



**Panther Pro**

TOOLS FOR THE PROFESSIONAL

# Instruction **MANUAL**

Update 02/2020

## **FIT GLASS**

*automotive glass installation winch.*

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

Serial Number:

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### Specification Details:

**PP-WST200KIT COMPRISED OF:**

**PP-WST200 : WINCH HEAD UNIT**

**PP-WST200S : SUPPORT FRAME**

**PP-WST200A: SWING ARM ASSEMBLY**

**OPTIONAL:**

**PP-WST200SHGV: HGV / VERTICAL  
GLASS SUPPORT FRAME.**

- A fully motorized glass removal and fitting system
- The Fit-Glass enables a one man fit of wind-screens and panoramicoofs
- 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.



## WARNING!



Always wear the correct protective equipment (safety shoes etc)

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 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

Not for use in a ATEX environment

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.

Refer to the general winch health and safety data sheet before using the winch

Read the quick start guide as well as the complete instruction manual.

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

We recommend changing the suction cups every 6 months



## DISCLAIMER

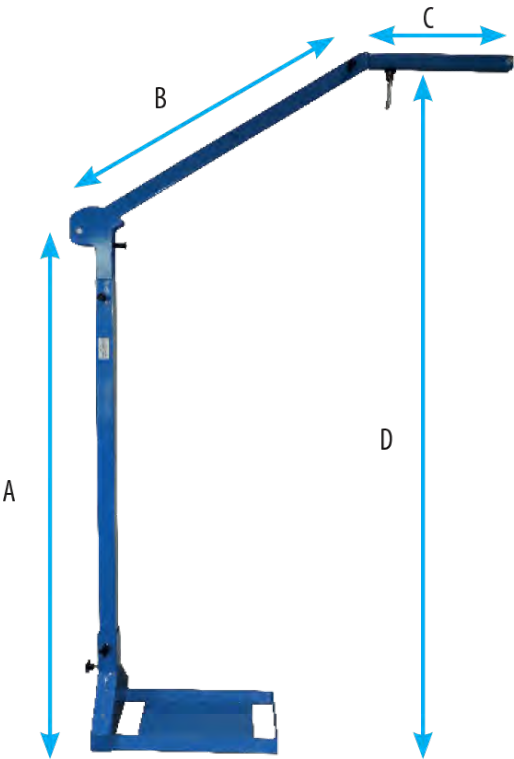


I fully understand all the warnings herein and have been advised and trained on the usage of the Fit-Glass tool.

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

# Kit

# CONTENTS

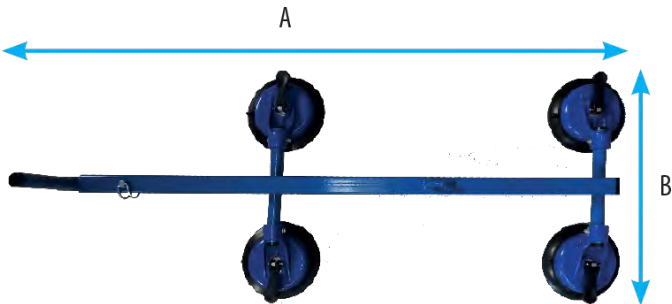


Model	FITGLASS ARM
Maximum load	35,00 kg / 78 lbs
Length A	1600 - 3280 mm / 63 inch - 129inch
Length B	900 - 1150 mm / 36 inch - 45inch
Length C	400 mm / 16 inch / Max reach 1500mm / 59inch
Length D	2000 - 3900 mm / 79 inch - 153inch
Arm Weight	21,50 kg / 47Lbs
Foot Weight	11,00 kg / 24Lbs
Total Weight	32,50 kg / 71Lbs

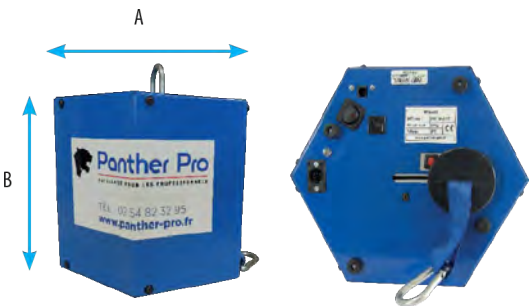


Model	Commercial Stanchion Bracket
The bracket is used to stabilize the main arm when the commercial extension stanchion is not used. Insert into the foot before fixing the standard stanchion into place.	

