

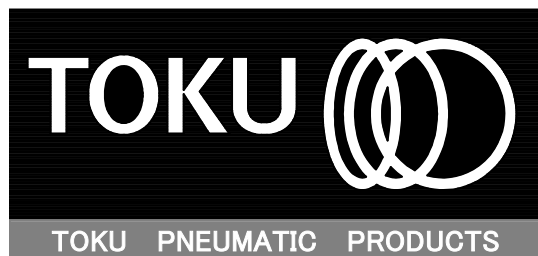
AIR HOIST

TNC-10TWALPE

TNC-10TWALC

TNC-25TWLPE

TNC-25TWLC



www.air-allied.com.au

MANUAL

INSTRUCTION MANUAL

Carefully read all instructions before operating
Or servicing any TOKU tools.

TOKU PNEUMATIC CO., LTD.

12-11

No.4

INTRODUCTION

We thank you for your recent purchase of the TOKU AIR HOIST

This manual is a guide book which will show you how to use the air chain hoist safely and efficiently. Please read this manual in its entirety and understand the contents before proceeding to operate the hoist. Also convey this information to the actual operators of the hoist.

The air hoist was designed to operate on compressed air to lift and lower loads. As a result before operating the hoist it is necessary to also read the instruction manual for the compressor. In addition, for proper regulations about usage of the hoist, consult the “ crane safety regulation standards “

Usage other than the ones written in this manual should be performed with the consideration of safety and responsibility.

PLEASE UNDERSTAND THE FOLLOWING POINTS BEFORE
READING THIS MANUAL;

- ◆ With regards to the safety precautions, the following words are used to identify safety messages in the manual.
 - ⚠ WARNING; This word is used on safety messages and labels where a potential dangerous situation could result in serious injury or death if the hazard is not avoided.
 - ⚠ CAUTION; This word is used in safety messages and on labels for hazards which could result in minor or moderate injury if the hazard is not avoided. This word may indicate hazards whose result could be damage to the equipment. Please also note a caution mark can lead to serious injury depending on the situation.
- ◆ Operators and maintenance personal should read this manual periodically and always keep it handy.
- ◆ If this manual is lost or becomes dirty, ask for a replacement manual from
CE B A Q H a A U a • A U a S A D U C S a
- ◆ If the hoist is not used by one person, please have the new person read this manual before operating the hoist.
- ◆ If you transfer the hoist to another source, make sure that you give the manual to the new owner.

If you have any questions about the hoist or this instruction manual, please contact
CE B A Q H a A U a • A U a S A D U C S a M O (a i n a a • O a E a a B i { E a M U P K E I F A A H G I G A J J J

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SAFETY PRECAUTIONS



WARNING:

- When using the air hoist, obey the safety precautions written in this instruction manual.



WARNING: Obey the safety rules at the job site

- The people who operate the hoist should be the one who have received instruction to properly operate the hoist.
- Obey all rules, safety procedures and operational methods at the job site.
- When using the hoist with other people, make sure your signals during operation are well discussed before jointly using the hoist.



WARNING: Wear proper clothing and safety protection

- Wear proper clothing when operating the hoist.
- To protect the body, wear safety items such as a helmet, mask, safety shoes and gloves. Or if the sound level is high, where ear plugs.
- Do not wear a tie or loose fit clothing when operating the hoist. They may get caught in the chain during operation.



WARNING: Safe operation begins with proper posture.

- It is dangerous to operate the hoist when your posture is not in balance. Make sure your footing is proper and your body is stable when operating the hoist.



WARNING: Attach the hose properly

- Make sure the hose socket is securely tight using a hose band.



WARNING: Do not modify the hoist.

- Do not remove screw or covers which are on the hoist.
- Do not modify the hoist. This will lead to danger.
- The responsibility will be yours if an accident occurs due to these modifications.



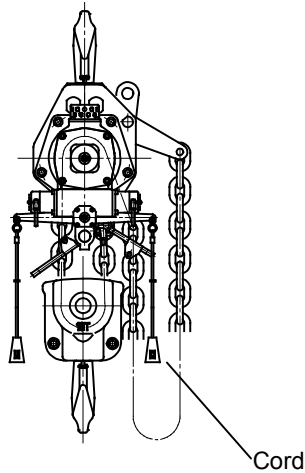
WARNING: Do not use the chain or hook as an earth connection.

During a weld operation, do not use the chain or hook as an earth connection. This may lead to the cause of an accident or other damages.

PRECAUTIONS DURING OPERATION

⚠ WARNING:

- Do not pull on the cord unnecessarily.



Pulling on the cord will begin Operation of the hoist

Releasing the cord will stop the Hoist.

⚠ WARNING:

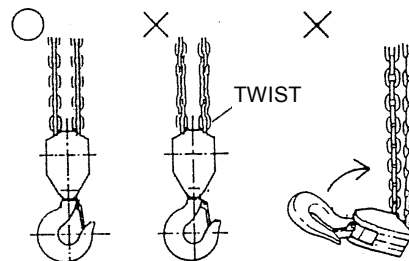
- When operating the hoist, make sure your footing is proper, the surroundings are safe and you are obeying the rules for the job site.

⚠ WARNING:

- Make sure the load is properly hooked. Also check the safety claw on the hook for and damages.

⚠ WARNING:

- As shown in the diagram, make sure the chain is not twisted during the usage of the hoist. If the chain is twisted, this will lead to jamming and also possible breakage of the chain.



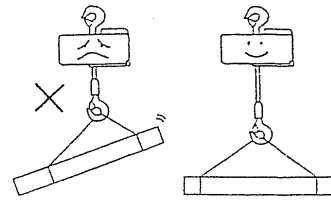
⚠ WARNING:

- Do not overload the hoist.

Before lifting the load, confirm that the load is within the rated load of the hoist.

⚠ WARNING:

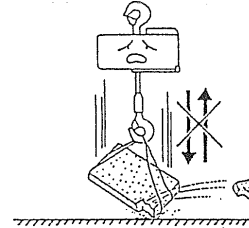
- When using wire rope or a sling, make sure the load is balanced before lifting.



⚠ WARNING:

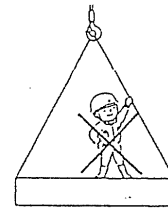
- Do not lift or lower the load suddenly.

When suddenly lowering the load this may lead to poor balance of the load and the load may fall.



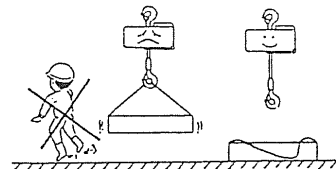
⚠ WARNING:

- The air chain hoist is used to lift loads. Never lift people using the hoist.



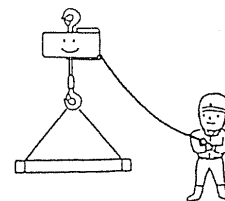
⚠ WARNING:

- Do not leave the job site when a load is in suspension. Always lower the load and un-hook the load before departing.




