000 GARAGE GEAR

INSTALLATION GUIDE/ OWNERS MANUAL



JGG-50CF 5000KG 2 POST CLEAR FLOOR HOIST

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TECHNICAL SPECIFICATIONS

Description	Metric (mm) (kg)
Lift Capacity	5000kg
Max Rise from the ground- No extension blocks	1815mm
Lifting Range	1705mm
Lowest Clearance from the ground- No extensions	110mm
Narrow Drive-Thru Clearance	2305mm
Narrow Width Inside of Columns	2875mm
Medium Drive-Thru Clearance	2455mm
Medium Width Inside of Columns	3025mm
Wide Drive-Thru Clearance	2605mm
Wide Width Inside of Columns	3175mm
Front Arm Reach	492 to 1063mm
Rear Arm Reach	948 to 1529mm
Overall Height	4275mm
Width Arms Open Symmetric Setting	3101mm
Width Arms Asymmetric Setting	2099mm
Width Arms Centered	875mm

CONCRETE FOUNDATION SPECIFICATIONS AND REQUIREMENTS

2-Post Hoist 5000kg. 125mm Min. Thickness / 32MPa, RL1018 mesh.

Safe Operating Temperature is between 4°C - 41°C.

OWNER /INSTALLER RESPONSIBILITIES: DO NOT PROCEED WITHOUT READING THIS MANUAL

It is vital that you carefully read and fully understand all **ASSEMBLY INSTRUCTIONS** before installing this product. Failure to follow the safety rules and basic safety precautions described and presented in this manual may result in serious personal injury including death.

If you have any questions or experience problems, please call our Customer Support department on **1800 563 574**, Monday-Friday. 8.30 a.m.- 4.30 p.m. Melbourne Time.

All repairs are only to be performed by authorised or qualified technicians.

By proceeding you acknowledge and agree that you will fully comprehend and understand the contents of this manual.

IMPORTANT INFORMATION:

WARNING: Do not allow other people to assemble this product until they have read this manual and have developed a thorough understanding of how the product works.

The JGG-50CF, 2 Post Clear floor Hoist (rated at 5000kg's) is designed for indoor use only and should not be installed in a pit or on an uneven surface. The floor on which the hoist is installed must have a minimum thickness of 125mm concrete substrate, reinforced with steel (RL1018) mesh with a minimum compressive strength of 32MPa. (If you are unsure of this requirement, we strongly recommend you contact your builder or architect for information before installing on pre-stressed concrete.)

This hoist has specific electrical and physical height requirements as described in the installation section of this manual. Failure by the owner to provide and meet the recommended shelter, mounting surface, electrical supply, and ceiling height can result in unsatisfactory hoist performance, property damage, personal injury or both. Failure to comply with these basic requirements will void any warranty on the product.

SHIPPING DAMAGE/MISSING PARTS CLAIMS

Any freight damage or lost parts (where visible) must be noted on the freight bill before signing off and must be reported to Joel's Garage Gear to establish a freight claim. When unpacking the product carefully check that all components are provided – refer to the complete parts list provided at the end of this manual. If shortages are discovered, please contact Joel's Garage Gear immediately with a missing part/s list.

LIMITATION OF LIBILITY

The **manufacturer and Joel's Garage Gear** are not and will not be held responsible for any liability for loss, damages of any kind expressed or implied, injury, and or damage to your property or otherwise caused by improper installation, use of this product or neglect on your or the operators' actions.

PRODUCT WARRANTY

WHAT IS NOT COVERED BY THE PRODUCT WARRANTLY

- Any failure that results from owner/operator abuse, neglect or failure to operate, maintain or service product in accordance with instructions provided in the owner's manual.
- Any damage caused by overloading lift beyond rated capacity.
- General service on a regular basis is required to maintain the product, i.e. lubricants, oil, etc.
- General wear-n-tear of parts such as rubber pads, etc. unless wear or failure is a direct result of manufacturer defect due to material and/or workmanship.
- Any failure caused by installing or operating lift under conditions not in accordance with installation and operation guidelines or damaged by contact with tools or surroundings.
- Motor or pump failure caused by exposure to moisture/water, excessive humidity, corrosive environments or other contaminants.
- Rusted components due to improper maintenance or corrosive environments.
- Cosmetic defects that do not interfere with product functionality, such as scratched paint.
- Damage due to incorrect voltage or improper wiring.
- Any incidental, indirect, or consequential loss, damage or expense that may result from any defect, failure or malfunction of the product.

INSTALLATION TOOLS REQUIRED:

Please ensure you have all the necessary tools and equipment listed below to successfully complete the installation. We recommend that you use safety protective clothing and eyewear when installing the hoist.

- 8m. Measuring tape
- Chalk line and chalk or equilivent
- Heavy duty metal wire cutters
- 1mtr. Crowbar
- Full set of metric wrenches and ratchet set
- Full set Imperial wrenches and ratchet set
- Full set metric and Imperial Allen keys
- 30mm Socket and Calibrated Torque Wrench
- Hammer
- Rubber mallet
- Phillips screwdriver

- Flat blade screwdrivers
- Snap ring pliers.
- 2 x 4mtr. Step ladders
- 1m. Sprit Level
- Rotary hammer drill
- 20mm diameter masonry drill bit
- Lifting devices such as a crane or forklift*
- 100mm x 100mm wooden blocks (use for unpacking)
- Gloves
- *Additional help if no lifting devices available

PRE-INSTALLATION PROCEDURES

Before installation, check and confirm the following:

SELECT LIFT LOCATION:

Always use architects building plans when available. Check layout dimensions against floor plan requirements making sure that adequate space is available on both the sides and in height.

FLOOR REQUIREMENTS:

The hoist should be located on a level floor with less than **3 degrees' slope**. If unsure, consider a survey of the proposed location and/or the possibility of pouring a new level concrete slab. This hoist can only be installed on a concrete floor which conforms to the specifications detailed in this manual. Columns are supported only by anchoring to concrete floors. Failure to do so could cause personal injury or death. **DO NOT INSTALL** the hoist on asphalt. **DO NOT** locate this machine in a recessed area or below floor level. **ALLOW FOR PROPER DRAINAGE**.

CEILING REQUIREMENTS:

The area where the hoist will be located should be free of overhead obstructions such as heaters, building supports, electrical lines, etc.

DEFECTIVE CONCRETE:

Visually inspect the site where the hoist will be installed and check for cracked or defective concrete. If the proposed location is in question, **DO NOT INSTALL THIS HOIST**. If you have any questions and concerns with the hoist location selected contact your local builder or architect. (*Note - A qualified person should be consulted to address seismic loads and other local or state requirements*)

JOEL'S GARAGE GEAR WILL NOT BE HELD RESPONSIBLE OR LIABLE FOR ANY CONCRETE THAT MAY OR MAY NOT MEET SLOPE REQUIREMENTS. IT IS COMPLETELY THE OWNER'S RESPONSIBILITY TO ENSURE THAT THE CORRECT SUBSTRATE FLOORING IS TO THE REQUIRED SPECIFICATIONS. JOEL'S GARAGE GEAR WILL NOT BE RESPONSIBLE FOR ANY CHARGES RELATING TO NEW CONCRETE SLABS POURING, LEVELING OR DAMAGE

HOIST LOCATION LAYOUT

Before any installation can occur, we recommend first completing a layout of the hoist location. The 5000kg hoist offers three different width configurations. Select from the following.

- Wide 2605 floor opening at base, 3175 from column to column [internal width]
- Medium 2455 floor opening at base, 3025 from column to column [internal width]
- Narrow 2305 floor opening at base, 2875 from column to column [internal width]

IMPORTANT NOTE – The Wide setting is not recommended as most vehicles cannot be lifted on the wide setting.



