

# ELECTRIC CHAIN HOIST

## OPERATION MANUAL & PARTS LIST



- MONTI-024
- MONTI-048



# **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 YOUR "PLANETA" ELECTRIC CHAIN HOIST.



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

Please study its contents thoroughly before putting the electric Chain 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.

## **1.FOREWORD**

Should you have any queries, please contact:



( Please ask for a company's stamp from your local agent)

## 2. MAIN SPECIFICATIONS

### 2.1 Specifications

The following specifications are common to all **PLANETA** electric chain hoists.

**Table 2-1 Specifications**

Item		Detail	
Working temperature range (°C)		-5 to +40	
Working humidity range (%)		85 or less	
Protection	Hoist	IP 54	
	Push button Switch	IP 65	
Electric power supply		Single phase	100V~120V 200V~260V 50/60 HZ
Noise level (dB)		81	
Series No.	WLL (working load limit) (kg)	Nominal diameter (mm)	Pitch (mm)
MONTI-024	240 kg	4.0	12
MONTI-048	480 kg	4.0	12

Remarks: (1) Contact an authorized dealer for information on using the hoist over the working temperature or humidity range.

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

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

## 2.2 Mechanical Classification (Grade) and Lift

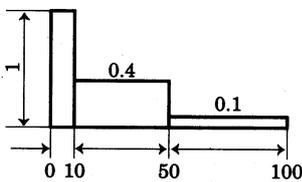
Safety and life for electric chain hoists are guaranteed only when the said equipment is operated in accordance with the prescribed grade.

**PLANETA** 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.

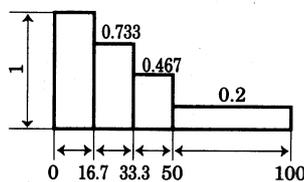
Average daily operating time and total operating time are determined by load distribution.

**Table 2-2 Mechanical classification**

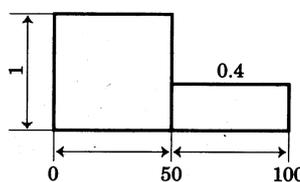
Load Spectrum (Load distribution)	Definitions	Cubic mean value	Average daily operating time(h)	Total operating time(h)
1 (light)	Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads.	$k \leq 0.50$	2 - 4	6300
2 (medium)	Mechanisms or parts thereof,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



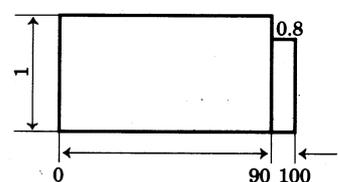
% operating time  
Load spectrum 1



% 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 or over lowering.

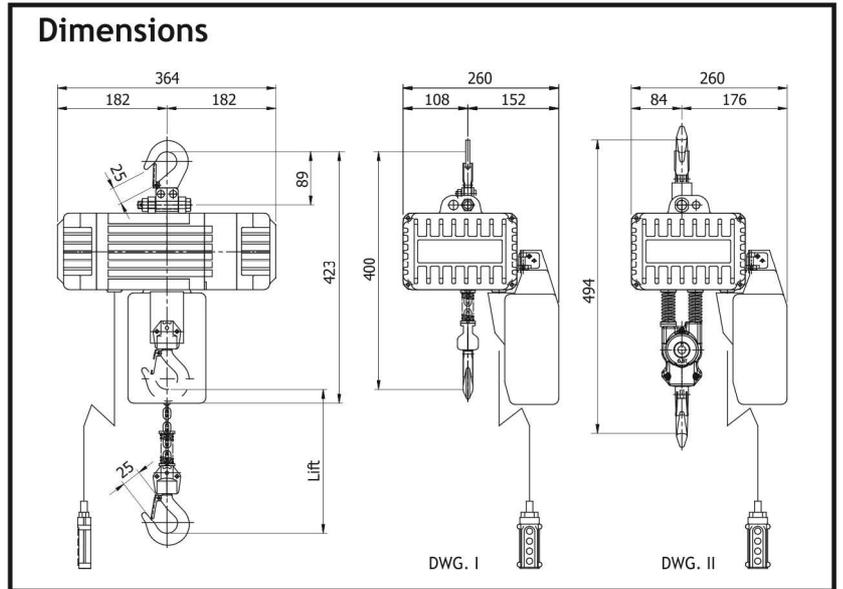
### **(4) Emergency stop device**

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



### Specifications:

Rated Power Source		Single Phase ( 110V ,220V ,115V ,230V ) ± 10% 60Hz/50Hz													
Model (Dual-Speed-Type)	DWG.	Rated Load (kg)	Motor Output (w)	Time Rating (min)	Intermittent Duty		Rated Current (A)	Lifting Speed (m/min)		Standard Lift (m)	Push Button Cord (m)	Load Chain Diameter (mm)	Fall No.	N.W./G.W. (kg)	
					ED%	Max. Starting Frequency (times/hr)		110V	220V					3m	6m
MONTI-024	I	240	600	15	30	180	10.0 (110V) 5.0 (220V)	0-3.2/11.2	0-3.2/12.5	3	3	4X12	1	16.5/ 19.5	17.5/ 20.6
MONTI-048	II	480	600	15	30	180	10.0 (110V) 5.0 (220V)	0-1.6/5.6	0-1.6/6.3	3	3	4X12	2	19.4/ 22.4	21.5/ 24.5

Packing ( L x W x H ) : 500 x 390 x 205 (mm)      ※ Maximum Push Button Cable Length 20m

### 3. SAFETY RULES

(1)

**⚠ DANGER**

**The hoist herein is not designed for, and should not be used for, lifting, supporting, or transporting personnel. Any modifications to upgrade, re-rate, or otherwise alter the hoist equipment must be authorized by either the original manufacturer or a qualified professional engineer.**

