

Spare Parts List for **Bishamon Skid Lifter**

Battery Powered Lift & Drive Model - 1,000 kg. Capacity

Model ALV98•ALV98W

(For the units produced after July 1999)

(No Pricing Shown)



ALV98

Contents

Skid Lifter - Model No. and Type	Page
Battery Powered Lift & Drive Model	
• 980 kg (ALV98)	Fork Size - 520 x 1,080mm
• 980 kg (ALV98W)	Fork Size - 685 x 1,080mm
1) Frame	2 ~ 3
2) Cylinder	4 ~ 5
3) Drive Unit	6 ~ 7
4) Hyd. Unit	8 ~ 9
5) Drive Wheel Assy	10 ~ 11
6) Motor for Drive Wheel	12 ~ 13
7) Wiring Info.	14 ~ 15
Option	16 ~ 17

Frame

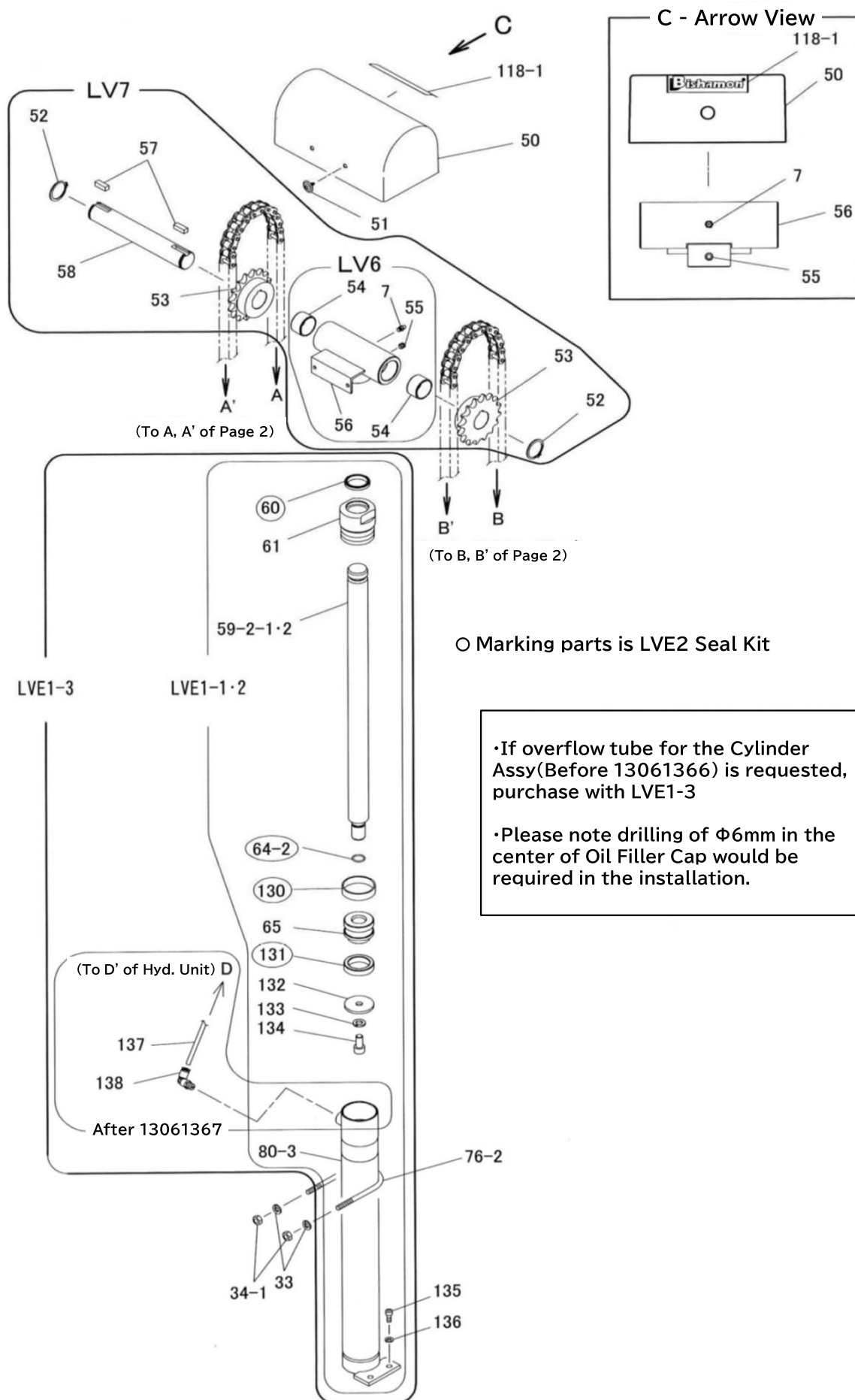


Frame

ALV98 (After July 1999)

