

**P-Series**

Ratchet Drive



# Owner's Manual

## for the motorized access system



**HYDRO MOBILE**

Reach For New Heights

Call us for information:  
1-888-484-9376 (US)  
(toll free in the United States)  
(450) 589-8100 (Canada)



30053200-0-00000-0

P\_PMA\_v1.0\_EN

## NOTE

All assembly and operation instructions located in the motorized access car take precedence over information contained in this manual. Should there be any discrepancies discovered throughout any published documentation issued by Hydro Mobile or its authorized affiliates, the following order of precedence shall prevail:

1. Written documents issued by the Hydro Mobile Engineering department
2. Recall instructions
3. Assembly or operation instructions displayed on the motorized unit
4. Owner's manual

Any use of one or several Hydro Mobile motorized units, with or without accessories, in such a configuration or manner as not explicitly described in this manual is prohibited without the prior written permission of Hydro Mobile.

## REVISION LIST

| Code/Version             | Date     | Description                     |
|--------------------------|----------|---------------------------------|
| 30053200-0-00000-0 v 1.0 | SEP 2026 | First edition of Owner's manual |

## LEGEND OF ICONS

These icons are used to highlight important information throughout this manual



### Danger

Immediate hazard: if not avoided, will result in serious injury, even death



### Note

Useful information to avoid equipment damage



### Warning

Hazardous situation: if not avoided, could result in serious injury, even death and equipment damage



### Information

Useful information for safe and easy operation



### Caution

Potentially hazardous situation: if not avoided, may result in minor or moderate injury and equipment damage



### Useful tip

A useful tip to facilitate installation or operation

The information and instructions contained in this manual applies to units bearing the following serial numbers

PU-0382 and up

## GENERAL INFORMATION

Motorized access car serial number

Manufacturing date



HYDRO MOBILE  
www.hydro-mobile.com

125 de L'Industrie  
L'Assomption, Quebec, Canada  
J5W 2T9

For orders or information:  
1-888-484-9376 (US)  
(toll free in the United States)  
450 589-8100 (Canada)

30053200-0-00000-0

## Performance and Safety Rules



**SAFETY comes first.** The installation and operation of mast climbing equipment is subject to hazards that can be avoided only by using extreme care and common sense, and by providing the **appropriate training and supervision** to all its users.

It is essential that the **installation** and **dismantling** of a P Series motorized access system be carried out according to the guidelines, instructions and warnings included in the owner's manual and performed by **qualified erectors/dismantlers** under the supervision of a **competent person**. For the definition of a competent person, refer to the P Series owner's manual included with the motorized unit.

It is also imperative that the **operation** of a P Series motorized access system be carried out according to the guidelines, instructions and warnings included in this owner's manual.

**NOTICE**

It is mandatory to refer to the P Series owner's manual included with the motorized unit for complete instructions and for the definitions of qualified persons.

**NOTICE**

It is important to note that the P Series motorized access system can only be installed on P Series motorized units bearing the following serial numbers: PU-0382 and up. Motorized units bearing a serial number previous to those numbers are not compatible.

**General guidelines**

- 1- Never modify the mast climbing motorized access system or use substitute parts. This could adversely affect worker safety, unit performance and void the warranty. In addition, this could lead to serious injury or death.
- 2- It is recommended not to smoke inside the car.
- 3- Workers exposed to potential hazards must always wear proper personal protection equipment (PPE) such as a helmet, safety boots, a fall arrest harness, etc., as prescribed by local regulations. In all cases where workers are exposed to fall hazards, fall protection is required.
- 4- To ensure work efficiency, maintain an adequate equipment and parts inventory on the job site. Keep equipment in good condition.
- 5- Contact the distributor/service center or Hydro Mobile for service, repair or technical advice. Refer to equipment type and serial number when calling.
- 6- The qualified erectors/dismantlers in charge of the installation must make sure that the equipment being installed has been duly inspected and meets all applicable safety standards.

**When the installation is in use**

- 7- The access gate of the motorized access system must be closed when the car is moving or when it is docked under the motorized unit.
- 8- The motorized unit access hatch (red) must be closed when the motorized access car is not docked under the motorized unit.
- 9- In the event of an abnormal occurrence or operation which could compromise safety (for example, malfunction of a motorized access system component, collision with an obstacle, etc.), immobilize the car and inform the competent person. For the definition of a competent person, refer to the P Series owner's manual included with the motorized unit.
- 10- Do NOT touch any of the moving parts on the motorized access system when it is in use.