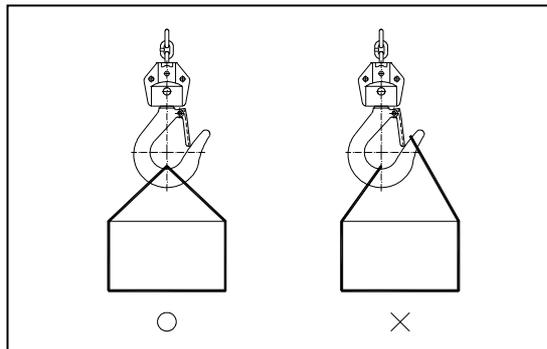
(2)

**⚠ DANGER**

**Do not use the hoist in explosive atmosphere.**

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

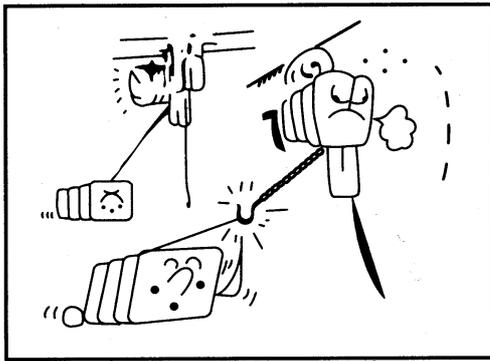
- (a) the correct lifting sling is being used.
- (b) the lifting sling is located in the hook as shown below (Illust. 2) and that a safety latch has been fitted.



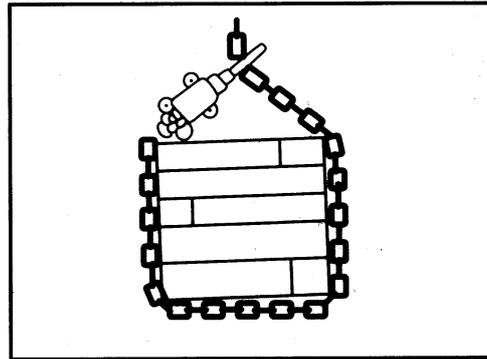
Illust. 2

- (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 push button switch cable and bottom hook vertically static after completion of operation, never leave them at any position which may cause 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



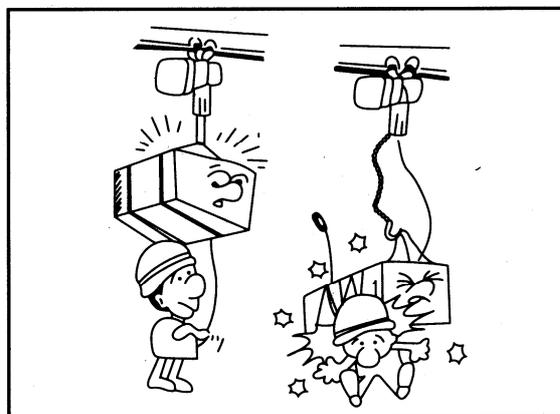
Illust. 4

(11)

**⚠ WARNING**  
**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) Bucket Specifications:

Bucket No.	Key No.	Bucket Size (mm)	Fall No.	Lift (m)	Chain (mm)	Material
BD1#	208813	90×130×185	1	3~6	φ 4.0	Polyethylene
			2	3		
BD2#	201386	120×160×230	1	7~12	φ 4.0	Polyethylene
			2	4~6		
BD3#	201606	130×170×260	1	13~18	φ 4.0	Canvas
			2	7~9		
BD4#	201607	130×170×310	1	19~24	φ 4.0	Canvas
			2	10~12		
BD5#	201608	130×170×390	1	25~30	φ 4.0	Canvas
			2	13~15		
BD6#	201609	130×170×470	1	31~36	φ 4.0	Canvas
			2	16~18		
BD7#	201610	130×170×550	1	37~42	φ 4.0	Canvas
			2	19~21		
BD8#	201611	130×170×645	1	43~50	φ 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	3 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

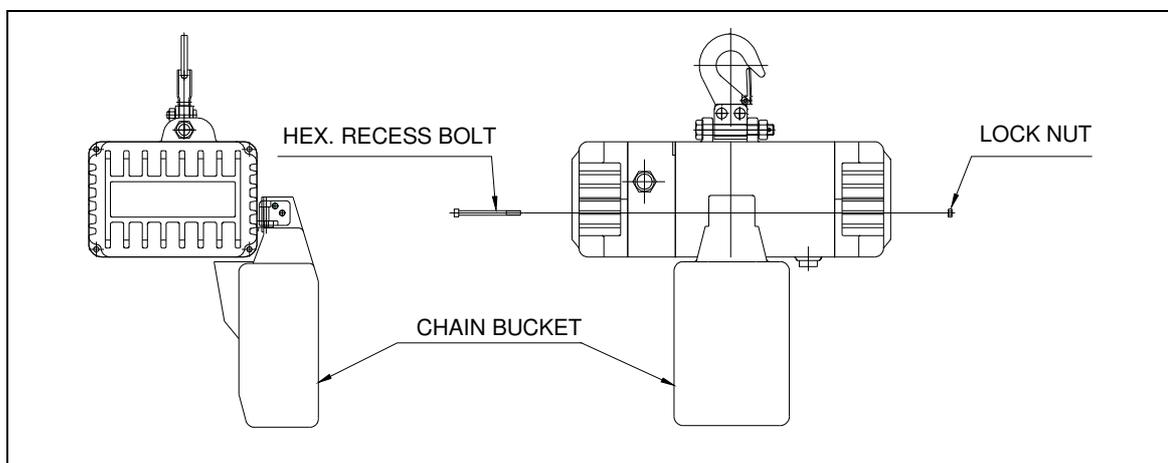
### **WARNING**

**Connection to power supply before installation procedures having been completed is strictly prohibited.**

(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.56, page.22).

