PACIFIC HOISTS

Pacific Electric Chain Hoist

U-MEGA Series



OPERATION MANUAL
&
PARTS LIST

Model
PPH080-80kg
PPH125-125kg
PPH240-250kg
PPH500-500kg

CE

Copyright © 2023 by Pacific Hoists Pty Ltd. No portion of this manual is to be reproduced without written consent from. Specifications subject to change without notice.

SAFETY-IMPORTANT

The use of any hoist and trolley presents some risk of personal injury or property damage.

That risk is greatly increased if proper instructions and warnings are not followed. Before using this hoist, each user should become thoroughly familiar with all warnings, instructions and recommendations herein.



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS.
READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND ANY PROVIDED WITH THE EQUIPMENT BEFORE ATTEMPTING TO OPERATE THE PACIFIC PORTA HOIST.



CONTENTS

Safety-Important 1

1.Foreword 3

2.Main Specification 4

2.1 Specification 4

2.2 Mechanical Classification (Grade) and Life 5

2.3 Safety Device 6

2.4 Specification and Dimensions 7

3.Safety Rules 8

4.Installation 10

4.1 Unpacking Information 10

4.2 Voltage 10

4.3 Installation 11

5.Operation 12

6.Maintenance and Inspection 13

6.1 Maintenance 13

6.2 Inspection 13

7.Troubleshooting 16

7.1 Wiring Diagrams 16

7.2 Troubleshooting and Remedial Action 18

8.Drawings and Parts 19

9.Declaration Of Conformity 28

1.FOREWORD

This manual contains important information to help you properly install, operate and maintain the electric chain hoist for maximum performance, economy and safety.

Please study its contents thoroughly before putting the Pacific Porta Hoist into operation.
By practicing correct operation, procedures and by carrying out the preventative maintenance recommendations, you will be assured of dependable service. In order to help us to supply correct spare parts quickly, please always specify,

1. Hoist model

2. Serial number

3. Part number, plus the description.

Should you have any queries, please contact:

Pacific Hoists Australia
24 Foundry Road
Seven Hills NSW 2147
P | +61 2 8825 6900
E | sales@pacifichoists.com.au
W | www.pacifichoists.com.au

Pacific Hoists New Zealand
11 Druces Road
Wiri Auckland NZ 2104
P | +64 9 263 5566
E | sales@pacifichoists.co.nz
W | www.pacifichoists.com.au

2. MAIN SPECIFICATIONS

2.1 Specifications

Item		Detail		
Working temperature range (℃)		-5 to +40		
Working humidity range (%)		85 or less		
Protection	Hoist	IP 55		
	Push button Switch	IP 65		
Electric power supply		Single phase	240V	50Hz
Noise level (dB)		81		
Chain size	WLL (working load limit) (kg)	Nominal diameter (mm)	Pitch (mm)	
	80kg	4.0	12	
	125kg	4.0	12	
	250kg	4.0	12	
	500kg	4.0	12	

Remarks: (1) Intended use : This hoist has been designed for vertically lifting and lowering load under normal atmospheric conditions of work place.

(2) Noise levels were measured at a distance of 1m horizontally from the hoists during normal operation.

2.2 Mechanical Classification (Grade) and Lift

Safety and life for electric chain hoists are guaranteed only when the hoist

is operated in accordance with the prescribed grade.

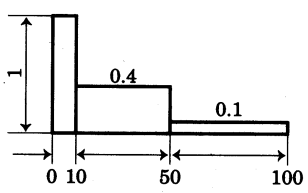
Single phase electric chain hoists have been designed for grade 1Am in the FEM regulations. (FEM 9.511)

Details are provided in Table 2-2.

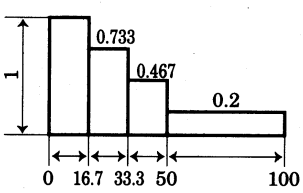
Average daily operating time and total operating time are determined by load distribution.

Table 2-2 Mechanical classification

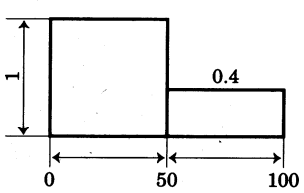
Load Spectrum (Load distribution)	Definitions	Cubic mean value	Average daily operating time(h)	Total operating time(h)
1 (light)	Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads.	k≦0.50	2 - 4	6300
2 (medium)	Mechanisms or parts thereof, usually subject to small loads but rather often to maximum loads.	0.50<k ≦0.63	1 - 2	3200
3 (heavy)	Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads.	0.63<k ≦0.80	0.5 - 1	1600
4 (very heavy)	Mechanisms or parts thereof, usually subject to maximum of almost maximum loads.	0.80<k ≦1.00	0.25 - 0.5	800



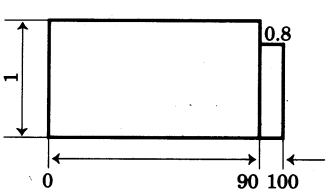
% operating time
Load spectrum 1



% operating time
Load spectrum 2



% operating time
Load spectrum 3



% operating time
Load spectrum 4

2.3 Safety Devices

(1) Mechanical load brake

The mechanical load brake can hold a full capacity load independent of motor brake. This brake assures that load does not accelerate while being lowered.

(2) Hook and hook latch

The hook is drop-forged from high tensile steel and heat treated for strength and toughness.

The button hook is capable of 360° swivel and fitted with safety latch to ensure safe lifting.

(3) Limit Switches

Upper and lower limit switches are fitted for switching off power automatically in case of over lifting.

(4) Emergency stop device

This button is used to stop the hoist in an emergency situation. It is red, mushroom type button, located in the uppermost position on the pendant. When pressed, power to the equipment is switch off and button locks automatically. Turning it to the right will release the lock and to enable re-starting.

(5) Shock protection

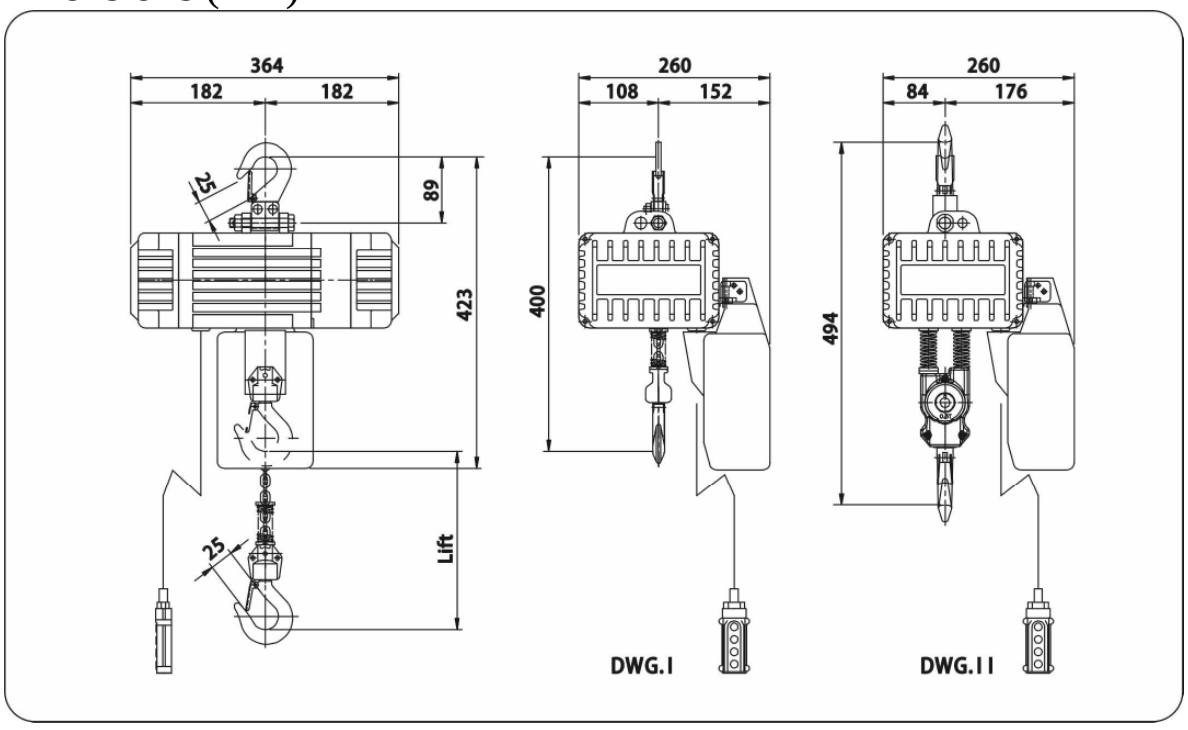
It cannot run, when you push the button for anti-direction in “UP” or “DOWN” running. You must wait over 1 second.