Ill. No.	Parts No.	Parts Name	Standard	Note & Change Date Info.	Qty/Unit		Price/ea.
					ALV98	ALV98W	
AS1	02609700	Caster Assy	4 · 33 · 200~212 · 217~219		1	1	
LV1	02631460	Guide Roller B Assy	6 · 38		2	2	
LV2	02585080	Front Wheel Assy	15X2 · 16X2 · 17		2	2	
LV3	02585250	Guide Roller A Assy	5 · 13		2	2	
ALV3	02589240	Steering Wheel Assy	(202~205)		1	1	
1	N/A	Fork (Not available because Fork is structural parts)			1	1	N/A
2	70833037	Roller Chain	RS60-37L + Joint Link (2L)		2	2	
3	80839321	Joint Link	RS60		4	4	
4	80845011	Snap Ring	RR020		5	5	
5	N/A	Metal Bushing A		Replace with LV3	4	4	N/A
6	N/A	Guide Roller B		Replace with LV1	2	2	N/A
7	80827006	Grease Fitting	GNAM6X0.75		7	7	
8	N/A	I & O Link (Not available because Link is structural parts)			1	1	N/A
9	90980540	Roll Pin	SRP0540		4	4	
10	12585470	Link Metal Bushing A			4	4	
11	12585210	Link Support Pin			4	4	
12	80826996	Grease Fitting	GNASM6X0.75		2	2	
13	N/A	Guide Roller A		Replace with LV3	2	2	N/A
14	80827016	Grease Fitting	GNBM6X0.75		2	2	
15	12604680	Pulley Shaft Collar			4	4	
16	81046004	Bearing	6004ZZ		4	4	
17	N/A	Front Wheel	V70X73	Replace with LV2	2	2	N/A
18	12590280	Front Wheel Shaft	L=107mm		2	2	
19	90980530	Roll Pin	SRP0530		2	2	
20-5	N/A	Frame (Not available because Frame is structural parts)			1		N/A
20-6	N/A	Frame (Not available because Frame is structural parts)				1	N/A
33	90930508	Spring Washer	SW08SE		8	8	
34-1	90930108	Hex Nut	HN08SE		8	8	
37	80821858	Rectangular Cap	108-21452 (Black)	After 05101434 ALV98 After 05110964 ALV98W	2	2	
38	81772020	Dry LF Bearing	LFB-2020		2	2	
39-4	Ask	Charger (for Export Model)		Ask Bishamon	1	1	Ask
40	90761025	Hex Socket Head Cap Bolt	HSBS1025		8	8	
41-3	N/A	Guide Rail (Not available because Guide Rail is structural parts)			1		N/A
41-4	N/A	Guide Rail (Not available because Guide Rail is structural parts)				1	N/A
143	90890820	Hex Bolt with Washer	HBS0820SE		3	3	
164	52600571	Terminal Cover Large R			1	1	
165-2	80819909	Battery Terminal	NX120 +		1	1	
166-2	80819929	Battery Terminal	NX120 -		1	1	
167-2	80819812	Battery	SG-130E41R		1	1	
170	11951200	Battery Plate			1	1	
200	90920850	Hex Socket Head Cap Bolt	HSB0850		2	2	
201	10630580	Shaft End Holder			2	2	
202	11951020	Spring Hold Collar			2	2	
203	80783030	Spring	TB30X30	Old and New Compatible	2	2	
204	85001180	Steering Wheel	UR180X50 ST98A	Old and New Compatible	1	1	
205	12589370	Rear Wheel			2	2	
206	02609540	Caster Fork Support			1	1	
207	02609560	Caster Fork			1	1	
208-2	12589390	Caster Collar		After Nov. 2010	1	1	
209	81230205	Taper Roller Bearing	30205		1	1	
210	12603340	Bearing Spacer			1	1	
211	81036005	Bearing	6005Z		1	1	
212	80845015	Snap Ring	RR025		1	1	
213-1	02610040	Unit Fixing Pipe			1		
213-2	02583100	Unit Fixing Pipe				1	
214	90845006	Butterfly Nut	CHN06		2	2	
215	12594470	Battery Clamp			1	1	
216	12594480	Battery Fixing Bolt			2	2	
217	12589380	Front Wheel Collar			3	3	
218	80846031	Snap Ring	RR152		2	2	
219	81046304	Bearing	6304ZZ-PS2SE		2	2	