⚠ WARNING:

- Do not operate the hoist under the load. Make sure you are away from the load when operating the hoist.




⚠ WARNING:


- When using the hoist jointly with another person, use signals agreed at the job site and obey them during a joint operation.

 **CAUTION;** Do not over lift and over lower the hoist continuously.

- The limiter for over lifting and over lowering does operate but continuously using this device may lead to an accident and is not recommended to perform continuously.

 **CAUTION;** Do not use the hoist in the horizontal position.

- The hoist was designed to be used in the vertical direction.
Using the hoist in the horizontal direction is not recommended and may result in an accident or premature wear of parts.

 **CAUTION;** Do not suddenly change the direction of the hoist.

- Suddenly changing the direction of the hoist will shock certain areas of the hoist and may cause breakage of parts or lead to an accident.


 **CAUTION;** Do not pull on the “ Pull cords” to move the hoist.

- Pulling on the Pull cords to move the hoist will lead to operation failures and must not be performed.

BASIC SAFETY PRECAUTIONS

 **CAUTION;** Keeping the area tidy is the first step to safety.


- Keeping the job site tidy is the first step to a safe environment. Keep the facility clean and neat at all times.

 **CAUTION;** Stay away from the job site if you do not operate the hoist.


- If you are not the operator, stay away from the job site, especially children.

 **CAUTION;** Difficult operations will lead to accidents.


- Do not use the hoist for operations over its capacity. These operations may lead to damage of the hoist and should be avoided.

 **CAUTION;** Stop operating the hoist if trouble is detected.


- When operating the hoist if trouble is found, immediately stop operating the hoist and inspect or repair.

 **CAUTION;** Handle the hoist with care;

- Do not drop or hit the hoist externally. This will lead to cracks and damage to the hoist. Also do not stamp or engrave information directly onto the hoist. If a crack develops, and air is leaking through the crack, do not operate the hoist.

 **CAUTION;** Good maintenance will extend the life of the hoist.


- Keep a good maintenance program for the hoist and keep it clean.

 **CAUTION;** Periodic inspection of the hoist is the basics to safety.

- Periodic inspection of the hoist will allow your hoist to operate smoothly and safely.
- Refer to the crane safety standards, daily and monthly inspection programs should be performed.

 **CAUTION;** For inspection or repair of the hoist, consult your dealer.

- Contact your dealer for repairs or inspection of the hoist. When parts are need to be changed, use only genuine TOKU parts.

 **CAUTION;** Storage of the hoist is also very important

- Store the hoist away from children in a dry area. When storing the hoist for a longer period of time, to prevent internal rust apply 3 cc of lubrication into the air hose and operate the hoist for 3-4 sec.

SPECIFICATIONS

Model	Operation	Rated Load (ton)	Air Pressure (MPa)	Lift Speed (m/min)	Air Consumption (m ³ /min)	Std. Lift (m)	Air Inlet	Weight (kgs)
TNC-10TWALPE	Pendant	10	0.6	1.5	5	3	Rc 1"	220
			0.5	1.2	4.5			
			0.4	0.9	4			
TNC-25TWALPE		25	0.6	0.5	5			495
			0.5	0.45	4			
			0.4	0.4	3			

* The Air Consumption data is measures with rated load

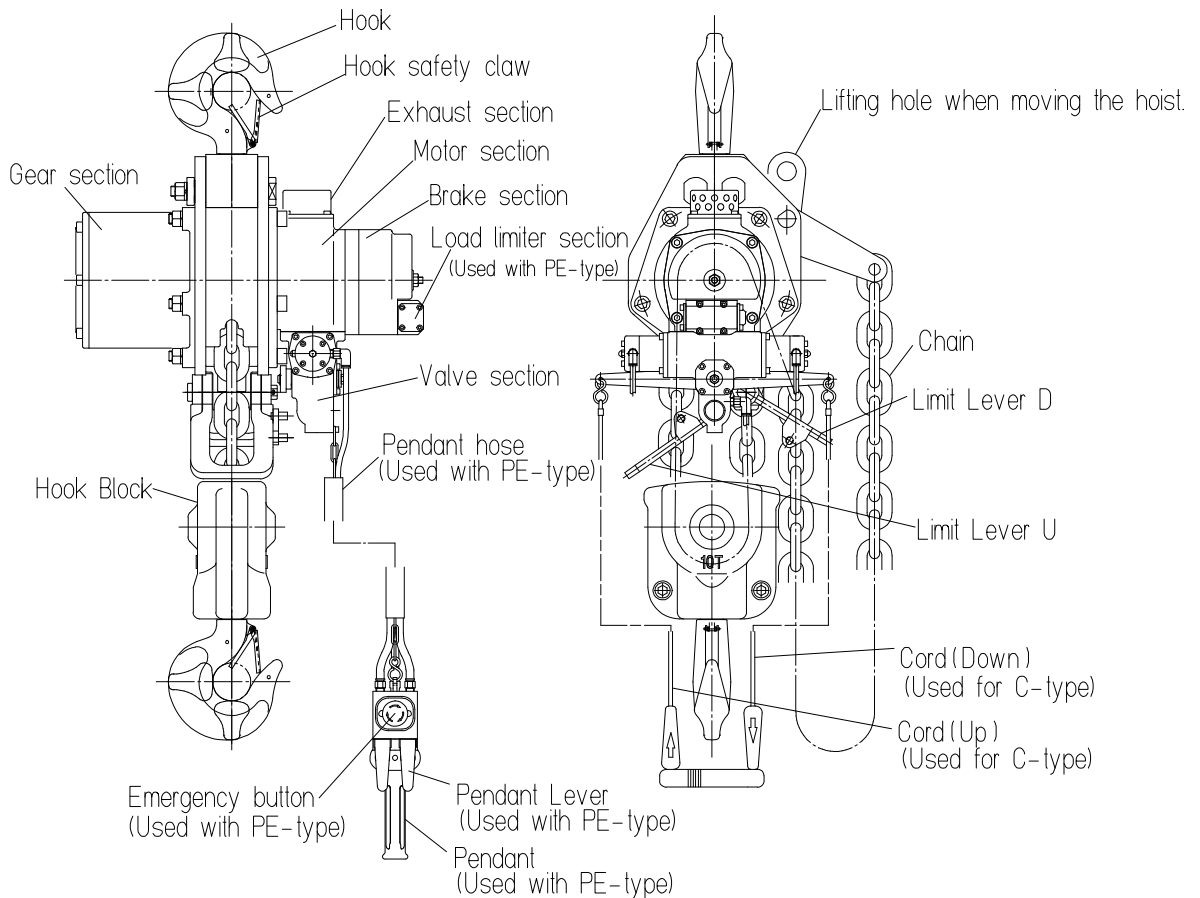
* Lifting speed data is with rated load in the lifting direction. The measurements show using a cord or using a pendant valve hose length of 2 meters.

* Please note using a pendant valve hose exceeding 2 meters may have difference performance specifications.