2.4 Specification and Dimensions

a. Specification

Rated Power Source		240V,50Hz			
Type		Dual-Speed Type			
Model		PPH080	PPH125	PPH240	PPH500
Rated Load(kg)		80	125	250	500
Motor Output(W)		300	300	600	600
Time Rating(min)		15			
Intermittent Duty	Duty Rating (% ED)	30			
	Max. Starting Frequency (times/hr)	180			
Rated Current(A)		3.0		5.0	
Lifting Speed (m/min)	Low	1.8-4.8	1.25-3.2	1.25-3.2	6.3-1.6
	High	18	12.5	12.5	6.3
Standard Lift(m)		6			
Push Button Cord(m) Length : L		5			
Load Chain Diameter(mm)		4×12			
N.W./G.W.	6m(kg)	17.5/20.6			21.5/24.5
Packing L×W×H (mm)		500×390×205			
DWG.		I	I	I	II

b. Dimensions (mm)



3. SAFETY RULES

DANGER

The hoist herein is not designed for, and should not be used for, lifting, supporting, or transporting personnel. Never modify, re-rate, or otherwise alter the hoist equipment.

(1) Only the trained personnel are allowed to operate the hoist.

(2)

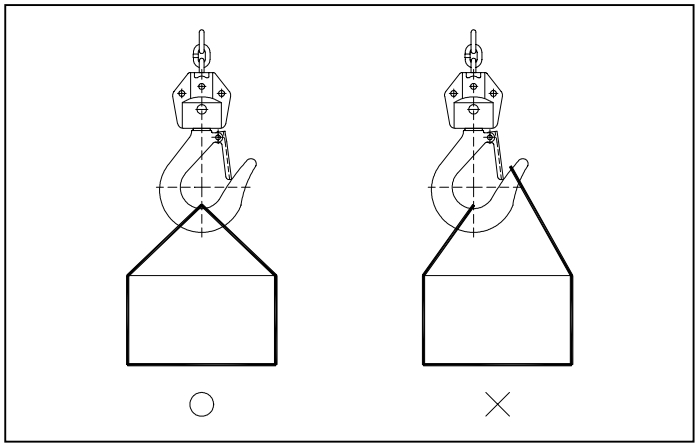
DANGER

Do not use the hoist in explosive atmosphere.

(3) Prior to each lifting operation, it is essential to make sure that:

(a) The correct lifting sling is being used.

(b) The lifting sling is located in the hook as shown below (Illust. 2) and that a safety latch has been fitted.



Illust. 2

(c) The object to be hoisted is well secured for direct lifting (a proper lifting frame or apparatus is strongly recommended for direct lifting .)

(4) Firm and steady button operation is required, never push the button switch intermittently.

(5) Always avoid excessive inching operation.

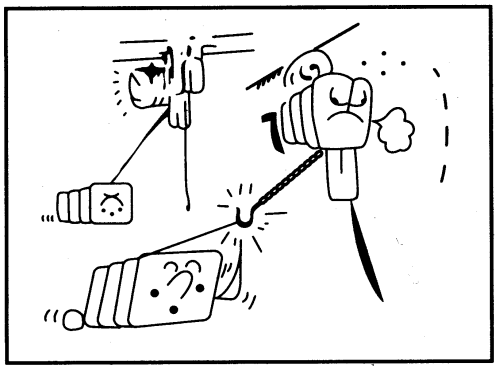
(6) Always make sure the hoist motor completely stops before reversing.

(7) Always leave the pendant button switch cable and bottom hook load chain vertically static after completion of operation, never leave them at any position, which may allow them to swing or slip.

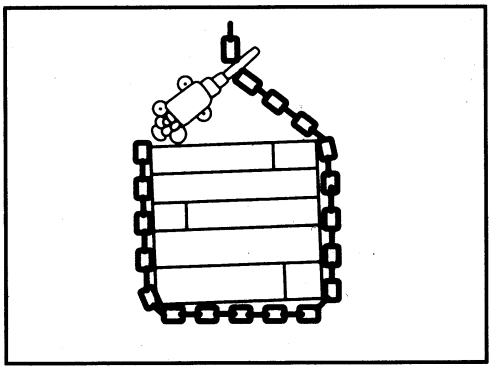
(8) Sling must be applied to load evenly and centrally to ensure correct balance. Never lift any object which is insecure or out of balance.

(9) Never use hoist to end or side pull a load. (Illust. 3)

(10) Never wrap around and hook back the load chain as a sling to lift a load. (Illust. 4)



Illust. 3



Illust. 4

(11)

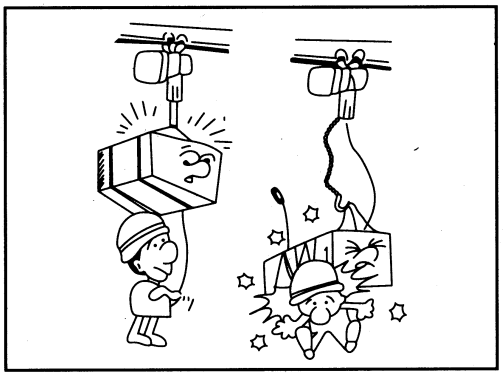
! ARNING

Do not use the hoist chain as a welding electrode.

(12)

! DANGER

Never stand under a raised load (Illust. 5)



Illust. 5

(13) Lifting must always be personally attended, never leave a raised load unattended.
(14) Over-capacity-load lifting is hazardous and should not be undertaken.
(15) Never lift a load when the load chain is twisted.
(16) Regularly inspect and check the condition of load chain. Do not operate with damaged chain.
(17) Always visually inspect the hoist prior to use.
(18)Bucket Specifications:

Bucket No.	Key No.	Bucket Size (mm)	Fall No.	Lift (m)	Chain (mm)	Material
BD1#	208813	90x130x245	1	3~6	§ 4.0	Polyethylene
			2	3		
BD2#	201386	120x160x230	1	7~12	§ 4.0	Polyethylene
			2	4~6		
BD3#	201606	130x170x260	1	13~18	§ 4.0	Canvas
			2	7~9		
BD4#	201607	130x170x310	1	19~24	§ 4.0	Canvas
			2	10~12		
BD5#	201608	130x170x390	1	25~30	§ 4.0	Canvas
			2	13~15		
BD6#	201609	130x170x470	1	31~36	§ 4.0	Canvas
			2	16~18		
BD7#	201610	130x170x550	1	37~42	§ 4.0	Canvas
			2	19~21		
BD8#	201611	130x170x645	1	43~50	§ 4.0	Canvas
			2	22~25		

4. INSTALLATION

4.1 Unpacking Information

After removing the hoist from its packing box, carefully inspect the external condition of the electrical cables, contactor, gear box and motor casing for damage.
Check and ensure that these items are present.
Each hoist is supplied as standard with the following accessories.