Cylinder

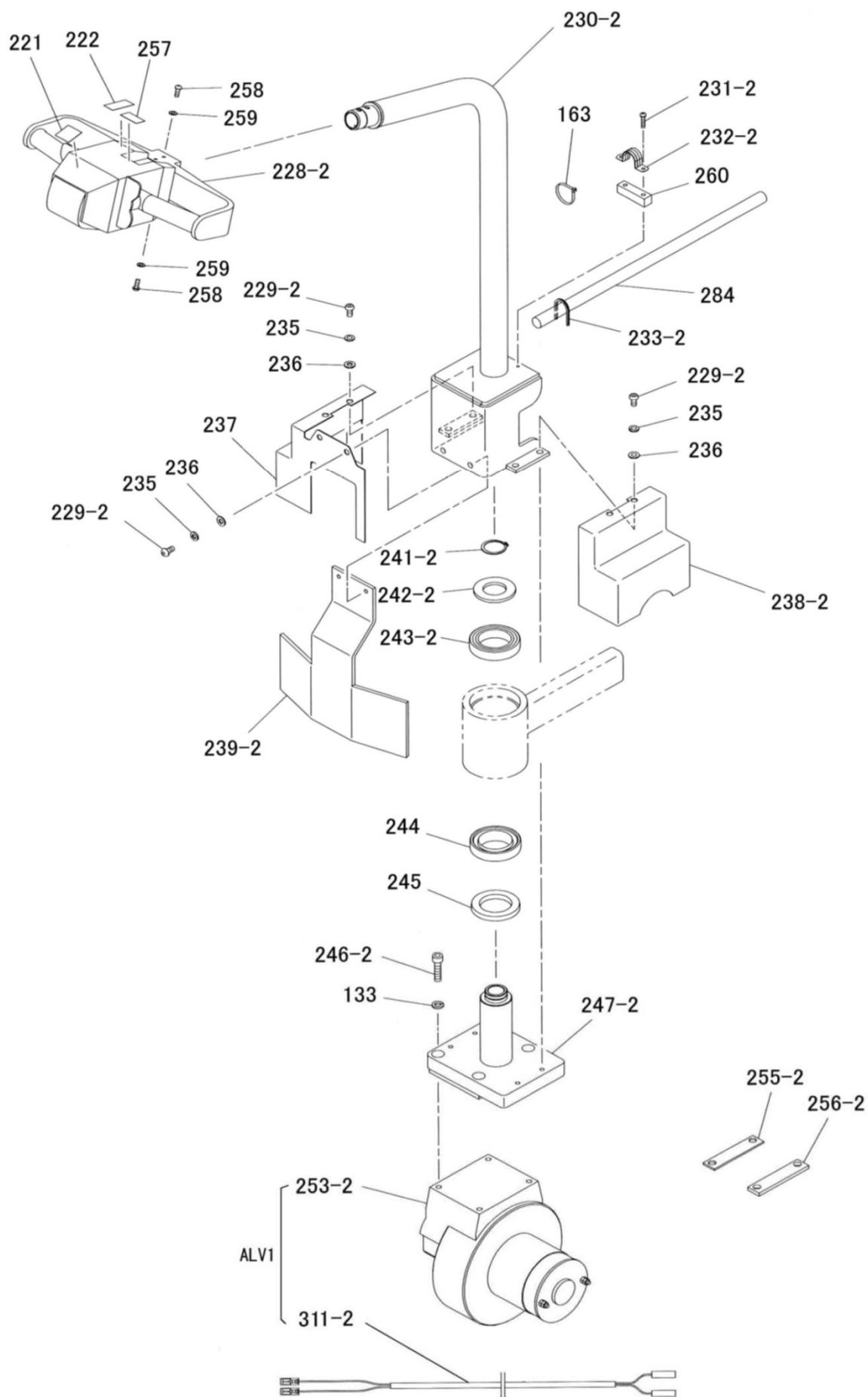


Cylinder

ALV98 (After July 1999)

Ill. No.	Parts No.	Parts Name	Standard	Note & Change Date Info.	Qty/Unit		Price/ea.
					ALV98	ALV98W	
LVE1-1	76005460	Cylinder Assy	59-2-1・60・61・64-2・65・80-3-1・130~134	Before 07022214	1	1	
LVE1-2	76005461	Cylinder Assy	59-2-2・60・61・64-2・65・80-3-2・130~134	07022215~13061366	1	1	
LVE1-3	76005462	Cylinder Assy	59-2-2・60・61・64-2・65・80-3-3・130~134・137・138	With Overflow Tube After 13061367	1	1	
LVE2	52594500	Seal Kit	60・64-2・130・131		1	1	
7	80827006	Grease Fitting	GNAM6X0.75		1	1	
33	90930508	Spring Washer	SW08SE		2	2	
34-1	90930108	Hex Nut	HN08SE		2	2	
50	52585811	Sprocket Cover	Color-Black		1	1	
51	80821833	Scrivet	2658		2	2	
52	80845019	Snap Ring	RR030		2	2	
53	12589760	Chain Wheel			2	2	
54	81703020	Dry Bushing	70B-3020		2	2	
55	90960808	Hex Socket Head Cap Screw	HSS0808		1	1	
56	02589470	Chain Bracket			1	1	
57	12589780	Parallel Key			1	1	
58	12589770	Chain Wheel Shaft			1	1	
59-2-1	N/A	Piston Rod	Before 07022214	Replace with LVE1-2	1	1	N/A
59-2-2	12594341	Piston Rod	Φ35-517mm	After 07022215	1	1	
60	80803035	Dust Seal	SDR-35		1	1	
61	12594370	Cylinder Cover			1	1	
64-2	80800030	O Ring	P30		1	1	
65	12594350	Piston			1	1	
76-2	12594390	Cylinder Holder			1	1	
80-3-1	N/A	Cylinder	Replace with LVE1-1	Before 07021876	1	1	N/A
80-3-2	N/A	Cylinder	Replace with LVE1-2	07021877~13061366	1	1	N/A
80-3-3	N/A	Cylinder	Replace with LVE1-3	After 13061367	1	1	N/A
118-1	52606403	Bishamon Label			1	1	
130	80804061	Wearing	SW-60		1	1	
131	80801541	U Packing	KY604012		1	1	
132	12594360	Packing Holder			1	1	
133	90930510	Spring Washer	SW10SE		1	1	
134	90921020	Hex Socket Head Cap Bolt	HSB1020		1	1	
135	90920615	Hex Socket Head Cap Bolt	HSB0615		2	2	
136	90930506	Spring Washer	SW06SE		2	2	
137	11139440	Overflow Tube	F1506-760(Black)	After 13061367	1	1	
138	80817225	Elbow Union	ZL-061	After 13061367	1	1	

ALV98 (After 02050427) Drive Unit Assy



ALV98 (After 02050427)