**Inspection and maintenance of the equipment and accessories**

- 11- Inspection and maintenance operations must be carried out efficiently and in a timely manner. Daily inspections and their related operations must be performed by a qualified user/operator every day or before every working shift. Frequent and annual inspections and their related operations must be carried out by a qualified technician. Refer to the P Series owner's manual included with the motorized unit for complete instructions on inspection and maintenance of equipment and accessories.

# Motorized Access System Motorized Access System – Overview

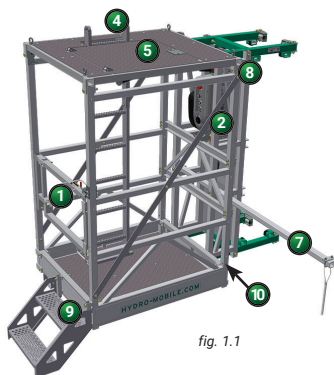


fig. 1.1

| Ref | Component                                             |
|-----|-------------------------------------------------------|
| 1   | Access gate                                           |
| 2   | Traction hoist controls                               |
| 3   | Limit switch trigger plate assembly                   |
| 4   | Ladder                                                |
| 5   | Roof access hatch                                     |
| 6   | Emergency descent device                              |
| 7   | Horizontal power cord support with cable pulling grip |
| 8   | Trolley frame                                         |
| 9   | Access stairs                                         |
| 10  | Trolley rubber bumper                                 |



fig. 1.3

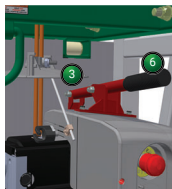


fig. 1.4

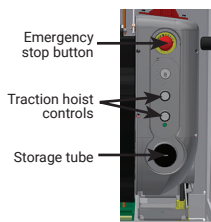


fig. 1.5



fig. 1.6

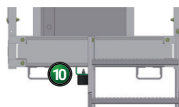
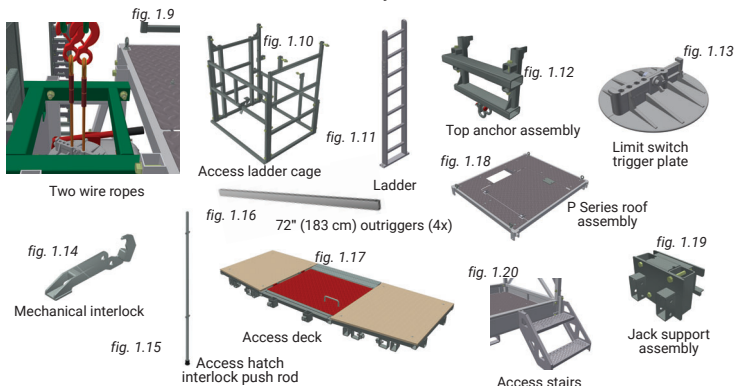


fig. 1.7

fig. 1.8

| List of components included with shipped system |                                                      |     |                           |
|-------------------------------------------------|------------------------------------------------------|-----|---------------------------|
| Qty                                             | Component                                            | Qty | Component                 |
| 1                                               | Motorized access car (including trolley frame)       | 1   | Access ladder cage        |
| 1                                               | Traction hoist with components                       | 1   | Two wire ropes with hooks |
| 1                                               | Horizontal power cord support                        | 1   | Top anchor assembly       |
| 1                                               | Access stairs                                        | 1   | Access deck               |
| 1                                               | Mechanical interlock for motorized unit access hatch | 4   | 72" (180 cm) outriggers   |
| 1                                               | Access door interlock push rod                       | 1   | Jack support assembly     |
| 1                                               | Limit switch trigger plate                           | 1   | Owner's manual            |
| 1                                               | Ladder                                               |     |                           |

## Motorized Access System Motorized Access System – Overview



## Motorized Access System Specifications

fig. 1.21

| General Specifications                          |                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions of the motorized access car assembly | 46" x 89" x 86" (W x L x H)<br>(117 cm x 226.5 cm x 218.5 cm)<br>(as shipped)<br><br>92" x 108" x 100" (W x L x H)<br>(234 cm x 274.5 cm x 254 cm)<br>(fully assembled) |
| Travel speed                                    | 35/min (11 m/min)                                                                                                                                                       |
| Capacity                                        | Maximum 3 persons (no material)                                                                                                                                         |
| Lifting system                                  | Wire rope traction hoist (two-wire rope setup)<br>8.2 mm, TAURUS 5 x 26WS<br>with 2-ton capacity hooks                                                                  |
| Weight of the motorized access car assembly     | 630 lb (286 kg) (fully assembled)                                                                                                                                       |
| Weight of the access deck                       | 170 lb (77 kg)                                                                                                                                                          |
| Weight of the top anchor assembly               | 55 lb (25 kg)                                                                                                                                                           |
| Weight of access ladder cage assembly           | 110 lb (50 kg)                                                                                                                                                          |
| Safety devices                                  | Emergency descent<br>Overspeed safety device<br>Top limit switch                                                                                                        |

