



SAN YUAN

SINCE 1982 MATERIAL HANDLING

Professional Design & Manufacturer

SAN YUAN ELECTRIC HOIST

CS

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 ENTERPRISE CO., LTD

www.TaiwanHoist.com

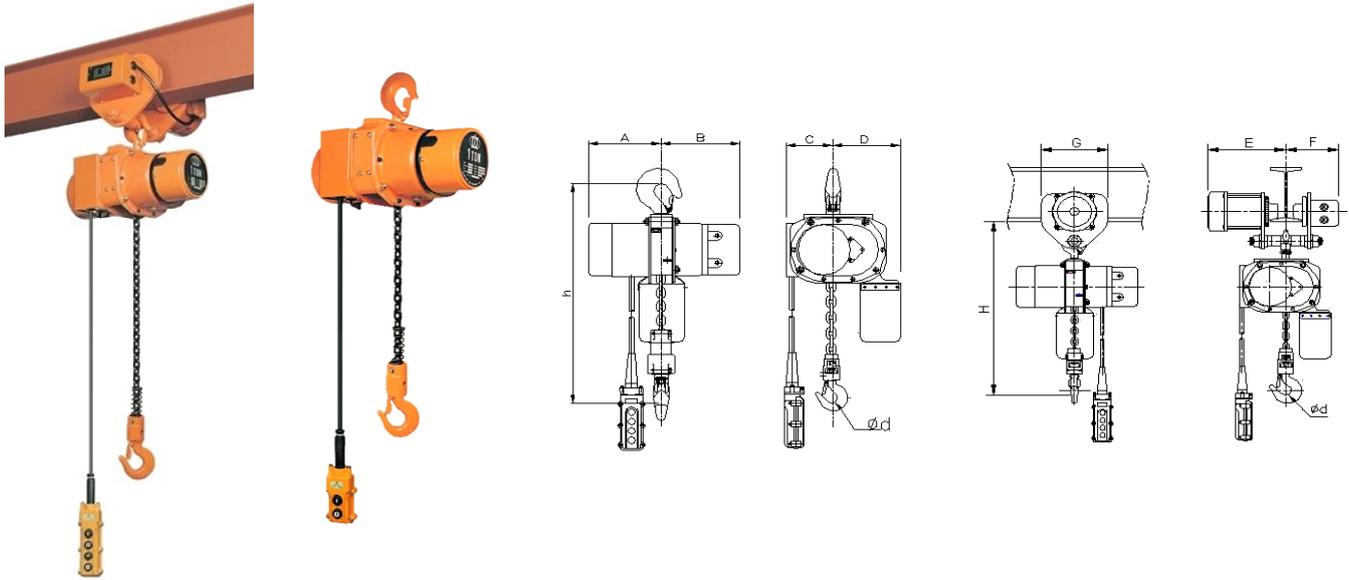
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Type	Hoist Only	1/6CS	1/4CS	1/2CS	1/2CSX	1CS	2CS	
	Hoist + Trolley	1/6CS-MT	1/4CS-MT	1/2CS-MT	1/2CSX-MT	1CS-MT	2CS-MT	
Rated Capacity (Ton)		0.16	0.25	0.5	0.5	1	2	
Hoist Speed (M/min)	50Hz	12	7.6	3.8	7.6	3.8	1.9	
	60Hz	14	9.2	4.6	9.2	4.6	2.3	
Hoist Motor (Kw)	50Hz	0.34			0.7			
	60Hz	0.4			0.8			
Trolley Speed (M/min)	50Hz	15	15	15	15	15	15	
	60Hz	18	18	18	18	18	18	
Chain Dia X No. Of Falls		Φ6.3 X 1				Φ7.1 X 1	Φ7.1 X 2	
Min. Rad. Curvature (m)		1.2	1.2	1.2	1.3	1.3	1.5	
I Beam (mm)		75 ~ 125					100 ~150	
Approx. Dimensions (mm)	A	200	200	200	235	235	235	
	B	210	210	210	230	230	230	
	C	168						
	D	180						
	G	216	216	216	216	240	240	
	h	380	380	380	395	395	460	
	Ød	35	35	35	37	37	40	
	H	435	435	435	435	445	530	
	E	271	271	271	271	277	335	
	F	180	180	180	180	180	225	
N.W. (Kg)	Hoist	35 (37)			38 (42)		49 (56)	
	Hoist + Trolley	49 (52)			63 (67)		80 (87)	

★ 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 :

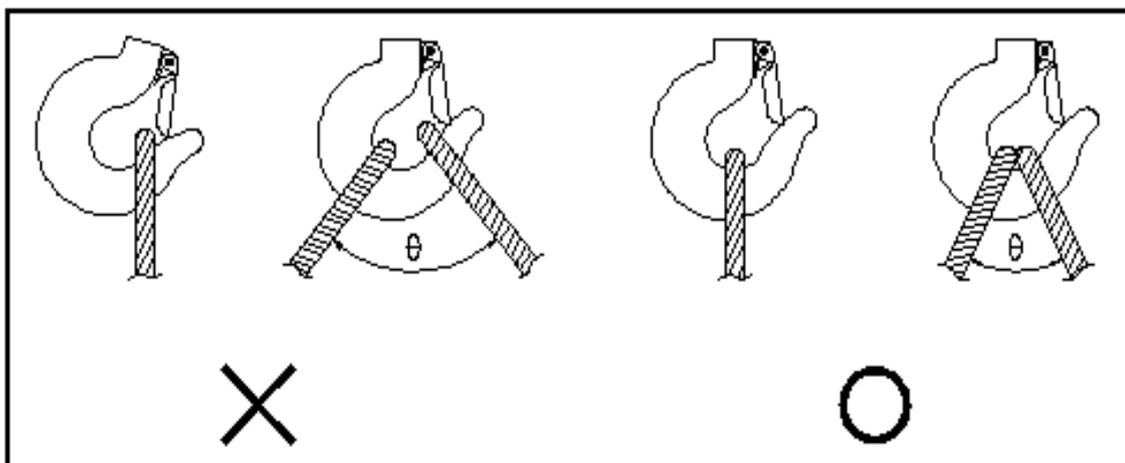
1. Mount the hoist in position. Make sure to secure the power cords and control cables, so as to avoid poor electrical connection.
2. For the wiring system, this machine must be grounded (green wire) to avoid slight leakage caused by static charge.
3. Depress the button switch when the machine runs in 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 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?

