

SAN YUAN

SINCE 1982 MATERIAL HANDLING

Professional Design & Manufacturer

SAN YUAN ELECTRIC HOIST

CF & CFC

TYPE PARTS LIST

MAINTENANCE AND OPERATIONAL INSTRUCTIONS

Thank you for your wise choice of our distinguished electric hoist.
For your better understanding of the performance of this model,
Operational safety and inspection, please read carefully and keep this
manual in a safe place.

SAN YUAN CHAIN HOIST CORP.

www.TaiwanHoist.com

Thank you for your wise choice of our distinguished electric hoist.

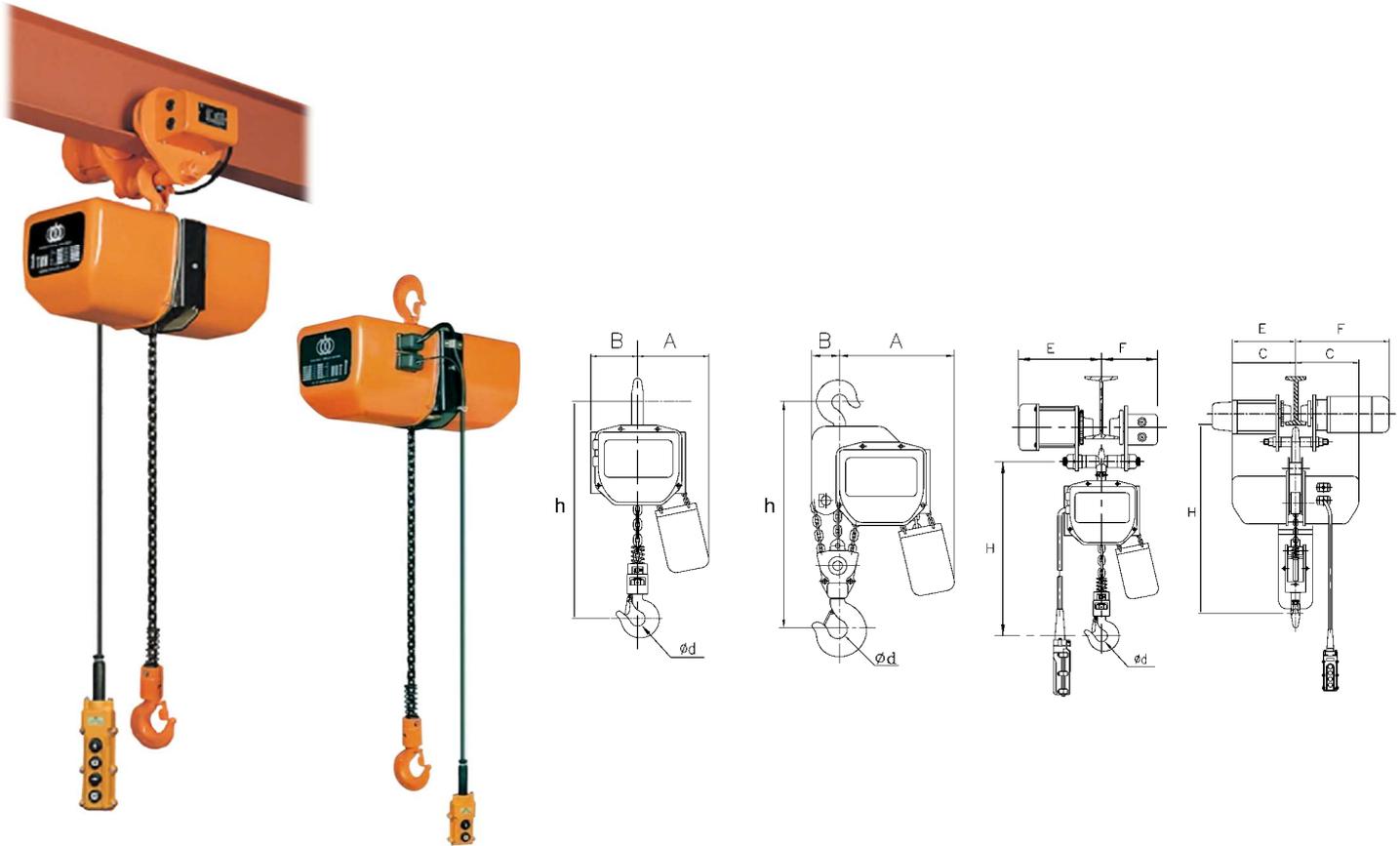
For your better understanding of the performance of this model,

Operational safety and inspection, please read carefully and keep this manual in a safe place.

CONTENTS

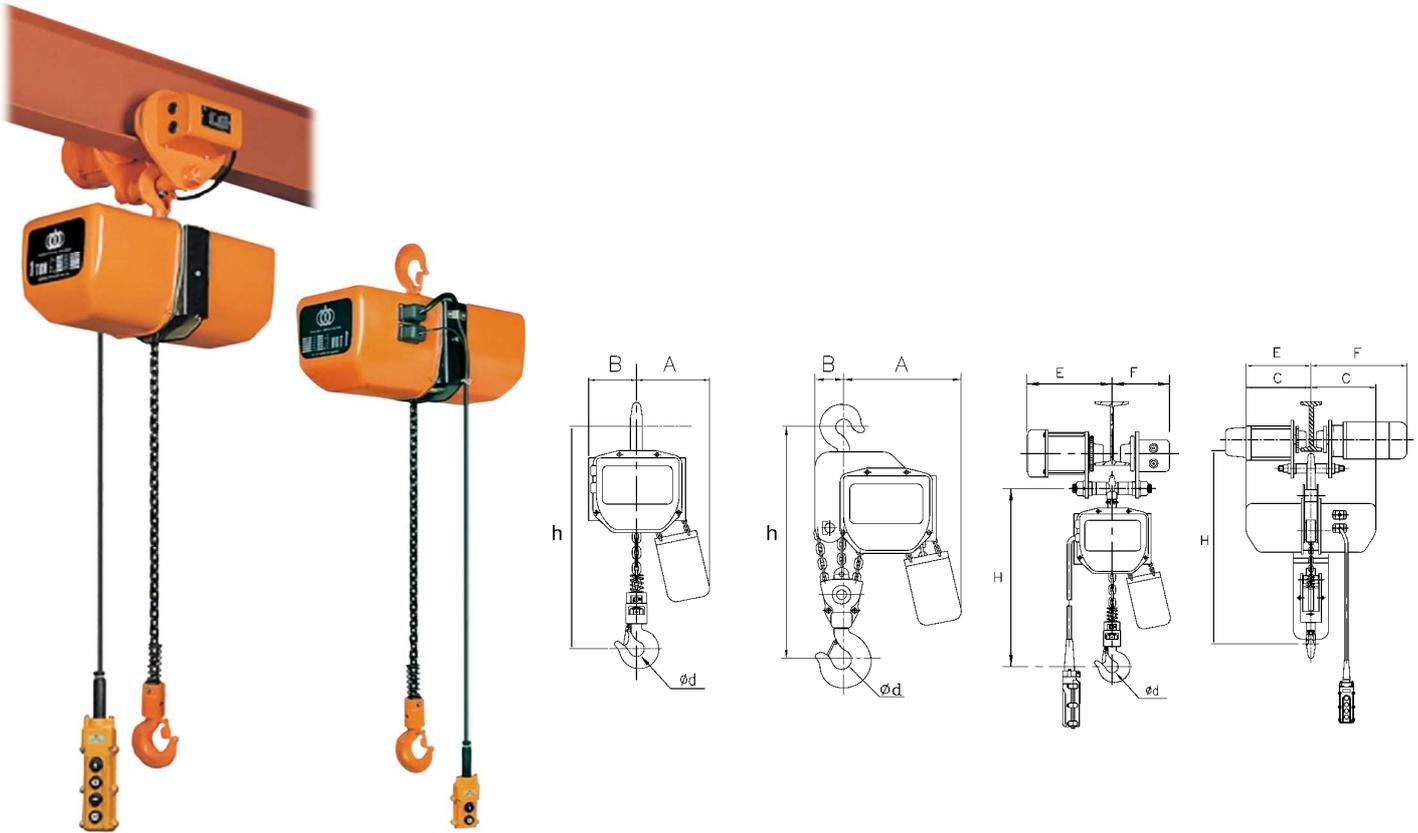
Section	Page
Index	1
CF Specifications	2
CFC Specifications	3
Cautions in Operation	4 ~ 6
Item Inspection and Maintenance	7
Wiring Diagram	8
Chain Hoist Structure	9
Explosion Chart	10 ~ 12
Chain Hoist Part List	13 ~ 15
Cautions For The Use Of Motor Trolleys	16
Motor Trolley Structure	17
Motor Trolley Part List	18 ~ 19
Regular Inspection	20
Checklist List for Periodic Inspection	21
Malfunctions and Solutions	22

CF Standard (Single Speed)