fig. 1.22

| Power Requirements                                                                                                 |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Voltage                                                                                                            | 208V (+10%/-15%)                                                                     |
| Phase                                                                                                              | Single phase (1)                                                                     |
| Current draw                                                                                                       | 12A (at working load limit)                                                          |
| Power cord extension                                                                                               | SOOW 10/3<br>Length of power cord determined by maximum height of setup + 50' (15 m) |
| Customer power source                                                                                              | Female connector (HBL2323)<br>W/T boot (HBL6031)                                     |
| * For complete specifications, refer to the Spider traction hoist owner's manual included with the traction hoist. |                                                                                      |

### Motorized Access System

The motorized access system is used to facilitate access to a mast climbing work platform. Powered by a traction hoist system with two wire ropes, the motorized access system can transport up to three persons (no material) and reach or leave the platform without having to climb up or down the mast.

#### Installation Of The Motorized Access System



**SAFETY comes first.** It is essential that the **installation** of a P Series motorized access system be carried out by **qualified erectors/dismantlers** under the supervision of a **competent person** in accordance with all applicable local regulations.

For the definition of a competent person or a qualified erector/dismantler, refer to the P Series owner's manual included with the motorized unit.

It is mandatory to make sure that the motorized unit installation remains stable and secure throughout the maneuvers to remove the rear platform extension and install the motorized access system.

#### General Guidelines

- 1- Make sure that all loads have been removed from the motorized unit and that all workers have stepped down before removing the rear platform extension.
- 2- Make sure all the equipment necessary for a safe installation is on hand (adequate lifting device, slings, chains, etc., as required).
- 3- It is critical to make sure that the two wire ropes have a length appropriate for the height of the installation.
- 4- It is important to note that the use of the motorized access system is not suitable when certain types of work must be performed with the work platform, such as sandblasting, or if the car and the traction hoist could be exposed to corrosive material, acids, acid fumes, etc. Refer to the traction owner's manual for complete instructions.
- 5- It is important to note that a P Series motorized access system and a hoist system installed on the same installation cannot be used simultaneously.
- 6- It is important to note that the motorized access system cannot be installed on a motorized unit or a setup where the following is installed:
  - Sidewalk canopy \* (requires approval and the use of non-standard accessories)
  - Mast base plate \* (requires approval and the use of non-standard accessories)
  - Access bridge
- 7- When using the motorized access system in cold weather, it is important to refer to the traction hoist owner's manual for instructions.



#### WARNING

It is critical to make sure that the two wire ropes have a length appropriate for the height of the installation.



#### NOTICE

The use of the motorized access system may not be suitable when certain types of work must be performed, such as sandblasting, or if the cabin and the traction hoist may be exposed to corrosive material. It is important to refer to the traction owner's manual for complete instructions.



#### CAUTION

The motorized access system cannot be installed on a motorized unit where a sidewalk canopy\*, mast base plate\* or access bridge is installed. A hoist system and a motorized access system installed on the same motorized unit **cannot be used simultaneously**.

#### Installation Of The Motorized Access Assembly

**The following installation steps must be performed by qualified erectors only. For the definition of a qualified erector/dismantler, refer to the P Series owner's manual included with the unit.**

If the motorized access system was used with an M2 motorized unit, it must be converted to adapt to P Series equipment. For instructions on the conversion, refer to technical notice HMT-0270.

If the motorized access system is already adapted for P Series equipment, proceed with the following steps.

#### Removal Of The Rear Extension Platform

- 1- Remove the rear extension platform. For instructions on how to remove the rear extension platform, refer to p. 10 of this manual.

