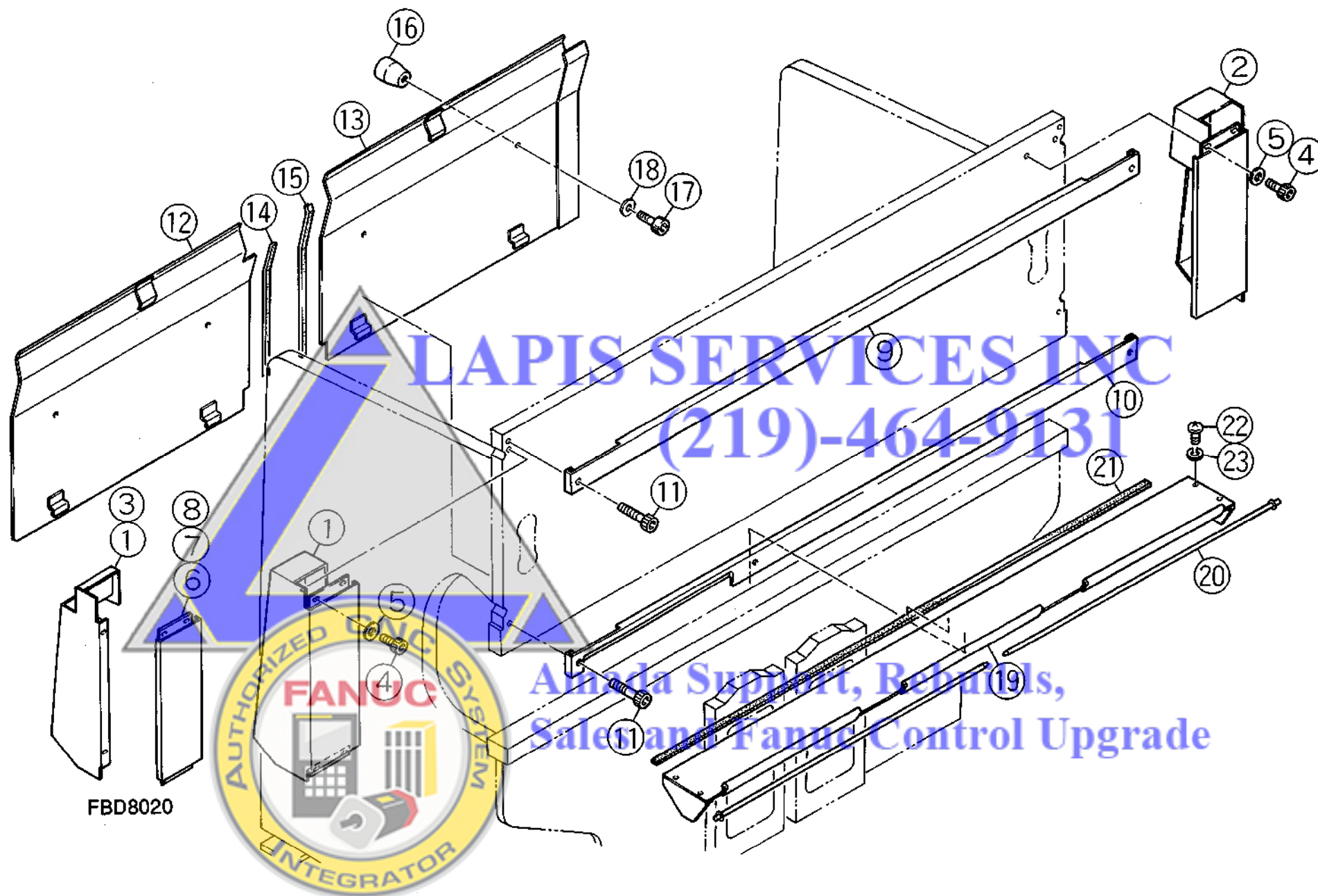


LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



Unit No. 39
Cover (2)

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 39
Cover (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Left cover					
	36332005	8020	4136714		1		
	36332011	8025	4136766A		1		
2		Right cover					
	36332105	8020	4136715A		1		
	36332106	8025	4136767A		1		
3	36332131	Button head machine screw		M6 x 10	2		8020
4	36323416 (74302812)	Cap screw		M6 x 10	4		
5	36322531 (44027930)	Washer		M6	6		
6	36332019	Front cover	4136713A		1		8020
7	36323416 (74302812)	Cap screw		M6 x 10	4		8020
8	36322531 (44027930)	Washer		M6	4		8020
9		Upper cover					
	36332030	EUR-8020	4139562		1		
	36332031	-8025	4139563		1		
	36332125	USA-8020	4136711		1		
	36332025	-8025	4136764		1		



-240-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **39**
Cover (2)

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
10		Lower cover					
	36332125	8020	4136711		1		
	36332116	8025	4136765		1		
11		Cap screw					
	36332134 (75168508)	8020		M6 x 25	6		
	36323417 (74304904)	8025		M6 x 30	6		
12		Rear cover (L)					
	36333303	8020	4136376A		1		
	36333305	8025	4136377A		1		
13		Rear cover (R)					
	36333337	8020	4137066A		1		
	36333338	8025	4137067A		1		
14	36333409	Rubber packing (L)	383322A	L=500	1		
15	36333409	Rubber packing (R)	383322A	L=570	1		
16	36333401	Knob	4040893		2		
17	36331113	Cap screw		M10 x 15	2		
18	36327616 (74300512)	Washer		M10	2		