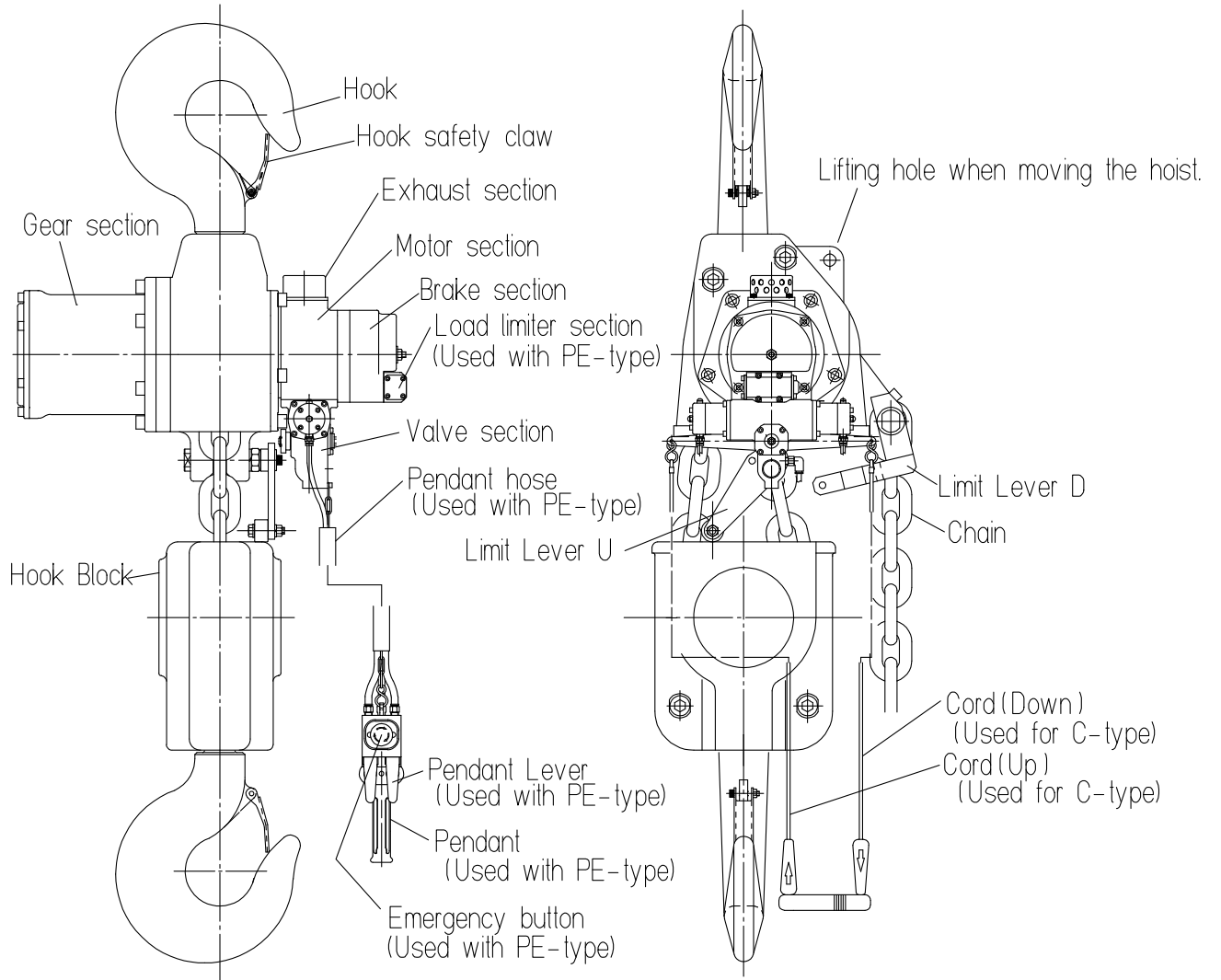
* The weight for the C-type is approximately 5 kg less and the areas are the same.

NAME OF PARTS

TNC-10TWALPE, C



TNC-25TWLPE, C



PREPARATION BEFORE OPERATION

1. Selection of the compressor and drain removal.

- Method of selection; (Air Consumption for each hoist is shown on Page 8)


$(\text{Air consumption} \times 10) \times \text{Hoist Quantity} \leq \text{Compressor Horse Power}$
--

- Method of drain removal;

Rust will develop leading to the cause of trouble if the drain is not removed from the compressor. Remove the drain at the bottom of the air tank on your compressor. Remove excess water and oil. Supply clean dry air to the hoist.
(Refer to the compressor manual for details)

2. Preparation and connection of Hose

- Size of Hose; The inside diameter of the hose should be 25.4mm for the hoist.
- Length of Hose;


 **CAUTION**; Use a hose length within 10 meters.

If the hose is too long, the air pressure will drop at the hoist.
Please refer to the following chart concerning pressure drop.

Size of Hous (mm)	Air Pressure (MPa)	Hose; 10meters in Length with free air flow (m ³ /min)				
		1	2	3	4	5
25.4	0.4	0.0014	0.0055	0.0121	0.0189	0.0296
	0.5	0.0012	0.0047	0.0101	0.0158	0.0247
	0.6	0.001	0.004	0.0086	0.0135	0.0212
	0.7	0.0009	0.0035	0.0076	0.0119	0.0185

(MPa)

- Connection;

 **CAUTION**; When connecting the hose remove all dirt from the connecting surfaces.

3. Inspection of the Hoist

- Check for loose screws and bolts
Check for loose screw and bolts. If loose screws and bolts are found, retighten them.
- Inspect for cracks and damaged areas
Check for cracks and damage to the hoist. If problems are found, do not operate of use the hoist. Bring the hoist to your dealer for service.

4. Hang the hoist in a secure location.



WARNING:

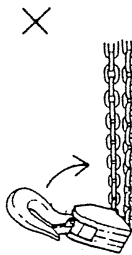
- Before hanging the hoist, make sure the hanging area is secure.

5. Checking the Chain.



WARNING:

- Confirm that the chain is not tangled before operating the hoist. If twisted, fix the chain first then proceed to operate the hoist.



6. Confirmation of Hooking devices



WARNING:

- Confirm the rated capacity for all sling chains and wire ropes before using them. Also, check for any damage to these items. It is very dangerous to use them if they are not checked for the above.

