



PORTADAVIT QUANTUM

> Assembly & Operation Guide

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Lightweight. Portable. Safe.

Please read the following instructions and guidance notes carefully, before using or operating the system. They contain important information about how to handle and use the system in a safe and efficient way, avoiding danger, reducing repair costs and downtime, and increasing the reliability and lifespan of the system.

They apply for:

- Operation, including preparation, troubleshooting during operation and cleaning
- Maintenance, inspection and repair
- Transportation

It is the responsibility of the end user to adhere to the Health & Safety and accident prevention standards and legislation valid in their respective countries and any regions in which the system is being used. A rescue plan also needs to be in place in the event of an emergency that could occur during the work. This document should form part of the overriding Risk Assessment and Method Statement required for each lift.

Correct Operation

Intended Use

This product is intended to be used for; the lifting of goods, or the lifting of persons providing there is no risk of a fall

This product provides a safety anchor point on the column for the prevention of falls of the person operating the davit only.

It is expected that all users of this product have the necessary medical and physical capabilities, are fully trained and competent in its safe assembly and use.

Inspection Prior to Initial Operation

Each product must be inspected prior to initial operation by a competent person to ensure that the structure is safe and that it has not been damaged by incorrect assembly, transport or storage.

Inspection Before Starting Work

Before starting work, the product assembly and all load-bearing components should be checked for visual defects as per the inspection checklist on page 8.

Maximum Capacity

Goods Lifting: This product is designed to lift and lower loads up to its rated capacity. Do not exceed the capacity indicated on the product.

Personnel Lifting: When lifting people, the overall load limit is reduced by half to provide an increased safety factor. The maximum capacity permitted by the personnel winch/accessory used in conjunction with the product also needs to be taken into account.

If this product is to be used for lifting or lowering a person where there is a risk of a fall, then a secondary line/fall arrest unit is required, connected to a separate structure which meets the requirements of OSHA 1926 Subpart M.



The system is not suitable for fall arrest applications.



The system is suitable for fall arrest applications. Specify number of users. Max weight of 330lb.

Only chain hoists with a capacity of up to 2200lb are suitable for this product. The structure has been designed to take into account the weight of a standard chain block but, if a device with a significant additional weight is being used, then this needs to be included within the overall capacity. Care should also be taken when using any lifting device other than a manual chain hoist in case the dynamic effects of this reduce the overall capacity of the davit. REID Lifting's representatives can provide additional advice on this if required.

Please be aware that the maximum reach is achieved when the davit is being used at approximately 75% of its maximum capacity.

Temperature Range

This product can be operated in ambient dry temperatures between -10°F to 131°F (-23° to +55°C). Consult your supplier in case of extreme working conditions. If used in sub-zero and wet conditions, fall arrest appliances characteristics may change.



Notes for Correct Operation

For winched variants, each of the product's three sheaves have been designed to work specifically with the rope materials and diameters detailed below:

Sheave Colour	Rope Diameter	Rope Material
Yellow	1/8"-3/16"	Wire rope / Fibre rope
White/Natural	1/4"-5/16"	Wire rope / Fibre rope
Grey	5/16"-1/2"	Fibre rope only

- It is important to ensure that the correct sheave is being used to prevent pinching or squashing of the rope
- We recommend the use of load-sensing or overload protection devices on all lifts
- The risk assessment and method statement must consider any factors that might apply additional loading to the system during lifting operations
- Suitable, appropriately rated winches and connection plates must be used for all applications

- Take care when transporting and storing the system to avoid damage
- Assemble only as instructed (ensure all bolts are present and fitted correctly as per instructions
- We recommend that gloves are worn when using the equipment
- Attach the hoist to the dedicated lifting point only, making sure it is attached in a way that does not expose the user to danger by the hoist, chain or load
- Do not allow the load to swing
- To avoid side pull, lowering and lifting should only be carried out when the load chain forms a straight and vertical line between the load and lifting attachment point. (Refer to figure A)



- Do not assemble the davit in any nonapproved socket
- Make sure that the kingpin shaft is correctly seated in the socket before use
- Do not use this product if it does not rotate freely in the bearing or if the bottom flange is fouled in any way that prevents that free rotation
- Do not knot or shorten the tension strap to reduce the operating reach
- Always ensure that the product is set up in its mounting socket in a safe location where there is no risk of falling into the hazard or lift area
- Only attach the load to the lifting points on the head or winch line
- Contact your supplier before using the davit in (special atmospheres) extreme conditions