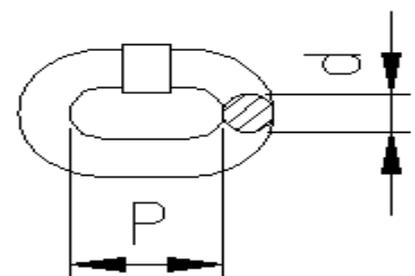
D-2 Regular inspection items:

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



Our CS TYPE CHAIN HOIST has been specially designed and tested. So the main body is especially short, and your operating space is widened. The following the points must be followed in the operation.

(A) Inspection of clutch:

This hoist is fitted with a safety clutch, so that the motor will run idle when the hook reaches the upper and lower limits or the load is excessive. If the limits are reached, the load is excessive, or the use is frequent, the clutch plate will be seriously worn and could not withstand the load. In that case, loosen the chain and remove the screw (53), open the gear rear cover (65), and tighten the nut (59) in it. (See the illustration on the right.)

(B) Inspection of brake:

1. When the load stops, the sliding distance of load is too large. (See Chart 1.)
2. When it is operation, the electromagnetic iron does not produce a suction sound "KA". (Excessive clearance of brake or trouble of rectifier.)
3. When the electromagnetic iron attracts, it produces frequent "beep". In case of any one of the above, please make proper adjustment or replace the parts. (See Chart 2.)

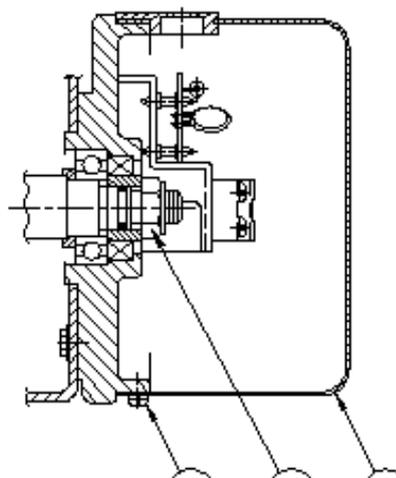
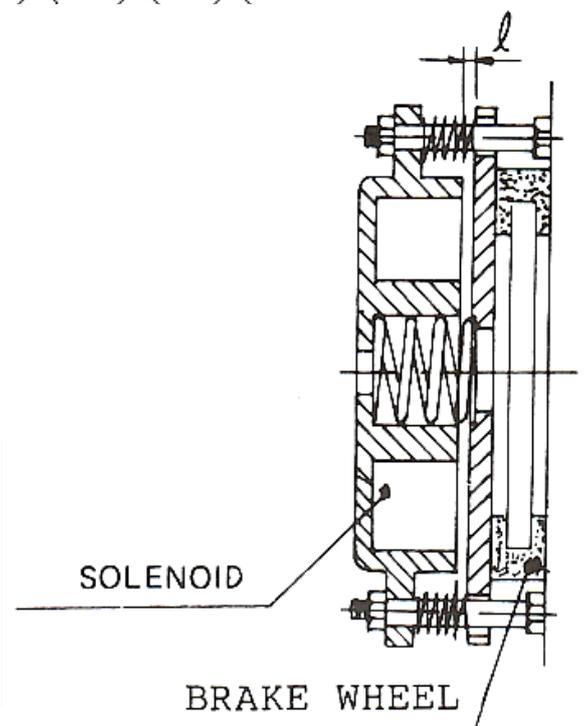
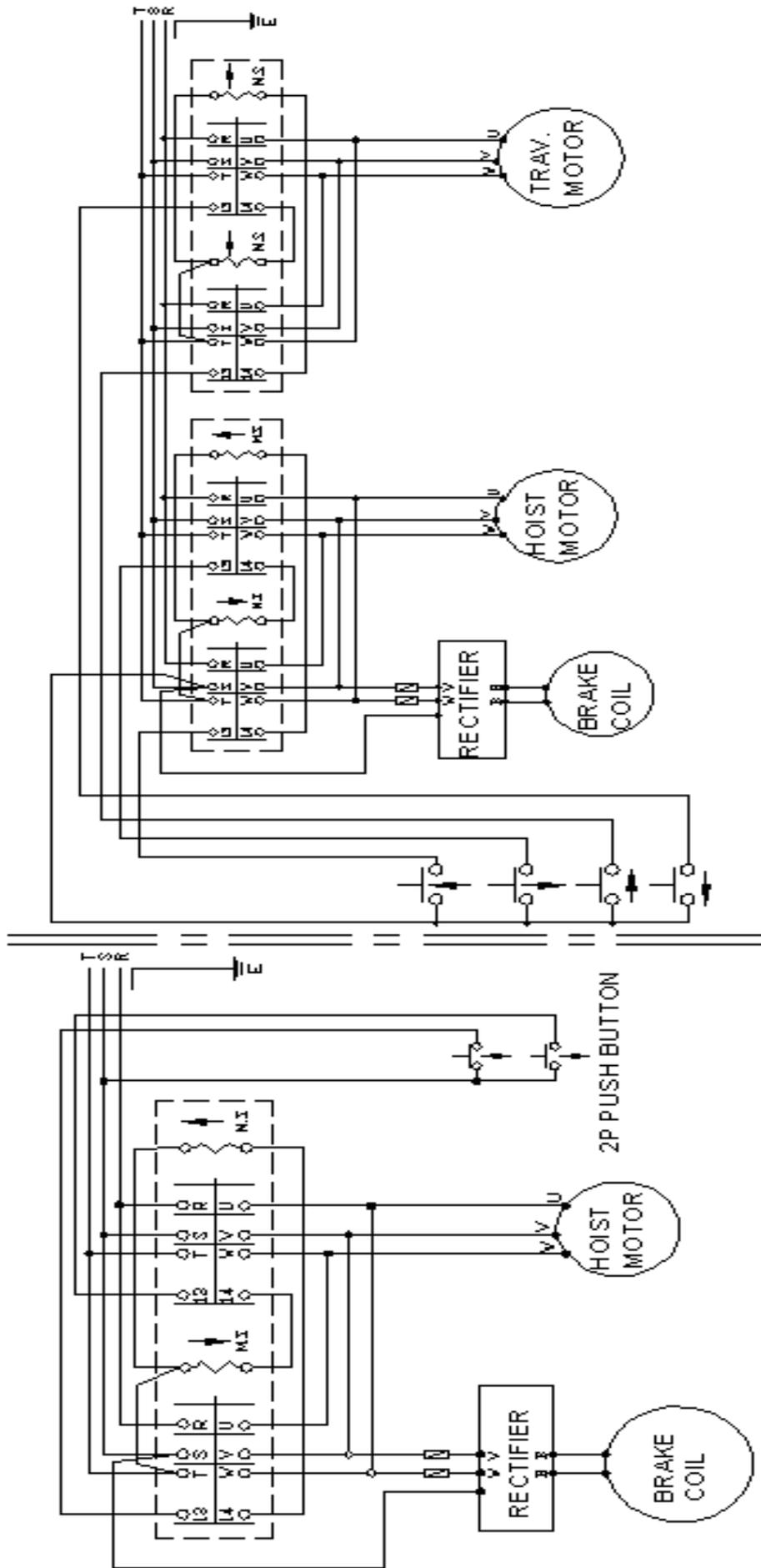