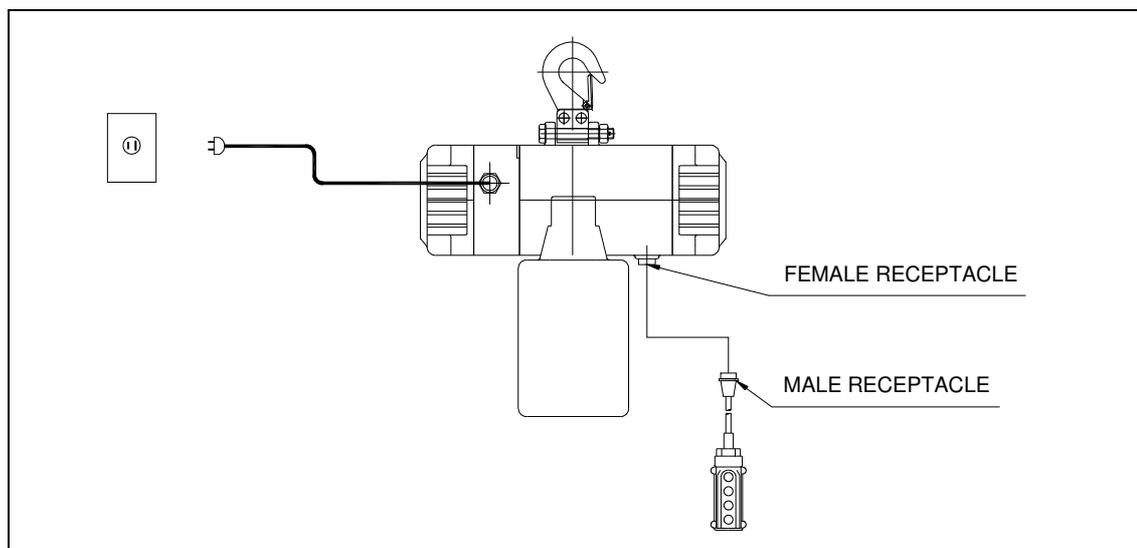
NOTE: If the hoist is to be installed under a trolley, remove the top hook and install the trolley on the hoist.

(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 "Emergency stop" (where fitted) 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.

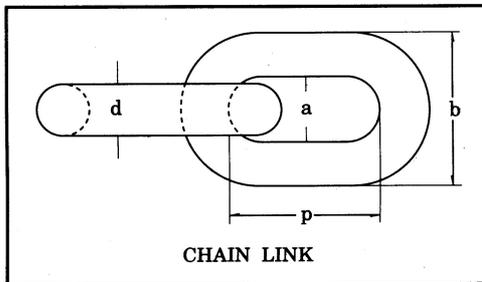
### **WARNING**

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

## (2) Monthly inspection

### (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) (a)	Outside Width (mm) (b)
4.0	12.0	5.0	14.0

## Chain Gauge – Wear and Stretch Measuring

- (1) The chain gauge is useful and convenience for measuring.
- (2) Please use a chain gauge to measure the chain pitch and diameter, such as 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 a partial part.
- (7) The load sheave, regulator, and chain compressing wheel must be replaced the same time as you do a second time replacement.

### Remark :

- (1) Chain must be perfect condition without any defects and attachments.

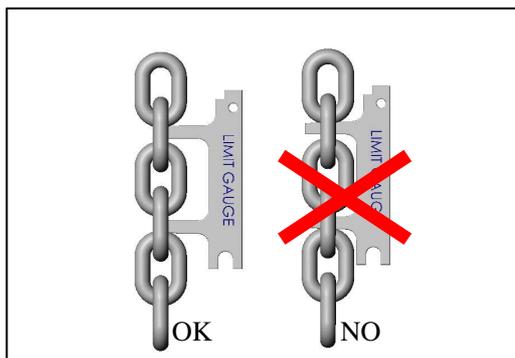


Illustration (1)  
Chain pitch measure

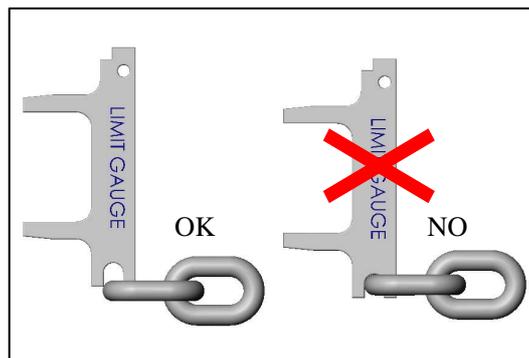
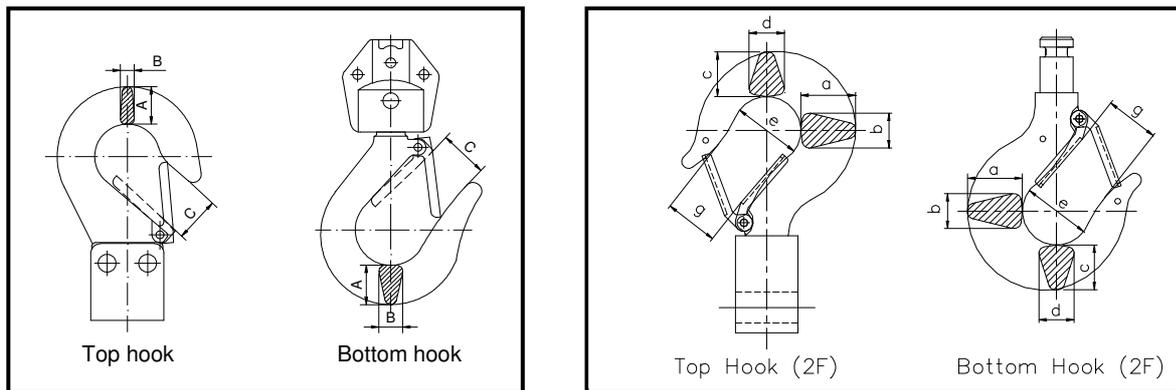


Illustration (2)  
Diameter measure

(b) Load chain:

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	g
1F	Top hook	19	7	23			
	Bottom hook	20	12	25			
2F	Top hook	28	18	23	18	35	25
	Bottom hook	28	18	23	18	35	25

(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 (**COMPACT SERIES / 500C.C**) as following table for your reference.