Correct Operation

Disclaimer

- REID lifting sockets & extensions have been designed, developed and tested for safe use with REID equipment and form a key part of the integrity of the total system
- All sockets have a maximum moment based on the maximum reach setting of the Davit, and the socket installation and verification tests performed
- If non-standard, third-party sockets are used, REID Lifting's Declaration of Conformity & Incorporation and warranty for the products is no longer valid and the system becomes the responsibility of the client

Warning

- The equipment should not be used outside of its limitations, or for any purpose other than that for which it is intended
- Do not lift or transport loads while personnel are in the danger zone
- Do not allow personnel to pass under a suspended load
- > Never leave a suspended load unattended
- Be aware of hazards when setting up/folding down, such as trapping fingers in rotating parts
- Be aware of any adverse weather conditions such as strong or gusty winds which could impose additional horizontal loads and affect the stability of the structure. Stop using if weather is impacting on lifting, and either disassemble the system or tie it to a rigid structure to ensure it can't overturn
- Don't allow the load to hit the system

Fall Protection

Fall arrest: This product contains a safety anchor point intended to protect the operator in the event of a fall only.

When being used for fall arrest, the operator must be equipped with a full body harness and a shock absorber that complies with the relevant national standards and regulation and that limits the Maximum Allowed Force (M.A.F.) To 8kN.

Only one person should be attached to the Davit in accordance with the notified capacity rating. Each lift must be properly planned, and all weights clearly known along with the capacity and constraints of all fall arrest system components.

For custom designed davits please contact your supplier for appropriate rating and capabilities.



Additional Notes for Correct Operation

- Ensure suitable and appropriately rated winches and connection plates are used for all applications
- The fall arrest device must only be attached to the indicated lifting point on the column.
- Never walk away from the structure whilst connected to the equipment (either by winch or fall arrest block)
- When using the davit as a fall arrest anchor, ensure there is adequate fall clearance when working at height.
- Always consider the potential effects of sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, climatic exposure on the fall protection lifelines, and the effect of offset forces as a result of pendulum falls
- Where regulations require, each installation must be approved by a qualified person

Warning

- When using the Davit in conjunction with any other manufacturer's fall protection products, it is essential to read the instructions for those products to check their suitability and restrictions for use
- REID Lifting does not recommend that the davit is used for personnel and goods lifting at the same time
- It is essential for safety that the product is withdrawn from use immediately and not be used again until confirmed in writing by a competent person should,
 - 1. Any doubt arises about its condition for safe use or;
 - 2.It has been used to arrest a fall

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Inspection & Maintenance

The following information is based on REID Lifting's recommendations and does not remove the responsibility of the user to comply with the relevant regulations and standards that are valid in the respective countries and regions where the system is being used.

Before use, the product should be inspected for visual defects using the checklist below:

- Ensure that the kingpin, column, jib and backstay are free from dents and indentations and are not showing any signs of distortion
- Check that there is no elongation of the beam holes and that the inserts have not become loose
- Make sure that the telescopic jib section retracts fully and that the holes line up so that the pin can be fully inserted. If either of these functions are affected, it may be a sign that the device has been overloaded.
- Ensure that there is no damage to the shackles or polyester strop. (REID recommends replacing the strop if there are any signs of damage, fraying, UV degradation or wear)
- Make sure that the sheaves rotate freely and that there is no visible damage
- Ensure that no bolts are loose
- Check any brackets or attachments for signs of damage.

Test the free rotation of the kingpin and ensure that it is fully engaged in the socket. The lower bearing at the bottom of the column needs to be flush with the top of the socket.

Regular Inspections

To ensure that the product's remains in safe working order it must be inspected regularly by a competent person. We recommend inspections every 6 months for personnel lifting and every 12 months for goods only, unless adverse working conditions or profile of use dictate shorter periods. The components of the system frame need to be checked for damage, wear, corrosion or other irregularities. It may be necessary to disassemble the system frame in order to do this. Particular attention should be paid to checking the profiles for denting, making sure there is no wear or elongation on the bolt holes and ensuring that the jib section retracts smoothly.