CHART 1 CRITICAL SLIDING DISTANCE	
STANDARD RANGE	5 – 15 mm
CRITICAL RANGE	within 20 mm

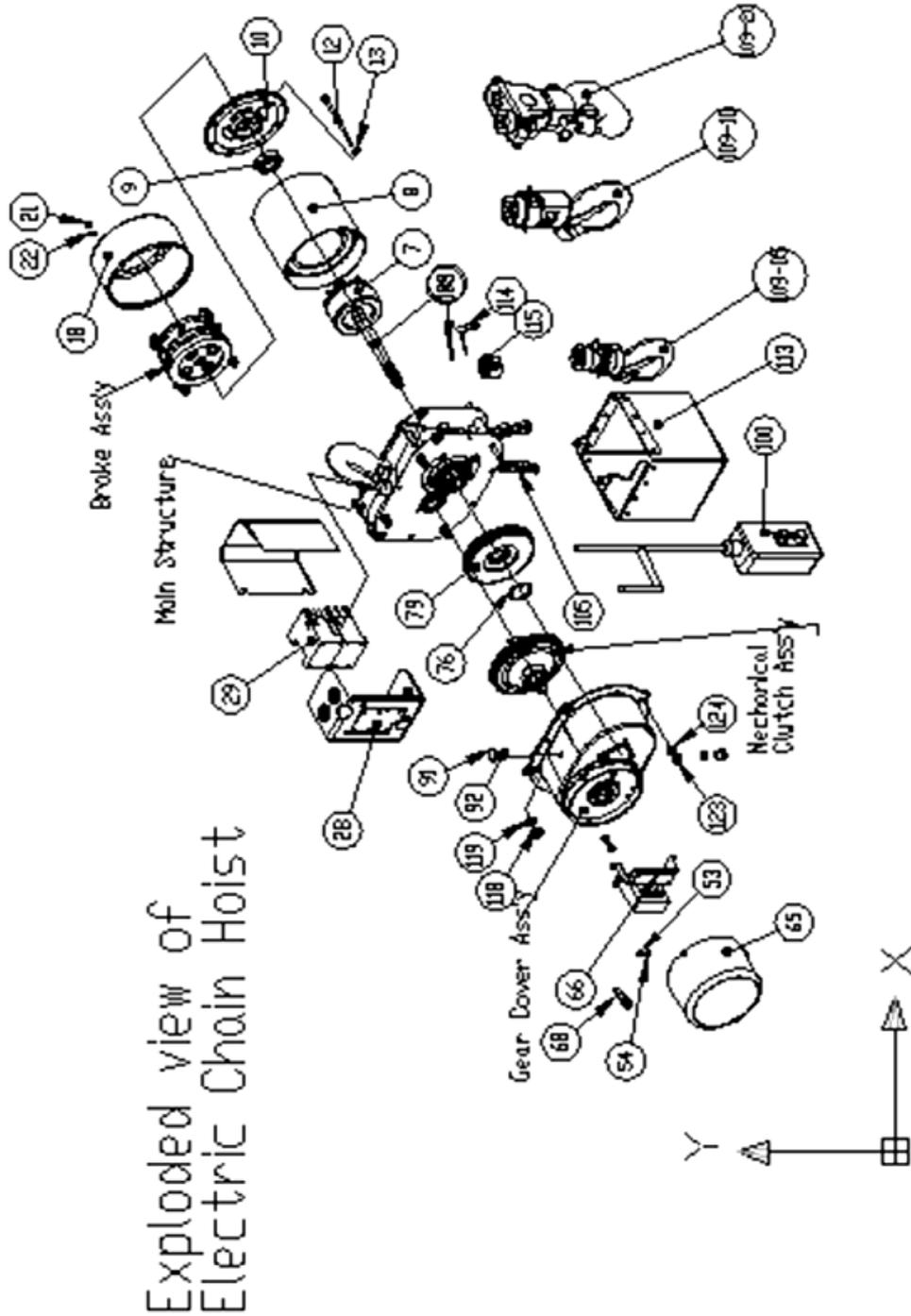
CHART 2 CRITICAL BRAKE CLEARANCE	
STANDARD CLEARANCE l	0.3 – 0.5 mm
CRITICAL CLEARANCE l	within 0.9 mm