Model	Support Frame
Maximum Load	45,00 kg / 99lbs
Dimensions	A : 1 000 mm / 39 inch / B : 400 mm / 16 inch
Weight	5,00 kg / 11lbs
Suction Cup	Ø 140 mm / 5.5 inch
Part Number	PP-WST200S



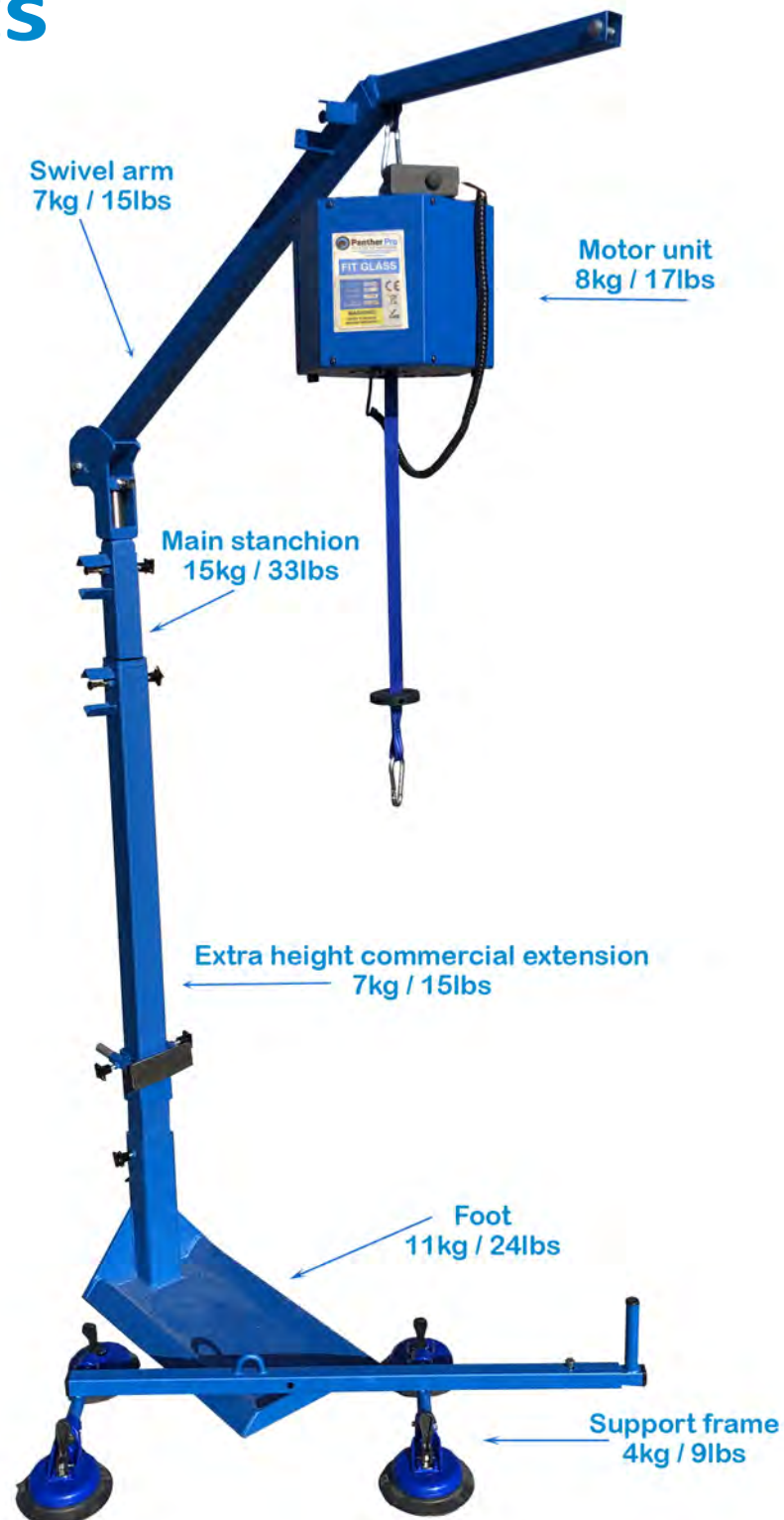
Model	FITGLASS WINCH
Maximum Load	35,00 kg / 78lbs
Voltage	24 V
Charger	220 V / 24 V
Strap length	2500 mm / 99 inch
Dimensions	A : 250 mm / 10 inch / B : 270 mm / 11 inch
Weight	8,90 kg / 19 lbs
Part Number	PP-WST200