## Motorized Access System

### Installation Of The Motorized Access Assembly

#### Installation Of The P Series Motorized Unit

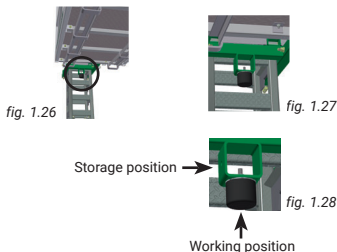
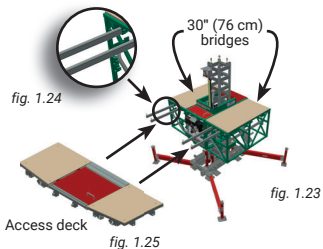
- 2- Make sure a legible copy of the P Series motorized unit owner's manual is at hand.
- 3- Install the P Series motorized unit following the installation instructions included in the P Series owner's manual. For instructions on the installation and use of any motorized unit component or other P Series equipment included in the following pages, refer to the P Series motorized unit owner's manual.
- 4- Open and secure all four base outriggers at a 30-degree angle.
- 5- Install at least two mast sections. Raise the motorized unit until it is at least 60" (152 cm) above the ground. There must be enough clearance to access the jacks located on the rear of the unit.
- 6- Remove the rear jacks from the base of the motorized unit. Install the jacks on the jack support and install the assembly at the bottom of the welded mast section on the base. For instructions on the assembly and installation of the jack support assembly, refer to p. 10.

#### Installation Of The Top Anchor Assembly

- 7- Install the top anchor assembly. For instructions on the installation of the top anchor assembly, refer to p. 11.
- 8- Hang the two wire ropes to the top anchor assembly.

#### Installation Of The Access Deck And Access Ladder Cage

- 9- Install two 30" (76 cm) bridges on either side of the motorized unit. It is **mandatory** to use **only** 30" (76 cm) bridges to install the access deck.
- 10- Install the access deck. For instructions on the installation of the access deck, refer to p. 11.
- 11- Install the access ladder cage under the access deck. For instructions on the installation of the access ladder cage, refer to p. 12.
- 12- Install the push rod for the interlock system. For instructions on the installation of the push rod, refer to p. 12.
- 13- Flip open the front rollers on the trolley of the car assembly. For instructions on the opening of the front rollers, refer to p. 13.



#### Preparation Of The Car Assembly

- 14- Install the horizontal power cord support. For instructions on the installation of the horizontal power cord support, refer to p. 13.
- 15- Install the ladder inside the car assembly. For instructions on the installation of the ladder, refer to p. 13.
- 16- Using a forklift or any other appropriate lifting device, lift the car assembly and install the rubber stopper in working position on the bottom of the trolley frame (fig. 1.26).
- 17- Raise the motorized unit until it is in the middle of the second full mast section. The motorized unit must be at least 9' (2.7 m) above base level.

#### Installation Of The Car Assembly And Its Components

- 18- Position the car **carefully** in line with the mast. It is important to be aware at all times of any possible interference with the motorized unit and the access ladder cage.
- 19- Move the car closer to the mast until the rear rollers are snug against it. Close and secure the four front rollers. Carefully lower the car until the rubber stopper is on the base and release the car from the lifting device.

## Motorized Access System

### Installation Of The Motorized Access Assembly

#### Installation Of The Car Assembly And Its Components (Cont'd)

- 20- Install the access stairs assembly. For instructions on the installation of the access stairs assembly, refer to p. 14.
- 21- Connect the power cord to the traction hoist and secure it carefully along the horizontal support.
- 22- Run the cable through the cable grip assembly and connect it to the power source.
- 23- Insert the primary suspension rope in the traction hoist. Refer to the traction hoist owner's manual for instructions.
- 24- Insert the secondary wire rope in the traction hoist. Refer to the traction hoist owner's manual for instructions.
- 25- Make sure to coil both wire ropes properly to avoid kinks.
- 26- Install the limit switch trigger plate. For instructions on the installation of the limit switch trigger plate, refer to p. 14.

#### Installation Of Guardrails

- 27- Install all required guardrails on the access deck and on the bridges. Refer to fig. 1.29 for the location of the guardrails on the access deck.

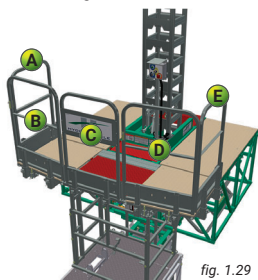


fig. 1.29

|          |                                    |
|----------|------------------------------------|
| <b>A</b> | 27" (69 cm) guardrail *            |
| <b>B</b> | 30" (76 cm) guardrail **           |
| <b>C</b> | 27" (69 cm) guardrail with panel * |
| <b>D</b> | 30" (76 cm) guardrail **           |
| <b>E</b> | 27" (69 cm) guardrail *            |

\* Provided with the P Series motorized unit  
 \*\* 1x provided with each 30" (76 cm) bridge

#### Final Verification Of The Car Assembly Installation

Once the car is installed, it is important to make a final verification and test the operation of various components.