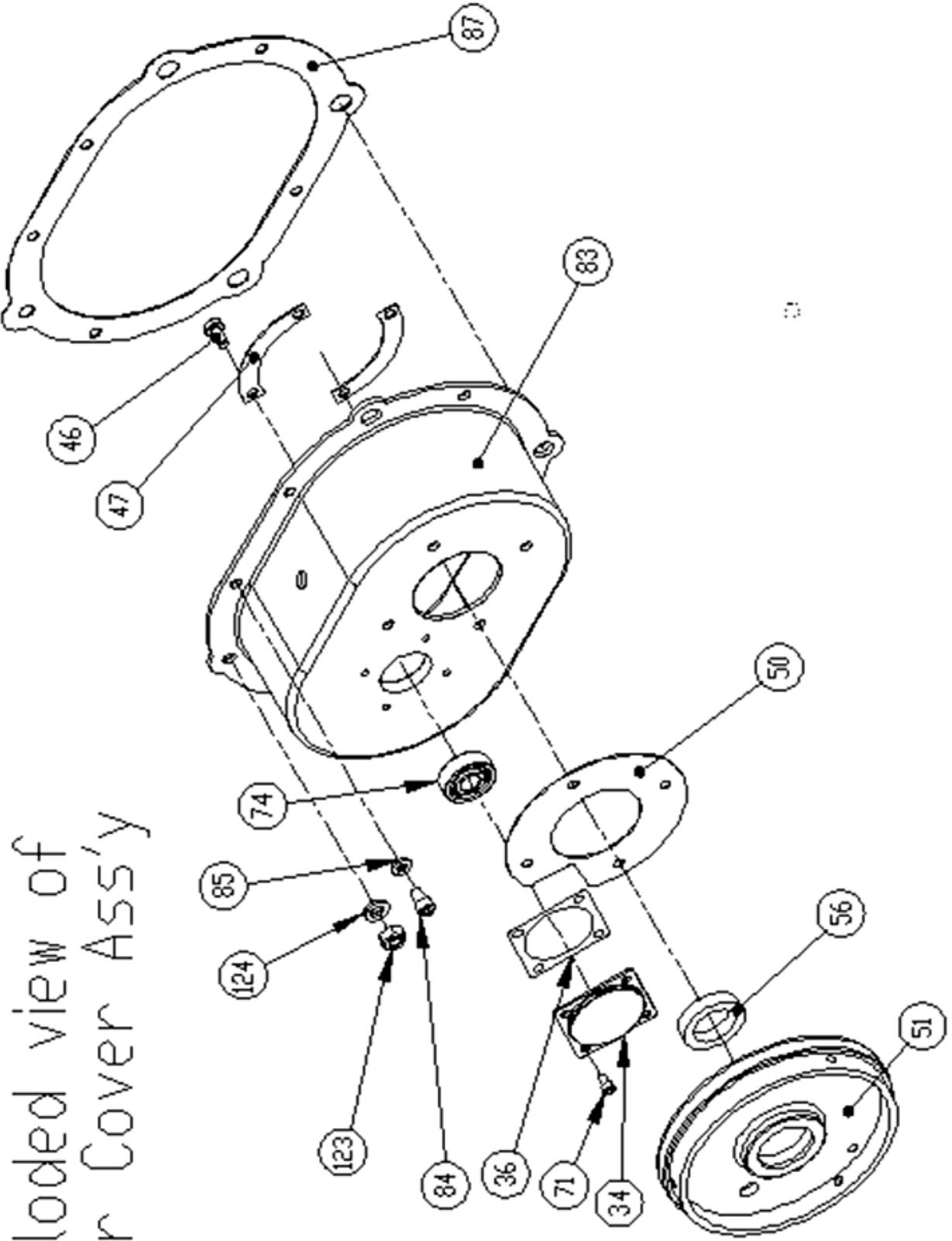
CHAIN HOIST WIRING DIAGRAMS



Explosion Chart (8-1)



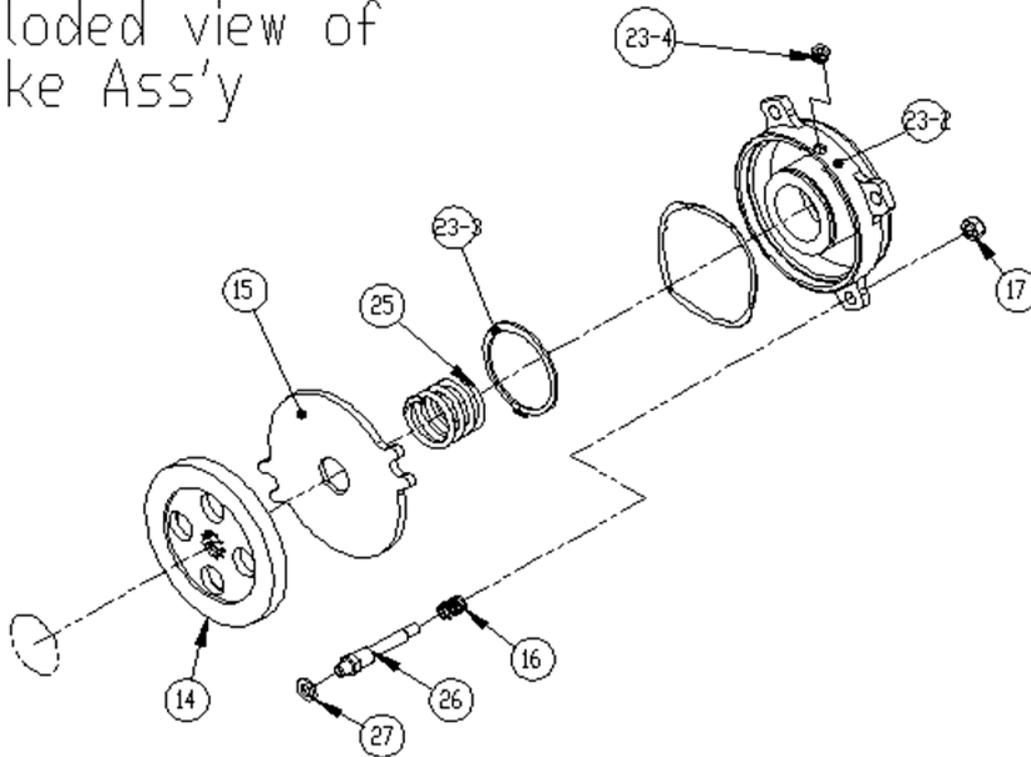
Explosion Chart (8-3)