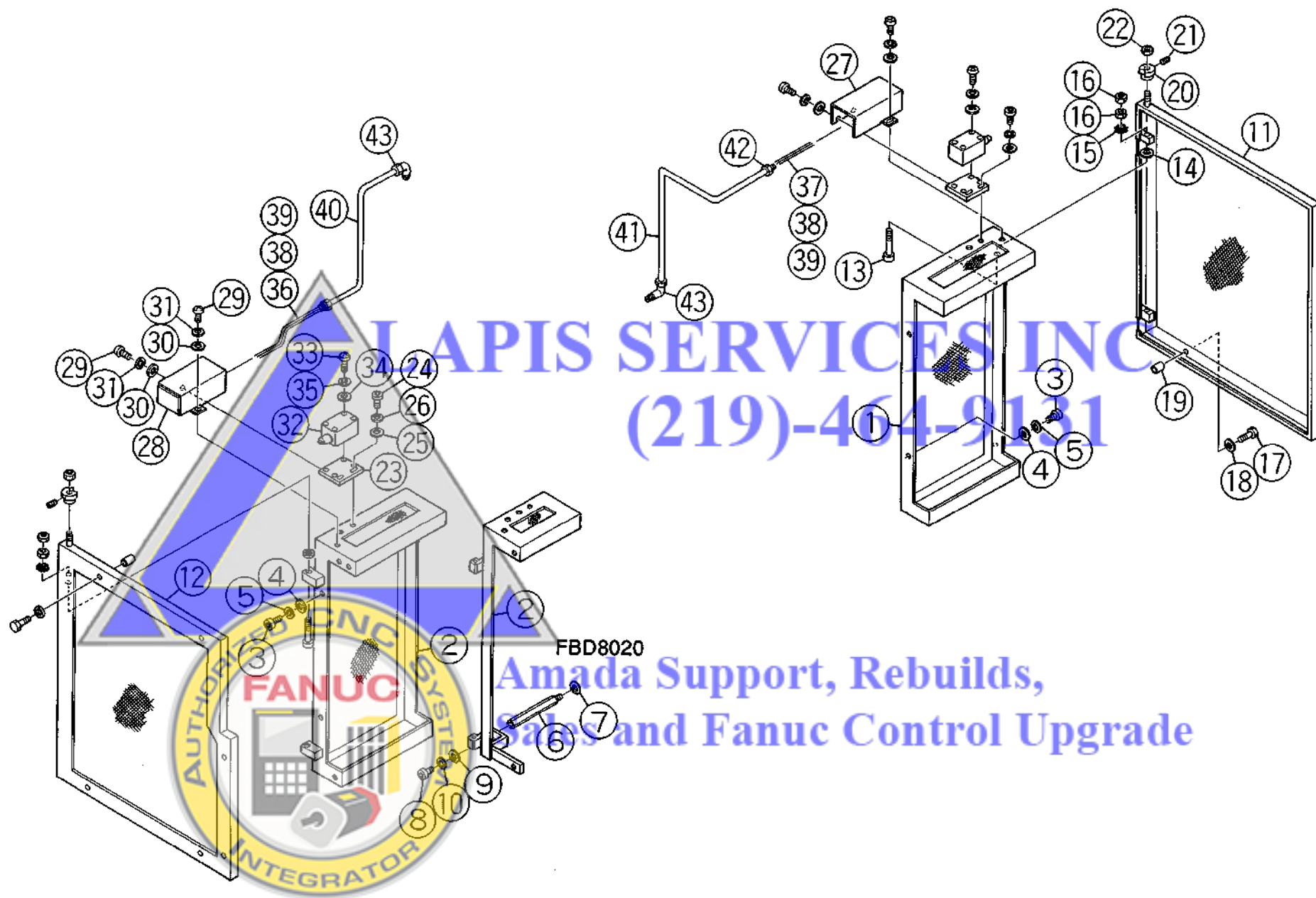
Unit No. 39
Cover (2)[illegible]

-244-



Unit No. 40
Side guard – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



FBD8020
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade

From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **40**
Side guard – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Side guard R					
	36335002	8020	4139691		1		
	36335003	8025	4139091A		1		
2		Side guard L					
	36335008	8020	4139358		1		
	36335009	8025	4139092A		1		
3	36331114 (38124012)	Cap screw		M10 x 25	8020 5 8025 6		
4	36327616 (74300512)	Washer		M10	8020 5 8025 6		
5	36327611 (10001520)	Spring washer		M10	8020 5 8025 6		
6	36335109	Stud	4139308		1		8020
7	36327616 (74300512)	Washer		M10	1		8020
8	36334823 (44235241)	Cap screw		M8 x 20	1		8020
9	36329828 (74300511)	Washer		M8	1		8020
10	36327610 (10001521)	Spring washer		M8	1		8020
11	36335014	Guard cover R	4139093A		1		
12		Guard cover L					
	36335018	8020	4139359A		1		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and FANUC Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 40
Side guard – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36335019	8025	4139094B		1		
13	36335242	Cap screw		M8 x 60	4		
14	36328928 (74300511)	Washer		M8	4		
15	36335260	Toothed lock washer		M8 external teeth	4		
16	36329932	Nut		M8 type 3	8		
17	36335023	Cover bolt	4139217A		4		
18	36328928 (74300511)	Washer		M8	4		
19	36335025	Cover spacer	4139218A		4		
20	36335028	L.S. dog	4139219A		2		
21	36323029 (10556922)	Set screw		M6 x 10 cup end	2		
22	36331123 (10001517)	Nut		M8	2		
23	36335031	L.S. bracket	4139220A		2		
24	36323931 (74307602)	Cap screw		M6 x 16	4		
25	36322531 (44027930)	Washer		M6	4		
26	36329925 (44027928)	Spring washer		M6	4		
27	36335101	L.S. switch box R	4139221A		1		
28		L.S. switch box L					