Type	Hoist Only	1CF	2CF	3CF	5CF
	Hoist + Trolley	1CF-MT	2CF-MT	3CF-MT	5CF-MT
Rated Capacity (Ton)		1	2	3	5
Hoist Speed (M/min)	50Hz	7	3.5	2.3	1.4
	60Hz	8.4	4.2	2.8	1.7
Hoist Motor (Kw)	50Hz	1.3			
	60Hz	1.6			
Trolley Speed (M/min)	50Hz	15	15	15	15
	60Hz	18	18	18	18
Chain Dia X No. Of Falls		Φ7.1 X 1	Φ7.1 X 2	Φ7.1 X 3	Φ7.1 X 5
Min. Rad. Curvature (m)		1.3	1.5	1.8	1.8
I Beam (mm)		75 ~ 125	100~150		125~175
Approximate Dimensions (mm)	A/B	200/170	200/170	250/300	300/360
	C	263	263	263	263
	Ød	40	45	55	65
	H/h	613/560	720/665	880/820	986/925
	E/F	277/180	335/225	335/227	375/238
N.W. (Kg)	Hoist	53 (58)	60 (70)	71 (85)	95 (120)
	Hoist + Trolley	78 (83)	90 (100)	125 (140)	165 (190)

CFC Standard (Two Speed)



Type	Hoist Only	1CFC	2CFC	3CFC	5CFC
	Hoist + Trolley	1CFC-MTC	2CFC-MTC	3CFC-MTC	5CFC-MTC
Rated Capacity (Ton)		1	2	3	5
Hoist Speed (M/min)	50Hz	5.5/1.8	2.7/0.9	1.8/0.6	1.1/0.36
	60Hz	6.6/2.2	3.3/1.1	2.2/0.7	1.3/0.4
Hoist Motor (Kw)	50Hz	1.3/0.45			
	60Hz	1.6/0.55			
Trolley Speed (M/min)	50Hz	20/6.6	18/6		17/5.6
	60Hz	24/8	22/7.3		20/6.6
Chain Dia X No. Of Falls		Φ7.1 X 1	Φ7.1 X 2	Φ7.1 X 3	Φ7.1 X 5
Min. Rad. Curvature (m)		1.3	1.5	1.8	1.8
I Beam (mm)		75 ~ 125	100~150		125~175
Approx. Dimensions (mm)	A/B	200/170	200/170	250/300	300/360
	C	263	263	263	263
	Ød	40	45	55	65
	H/h	613/560	720/665	880/820	986/925
	E/F	277/180	335/225	335/227	375/238
N.W. (Kg)	Hoist Only	55(60)	62(72)	73(87)	97(122)
	Hoist + Trolley	83(88)	95(105)	130(145)	170(195)

★ NOTE: (H) IN QUOTES MEANS LIFT MEASURE.

CAUTIONS IN OPERATION AND MAINTENANCE

An electric hoist has been used as a safe and convenient machine to save time and labor in operation. Before use, however, careful attention must be paid to operational safety and inspection procedures. Therefore, before operating this electric hoist, please read the following instructions and follow correct operational methods. Otherwise, it will not perform properly as is expected.

(A)

Before the installation, please ensure the delivery to have the exact specifications as you had purchased. This machine has been subjected to strict inspection before delivery ex-work. In case of any trouble caused during the handling process, please contact your local distributor or service station. We shall provide best services to meet your satisfaction.

(B) Items to be inspected before operation :

1. Mount the hoist in position. Make sure to secure the power cords and control cables, so as to avoid poor electrical connection.
2. For the wiring system, this machine must be grounded (green wire) to avoid slight leakage caused by static charge.
3. Depress the button switch when the machine runs in idle and check if the UP (↑) and DOWN (↓) operation is consistent with the switch indication.
4. The surface of chain (Wire ROPE) must be kept clean and oiled, to avoid the chain (Wire ROPE) from interwinding.
5. To store the chain, lower the chain to the lower limit, mount the chain bag onto the hoist, then, put the chain into the chain container.
6. Check the correct operation of the limit switch for upper and lower limits and brake stop device.

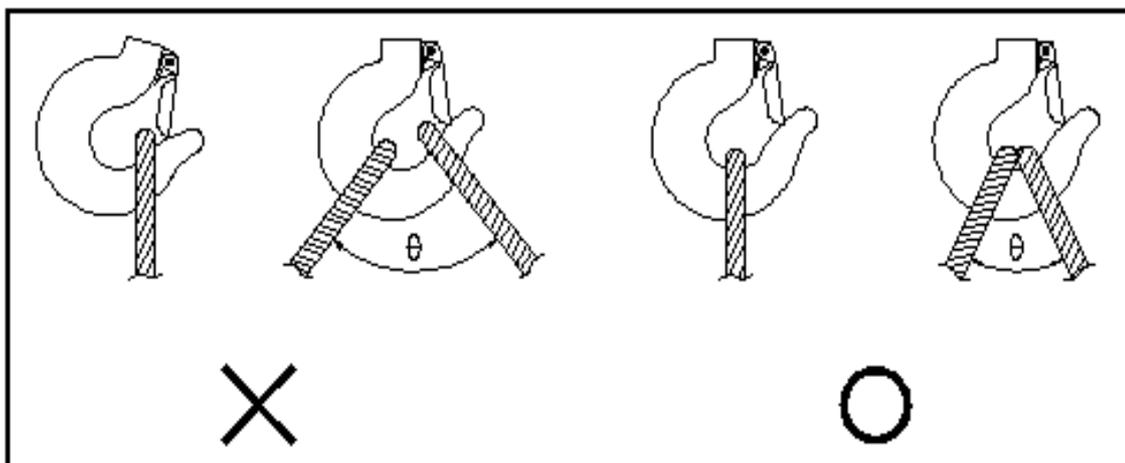
(C) CAUTIONS FOR THE USE OF ELECTRICAL HOIST

1. For the sake of safety, do not apply a load in excess of the rated load.
2. Ensure if the load is tightly fastened?
3. Before applying the load, the chain (Wire ROPE) must be straightened to buffer the impact.
4. The center of gravity of the load should be hoisted. Never operate unbalanced hoisting. For inclined hoisting by the electric hoist, the inclination should be kept within 15°.

(If possible, try to avoid inclined hoisting.)
5. During the hoisting of load, allow no person to stay below or nearby the load, to avoid any injury.
6. To move the electric hoist with a load, do not pull the control cable in a transverse direction, so as to avoid the electric cable from being broken.
7. Make sure to depress the switch to the full limit. NEVER operate abrupt positive then reverse rotation or inch movement.
8. During hoisting, try to keep the hook from reaching the upper and lower limits, so to minimize the wear of the Clutch lining.
9. A stop device must be fitted when the transverse pulley reaches the terminal of I-beam, so to avoid the hoist from damage or slipping off he end.
10. For outdoor use of electric hoist, keep the hoist from direct sunshine, rain and wind. There should be a proper shelter (such as rain resistant hood, etc.)
11. There is a stop button on the lower hook to prevent the steel cable from escaping. Therefore, make sure the cable is in the correct position on the lower hook and keep the safety angle within 60°. (See diagram)

(D) Routine and regular inspection items of electrical hoist :

To ensure the proper performance of this machine and extend its service life, please make the following routine checks.



D-1 Routine inspection items:

1. Depress the button switch and let the hoist run idle, check if the upward and downward operation are normal?
2. Is the hoist operation smooth? Is there abnormal noise when it is with load?
3. Check if the chain is oiled or damaged?
4. Is the brake operation normal when the winding is stopped?
5. Is the lower hook easily rotating?

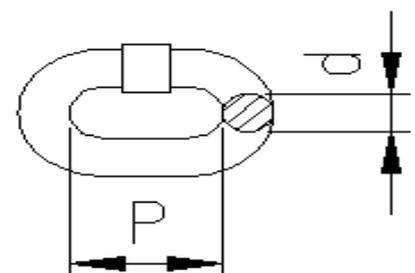
D-2 Regular inspection items:

1. Inspection of LINK chain

LINK chain is the most important part of the electrical chain hoist, which is made of special alloy steel with heat treatment. The purpose is to withstand wear and tension. In case the surface is dried and rusted, it will cause interwoven chains which may break. Therefore, the surface must be oiled frequently (use normal lubricating oil). In case the chain is deformed, cracked, elongated, worn, in excess of the following standards, new parts must be replaced:

2. Inspection of gear:
 - a. Regular replacement of lubricating oil in the gearbox.
 - b. Check if the gear surface is cracked or worn.
3. Inspection of hook:
 - a. In case of abnormal deformation, damage or breakage at the opening of the hook, it must be replaced with new.
 - b. In case the wear extent of the hook is in excess of 10%, it must be replaced with a new part.
4. Inspection of pushbutton switch:
 - a. Are the inner and outer screws of the pushbutton switch loosened? Is the electric wire damaged?
 - b. Is there foreign substance between the contact points? Are the contact points abnormally worn?
5. Inspection of main unit:
 - a. Is the wiring system in the main unit secured? Is the electric wire aged or damaged?
 - b. Are the inner or outer screws of the main unit loosened?
 - c. Is the panel or casing of the main unit deformed?