Exploded view of
Gear Cover Assy

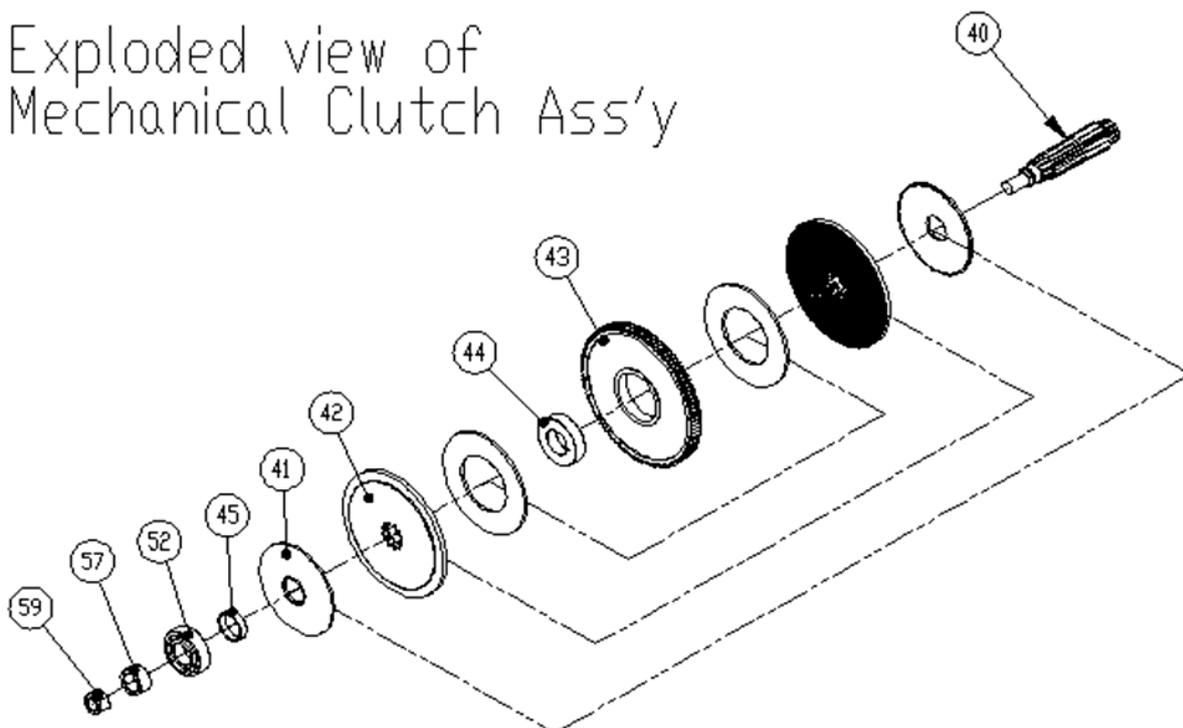
Explosion Chart (8-4)

Exploded view of
Brake Ass'y



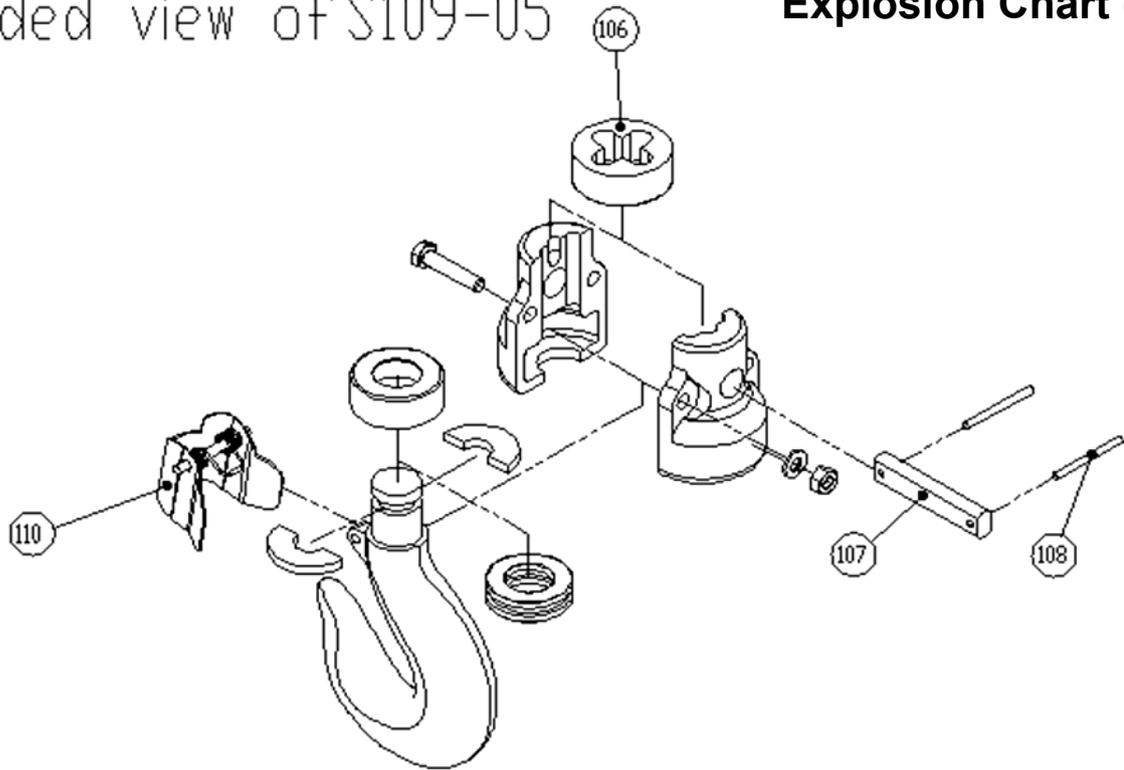
Explosion Chart (8-5)