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

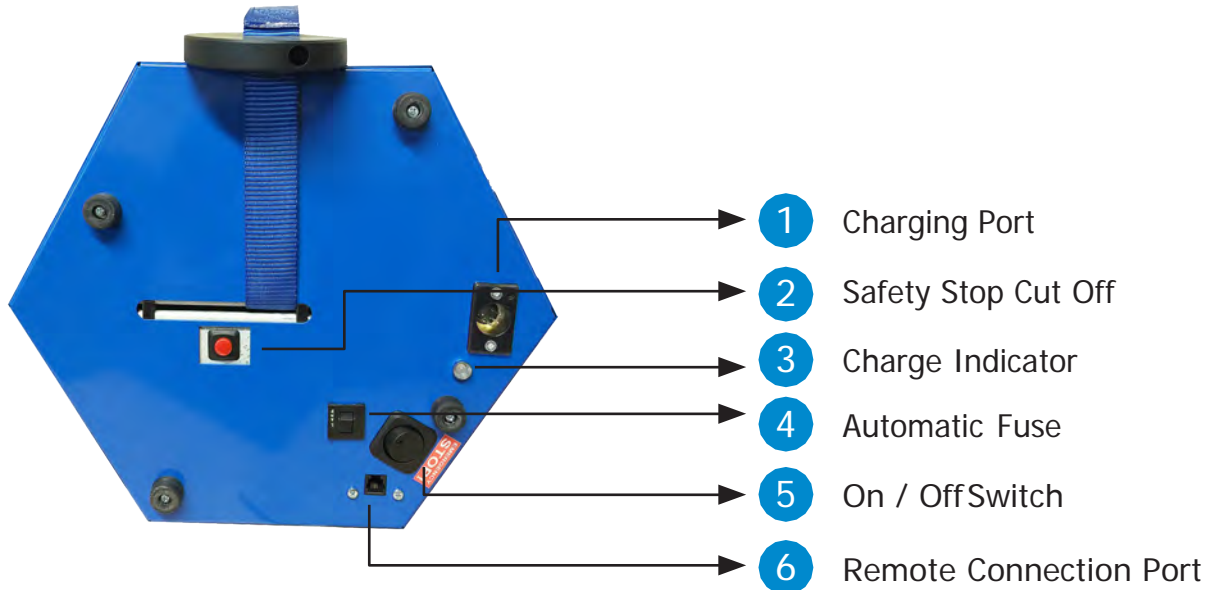
# Kit

## Weights



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

# Fit Glass Winch



## 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.



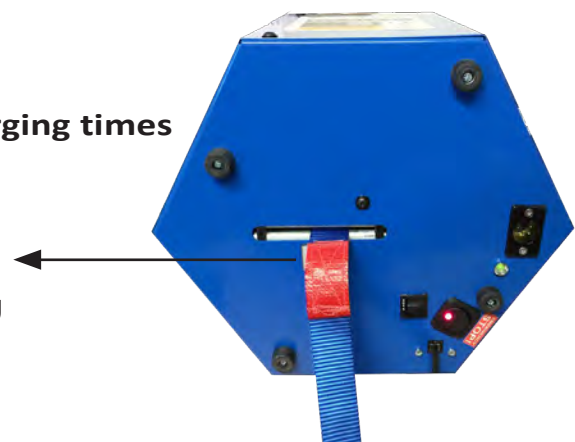
The remote control has a speed sensitive controller button. Use slow and steady inputs to the button to avoid jerky movements that will cause a bouncing of the glass and hinder a smooth fitment.

## 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.

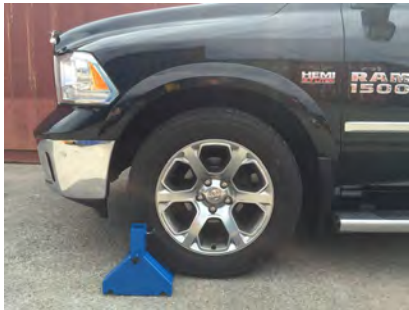
The safety stop cut off switch 6 prevents the support frame from coming into contact with the winch body.





# How to use the Fit Glass System

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 lightening. 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 drive onto the plate and reverse off it. 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 7.



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 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 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.



# How to use the Fit Glass System



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.