Based on the above sizing's the maximum bay size required (that is free unobstructed space) to install is 7400mm [L] x 3960mm [W] x 4265mm [H]

LAYOUT THE INSTALLATION AREA.



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Using a measuring tape, start at one corner of the proposed area and mark a line 3960mm [1] long. Typically this is across the entrance to the bay. Working from the same start point, draw a line 90 degrees to the first line 7400mm [2] long down one side. Mark another 7200mm line [3] also at 90 degrees to the first line. At the end, draw another 3960mm [4] line that joins the two 7400 lines to complete a rectangle on the floor.

Typically, the hoist will sit in the centre of the 7400mm length. To make the centre point, measure 1980mm [5] down the entrance line and on the same on back line [4] and join the two together, creating a line down the centre of the rectangle. Next measure and mark each side of the 7400 lines at 3700 [6] and draw a line down, crossing over the centre line which will create the centre point.

From the centre point, measure out half the distance each side of the centre line based on the bay width selected. (**Wide** at 3910mm so 1955mm from ctr [7], **Medium** at 3760mm so 1880mm from ctr [8] and **Narrow** at 3610mm so 1805mm from ctr [9]) (There should then be a 25mm gap between the end of the centre line and the edge [10] at the widest point). Based on the size required, these are the position/s where the hoist column uprights will be located.

IMPORTANT AND GENERAL INFORMATION FOR EXPANSION ANCHORS

General Instructions for Installing Concrete Anchors

These general instructions for the installer are provided to ensure the proper installation of Expansion Anchor Products.

- The Concrete substrate shall have compression strength of at least 32MPa using RL1018 mesh and a minimum thickness of 125mm.
- A minimum distance of 200mm must be maintained from any slab edge or seam. Hole to hole spacing should be a minimum 165mm in any direction. The hole depth should be a minimum of 110mm.
- Each anchor must be seated to a minimum depth of 85mm. **NOTE**: If the top of the anchor exceeds 55mm above the floor the anchor depth is not deep enough, which will cause the anchor to fail.
- Do not modify or change Mechanical Wedge Anchor products. The manufacturer will not warrant or guarantee the performance of any modified products which will void the product warranty.
- Do not alter installation procedures from those set forth in this Manual.
- Drill holes for mechanical anchors with carbide-tipped drill bits that meet the diameter requirements of ANSI B212.15. A properly sized hole is critical to the performance of mechanical anchors.
- Rotary-hammer drills with light, high frequency impact is recommended for drilling holes.
- Do not use excessively worn bits or bits which have been incorrectly sharpened.
- Please note that the use of oversized holes is NOT permitted for anchoring any lift. DO NOT USE Anchor Adhesive
 to fill spacing of oversize holes. Move lift location and Re-drill to correct hole Specification.
- Do not disturb, bolt up, or apply load to adhesive anchors prior to the full cure of any adhesive.
- Metal anchors and fasteners will corrode and may lose load-carrying capacity when installed in corrosive environments or exposed to corrosive materials. There are many environments and materials which may cause corrosion including ocean salt air, fire-retardants, fumes, fertilizers, preservative-treated wood, dissimilar metals, and other corrosive elements.

EXPANSION ANCHOR INSTALLATION INSTRUCTIONS 20mm X 140mm

Anchor size is same as drill bit size 20mm.

Use a hammer drill with a Carbide tip, 20mm diameter, solid drill bit. The bit tip diameter should be to ANSI Standard B95.12-1977. 2003 and 2006 IBC compliant high-performing medium-duty expansion anchor.



CAR LIFT DIMENSIONS

Take note of the sizes of the internal opening of the hoist. You must account for the arms at the base which will narrow the opening. The following identifies the sizing of the bay area at the base on the hoist. This is the distance that will be available to drive the vehicle through.

WIDE has a floor opening of 2605mm at the base. [Note this size is not recommended and will greatly reduce the types of vehicles the hoist can lift.)

MEDIUM has a floor opening of 2455mm at the base.

NARROW has a floor opening of 2305mm at the base.





CAR LIFT GENERAL ASSEMBLY COMPONENTS



INSTALLATION PROCEDURE

If you are installing this hoist as a DIY install, it is strongly recommended that you have at least one other person as extra help or have heavy duty lifting equipment when unloading and assembling the hoist. Never attempt to lift components without proper lifting tools such as sling bands, forklift or crane. Be aware and stay clear of any moving parts that can fall and cause injury.

UNPACKING THE HOIST

- When unloading the hoist, place it as near as possible to the intended installation location.
- The power unit is located on the top and should be unpacked first. **Note:** The power unit is heavy, be careful not to drop the power unit. Place the power unit aside out of the way.
- Start by first removing the shipping bands and packing materials from the hoist. Open the wrapping, remove the parts and parts boxes from the packaging.
- Using the parts list contained check that all parts are accounted for. If **any parts are missing**, please advise Joel's Garage Gear immediately.
- Unbolt the structure from the shipping brackets. (Where available use proper lifting devices, cranes or a forklift to lift off shipping brackets.)

SET EQUALIZER CABLE WIDTH LENGTH

The 5000kg hoist offers three different width configurations. They include.

- Wide 3175mm from column to column [internal width]
- **Medium** 3025mm from column to column [internal width]
- **Narrow** 2075mm from column to column [internal width]

To set the **Equalizer Cable length** determined which opening size configuration will work best. If a **Medium** size opening is required refer to the **Medium Width equalizer** instruction below.

IMPORTRANT NOTE – The wide width option should only be selected if the vehicle is the size of a Hummer or above. A wide width configuration **CAN NOT LIFT A NORMAL SIZE CAR OR VAN**

CABLE WIDTH CONFIGURATIONS



EXAMPLE

Use the Cable Extensions provided to extend the equalizer cable as required. There are four [4] cable extension fittings each measuring 125mm each.

To extend the cable to fit the 'wide' width, two [2] cable extension fittings must be joined together and then attached to the cable as shown in the diagram.



COLUMN EQUALIZER CABLE INSTALLATION



Next, remove the bottom sheave so the cable will seat, wrap cable around sheave and replace sheave with cable. Re-install after cable has been routed. [5]

Push the equalizer cables up through the bottom of the carriage. The cable must run through that front hole on the same side and out the top of the carriage. Wrap the remaining portion of cable inside column.



INSTALL THE SAFETY CABLE BRACKET ON BOTH COLUMNS.



INSTALL THE CROSSOVER BEAM PLATE CONNECTION.



INSTALLING THE COLUMNS

Using the line template created earlier, raise the columns and position each column facing each other. Pay particular attention to the column position. Double check each column is placed in the right position.



To secure the columns, work from the left-hand side first. Position the left-hand side column in the previously marked location and mark the holes using the column base plate as a guide.

Using a hammer drill, carefully drill out the centre hole **only** using the base plate as a guide [10]. To install the expansion anchor, place a flat washer and hex nut over threaded end of the 20mm x 140mm anchor, and screw down the nut leaving approximately 2mm of thread exposed above the nut. Carefully tap the anchor (use a hammer and a block of wood) until it is well seated in the hole with the nut and flat washer against base plate.

Do not damage threads. Do not overly tighten the nut at this stage. Place the other column in the position marked out but do not drill any anchor points till after the crossbeam has been installed.



DRILLING FOR EXPANSION ANCHORS.

CAUTION: Anchors must be at least 200mm from the any edge of the slab or any seam.