Any necessary repairs should only be carried out by an approved specialist workshop using original spare parts. It is recommended that once inspected or repaired, the device is marked with the date of the next inspection.

Inspections are instigated by the user. If detailed information is required on inspection and test criteria, please refer to your supplier's technical department. The equipment Inspection Record is on page 27.

If using the system in explosive atmospheres, see additional section titled ATEX.



Maintenance & Repair

In order to ensure correct operation, the conditions for inspection and maintenance must be complied with. If any defects are found, stop using the product immediately.

No alterations or additions to the equipment should be made without the written consent of the manufacturer. Any repair must be carried out in accordance with the manufacturer's procedures.

It is recommended to maintain the equipment in a clean and dry manner. Cleaning is suggested using a sponge or cloth with warm, soapy water, rinsing and allowing to dry.

This product must be assembled using metric fixings of the same type and quality as those supplied by the original manufacturer only. Failure to do so could have an impact on the structural performance and stability of the product.

Storage & Transportation

When transporting the components, take note of all the manual handling considerations.

Do not throw the product down or stack any items on top of it.

Always place carefully and security on the ground to avoid damaging the equipment.

Overload Indicator

This product is fitted with a mechanism that will indicate if the structure has been overloaded.

There are two warning signs to look out for:

- The pin to lock the two jib components together is difficult to insert or can't be inserted completely when the upper jib is retracted into its vertical stowed position after use
- The upper part of the jib itself can't be fully retracted into its stowed position

If either of these occur, quarantine the equipment immediately and contact your REID representative.

Inspection & Maintenance

Sockets

REID's davits need to be anchored to a suitable structural surface/foundation capable of withstanding the applicable loading We strongly recommends that a structural engineer validates this prior to installation of the product.

This product can be supplied with one of the sockets specified below (only sockets supplied by REID Lifting are approved to be used with this product):

- The Top Mount socket is for use on flat horizontal surfaces. It can be installed onto concrete using resin bonded anchors or into steel work using bolts
- The Side Mount socket can be installed using resin bonded anchors or mechanical anchors
- The Bridge Mount socket is for mounting into steel work and walkways
- The Cast & Resin Bonded sockets can be cast into new concrete or resin bonded into existing concrete



Top Mount

Bridge Mount





Cast & Resin Bonded

Socket Installation

Socket installation should only be carried out by a qualified person, with the ability to specify the anchors, resin, and fasteners necessary to ensure an installation that is safe for use. If in any doubt about the calculation of loads, contact your REID Lifting representative.

Depending upon the socket type, there are a number of different installation options. If bolts are being used for this, then these should be minimum grade 8.8 BZP or if stainless, grade A4 or equivalent.

When installing the socket, it is important to ensure that the top face is as level as possible, with misalignment no more than 3 degrees from the horizontal.

Note: Site specific information regarding the installation of REID davit sockets CANNOT be detailed within this operating manual as each site/structure is different. A qualified engineer MUST design and approve each installation based on the minimum mounting requirements, site information and experience.



Minimum Mounting Requirements

The supporting structure and installed base must be capable of withstanding the following:

- > A 5000lb (22.2kN) Vertical Load 1q
- > 80000 lb-in (9kN-m) bending moment
- 150% of the goods capacity at the device's maximum reach in all anticipated worst-case loading directions

For more detailed requirements please contact REID Lifting.

Verifying the Installation

We recommend that the socket installation is tested before initial use, particularly when using resin bonded anchors. When verifying the installation, testing should be to no more than 125% of the goods capacity at its maximum reach. All tests should be carried out in all anticipated worst-case loading directions, sustained for a duration of 3 minutes.

If the socket installation can't be tested, each anchor should be isolated and tested individually applying the applicable tension and shear loading. Please contact REID for more details

Following initial socket installation verification tests, we recommend periodic visual examination rather than overload tests for the socket or davit. If, as a result of the visual examination, a load test is judged to be required, then we recommend a 100% load test and certainly no more than 125%.

> ATEX

ATEX

This product has been designed for use in explosive atmospheres in line with the following requirements and information. Any use which differs or exceeds this is considered incorrect and REID Lifting Ltd will not accept any responsibility or liability for damages resulting from false application. The risk is solely with the user. If the product has been customized in any way, then it may not comply with standards and no longer be suitable for use in explosive atmospheres. If this is the case, then the product will not have any of the markings below. If in doubt, please contact your REID representative.