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **40**
Side guard – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36335104	8020	4139362		1		
	36335105	8025	4139222A		1		
29	36335248 (74305017)	Pan head machine screw		M5 x 10	8020 5 8025 6		
30	36329918 (44552819)	Washer		M5	8020 5 8025 6		
31	36335627	Toothed lock washer		M5 external teeth	8020 5 8025 6		
32	36335122	Limit switch		5LS1-J seal conn. 2PA-J1 (Yamatake-Haneywell)	2		
33	36335249 (10556928)	Pan head machine screw		M5 x 35	8		
34	36329918 (44552819)	Washer		M5	8		
35	36335627	Toothed lock washer		M5 external teeth	8		
36		Cable L – LS					
	36335203	8020		VCT 1.25 mm ² x 3c 4.0 m	1		
	36335204	8025		VCT 1.25 mm ² x 3c 3.0 m	1		
37		Cable R – LS					
	36335207	8020		VCT 1.25 mm ² x 3c 5.5 m	1		
	36335208	8025		VCT 1.25 mm ² x 3c 7.5 m	1		
38	36335225	Lug terminal		1.25-3.5	12		
39	36335227	Marker tube		1.25 mm ²	12		



-250-



Unit No. **40**
Side guard – EUR

[illegible]

-252-





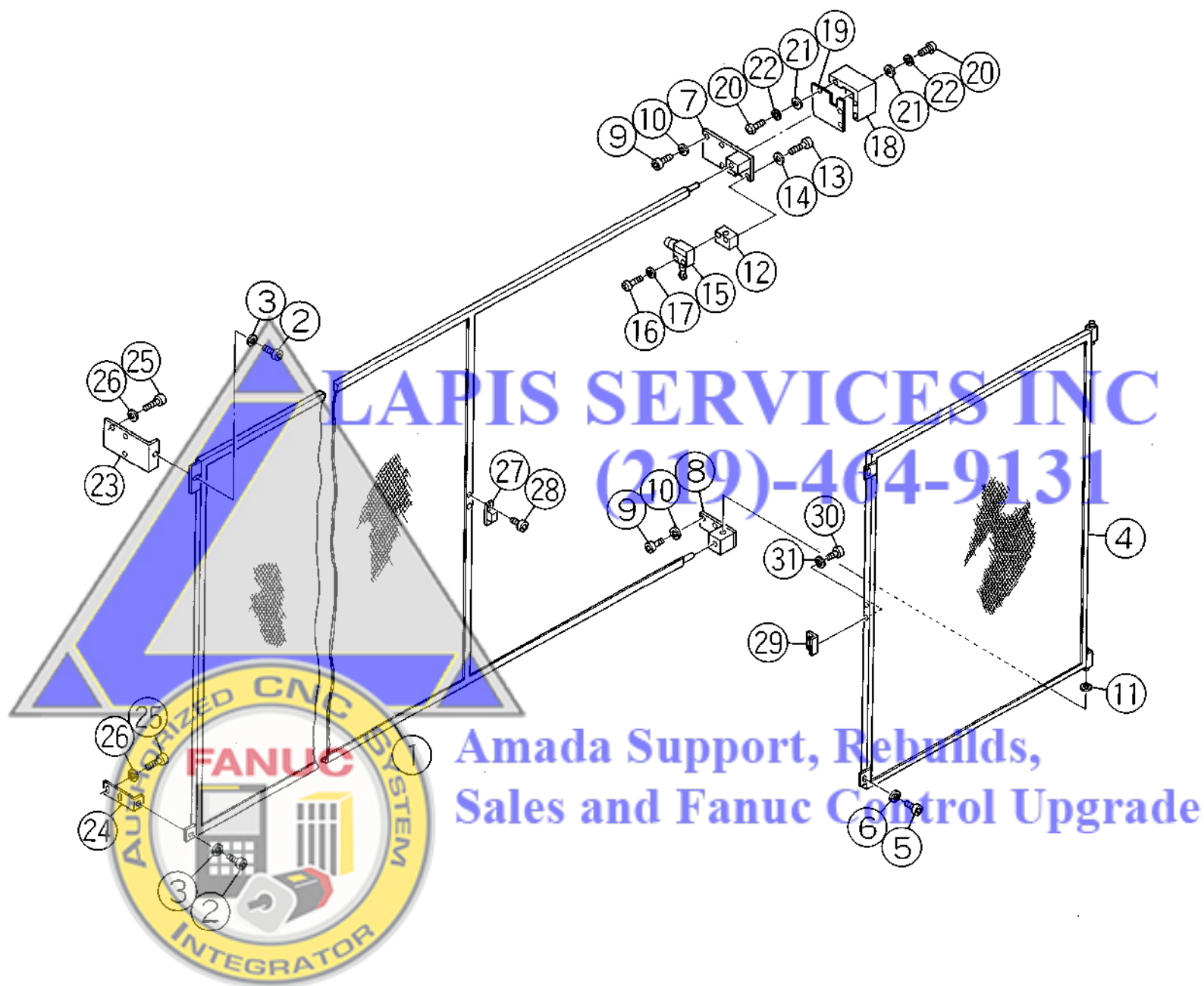
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 41
Rear guard – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 41
Rear guard – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Fixed guard					
	36335535	8020	4170823		1		
	36335537	8025	4170822		1		
2	36335243	Cap screw		M8 x 14	2		
3	36328928 (74300511)	Washer		M8	2		
4	36335538	Door	4170824		1		
5	36323416 (74302812)	Cap screw		M6 x 10	2		
6	36322531 (44027930)	Washer		M6	2		
7	36335541	Hinge bracket (upper)	4170825		1		
8	36335542	Hinge bracket (lower)	4170826		1		
9	36331713 (21415514)	Cap screw		M8 x 25	5		
10	36328928 (74300511)	Washer		M8	5		
11	36323928	Washer		M16 polish	1		
12	36335546	LS block	4170827		1		
13	36331717 (74302815)	Cap screw		M6 x 20	2		
14	36322531 (44027930)	Washer		M6	2		
15	36335608	Limit switch		SL1-A (Yamatake Haneywell)	1		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 41
Rear guard – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
16	36322510	Cap screw		M4 x 25	2		
17	36335625	Toothed lock washer		M4 external teeth	2		
18	36335547	L.S. cover (A)	4170828		1		
19	36335548	L.S. cover (B)	4170829		1		
20	36331709 (74306414)	Pan head machine screw		M4 x 8	4		
21	36329917 (74300510)	Washer		M4	4		
22	36322528 (44027327)	Spring washer		M4	4		
23	36335553	Guard bracket (upper)	4170830		1		
24	36335554	Guard bracket (lower)	4170831		1		
25	36331713 (21415514)	Cap screw		M8 x 25	5		
26	36328928 (74300511)	Washer		M8	5		
27	36335631	Magnet catch		C-100-A-2 (Takigen)	1		
28	36379002	Cap screw		M3 x 10	2		
29	36335558	Magnet angle	4170832		1		
30	36322415	Cap screw		M4 x 8	2		
31	36329917 (74300510)	Washer		M4	2		
32	36353616	Cable		VCT 1.25 mm ² blue	2		