- Use only the recommended bit size (20mm) and type masonry. •
- Keep the drill in a perpendicular line while drilling. .
- Let the drill do the work. Do not apply excessive pressure. Lift the drill up and down occasionally to • remove residue to reduce binding.
- Drill the hole to a depth equal to the length of anchor. **Note:** Drilling all the way through the concrete will . allow the anchor to be driven through the bottom of foundation.
- After drilling blow the dust from the hole. •

OVERHEAD CROSSOVER BEAM



Crossbeam Syncronizer Assembly

ASSEMBLE THE OVERHEAD CROSSOVER BEAM

Begin by first attaching the Limit Switch to the Switch bracket using 2 x M4 x 12mm and 2 x M4 x 25mm screws. Next connect the Switch bracket to the overhead cross beam (in the holes provided) using 2 x M12 x 25mm bolts with 4 x M12 washers, top and bottom and two M12 nylon lock nuts	MI225mm HHCS WI225mm HCS WI225mm HCS WI255mm HCS WI255m
At the other end of the overhead crossbeam connect the Safety Tube Bar Bracket using 1 x M12 x 25mm bolt, with 2 x M12 washer and single M12 lock nut. Install the crossbar tube by first inserting it into the Switch Bracket at the other end, then using a M8 x 45mm bolt a M12 washer followed by an M12 spring washer and M12 nut to fasten the crossbar tube.	M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher M12 Wosher
Completed Crossbeam Assembly	To e : .

INSTALL THE OVERHEAD CROSSOVER BEAM.

To install the crossover beam, using a tape measure, measure from the back corner of the column base to the opposite back corner to ensure columns are inline and square. (Refer to the layout guide) After confirming dimensions, install the Overhead Crossbeam by raising it on to the column and lining it up to the Assembly Attachment Crossbeam mounting points.

Make sure to use proper lifting devices (cranes, forklift, etc..), or USE HELPERS with ladders to install crossover beam.

Use extreme caution when installing the crossover beam. CROSSBEAM IS TOP HEAVY. Use 3 x M10 x 30mm bolts with 2 x M10 washers per bolt, and a M10 nylon locking nut. Tighten the hardware once the installation of the overhead crossbeam is complete.

All hardware must be installed from inside of the crossbeam facing out. This is to avoid interference with the cables and pulleys when operating the hoist.

Completed installation of the Cross beam to the side columns.



INSTALLING EXPANSION ANCHORS AND LEVELING THE COLUMNS

With the crossbeam now installed,

- Using a spirit level, check the columns are both plumb. If the column is not plumb, using the horseshoe shims provided, shim the column base as required until each column is plumb. If one column has to be elevated to match the plane of the other column, add shim plates. Shim thickness **MUST NOT** exceed 12.5mm when using the 140mm long anchors provided with the lift.
- Once the columns are both plumb and in position, complete the installation of the remaining anchor bolts by drilling the remaining holes on both posts. Use the base plate as a template for drilling the holes. We recommend drilling a single hole first in the opposite column that contains no anchor and insert a single anchor. This will stabilize the column making it safer to drill the additional holes on both sides.
- When installing the expansion anchors, like previously instructed, place a flat washer and hex nut over the threaded end of 20mm x 140mm anchor, leaving approximately 2mm of thread exposed carefully tap anchor (use a hammer and a block of wood). Do not damage threads. Tap anchor into the concrete until nut and flat washer are against base plate.



- Tighten the nuts on each bolt two or three turns. Check each anchor bolt with a torque wrench set to 150Nm torque. Re tighten the expansion anchors several hours after the initial installation. The anchors should be checked weekly to make sure they are properly affixed.
- **ATTENTION:** Mechanical anchors require a specific installation torque: Failure to apply the recommended installation torque can result in excessive displacement of the anchor under load or premature failure of the anchor. These anchors will lose pre-tension after setting due to pre-load relaxation.
- If anchors **do not tighten to 150Nm**. installation torque, replace the concrete under each column base with a **1.2m x 1.2m x 125mm thick 32MPa minimum concrete pad** keyed under and flush with the top of existing floor. Allow concrete to cure before installing lifts and anchors (typically 28 days).

RUNNING THE EQUALIZER CABLES



INSTALL NON-POWERSIDE SAFETY LATCH SYSTEM.



INSTALL POWERSIDE SAFETY LATCH SYSTEM.



INSTALL AND ROUTE THE SAFETY CABLE



INSTALL NON-POWERSIDE SAFETY COVER.

Install the Non-Powerside Safety Cover

Aline the Non-Powerside Safety Cover to the predrilled holes on the column and affix it using $4 \times M8 \times 12$ mm bolts.



INSTALL THE POWER SIDE SAFETY COVER.



INSTALL THE POWER UNIT

Install the power unit on the Powerside column bracket mount using the four (4) x M10 x 20mm with M8 washers and M8 nylon lock nuts.

Tighten the locking nuts so that the power unit does not move in any direction._

Note. Power Unit can only be fitted to the right-hand side of the hoist. Above the straight (Rear) arms.

Fitting the short (Front) arms on the Power Unit side WILL damage the Tank.



INSTALL THE HYDRAULIC SYSTEM HOSES

The hoist hydraulic system runs a hydraulic line between each hydraulic cylinder, which connects to the Power Unit as shown in the routing image to the right.

There are three (3) hydraulic lines of different lengths. They include. 1 x 9130mm (Long) 1 x 1110mm (Medium) 1 x 260mm (Small)

For the Medium width configuration a single "hydraulic hose extender" will be required on the Power side connected above the T-fitting.

For the Wide width configuration two [2] "hydraulic hose extenders" are required on the Power side connected above the T-fitting.







CONNECT ELECTRICAL TO THE POWER UNIT;

🛛 🗥 WARNING: A certified electrician must install all electrical wiring. Each circuit should have protection with a time delay fuse or circuit breaker. A commercial licensed electrician is recommended to understand the circuitry of the hoist and complete the electrical works.

Minimum requirements required include,

- A 20Amp dedicated circuit with a D curve Breaker. ٠
- An isolator switch mounted close to the hoist location. •

Lock Out (disconnect) electrical supply before installing any electrical components or performing maintenance on the lift. Do not ever allow power supply to be connected when working on or repairing lift.

INSTALLING LIFT ARMS





Fold the arms inwards to avoid hitting the power unit.

Without any weight on the hoist, raise the cylinders 500mm off the ground just high enough to clear locking mechanisms. Slowly loosen the bleed screws located at the top of each cylinder. (One or two turns should be all that is needed to remove the air). DO NOT REMOVE BLEED SCREW COMPLETELY. Listen for air to release and watch for clean fluid to escape from each cylinder then tighten.

Continue to raise the cylinders to full height and lower the lifting carriage to an unlocked position 500mm off the ground. Slowly loosen the bleed screws located at the top of each cylinder. (One or two turns should be all that is needed to remove the air). DO NOT REMOVE BLEED SCREW COMPLETELY. Listen for air to release and watch for clean fluid to escape from each cylinder. Repeat steps if air is still in the cylinder.

NOTE: If cylinder continues to shake or vibrate when lifted or lowered repeat steps until trapped air is removed from cylinders. (Use a ladder for safety.)



SYNCHRONIZING EQUALIZING CABLES AND LOCKS

With no weight (load) on the hoist, cycle it up and down several times to ensure the safety latches engage properly and all air is removed from the hydraulic system.

To lower the hoist, first raise the hoist to clear the safety latches, then pull down the safety release handle to disengage the locks.

Re - raise the hoist and LISTEN. You will hear the lock latches begin to hit and release as the hoist is being raised.

After 3 or 4 clicks you will hear the latches synchronizing at the same time. If the safety latches are out of synchronization, you will have to synchronize the equalizing cables on the hoist

Synchronizing cables

If safety latches are out of sync, adjust the cable on the latch that engages first. To adjust, tighten the **Long Cable End** Terminal on the latch that is engaging first. This could be either the Powerside or Non-Powerside Posts.

The safety lock latches and cables should now be synchronized.

