



Panther Pro

TOOLS FOR THE PROFESSIONAL

Instruction MANUAL

Version 02 October 2020

FIT GLASS 40

automotive glass installation system.

*The Professional's Choice
For Fitting Large Automotive Glass*

Kit Ref: PP-WST200KIT COMPRISED OF:

PP-WST200 : WINCH HEAD UNIT

PP-WST200S : SUPPORT FRAME

PP-WST200A: SWING ARM ASSEMBLY



Dear Customer,

You new Panther Pro Fit Glass 40 system is a mobile device intended for use by 1 user to aid in the installation of glass weighing up to 40Kg into motorised vehicles. It is not intended to lift anything other than vehicle glass. Only use this system in a professional application after receiving the correct training.

Please read these instructions and keep them safe, so as to have them to hand when needed.

We are not liable for any accidents or damages caused by non-compliance of these instructions.

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PREFACE

- Please read this Instruction Manual carefully before you start using the electric winch. You will find many useful hints which will help you to use the system correctly.
- You are kindly requested to read this manual thoroughly, to follow scrupulously the instructions given and for safety reasons, avoid controlling, adjusting or performing procedures other than those specified.
- This winch has been designed and built in full compliance with machinery Directive 2006/42/EC.
- Foreword to the operating instructions The operating instructions are designed to familiarize the user with the winch and its designated use.
- The instruction manual contains important information on how to operate the Fit glass 40 System safely, properly and most efficiently. Observing these instructions helps to avoid danger, to reduce repair costs and downtimes and to increase the reliability and life of the winch.
- The instruction manual is to be supplemented by the respective national rules and regulations for accident prevention and environmental protection. The operating instructions must always be available wherever the system is in use. These operating instructions must be applied by any person in charge of carrying out work with and on the winch, such as operation including setting up, maintenance inspection
- Please read carefully before installing the machine. You will find many hints to keep the machine in its best condition, also to avoid the risk of accident.
- In addition to the operating instructions and to the mandatory rules and regulations for accident
- Prevention and environment protection in the country and place of use of the winch, the generally recognized technical rules for safe and proper working must also be observed.

Safety Information



- Always wear the correct protective equipment (safety shoes etc)
- It is not intended to lift anything other than vehicle glass.
- Do not touch the strap in movement
- Respect safe working load
- Do not over extend the strap
- Do not over extend the support arm
- Do not use in a wet or high wind environment
- Once the vehicle is correctly positioned centrally on the wheel base plate ensure that the vehicle cannot move by applying the hand brake and/or leaving the vehicle in gear if the handbrake is not functioning.
- Ensure that the wheel plate is secure before inserting the support arm
- Check the suction cups and that the winch is securely attached before lifting
- Do not let a secondary user assist you
- Before each use check the entire system for damage Do not use the system if any individual part is damaged
- Check that the winch has sufficient charge to complete the job
- It is preferable to use the tool on level ground. If used on an incline be aware of the possibility of the arm rotating.
- Always ask for help / advise if you are not sure of the systems operation
- Separate all parts when handling the system to reduce the overall weight to be lifted and adopt correct manual handling techniques.
- Keep members of the public at a safe distance
- Not for use in a ATEX environment
- Ensure that there is sufficient room between the plate upright and the car bodywork to be able to easily insert the support arm.
- Beware of any pinch points when unfolding the arm.
- Stop raising the stanchions when the red section of the arm is showing.
- Always ensure that the locating pin is correctly located and the secondary safety knob is in place before lifting.
- Do not remove the winch housing, all repairs should be carried out by a certified Panther Tools distributor.
- Only use on hard surfaces.
- Do not assist the winch in lifting the load.



I fully understand all the warnings herein

Name:..... Signature: Date:.....

Machine OVERVIEW

FIT GLASS 40

system is a mobile device intended for use by 1 user to aid in the installation of glass weighing up to 40Kg /88lbs into motorised vehicles.