CHAIN WEAR LIMITS: MEASUREMENT/DIAMETER		6.3Φ	7.1Φ
Original measurement	d mm	6.3Φ	7.1Φ
Critical measurement		5.7Φ	6.4Φ
Original measurement	p mm	19.1	20.2
Critical measurement		20	21



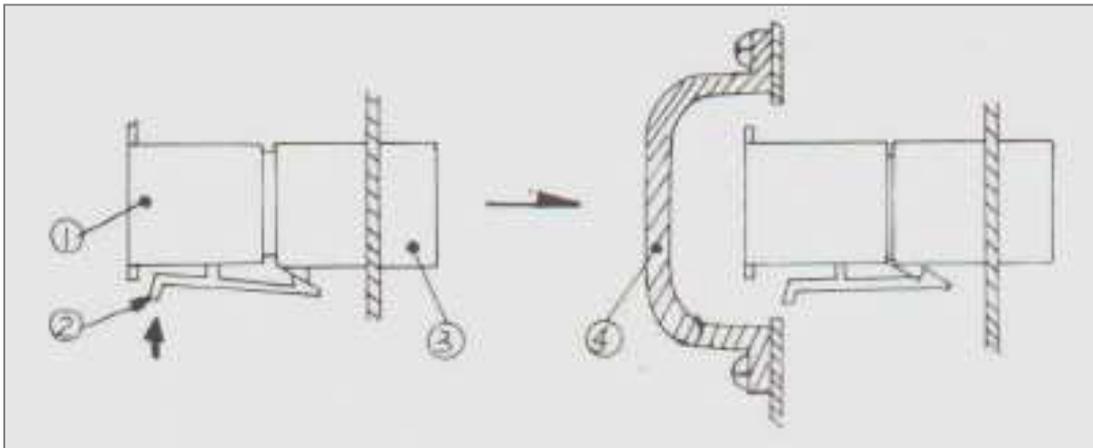
CAUTIONS FOR THE USE OF ELECTRICAL HOIST

Our electrical hoist is a heavy-duty motor hoist with high frequency.

To operate, please follow the points below:

(1) Tightening of cable sockets:

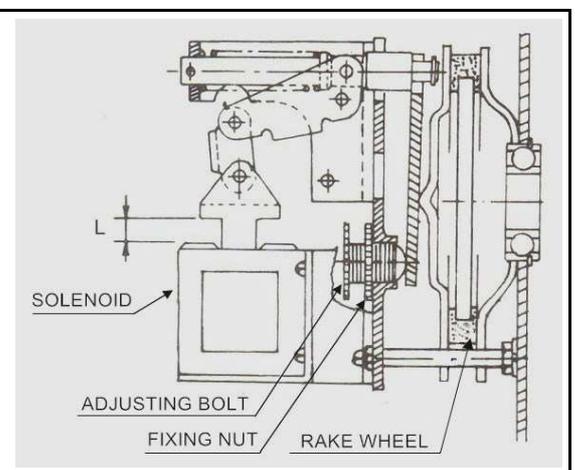
Take off the screws on the casing of main unit, depress the socket (1) to (2) position, correctly plug it into the inner seat (3) of main unit, then tighten the screw and socket cover (4).



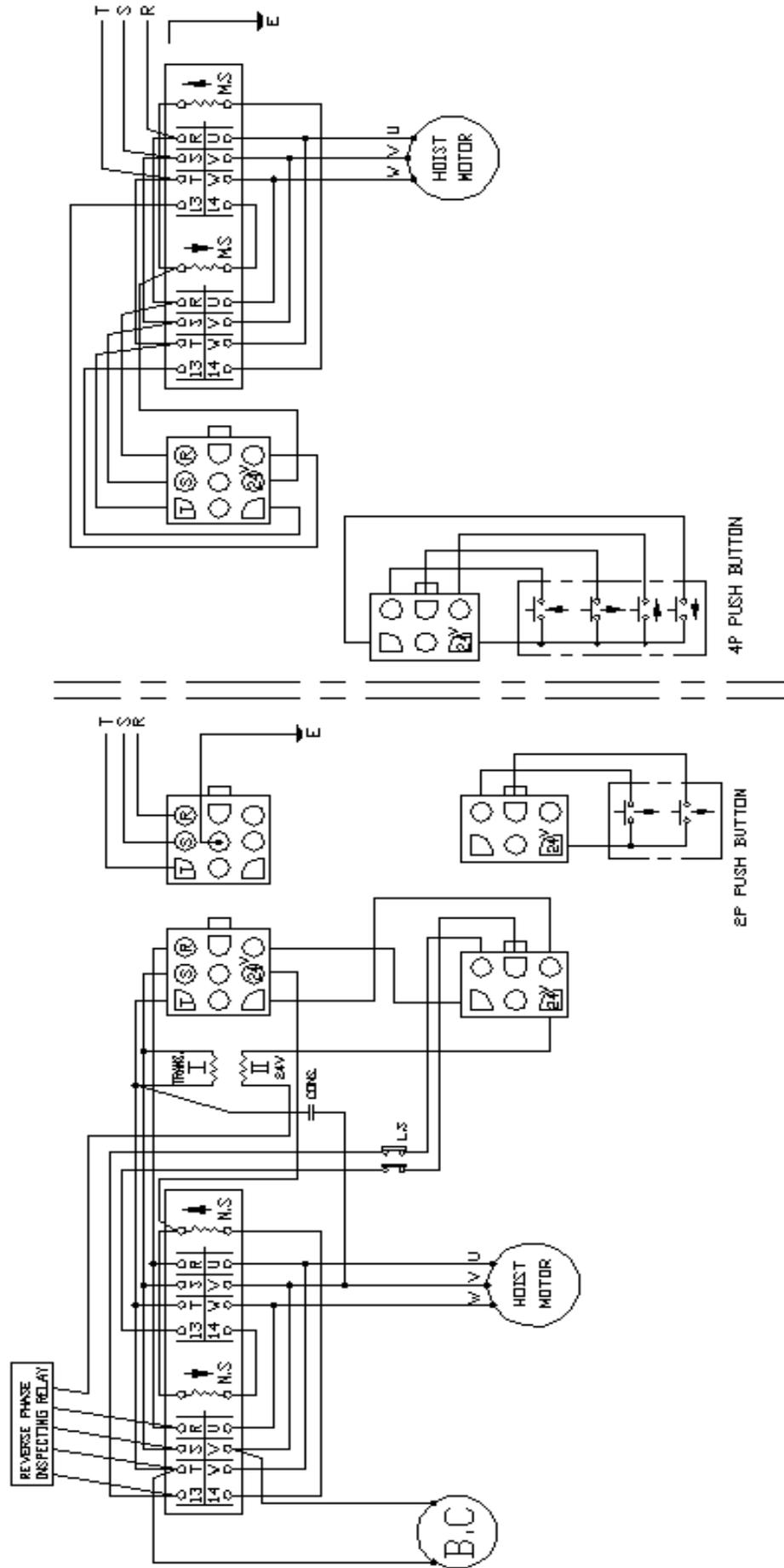
(2) Inspection of brake:

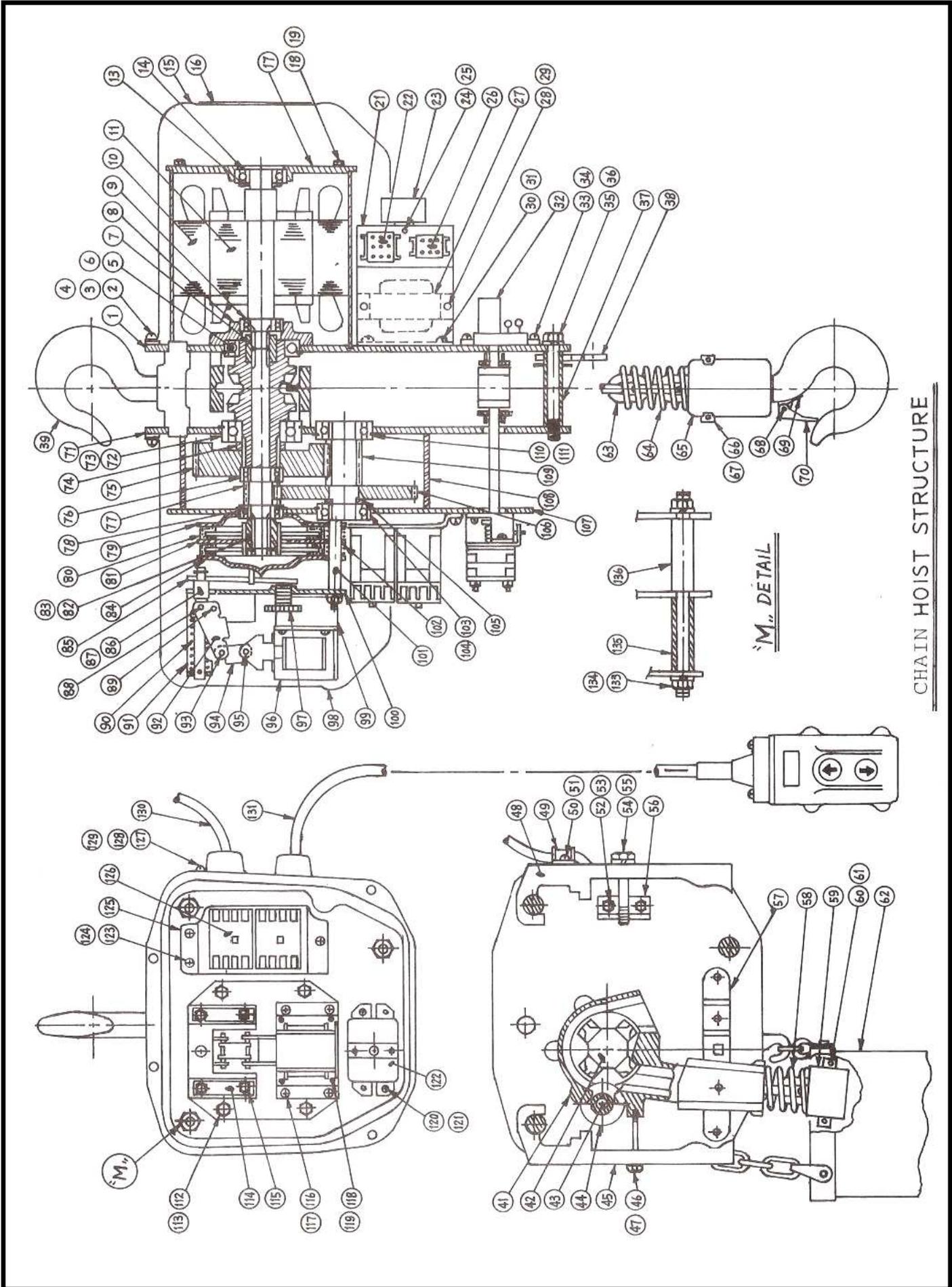
- a. Check the wear and oil all parts.
- b. When the load stops, the slipping distance of load is too large. (See Chart 1.)
- c. When the electromagnetic iron attracts, it produces abnormal noise. In case of any of the above, please make proper adjustment or replace new parts. (See Chart 2.)

CHART 1 CRITICAL SLIDING DISTANCE	
STANDARD RANGE	5 ~ 15 mm
CRITICAL RANGE	Within 20 mm
CHART 1 PROPER BRAKE DISTANCE	
STANDARD CLEARANCE L	8 ~ 13 mm
CRITICAL CLEARANCE L	Within 18 mm

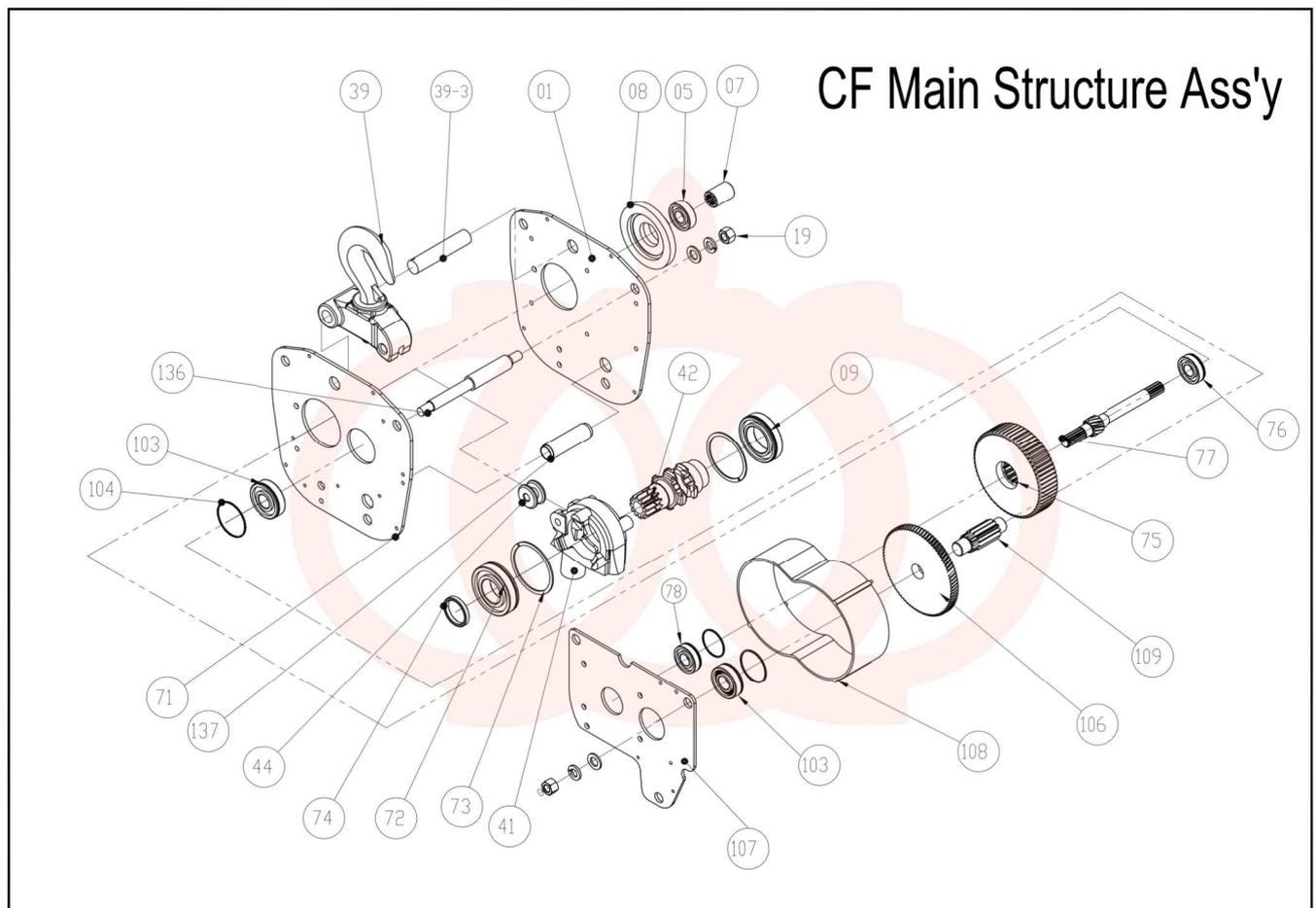
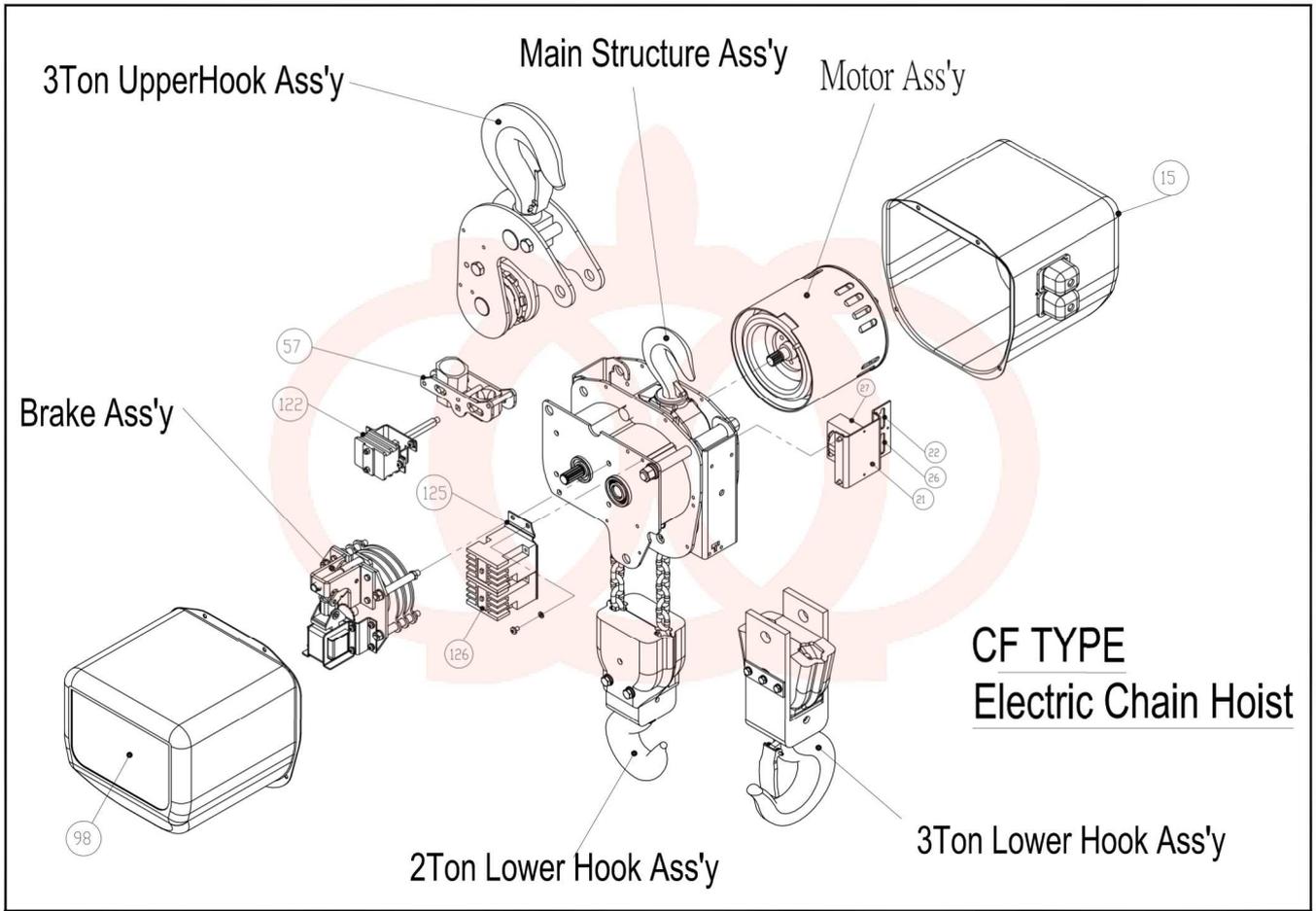