- 7 -

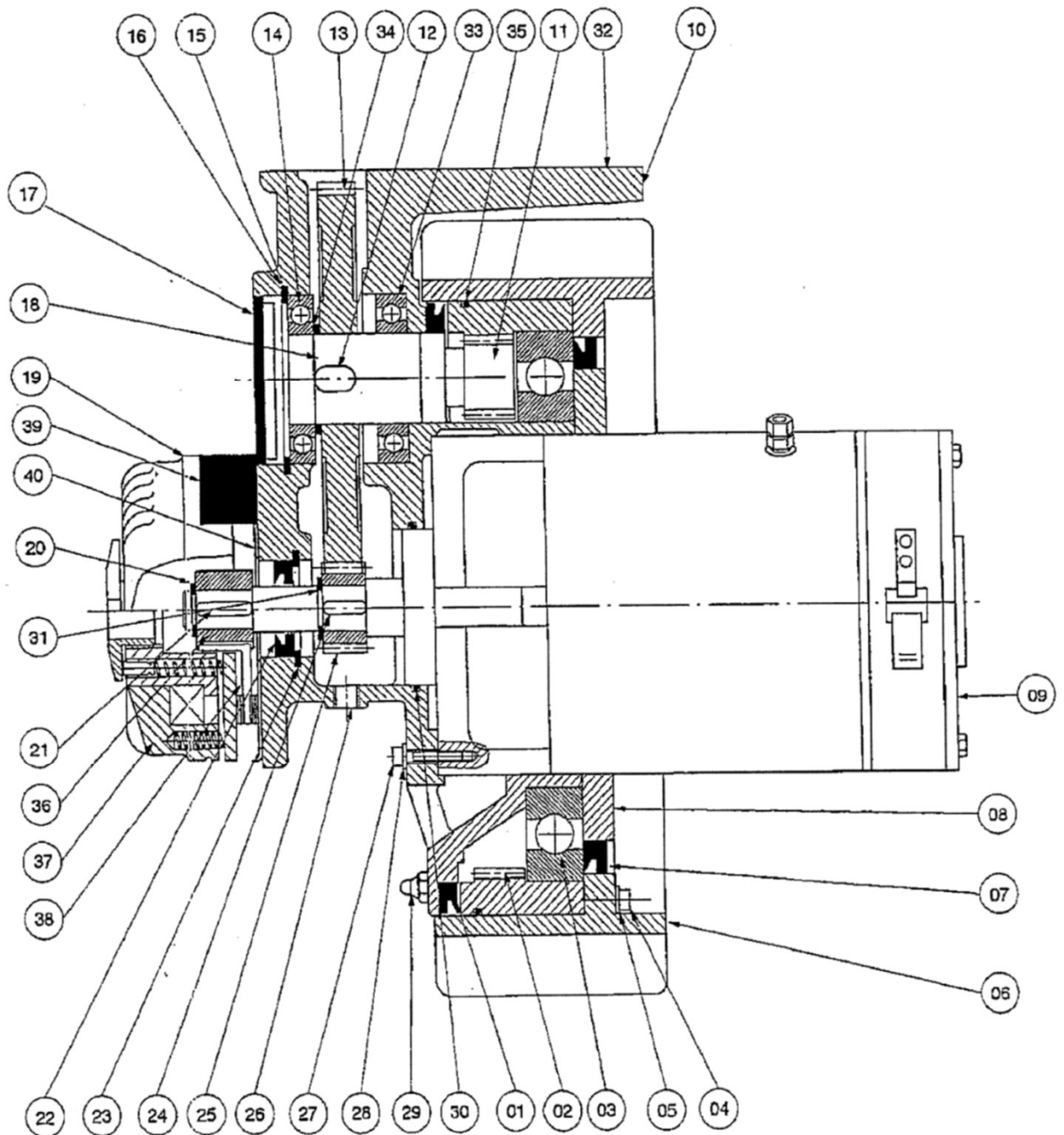
Hyd. Unit

ALV98 (After 02050427)