Classification [Zone 2]

As standard, the product meets the requirements of Category 3 equipment for use in Zone 2 explosive atmospheres, providing a normal level of protection where mixtures of air and gases, vapours or mists or by air and dusts mixtures are unlikely to occur or, if they do occur, are likely to do so only infrequently and for a short period only.

The product will have the following identification on the serial label:

As Standard for Zone 2 Environments:

🐼 II 3 GD

Ex h IIC T6 Gc

Ex h IIIC T85°C Dc

Tamb -20°C to +55°C



Classification [Zone 1]

Available as an upgrade, the product can be supplied to meet the requirements of Category 2 equipment for use in Zone 1 explosive atmospheres, providing a high level of protection where mixtures of air and gases, vapours, mists or by air and dusts mixtures are likely to occur.

The product will have the following identification on the serial label:

As an upgrade for use in Zone 1 environments:

🕟 II 2 GD

Ex h IIC T6 Gb Fx h IIIC T85°C Db

Tamb -20°C to +55°C





Spark Formation

There is an increased danger of ignition when certain material pairings clash, namely non-corrosion-resistant steel or cast iron against aluminium, magnesium or pertinent alloys. This applies especially in the case of rust or surface rust. When assembling the product and inserting fastening components, these must therefore be clear of rust and debris of any kind. As stated previously, care must be taken to ensure the product is handled in a suitable manner, never thrown down and always placed carefully onto the ground.

REID recommends the use of corrosion resistant tools when assembling this product to prevent the possibility of any sparks.

Static Electricity

For Zone 1 and 2 applications, there is a potential risk of static electricity build-up leading to an incentive spark. Although the risk of such ignition is unlikely, the system must be earthed during assembly and use. The sockets should be in direct contact with the ground and there should be no membrane separating the socket from the ground. If the route to earth for the structure cannot be guaranteed, then an earthing cable should be used.

Inspection, Maintenance & Repair

Special attention should be given to dust deposits on the structure, especially in areas where the profiles come into contact, and should be wiped clean and care taken not to apply materials that could create electrostatic charging.

Additionally, the kingpin should be checked to ensure it rotates freely and the lower bearing must be ensured to be fixed to the structure with no possibility of a build-up of debris between the contact surfaces.

The structure is predominantly constructed from aluminum which will not rust. However, there are steel components used throughout. These are the fasteners, shackles and sockets. Where there is sign of any rust deposits on the aluminium structure, it should be wiped clean as above and, where there is sign of rust on a steel component, that component should be removed from use and the structure not used until a replacement is fitted.

If using the product in explosive atmospheres, in addition to the Regular Inspection and Maintenance information above, these additional instructions should be followed:

Inspections must be instigated by the user prior to each use if used in a potentially explosive atmosphere.

Inspections and maintenance must be carried out at a safe distance away from an explosive atmosphere.

> Assembly Instructions

Protective Footwear

Gloves

Appropriate PPE should be worn:

The PORTA DAVIT QUANTUM (Type S) and its constituent components are described in the image below.

The use of a socket extension is optional and the socket type may vary between a Top Mount, Side Mount, Bridge Mount, Cast In or Resin Bonded, depending on application.





Assembling the PORTA DAVIT QUANTUM - Type S (Shackle only)



Insert the PORTA DAVIT QUANTUM into the socket as shown



> Remove the telescopic jib pin



> Extend the jib and re-insert the pin



Release the jib retaining strap and rotate jib assembly outwards

Adjusting the Radius



The operator can choose the most suitable reach for use, by inserting the pin in the adjustment plate

- The decal specifies the reach values with the upper value stating the outer shackle position and the lower value stating the inner shackle position
- The operating dimensions can be found on page 19

Assembly Instructions

The PORTA DAVIT QUANTUM (Type W) and its constituent components are described in the image below.

The use of a socket extension is optional and the socket type may vary between a Top Mount, Side Mount, Bridge Mount, Cast In or Resin Bonded, depending on application.