1. Chain bucket	1 piece
2. Power cable	5 meters
3. Separated control cable with PBS and male plug	1 set

Table. 4-1

4.2 Voltage



CAUTION

If power supply deviates from standard by more than ± 10%, abnormal operation or damage to the motor may result. It is imperative to ensure correct voltage supply before commencing operation.

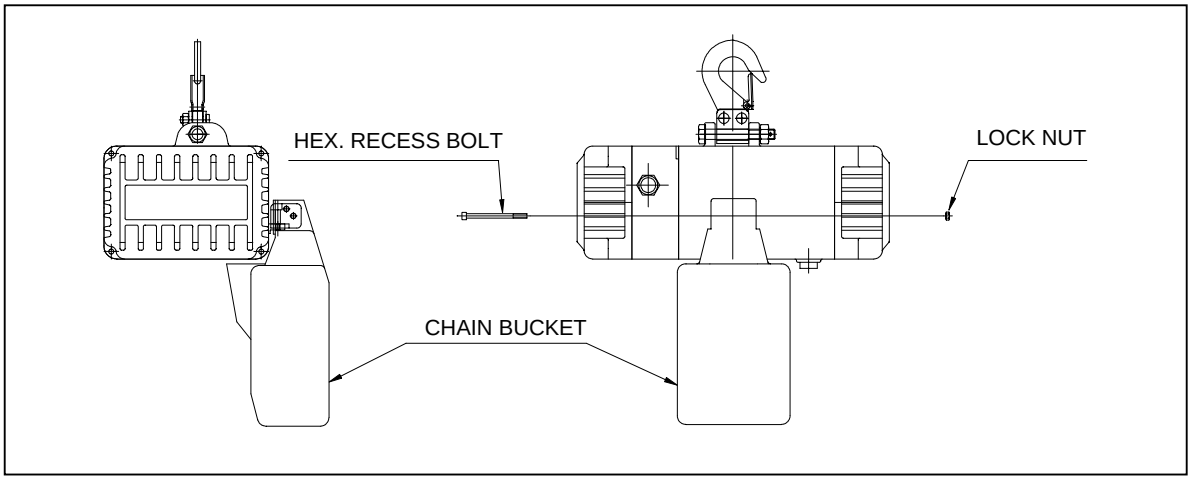
4.3 Installation

WARNING

Connection to power supply
The equipment safety earth connection on the plug must NEVER be removed.

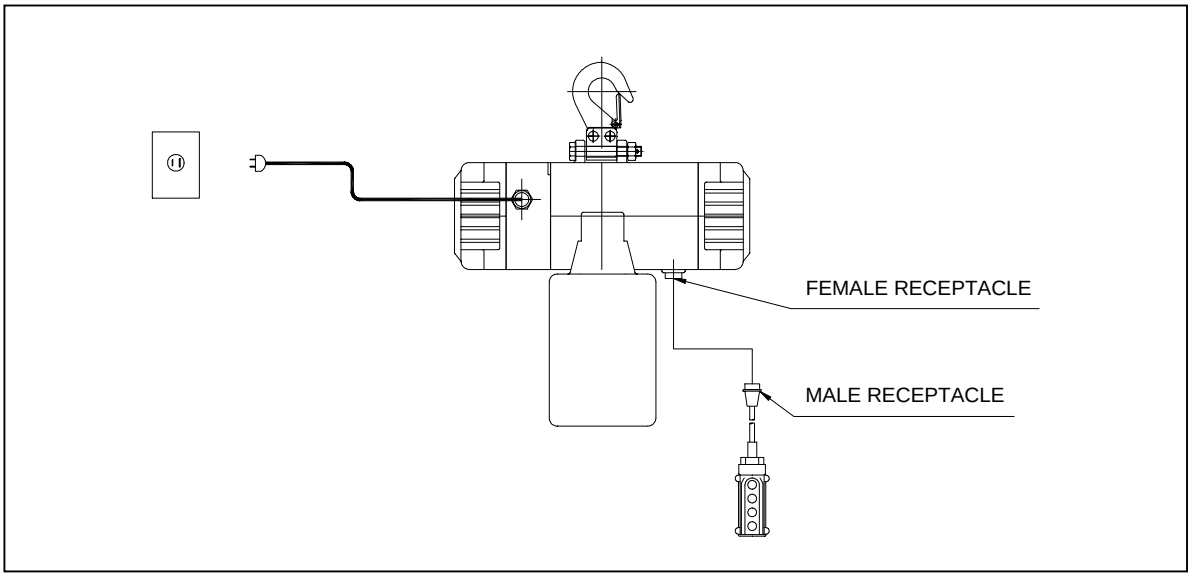
(1) Prior to installation check and ensure that the top hook assembly is securely attached to the hoist by means of the lock bolt (key No.55, page.19).

(2) Assemble chain bucket



Illust. 6

(3) Plug power supply to hoist and operate the push button switch. This operation must be carried out by a trained person.



Illust. 7

(4) Operation Test

(a) Firmly push ⬇ switch button to lower load chain until the chain end buffer touches the limit switch. Power should be cut off automatically.

(b) Firmly push ⬆ switch button to check the collection of load chain into chain bucket.

(c) Check load chain lubrication. (It has been lubricated at our works, but the lubricant may dry out during transportation) Any readily available lubricant is recommended.

It is further advisable to keep a small amount of lubricant in chain bucket to allow chain in oil bath.

(d) Check the emergency stop device function :

While holding down either ⬆ or ⬇ button on the push button switch, push the emergency stop button. Check that the hook stops when the emergency stop button is pushed. Also, check the hoist does not move in response to the push button switch. Finally, check that the emergency stop device pops out when turned to the right and that operation can be resumed thereafter. If the equipment fails to pass another above checks, check the wiring and automatic locking function of the emergency stop device.

5. OPERATION

After running test and checks have been completed, the hoist will be ready for normal operation.

WARNING

Since dealing with heavy loads may involve unexpected danger all of the "SAFETY RULES" (Ref 3.) must be followed and the operator must be aware of the following points while using the hoist.

(1) On connection of power supply allow 15 seconds to initiate start up.
(2) The operator must have a clear and unobstructed view of the entire working area before operating the hoist.
(3) The operator must check that the entire working area is safe and secure before operating the hoist.
(4) When using the hoist with a plain trolley, the operator must take care to prevent excessive load swinging by sympathetic push trolley movements.

6. MAINTENANCE AND INSPECTION

DANGER

Do not perform maintenance on the hoist while it is carrying a load except monthly checking for the brake, limit switch or slip clutch.

DANGER

Before performing maintenance do not forget to affix tags to the power source and the push button switch reading : "DANGER", "EQUIPMENT BEING REPAIRED".

6.1 Maintenance

(1) Check the level of gear box lubricant after first 100 hours of operation, thereafter every 3 months and lubricant accordingly. Lubricant use ISO VG460 or equivalent.

(2) Always keep the hoist unit dry and never misuse it in a manner likely to reduce its durability.

(3) When it is necessary to keep the unit outdoors, a protective covering should be fitted.

6.2 Inspection

(1) Daily inspection: Before starting daily operation, check the following,

(a) correct power supply.

(b) "Up" , "Down" and test runs under no load.

(c) correct motor performance.

(d) no abnormal or excessive noise.

(e) no malfunction of the bottom hook safety latch.

(f) proper function of moving/turning parts, limit switches and brake.

(g) well lubricated load chain.