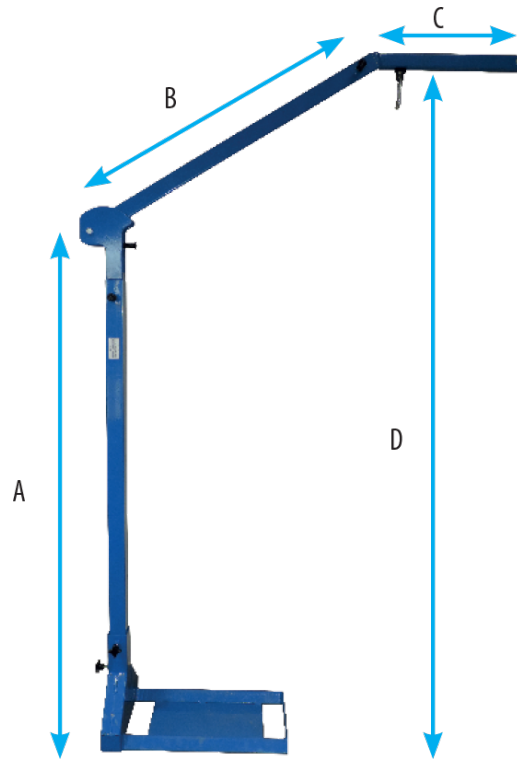
*Kit Ref: PP-WST200KIT COMPRISED OF:
PP-WST200 : WINCH HEAD UNIT
PP-WST200S : SUPPORT FRAME
PP-WST200A: SWING ARM ASSEMBLY*



- A fully motorized glass removal and fitting system
- The Fit-Glass enables a one man fit of wind- screens and panoramic roofs
- Unlike other one-man systems you do not fix the tool to the vehicle.
- The Fit-Glass system takes all the weight of the glass so eliminating any strain on the technician.
- With its hand held speed controller that is fitted to the suction cup, the technician can control with ease the speed of descent. This enables an easy and precise fit of glass even when it requires a "below bonnet / hood" replacement.

System

CONTENTS & SPECIFICATIONS

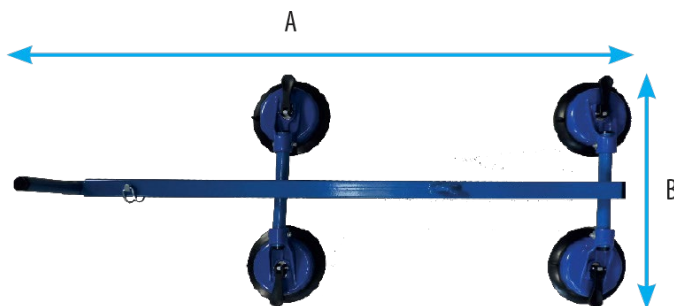


Model	FITGLASS ARM
Maximum load	40,00 kg / 88 lbs
Length A	1600 - 3280 mm / 63 inch - 129inch
Length B	900 - 1150mm / 36 inch - 45inch
Length C	400 mm / 16 inch Max reach 1500mm / 59inch
Length D	2000 - 3900mm / 79 inch - 153inch
Arm Weight	21,50 kg / 47Lbs
Foot Weight	11,00 kg / 24Lbs
Total Weight	32,50 kg / 71Lbs

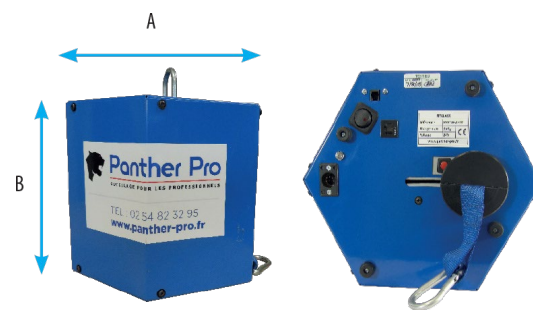


Model	Commercial Stanchion Bracket
The bracket is used to stabilize the main arm when the commercial extension stanchion is not used. Insert into the foot before fixing the standard stanchion into place.	

Model	Support Frame
Maximum Load	40,00 kg / 88lbs
Dimensions	A : 1 000 mm / 39inch B : 400 mm / 16inch
Weight	5,00 kg / 11lbs
Suction Cup	Ø 140 mm / 5.5 inch
Part Number	PP-WST200S