※ Table of recommended oils according to DIN 51354

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

The permissible tolerance for each VG category is ±10% of the tabulated values.

- (c) Check brake lining and ratchet pawl for any wear or damage.
- (d) Check operation of pawl spring.
- (e) 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) 100V~120V – 1Ph – 50/60Hz power supply (With Emergency Stop).....17
- (2) 200V~260V – 1Ph – 50/60Hz power supply (With Emergency Stop).....18

The above listed wiring diagram for reference only.

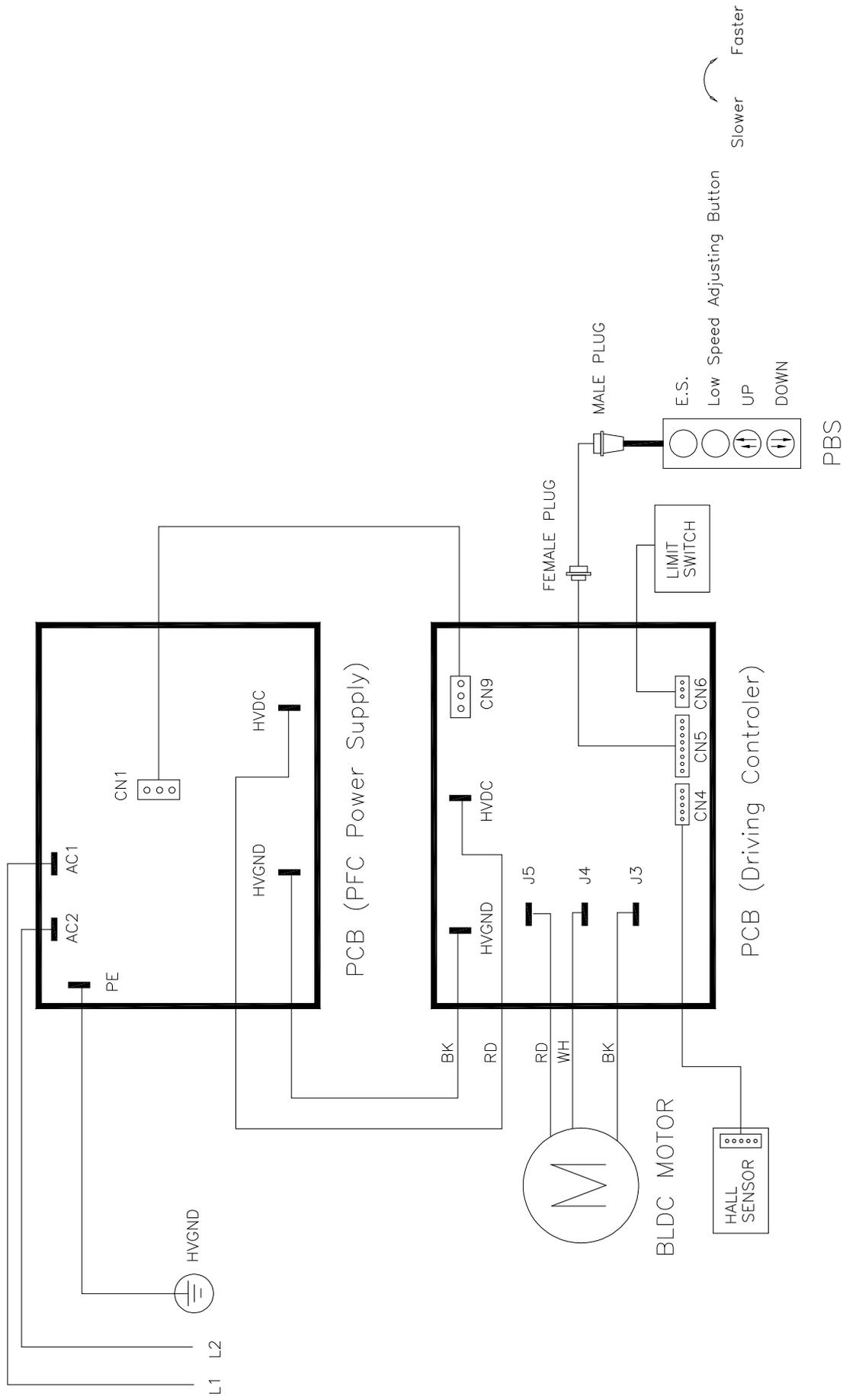
The end user should refer to the wiring diagram stuck to the inside cover of electric housing.

Our electric specifications can be done according to following.