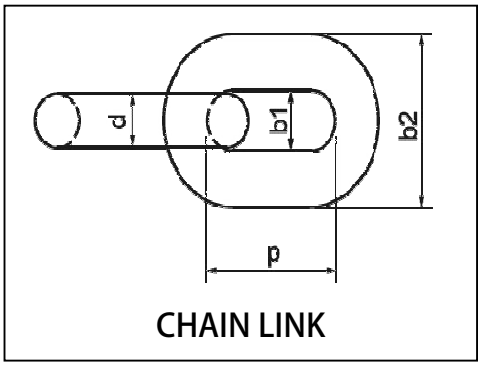
(2) Monthly inspection

WARNING

Always use the hoist manufacture's recommended parts when repairing a hoist.

(a) Load chain:

Distorted, elongated or worn chain link will not sit properly on the load sprocket wheel and may cause chain breakage and/or damage to hoist unit. To ensure safe and efficient operation, the chain links must be checked for their pitch (inside length, inside width) and outside width monthly according to following table.



Dia-Meter (mm) (d)	Inside Length (mm) (p)	Inside Width (mm) (b1)	Outside Width (mm) (b2)	Breaking Load (kN)
4	12	5	13.6	20.1

Measuring

(1) The chain gauge is useful and convenience for measuring.

(2) Please use a chain gauge to measure the chain pitch and diameter, per illustrations (1) and (2).

(3) Every chain ring must be measured, and the chain must be replaced when one of chain ring is wear or stretch.

(4) It will be a cutting-out possibility if you use a chain fall either wear or stretch during operation.

(5) Do not replace a chain fall by yourself and do please contact specific either service centers or contractors to help you out.

(6) The chain fall must be replaced whole instead of in part.

(7) The load sheave, regulator, and regulator plate wheel must be replaced the same time as you do a chain replacement.

Note **:** Chain must be in perfect condition without any defects.

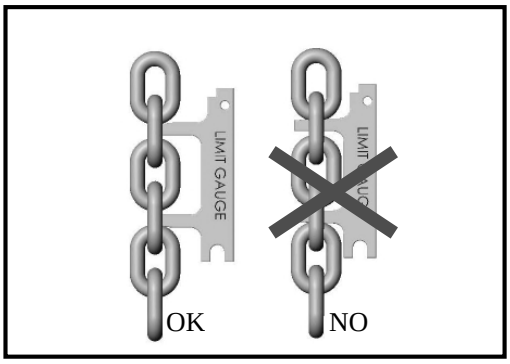


Illustration (1) Chain pitch measure

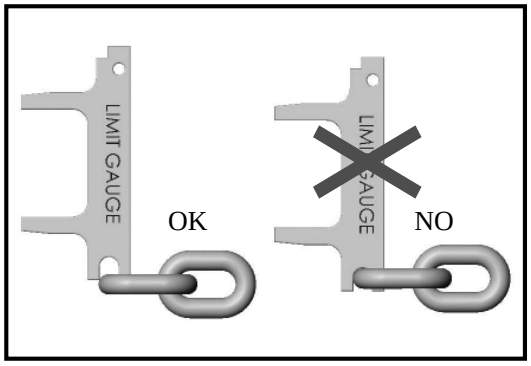
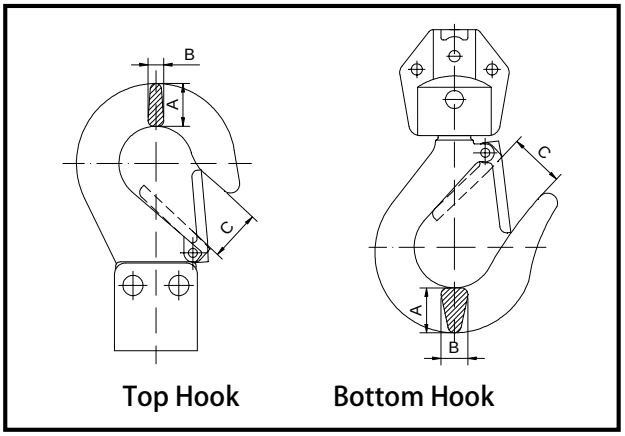
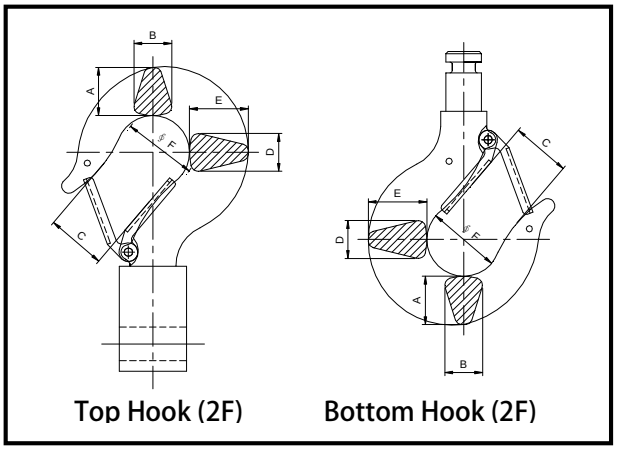


Illustration (2) Diameter measure

(b)Load hook:

Check hook with care. If hook shows crack deformation or wear in excess of 5% of its original size, it should be replaced. (Ref. following table)





Fall	Hook	Dimensions (mm)					
		A	B	C	D	E	F
1F	Top hook	19	7	25	-	-	-
	Bottom hook	20	12	25	-	-	-
2F	Top hook	23	18	28	18	28	34
	Bottom hook	23	18	28	18	28	34

(3) Annual inspection

WARNING

Your dealer should be asked to perform this inspection.

(a) Check gearing for any excessive wear or damage.

(b) Replace gear box lubricant completely (**PPH-080 & PPH-240 & PPH-125 & PPH-500/500C.C ±10%)** as following table for your reference.

NOTE：We recommend using lubricant oil equivalent to SHELL OMALA S4 WE 460.

※ Table of recommended oils according to DIN 51354

ISO-VGDIN 51519 viscosity At 40°C mm^2/s(cST)	Approximate viscosity of the VG Categories 50°C mm^2/s(cST)	ARAL	BP	ESSO	MOBIL OIL
VG460	251	Aral Degol BG 460-BMB 460	BP Energol GR-XP 460	Spartan EP-460	Mobilgear 634

ISO-VGDIN 51519 viscosity At 40°C mm^2/s(cST)	Approximate viscosity of the VG Categories 50°C mm^2/s(cST)	SHELL	TEXACO	I..P.	AGIP
VG460	251	Omala oil 460	Meropa 460	Mellana 460	Blasia 460

(a) Check brake lining and ratchet pawl for any wear or damage.
(b) Check operation of pawl spring.
(c) After reassembly of above check, lifting a load several times to ensure good performance of the hoist before starting duty operation.

7. TROUBLESHOOTING

7.1 Wiring Diagrams

(1)90V~270V – 1Ph – 50Hz power supply (with Emergency Stop) 17

The above listed wiring diagram for reference only.

The end user should refer to the wiring diagram stuck to the inside cover of electric housing.

Our electric specifications can be done according to following.