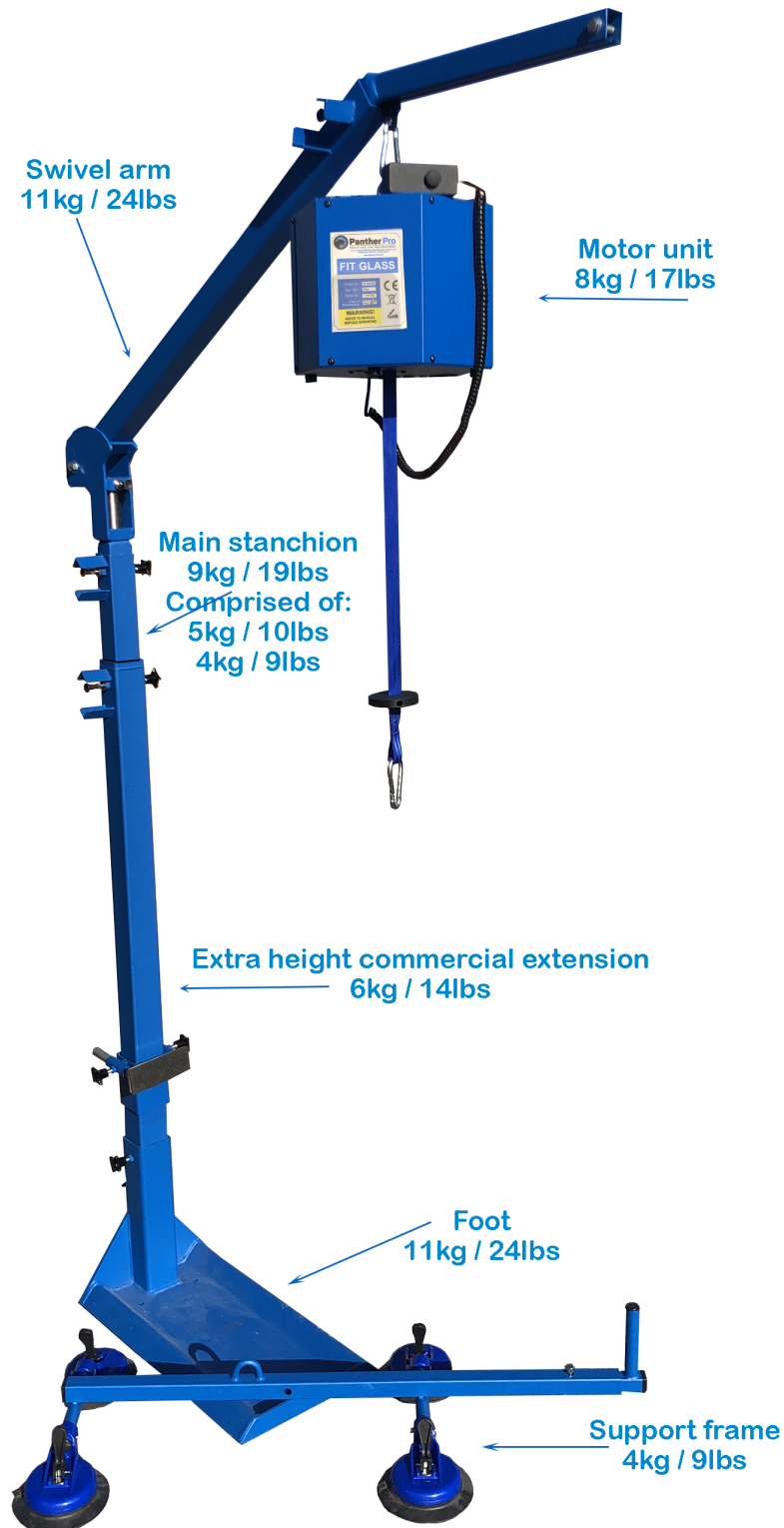


Model	FITGLASS WINCH
Maximum Load	40,00 kg / 88lbs
Voltage	24 V
Charger	220 V / 24 V
Strap length	2500 mm / 99inch
Dimensions	A : 250 mm / 10inch B : 270 mm / 11inch
Weight	8,90 kg / 19 lbs
Part Number	PP-WST200



The arm assembly can be split down into 3 separate parts to reduce weight: Main Stanchion: 8kg / 17lbs
Commercial Extension: 7Kg / 22lbs
Swivel Arm: 6.7kg / 15lbs