- 28- Make sure the access gate and the roof access hatch are closed, then test the operation of the traction hoist by raising and lowering the car. For instructions on how to raise and lower the car, refer to p. 15.

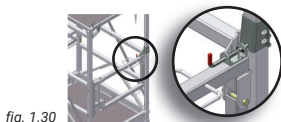


fig. 1.30

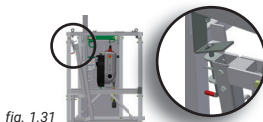


fig. 1.31

- 29- Test and adjust the operation of the limit switch by raising the car until the limit switch is triggered and the car stops. The car must stop at a height that allows the roof access hatch to raise and insert itself into the lock, and for the push rod to release the mechanical interlock on the access platform hatch (red). The distance from the top of the car to the frame of guardrail cage underneath the unit must be 11" (28 cm). For instructions on the adjustment of the top limit switch trigger plate, refer to p. 14.
- 30- Test the operation of the latch holding the car roof access hatch in a vertical position when opened.
- 31- Test the emergency descent procedure as described in the traction hoist owner's manual included with the traction hoist (in the storage tube).

## Motorized Access System

### Installation Of The Motorized Access Assembly

#### Final Verification Of The Car Assembly Installation (Cont'd)

- 32- Verify that the power cord is properly routed and secured to the horizontal support.
- 33- Make sure that the power cord is properly coiled at base level for safe re-coiling when the car returns to base level.
- 34- Secure the secondary rope to base level with a 25 lb (11 kg) weight to keep it taut during use. It is important to adjust the position of this weight whenever the height of the motorized unit is modified to avoid unwanted coiling of the rope.
- 35- Secure the tail of the primary suspension rope with a suspension loop and a wire rope clip. For more information, refer to the traction hoist owner's manual.



#### CAUTION

Before raising or lowering the car, make sure the access gate and the roof access hatch are closed.



#### WARNING

It is **mandatory** to secure the secondary rope to base level with weight. The ropes must not be attached to any part of the motorized unit, especially not to the base. It is important to adjust the position of this weight whenever the height of the motorized unit is modified to avoid unwanted coiling of the rope.

#### Removal Of The Rear Extension Platform

The installation of the P Series motorized access system requires the removal of the rear extension platform to allow the installation of the access deck. It is essential to proceed with care to avoid any crushing hazard.

- 1- Make sure that the motorized unit is at base level.
- 2- Remove the bolt assemblies attaching the rear platform extension to the structure at the bottom of the supports (fig. 1.33).
- 3- Support the rear extension platform and remove the bolt assemblies at the top and remove the extension (fig. 1.35). Store the extension properly.



fig. 1.33



fig. 1.34

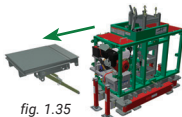


fig. 1.35

#### Assembly And Installation Of Jacks On The Jack Support

To avoid interference with the cage assembly, the rear jacks must be removed and installed closer to the mast section using the jack support assembly.

- 1- Remove the rear jacks from the base of the motorized unit (fig. 1.36).
- 2- Install the jacks on the jack support (fig. 1.37). Secure the bolt assemblies with a torque of 60 lb-ft (81 N-m).

fig. 1.36  
Jacks on the rear of the unit



fig. 1.37



fig. 1.38  
Jacks and jack support assembly

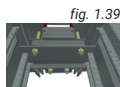


fig. 1.39  
Plate on jack support inside mast

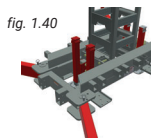


fig. 1.40

## Motorized Access System

### Installation Of The Motorized Access Assembly

#### Assembly And Installation Of Jacks On The Jack Support

- 3- Remove the rear plate from the jack support. Position the jack support assembly on the rear side of the mast section welded on the base and the rear plate on the inside of the mast section (fig. 1.38 and fig. 1.39, p. 10). Secure the assembly by tightening the bolt assemblies with a torque of 60 lb-ft (81 N-m).

#### Installation Of The Top Anchor Assembly

- 1- Remove the bolt assemblies from the top anchor assembly and separate the top ("A") and bottom ("B") parts (see fig. 1.42).
- 2- Bring the bottom part ("B") underneath and join with two 5/8" x 7" bolt assemblies.
- 3- Sit the top part ("A") on top of the bottom trusses of the structure of the unit (fig. 1.43).
- 4- Secure the assembly by tightening the bolt assemblies with a torque of 120 lb-ft or 163 N-m.