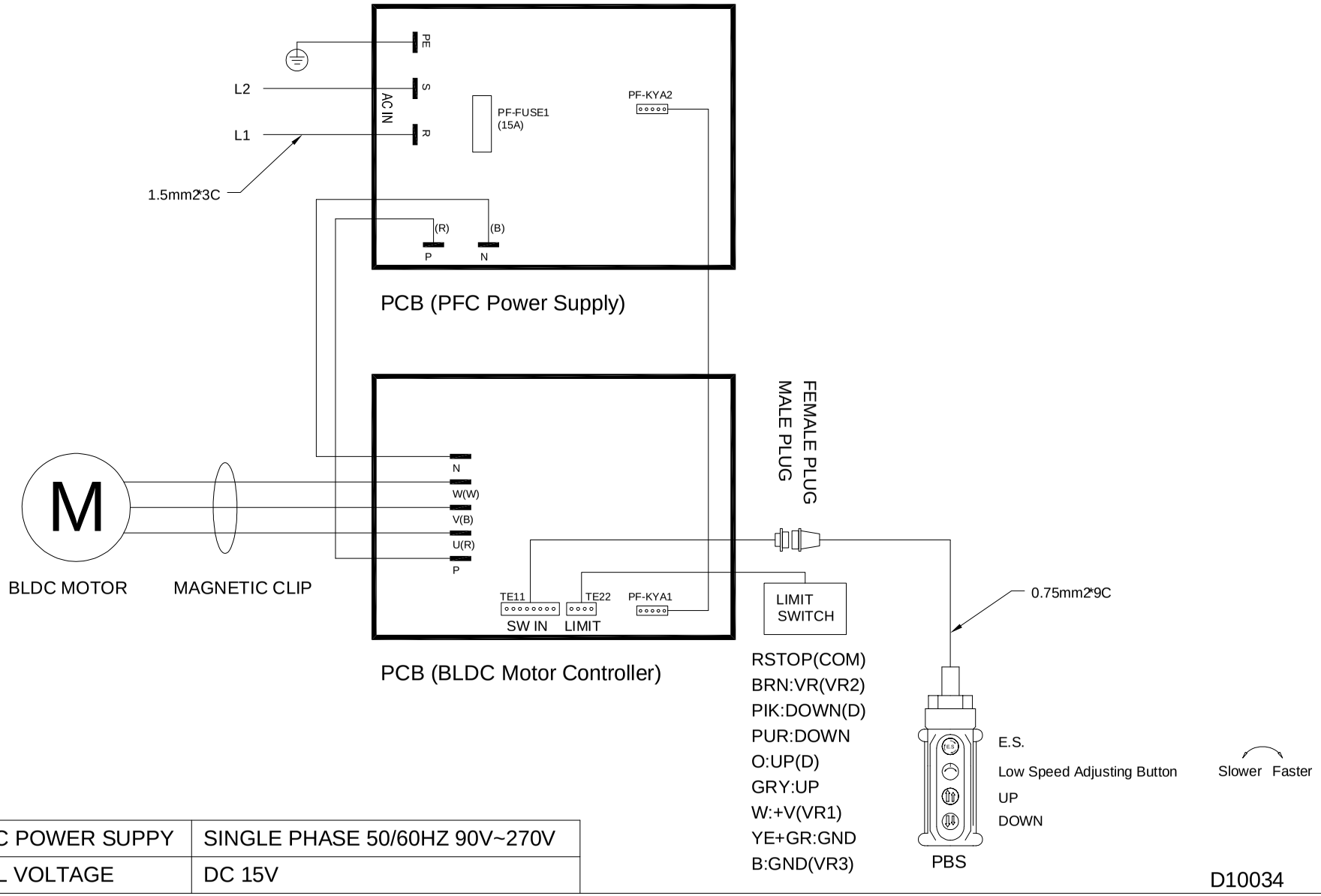
(a) 1 – Phase

(b) 50Hz

(c) 90V~270V

Warranty Details

1. Warranty Period : One year for Mechanical Spare Parts after purchase the product.
2. Non-Warranty Scope:
   a. Electrical Spare Parts (ex. Contactor, Pendant, Phase Error Relay, etc.)
   b. Expense Spare Parts (ex. Chain Bucket, Brake Lining, etc.)
   c. Damage caused by unsuitable operation.
      (ex. Galvanize plant, Chemical Plant, Dye-work, etc.)
   d. Damage caused by operating on the wrong electric voltage.
   e. Damage caused by user amend the product.
   f. Damage caused by natural disaster.
3. Warranty Scope shall be permitted by and Within One Year of damaged Mechanical Spare Parts Repair and Replacement.
   (circumstance stated in detail No. 2 are not included.)