Exploded view of
Mechanical Clutch Ass'y



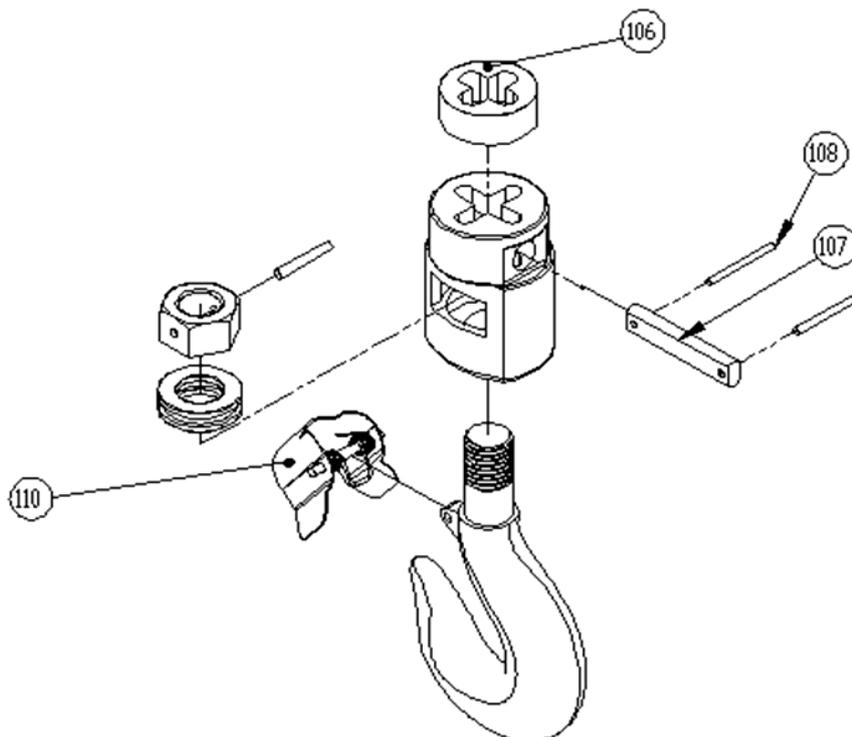
Exploded view of S109-05

Explosion Chart (8-6)



Exploded view of S109-10

Explosion Chart (8-7)



CHAIN HOIST PART LIST (3-1)

NO.	PART NO.	PART NAME	SIZE	Q,TY	NO.	PART NO.	PART NAME	SIZE	Q,TY
1	S001	Upper Hook		1	25	S025	Brake Spring		1
	S001-05	1/4 & 1/2 CS			26	S026	Support		4
	S001-10	1CS			27	S027	Spring Washer	φ8	4
	S001-20	2CS			28	S028	Control Box		1
					29	S029	Magnetic Switch		2
2	S002	M Frame		1					
3	S003	Ball Bearing	6008ZZ	1	30	S030	Sprocket		1
4	S004	Snap Ring	φ68	1		S030-05	1/4 & 1/2 CS		
5	S005	Oil Seal	φ17×φ30×8	1		S030-10	1 & 2CS		
6	S006	Ball Bearing	6003ZZ	1					
					31	S031	Oil Seal	φ38×φ58×7	1
7	S007	Rotor		1	32	S032	Ball Bearing	6007ZZ	1
	S007-05	1/4 & 1/2 CS			33	S033	A Packing		1
	S007-10	1 & 2CS			34	S034	Bearing Cover		1
					35	S035	Screw	φ5×10L	1
8	S008	Stationary Core		1	36	S036	B Packing		2
	S008-05	1/4 & 1/2CS			37	S037	Ball Bearing	6004ZZ	1
	S008-10	1 & 2CS							
					40	S040	2ND Pinion		1
9	S009	Ball Bearing	6004ZZ	1		S040-05	1/4 & 1/2 CS		
10	S010	M Bracket		1		S040-10	1 & 2CS		
12	S012	Bolt	φ6	4	41	S041	Disk Spring		2
	S012-05	1/4 & 1/2CS	φ6×105L			S041-05	1/4 & 1/2 CS		
	S012-10	1 & 2CS	φ6×143L			S041-10	1 & 2CS		
13	S013	Spring Washer	φ6	4	42	S042	Clutch Disk		2
14	S014	Brake Wheel		1		S042-05	1/4 & 1/2 CS		
15	S015	Pressure Plate		1		S042-10	1 & 2CS		
16	S016	Spring		4					
17	S017	U NUT	φ8	4	43	S043	1ST Gear		1
18	S018	M Cover		1		S043-05	1/4 & 1/2 CS		
						S043-10	1 & 2CS		
21	S021	Screw	φ4×6L	4					
22	S022	Snap Ring	S58	1	44	S044	Sleeve		1
23	S023	Brake Coil		1		S044-05	1/4 & 1/2 CS		
	S023-1	Brakes the coil				S044-10	1 & 2CS		
	S023-2	Brake Hull							
	S023-3	Snap Ring	S58						
	S023-4	Electric wire wrap							