Ill. No.	Parts No.	Parts Name	Standard	Note & Change Date Info.	Qty /Unit	Price/ea.
LVE4-2	76005600	Unit Cover Assy	(28-4・35・162-3)		1	
21-2	11952440	Load Diagram Label			1	
26	80821824	Scrivet	3820		4	
28-4	11952420	Capacity Label	Cap. 980kg.		1	
35	52585040	Caution Label			1	
118-2	52003035	Bishamon Label	Before 06020303		1	
137	11139440	Overflow Tube	F1506-760 Black	After 13061367	1	
139	12600400	Function Label			1	
140	80821802	Rubber Cap	OB-13 (Black)		1	
141-2-1~3	N/A	Unit Case (Assy)			1	N/A
142	11138270	Oil Filling Port Label			1	
144	70819644	Power Pack 110K	DCCA1. 7F207AC1H 426L		1	
145	80819408	Carbon Brushing	4ea. /Set		1	
146	80819398	Micro Switch	Z-15GW 2255-MD (for lifting)	2ea. /set	1	
147	80819409	Contactor			1	
148	24997600	Lever Assy with Grip Ball			1	
149	76011110	Power Pack Lever Spring			1	
150	80819405	Solenoid Valve Assy	958-22-12S		1	
151	80819406	Solenoid Valve Coil	For 958-22-12S		1	
152	80814910	Connector	HS-S-10X1/4		1	
153-2	76010330	Pressure Pipe B Assy			1	
154	80813910	90° Elbow	HS-E1-10X1/4		3	
155-2	N/A	Unit Base (W/knocthing)	02050427~08051181	Replace with 155-4	1	N/A
155-3	N/A	Unit Base (W/knotching)	08051182~11121511	Replace with 155-4	1	N/A
155-4	12594492	Unit Base (W/knotching)	50X140	(11121512 - 13102142)	1	
155-5	12594493	Unit Base (for 141-2-3)	φ10 hole is drilled	After 13102143	1	
156-2	90780615	Round Head Screw	MSRPS0615SE	After 07050972	2	
157	90890815	Hex Bolt with Washer	HBS0815SE		6	
158-2	80662380	Fuse Holder	E110-100A		1	
159	90800815	Round Head Screw	MSRS0815SE		1	
160-1	76011301	Pressure Pipe A Assy	10X1.5-784	02050427~08051181	1	
160-2	76011302	Pressure Pipe A Assy	10X1.5-785	After 08051182	1	
160-3	12594580	Unit Cover Front	325X430	After 0205427	1	
163	80825291	Plastic Strap	CV-150 Qty was changed after 08070914		12→13	
171	90800610	Round Head Screw	MSRS0610SE Qty was changed after 07050972		4→2	
172-2	12594570	Connector Fixing Plate		Before 13102142	1	
172-3	12594571	Connector Fixing Plate		After 13102143	1	
173	90930106	Hex Nut	HN06SE		2	
174	90930506	Spring Washer	SW06SE		2	
175	80819951	Battery Connector	CB175 P/N 149112		2	
176	52594420	Charging Inlet Label			1	
177-2	90940640	Pan Head Screw	MSR0640SE		2	
190	76011140	Cam			1	
191	24008990	Charging Socket Handle	(Option)		1	
232-2	80821524	Saddle	AC-24		1	
261	11950040	Main Switch Label			1	
262-2	76010650	Circuit Contactor	CP51BS/40DC		1	
263	90800306	Round Head Screw	MSRPS0306SE		2	
266	80819960	Voltage Meter	FM-60 16V		1	
274	80820868	Buzzar	EB1112		1	
275-2	90800508	Round Head Screw	MSRS0508SE		2	
277	80662400	Fuse Holder	F-10		1	
278	90800412	Round Head Screw	MSRS0412SE		3	
279	80822350	Control Unit	CFR		1	
280	90890612	Hex Bolt with Washer	HBS0612SE		2	
281	80821430	Terminal Block	TU-80X2UD		1	
282	90800408	Round Head Screw	MSRS0408SE		2	
283	80821288	Terminal Block	TU-15X3UD		1	
284	76010621	SF Tube	SF-19 SSK L=500		1	

ALV98 (After 02050427)