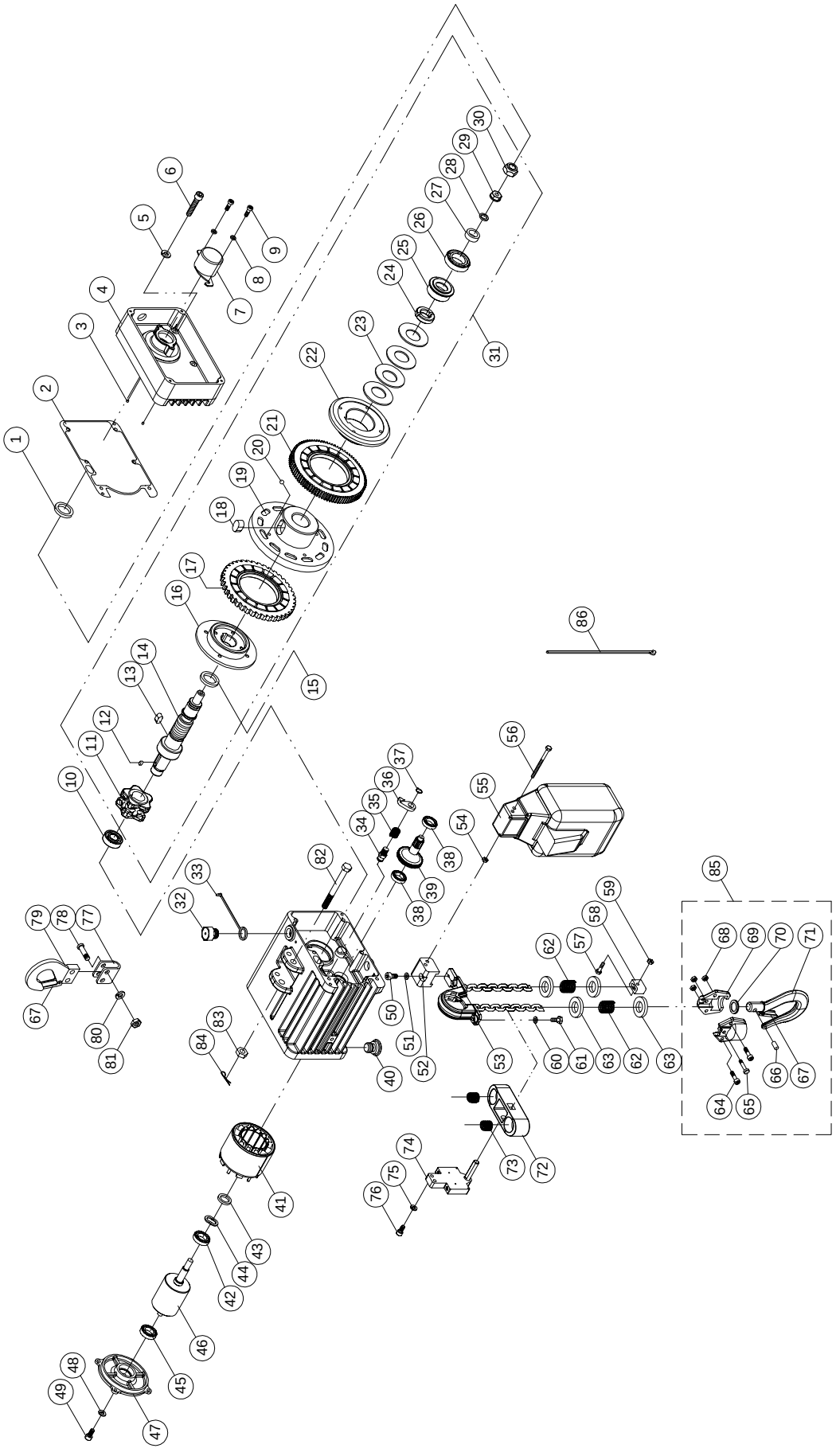
ELECTRIC POWER SUPPY	SINGLE PHASE 50/60HZ 90V~270V
CONTROL VOLTAGE	DC 15V

D10034

7.2 Troubleshooting and Remedial Action

SITUATION	CAUSE	REMEDY
Hoist will not operate	(1) Phase error relay operated due to incorrect phase connections.	Check the phase connections of controller & the wire's color of BLDC motor for correct Ref. Page 17
	(2) Blown power fuse or tripped power circuit breaker.	Check supply requirements and refuse/reset breaker to meet requirements Contact your authorized dealer- if high voltage fuse was blown
	(3) Blown control circuit fuse.	Check fuse for correct rating and replace
	(4) Broken/disconnected power or control circuit wire.	Locate and repair/reconnect (take the power supply away until 10 min. later)
	(5) Low supply voltage	Check if 10% reduction in voltage, have mains supply checked
	(6) Motor hums but does not rotate	Check motor-insulate and wire connection
	(7) Emergency stop button release pushed	Check the cause as necessary
	(8) The button of PBS is fixed (9) The button or Elect. wire of PBS is broken	Release the button of PBS Replace or repair it (take the power supply away until 5 min. later)
	(10) Broken/is connected limit switch	Locate and repair/reconnect
Brake slips	Abrasion of motor brake	Replace
Hoist runs but does not lift	(1) Clutch slipping	Contact your authorized dealer – this adjustment needs to be carried out on a test rig
Abnormal sound on load chain/chain sprocket	(1) Chain dry (2) Worn chain sprocket	Lubricate Replace load chain and chain sprocket
Electric shock	(1) Poor earth connection (2) Accumulated foreign matter/ moisture on electrical parts	Provide correct earth connection Remove foreign matter/dry electrical parts
Oil leak	(1) No oil plug (2) Loose fitting of oil plug (3) No plug packing (4) Worn or deteriorated oil packing	Attach the normal oil plug Fasten the plug tightly Attach normal packing Attach the new packing

PPH080,PPH125,PPH240 BODY EXPLOSION



BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			PPH080	PPH125	PPH240
1	400943	Oil Seal <Ø25×Ø35×5t>	1	1	1
2	402586	Gasket #40	1	1	1
3	400615	Parallel Pin <Ø5×12L>	2	2	2
4	208815N	Gearbox	1	1	1
5	400094	Spring Washer <M6>	6	6	6
6	400418	Hex. Recess Bolt <M6×1.0×30L>	6	6	6
7	208836	Cover	1	1	1
8	400661	Flat Washer <M4>	2	2	2
9	408394	Cross Headed Screw <M4×0.7×6L>	2	2	2
10	400110	Bearing <6202 ZZ>	1	1	1
11	208834	Load Sheave	1	1	1
12	405924	Key <t5×5×20L>	1	1	1
13	400962	Key <t6×6×12L>	1	1	1
14	201219	Sheave Spindle <Ø30×145L>	1	1	1
15	400934	Oil Seal <Ø30×Ø50×8t>	1	1	1
16	201321	Brake Body <Ø83×Ø20×17.5L>	1	1	1
17	208843	Ratchet Ass'y	1	1	1
18	405944	Key <t10×8×16L>	1	1	1
19	201340	Brake Bushing <Ø105×27.85L>	1	-	-
	201327	Brake Bushing <Ø105×27.75L>	-	1	1
20	400289	Ball	3	3	3
21	268132	4th Gear Ass'y <M1.25×83T>	1	-	-
	201329	4th Gear Ass'y <M1.25×89T>	-	1	1
22	201323	Brake Flange <Ø87×19.1L>	1	1	1
23	207118	Disc Spring	3	3	-
	200404		-	-	4
24	200272	Load Brake Gear Spacer	2	2	2
25	201325	Bush <Ø34×10L>	1	1	
	206563	Bush <Ø34×12L>			1
26	400125	Bearing <6003>	1	1	1
27	200402	Oil Bush <Ø25×Ø17×9L>	1	1	1
28	400226	O-Ring <Ø12×Ø17×2.5>	1	1	1
29	200407	Flange Nut <M10×1.5×8L>	1	1	1
30	400089	Lock Nut <M10×1.5>	1	1	1

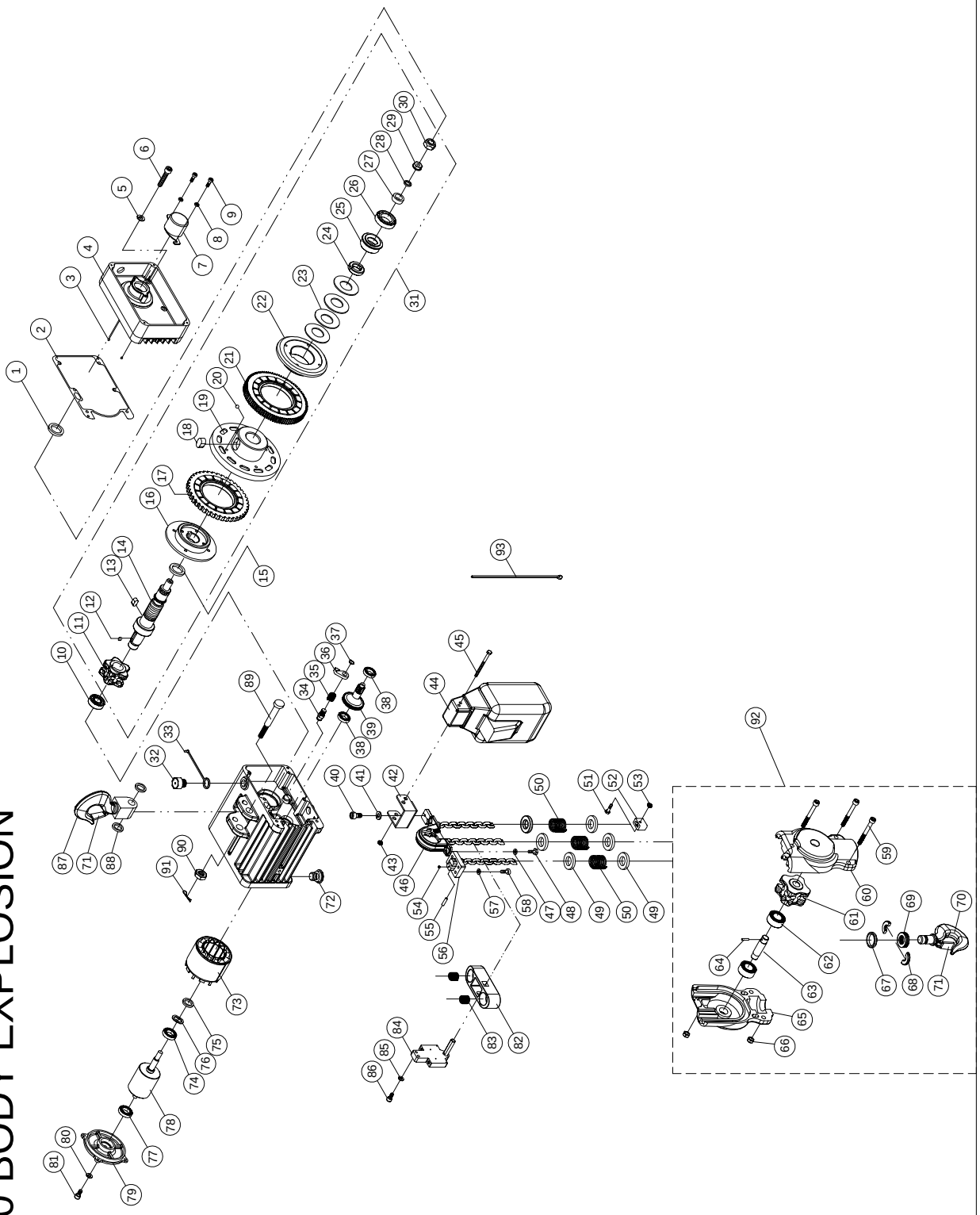
BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			PPH080	PPH125	PPH240
31	268221	Over Load Ass'y	1	-	-
	268222		-	1	-
	201200				1
32	200926	Hex Oil Plug	1	1	1
33	200927	Air Plug	1	1	1
34	200416	Ratchet Pawl Pin <d14×26L >	2	2	2
35	408512	Ratchet Pawl Spring	2	2	2
36	200415	Ratchet Pawl	2	2	2
37	400907	Retaining Ring <S-11>	2	2	2
38	407845	Bearing <6000>	2	2	2
39	201320	2nd & 3rd Gear Set	1	-	-
	200417		-	1	1
40	300523	Oil plug <Philips Machine Screw Ass'y>	1	1	1
41	106120N	Stator Ass'y <300W>	1	1	-
	106109N	Stator Ass'y <600W>	-	-	1
42	405641	Bearing <6201 2RS>	1	1	1
43	400945	Oil Seal <Ø12×Ø25×7t>	1	1	1
44	400863	Wave Washer <6201>	1	1	1
45	405569	Bearing <6201ZZ>	1	1	1
46	102522	Rotor <300W>	1	1	-
	102523	Rotor <600W>	-	-	1
47	106111	Motor End Cover	1	1	1
48	400093	Spring Washer <M5>	4	4	4
49	400003	Hex. Recess Bolt <M5×0.8×16L>	4	4	4
50	408396	Hex. Recess Bolt <M5×0.8×10L>	1	1	1
51	400093	Spring Washer <M5>	1	1	1
52	208824	Chain Bucket Connector	1	1	1
53	208816	Chain Guide	1	1	1
54	400646	Lock Nut<M5>	2	2	2
55	208813	Chain Bucket <No.1>	1	1	1
56	408486	Hex. Recess Bolt <M5×0.8×70L>	2	2	2
57	200445	Lock Pin <Ø10×25.5L>	1	1	1
58	200441	Chain Stopper <24×19×13.5>	1	1	1
59	400646	Lock Nut <M5>	1	1	1

BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT		
			PPH080	PPH125	PPH240
60	400094	Spring Washer <M6>	2	2	2
61	400006	Hex. Recess Bolt <M6×1.0×16L>	2	2	2
62	408485	Spring	2	2	2
63	200442	Buffer Steel Plate < Ø 25.5×Ø 14×t4>	4	4	4
64	408329	Hex. Recess Bolt <M5×0.8×20L>	2	2	2
65	200445	Lock Pin <Ø10×25.5L>	1	1	1
66	407463	Parallel Pin <Ø8×25L>	1	1	1
67	200480	Safe Latch Ass'y	2	2	2
68	400646	Lock Nut <M5>	3	3	3
69	201371L	Bottom Hook Cover Set	2	2	2
70	400830	Thrust Bearing	1	1	1
71	201372L	Bottom Hook	1	1	1
72	208857	Collision Block	1	1	1
73	408588	Collision Block Spring	2	2	2
74	208818	Limit Switch Ass'y	1	1	1
75	400093	Spring Washer <M5>	2	2	2
76	400417	Hex. Recess Bolt <M5×0.8×20L>	2	2	2
77	200432	Top Hook Suspension <t20×37×39L>	1	1	1
78	200433	Top Hook lock bolt <Ø12×29.5L>	2	2	2
79	200456L	Top Hook	1	1	1
80	400095	Spring Washer <M8>	2	2	2
81	400088	Lock Nut <M8×1.25>	2	2	2
82	208827	Lock Bolt < Ø12/M12x1.75x85L>	1	1	1
83	400084	Hex. Nut <M12×1.75>	1	1	1
84	400610	Cotter Pin <Ø3×30L>	1	1	1
85	228922L	Bottom Hook Ass'y	1		
	228902L			1	
	228921L				1
86	400512	Substitute Chain <Ø4.0×12>	1	1	1

PPH500 BODY EXPLOSION



PPH500 BODY PARTS B.O.M.

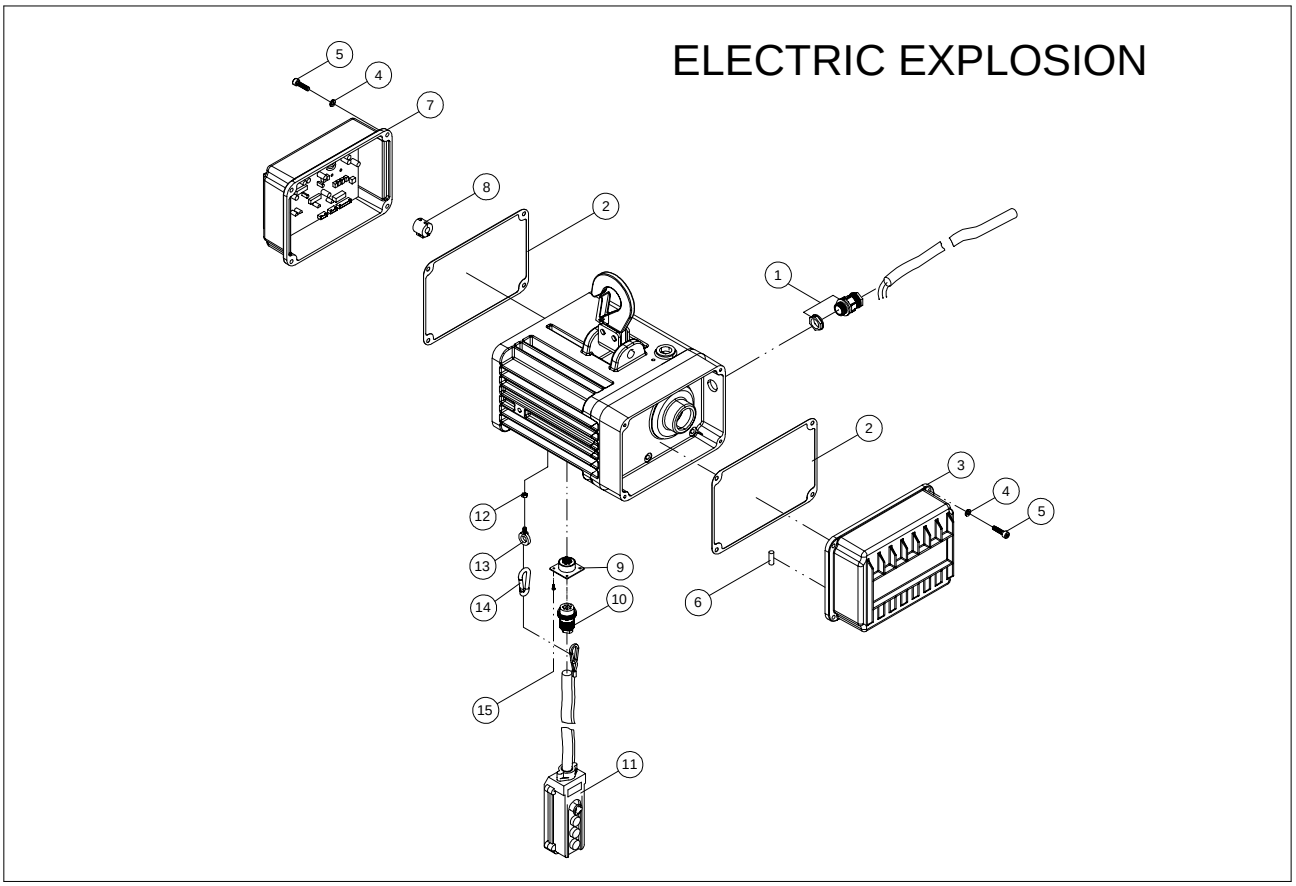
KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			PPH500
1	400943	Oil Seal <Ø25×Ø35×5t>	1
2	402586	Gasket #40	1
3	400615	Parallel Pin <Ø5×12>	2
4	208815N	Gearbox	1
5	400094	Spring Washer <M6>	6
6	400418	Hex. Recess Bolt <M6×1.0×30L>	6
7	208836	Cover	1
8	400661	Flat Washer<M4>	2
9	408394	Cross Headed Screw <M4×0.7×6L>	2
10	400110	Bearing <6202 ZZ>	1
11	208834	Load Sheave	1
12	405924	Key <t5×5×20L>	1
13	400962	Key <t6×6×12L>	1
14	201219	Sheave Spindle <Ø30×145L>	1
15	400934	Oil Seal <Ø30×Ø50×8t>	1
16	201321	Brake Body <Ø83×Ø20×17.5L>	1
17	208843	Ratchet Ass'y	1
18	405944	Key< t10×8×16L>	1
19	201327	Brake Bushing <Ø105×27.75L>	1
20	400289	Ball	3
21	201329	4th Gear Ass'y <M1.25×89T>	1
22	201323	Brake Flange <Ø87×19.1L>	1
23	200404	Disc Spring	4
24	200272	Load Brake Gear Spacer	2
25	206563	Bush < Ø34×12L>	1
26	400125	Bearing <6003>	1
27	200402	Oil Bush < Ø25×Ø17×9L>	1
28	400226	O-Ring <Ø12×Ø17×2.5>	1
29	200407	Flange Nut <M10×1.5×8L>	1
30	400089	Lock Nut <M10×1.5>	1
31	201200	Over Load Ass'y	1
32	200926	Hex. Oil Plug	1
33	200927	Air Plug	1
34	200416	Ratchet Pawl Pin< d14×26L >	2