CAUTION

Equalizing Cables Important Notice:

Equalizing Cables must be checked with each daily inspection. The tension should not exceed 25mm of tension slack. Failure to keep cables synchronized could cause an uneven lift which could result in the vehicle falling off the hoist.

Equalizing cables should always be maintained so the safety latches are in sync with the safety locks. Always check that both safety latches are engaging on the appropriate latch.





Lubricate the four inside corners of the columns with heavy duty bearing grease

The last task is to complete **Post Installation Procedure**.

POST INSTALLATION PROCEDURE:

✓ Check boxes to verify work has been completed.

Verify columns are properly shimmed and plumb
Check that expansion anchors are tightened to 100 ft. lbs. torque
Roll pins / sheave pins / hardware / fasteners properly attached and torqued
Lifting carriage gear restraints securely fastened
Electrically wired by a professional technician
Equalizing cables and safety latches in synchronization
Safety latches functioning properly
Check for "no" hydraulic leaks
Oil level full
All components functioning properly
All integral moving parts lubricated
Check for overhead obstructions
Lifting arms level and on the correct side in relation to the power unit.
All hardware secure (nuts, bolts, pins)
Test limit switch operation
Working area clean
Operation, maintenance and safety manuals in designated location



OPERATATION MANUAL

JGG-50CF

2 POST CLEAR FLOOR HOIST

OPERATOR TRAINING AND SAFE PRACTICES.

Keep a copy of these instructions close by and stored in a protected dry location readily available for operators. Each operator must read and carefully follow all safety instructions. Ensure all operators understand how to operate the product safely and correctly before use. Failure to operate this product as intended may cause injury or death.

Prior to each use, on a regular basis, carefully inspect the product and perform all maintenance as required. Service and maintain the product only with authorized or approved replacement parts; negligence will make the product unsafe for use and may void the warranty.

Keep and maintain that all decals on the product remain clean and visible. Do not modify and/or use this product for any application other than that for which this product was designed. If you have any questions related to a particular application contrary to the product's specific functions, **DO NOT** use the product until you have first contacted **Joel's Garage Gear** to determine if it can be performed using the product.

GENERAL SAFETY RULES

WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury or death.

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It is understood and agreed by the operator that common sense and caution are factors that cannot be built into this product. It is the operator's responsibility to adhere to the instructions and operating procedures described in this manual to successfully operate this product.

IMPORTANT SAFETY CONSIDERATIONS

To maintain the product and user safety, you must: -.

- Always check for damaged or worn-out parts before using the hoist. Broken parts will affect the equipment operation. Replace or repair damaged or worn parts immediately.
- Not modify the product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Keep instructions readily available for equipment operators.
- Make certain all operators understand how to operate the unit safely and correctly.
- Allow unit operation only with all parts in place and operating properly.
- Use only genuine replacement parts.
- Service and maintain the unit only with authorized or approved replacement parts; negligence will make the product unsafe for use and void the warranty.
- Carefully inspect the unit on a regular basis and perform all maintenance as required.
- Keep all decals on the unit clean and visible.

HAZARD DESCRIPTIONS

Identify the hazard levels used in this manual with the following definitions and signal words:

△ DANGER:

A WARNING:

▲ CAUTION:

Immediate hazards which will result in severe liability or exposure to personal injury or death.

Hazards or unsafe practices which could result in severe personal injury or death.

Hazards or unsafe practices which may result in personal injury, product or property damage

SAFETY MARKINGS

Pay close attention and follow all the safety markings.

- Do not exceed rated capacity.
- Do not move or dolly the vehicle while on the hoist.
- Lift only on areas of any vehicle as specified by the vehicle manufacturer.
- No alterations shall be made to this product.
- Only attachments and/or adapters supplied by the manufacturer shall be used.
- Do not get under or allow anyone under the vehicle until it has been supported with an auxiliary jack stands on both the front and rear of the vehicle.
- Center load on lifting arms and saddles prior to lifting.
- Secure vehicle to ensure no shifting, movement, or tipping will occur when performing maintenance on any vehicle.
- Verify that safety locks are engaged on the arms and lifting carriages before performing any work.
- Do not use this product for any use other than the manufacturer specified usage. Failure to heed these warnings may result in personal injury and/or property damage.

WARNING:

DO NOT USE wooden blocks or any other non-approved load sustaining devices or any other non-approved lifting devices for a means of lifting a vehicle or load being raised. The manufacturer only warrants loads to be sustained by adapters or accessories validated by the manufacturer. Failure to head these warnings may cause injury or death.

TRAINING

Do not allow anyone who has not read this operating manual, and/or does not understand the requirements to use the product.

BYSTANDERS

Keep all bystanders away from hoist when in use. Do not allow bystanders under the load supported. Do not allow anyone within a vehicle while the hoist is in use or is supporting a load.

OPERATORS

Not for use by children or people with reduced mental capacity. Do not use under the influence of any drugs or alcohol.

INSPECTION

Inspect the product carefully before each use. Ensure the product is not damaged, excessively worn, or missing parts. Do not use the hoist unless it is properly lubricated. Using a hoist that is not in good clean working condition or properly lubricated may cause serious injury.

INTENDED USE

This two-post car hoist is designed to lift and raise light duty vehicles up to 5000kgs. Our 2 post car hoists offer variable lifting configurations, for unobstructed floor space while repairing vehicles.

GENERAL OPERATION

USE THE HOIST CORRECTLY AND IN A PROPER MANNER. Never use lifting adapters other than what has been supplied by the manufacturer.

- Positioning the vehicle is very important. Only people trained in operating the hoist should position the vehicle on the hoist. Never allow anyone to stand in the path of the vehicle as it is being positioned.
- Some vehicle maintenance and repair activities may cause the vehicle to shift. Follow the manufacturer's guidelines when performing these operations.
- The use of jack stands, or alternate lifting points may be required when completing some repairs for additional security. Special care must be used when lifting light duty trucks. Optional truck adapters may be required for each manufacturer's recommended lifting points.
- Always use these lifting points (see lifting point guidelines). Running boards and other installed accessories may also require optional adapters.
- Ensure vehicle is balanced, failure to do so can cause injury and/or death.
- Removal or installation of heavier parts can change the vehicle's center of gravity on the hoist resulting in a critical load shift. The vehicle may then be unstable. Plan for this possibility to ensure continued safety and **always** refer to the vehicle manufacturers' service manual for recommended procedures.
- Do not allow customers/friends/children or unauthorized personnel to operate the hoist or remain in the surrounding area during use.
- **DO NOT** remove any heavy component from vehicle that may cause excessive weight shift.
- **ALWAYS** keep the hoist area free of obstructions and debris.
- **NEVER** raise a vehicle with passengers inside.
- Before **lowering a vehicle**, check the hoist and surrounding area and remove all obstructions.
- Before removing the vehicle from the hoist, position arms to the drive through position and confirm an unobstructed exit.
- ALWAYS Make sure the vehicle's center of gravity is always safe before raising the vehicle. All points of contact on vehicles should always be double checked. Always make sure the vehicle is secure before lifting using vehicle manufacturers' recommended lifting points.
- Large vehicles, such as limousines, RVs, and long wheelbase vehicles, may not be suitable for lifting on this equipment. Check with the vehicle manufacturer.
- **DO NOT** rock or shake the vehicle while working on or around hoist.
- **VERIFY** that all safety latches are engaged and lowered on to the safety latch ladders before any attempt is made to work on or near vehicle.
- **NEVER** override self-operating hoist controls.
- **NEVER** remove any safety related components, parts or safety stickers from the hoist. Do not use the hoist if any safety related component or part is damaged or missing.
- **DO NOT** block open or override self-closing the hoist controls; they are designed to return to the "Off" or Neutral position when released.
- **DO NOT** remove or disable arm restraints.
- **DO NOT** hit or run over the hoist arms or adapters. This could damage the hoist or vehicle. Before

driving the vehicle into hoist bay, position arms and adapters to provide unobstructed entrance onto the hoist.