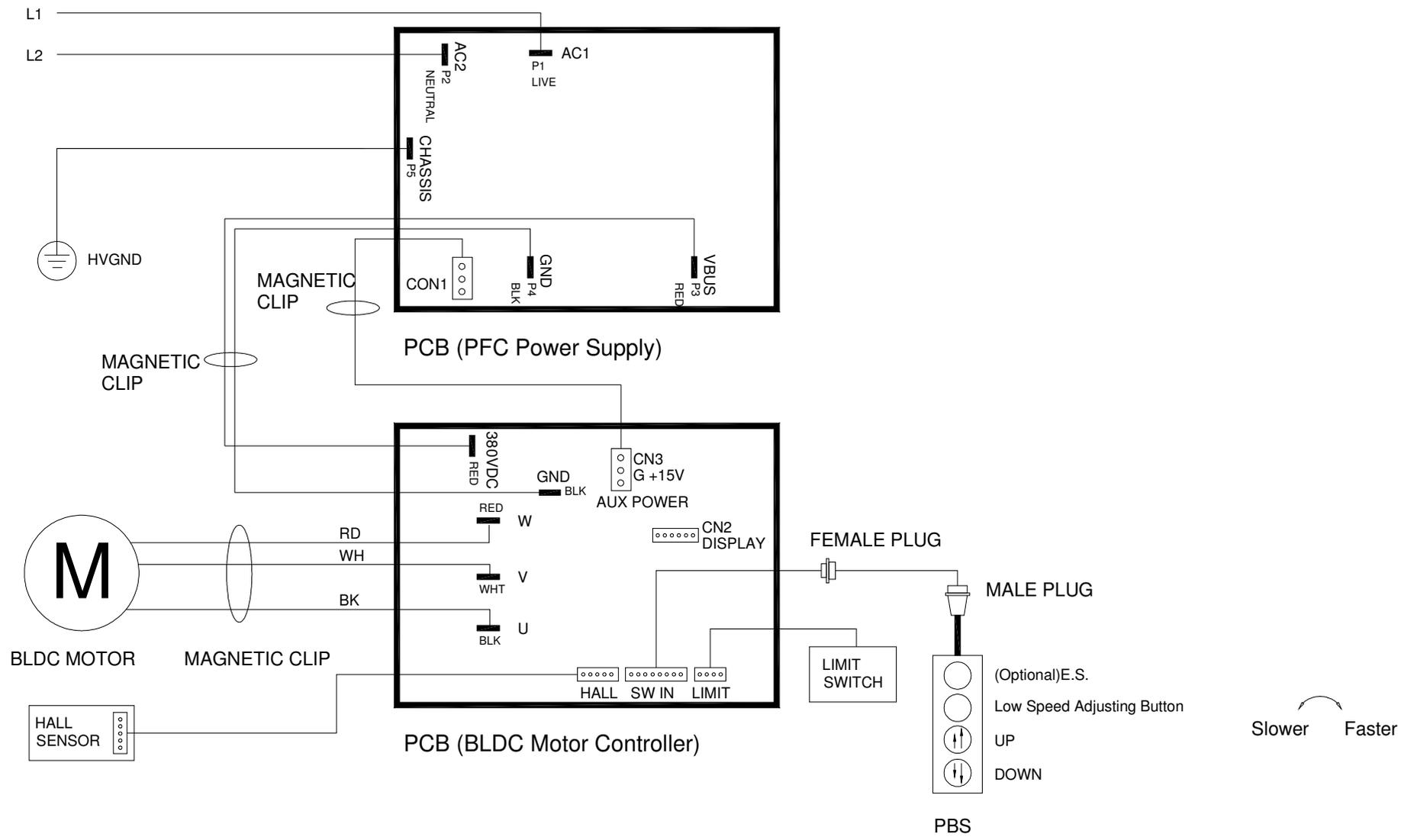
- (a) 1 – Phase
- (b) 50Hz or 60Hz
- (c) 100V~120V or 200V~260V

### 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 Cheng Day Machinery and Within One Year of damaged Mechanical Spare Parts Repair and Replacement.  
(circumstance stated in detail No. 2 are not included.)