PPH500 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			PPH500
35	408512	Ratchet Pawl Spring	2
36	200415	Ratchet Pawl	2
37	400907	Retaining Ring <S-11>	2
38	407845	Bearing <6000>	2
39	200417	2nd & 3rd Gear Set	1
40	408396	Hex. Recess Bolt <M5×0.8×10L>	1
41	400093	Spring Washer <M5>	1
42	208824	Chain Bucket Connector	1
43	400646	Lock Nut <M5>	2
44	208813	Chain Bucket <No.1>	1
45	408486	Hex. Recess Bolt <M5×0.8×70L>	2
46	208816	Chain Guide	1
47	400094	Spring Washer <M6>	2
48	400006	Hex. Recess Bolt <M6×1.0×16L>	2
49	200442	Buffer Steel Plate < Ø 25.5×Ø 14×t4>	4
50	408485	Spring	3
51	200445	Lock Pin <Ø10×25.5L>	1
52	200441	Chain Stopper <24×19×13.5>	1
53	400646	Lock Nut <M5>	1
54	408407	Threaded Stud <M4×0.7×4L>	1
55	407462	Parallel Pin < Ø5×25L>	1
56	208839	Load Bracket	1
57	400093	Spring Washer <M5>	4
58	405019	Hex. Recess Bolt <M5×0.8×15L>	4
59	408329	Hex. Recess Bolt <M5×0.8×20L>	3
60	202075L	Bottom Block Cover A	1
61	200361	Sprocket	1
62	408058	Needle Bearing <HK1412>	2
63	200322	Sprocket Axle	1
64	400295	Spring Pin <Ø3×10L>	1
65	202076L	Bottom Block Cover B	1
66	400646	Nylon Nut <M5>	3
67	200221	End Spacer	1
68	200212	Half Spacer	2

PPH500 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			PPH500
69	408057	Thrust Bearing <51103>	1
70	202077L	Bottom Hook	1
71	400300	Safety Latch Ass'y	2
72	300523	Oil plug <Philips Machine Screw Ass'y>	1
73	106109	Stator Ass'y	1
74	405641	Bearing<6201 2RS>	1
75	400945	Oil Seal <Ø12×Ø25×7t>	1
76	400863	Wave Washer <6201>	1
77	405569	Bearing <6201ZZ>	1
78	102523	Rotor <600W>	1
79	106111	Motor End Cover	1
80	400093	Spring Washer <M5>	4
81	400003	Hex. Recess Bolt <M5×0.8×16L>	4
82	208857	Collision Block	1
83	408588	Collision Block Spring	2
84	208818	Limit Switch Ass'y	1
85	400093	Spring Washer <M5>	2
86	400417	Hex. Recess Bolt <M5×0.8×20L>	2
87	208845L	Top Hook Ass'y	1
88	208840	Washer	2
89	208841	Lock Bolt <Ø15/M12×1.75x85L>	1
90	400084	Hex. Nut <M12×1.75>	1
91	400610	Cotter Pin <Ø3×30L>	1
92	228901L	Bottom Hook Ass'y	1
93	400512	Substitute Chain <Ø4.0×12>	1



ELECTRIC PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			90V~270V
1	400223	Cable Gland<M16>	1
2	402587	Gasket #41	2
3	302992L	PFC Power Supply Ass'y	1
4	400854	Spring Washer<M5>	8
5	408608	Hex. Recess Bolt <M5×0.8×16L>	8
6	301525	Fuse <5×20-15A>	1
7	302991L	DC Motor Controller Ass'y	1
8	301849	Magnetic Clip	1
9	300615	Female Receptacle	1
10	300616	Male Receptacle	1
11	312486	Push Button Switch	1
12	400087	Nut <M6x1.0>	1
13	404803	Eye Bolt < M6x1.0>	1
14	400841	Shackle	1
15	408601	Cross Headed Screw <M3×0.5×10L>	4

PACIFIC HOISTS

EC Declaration of Conformity CE

PACIFIC HOISTS PTY LTD.,
24 Foundry Rd., Seven Hills, NSW 2147, Australia.
Tel: +61 2 8825 6900 Fax: +61 2 8825 6999

According to the following EU Directives:

- Machinery Directive: 2006/42/EC
- Low Voltage Directive: 2006/95/EC

We, PACIFIC HOISTS PTY LTD.,
declare that the machines mentioned hereafter:

◎Product: Electric chain hoist

Model No: PPH080,PPH125,PPH240,PPH500

◎Product : Electric Motorized:
Model No:PPHT050

◎Functions:
Lifting equipment

They are designed and manufactured in compliance with the essential health and safety requirements of the Machinery Directive and Low Voltage Directive.
They are based on the following European harmonized standards:

- EN ISO 12100:2010, Safety of machinery - Basic concepts, general principles for design Part 1: Basic terminology, methodology.
- EN 14492-2:2019, Cranes - Power driven winches and hoists - Part 2: Power driven hoists.
- EN 60204-32:2008, Safety of machinery - Electrical equipment of machines - Part 32 Requirements for hoisting machines
- FEM 9.511 (Classification of mechanisms)
- FEM 9.681 (Selection of travel motors)
- FEM 9.682 (Selection of lifting motors)
- FEM 1.001 (Rules for the design of hoisting appliances)

Representative：STEVE PURVES

Title: DIRECTOR

Place / Date： Australia / NOV. 13, 2023.