- USE THE HOIST ONLY AS DESCRIBED IN THIS MANUAL.
- Use only manufacturer's recommended attachments.
- The troubleshooting and maintenance procedures described in this manual can be done by the hoist's owner. Any other procedure should only be performed by trained hoist service personnel. These restricted procedures include, but are not limited to, the following: cylinder replacement, carriage and safety latch replacement, arm replacement, overhead structure replacement, or electrical troubleshooting/repair.
- **PAY ATTENTION** when walking under a vehicle that is raised on the vehicle hoist.

DANGERS:

- To reduce the risk of personal injury, keep hair, loose clothing, fingers, and all body parts away from moving parts.
- This equipment has internal arcing or sparking parts. To reduce the risk of electric shock the motor and hoist should not be exposed to moisture or water.
- To reduce the risk of fire, do not operate equipment in the proximity of open containers containing flammable liquids (example: Gasoline, flammable solvents).
- Anyone who will be in the vicinity of the hoist when it is in use should familiarize themselves with all the **Caution, Warning, and Safety** related decals supplied with this hoist and replace them if they are illegible or missing.

SAFETY STICKER IDENTIFICATION

Below are the Safety Sticker identifications and markings that are on the hoist. These identifications are put in place to help with your safety and the safety of others. Always use caution when working around the vehicle hoist.

Please maintain these Safety Marking so safe operating practices can be maintained by each operator.



HOW TO OPERATE THE HOIST

- **ONLY AUTHORIZED PERSONNEL** should operate the hoist.
- Make sure all operators have been trained and have reviewed the **OPERATOR AND SAFE PRACTICES** of this manual before using the hoist.
- Familiarize yourself with the **Safety Precautions** to be followed when operating this hoist.
- Always allow a minimum 2-second delay between motor starts. Failure to comply may cause the switch and/or motor to burn out. This could cause serious damage to the equipment and/or personal property.
- Use only recommended ISO AW32 or AW46 hydraulic oils. Oil must be changed after the first week of operation and once every 12 months or as needed. Add extra oil as needed.
- Have a complete understanding of the carriage safety lock mechanisms.
 - The **"LOCKED position"** will be used when raising the hoist. This function should always work automatically.
 - The "UN-LOCKED position" will be used when lowering the hoist to the ground or adjusting the arm position.
- **Note: DO NOT** remove or tamper with the design of the locking assembly.
- Failure to use locks as designed or forcing a lock to stay in the open position during use will be grounds for immediate termination of any warranty.
- **ALWAYS** ensure the safety is engaged before any attempt is made to work under, on or near the vehicle.
- **NEVER** leave the hoist in elevated position unless the safeties are engaged.
- **NEVER** operate the hoist (up or down) with any person or equipment below the vehicle.
- **NEVER** exceed the rated lifting capacity.
- **DO NOT ALLOW THE ELECTRIC MOTOR TO GET WET!** Motor damage caused by dampness is not covered under warranty.
- **NEVER** lift any vehicle in any manner with less than all four (4) arms. The rated capacity of each lifting arm is no greater than one fourth (1/4) of the overall lifting capacity.
- **ALWAYS** position lifting arms, adapters and accessories properly out of the way before pulling the vehicle into or out of the bay. Failure to do so could damage the vehicle and/or the hoist.
- After positioning the vehicle, set the emergency brake (Hand Brake), make sure the ignition is off, the doors are closed, and overhead obstructions are cleared.
- Make sure the vehicle is not front or rear heavy. The center of balance should be in the middle of the columns.

1 DANGER:

DO NOT RAISE OR LOWER ANY VEHICLE UNLESS TOOLS, MATERIALS AND PEOPLE ARE CLEAR. CLEAN UP GREASE AND OIL SPILLS IMMEDIATELY. When the hoist is being lowered, make sure everyone is standing at least six feet away. Always lower the vehicle down when the area is safe and clear.

⚠ DANGER:

Check that the "half-moon" gear restraints on each lifting arm are engaged Check for proper engagement of the arm restraints (arm locks) before raising a vehicle. The safety gear restraints should fully engage the gear restraints on the arm automatically. **Note**: Regularly verify that Allen Bolts on gear restraints are tight and secure.

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IMPORTANT NOTE:

Many specialty or modified vehicles cannot be raised on a two-post frame engaging hoist. Contact YOUR vehicle manufacturer for raising or jacking details.

ALWAYS load vehicle on hoist carefully. Position the lifting arms, adapters, and pads to the vehicle manufacturer's recommended pickup points. Raise the hoist until contact is made with the vehicle. Make sure that the lifting arms, adapters, and pads have properly engaged the vehicle before raising the hoist to a working height.

Description:	Purpose:
Safety Lock Lever	Used to release safety latches when lowering
	vehicle.
Power "ON" Button	Controls electrical power to the hydraulic power unit. Push to turn-on.
Lowering Handle	Used to relieve hydraulic pressure when pressed to lower lifting carriages.
Fill Cap	Power unit fill Cap for the power unit fluid reservoir. Remove to add fluid.
Tank	Used to store hydraulic fluid.

DESCRIPTION OF LIFT CONTROLS



CARRIAGE LOCK CONTROLS



Following the review of these instructions, practice using the lift controls by running the lift through a few unloaded cycles prior to loading a vehicle onto the hoist. Always use all four [4] arms and adaptors when raising or lowering a vehicle. **NEVER RAISE ONE END ONE CORNER OR ONE SIDE OF A VEHICLE.**

LOADING A VEHICLE ON THE HOIST

IMPORTANT NOTE: Some vehicles may have the manufacturer's Service Garage Lifting Point locations identified by triangle shape marks on the undercarriage (reference ANSI/SAE J2184-1992). Additionally, there may be a label located on the right (driver side) front door jamb area showing specific vehicle lifting points.

PRIOR TO LIFTING: The hoist must be fully lowered, and the service bay clean of all personnel and equipment before the vehicle is brought on the lift. The swing arms must be set to the full drive through position.

LOADING: Move vehicle into the hoist bay. Swing arms under vehicle and position adaptors at the vehicle manufactures recommended lifting points – see diagrams. Use height extenders or optional frame cradle adaptors when necessary to ensure good contact.

To load the vehicle onto the hoist, use all four [4] arms making sure the vehicle is positioned correctly so all four corners of vehicle are stationary with wheel stops.

Position all lifting pads to contact vehicle at the manufacturers' recommended lifting points for proper weight distribution.

Raise the arms to just below the vehicle, stopping before making contact. Check arm restrain pin for engagement. If required slightly move the arm to allow restraint gear to mesh. Do not hammer arm restraint pin down as this will damage the restraint gear teeth.

Raise the hoist slowly until all pads contact the vehicle. Check all pads for complete and secure contact with the vehicle. Check all arm restraints to insure they are engaged properly. Check that the vehicle is stable on the hoist.

Raise the vehicle until the tires clear the floor. Stop and again check all adaptors for secure contact at the vehicle manufacturers recommended lift points.

DO not go near or under a raised vehicle if all 4 adaptors are not in secure contact with the vehicle at the vehicle manufacturer's recommended lift points. Repeat the entire loading and raising procedure again.

Only after confirming these procedures, raise the hoist to desired working height.