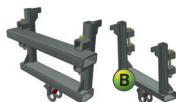
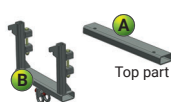


fig. 1.41

fig. 1.42  
Bottom part

Top part

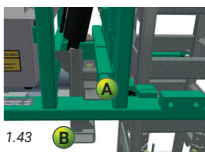


fig. 1.43

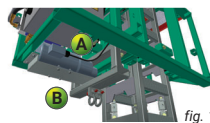


fig. 1.44

#### Installation Of The Access Deck

The installation of the P Motorized access system requires the installation of the access deck where the access ladder cage will be installed.

- 1- Make sure there are two 30" (76 cm) bridges installed on either side of the motorized unit. It is **mandatory** to use **only** 30" (76 cm) bridges to install the access deck.
- 2- Remove the plank stop pins from four 72" (180 cm) outriggers.
- 3- Insert each outrigger in a top outrigger pocket of the 30" (76 cm) bridges (fig. 1.45) enough to get them through the outrigger pockets located inside the bridge structure. Tighten the pocket bolts by hand.

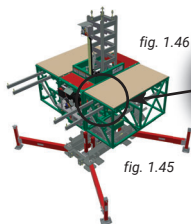


fig. 1.45

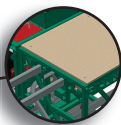


fig. 1.46

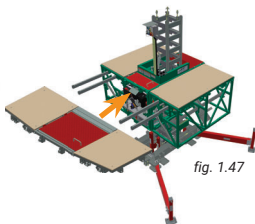


fig. 1.47

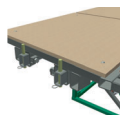


fig. 1.48

- 4- Lift and align the access deck pockets with the outriggers on the bridges.
- 5- Carefully slide the access deck on the outriggers until it is against the structure. Insert a plank stop pin assembly in each outrigger (fig. 1.48).
- 6- Loosen the pocket bolts and push in each outrigger until the plank stop pin is snug against the access deck.
- 7- Tighten all outrigger pocket bolts with a torque of 30 lb-ft or 41 N-m.

## Motorized Access System Installation Of The Motorized Access Assembly

### Installation Of The Access Ladder Cage

The installation of the P motorized access system requires the installation of the access ladder cage under the access deck.

- 1- Align the access ladder cage under the access deck.
- 2- Bolt all four posts of the access cage to the access deck structure using two 5/8" x 3" bolt assemblies for the left side (shown as "1" in fig. 1.50) and two 5/8" x 4" bolt assemblies for the right side (shown as "2" in fig. 1.50).

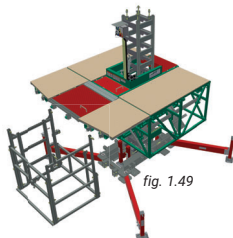


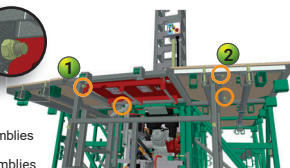
fig. 1.49

fig. 1.51



1 5/8" x 3" bolt assemblies

2 5/8" x 4" bolt assemblies



○ Location of bolts

fig. 1.50

fig. 1.52



Push rod

fig. 1.54

Bolt assembly under top guide bushing

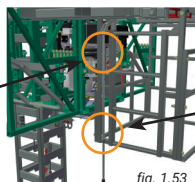


fig. 1.53

○ Location of bolts



fig. 1.55

Bolt assembly above bottom guide bushing

- 3- Remove the bolt assemblies at the top and bottom of the push rod (fig. 1.52).

- 4- Slide the push rod up inside the guide bushings. Secure the rod in place with a bolt assembly inserted under the top guide bushing and a bolt assembly above the bottom guide bushing (fig. 1.54 and fig. 1.55).

fig. 1.57

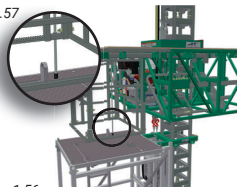


fig. 1.56

Push rod on car roof

fig. 1.58



Mechanical interlock engaged

Mechanical interlock disengaged

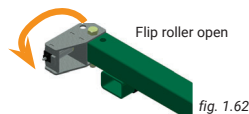
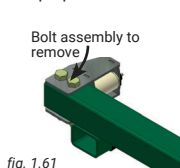


fig. 1.59

## Motorized Access System Installation Of The Motorized Access Assembly

### Opening And Closing The Front Rollers

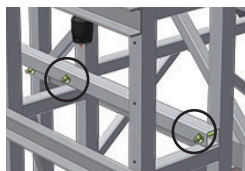
- 1- Using a 15/16" wrench, take away the rear bolt assemblies from each of the four front rollers (at the top and bottom) on the car assembly, as shown in fig. 1.60.
- 2- Flip open each of the front rollers, as shown in fig. 1.62.