ELECTRIC POWER SUPPLY	SINGLE PHASE, 100~120V, 50/60HZ
CONTROL VOLTAGE	DC 18V

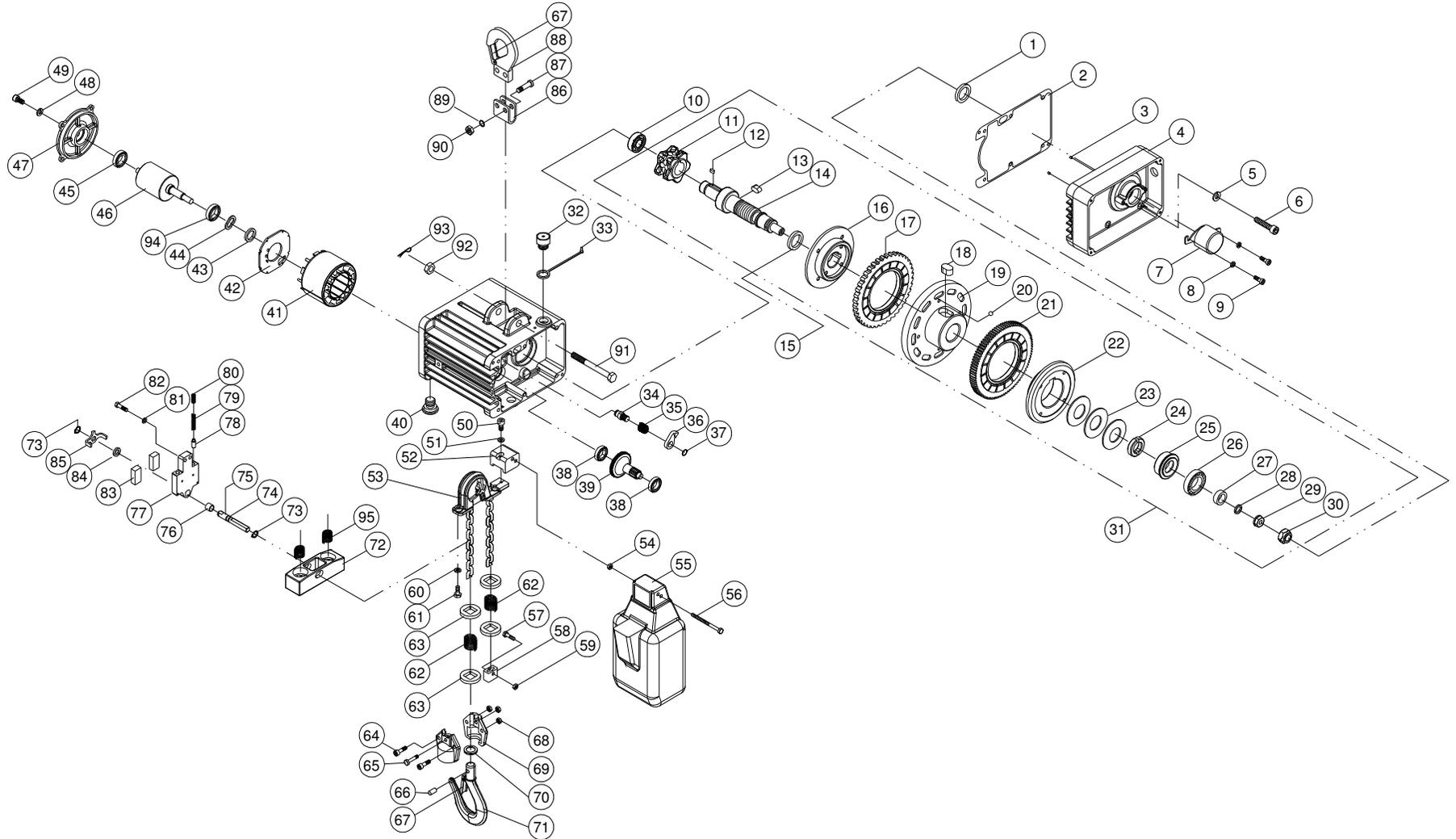


ELECTRIC POWER SUPPLY	SINGLE PHASE, 200~260V, 50/60Hz
CONTROL VOLTAGE	DC 18V

## 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 COMAPACT motor for correct Ref. Page 16 or 17
	(2) Blown power fuse or tripped power circuit breaker.	Check supply requirements and refuse/reset breaker to meet requirements Contact your authorized "PLANETA" 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
Hoist runs but does not lift	(1) Clutch slipping	Contact your authorized "PLANETA" dealer – this adjustment needs to be carried out on a test rig
Abnormal sound on load chain/chain sprocket	(1) Chain dry	Lubricate
	(2) Worn chain sprocket	Replace load chain and chain sprocket
Electric shock	(1) Poor earth connection	Provide correct earth connection
	(2) Accumulated foreign matter/ moisture on electrical parts	Remove foreign matter/dry electrical parts
Oil leak	(1) No oil plug	Attach the normal oil plug
	(2) Loose fitting of oil plug	Fasten the plug tightly
	(3) No plug packing	Attach normal packing
	(4) Worn or deteriorated oil packing	Attach the new packing

# MONTI-024 BODY EXPLOSION



## MONTI-024 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-024
1	400943	Oil Seal< ø 25×ø 35×5t>	1
2	402586	Gasket #40	1
3	400615	Parallel Pin< ø 5×12L>	2
4	208815	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< ø 30×ø 50×8t>	1
16	201321	Brake Body< ø 83×ø 20×17.5L>	1
17	208843	Ratchet Ass'y	1
18	405944	Key< t10×8×16L>	1
19	201327	Brake Bushing< ø 105×27.75L>	1
20	400289	Ball	3
21	201329	4th Gear Ass'y<M1.25×89T>	1
22	201323	Brake Flange< ø 87×19.1L>	1
23	200404	Disc Spring	3
24	200272	Load Brake Gear Spacer	2
25	201325	Bush< ø 34×10L>	1
26	400125	Bearing<6003>	1
27	200402	Oil Bush< ø 25×ø 17×9L>	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

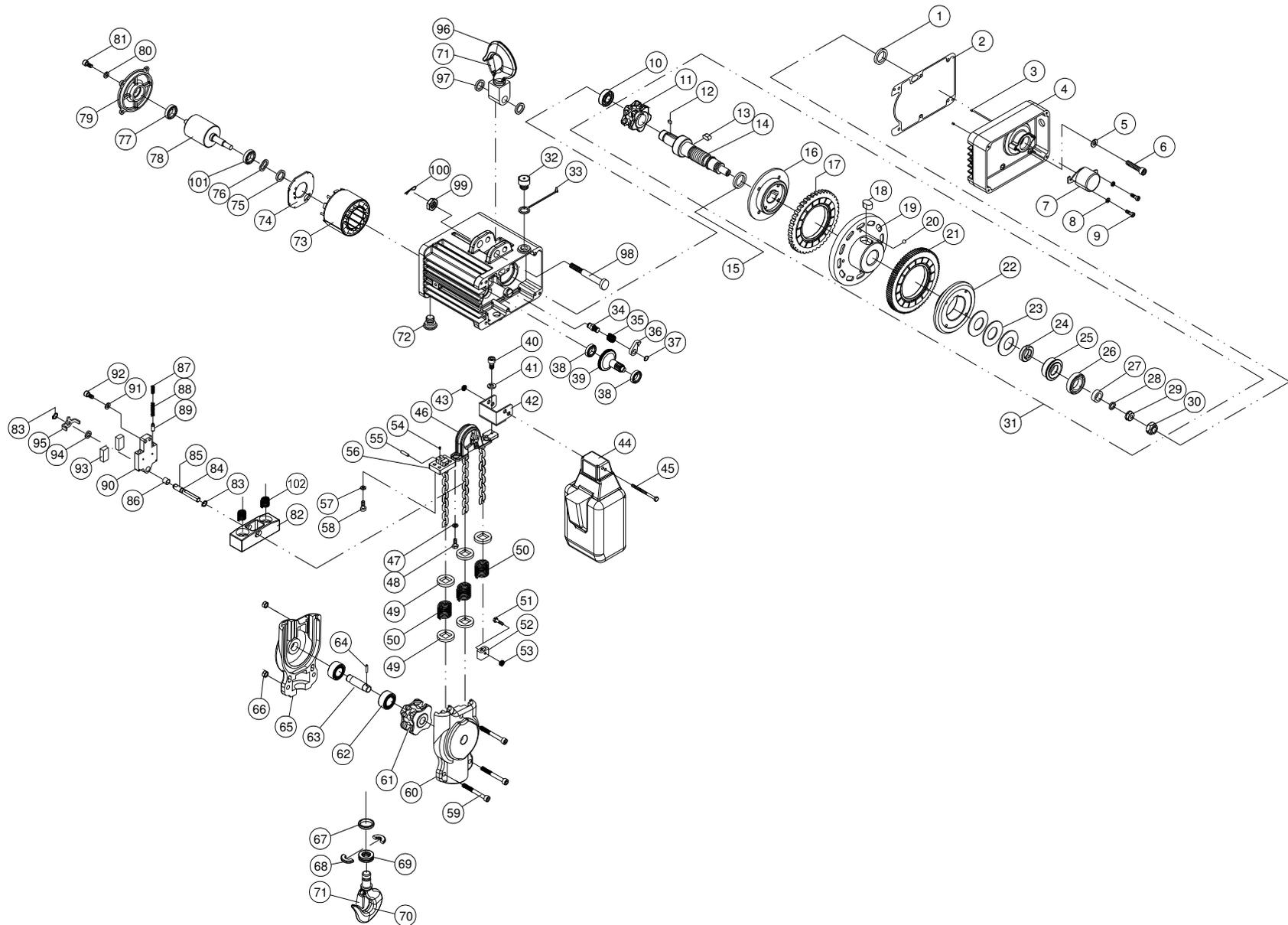
## MONTI-024 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-024
33	200927	Air Plug	1
34	200416	Ratchet Pawl Pin< d14×26L>	2
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	300523	Oil plug <Philips Machine Screw Ass'y>	1
41	106109	Stator Ass'y <600W>	1
42	106118	Hall Sensor Plate	1
43	400945	Oil Seal< ø 12×ø 25×7t>	1
44	400863	Wave Washer<6201>	1
45	405569	Bearing<6201ZZ>	1
46	106108	Rotor<600W>	1
47	106111	Motor End Cover	1
48	400093	Spring Washer<M5>	4
49	400003	Hex. Recess Bolt<M5×0.8×16L>	4
50	408396	Hex. Recess Bolt<M5×0.8×10L>	1
51	400093	Spring Washer<M5>	1
52	208824	Chain Bucket Connector	1
53	208816	Chain Guide	1
54	400646	Lock Nut<M5>	2
55	208813	Chain Bucket<No.1>	1
56	408486	Hex. Recess Bolt<M5×0.8×70L>	2
57	200445	Lock Pin< ø10×25.5L>	1
58	200441	Chain Stopper<24×19×13.5>	1
59	400646	Lock Nut<M5>	1
60	400094	Spring Washer<M6>	2
61	400006	Hex. Recess Bolt<M6×1.0×16L>	2
62	408485	Spring	2
63	200442	Buffer Steel Plate <t4×25.5>	4
64	408329	Hex. Recess Bolt<M5×0.8×20L>	2
65	200445	Lock Pin< ø10×25.5L>	1