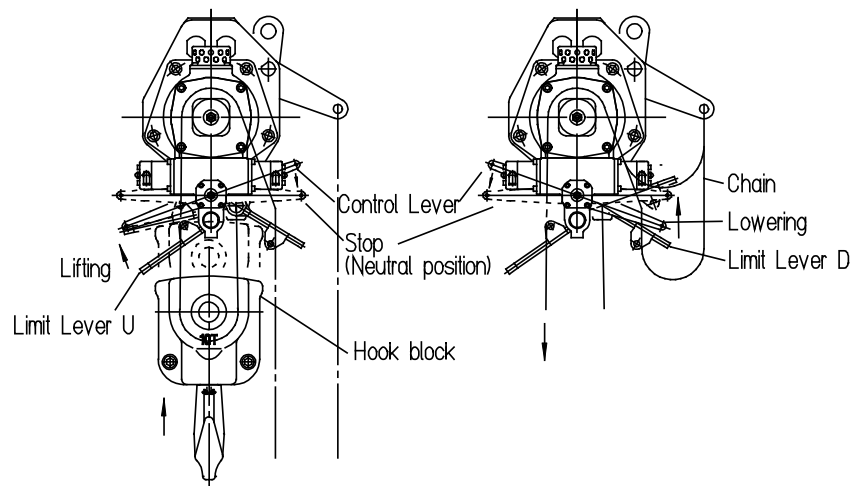
7. Check over winding and over lowering devices.



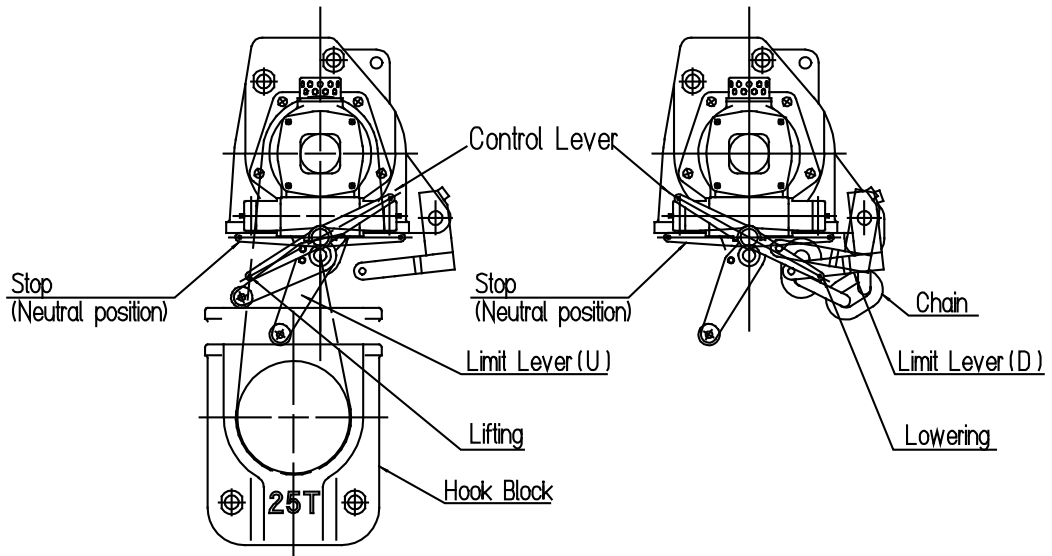
WARNING:

- At slow speed with no load on the hoist, check that the free chain wheel frame pushes the safety stopper up to making the throttle valve handle move to the neutral position stopping the operation of the hoist.

TNC-10TWALPE, C



TNC-25TWLPE, C



8. Test Operation





WARNING:


- Confirm there are no signs of malfunction by lifting and lowering the hoist without load.


BEFORE OPERATION


1. Piping

 **CAUTION;** Provide an air filter, regulator and line oiler near the hoist to ensure the performance level of the hoist. The recommended size is 1B (25 mm)


 **CAUTION;** Use 1B (25mm) Air Hose.
But if the length exceeds 10 meters, use a hose diameter which is one size larger prevent air pressure drop through the hose.

 **CAUTION;** Arrange a drain in the piping at the lowest point in the line and periodically drain the line.

 **CAUTION;** Before connecting the air hose to the hoist, always flush the air hose.
This procedure will prevent any foreign matter from entering the hoist.

 **CAUTION;** Before connecting the air hose to the hoist apply 10 drops of lubricating oil into the hoist. (This is to provide initial lubrication to the hoist)

2. Checking the operating air pressure

 **CAUTION;** The operating air pressure should be between 0.4-0.6 Mpa (4-6 kgf/cm²)
If the air pressure falls below 4 kg/cm² or above 6 kg/cm², this will affect the performance, lift and safety of the air hoist. As a result make sure the compressor pressure, volume and piping to the hoist is correct before operation. The recommended operating air pressure for the hoist is 6 kg/cm².

3. Lubrication



CAUTION:

- Lubrication to the motor; This will be provided from the line oiler connected in the line of the piping. The recommended amount is 10-15 drops/minute. (2-3 cc)
- Lubrication to the reduction gears is not necessary. When disassembling the hoist, apply new grease to these gears before re-assembly.
- If the chain lacks lubrication, apply lubrication periodically.

Lubrication

Name of Lubrication	Grade	Application	Lubricate
Turbine Oil	ISOVG32~56 Or Equivalent	Air Motor	Line Oiler & Chain

METHOD OF OPERATION

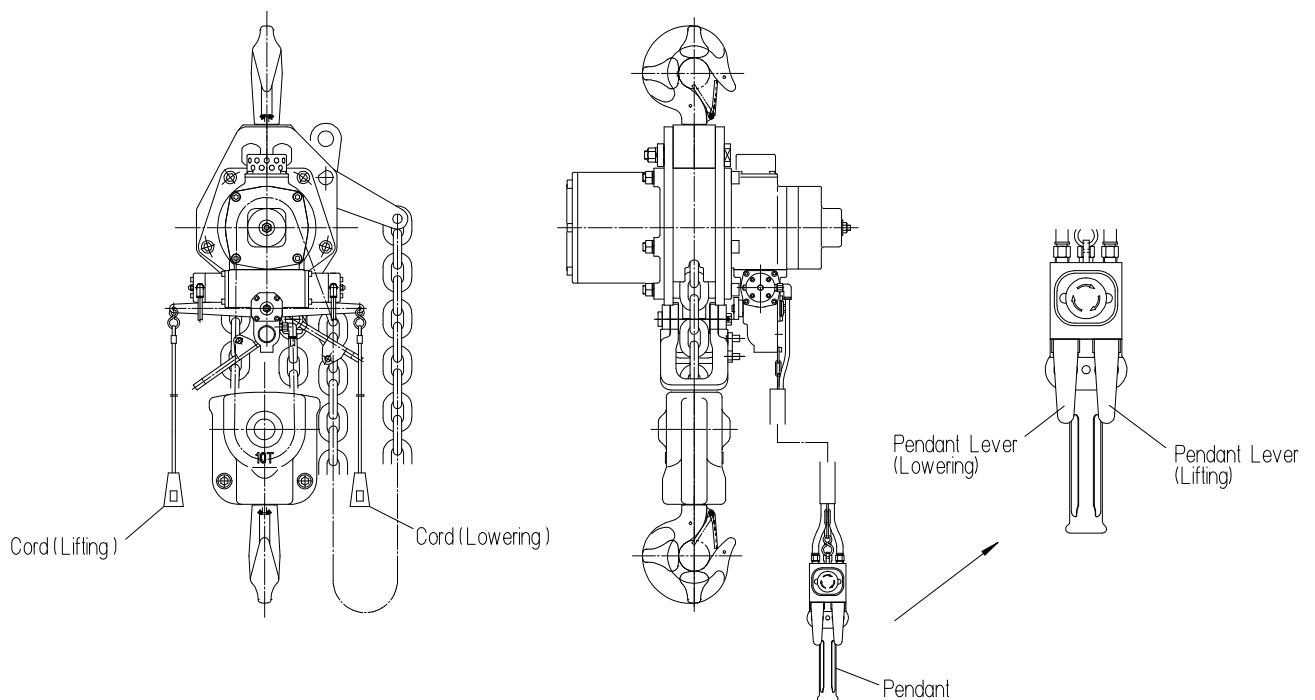
1. How to start and stop the hoist

TNC-10TWALC、TNC-25TWLC
By pulling the Cord the hoist will operate.