MANY SPECIALTY OR MODIFIED VEHICLES CANNOT BE RAISED ON A TWO-POST FRAME ENGAG ING LIFT. CONTACT VEHICLE MANUFACTURER FOR RAISING OR JACKING DETAILS

RECOMMENDED LIFTING POINTS



Pick up truck / Van



Perimeter Frame



Stub frame



Unitized Body

RAISING THE HOIST WITH VEHICLE LOAD,

- Prior to raising any vehicle, ensure the vehicle's is positioned at best to its center of gravity. Double check that all points of the lifting pads have contact on the vehicle. Always make sure the vehicle is secure before lifting using only your vehicle manufacturers' recommended lifting points.
- Adjust the lifting arms so that the vehicle is positioned with the center of gravity midway between the hoist • columns. (Use truck adapters as needed.)
- **DANGER: NEVER** use the lifting pad assemblies without the rubber pads in place. •
- Press the power "on" button. •
- As the hoist rises a clicking sound will be heard. These are the carriage locks that will securely hold a vehicle. •
- Once the desired height has been achieved slightly raise the carriage a little more, so the lift arms are just above • the last latch position, (confirmed by the clicking sound) then slowly lower the load on the safety locks.
- NEVER attempt to raise or 'creep' the hoist by continually pressing the 'on' button in short bursts. This will cause • critical damage to the hydraulic system, that could cause hydraulic failure.
- Verify that both Safety Carriage locks have been engaged before beginning work. •

LOWERING THE HOIST WITH VEHICLE LOAD

- Prior to lowering the hoist
 - Always remove tool trays, stands and any other equipment that may cause obstruction.
 - Always release safety locks before attempting to lower the hoist.
 - Always position the hoist arms and adaptors to provide an unobstructed exit before removing the vehicle from the area.
- To lower the hoist, first raise the hoist to clear the safety latches, press the power "on" button, then pull • down the safety lock release handle. The carriages should now be in the free UN- LOCKED position.
- Simultaneously hold the Safety Carriage Locks in the UN-LOCKED Position and press the lowering control • valve on the power unit.
- Lower the hoist slowly until reach the lowest retracted position. •
- Retract the lifting arms to the shortest position. •
- Place any arm extension adapters on column storage brackets. •

WHEN LOWERING THE LIFT PAY CAREFUL ATIENTION THAT ALL PERSONNEL AND OBJECTS ARE KEPT CLEAR.

ALWAYS KEEP A VISUAL LINE OF SITE ON THE LIFTAT ALL TIMES. ALWAYS MAKE SURE THAT ALL LOCKS ARE DISENGAGED.IF ONE OF THE LOCKS INADVERTENTLY LOCKS ON DESCENT THE LIFT AND/OR VEHICLE MAY DISRUPT CAUSING PERSONAL INJURY OR DEATH

WEEKLY MAINTENANCE INSPECTION RECORD DATE: _

Mark OK for all Items in good working order.

Check equalizer cable tension, and adjust if necessary, see manual instructions. Lubricate Cable Sheave
Check equalizer cable tension, and adjust if necessary, see manual instructions. Lubricate Cable Sheave
Check all cables connections, bolts and pins to ensure proper mounting and torque.
Check safety latch synchronization: Safety latches should click at the same time. If necessary, adjust equalizing cables as described in the Installation Instruction section of this manual.
Check tightness of all bolts and hardware. Re-tighten as needed. See installation manual torque specific ratings.
Inspect all anchors bolts and retighten if necessary. Re-torque as needed. See installation manual for instructions.
Make a visual inspection of all moving parts and check for excessive signs of wear.
With the hoist in the lowered position, check the hydraulic fluid level. If needed, add oil as described in the lowered position of this manual
 Check all warning labels and power unit safety stickers are in good condition. Replace all caution, warni or safety related decals on the lift if unable to read or missing. Reorder labels from manufacturer

PRINT COPY PAGES FOR DAILY RECORDS

WIRE ROPE INSPECTION MAINTENANCE



Know when to replace your cables! The pictures below will help you assess when you will need to replace wire rope. For Additional Information see "Wire Rope User's Manual 4^{th Ed."}.

All wire rope, sheaves and guide rollers in continuous service should be observed during normal operation and visually as per the scheduled maintenance. A complete and thorough inspection of all ropes in use must be made as below and all rope which has been idle for a period of a month or more should be given a thorough inspection before it is put back into service. Factors such as abrasion, wear, fatigue, corrosion, improper winding and kinking are often of greater significance in determining if a wire rope is usable. Use the pictures as shown as guide for determining when to replace your wire rope.

Recommended Lubrication Product:

A high grade penetrating lubricant for wire rope, chain and cable that contain a petroleum solvent that carry the lubricant into the core of the wire rope, then evaporates, leaving behind a heavy lubricating film to protect and lubricate each strand. A penetrating lubricant is essential in any lubrication program as most wire rope fails from the inside out.

Check all guide rollers, sheaves and hardware that are in operational contact are visually checked for wear and lubrication

HOW TO INSPECT WIRE ROPE?

- Relax the rope to a stationary position and move the pick-up points off the sheaves. Clean the surface of the rope with a cloth this will allow you to see breaks. (Use a stiff wire brush, if necessary.)
- II. Flex the rope to expose any broken wires hidden in the channels between the strands.
- III. Visually check for any broken wires. One way to check for crown breaks is to run a cloth along the rope to check for possible snags.
- IV. With an awl tool, probe between wires and strands and lift any wires that appear loose. Evidence of internal broken wires may require a more extensive rope examination. (IF IN DOUBT REPLACE CABLES)
- V. Check for layer to layer crushing or individual wires that may have been displaced from their normal position.
- VI. Check Sheaves for deeply corrugated sheaves that may also be causing damage to wire ropes. Replace sheaves if needed.

- VII. Replace wire rope if any failing condition is found.
 - Equalizing and Lifting Cables should be replaced every three years when visible signs of damage are apparent.
 DO NOT USE THE HOIST WITH DAMAGED OR WORN CABLES.
- A lubricant suited to the conditions under which the rope is operating should then be applied. Several methods are suggested, and the one most suited to the installation and lubricant being used may be chosen. It is better to lubricate lightly and frequently than heavily and infrequently. For best results lubricate to core of cables.
- Improve rope performance and overall effectiveness
- Check all guide rollers, sheaves and hardware that are in operational contact are visually checked for wear and lubrication.
- Visually Inspect and Apply lubricants to all contact points using a heavy weight lubricant using the methods as described: spray, pump, brush or hand lubrication.



TROUBLESHOOTING

HOIST WILL NOT RAISE

Air is in the oil Cylinder is binding Cylinder leaks internally Hoist does not raise and lower smoothly	 Check for proper oil level. The oil level should be up to the bleed screw in the reservoir with the hoist all the way down. Bleed cylinders. See Installation Manual Oil seal damaged or cocked. Replace oil seal around pump shaft. Inlet screen clogged. Clean inlet screen or replace Contact Customer Service. Contact Customer Service Reposition vehicle for a more even weight distribution. Check the four inside corners of the two columns for roughness. Any rust or burrs must be removed with emery cloth. Lubricate the four corners with heavy duty bearing grease. Use a level to check the columns for vertical alignment both side to side and front to back. Shim the columns as necessary per the Installation Instruction section of this manual. Check the oil level.
	described in the Installation Instruction section of this manual.
Lowering valve is leaking	Contact Customer Service
Motor runs backwards	 Check if the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Check wall outlet voltages and wiring. Make sure the unit and wall outlet are wired properly. Contact Customer Service
Motor run backward under pressure	Contact Customer Service
Power Unit will not stop running	The switch is damaged. Turn off power to the hoist and replace switch
Pump is damaged	Contact Customer Service
Pump will not prime	 Check for proper oil level. The oil level should be up to the bleed screw in the reservoir with the hoist all the way down. Flush release valve incase jammed open. Hold release handle down and start unit allowing possible contamination to be flushed out, run for 15 seconds. Oil seal damaged or cocked. Replace oil seal around pump shaft. Replace with new part. Check pump-mounting bolts. Bolts should be 15 to 18 ft. lbs. Inlet screen clogged. Clean inlet screen or replace. Check wall outlet voltages and wiring. Make sure the unit and wall outlet are wired properly. Contact Customer Service
Relief valve leaks	Contact Customer Service
Voltage to the motor is incorrect	 Check if the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Check wall outlet voltages and wiring. Make sure the unit and wall outlet are wired properly. Contact Customer Service.
The power unit does not run	 Check electrical supply breaker or fuse. Check to see if limit switch is being contacted by a tall vehicle. Check micro-switch and connections in motor control box. Check voltage to the motor. Check micro-switch and connections on the overhead switch.
The power unit runs but does not raise the hoist	 Check the oil level. Check that the lowering valve is not stuck open. Check the connections and components on the suction side of the pump.
The power unit raises the hoist empty but will not lift a vehicle	 Make sure the vehicle is not above the rated capacity of the hoist. Make sure the vehicle is positioned properly. Clean the lowering valve by running the power unit for 15 seconds while holding the lowering valve open. Check the motor voltage.