CHAIN HOIST WIRING DIAGRAMS

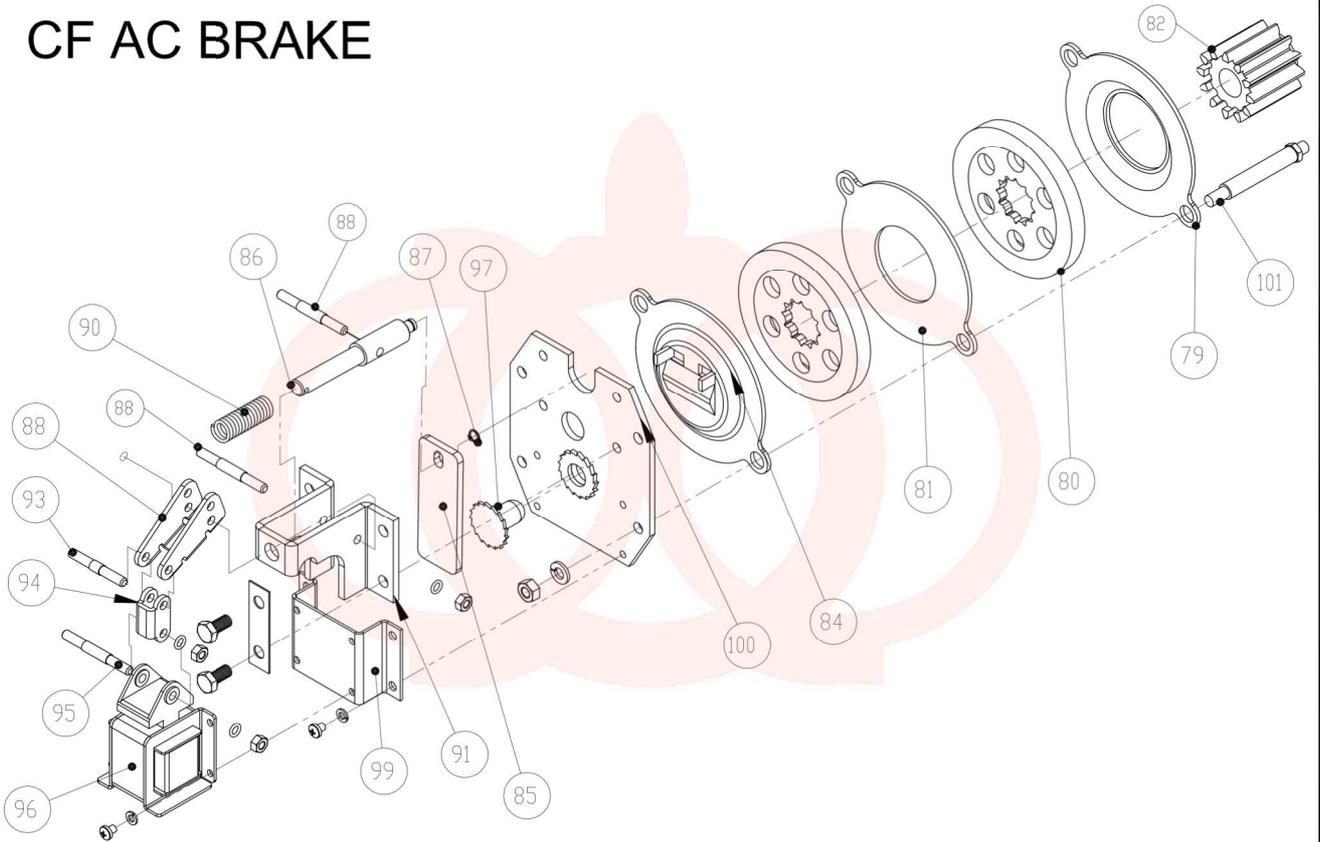




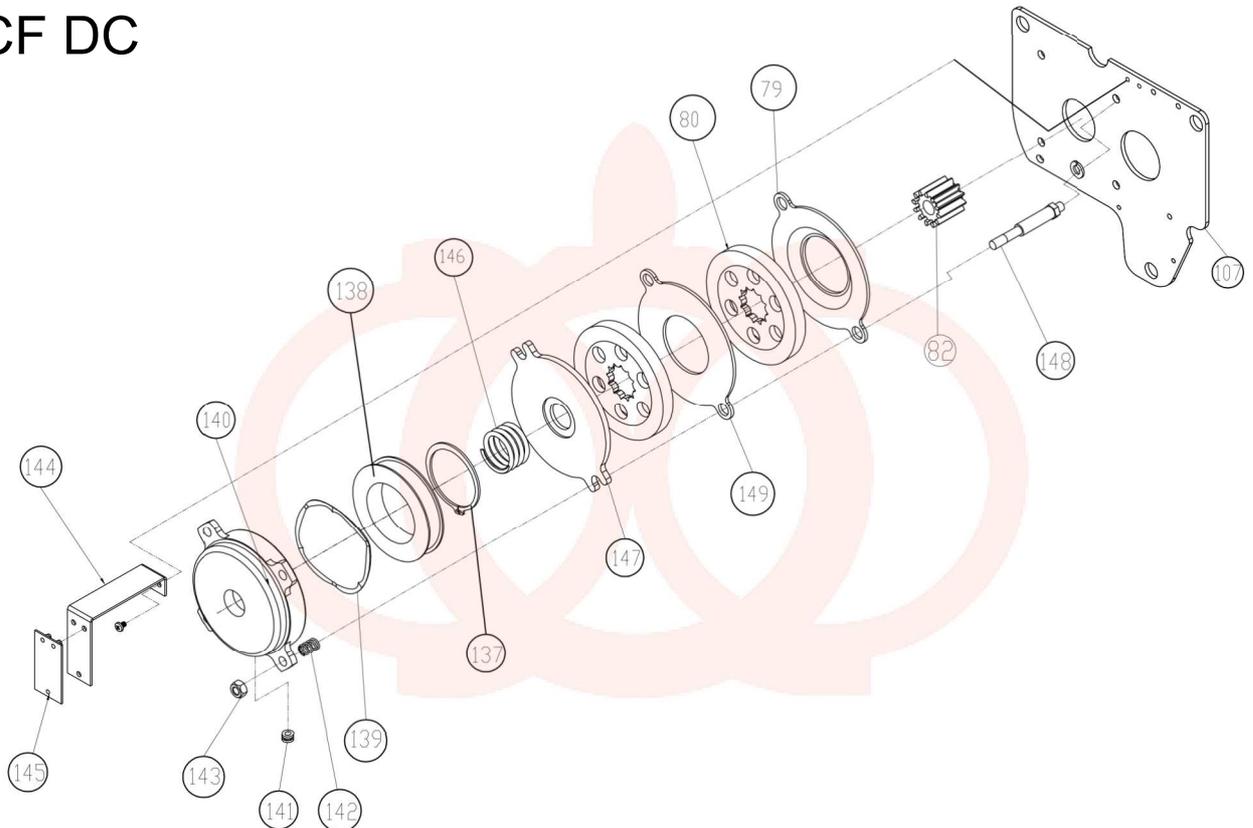
CHAIN HOIST STRUCTURE



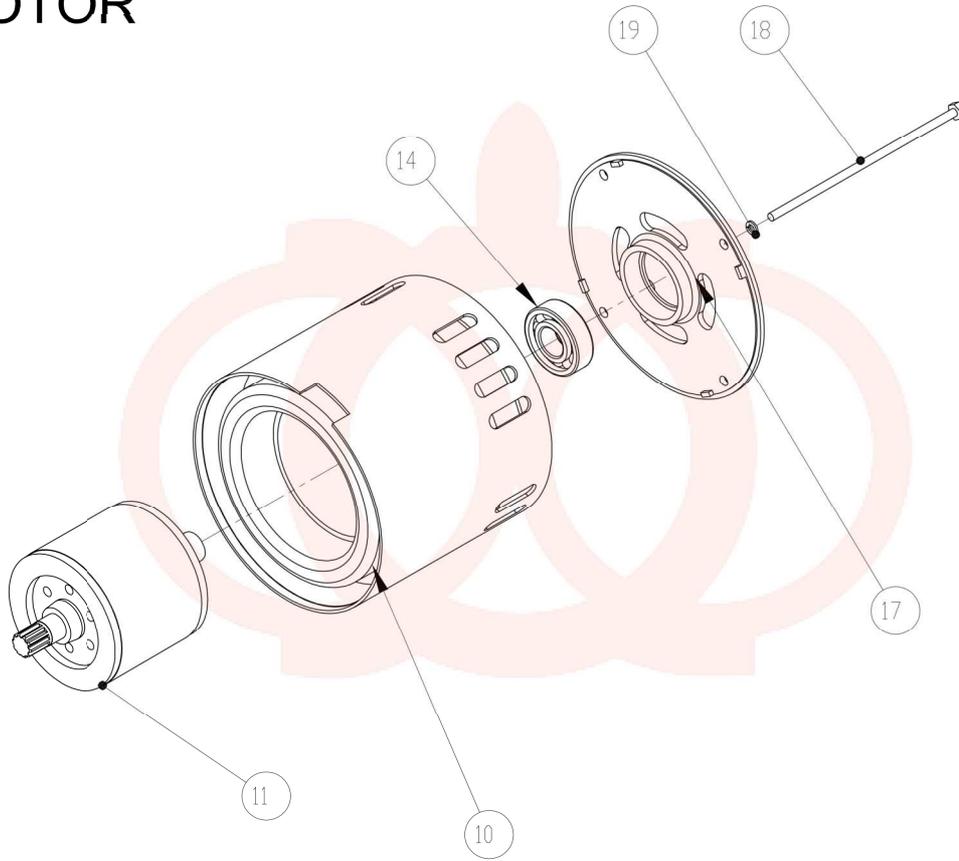
CF AC BRAKE



CF DC



CF MOTOR



CHAIN HOIST PART LIST							
NO.	PART NO.	PART NAME	Q,TY	NO.	PART NO	PART NAME	Q,TY
1	F001	M	1	21	F021	TRANS. BASE	1
	F001-05	1/2CF		22	F022	9 ^P CONNECTOR B 9	1
	F001-10	1CF - 5CF	1	23	F023	CAPACITOR	1
2	F002	PACKING	2	24	F024	SCREW 4ψ	1
	F002-5	1/2 CF	2	25	F025	S. W. 4ψ	1
	F002-10	1CF - 5CF	2	26	F026	6 ^P CONNECTOR B	1
3	F003	SCREW 6ψ	8	27	F027	TRANSFORMER	1
4	F004	S. W. 6ψ	8	28	F028	SCREW 4ψ	2
5	F005	BALL BEARING 6008ZZ	1	29	F029	S. W. 4ψ	2
6	F006	RIN G φ68	1	30	F030	SCREW 4ψ	2
7	F007	1CF-5 CF coupling	1	31	F031	S. W. 4ψ	2
8	F008	MIDDLE BRACKET		32	F032	REVERSE PHASE INSPECTING RELAY	1
	F008-05	1/2 CF	1	33	F033	SCREW 5ψ	2
	F008-10	1CF - 5CF	1	34	F034	S. W. 5ψ	2
9	F009	BALL BEARING	1	35	F035	BOLT 8ψ	1
10	F010	HOUSING ASS'Y		36	F036	S. W. 8ψ	1
	F010-05	1/2 CF	1	37	F037	DIST COLLAR A	
	F010-10	1CF - 5CF	1		F037-05	1/2 CF	1
11	F011	ROTOR ASS'Y			F037-10	1CF - 5CF	1
	F011-05	1/2 CF	1	38	F038	CHAIN CONTAINER HANGER	1
	F011-10	1CF - 5CF	1	39	F039	UPPER HOOK ASS'Y	1
13	F013	SPRING PLATE	1		F039-05	1/2 CF	1
14	F014	BALL BEARING	1		F039-10	1 CF	
15	F015	M COVER		40	F039-10	1CF	1
	F015-05	1/2 CF	1		F039-20	2 CF	1
	F015-10	1CF - 5CF	1		F039-30	3 CF	1
16	F016	NAME PLATE		41	F039-50	5 CF	1
	F016-05	1/2 CF	1		F041	SPROCKET GUIDE	1
	F016-10	1CF - 5CF	1		F041-05	1/2 CF	1
	F016-20	2 CF	1	F041-10	1CF- 5CF	1	
	F016-30	3 CF	1	42	F042	SPROCKET	
	F016-50	5 CF	1		F042-05	1/2 CF	1
17	F017	END BRACKET			F042-10	1CF- 5 CF	1
	F017-05	1/2 CF	1	43	F043	ROLLER PIN	
	F017-10	1CF - 5CF	1		F043-05	1/2 CF	2
18	F018	BOLT 6ψ			F043-10	1 CF- 5 CF	1
	F018-05	1/2 CF 6ψ*143L	4	44	F044	GUIDE ROLLER	
	F018-10	1CF-5CF 6ψ*170L	4		F044-05	1/2 CF	1
19	F019	S. W. 6ψ	4		F044-10	1 CF- 5 CF	1