By releasing the cord, the hoist will Stop.

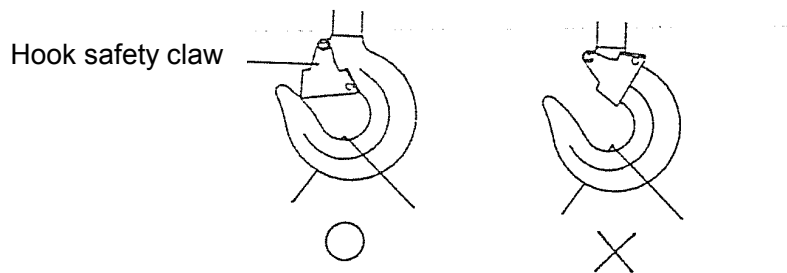
TNC-10TWALPE、TNC-25TWLPE
Pressing the Pendant lever will start the hoist.

Releasing the pendant lever will stop the hoist.



2. Starting and stopping the hoist;

- 2 – 1 When using a wire rope or sling chain, make sure the load is balanced before lifting the load.
- 2 – 2 Hook the wire rope or sling chain onto the swivel hook.
- 2 – 3 Confirm the Hook safety claw is locked into place.



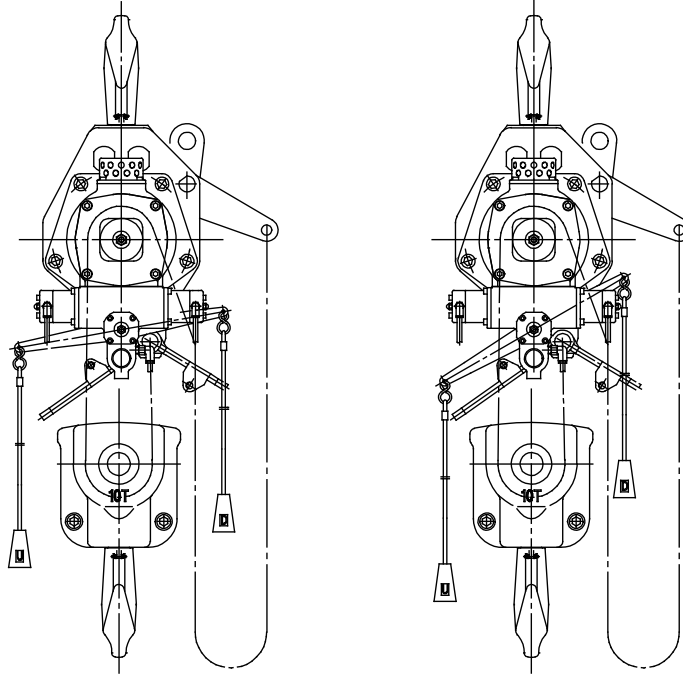
- 2 – 4 Operate the hoist slowly until the chain receives tension.
- 2 – 5 Confirm that the sling chain or wire rope are still in place.
- 2 – 6 If you see no problem lifting in the slow mode, continue lifting at the speed you prefer.
- 2 – 7 Lower the load on a stable area using the slow mode.
- 2 – 8 If the hoist stops during the lifting process, this is cautioning that the load has exceeded the rated load for the air hoist. It is necessary to cautiously proceed according to 2-7 instructions and lower the load back to ground and stop operation.
 - * This instruction is for TNC-10TALPE, C, TNC-25TWLPE, C Models only which includes the load limiter.

3. Adjusting the Lifting and Lowering speed.

TNC-10TWALC、TNC-25TWLC

Adjust the lifting and lowering speed by pulling on the cord control.

Pull only a little for slow speed and pull all the way down for high speed.



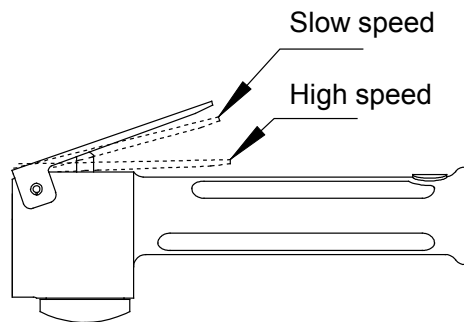
Slow speed

High speed

TNC-10TWALPE、TNC-25TWLPE

Adjust the lifting and lowering speed by pressing the pendant lever. .

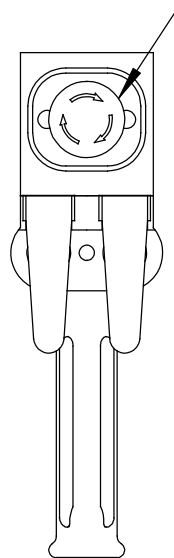
Press only a little for slow speed and press down fully for high speed.



4. Emergency Button; The Emergency button is offered on the TNC-10TWALPE and TNC-25TWLPE Models, in case an emergency condition occurs with the pendant during operation of the hoist. If the hoist does not stop when the pendant lever is released, the emergency button can be pressed to stop the hoist. By pressing the Red button in the middle, the hoist will stop. Also, by turning the Red knob in the clockwise direction the Emergency stop button will be released back to normal.

⚠ WARNING; When using the Emergency stop button, do not HIT the button.
Please press using your fingers.

Emergence Button



5. Adjustment of the Load limiter:

Offered on Models TNC-10TWALPE, C, TNC-25TWLPE, C;

Operation:

By error if the hoist is lifting a load which exceeds the rated capacity, the air hoist will automatically stop. This is a caution that the hoist is lifting an item which exceeds the rated capacity of the hoist.

If the load limiter activates, locate a stable area to lower the load and slowly lower the load to that location and stop using the hoist at that time.

In order to lift an exceeded load and then stop the hoist, it is necessary to safely lower the load. As a result when lowering the load the load limiter will not function.

⚠ WARNING; The TNC-10TWALPE, C, TNC-25TWLPE, C are equipped with a load limiter, but please note this is a warning device which is used as a last resort. Before lifting a load with the hoist, please confirm the load is within the rated capacity of the hoist.