TROUBLESHOOTING

MOTOR WILL NOT RUN

F	Fuse is blown	 Check for correct voltage. Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. Requires 2.5mm2 for 20 Amps. Check the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Don't use extension cords. The size of the conductors should be such that the voltage drop would not exceed 3% to the farthest outlet for power. Reset circuit breaker/fuse. Reset circuit breaker/fuse. Contact Customer Service.
L	Limit switch is burned out	 Check for correct voltage. Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. Requires 2.5mm2 for 20 Amps. Check the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Don't use extension cords. The size of the conductors should be such that the voltage drop would not exceed 3% to the farthest outlet for power. Contact Customer Service.
s	switch is burned out	 Check for correct voltage. Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. Requires 2.5mm2 for 20 Amps. Check the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Don't use extension cords. The size of the conductors should be such that the voltage drop would not exceed 3% to the farthest outlet for power. Contact Customer Service.
N	Motor is burned out	 Check for correct voltage. Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. Requires 2.5mm2 for 20 Amps. Check the motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Don't use extension cords. The size of the conductors should be such that the voltage drop would not exceed 3% to the farthest outlet for power. Replace with a new part. Contact Customer Service
V	Voltage to the motor is not correct	 Check for correct voltage. Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. Requires 2.5mm2 for 20 Amps. Check motor is wired correctly. Compare wiring of motor to electrical diagram on drawing. Check wall outlet voltage and wiring. Make sure unit and wall outlet is wired properly. Motor must run at 220-240 VAC.

A DANGER:

IF A VEHICLE BECOMES STUCK ON THE HOIST IN THE AIR, FOLLOW ALL OPERATION INSTRUCTIONS AS SHOWN IN THE OPERATING INSTRUCTIONS AND TROUBLESHOOTING SECTION OF THIS MANUAL. IF AFTER OBSERVING THAT ALL MECHANICAL LOCKS ARE RELEASED AND THE HOIST STILL FAILS MOVE FOLLOWING ALL STANDARD OPERATING PROCEDURES, IMMEDIATELY STOP USING THE HOIST AND CONTACT CUSTOMER SERVICE FOR FURTHER INSTRUCTIONS.



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GENERAL ASSEMBLY PARTS LIST

Index #	Item Number	Item Description	Quantity
1	QJY250DX.1.1	COLUMN POWERSIDE ASSEMBLY	1
2	QJY250DX.2.1	COLUMN OFF-SIDE ASSEMBLY	1
3	QJY4040.5-01	PUMP FITTING	1
4	JB982-77	O-RING ASSEMBLED WASHER (FOR PUMP	1
5	YBZ6-F2.1E3H1/AMQOT	WUXI POWER UNIT	1
6	GB5783 M8X22mm	HHCS M8X22mm	4
7	GB97 M8	WASHER M8	4
8	GB889 M8	NYLON INSERT HEX LOCK NUT M8	4
9	QJY250DX.8-05	CYLINDER HYDRAULIC FITTING 125mm	2
	GB5783 M10X60mm	HHCS M10X60mm	2
10	GB97 M10	WASHER M10	2
	GB93 M10	LOCK WASHER M10	2
	QJY250DX.9-04	M10 THREADED L-BRACKET FOR SAFETY BAR	2
	GB5783 M12X35mm	HHCS M12X35mm	8
11	GB97 M12	WASHER M12	16
	GB889 M12	NYLON INSERT HEX LOCK NUT M12	8
12	QJY230D.3-01	ASSEMBLY ATTACHMENT CROSS BEAM	2
	GB5783 M10X30mm	HHCS M10X30mm	8
13	GB97 M10	WASHER M10	16
	GB889 M10	NYLON INSERT HEX LOCK NUT M10	8
	GB5783 M12X25mm	HHCS M12X25mm	8
14	GB97 M12	WASHER M12	16
	GB889 M12	NYLON INSERT HEX LOCK NUT M12	8
	QJY250DS.9.2	OVERHEAD SHAFT ASSEMBLY	2
	GB819 M6X10mm	FLAT HEAD PHILLIPS MACHINE SCREW M6X10mm	2
15	QJY250DX.9-06	OVERHEAD SPACER	4
	QJY250DS-17	CABLE SHEAVE 110mm	4
	SF-2	BUSHING 2520	4
	QJY250DX.9-07	SHORT OVERHEAD SPACER	4
16	QJY250DX.9-01	CROSS BEAM CENTER ASSEMBLY	1
17	QJY250DX.9.1	CROSS BEAM OUTER ASSEMBLY	2
18	QJY250DX.9-02	SAFETY BAR	1
	QJY250DX.9-03	SAFETY BAR FOAM COVER	1
19	ME-8104	LIMIT SWITCH	1
<mark>20</mark>	SEE PART 10		
<mark>21</mark>	SEE PAGE 55		
22	QJY250DS-13	SAFETY COVER POWERSIDE	1
	QJY250DX-03	SAFETY LOCK LEVER	1
23	GB84141 M10X25mm	HANDLE BALL M10X25mm	1
	GB6170 M10	HEX NUT M10	1
24	GB70 M8X12mm	SHCS M8X12mm	8
25	QJY250DS-14	SAFETY COVER NON-POWERSIDE	1
26	SEE PAGE 56		
27	QJY250DS-17	CABLE SHEAVE 110mm	2
	SF-2	BUSHING 2520	2
28	GB894 M25	EXTERNAL RETAINING RING M25	2
29	QJY250DS-16	ADAPTER BRACKET	2
30	GB70 M8X12mm	SHCS M8X12mm	4
	GB97 M8	WASHER M8	4