-256-



Unit No. **41**
Rear guard – EUR

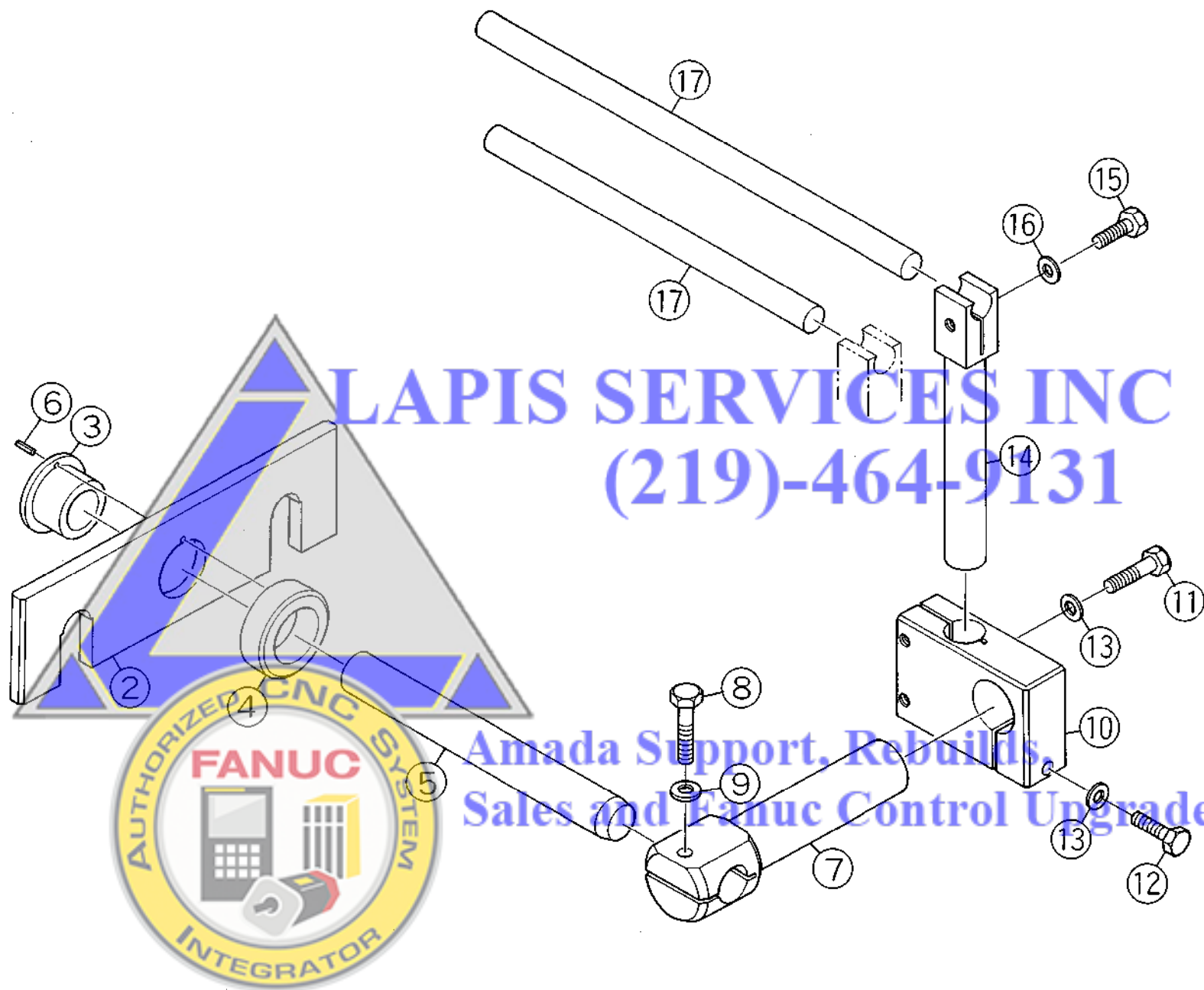
[illegible]

-258-



Unit No. 42
Front support – EUR

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **42**
Front support – EUR

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36335923	Fixed bracket ass'y	4139543		2 set		
2	36335903	Lock plate	57.14000.0A		2		
3	36335905	Socket	57.11500.0A		2		
4	36335907	Ring	57.11501.0		2		
5	36335909	Guide bar	4139544		2		
6	36335925	Spring pin		Φ4 x 15	2		
7	36335913	Adjusting block	4139026		2		
8	36335927	Bolt		M10 x 50 strength 12.9	2		
9	36327616 (74300512)	Washer		M10	2		
10	36335915	Block	4139021		2		
11	36335928	Bolt		M10 x 40 strength 12.9	4		
12	36335929	Bolt		M10 x 35 strength 12.9	2		
13	36327616 (74300512)	Washer		M10	6		
14	36335917	Support bar	4139024		2		
15	36335930	Bolt		M10 x 30 strength 12.9	2		
16	36327616 (74300512)	Washer		M10	2		
17		Work stopper					



-260-



Unit No. 42
Front support – EUR[illegible]