Adjustment

⚠ WARNING; This load limiter must be adjusted according to the air pressure being used at the hoist. At the factory each unit is set at 0.6 Mpa and will operate within 125% of the rated load. If the hoist is being used at an air pressure other than this value, it is necessary to review the “ Adjustment method” section in the manual and proceed with the adjustments. Also, please note adjustments may also be needed depending on the piping size and length of the hose.

This load limiter operates by detecting the air pressure increase by the load limiter valve in the air motor and this eventually stops the lifting of the load.

If there is a difference in the air pressure at the time of set up and the actual operation of the hoist, the load limiter valve pressure activation point and the actual activation point will differ leading to problems such as “ not being able to lift a rated load for the hoist” or the “ load limiter not functioning during an overload situation” As a result it will be necessary to readjust the load limiter based on the actual operating air pressure.

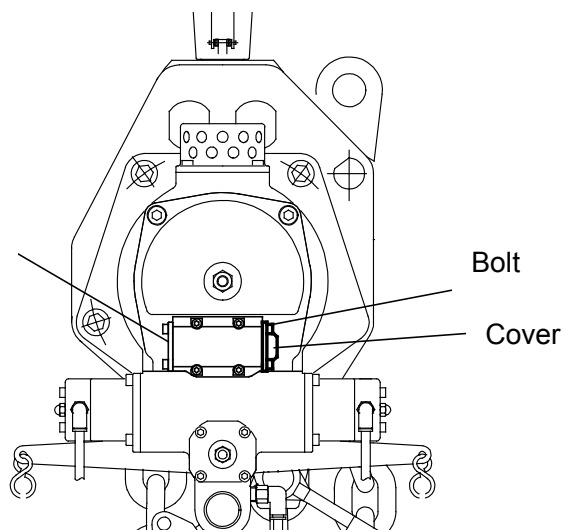
Method of adjustment;

⚠ WARNING; Prepare a safety net when work is needed in high places. It is important to obey all regulations when working in high places.

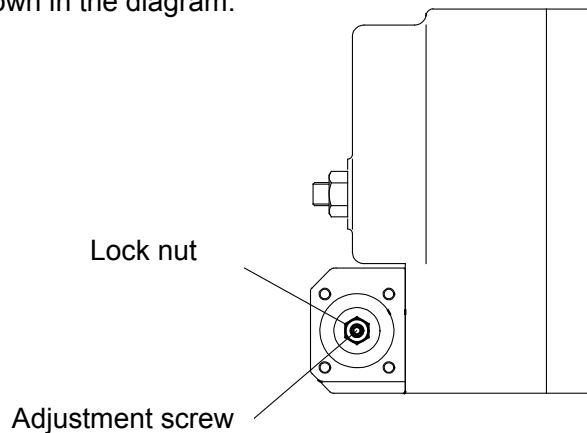
- a. Prepare the rated load.
- b. Set the operating air pressure (Pressure 0.6 Mpa (6 kgf/cm²))
- c. Remove the 4-bolts are shown in the diagram and remove the cover.

⚠ WARNING; DO NOT remove the cover on the other side. The internal parts may come out due to the high pressure at this location and it is very dangerous.

DANGER
DO NOT REMOVE THIS COVER



- d. Loosen the lock nut as shown in the diagram.

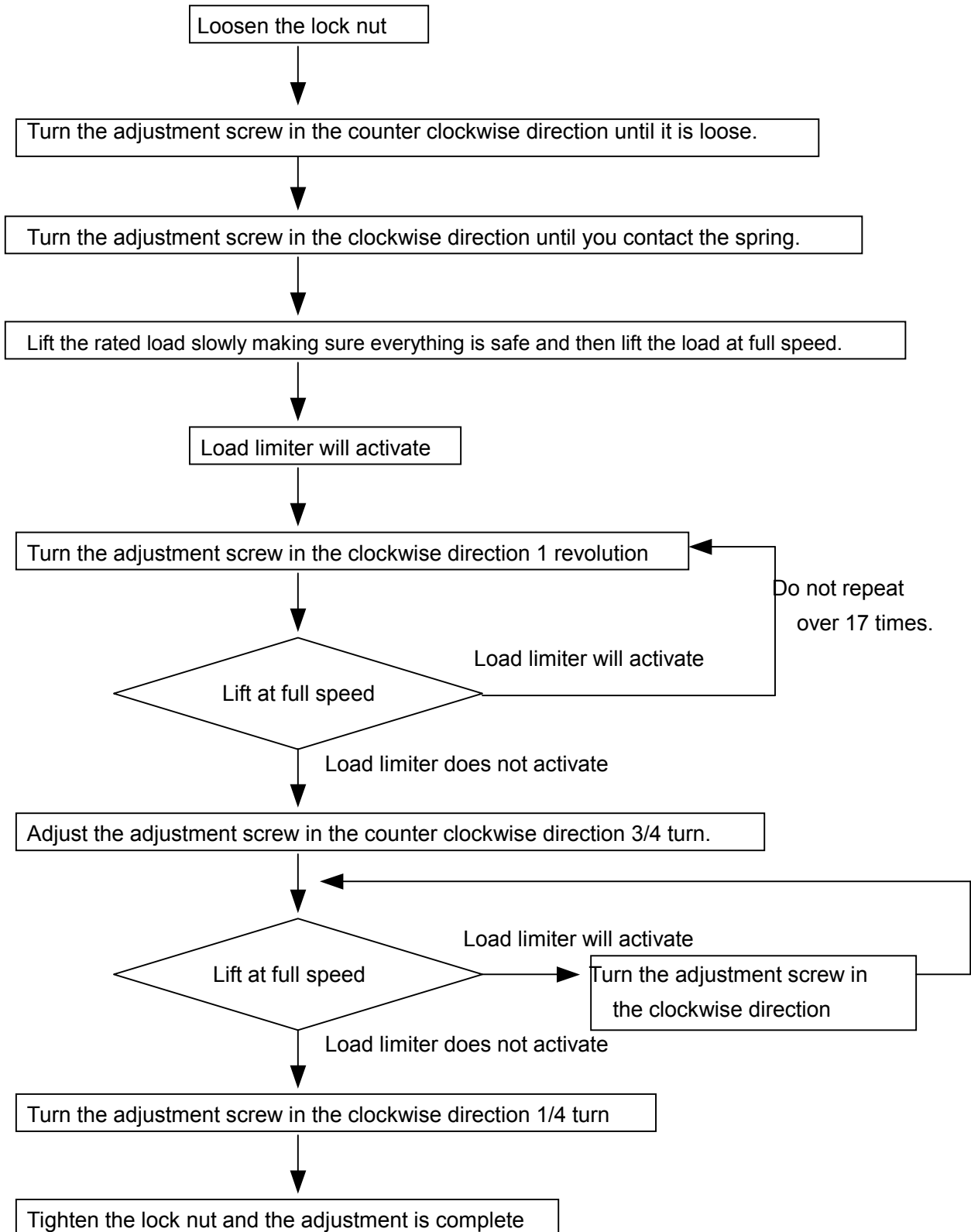


- e. As shown in the diagram, turn the adjustment screw in the counter clockwise direction until there is no resistance. Internally, this means the adjustment screw has separated from the spring.
- f. Using your fingers, turn the adjustment screw in the clockwise direction until resistance is felt. Internally this means that the adjustment screw has contacted the spring.
- g. As mentioned in the Operation Manual (2. Lifting and lowering the load) As shown in Pg. 16 in the manual, lift the rated load to confirm that it is safe. Then lift at full speed.
- h. At this time the load limiter will activate and the hoist will stop automatically.
- i. Turn the adjustment screw in the clockwise direction 1 turn.
- j. Repeat process g and i. until the load limiter does not function.