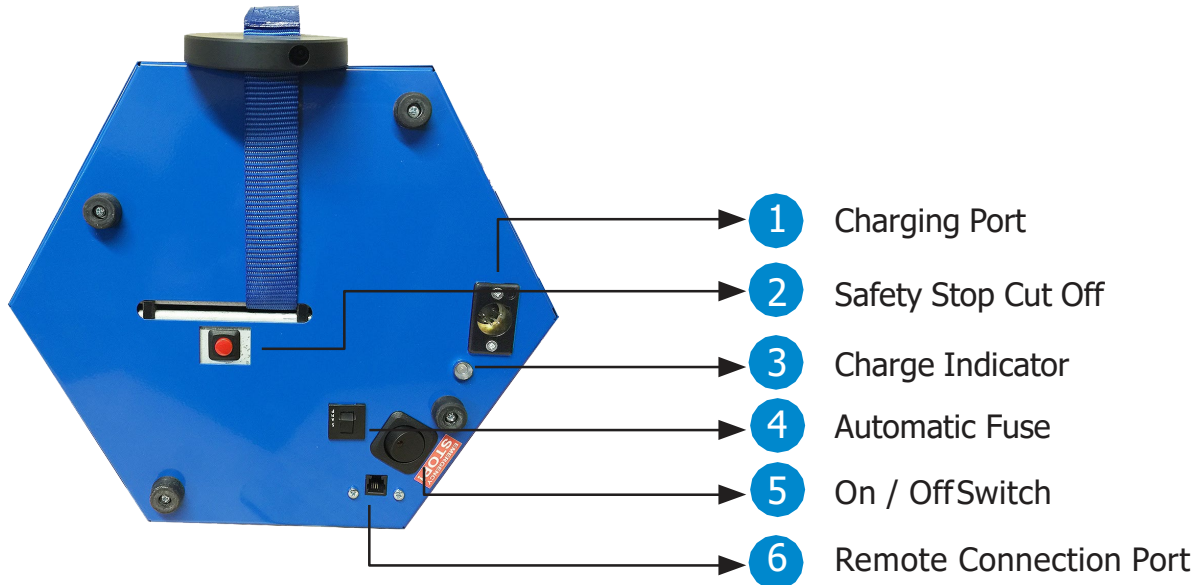
System Weight SPECIFICATIONS



The arm assembly can be split down into 4 separate parts to reduce weight:
Main Stanchion: 2 Parts 5kg / 10lbs + 4kg / 9lbs Total 9kg / 19lbs
Commercial Extension: 6Kg / 14lbs
Swivel Arm: 11g / 24lbs

Fit Glass 40

Controls



How to charge your Fit Glass battery:

Plug in the mains charger to the charging port 1, If the batteries are very low it may take up to 48 hours to charge.

If charging from an Inverter it must be a Pure / True Sine wave type inverter otherwise it may damage the Fit Glass.

Do not leave the charger plugged into the Fit Glass if the mains power is not on, otherwise this will drain the batteries.

The charge indicator 3 shows 3 levels of charge:

- 1. Green.....Fully charged ●
- 2. Yellow.....50% Charge ●
- 3. Red.....Do not start job. ●
Battery must be recharged to avoid damage.



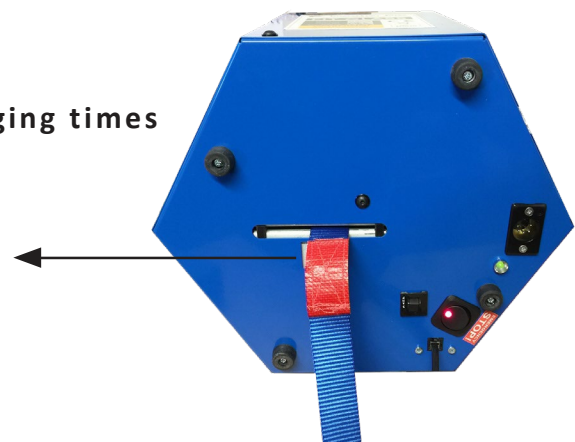
The remote control has a speed sensitive controller button. Use slow and steady inputs to the button to avoid jerky movements that will cause a bouncing of the glass and hinder a smooth fitment.

CHARGE EVERY NIGHT IF POSSIBLE

To avoid battery damage and excessively long charging times

The red tag indicates that you are at the end of the strap and not to go any further. If you continue to unwind the strap it will result in a tool malfunction and may damage the Fit glass. If you do go too far the strap will re-spool the wrong way and the direction of travel will become inversed

The safety stop cut off switch 6 prevents the support frame from coming into contact with the winch body.