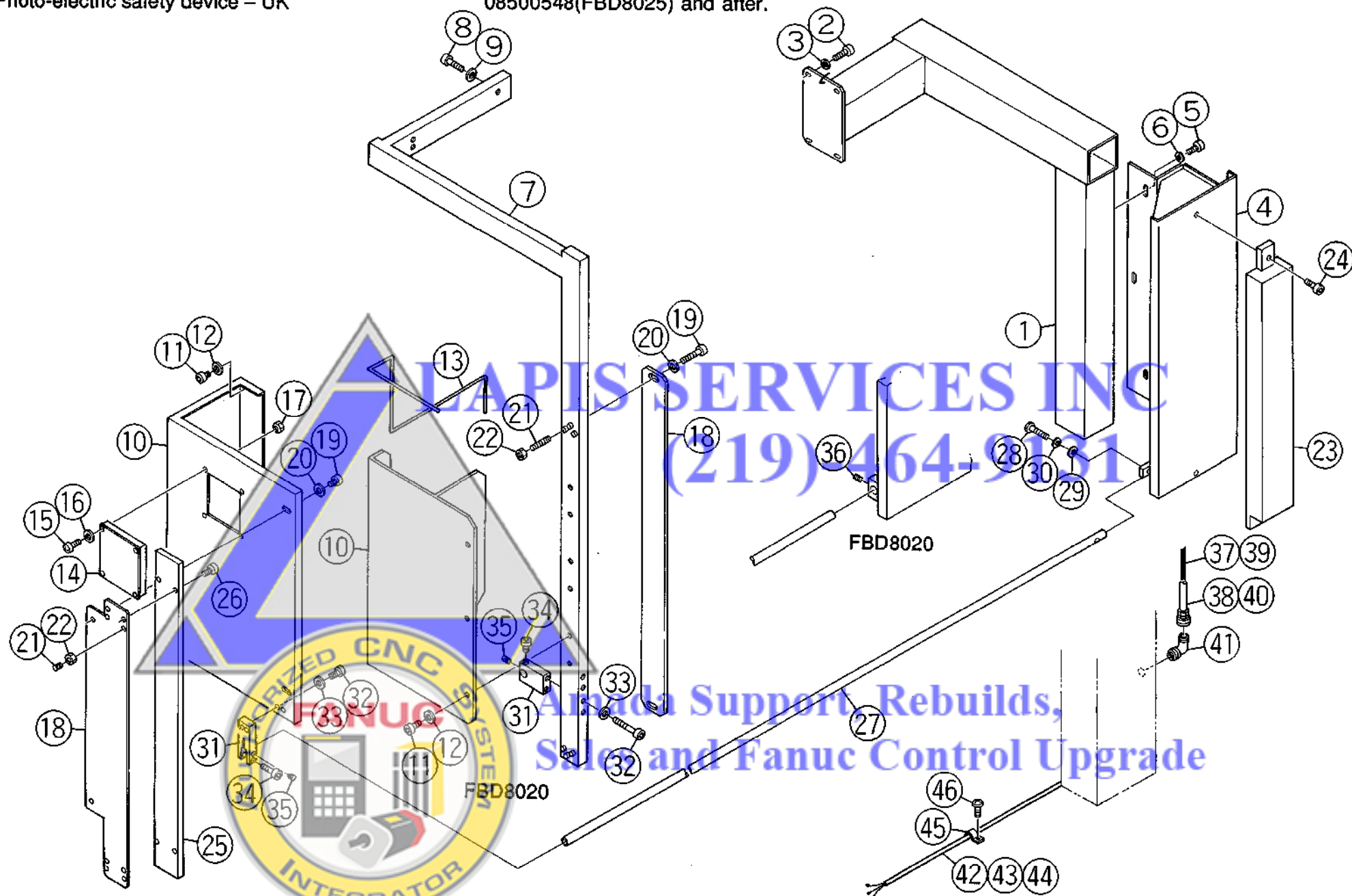
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 43
Photo-electric safety device – UK

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **43**
Photo-electric safety device – UK

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1		Pipe (R)					
	36336209	8020	4139346		1		
	36336211	8025	4139139A		1		
2	36331114 (38124012)	Cap screw		M10 x 25	4		
3	36327616 (74300512)	Washer		M10	4		
4		Setting plate					
	36336221	8020	4139345B		1		
	36336222	8025	4139424A		1		
5	36335244	Cap screw		M8 x 16	3		
6	36328928 (74300511)	Washer		M8	3		
7	36336210	Pipe (L)	4170394		1		8020
8	36332905 (74314415)	Cap screw		M10 x 50	3		8020
9	36327616 (74300512)	Washer		M10	3		8020
10		Safety cover					
	36336219	8020	4170906		1		
	36336218	8025	4170388B		1		
11		Cap screw					



-264-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 43

Photo-electric safety device – UK

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36323416 (74302812)	8020		M6 x 10	3		
	36335243	8025		M8 x 14	2		
12		Washer					
	36322531 (44027930)	8020		M6	3		
	36328928 (74300511)	8025		M8	2		
13	36336321	Edge rubber		EN-016 L=2230	1		8020
14	36336234	Acrylic plate	4171036		1		8025
15	36368511	Pan head machine screw		M4 x 30	4		8025
16	36329917	Washer		M4	4		8025
17	36329929	Nut		M4 type 1	4		8025
18		Mirror setting plate					
	36336225	8020	4139348A		1		
	36336226	8025	4170389		1		
19		Cap screw					
	36335242	8020		M8 x 60	2		
	36329937	8025		M8 x 10	2		
20	36328928 (74300511)	Washer		M8	2		

LAPIS SERVICES INC
(219)-464-9151
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **43**
Photo-electric safety device – UK