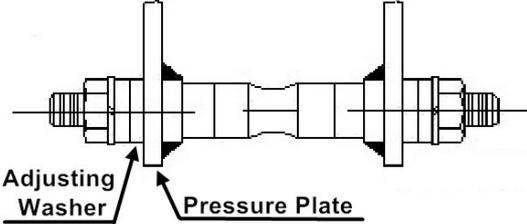
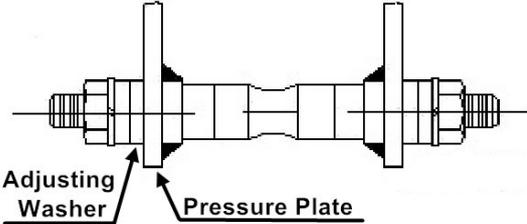
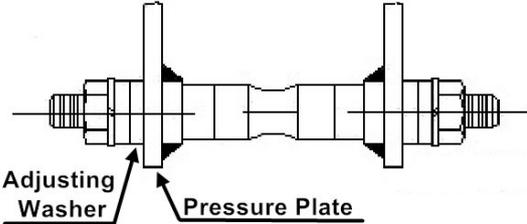
CHAIN HOIST PART LIST (3-2)									
NO.	PART NO.	PART NAME	SIZE	Q,TY	NO.	PART NO.	PART NAME	SIZE	Q,TY
45	S045	Washer	φ23	1	77	S077	Washer	φ35	
	S045-05	1/4 & 1/2 CS				S077-05	1/4 & 1/2 CS		1
	S045-10	1 & 2CS				S077-10	1 & 2CS		1
46	S046	Bolt	φ6×12L	8	78	S078	Snap Ring	φ62	1
47	S047	Lock Washer		4					
50	S050	C Packing		1	79	S079	2ND Gear		1
51	S051	Gear Case Flange		1		S079-05	1/4 & 1/2 CS		
52	S052	Ball Bearing	6004ZZ	1		S079-10	1 & 2CS		
53	S053	Screw	φ5×6L	3					
54	S054	Spring Washer	φ5	3	81	S081	Bolt	φ6*12L	4
55	S055	Plate spring		1	82	S082	Lock Washer B		2
56	S056	Oil Seal	φ26×φ38×8	1	83	S083	Gear Case		1
57	S057	Sleeve		1		S083-05	1/4 & 1/2 CS		
58	S058	O Ring	φ12	1		S083-10	1 & 2CS		
59	S059	U NUT	φ13	1					
61	S061	Rectifier Base		1	84	S084	Socket Bolt	φ6×10	5
					85	S085	Spring Washer	φ6	5
62	S062	Name Plate		1	86	S086	G Frame		1
	S062-03	1/4 CS			87	S087	E Packing		1
	S062-05	1/2 CS							
	S062-10	1 CS			88	S088	Sprocket Guide		1
	S062-20	2 CS				S088-05	1/4 & 1/2 CS		
						S088-10	1 & 2CS		
64	S064	Terminal		1					
65	S065	G Cover		1	89	S089	Guide Wheel		1
66	S066	Rectifier		1		S089-05	1/4 & 1/2 CS		
67	S067	Circuit Board Support		3		S089-10	1 & 2CS		
68	S068	Bushing		3					
71	S071	Socket Bolt	φ4*8L	4	90	S090	Bolt	φ8×12	1
72	S072	Bearing Cover		1	91	S091	Oil Plug	φ8×12	1
73	S073	D Packing		1					
74	S074	Ball Bearing	6201ZZ	1	92	S092	Oil Ring	φ8	1
					93	S093	Screw	φ5×6	1
75	S075	1ST Pinion			94	S094	Side Cover		1
	S075-05	1/4 & 1/2 CS		1	95	S095	Power Cable		1
	S075-10	1 & 2CS		1	96	S096	Cable Stopper		1
					97	S097	Screw	φ6×10	4
76	S076	Snap Ring	φ35	1	98	S098	Spring Washer	φ6	4
					99	S099	Wire Stopper		1

CHAIN HOIST PART LIST (3-3)									
NO.	PART NO.	PART NAME	SIZE	Q,TY	NO.	PART NO.	PART NAME	SIZE	Q,TY
100	S100	Push Button		1	123	S123	NUT	φ8	5
	S100-2	2p Button			124	S124	Spring Washer	φ8	2
	S100-4	4p Button			125	S125	Sleeve	φ8	1
	S100-6	6p Button			126	S126	Bolt	φ8	1
101	S101	Screw	φ6×8L	3					
102	S102	Spring Washer	φ6	3					
103	S103	Oil plug		1					
104	S104	Oil Ring	φ10	1					
105	S105	Link Chain		1					
	S105-05	1/4 & 1/2 CS	φ6.3						
	S105-10	1 & 2CS	φ7.1						
106	S106	Cushion Rubber		1					
	S106-05	1/4 & 1/2 CS							
	S106-10	1 & 2CS							
107	S107	Chain Hanger Pin A		1					
108	S108	Split Pin		4					
109	S109	Low Hook ASS'Y		1					
	S109-05	1/4 & 1/2 CS							
	S109-10	1CS							
	S109-20	2CS							
110	S110	Latch		1					
	S110-05	1/4 & 1/2 CS							
	S110-10	1CS							
	S110-20	2CS							
111	S111	Spring Pin		1					
112	S112	Hook spring		1					
113	S113	Chain Container		1					
	S113-a	For 6M chain							
	S113-b	For 12M chain		1					
	S113-c	For 18M chain		1					
114	S114	Chain Hanger Pin B		1					
115	S115	Chain Stopper		1					
118	S118	NUT	φ10	6					
119	S119	Spring Washer	φ10	6					
120	S120	CS Stud		3					