Drive Wheel Assy

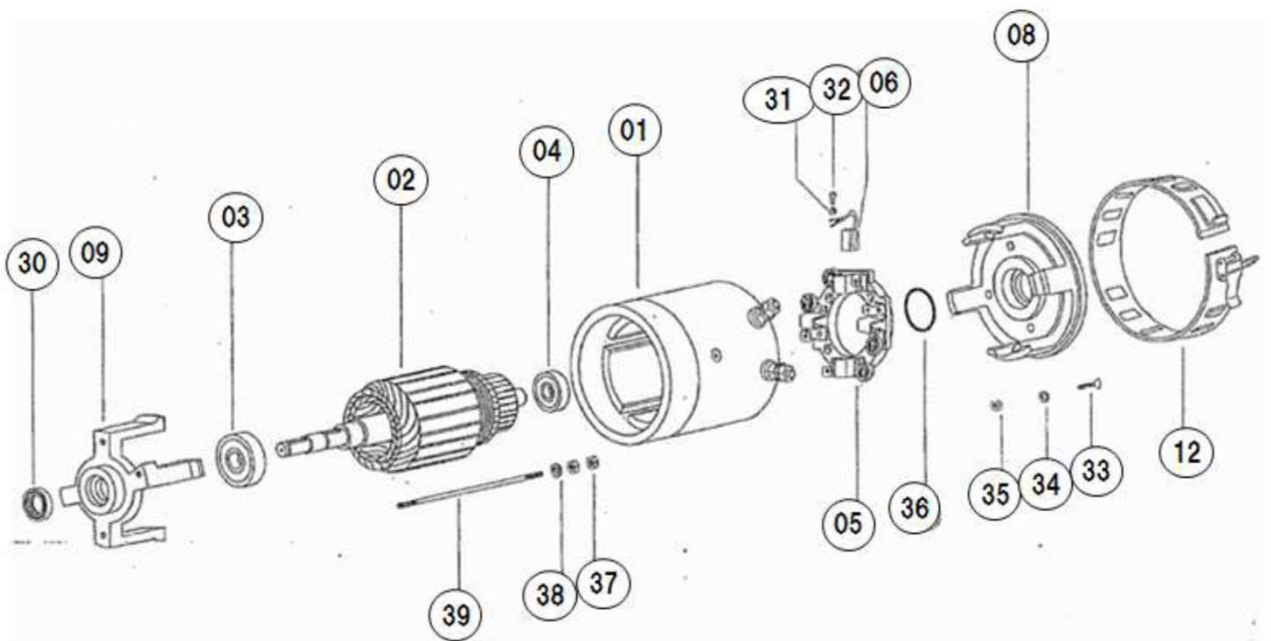


Drive Wheel Assy

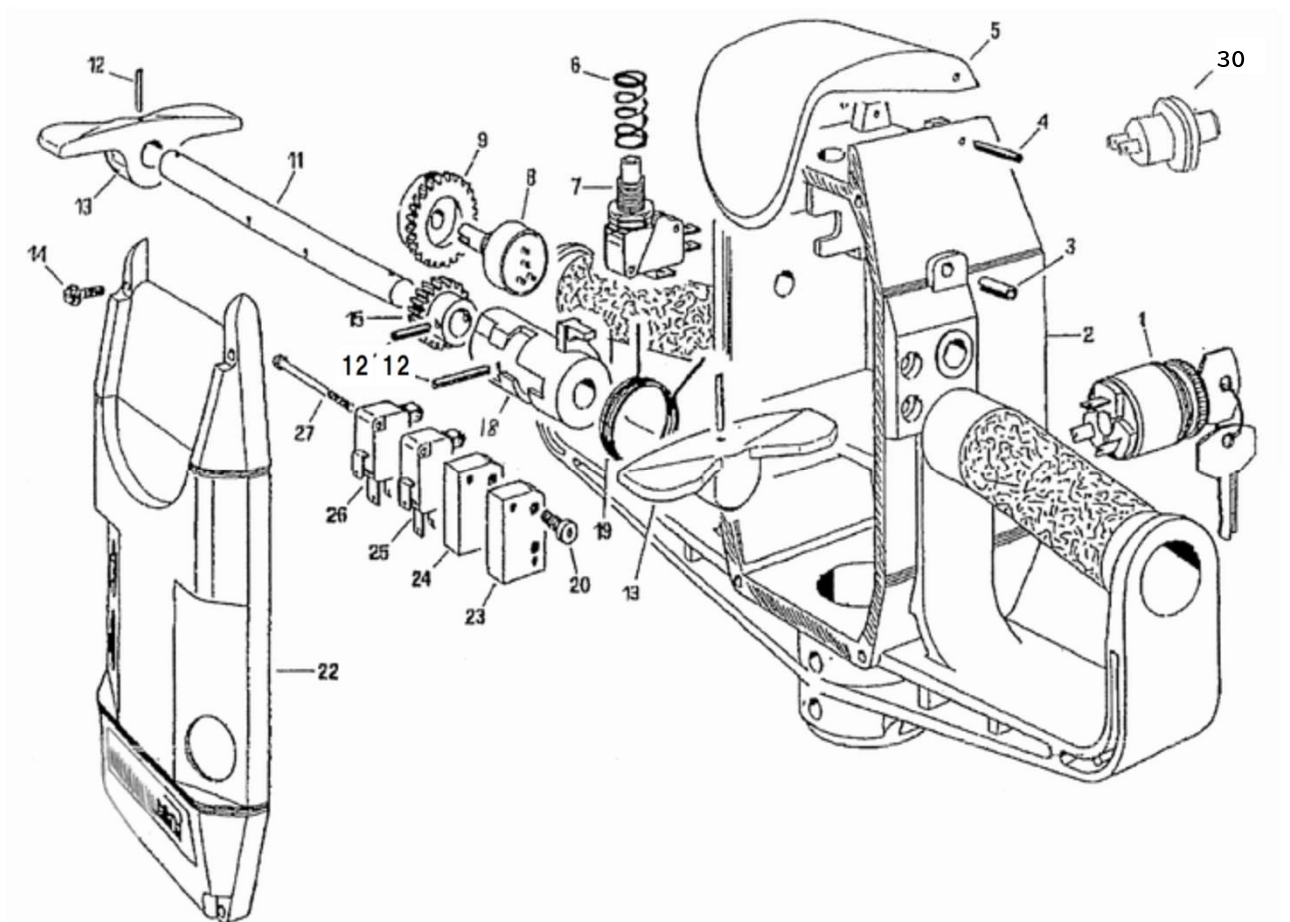
ALV98 (After 02050427)