Before using the system please look at our video that can be found at: \*

Remember, when using the Fit Glass, you have no weight on your body so you can take your time and make sure the glass is positioned correctly ensuring a reduced risk of wind noise or water leaks.

[www.panther-pro.co.uk](http://www.panther-pro.co.uk)

*If you require any further assistance please contact us.  
Whenever you are manipulating the main vertical beam ensure that the  
unfolded support arm is positioned away from the car.*

## WARNING

Do not over extend the arm.



# General Health and Safety Information

## Regarding the uses of Winches

This document is issued in accordance with the requirements of Section 6 of the Health and Safety at Work etc Act 1974, amended March 1988. It outlines the care and safe use of WINCHES USED FOR LIFTING and is based on Section 6 of the LEEA Code of Practice for the Safe Use of Lifting Equipment.\*

It should be read in conjunction with the requirements for lifting appliances for general purposes, given overleaf, which form an integral part of these instructions.

This information is of a general nature only covering the main points for the safe use of winches used for lifting. It may be necessary to supplement this information for specific applications.

ALWAYS	NEVER
Store and handle winches correctly.	Raise loads by revolving the drum in the opposite direction to that indicated.
Inspect the winch, rope and accessories before use and before placing into storage.	Use winches with loose or insecure handles.
Ensure mounting and suspension points are secure and suitable for the full loads that will be imposed.	Use the pawl to arrest descending loads.
Lift the load just clear, halt for a short period to ensure the integrity of the brake or sustaining mechanism before completing the lift.	Use winches if the rope is twisted or trapped.
Use a speed appropriate to the specific application.	Overwind the rope on or off the drum.
Keep hands and feet clear of ropes, drums etc.	Use winches for man-riding applications unless they are specifically designed for that purpose.

## Installing and Commissioning

Follow the specific instructions for installation and commissioning issued by the supplier. Handle the rope carefully. If the winch fails to operate correctly contact the supplier.

## Using Winches Safely

Do not use defective winches, ropes, pulleys etc.

Check the rigging arrangement, that mounting and suspension points are secure and adequate for the imposed load.

Ensure the rope is not twisted and the load is free to move. Check operating handles are secure.

Raise the load just clear, halt the lift to ensure the integrity of the brake, slinging arrangement etc.

With manual winches, only the slow speed should be used to raise/lower loads. With power operated winches, select a speed appropriate to the specific lifting operation.

Ensure oil, water or other foreign matter does not come into contact with lined brakes.

If the direction of rotation is indicated the winch must raise the load when turning in that direction.

Check the rope and load travel paths are clear and you have a clear view so as to avoid accidents or collisions. Do not over wind the rope on or off the drum. Two turns must always remain on the drum. (Some manufacturers design for more and their recommendations must be followed.)

Keep fingers, toes etc clear of ropes, pulleys, drums and other moving parts.

# Instructions for the safe use of:

## Winches Used For Lifting

The information in this leaflet should be passed to the user of the equipment

### **RSDL ISU W INCHES USED FOR LIFTING V1 11 LIFTING APPLIANCES FOR GENERALPURPOSES (MANUAL AND POWER OPERATED BLOCKS)**

The following information is based on Section 1 - Appendix 1.6 of the Code of Practice for the Safe Use of Lifting Equipment\* and should be read in conjunction with the instructions for safe use, given overleaf, of which it forms an integral part and with any specific instructions issued by the supplier.

This information is of a general nature only covering the main points for the safe use of manual and power operated blocks.

ALWAYS	NEVER
Ensure suspension points and anchorages are adequate for the full imposed load.	Exceed the marked SWL.
Check the load chain/wire rope is hanging freely and is not twisted or knotted.	Use the load chain/wire rope as a sling.
Position the hook over the centre of gravity of the load.	Shock load the block or other equipment.
Check the operation of the brake before making the lift.	Lift on the point of the hook.
Ensure the slings are secure and load is free to be lifted.	Overcrowd the hook with fittings.
Check the travel path is clear.	Permit the load to swing out of control.
Ensure the landing area is properly prepared.	Leave suspended loads unattended.

## Types of Blocks

A wide range of manual and power operated blocks is available. This section of the leaflet is concerned with matters which are common to the safe use of the following listed equipment when used to lift in a vertical plane only.