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
21		Set screw					
	36336429	8020		M6 x 55 dog end	4		
	36336430	8025		M6 x 20 flat end	4		
22	36323024 (74309931)	Nut		M6 type 1	4		
23	36336403	LVU		LVU-706 (SICK)	1		
24	36322118 (74302829)	Cap screw		M10 x 30	2		
25	36336406	Mirror		PN30-8 (SICK)	1		
26	36323417	Cap screw		M6 x 30	4		
27		Bar					
	36336202	8020	4139428		1		
	36336203	8025	4170538		1		
28	36336433	Bolt		M8 x 60	1		8025
29	36328928 (74300511)	Washer		M8	1		8025
30	36327610 (10001521)	Spring washer		M8	1		8025
31		Bar clamp					
	36336229	8020	4139426A		1		
	36336230	8025	4170390		1		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuilds,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 43

Photo-electric safety device – UK

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
32		Cap screw					
	36336423	8020		M6 x 75	2		
	36334823 (44235241)	8025		M8 x 20	2		
33		Washer					
	36322531 (44027930)	8020		M6	2		
	36328928 (74300511)	8025		M8	2		
34		Cap screw					
	36323416 (74302812)	8020		M6 x 10	1		
	36336424	8025		M6 x 35	1		
35		Set screw					
	36334829 (74314807)	8020		M6 x 10 flat end	1		
	36336431	8025		M6 x 8 flat end	1		
36	36336428	Set screw		M6 x 16 flat end	1		8020
37		Cable					
	36336310	8020		VCTF 0.75 mm ² x 10c 600V L=2.8 m	1		
	36336311	8025		VCTF 0.75 mm ² x 10c 600V L=3.3 m	1		
38		Flexible tube					



-270-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **43**

Photo-electric safety device – UK

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
	36336326	8020		VF-04 L=2.5 m (Japan flex)	1		
	36336327	8025		VF-04 L=3.0 m (Japan flex)	1		
39	36336414	Terminal cap		TC-04 (Japan flex)	1		
40	36336331	Connector		PSF-104-CA2020 (Japan flex)	1		
41	36336411	Angle plug		MS3108B-20-16P (JAE)	1		
42		Cable					
	36336302	8020		VCTF 1.25 mm ² x 10c 600V L=3.1 m	1		
	36336303	8025		VCTF 1.25 mm ² x 10c 600V L=3.7 m	1		
43		Lug terminal					
	36336317	8020		Y2-4	18		
	36336318	8025		Y1.25-	18		
44	36335227	Marker tube		1.25 mm ²	36		
45	36336417	Saddle		CH-15	5		
46	36329912	Pan head machine screw		M6 x 10	5		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuild,
Sales and Fanuc Control Upgrade