## MONTI-024 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-024
66	407463	Parallel Pin< $\varnothing$ 8×25L>	1
67	200480	Safe Latch Ass'y	2
68	400646	Lock Nut<M5>	3
69	201371I	Bottom Hook Cover Set	2
70	400830	Thrust Bearing	1
71	201372I	Bottom Hook	1
72	208857	Collision Block	1
73	400188	Retaining Ring <S-10>	2
74	404416	O-Ring< $\varnothing$ 8× $\varnothing$ 10.8×1.5>	1
75	208822	Limit Control Shaft	1
76	405571	Lubricated Bearing	1
77	208819	Limit End Plate	1
78	208820	Compressing Block	2
79	408510	Limit Spring	2
80	400587	Threaded Stud<M8×1.25×10L>	2
81	400093	Spring Washer<M5>	2
82	400417	Hex. Recess Bolt<M5×0.8×20L>	2
83	300577	Limit Switch	2
84	208823	Limit Washer	1
85	208821	Limit Pawl	1
86	200432	Top Hook Suspension<t20×37×39L>	1
87	200433	Top Hook lock bolt< $\varnothing$ 12×29.5L>	2
88	200456	Top Hook	1
89	400095	Spring Washer<M8>	2
90	400088	Lock Nut<M8×1.25>	2
91	208827	Lock Bolt< $\varnothing$ 12/M12x1.75x85L>	1
92	400084	Hex. Nut<M12×1.75>	1
93	400610	Cotter Pin< $\varnothing$ 3×30L>	1
94	405641	Bearing<6201 2RS>	1
95	408588	Collision Block Spring	2

# MONTI-048 BODY EXPLOSION



## MONTI-048 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-048
1	400943	Oil Seal< ø 25×ø 35×5t>	1
2	402586	Gasket #40	1
3	400615	Parallel Pin< ø 5×12>	2
4	208815	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< ø 30×ø 50×8t>	1
16	201321	Brake Body< ø 83×ø 20×17.5L>	1
17	208843	Ratchet Ass'y	1
18	405944	Key< t10×8×16L>	1
19	201327	Brake Bushing< ø 105×27.75L>	1
20	400289	Ball	3
21	201329	4th Gear Ass'y<M1.25×89T>	1
22	201323	Brake Flange< ø 87×19.1L>	1
23	200404	Disc Spring	3
24	200272	Load Brake Gear Spacer	2
25	201325	Bush< ø 34×10L>	1
26	400125	Bearing<6003>	1
27	200402	Oil Bush< ø 25×ø 17×9L>	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