Fit Glass 40 Assembly

If you are using the system in a mobile situation and the parts are stored in your vehicle, we recommend keeping the stanchions upright at the rear of the vehicle for a safe lift when removing them for use. If you are not sure about lifting the stanchions assembled split the individual parts down for a lighter lift. Always refer to your company's manual handling regulations before lifting. Do not use in heavy rain, high winds and when there is a risk of lightning. On slopes the arm will rotate and settle at the lowest point.



Find a level space, ensuring that there is enough room to walk around the vehicle with the piece of glass attached to the winch. Place the support arm wheel plate in front of the tyre that you will be using to hold the plate. When installing a panoramic roof use the rear wheel.

Drive onto the plate and then put the car in neutral so that it settles in the middle of the plate.

WARNING

Always position the vehicle on the plate in a safe manner. Once the vehicle has settled ensure the handbrake is on and/or the vehicle is in Park or in Gear



Ensure that there is sufficient room between the plate upright and the car bodywork to be able to easily insert the support arm. We recommend leaving minimum 10cm

WARNING

Never attach or remove the support arm on the plate without making sure that the plate is securely fixed under the wheel.



Before inserting the upright stanchions evaluate the vehicle to see if you require the extra height commercial stanchion. See Page 10.



Insert the support arm and tighten the two screws in the wheel plate upright. Unfold the arm taking care not to touch the vehicle. Beware of any pinch points when unfolding the arm.

WARNING

Make sure that the arm is securely inserted into the foot and that the 2 screws are tightened.

If you are not using the commercial stanchion insert the small angle plate into the foot plate to ensure a secure positioning of the main stanchion



Attach the winch to the unfolded arm.

Use a step/platform to make attaching the winch easier.

WARNING

Make sure that when letting go of the winch the arm does not rotate unexpectedly. If it does find a more level area.



How to use the Fit Glass 40 Extra Height Double Mast



When adding the commercial extension to the main stanchion we recommend you use a trestle or suitable height surface and slide the 2 stanchions together horizontally. This reduces the risk of injury compared to attaching them when vertical.

We recommend using the commercial stanchion with heavy glass and when extra height is required. For example: Sprinter, high roof transit, HGV, Semi's

Extend the upper vertical support. Ensure that the pin is correctly located and screw in the safety knob.

WARNING

Once the upper section is raised there is always one hole that is covered. Ensure that the lower section locating pin is aligned with an open hole, if not there is a risk of the arm dropping suddenly and causing possible damage to the vehicle.



EXTENDING THE MAST

When raising the mast, always extend the upper section first.

When lowering the mast, always lower the bottom section first.

Stop when the red section of the arm is showing.

Always control the stanchion you are moving with your free hand.



Raise the wheel support up in line with the tyre, loosen the side securing screws and extend the support until it touches the tyre, tighten screws back up.



Once you have achieved your desired height using the lower vertical support ensure that the spring pin is correctly located and tighten the large security knobs to ensure the risk of a sudden drop is minimized.



Remember to check all pins are correctly located and security knobs are in place before using the arm.

Fit Glass 40

OPERATION



Making sure that the winch does not touch the vehicle, rotate the arm to check that when the winch is in the middle of the horizontal arm it is in the middle of the vehicle

WARNING

You can extend the upper part of the support arm, this will extend the horizontal part of the arm. Do not over extend the arm.



Attach the remote and power up the winch. Make sure that the strap lowers correctly. Unlock the locating pin on the main upright. This will let you extend the vertical part of the support arm. You want the winch to be as high as possible, this makes moving the glass easier. Always ensure that the winch motor is above the roof of the vehicle

WARNING

Do not over extend the arm. Always control the stanchion with a free hand to ensure that there is no risk of the arm dropping



Place the suction cup frame on the glass and secure correctly. The frame should be in the middle of the glass. The higher the frame is on the glass the more inclined the glass will be.

Attach the winch to the frame and the remote to its support. This can be placed anywhere that is comfortable. Remember that as long as the suction cups are fixed correctly you can use the Fit Glass to remove the damaged glass.

You are now ready to take out the old glass or fit the new part. The remote has a speed sensitive button that enables a very smooth movement of the strap.

If you move the controller too fast you will cause the glass to "bounce" this will greatly increase the difficulty of a smooth fit.

We always recommend a dry fit to ensure that the suction cups are correctly placed to make the fit as easy as possible.

When using the system to fit panoramic glass roofs use the rear wheels as the support.