⚠ WARNING: Do not turn the adjustment screw more than 17 rotations after the adjustment screw contacts the spring. This will exceed the adjustment limit for the load limiter.

- k. After proceeding with process j., if the load limiter does not function (if the hoist does not automatically stop) turn the adjustment screw 3/4 of a turn in the counter clockwise direction and perform process g.
- l. After process k. if the load limiter functions properly turn the adjustment screw 1/4 of a turn in the clockwise direction, and perform process g. If the load limiter does not function, proceed with process n.
- m. Perform step l repeatedly until the load limiter does not function.
- n. When you locate the position when the load limiter no longer functions, turn the adjustment screw 1/4 turn in the clockwise direction.
- Review the load limiter flow chart on the next page.
 - **Reference:** Turn the adjustment screw about 2 revolutions in the counter clockwise direction when the air pressure is reduced by 0.1 Mpa.

LOAD LIMITER ADJUSTMENT FLOW CHART



MAINTENANCE AND INSPECTION



WARNING:

- To operate the hoist safely, it is necessary to inspect the hoist regularly. When the hoist is in use, obey the regulations in the safety standards and perform the following inspections.

★DAILY INSPECTION

- 1 . Inspection of the air pressure and oil.
Confirm hoist can operate between 0.4-0.6 MPa. Also make sure the line oiler is operating correctly. If oil lacks to the motor, this will lead to early wear of the motor parts.
- 2 . Inspect the hook and hook claw;
If the hook is unable to rotate the chain may become twisted and the load may rotate leading to danger.
- 3 . Is the chain lubricated
The chain may wear prematurely if it is not lubricated properly.
- 4 . Does the hoist operate smoothly without abnormal sounds?
Stop the hoist if you hear any abnormal sounds coming when the hoist is operating.

★MONTHLY INSPECTION

- 1 . Inspection of the chain (For damage and elongation)
Inspect the chain according to the maintenance manual.
If the chain is out of tolerance, stop operation and replace the chain.
This may lead to breakage and is dangerous.
- 2 . Check if the brake is operating correctly.
Check the operation of the brake. If the load slips contact your dealer or distribution for repair. It is dangerous to continue the use of the hoist in these conditions.
- 3 . Inspection of the hook
Inspect the hook for damage, deformation, non-rotation and also conform the safety claw operates properly. Concerning the shape of the hook, review the maintenance chart for dimensions (L) and (H). If these areas exceed the recommended amount, it is dangerous to use. Replace with a new one.
- 4 . Inspect for loose bolts and nuts
It is dangerous to use the hoist with loose bolts or nuts. And this may cause

damage to the other areas of the hoist.

5. Inspect the limiter mechanism

Check the limit mechanism for both lifting and lowering of the hoist. Make sure the limiter operates properly using no load.

6. Inspect for cracks or danger on the hoist

Confirm you have no cracks or damage on the hoist. Do not operate the hoist if you find a crack or any damage on the hoist. Contact your dealer immediately.

★ANNUAL INSPECTION

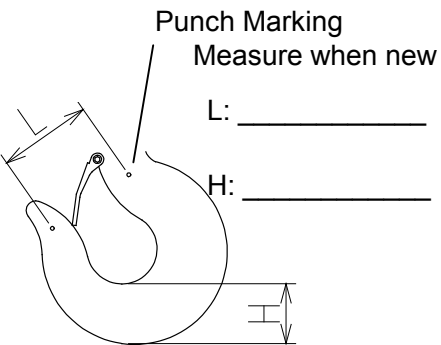
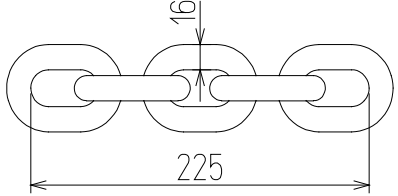
Contact your dealer or the manufacturer for the annual inspection of your hoist.

INSPECTION AND TEST RESULTS

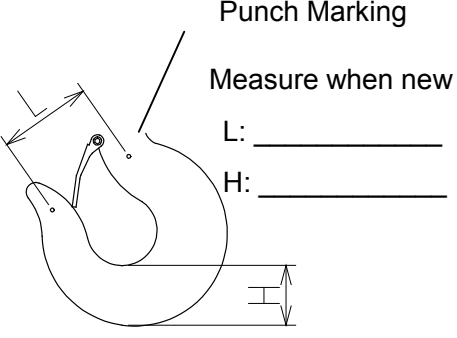
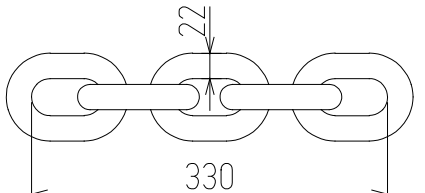
- ★When using the hoist with a trolley, according to the crane safety regulations, it is necessary to have a monthly and annual inspection of the equipment and this information must be recorded and kept for a minimum of 3 years.
- ★When using the hoist and trolley together it is necessary to report this equipment to the government authorities.

TNC-10TWA

MAINTENANCE CHART

PART	BASIC DIMENSIONS	CONDITIONS FOR REPLACEMENT
Hook	 <p>Punch Marking Measure when new</p> <p>L: _____</p> <p>H: _____</p>	<ul style="list-style-type: none"> * When the opening of the hook exceeds $L + 2\text{mm}$, replace the part. * Lower hook height; Replace part when $H - 1\text{mm}$. * When the hook cannot be easily rotated. In this case repair or replace * Make sure the safety latch works properly
Link chain	 <p>16</p> <p>225</p>	<ul style="list-style-type: none"> * Replace chain when the length of 5 links exceeds 228.5 mm or when the chain wire diameter becomes less than 15.5 mm * Replace the chain if damaged.

MAINTENANCE CHART

PART	BASIC DIMENSIONS	CONDITIONS FOR REPLACEMENT
Hook	 <p>Punch Marking</p> <p>Measure when new</p> <p>L: _____</p> <p>H: _____</p>	<ul style="list-style-type: none"> * When the opening of the hook exceeds $L + 4\text{mm}$, replace the part. * Lower hook height; Replace part when $H - 2\text{mm}$. * When the hook cannot be easily rotated. In this case repair or replace * Make sure the safety latch works properly
Link chain		<ul style="list-style-type: none"> * Replace chain when the length of 5 links exceeds 333.8 mm or when the chain wire diameter becomes less than 21.5 mm * Replace the chain if damaged.