31	TLI-1514-2110-01-R00	EXTENSION, ADAPTER, 1 1/2 in, 38mm	4
32	TLI-1514-2110-02-R00	EXTENSION, ADAPTER, 3 in, 75mm	4
33	TLI-1514-2110-03-R00	EXTENSION, ADAPTER, 6in, 180mm	4
34	QJY250DS.7	HYDRAULIC CYLINDER 1775.5mm (69.9")	2
35	JB-1001-77 M8	BLEEDER SCREW M8	2
36	QJY250DX.3	CARRIAGE ASSEMBLY	2
37	QJY230CY.2-01a	DOOR STOP	2
38	GB70 M8X20mm	SHCS M8X20mm	4
39	GB6170 M18	HEX NUT M18	8
40	QJY250DX.3-01	SLIDE BLOCK (UHMW)	16
	QJY250DX.3-03	SLIDE BLOCK SHIM (MAY NOT TOTAL 16)	16
41	GB84141 M12X30mm	HANDLE BALL M12X30mm	4
42	QJY230C.2-05	CARRIAGE RESTRAINT PIN	4
43	GB879 M5X35mm	SLOTTED SPRING PIN M5X35mm (UPPER AND LOWER)	8
44	QJY230C.2-02	CARRIAGE ARM GEAR RESTRAINT	4
45	QJY230C.2-04	SPRING 65Mn 28X92X2.5mm	4
46	QJY250DX-02	ARM PIN	4
47	GB894 M38	EXTERNAL RETAINING RING M38	4
48D	QJY250DX.4D	SHORT ARM ASSEMBLY (FRONT DRIVER SIDE)	1
48P	QJY250DX.4P	SHORT ARM ASSEMBLY (FRONT PASSENGER SIDE)	1
49	QJY250DX.5	LONG ARM ASSEMBLY (REAR ARM)	2
50	GB70 M10X25mm	SHCS M10X25mm (3 EACH ARM)	12
51	QJY230C.4-04	ARM GEAR RESTRAINT	4
		ARM STRUCTURE ASSEMBLIES	
52	QJY250DX.5.1	LONG BACK ARM ASSEMBLY	1
52	GB70 M10X20mm	SHCS M10X20mm	1
53	GB97 M10	FENDER WASHER M10	1
	GB93 M10	LOCK WASHER M10	1
54	GB2673 M10X12mm	FLAT HEAD TORX SCREW M10X12mm	2
55	QJY230C.4-02	ARM STOP	1
56	QJY250DX.5.2	LONG MIDDLE ARM ASSEMBLY	1
57	QJY250DX.5.3	LONG FRONT ARM ASSEMBLY	1
58D	QJY250DX.4.1D	SHORT BACK ARM ASSEMBLY (DRIVER SIDE)	1
58P	QJY250DX.4.1P	SHORT BACK ARM ASSEMBLY (PASSENGER SIDE)	1
59	QJY250DX.4.2	SHORT MIDDLE ARM ASSEMBLY	1
60	QJY250DX.4-01	RING, LIMITER, ARM EXTENSION	1
61	QJY250DX.4.3	SHORT FRONT ARM ASSEMBLY	1
62	QJY230C.4-03	RUBBER LIFT PAD (PAD ONLY)	1
	QJY250DX.4.4	ARM LIFT PAD WELDMENT	1
	GB70 M8X12mm	SHCS M8X12mm	4
62-1	QJY250DX.4A	ARM LIFT PAD COMPLETE ASSEMBLY	4
		PARTS NOT PICTURED	
64	QJY250DX-10	HYDRAULIC HOSE COVER SHORT 400mm	1
65	QJY250DX-09	HYDRAUILC HOSE COVER MEDIUM 830mm	1
66	QJY250DX-11	HYDRAULIC HOSE COVER LONG 1350mm	3
67			20
-	GB70 M6X10mm	SHCS W6X10mm (FOR HYDRAULIC HOSE COVERS)	20
68	GB70 M6X10mm GB97 M6	WASHER M6 (FOR HYDRAULIC HOSE COVERS)	28

POWERSIDE COLUMN ASSEMBLY PARTS LIST



Index #	Item Number	Item Description	Quantity
101	QJY250DX.1.1	COLUMN POWERSIDE ASSEMBLY	1
102	QJY250DX.1-01	SAFETY LATCH	1
103	QJY250DX.1-02	SAFETY PIN	1
104	QJY250DX.1-03	SAFETY SPRING	1
105	QJY250DS-20	TIE BAR SPACER	2
106	QJY250DS-02	SAFETY LATCH LIMIT STOP	1
107	QJY250DS-17	CABLE SHEAVE 110mm	1
108	SF-2	BUSHING 2520	1
109	GB894 M25	EXTERNAL RETAINING RING M25	1
110	GB70 M6X10mm	SHCS M6X10mm	2
111	GB71 M10X12	CUP POINT ALLEN HEAD SET SCREW M10X12mm	1
112	GB6170 M6	HEX NUT M6	1
113	GB5783 M6X20mm	HHCS M6X20mm	1

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NON-POWERSIDE COLUMN ASSEMBLY PARTS LIST



Index #	Item Number	Item Description	Quantity
201	QJY250DX.2.1	COLUMN NON-POWERSIDE ASSEMBLY	1
202	QJY250DX.1-01	SAFETY LATCH	1
203	QJY250DX.1-02	SAFETY PIN	1
204	QJY250DX.1-03	SAFETY SPRING	1
205	QJY250DS-20	TIE BAR SPACER	2
206	QJY250DS-17	CABLE SHEAVE 110mm	1
207	SF-2	BUSHING 2520	1
208	GB894 M25	EXTERNAL RETAINING RING M25	1
209	GB71 M10X12	CUP POINT ALLEN HEAD SET SCREW M10X12mm	1
210	GB6170 M6	HEX NUT M6	1
211	GB5783 M6X20mm	HHCS M6X20mm	1

HYDRAULIC SYSTEM ASSEMBLY PARTS LIST



Index #	Item Number	Item Description	Quantity
301	QJY250DX.8-01	HYDRAULIC HOSE MEDIUM 1,110mm	1
302	QJY250DX.8-02	HYDRAULIC HOSE SHORT 230mm	1
<mark>303</mark>	QJY250DX.8-03	HYDRAULIC HOSE EXTENDER FITTING	<mark>1</mark>
304	QJY250DX.8-04	HYDRAULIC HOSE LONG 9130mm	1
305	QJY250DX.8-05	CYLINDER HYDRAULIC FITTING 125mm ¼NPT TO #6JIS	2
306	QJY250DS.7	HYDRAULIC CYLINDER 1775.5mm (69.9")	2
307	QJY250DX.8-06	T-FITTING #6 JIS	1
308	QJY4040.5-01	PUMP FITTING #6 BOSS FITTING (SAE TO JIS)	1
309	JB982-77	O-RING ASSEMBLED WASHER (FOR PUMP	1
310	GB5783 M8X22mm	HHCS M8X22mm	4
311	GB97 M8	WASHER M8	4
312	GB889 M8	NYLON INSERT HEX LOCK NUT M8	4
313	YBZ6-F2.1E3H1/AMQOT	WUXI POWER UNIT	1

SAFETY CABLE ASSEMBLY PARTS LIST



Index #	Item Number	Item Description	Quantity
700	QJY250DX.10-01	SAFETY CABLE (Ø2mm X 8800mm)	1
701	QJY250DX.10-02	HHCS SAFETY SCREW M8X45mm	1
702	GB6170 M8	HEX NUT M8	4
703	GB5782 M8X35mm	HHCS M8X35mm	1
704	QJY250DS.17-02	ALUMINUM CRIMP FITTING	1
705	QJY250DS.17-04	THIMBLE	1
706	GB97	WASHER M8	2
707	QJY250DS.11	SAFETY CABLE BRACKET	2
708	QJY250DS-03	SAFETY PULLEY 35mm	2
709	GB70 M8X30mm	SHCS M8X30mm	2
710	GB889 M8	NYLON INSERT HEX LOCK NUT M8	2
711	GB70 M8X12mm	SHCS M8X12mm	4
712	QJY250DS.1-02	SAFETY PULLEY SEAT	2
713	QJY250DS-03	SAFETY PULLEY 35mm	2
714	GB70 M8X30mm	SHCS M8X30mm	2
715	GB889 M8	NYLON INSERT HEX LOCK NUT M8	2
716	GB70 M6X10mm	SHCS M6X10mm	8
717	GB97 M6	WASHER M6	8

EQUALIZER CABLE ASSEMBLY PARTS LIST

Index #	Item Number	Item Description	Quantity
500	QJY250DX-01	EQUALIZING CABLE 11,320mm	2
501	QJY250DX-05	EQUALIZER CABLE EXTENDER	4





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