Pulley blocks for fibre or wire rope used with winches, hand chain blocks, chain lever hoists, power operated wire rope blocks and power operated chain blocks. The use of trolleys is often associated with blocks and these may be built in with the trolley as an integral part of the appliance, or independent with the block hung on.

## Operative Training

Lifting appliances should only be used by trained operatives\*\* who understand their use and that of the associated equipment used in the lift.

## Installation and Commissioning

The erection procedure will vary with the equipment and should be carried out in accordance with the suppliers instructions paying attention to the following matters:

Prior to installation inspect the equipment to ensure no damage has occurred in store or transit.

Ensure the support structure is adequate for the full loads that will imposed, is tested and marked with the SWL.

When erecting trolleys ensure they are correctly set for the beam width and that the track is fitted with end stops and remains level at all loads up to the maximum.

When suspending appliances by a top hook ensure the support fits freely into the seat of the hook.

After erection ensure that the chain/wire rope hangs freely and is not twisted or knotted.

With power operated blocks the supply should be connected by a suitably Qualified Person taking account of any statutory or technical requirements (e.g. Electricity at Work Regulations, Pressure Systems and Transportable Gas Containers Regulations).

Test run to ensure the free and correct movement of the chain/rope. Check the operation of the brake. Check direction of control command, position and operation of travel limits and safety devices.

## Safe Use of Blocks

The basic objectives of any lifting operation are to move the load to the desired location and land it safely, efficiently and without damage to the load, the equipment used or the surrounding buildings, plant etc. In addition to any specific instructions relating to the block the following general points must be observed:

- Never attempt lifting operations unless you have been trained in the use of the equipment and slinging procedures.
- Position the hook directly over the centre of gravity so that the line of pull is vertical.
- Do not use the chain/wire rope to sling the load, ie do not wrap it round the load, back hook or choke hitch.
- Do not lift on the point of the hook or overcrowd the hook with fittings.
- Never lift/lower more than the marked SWL. In the case of manual equipment if abnormally high effort is required, and with power operated appliances they fail to lift the load, or if the load slips this is an indication of too high a load or a fault check the load and the appliance.
- Avoid unnecessary inching of power operated appliances and do not impose sudden or shock loads.
- Push rather than pull loads suspended from appliances with push/pull trolleys and if un-laden pull on the bottom hook. Never pull an appliance by the pendant control, supply cable or hose.
- Avoid sudden movement of travel motion or undue effort in pushing the load which can cause the load to swing.
- Avoid excessive or intentional use of motion limits unless they are additional limits intended for that purpose. Avoid running appliances against end stops.
- Do not allow anyone to pass under or ride upon the load. Never leave suspended loads unattended unless in an emergency then ensure the area is cordoned off and kept clear.
- Do not remove guards, protective covers, weather proof covers, heat shields etc without the authority of a Competent Person.

## In-Service Inspection and Maintenance

The Provision and Use of Work Equipment Regulations 1998 and the Lifting Operations and Lifting Equipment Regulations 1998 both require that lifting equipment properly maintained. This is an ongoing duty that falls on the user and a planned routine maintenance program will be necessary.

In addition to the statutory thorough examinations by a Competent Person, regular in-service inspections should be

made to find any faults and damage that might arise. If any are found they should be referred to the Competent Person. The maintenance program must meet the requirements of the manufacturer's instructions and any special requirements due to the conditions of service. This may be combined with maintenance of other equipment used in association with the appliance, e.g. power feed system. Check the block and its associated equipment daily for obvious faults and signs of damage.



## EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

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

*in accordance with the following Directives:*

2004/108/EC	The Electromagnetic Compatibility Directive
2006/42/EC	The Machinery Directive
2011/65/EU	The Restriction of Hazardous Substances Directive

*hereby declare under our sole responsibility that:*

Equipment	Replacement windscreen hoist (Fitglass)
Model number	PP-WST200
Serial Number	0232

*is in conformity with the applicable requirements of the following documents:*

Ref. No.	Title	Edition/date
BS EN ISO 12100	Safety of machinery. General principles for design. Risk assessment and risk reduction	2010
BS EN 14492-2	Cranes. Power driven winches and hoists. Power driven hoists	2006+A1:2009
BS EN 61000-6-1	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments	2007
BS EN 61000-6-3	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments	2007+A1:2011

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

Signed by: .....

Name:	Mr Mark Holmes
Position:	Director
Done at:	Chesterfield
On:	01/01/2017



Document ref. No.  
PP-WST200 CED

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 website 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:.....