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Motor for Drive Wheel



Control Handle



Motor for Drive Wheel

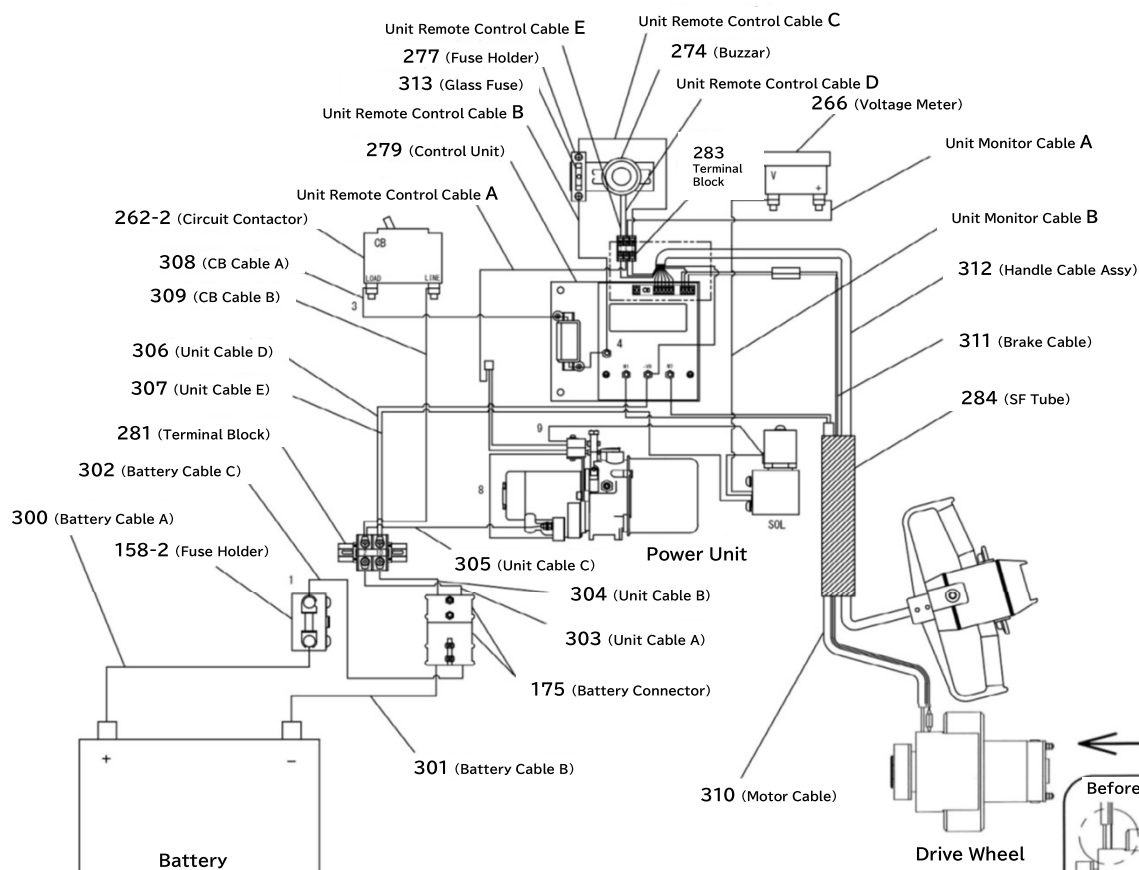
Ill. No.	Parts No.	Parts Name	Standard	Note & Change Date Info.	Qty /Unit	Price/ea.
1	72801001	Motor Case			1	Inquire
2	72801002	Armature			1	
3	72801003	Bearing			1	
4	72801004	Bearing			1	
5	72801005	Brush Holder			1	Inquire
6	72801006	Brush			4	
8	72801008	Brush Holder Support			1	Inquire
9	72801009	Flange			1	
12	72801012	Clamp			1	Inquire
30	72801030	Oil Seal			1	
31	72801031	Washer			4	Inquire
32	72801032	Screw			4	Inquire
33	72801033	Screw			4	Inquire
34	72801034	Washer			4	Inquire
35	72801035	Nut			4	Inquire
36	72801036	O Ring			1	Inquire
37	72801037	Nut			4	Inquire
38	72801038	Washer			2	Inquire
39	72801039	Screw Rod			2	Inquire

Control Handle

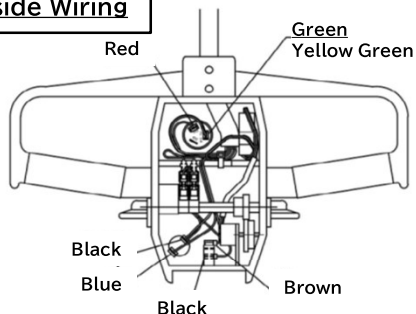
Ill. No.	Parts No.	Parts Name	Standard	Note & Change Date Info.	Qty /Unit	Price/ea. (J. Yen)
KB1	80822344	Switch Box			1	
1	72802001	Key Switch			1	
2	72802002	Handle Case			1	Inquire
3	90980520	Roll Pin	SRP0520		1	
4	90980324	Roll Pin	SRP0316		2	
5	72802005	Emergency Switch			1	Inquire
6	72802006	Spring			1	Inquire
7	72802007	Micro Switch			1	
8	72802008	Potention Meter			1	
9	72802009	Gear			1	Inquire
10						Inquire
11	72802011	Shaft			1	Inquire
12	72802012	Roll Pin	SRP0320		4	Inquire
13	72802013	Switch Lever			2	Inquire
14	72802014	Screw			4	Inquire
15	72802015	Gear			1	Inquire
18	72802018	Switch Cam			1	Inquire
19	72802019	Spring			1	
20	72802020	Screw			2	Inquire
21						
22	72802022	Handle Cover			1	Inquire
23	72802023	Support			1	Inquire
24	72802024	Spacer			1	Inquire
25	72802025	Micro Switch			1	
26						
27	72802027	Screw			2	Inquire
28						
29						
30	72802030	Push Button Switch	for Horn		1	Inquire

ALV98 (After 02050427)

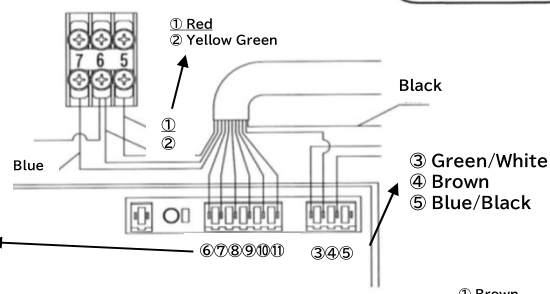
Wiring Info.