METHOD OF PUTTING THE CHAIN INTO THE HOIST

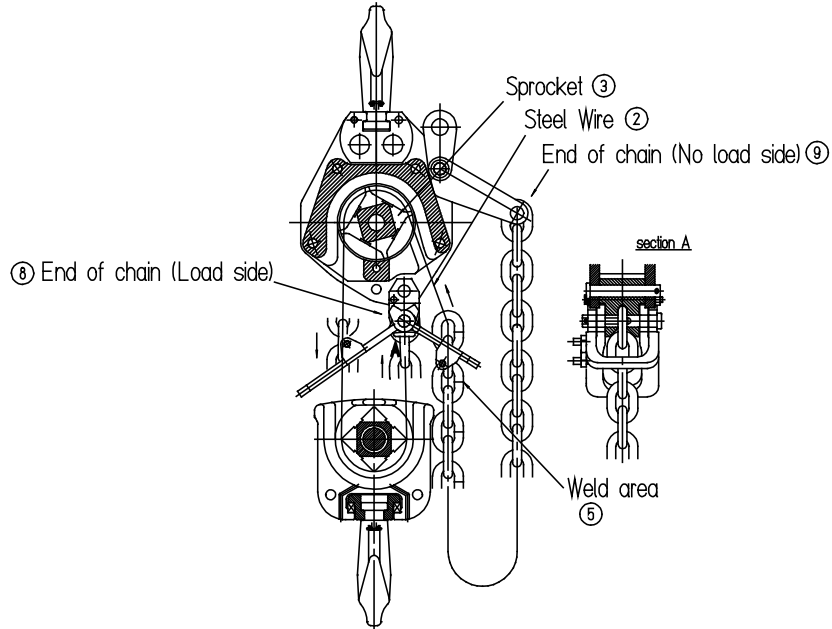
Since putting the chain into the hoist required some technical skill, we recommend that the chain is put into the hoist by a certified hoist service center.

If the user wishes to put the chain into the hoist, carefully follow the instructions below;

- ① Prepare the chain (Use genuine Toku chain)
- ② Hang the hoist up, and tie a wire to the end of the chain.
- ③ Start the hoist move the chain sprocket to the position shown in the diagram.
- ④ Thread the wire into the chain sprocket opening.
- ⑤ Pull the wire so that the vertical link on the chain enters the sprocket on both sides.
Make sure the chain contacts each sprocket. At this time, make sure the welded area of the chain is facing out.
- ⑥ Pulling on the wire, slowly operate hoist (In the lowering direction) and let the chain slowly move around. At this time make sure the chain does not get caught between the sprocket and the chain guide area.
- ⑦ Make sure the chain does not become twisted as shown in the diagram.
- ⑧ Remove the wire from the chain and assemble the end of the chain to the load side connection area and secure using the bolt. Make sure the chain is not twisted when assembling the bolt.
- ⑨ Secure the end of the chain to the “ non-load “ side. Make sure the chain is not twisted when assembling the bolt.

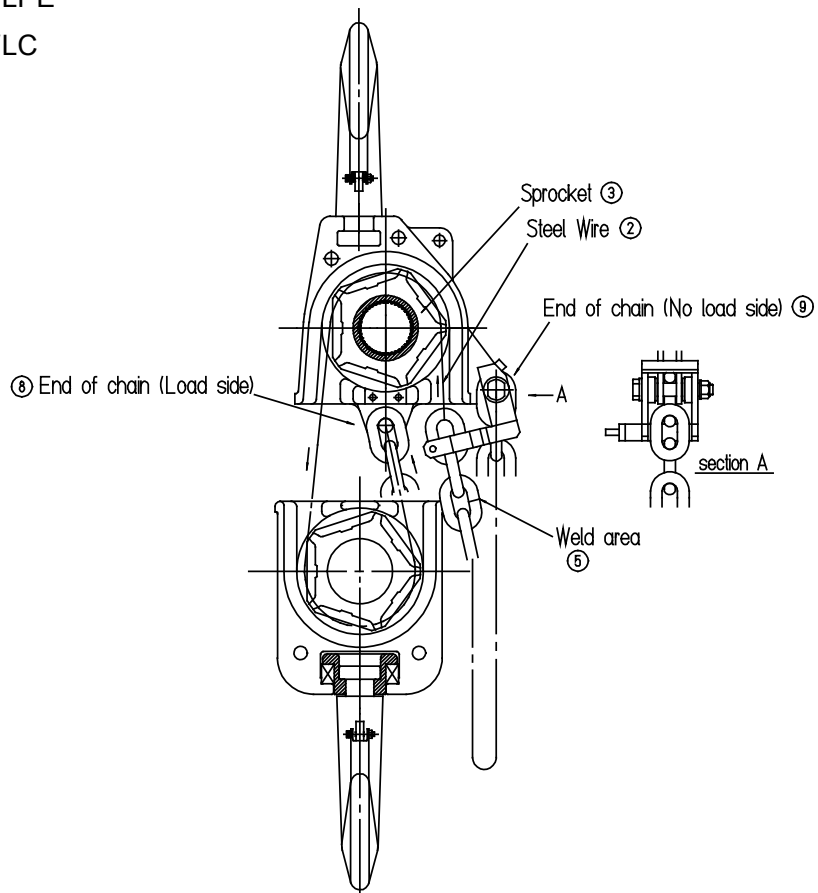
TNC-10TWALPE

TNC-10TWALC




TNC-25TWLPE

TNC-25TWLC



TROUBLE SHOOTING

 **WARNING** ; If the hoist needs to be dis-assembled and repaired, please bring the hoist to a service shop or the dealer.

PROBLEM	CAUSE	COUNTERMEASURE
Does not operate	* Lack of Air pressure	* Adjust the air pressure
	* Valve is rusted	* Repair at service facility
	* Problem with motor	* Repair at service facility
	* Seizure of brake	* Repair at service facility
Lifting speed is slow	* Lack of Air pressure	* Adjust the air pressure
	* Hose size is small	* Check hose size (See chart)
	* Malfunction with brake	* Repair at service facility
	* Problem with motor	* Repair at service facility
Unable to lift rated load	* Lack of Air pressure	* Adjust the air pressure
	* Problem with motor	* Repair at service facility

CUSTOMER MEMO

Record information such as the distributor name, model number and serial number. It will be of good use when you bring the unit in for servicing.

Date of Purchase	Distributor Name
Model	
Serial Number	

This is a high precision manufactured product. As a result if the unit does not work Operate properly do not attempt to repair the unit. Contact Distributor. Also, if parts are needed of if you have any questions about how the unit please do not hesitate to contact



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