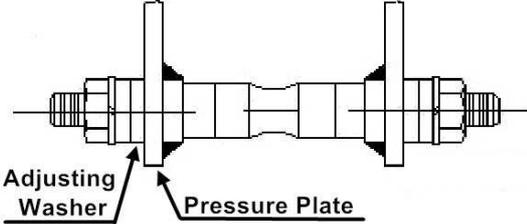
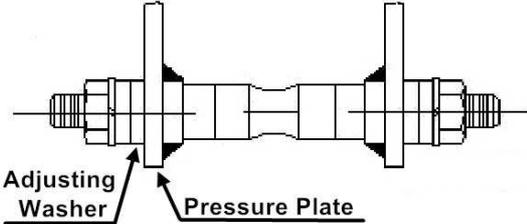
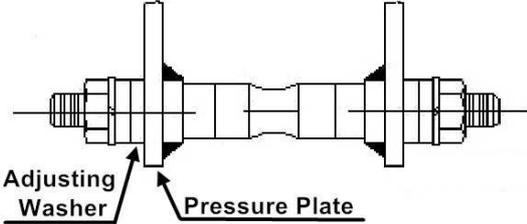
CHAIN HOIST PART LIST								
NO.	PART NO.	PART NAME	Q,TY	NO.	PART NO	PART NAME	Q,TY	
45	F045	SIDE COVER A		65	F065-10	1CF - 5CF	1	
	F045-05	1/2 CF	1		F065-20	2 CF	1	
	F045-10	1CF- 5 CF	1		F065-30	3 CF	1	
46	F046	BOLT 6φ	1		F065-50	5 CF	1	
47	F047	S. W. 6φ	1	66	F066	CHAIN HANGER PIN B	1	
48	F048	SIDE COVER B		67	F067	SPLIT PIN	2	
	F048-05	1/2 CF	1	68	F068	SPRING PIN	1	
	F048-10	1CF- 5 CF	1	69	F069	HOOK SPRING	1	
49	F049	CABLE STOPPER	1	70	F070	LATCH		
50	F050	SCREW 6φ	2		F070-05	1/2 CF	1	
51	F051	S. W. 6φ	2		F070-10	1 CF	1	
52	F052	BOLT 6φ	2		F070-20	2 CF	1	
53	F053	S. W. 6φ	2		F070-30	3 CF	1	
54	F054	BOLT 8φ	1		F070-50	5 CF	1	
55	F055	S. W. 8φ	1	71	F071	S FRAME S		
56	F056	B COVER BASE	1		F071-05	1/2 CF	1	
57	F057	LIMIT LEVER ASS'Y			F071-10	1 CF- 5 CF	1	
	F057-05	1/2 CF	1	72	F072	BALL BEARING 6207zz	1	
	F057-10	1CF - 5CF	1	73	F073	RING φ72	1	
58	F058	LOWER LIMIT SPRING		74	F074	WASHER	1	
	F058-05	1/2 CF	1	75	F075	2ND GEAR	1	
	F058-10	1CF - 5CF	1		F075-05	1/2 CF	1	
59	F059	CHAIN STOPPER			F075-10	1 CF- 5 CF	1	
	F059-05	1/2 CF	1	76	F076	BALL BEARING 6203ZZ	1	
	F059-10	1CF - 5CF	1	77	F077	1 ST PINION		
60	F060	CHAIN HANGER PIN A			F077-05	1/2 CF	1	
61	F061	SPLIT PIN	2		F077-10	1 CF- 5 CF	1	
62	F062	CHAIN CONTAINER		78	F078	BALL BEARING 6203ZZ	1	
	F062-a	FOR 6M CHAIN	1	79	F079	BALL DISK A	1	
	F062-b	FOR 12M CHAIN	1	80	F080	BRAKE WHEEL		
	F062-c	FOR 18M CHAIN	1		F080	1/2 CF	1	
63	F063	LINK CHAIN	2	81	F081	F080	1 CF- 5 CF	2
	F063-05	1/2 CF	3 ^M			BALL DISK B 1 CF- 5 CF	1	
	F063-10	1CF – 5 CF	3 ^M	BRAKE DISK B				
64	F064	UPPER LIMIT SPRING		82	F082	COUPLING B		
	F064-05	1/2 CF	1		F082-05	1/2 CF	1	
	F064-10	1 CF	1		F082-10	1 CF	1	
	F064-20	2CF - 5CF	1	83	F083	SNAP RING	1	
65	F065	LOWER HOOK ASS'Y		84	F084	BRAKE DISK C	1	
	F065-05	1/2 CF	1	85	F085	BRAKE LEVER	1	