Protective Footwear Gloves Appropriate PPE should be worn:



Assembling the PORTA DAVIT QUANTUM - Type W (Winched)



 Insert the PORTA DAVIT QUANTUM into the socket as shown



> Remove the telescopic jib pin



 Remove column/ backstay pin and position the backstay towards the ground ensuring that the backstay remains inside the column fins



> Remove telescopic jib pin



> Extend the jib and re-insert the pin



 Line up the bottom hole on the backstay with the required operating reach hole and insert reach adjustment pin

> Assembly Instructions



Release the jib retaining strap and rotate jib assembly outwards

Adjusting the Radius



The operator can choose the most suitable radius for use, by inserting the pin in the adjustment plate



The decal specifies the reach values with the upper value stating the outer shackle position and the lower value stating the inner shackle position



Variants & Options.



Variants & Options

The list below outlines additional options available which can be fitted to the **PORTA**DAVIT QUANTUM;

> Rotational Handle

Rotational Handle

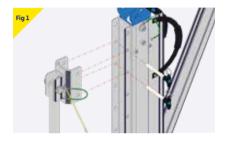
A rotational handle can be fitted to the column of the Davit to aid rotation underload. Dependent on the load lifted, users can experience a range of efforts.

To ease some of the higher efforts, as well as using the handle, users can attach a rope to the front shackles in the head of the davit to support the rotation.

The rotation should be done in a controlled manner.

When the rotational handle is attached to the Davit the following points must be observed:

- Attach the rotational handle to the column of the Davit at a suitable height [Ideal position should be around hip height]. Secure in place with the pins provided. [See Figure 1]
- Notate the handle upwards 90° to be perpendicular to the Davit column. [See Figure 2].
- Push and pull the handle to rotate the Davit. [See Figure 3].







Rotation Handle Approx Effort

Davit Load [lb]	660	880	1100	1320
Approximate Effort [lb]	55	77	88	110

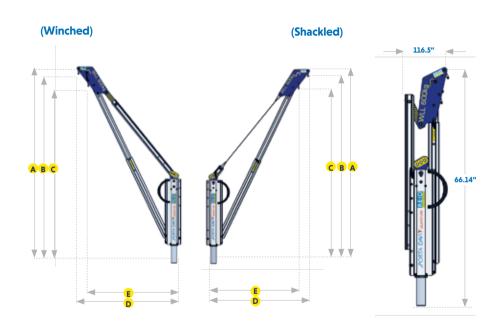


Notes

Dimensions

PORTADAVIT QUANTUM

- Overall height
- B Height to outer shackle
- C Height to inner shackle
- Radius to outer shackle
- E Radius to inner shackle





Dimensions

PORTADAVIT QUANTUM

		Radius Adjustment	Dimensions				
Part Number	Capacity (lbs)	Points	A	В	С	D*	E*
US-PDQ1S US-PDQ1W		1	79"	76¼"	70¾″	47¾"	43¼"
	1320lbs	2	81¼"	781/4"	72³¼"	43¼"	391/4"
		3	83"	80¾"	74½"	391/4"	35½"
		'				,	
US-PDQ2S		1	721/4"	69½"	643/4"	59"	55"
	1100lbs	2	74³⁄₄″	72"	67"	55"	51¼"
US-PDQ2W		3	77"	741/4"	69"	511/4"	471/4"

Dimensions are the same for Type S (Shackle only) and Type W (Winched).

* Radii achieved at≈75% Capacity

Quality & Safety

Regulations, Standards & Directives

This product complies with the following:

- > ATEX Directive 2014/34/EU
- Machinery Directive 2006/42/EC
- > PPE Regulation (EU) 2016/425
- > The Provision and Use of Work Equipment Regulations 1998 (S.I. 1998 No. 2306)
- The Lifting Operations and Lifting Equipment Regulations 1998 (S.I. 1998 No. 2307)
- In conformity with EN795:2012, AS/NZS 5532:2013 and PD CEN/TS 16415:2013

It is essential to adhere to the safety regulations of the respective country for using manual lifting equipment.

Accreditations

Quality and Safety are at the heart of the REID Lifting ethos and we are committed to maintaining the very highest standards. With this in mind, we have undertaken external accreditations to ensure we stay focused on what is important to our clients and users, and ahead of market trends and developments.

REID Lifting is continuously audited by Lloyds Register Quality Assurance (LRQA) for approval of its Integrated Management System combining quality systems management, environmental issues and the health and safety practices within the company.