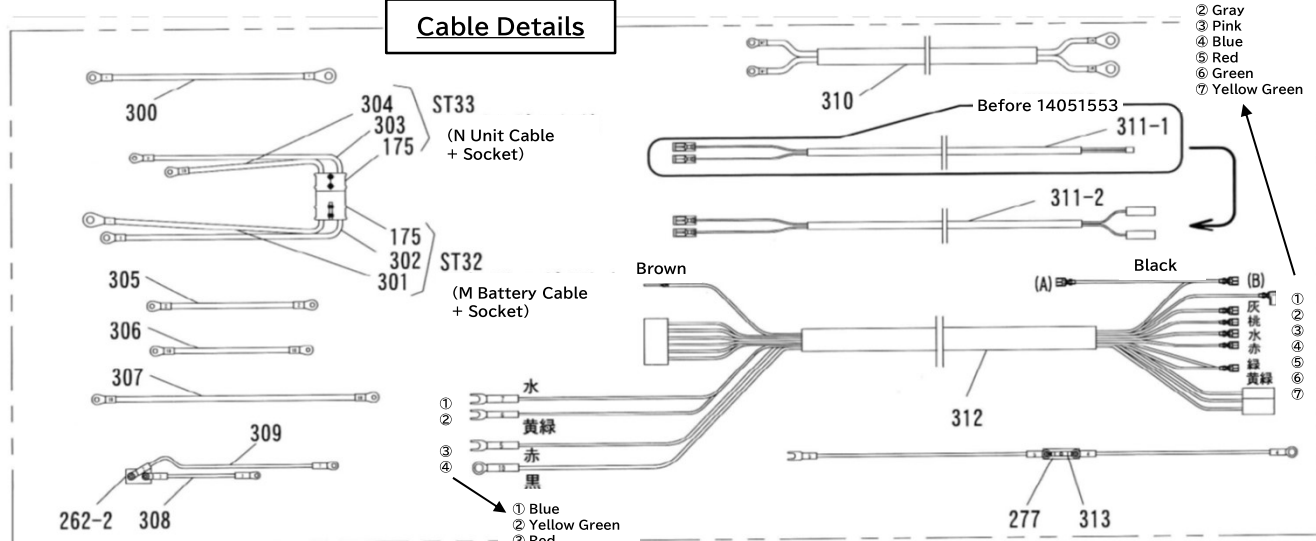
Handle Inside Wiring



Handle Cable Assy Wiring



Cable Details



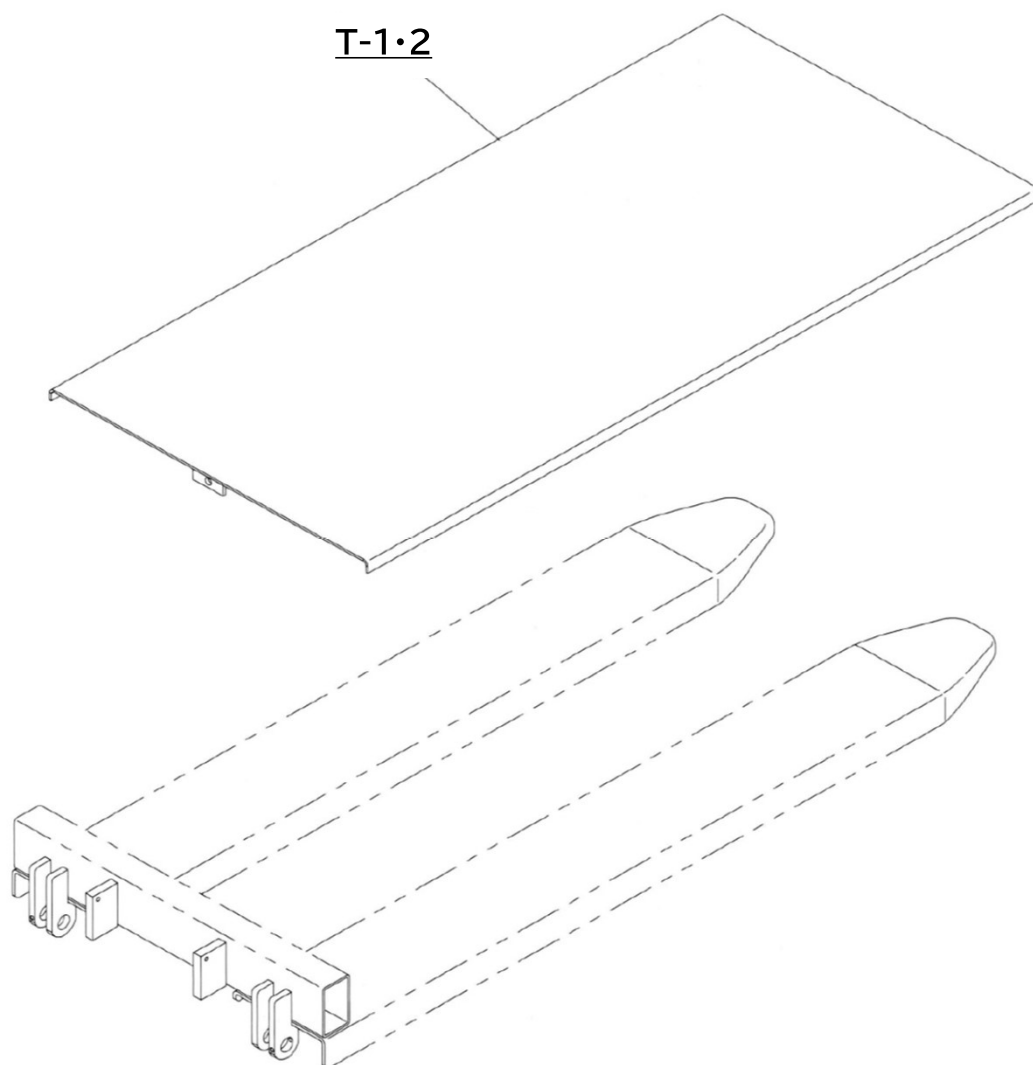
Wiring Info.

ALV98 (After 02050427)

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Option

Table



Option

LV100E.100WE (After July 1999)

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Bishamon

 **Sugiyasu Corporation**

3-21, 4-Chome, Hongo-Cho, Takahama City,
Aichi, Japan 444-1394

Tel. 81-566-53-1126, Fax. 81-566-53-1844
<http://www.bishamon.co.jp/>