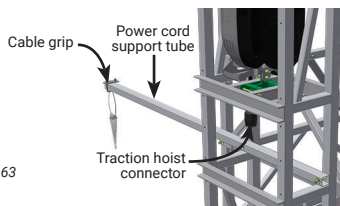
- 3- Once the car assembly is in place, close each roller and secure it with the bolt assemblies retrieved in step 1. Using the 15/16" wrench, tighten the bolt assemblies securely without overtightening. **Do not use an impact tool to tighten the bolt assemblies.**

### Installation Of The Horizontal Power Cord Support

- 1- Insert the horizontal power cord support through the car structure and secure it to the vertical tubes with bolt assemblies, as shown in fig. 1.63.
- 2- Using a U-bolt assembly, install the cable grip assembly on the support (fig. 1.64), at approximately 6' (1,8 m) from the traction hoist connector inside the car.

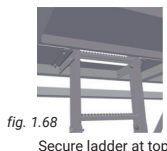
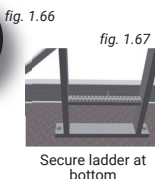
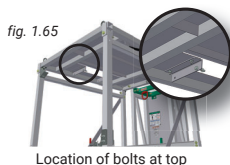


Location of bolt assemblies



### Installation Of The Ladder

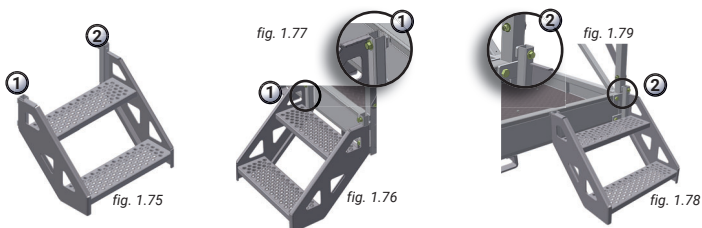
- 1- Insert the ladder inside the car and through the roof access hatch of the car.
- 2- Secure the ladder in place using bolt assemblies at the bottom of the car (fig. 1.67) and at the top of the car (fig. 1.68).



## Motorized Access System Installation Of The Motorized Access Assembly

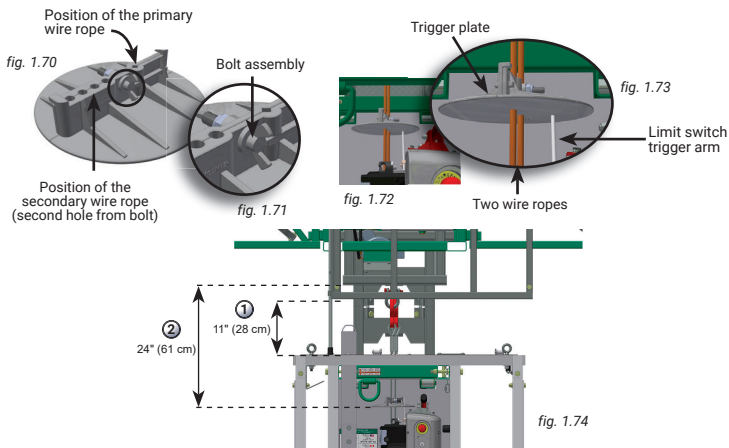
### Installation Of The Access Stairs

- 1- Align the access stairs (fig. 1.75) with the bottom of the access car.
- 2- Secure the access stairs in place using two bolt assemblies as shown in fig. 1.76 and fig. 1.78.



### Installation Of The Limit Switch Trigger Plate

- 1- Make sure the two wire ropes are properly hooked to the top anchor assembly.
  - 2- Remove the bolt assembly to separate the two halves of the trigger plate (fig. 1.71).
  - 3- Carefully bring the car in position under the motorized unit, making sure to stop no higher than 11" (28 cm) from the bottom tube of the access ladder cage.
  - 4- Position the two halves of the trigger plate around the primary and secondary wire ropes (fig. 1.72). Make sure each wire rope is properly positioned, as shown in fig. 1.70, and that the trigger arm cannot enter any of the holes in the plate. Secure the two halves with the bolt assembly, but do not tighten it yet.
- Before bringing the two halves of the trigger plate together, give the wire ropes a half turn. This will allow the trigger plate to rotate back to its proper position when released.