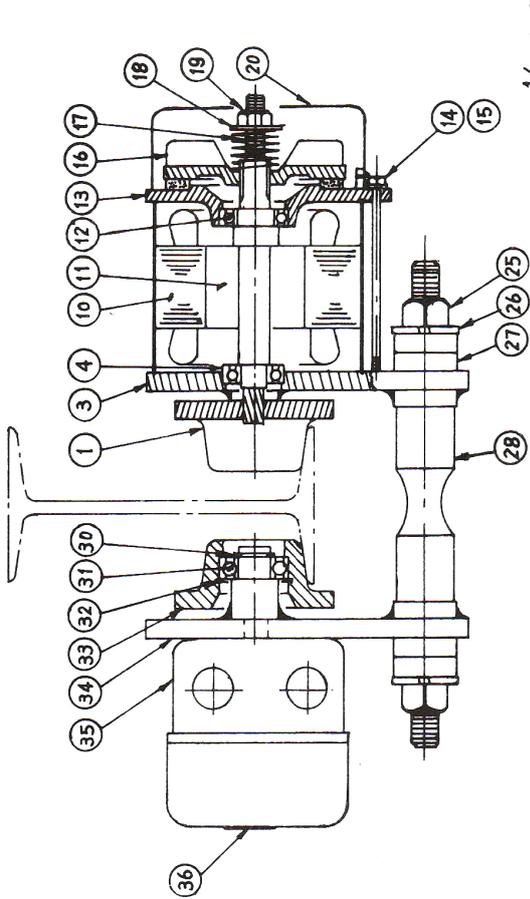
MOTOR TROLLEY

CAUTIONS FOR THE USE OF MOTOR TROLLEYS

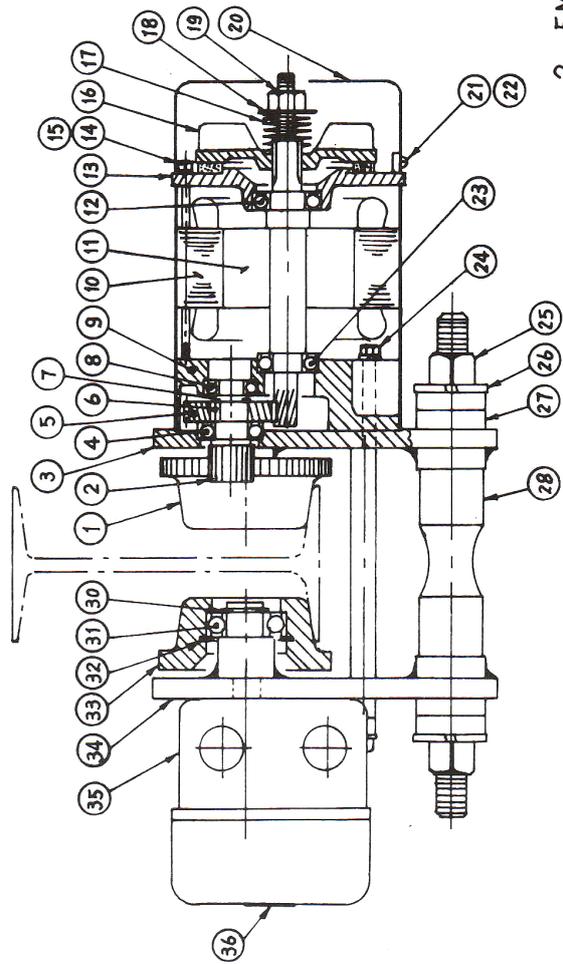
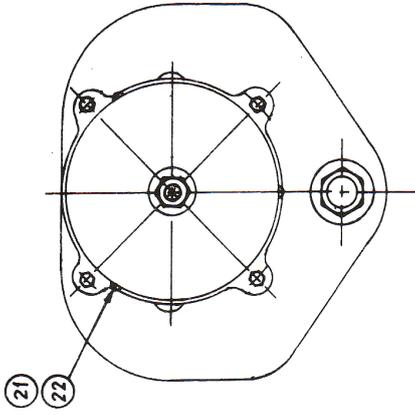
1. Before mounting the motor trolley on the I-beam, the width of I-beam must be measured. As shown in the following diagram, adjust the clearance between the two wheels of the trolley to the correct position. Then, mount it onto the I-beam and tighten the nuts at two ends.

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	

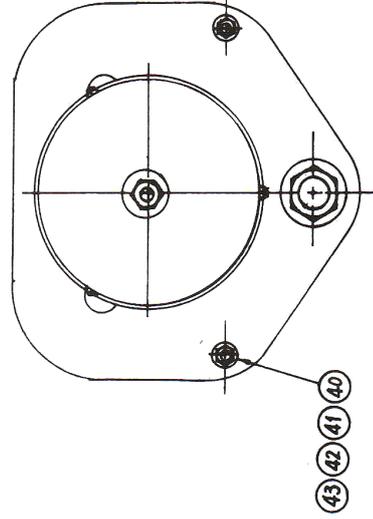
2. The paint on the contact surface of the moving wheel and I-beam must be removed. Otherwise, the wheel will run idle, interfere with the grounding connection and cause electrostatic charge.
3. The gear of the moving wheel with gear must be regularly oiled (use normal grease) . But do not oil the wheel 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 a reverse direction	Repair or change
Lifting chain	Inspect visually	Surface with lubricate grease without deformation, without crackle	Clean. Lubricate it; or change it if necessary
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 operation	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 rated-capacity load	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 be well tightened; without welding scar	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 the hook tab is missing	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