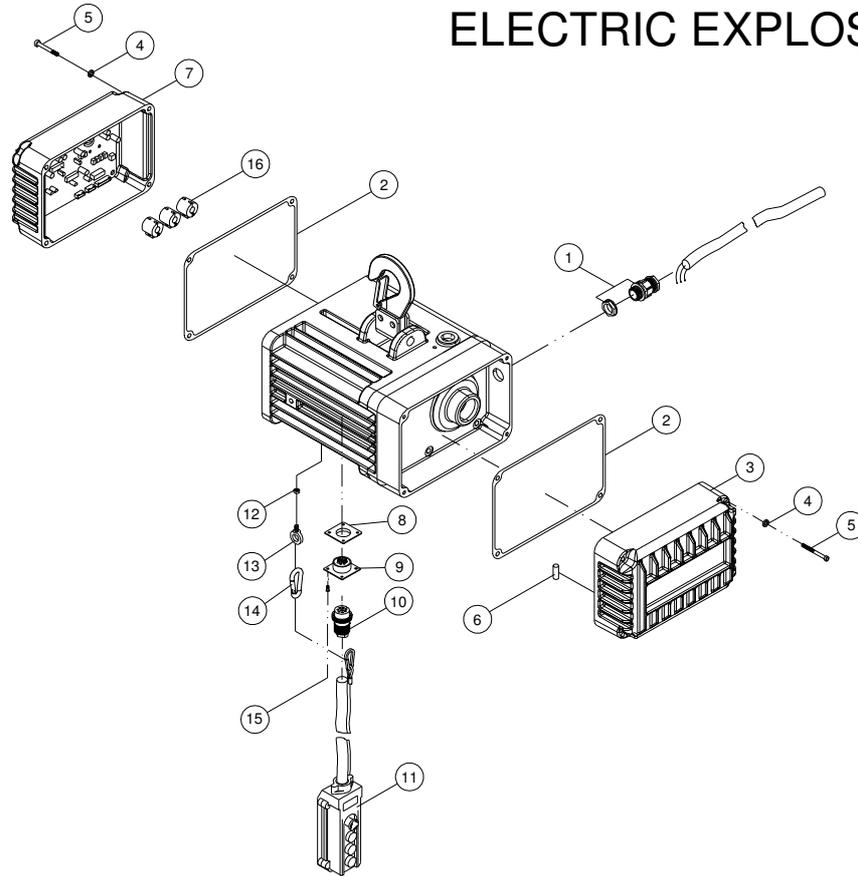
## MONTI-048 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-048
34	200416	Ratchet Pawl Pin< d14×26L >	2
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	-
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 <t4×25.5>	6
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	207069	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	207071	Bottom Block Cover B	1
66	400646	Nylon Nut<M5>	3
67	200221	End Spacer	1
68	200212	Half Spacer	2

## MONTI-048 BODY PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			MONTI-048
69	408057	Thrust Bearing <51103>	1
70	200367	Bottom Hook Ass'y	1
71	400300	Safety Latch Ass'y	2
72	300523	Oil plug <Philips Machine Screw Ass'y>	1
73	106109	Stator Ass'y <600W>	1
74	106118	Hall Sensor Plate	1
75	400945	Oil Seal< $\phi$ 12 $\times$ $\phi$ 25 $\times$ 7t>	1
76	400863	Wave Washer<6201>	1
77	405569	Bearing<6201ZZ>	1
78	106108	Rotor<600W>	1
79	106111	Motor End Cover	1
80	400093	Spring Washer<M5>	4
81	400003	Hex. Recess Bolt<M5 $\times$ 0.8 $\times$ 16L>	4
82	208857	Collision Block	1
83	400188	Retaining Ring <S-10>	2
84	404416	O-Ring< $\phi$ 8 $\times$ $\phi$ 10.8 $\times$ 1.5>	1
85	208822	Limit Control Shaft	1
86	405571	Lubricated Bearing	1
87	400587	Threaded Stud<M8 $\times$ 1.25 $\times$ 10L>	2
88	408510	Limit Spring	2
89	208820	Compressing Block	2
90	208819	Limit End Plate	1
91	400093	Spring Washer<M5>	2
92	400417	Hex. Recess Bolt<M5 $\times$ 0.8 $\times$ 20L>	2
93	300577	Limit Switch	2
94	208823	Limit Washer	1
95	208821	Limit Pawl	1
96	208845	Top Hook Ass'y	1
97	208840	Washer	2
98	208841	Lock Bolt< $\phi$ 15/M12 $\times$ 1.75 $\times$ 85L>	1
99	400084	Hex. Nut<M12 $\times$ 1.75>	1
100	400610	Cotter Pin< $\phi$ 3 $\times$ 30L>	1
101	405641	Bearing<6201 2RS>	1
102	408588	Collision Block Spring	2

# ELECTRIC EXPLOSION



## ELECTRIC PARTS B.O.M.

KEY NO.	PARTS CODE	DESCRIPTION	Q'TY REQ'D EACH UNIT
			90V~240V
1	400223	Cable Gland<M16>	1
2	402587	Gasket #41	2
3	302277	PFC Power Supply Ass'y	1
4	400854	Spring Washer<M5>	8
5	408331	Hex. Recess Bolt<M5×0.8×50L>	8
6	302283	Fuse <6×30-20A>	1
7	302279	DC Motor Controller Ass'y	1
8	402588	Gasket #42	1
9	300615	Female Receptacle	1
10	300616	Male Receptacle	1
11	300610	Push Button Switch	1
12	400087	Nut <M6×1.0>	1
13	404803	Eye Bolt < M6×1.0>	1
14	400841	Shackle	1
15	408601	Cross Headed Screw <M3×0.5×10L>	4
16	301849	Magnetic Clip	3



## EC DECLARATION OF CONFORMITY

Declaration for machinery according to EU directives 2006/42/EC, Annex II A, 2014/30/EU, Annex I and 2014/35/EU, Annex III

We,

**PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne**

hereby declare that the following machinery



**electric chain hoist, series  
payload range**

**MONTI  
240-480 kg**

developed for lifting and lowering loads, is, in standard production and from the 2005 model year, inclusive of load control, meets the essential requirements of the following EC directives, as applicable to the scope of the delivery:

EC Machinery Directive	2006/42/EC
EC Directive on Electromagnetic Compatibility	2014/30/EU
EC Low Voltage Directive	2014/35/EU

### Harmonized standards applied:

ISO 2374	Lifting appliances; Range of maximum capacities for basic models
DIN EN 818-7	Short link chain for lifting purposes; Part 7: Grade T
DIN EN ISO 13849-1	Safety-related parts of control systems; Part 1: General principles for design
DIN EN 14492-2	Cranes, power driven winches and hoists; Part 2: Power driven hoists
DIN EN 60204-32	Electrical equipment of machines; Part 32: Requirements for hoisting machines

### Standards and technical specifications applied:

FEM 9.751	Power driven series hoist mechanisms; Safety
FEM 9.755	Measure for achieving safe working periods

### Authorized to compile relevant technical documentation:

Dipl.-Ing. Matthias B. Klawitter, PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne.

Herne, 26.04.2016

**PLANETA-Hebetechnik GmbH**

Dipl.-Ök. Christian P. Klawitter  
Director

The completion, installation and start-up as per instruction manual is documented in the log book.

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