CHAIN HOIST PART LIST							
NO.	PART NO.	PART NAME	Q,TY	NO.	PART NO	PART NAME	Q,TY
86	F086	ROD	1	112	F112	NUT 8Φ	4
87	F087	SNAP RING 8Φ	1	113	F113	S . W . 8Φ	4
88	F088	LINK PIN A	1	114	F114	LOCK WASHER	2
89	F089	LINK PIN B	1	115	F115	BOLT 8Φ	4
90	F090	BRAKE SPRING	1	116	F116	SCREW 6Φ	4
91	F091	SPRING COVER	1	117	F117	S . W . 6Φ	4
92	F092	LINK E	1	118	F118	SCREW 5Φ	4
93	F093	LINK PIN C	1	119	F119	S . W . 6Φ	4
94	F094	LINK F	1	120	F120	SCREW 7Φ	2
95	F095	LINK PIN D	1	121	F121	S . W . 8Φ	2
96	F096	SOLENOID	1		F122	LIMIT SWITCH	
97	F097	ADJUSTER SCREW	1	122	F122-05	1/2 CF	1
	F098	G COVER G	1		F122-10	1 CF - 5 CF	1
98	F098-05	1/2 CF	1	123	F123	SCREW 6Φ	3
	F098-10	1 CF- 5 CF	1	124	F124	S . W . 6Φ	3
99	F099	SOLENOID BASE	1	125	F125	M.G. SWITCH BASE	1
100	F100	BRAKE BASE	1	126	F126	M.G. SWITCH	1
	F101	SUPPORT	1	127	F127	SCREW 4Φ	6
101	F101-05	1/2 CF	4	128	F128	S . W . 4Φ	6
	F101-10	1 CF- 5 CF	4	129	F129	SCREW BASE	1
	F102	SPRING			F130	POWER CABLE ASS'Y	
102	F102	1/2 CF	2	130	F130-4	4 ^C CABLE	1
	F102	1 CF- 5 CF	4		F130-6	6 ^C CABLE	1
103	F103	BALL BEARING	1		F131	PUSH BUTTON ASS'Y	1
104	F104	RING	1	131	F131-2	2 ^P BUTTON	1
105	F105	WASHER	1		F131-4	4 ^P BUTTON	1
	F106	1 ST GEAR			F131-6	6 ^P BUTTON	1
106	F106-05	1/2 CF	1	133	F133	NUT	6
	F106-10	1 CF- 5 CF	1	134	F134	S . W .	6
	F107	G FRAME G			F135	DIST COLLAR B	
107	F107-05	1/2 CF	1	135	F135-05	1/2 CF	3
	F107-10	1 CF- 5 CF	1		F135-10	1 CF- 5 CF	3
	F108	GEAR COVER			F136	CF STUD	3
108	F108-05	1/2 CF	1	136	F136-05	1/2 CF	3
	F108-10	1 CF- 5 CF	1		F136-10	1 CF- 5 CF	3
	F109	2ND PINION					
109	F109-05	1/2 CF	1				
	F109-10	1 CF- 5 CF	1				
110	F110	BALL BEARING	1				
111	F111	RING	1				

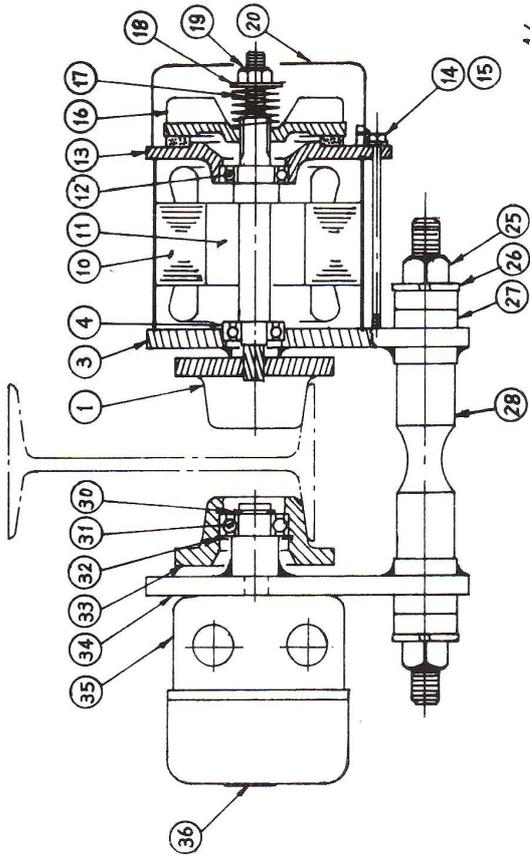
MOTOR TROLLEY

CAUTIONS FOR THE USE OF MOTOR TROLLEYS

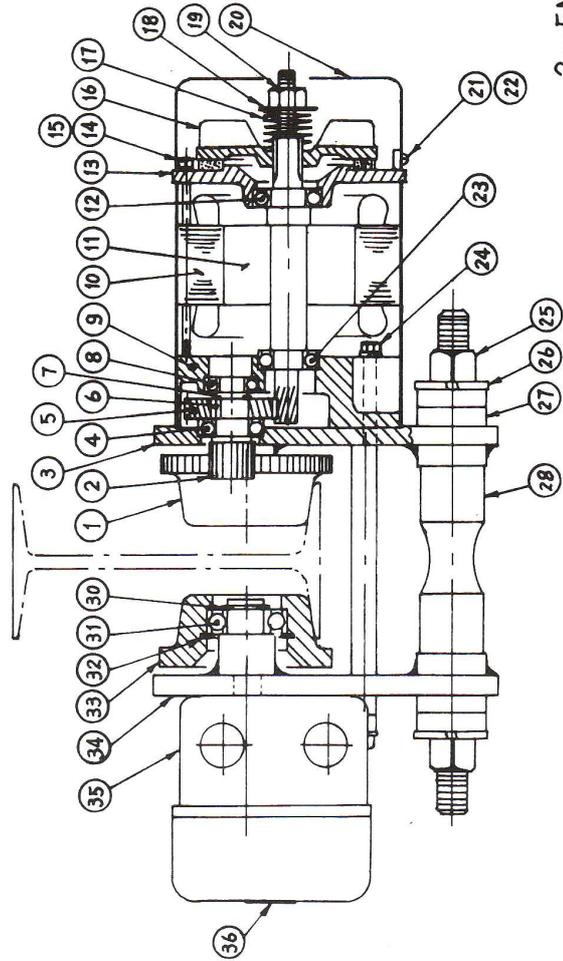
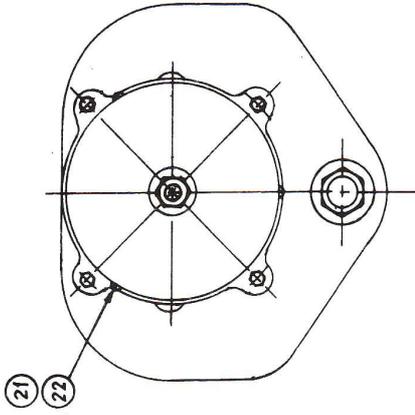
1. Before mounting the motor trolley on the I-beam, the width of I-beam must be measured. As shown in the following diagram, adjust the clearance between the two wheels of the trolley to the correct position. Then, mount it onto the I-beam and tighten the nuts at two ends.