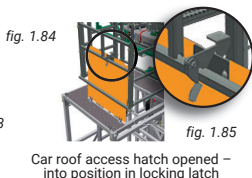
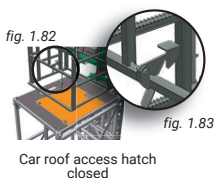
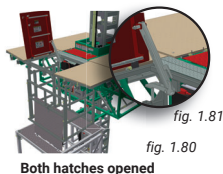


## Motorized Access System

### Installation Of The Motorized Access Assembly

#### Installation Of The Limit Switch Trigger Plate

- 5- Measure the distance between the top of the car assembly and the bottom tube of the access ladder cage ("1", in fig. 1.74, p. 14). The top of the car must be at least 11" (28 cm) from the bottom tube of the access ladder cage.
- 6- Adjust the height of the trigger plate so it is 24" (61 cm) under the bottom tube of the top anchor assembly ("2", in fig. 1.74, p. 14).
- 7- Lower the car on the first full mast section, then bring it up again until the limit switch stops the car. Lift open the roof access hatch door on the car and make sure that it is properly inserted into the notch of the locking latch (fig. 1.83), and that the push rod has lifted the mechanical interlock of the access deck hatch (fig. 1.81).  
If necessary, adjust the height of the trigger plate to make sure that the push rod lifts the mechanical interlock of the access deck hatch.

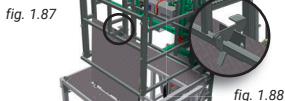
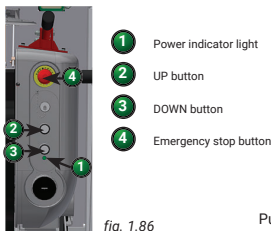


\* Car roof access hatch colored for clarity purposes

### Using The Motorized Access Assembly

#### Preparation Of The Motorized Access System

- 1- Make sure an appropriately trained operator is available to operate the car.
- 2- Perform the daily inspection of the motorized access system.



#### Raising The Motorized Access System

- 1- Close the car access gate. Make sure the roof access hatch is closed.
- 2- Pull out the emergency stop button to power on the traction hoist (see fig. 1.86). If the power indicator light does not turn on, push in the emergency stop button and refer to the traction hoist owner's manual for troubleshooting.
- 3- Press and hold the UP button to raise the car.

## Motorized Access System Using The Motorized Access Assembly

### Raising The Motorized Access System (Cont'd)

- 4- When the limit switch trigger stops the car, release the UP button and push in the emergency stop button to power off the traction hoist.
- 5- Lift open the roof access hatch door on the car and make sure that it is properly inserted into the notch in the locking latch. Make sure that the push rod has pushed up the mechanical interlock (fig. 1.89, p. 15) to allow opening the access deck hatch (red). It is important to **call out a warning to other workers on the platform before opening the access deck hatch.**

### Lowering The Motorized Access System

- 1- When the last person has descended into the car, close the access deck hatch properly.
- 2- Make sure the roof hatch closes automatically once the car departs from the docked position.
- 3- Pull out the emergency stop button to power on the traction hoist (see fig. 1.86, p. 15). If the power indicator light does not turn on, push in the emergency stop button and refer to the traction hoist owner's manual for troubleshooting.
- 4- Press and hold the DOWN button to lower the car.
- 5- Carefully monitor the descent as the car moves down from the motorized unit to make sure the roof access hatch closes properly.
- 6- Carefully monitor the descent as the car approaches base level to make sure there are no obstacles under it and that the access stairs are seated properly.
- 7- Once at base level, release the DOWN button and push in the emergency stop button to power off the traction hoist.

### Using The Emergency Descent System

In the event of a power outage or any incident, it is recommended to use the emergency descent system to bring the workers and the motorized access car safely to base level. Follow the instructions included in the traction hoist owner's manual. Lower the red lever on top of the traction hoist control box when instructions require to raise the emergency descent lever.



fig. 1.90



fig. 1.92



fig. 1.91



Call us for information:  
1-888-484-9376 (US)  
(toll free in the United States)  
(450) 589-8100 (Canada)