Fit Glass 40

Inspection & Maintenance

The Fit glass 40 is designed for minimum maintenance, however some safety checks are required.

Daily check list:

We strongly recommend the following checks are carried out on a daily basis and before using the system.

- **Examine** the strap for any signs of excessive wear. If the strap is cut do not use, if the strap is frayed over 2mm do not use. If in doubt DO NOT USE
- **Ensure** that the red safety button is working correctly. To do this wind out at least 50 cm of strap. Taking a suitable tool commence winding back the strap and with the tool push the red button. The motor should cut out immediately. If this does not happen DO NOT USE.
- **Ensure** that all parts are moving freely. If they do not move freely do not use.
- **Ensure** that the suction cups are clean and free of damage.
- **Examine** the carabiners and make sure they close correctly and are not damaged. If they do not close correctly do not use.
- **Check** that the metal work is free from structural damage and all the welds are intact. If structural damage is present or the welds are damaged do not use.
- **Ensure** that the bearing slider moves freely. If you do not have a full range of movement on the bearing slider do not use.
- **Confirm** that the locating pins are free moving and locate correctly. If the pins do not locate easily and correctly do not use
- **Check** that the remote works correctly and when you let go of the control button the winch stops. If this does not happen do not use
- **Confirm** that the battery has enough charge to complete the task. If it does not show a green light charge the unit before use.

Periodic check list:

- Every 6 months replace suction cups
- Take apart all the different elements of the system. Inspect all areas for damage and ensure that they are clean and free from dirt.

Call your distributor if you find any part of the system that appears to be defective.
ALL REPAIRS ARE TO BE CARRIED OUT BY AN AUTHORIZED DEALER
Always abide by your country's inspection legislation.

EC Declaration of Conformity

in accordance with the following Directives:

2004/108/EC	The Electromagnetic Compatibility Directive
2006/42/EC	The Machinery Directive

in conformity with the following standards

Ref. No.	Title
BS EN ISO 12100	Safety of machinery. General principles for design. Risk assessment and risk reduction
BS EN 14492-2	Cranes. Power driven winches and hoists. Power driven hoists
BS EN 61000-6-1	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments
BS EN 61000-6-3	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments

I hereby declare that the equipment named below has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the Directives.

Equipment	Replacement windscreen hoist (Fitglass)
Model number	PP-WST200
Serial Number	_____
Serial Number	_____
Serial Number	_____

Panther Tools and Products Ltd
Unit D, Vanguard Buildings, Britannia Road, Chesterfield, S40
2TZ, UK

Signed by:

Name: Mr Mark Holmes
Position: Director
Done at: Chesterfield
On: _____



The technical documentation for the machinery is available from the above address.

UKCA Declaration of Conformity

in accordance with the following Directives:

Electromagnetic Compatibility Regulations 2016

Supply of Machinery (Safety) Regulations 2008

in conformity with the following standards

Ref.No.	Title
BS EN ISO12100	Safety of machinery. General principles for design. Risk assessment and risk reduction
BS EN 14492-2	Cranes. Power driven winches and hoists. Power driven hoists
BS EN 61000-6-1	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments
BS EN 61000-6-3	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments

I hereby declare that the equipment named below has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the Directives.

Equipment	Replacement windscreen hoist (Fitglass)
Model number	PP-WST200
Serial Number	_____
Serial Number	_____
Serial Number	_____

Panther Tools and Products Ltd
Unit D, Vanguard Buildings, Britannia Road, Chesterfield, S40
2TZ, UK

Signed by:

Name: Mr Mark Holmes

Position: Director

Done at: Chesterfield

On: _____



The technical documentation for the machinery is available from the above address.



Panther Pro

TOOLS FOR THE PROFESSIONAL



Tips

Always place the vehicle squarely on the support foot before inserting the mast. Failure to do this will result in the winch support mast falling over.

Whenever possible use the Fit Glass system on level ground. Uneven ground may result in an unexpected rotation of the arm. When installing the arm ensure that the middle of the horizontal support is **aligned with the middle of the vehicle**.

When fitting panoramic roofs we recommend using the rear wheels as the support.

Look at the video on our web site before using the tool. If you require any further information please contact Panther Tools. You can use the system on either side of the vehicle.

If necessary use your vehicle as the support for the foot plate. This is useful when working on HGV/ Semi's.

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Technician Signature:.....

Date of Training:.....