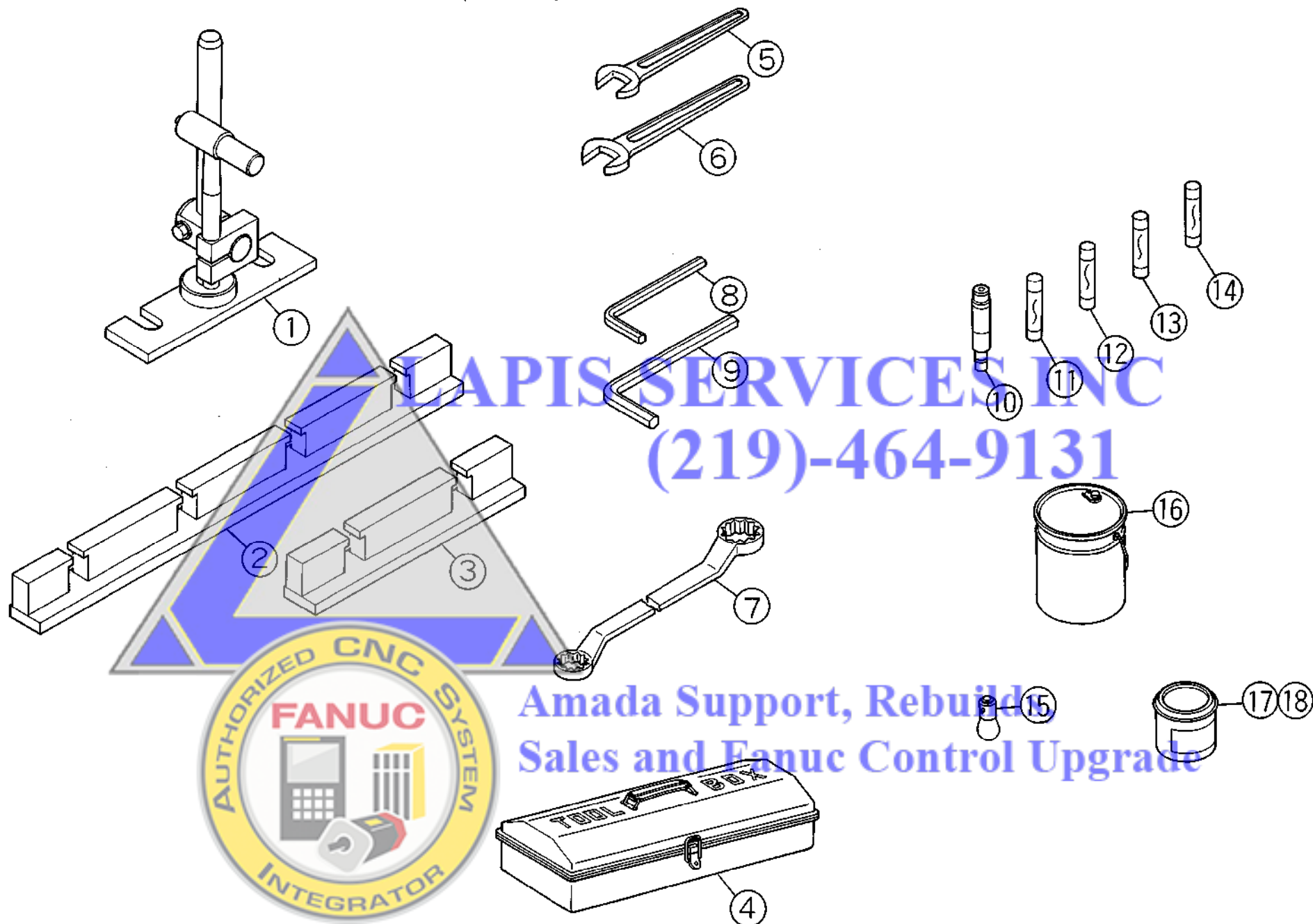


-272-



Unit No. 44
Standard accessories

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **44**
Standard accessories

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36120201	Stopper setting plate	57.80000.0		2 set		USA
2	36120215	Die holder	380860D	H=75 L=830 8020 8025	2 3		
3	36120216	Die holder	380865C	H=75 L=415 8020	1		8020
4	36143629	Tool box		330 x 150 x 100	1		
5	36143601	Single-end wrench		30	1		
6	36143605	Single-end wrench		13	1		
7	36143609	45° double effect box wrench		14 x 17	1		
8	36143613	Allen wrench		8	1		
9	36143614	Allen wrench		5	1		
10	36329158	Fuse link		BLA-007D-7A (Fuji)	1		EUR
11	36329151	Fuse		F7161-8A (Sato)	2		EUR
12	36329150	Fuse		F7161-3A (Sato)	1		EUR
13	36329152	Fuse		ATM8-8A (Gould)	2		USA
14	36329153	Fuse		ATM6-6A (Gould)	2		USA
15	36143621	Bulb for pilot lamp		AHX135 6.3V 1.0W (Fuji)	2		
16		Hydraulic oil					
		8020		50 liters	1		



Unit No. **44**
Standard accessories[illegible]

-276-





LAPIS SERVICES INC
(219)-464-9131



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

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **45**
Flip-up work stopper – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36181503	Flip-up stopper ass'y	4128816G		2 set		
2	36181803	Body	4128797E		2		
3	36176908 (36323029)	Set screw		M4 x 10 cone end	4		
4	36181532	Bearing retainer	4128798A		2		
5	36181533	Bearing case	4128799		2		
6	36176717 (75168508)	Cap screw		M6 x 25	4		
7	36181536	Clamp lever		KR6 x 20	2		
8	36181524	Feed screw	4128800A		2		
9	36181834	Spherical shaft support		NB6 (THK)	2		
10	36181527	Collar	4128727		2		
11	36181528	Collar	4128801A		2		
12	36181856 (37117102)	Spring pin		Φ3 x 10	2		
13	36181819	Snap ring		STW-6	2		
14	36181534	Handwheel	4128802		2		
15	36181857 (54117205)	Spring pin		Φ3 x 20	2		
16	36181539	Lock nut	4128803		2		
17	36181540	Lock bar	4128804A		2		

LAPIS SERVICES INC
(219)-464-9131

Amada Support, Rebuild,
Sales and Fanuc Control Upgrade



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 45

Flip-up work stopper – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18	36181541	Collar	4128805		2		
19	36181542	Clamp lever		KR8 x 40	2		
20	36181549	Guide rod	7950004	(THK)	4		
21	36181551	Cylinder	4128806B		2		
22	36181562	O-ring		1BP 10	2		
23	36181560	Linear ball bearing		LM13UU (THK)	4		
24	36181626	Set screw		M4 x 6 cone end	4		
25	36181859	Plug		1/8"	4		
26	36181553	Piston	4128807D		2		
27	36181563 (38121648)	O-ring		1BP 14	2		
28	36177004 (44027930)	Washer		M6	2		
29	36368330	Spring washer		M6 1L	4		
30	36181855 (74304422)	Nut		M6 type 3	2		
31	36176806 (10310352)	Nut		M6 type 1	2		
32	36181554	Piston	4128808A		2		
33	36181564 (36005710)	O-ring		1BP 21	2		
34	36181556	Cap	4128809		2		



-280-



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. **45**
Flip-up work stopper – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
35	36181565	O-ring		S-28 (NOK)	2		
36	36181559	Holder	4128820D		2		
37	36181560	Linear ball bearing		LM13UU (THK)	4		
38	36181521	Linear ball bearing		LM6UU (THK)	2		
39	36181626	Set screw		M4 x 6 cone end	10		
40	36176908 (36323029)	Set screw		M6 x 10 cone end	2		
41	36181627	Set screw		M6 x 15 dog end	2		
42	36181855	Nut		M6 type 3	2		
43	36181514 (10357006)	Spring pin		Φ3.5 x 36	2		
44	36181806	Work stopper	4128811B		2		
45	36181514	Spring pin		Φ6 x 36	2		
46	36181810	Pad	4128812B		2		
47	36176711 (74302812)	Cap screw		M6 x 10	4		
48	36181515	Pin	4129243		2		
49	36181601	Pointer	4128814A		2		
50	36176834 (74303113)	Pan head machine screw		M6 x 8	2		
51	36181520	Flip-up rod	4128818		2		

LAPIS SERVICES INC
(219)-464-9131
Amada Support, Rebuild,
Sales and Fanuc Control Upgrade



-282-



Unit No. 45

Flip-up work stopper – USA

[illegible]