TYPE	MEASUREMENT OF I-BEAM	ADJUSTING THE POSITION OF THE WASHER
1/4~1MT	I 150 X 75 X 5.5	
2~3MT	I 200 X 100 X 7	
5MT	I 250 X 125 X 7.5	
1/4~1MT	I 200 X 100 X 7	
2~3MT	I 250 X 125 X 7.5	
5MT	I 300 X 150 X 8	
1/4~1MT	I 250 X 125 X 7.5	
2~3MT	I 300 X 150 X 8	
5MT	I 450 X 175 X 11	

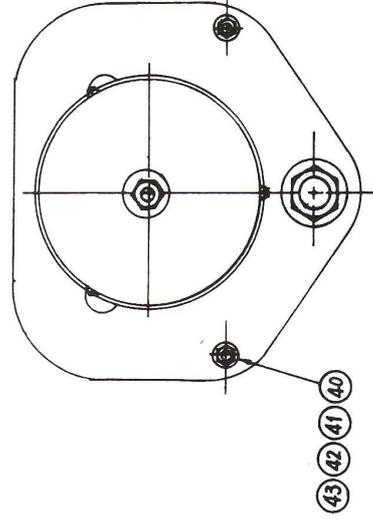
2. The paint on the contact surface of the moving wheel and I-beam must be removed. Otherwise, the wheel will run idle, interfere with the grounding connection and cause electrostatic charge.
3. The gear of the moving wheel with gear must be regularly oiled (use normal grease) . But do not oil the wheel surface and I-beam. Otherwise, it will run idle and perform no movement.
4. Check if the pressure plate is bent, deformed, the coating surface of the electrical cable is aged, damaged or disconnected.
5. Check if the bolts, nuts and snap rings are loosened or disengaged.



1/2, 1 MT MOTOR TROLLEY STRUCTURE



2-5 MT MOTOR TROLLEY STRUCTURE



MOTOR TROLLEY PART LIST (2-1)									
NO.	PART NO.	PART NAME	SIZE	Q,TY	NO.	PART NO.	PART NAME	SIZE	Q,TY
1	T001	Gear Wheel		2	11	T011	Rotor Ass'y		1
	1/2T001	1/4MT & 1/2MT				1/2 T010	1/4MT & 1/2MT		
	1T001	1MT				1T010	1MT		
	2T001	2MT				2T010	2MT & 3MT		
	3T001	3MT				5T010	5MT		
	5T001	5MT			12	T012	Ball Bearing	6005zz	1
2	T002	2ND Pinion		1	13	T013	End Bracket		1
	2T002	2MT				1/2T013	1/4MT & 1/2MT		
	3T002	3MT				1T013	1MT		
	5T002	5MT				2T013	2MT - 5MT		
3	T003	A Frame		1	14	T014	Bolt	φ6×135 ^L	4
	1/2T003	1/4MT & 1/2MT				1/2T014	1/4 & 1/2MT		
	1T003	1MT				1T014	1MT		
	2T003	2MT				2T014	2MT - 5MT		
	3T003	3MT			15	T015	Spring Washer	φ6	4
	5T003	5MT			16	T016	Pressure Plate		1
4	T004	Ball Bearing	6004 zz	1	17	T017	Spring		1
	1T004	1/4MT-1MT			18	T018	Washer	φ12	1
	2T004	2MT & 3MT			19	T019	NUT	M12	1
	5T004	5MT			20	T020	M Cover		1
5	T005	1ST Gear		1	21	T021	Screw	M4×5 ^L	3
	2T005	2MT			22	T022	Spring Washer	φ4	3
	3T005	3MT			23	T023	Ball Bearing	6004 zz	1
	5T005	5MT				2T023	2MT-5MT		
6	T006	Key	7×7×20 ^L	1	24	T024	Bolt	M8×50 ^L	3
	2T006	2MT-5MT				2T024	2MT-5MT		
7	T007	Snap Ring	S20	1	25	T025	NUT	1"	2
	2T007	2MT-5MT				1T025	1/4MT & 2MT		
8	T008	Ball Bearing	6003zz	1		3T025	3MT		
	2T008	2MT-5MT				5T025	5MT		
9	T009	Gear Box		1	26	T026	Spring Washer	φ1"	2
	2T009	2MT-5MT				1T026	1/4 -2MT		
10	T010	Housing Ass'y		1		3T026	3MT		
	1/2 T010	1/4MT & 1/2MT				5T026	5MT		
	1T010	1MT							
	2T010	2MT & 3MT							
	5T010	5MT							

MOTOR TROLLEY PART LIST (2-2)									
NO.	PART NO.	PART NAME	SIZE	Q,TY	NO.	PART NO.	PART NAME	SIZE	Q,TY
27	T027	Distant Ring		4	35	T035	Control Box		1
	1T027	1/4MT & 1/2MT				ST035	1/4MT-5MT 220V OR 380V		
	2T027	3MT			36	T036	Name Plate		1
	5T027	5MT				1/4T036	1/4MT		
28	T028	Hanger Pin		1		1/2T036	1/2MT		
	1/2T028	1/4MT & 1/2MT				1T036	1MT		
	1T028	1MT				2T036	2MT		
	2T028	2MT				3T036	3MT		
	3T028	3MT				5T036	5MT		
	5T028	5MT			40	T040	Screw	M12×150 L	2
30	T030	Snap Ring	S25	4		2T040	2MT & 3MT		
	1/2T030	1/4MT & 1/2MT			41	T041	Dist Collar	φ13	2
	1T030	1MT				2T041	2MT & 3MT		
	2T030	2MT			42	T042	Distant Ring	φ13	8
	3T030	3MT& 5MT				2T042	2MT & 3MT		
31	T031	Ball Bearing	6205 zz	4	43	T043	NUT	M12	4
	1/2T030	1/4MT & 1/2MT				2T043	2MT & 3MT		
	1T030	1MT			44	T044	Spring Washer		4
	2T030	2MT				2T044	2MT & 3MT		
	3T030	3MT & 5MT							
32	T032	Snap Ring	R52	4					
	1/2T030	1/4MT & 1/2MT							
	1T030	1MT							
	2T030	2MT							
	3T030	3MT & 5MT							
33	T033	Wheel		2					
	1/2T033	1/4MT & 1/2MT							
	1T033	1MT							
	2T033	2MT							
	3T033	3MT							
	5T033	5MT							
34	T034	B Frame		1					
	1/2T033	1/4MT & 1/2MT							
	1T033	1MT							
	2T033	2MT							
	3T033	3MT							
	5T033	5MT							

Regular Inspection

Project	Method	Standard of Judgement	Solution
Label Warning Mark	Inspect visually	Stick correctly clean and clearly read	Change
Control Pendant	Push stop button without load	Hoist stops, rotates at the right side; after pushing the stop button, hoist runs	Change
	Push start button without load	Bottom hook could lift and land	Repair or change
Brake	Lift and land 2 or 3 times without load	Check the Brake effect is good or not	Repair or change
Up & Down position limit	Operate the hook into the limit position without load	When touches the down position limit, the electric motor should stop, but could work in	Repair or change
Lifting chain	Inspect visually	Surface with lubricate grease without deformation, without crackle	Clean. Lubricate it; or change it if
Hook	Inspect functions visually	Without deformation, and it could move, slide, and rotate freely	Change
Position limit spring	Inspect visually	Without deformation	Change

Checklist List for Periodic Inspection

Project	Method	Standard of Judgement	Solution
Control pendant	Push button to STOP function	Is the push button stable? No problem?	Repair
Power plant	Measure by voltmeter	± 10% rated voltage	Check the power plant and wire
Hoist frame	Inspect visually	Not broken and cracked	Change
Screw	Inspect visually	Screw should not be loosen or missing	Kindly fasten the screw
Abnormal condition of	Lifting and landing operation with small capacity load	Users should not be able to hear abnormal sound from hoist machine or lifting motor	Repair
Gear oil	Inspect visually	Should be in accordance with the frequency of use	Add gear oil or use new oil
Brake	Lifting, landing, stopping operation within its	Stop when landing, the down slide speed cannot over 1% of lifting speed	Repair
Position limit switch	Lift to the limit position with rated-capacity load	Hoist could stop, could move reversely; the spring has certain flexibility	Repair or change
Lifting chain deformation	Inspect visually	without deformation (such as distortion) without deeper scratch and indent	Change
Lifting chain welding scar	Inspect visually	Warning: without welding scar	Change
Lifting clan rust	Inspect visually	Warning: without obvious rust; lubricate the lifting chain with grease	Change
Hook deformation	Inspect visually	Without obvious deformation and crack; without deeper cracks; screw and bolt should	Change
Hook rotation	Inspect visually	Hook should rotate normally	Change
Hook	Inspect visually Inspect the overall condition	Hook tab should be in the hook tip	Change
Basal plate	Inspect visually Inspection the overall condition	• Should work normally WARNING Please do NOT use the hoist if	Change

Malfunctions and Solutions

Malfunctions	Causes	Solution
The hoist unable to operate when it is switched on	Wire disconnected or power off due to plug loosened	Check and fasten all the wire connection points
	Electrical parts were damaged	Replace with new electrical parts
After switched off, the load dropped while braked	Dust or oil in the brake disc	Clean the disc
	Severe abrasion of disc	Replace with new disc
Chain runs with strange noise	The chain was not well-lubricated	Lubricate chain by oil or grease
	Load-guider broken	Change a new load-guider
Leakage of electricity	The electricity was not well-earthed	Ensure the earthed connection
	High humidity	Use dehumidifier to eliminate the problem
	Too much dust in the electrical parts	Clean the electrical parts
Skid when lifting the load	Load limit is flexible	Screw down the load limiter
Hook extension	Maintain the load with hook tip	Maintain the load at the middle section of hook
	The chain sling of load is not correct	Use a correct chain sling