- ISO 9001:2015 Quality management system which assesses an organization's ability to consistently provide products that meet customer and applicable regulatory requirements and aims to enhance customer satisfaction.
- ISO 14001:2015 Specifies the requirements for implementing environmental management systems throughout all areas of the organization.
- ISO 45001 Health & Safety Management System

- LEEA Membership REID Lifting is a full member of the Lifting Equipment Engineers Association (LEEA membership 000897). REID Lifting conforms to the main aims of the association which is to achieve the highest standards of quality and integrity in the operations of members. Entry qualifications are demanding and strictly enforced through technical audits based on the Technical Requirements for Members.
- IRATA REID Lifting is an associate member of the Industrial Rope Access Trade Association (IRATA International membership number 148). REID Lifting works in accordance with the IRATA Code of Practice and, in doing so, contributes to promote the development of safe systems.



Conformité Européenne [CE] & UK Conformity Assessed [UKCA]

REID Lifting's products have been designed, tested and approved (as appropriate) by the Conformité Européenne and UK Conformity Assessed. This certifies that REID Lifting's products meet the demands of the European and UK Directives and Regulations regarding Health and Safety requirements. The EC type-examination for this device has been carried out by SGS United Kingdom Ltd, 202b, Worle Parkway, Westonsuper-Mare, BS22 6WA, United Kingdom (CE body no.0120) in accordance with Module B of the PPE Regulation. The EC quality assurance system for this device has been carried out by SGS Fimko Oy, Takomotie 8, Fl-00380 Helsinki, Finland. (CE body no. 0598) and SGS United Kingdom Ltd, 202b, Worle Parkway, Weston-super-Mare, BS22 6WA, United Kingdom (CE body no.0120) in accordance with Module D PPE Regulation (EU) 2016/425 and as brought into UK law and amended.

Testing

Testing and technical file review are integral parts of our design and manufacturing process. External verification of products is undertaken where appropriate, using government approved Notified Bodies.

All products have been thoroughly type tested. Each product is supplied with a certificate of conformance and individual record of thorough examination or test.

Language

It is essential for the safety of the user that if this product is re-sold outside of the original country of destination, the reseller shall provide instructions for use, maintenance, inspection and repair in the language of the country where it will be used.

Product IPR

Intellectual property rights apply to all REID Lifting Ltd products. There are patents in place, or pending, for:

PORTAGANTRY" | PORTAGANTRY RAPIDE" | PORTADAVIT QUANTUM" | TDAVIT"

All product names are trademarks of REID Lifting Ltd:

PORTAGANTRY" | PORTAGANTRY DESCRIPTION |
PORTADAVIT" | PORTABASE" | TDAVIT" |
PORTAQUAD"

Product Labelling Key

Safety Labels



Insert and secure the bolt before loading the system.



Insert the detent pin and fully engage before loading the system.



Insert the clevis pin and secure with the clip before loading the system.



Restraint point only.



Read the operational manuals before using the system.



Ensure the pin is fully engaged.

Serial Labels



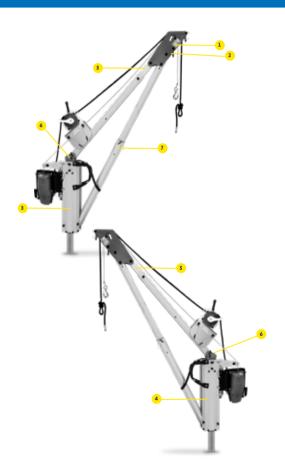
The system is not suitable for fall arrest applications.



The system is suitable for fall arrest applications. Specify number of users. Max weight of 330lb.



Product Labelling



Product labelling

The following labels must be present on your system and must be legible.







1100lbs







Product Identification & Inspection Record



M	a	r	k	in	C
					-

The serial labels indicate:

- > The product identification number
- > The product's unique serial number
- > The goods' capacity (WLL) of the device
- > The year of manufacture
- > The standards to which the device is approved
- > The ATEX rating of the product (if applicable)
- CE Marking
- > Minimum breaking strength (MBS) for ANSI Z359.18

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into table	nere:			



Periodic Examination & Repair History

				_
Date	Inspected by	Pass/Fail	Corrective Action	Comments

Notes

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Notes

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