* 1 *



* 2 *



* 3 *



* 4 *



* b7 *



* 6 *

-284-



11000 10000 10000





9



美 日 主



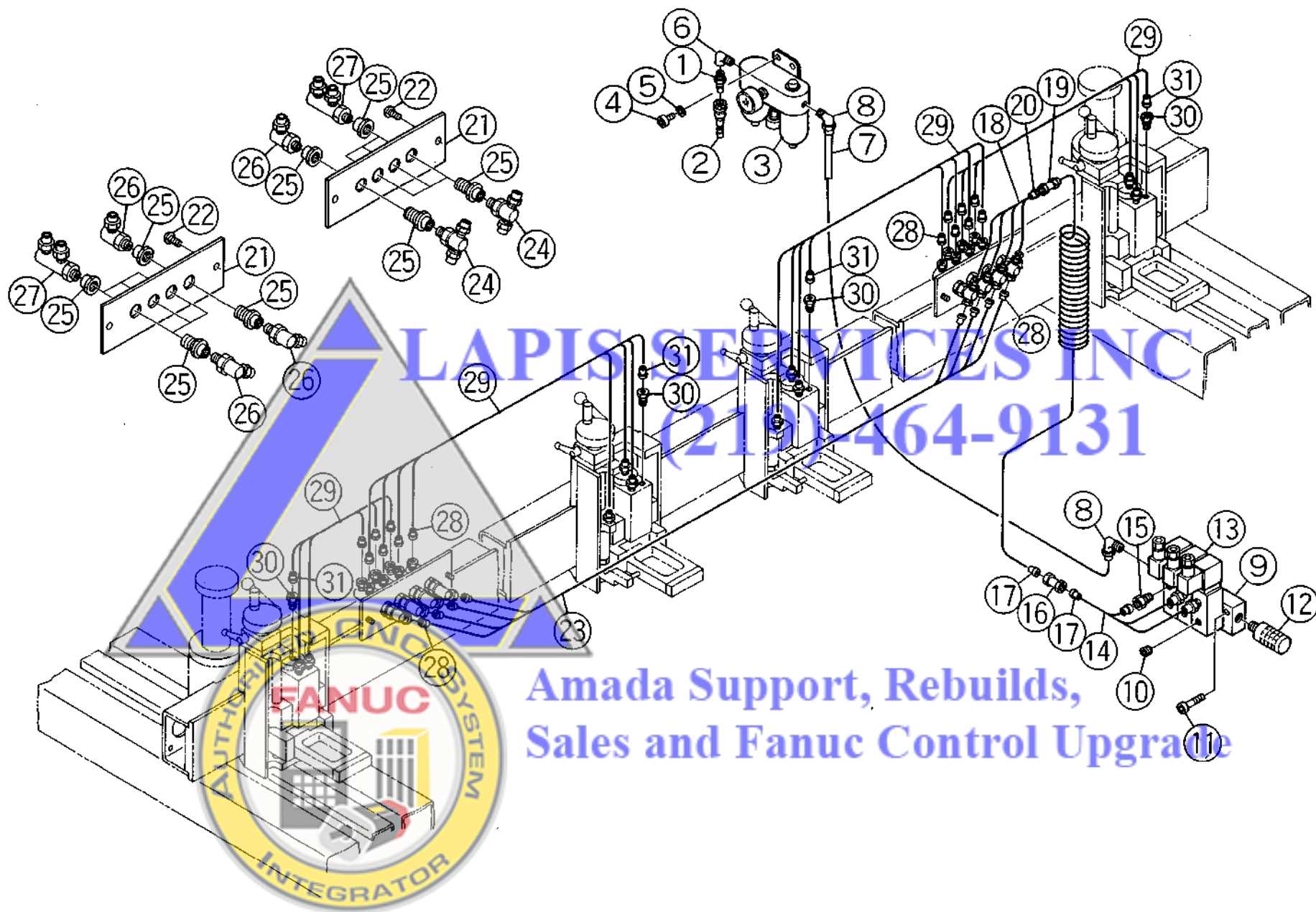
LAPIS SERVICES INC
(219)-464-9131



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

Unit No. 46
Pneumatic piping (3) – USA

From serial No. 08200589(FBD8020),
08500548(FBD8025) and after.



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 46
Pneumatic piping (3) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
1	36182564 (74162522)	Coupler plug		20PM PT 1/4"	1		
2	36182562	Coupler socket		20SH PT 1/4"	1		
3	36182518	Air supply unit		AU200-02BG (SMC)	1		
4	36367619 (36329937)	Cap screw		M8 x 10	2		
5	36176924 (10001521)	Spring washer		M8	2		
6	36182552	Elbow		PT 1/4"	1		
7	36182636	Tube		AS70-08 L=2000 (Junron)	1		
8	36182549	Elbow		PL-8x6-PT 1/4"-BS (Junron)	2		
9	36182506	Manifold		VV3000-03-B3 (SMC)	1		
10	36182566	Blind plug		PT 1/4"	5		
11	36176710 (74304902)	Cap screw		M5 x 35	2		
12	36182514	Silencer		AN200-02 (SMC)	2		
13	36182501	Solenoid valve		V31030-021D (SMC)	3		
14	36182605	Tube		UH30-06 L=1000 (Junron)	4		
15	36182547	Nipple		BN-6x4-PT1/4"-BSN (Junron)	4		
16	36182553	Union		BU-6x4-BSN (Junron)	4		
17	36182560	Sleeve		BS-06	8		



From serial No. 08200589 (FBD8020),
08500548 (FBD8025) and after.

Unit No. 46
Pneumatic piping (3) – USA

Index No.	Parts No.	Parts Name	Drawing No.	Type (Maker)	Q'ty	Parts No.	Note
18		Tube					
	36182641	8020		UH-30-06 L=200 (Junron)	4		
	36182602	8025		UH-30-06 L=350 (Junron)	4		
19	36182553	Union		BU-6x4-BSN (Junron)	4		
20	36182560	Sleeve		BS-06 (Junron)	8		
21	36182629	Panel	4129070		2		
22	36180554	Button head machine screw		M6 x 10	4		
23		Tube					
	36182604	8020		UH30-06 L=800 (Junron)	4		
	36182639	8025		UH30-06 L=1100 (Junron)	4		
24	36182556	Tee		BTA-6x4-PT 1/8"-BSN (Junron)	4		
25	36182554	Panel union		PF-1/8"x1/8" (Junron)	8		
26	36182548	Elbow		BL-6x4-PT1/8"-BSN (Junron)	6		
27	36181618	Elbow	7951006A	(Junron)	6		
28	36182560	Sleeve		BS-06 (Junron)	26		
29		Tube					
	36182608	8020		UH-30-06 L=600 (Junron)	14		



-288-



Unit No. **46**
Pneumatic piping (3) – USA[illegible]

-290-





LAPIS SERVICES INC
(219)-464-9131



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