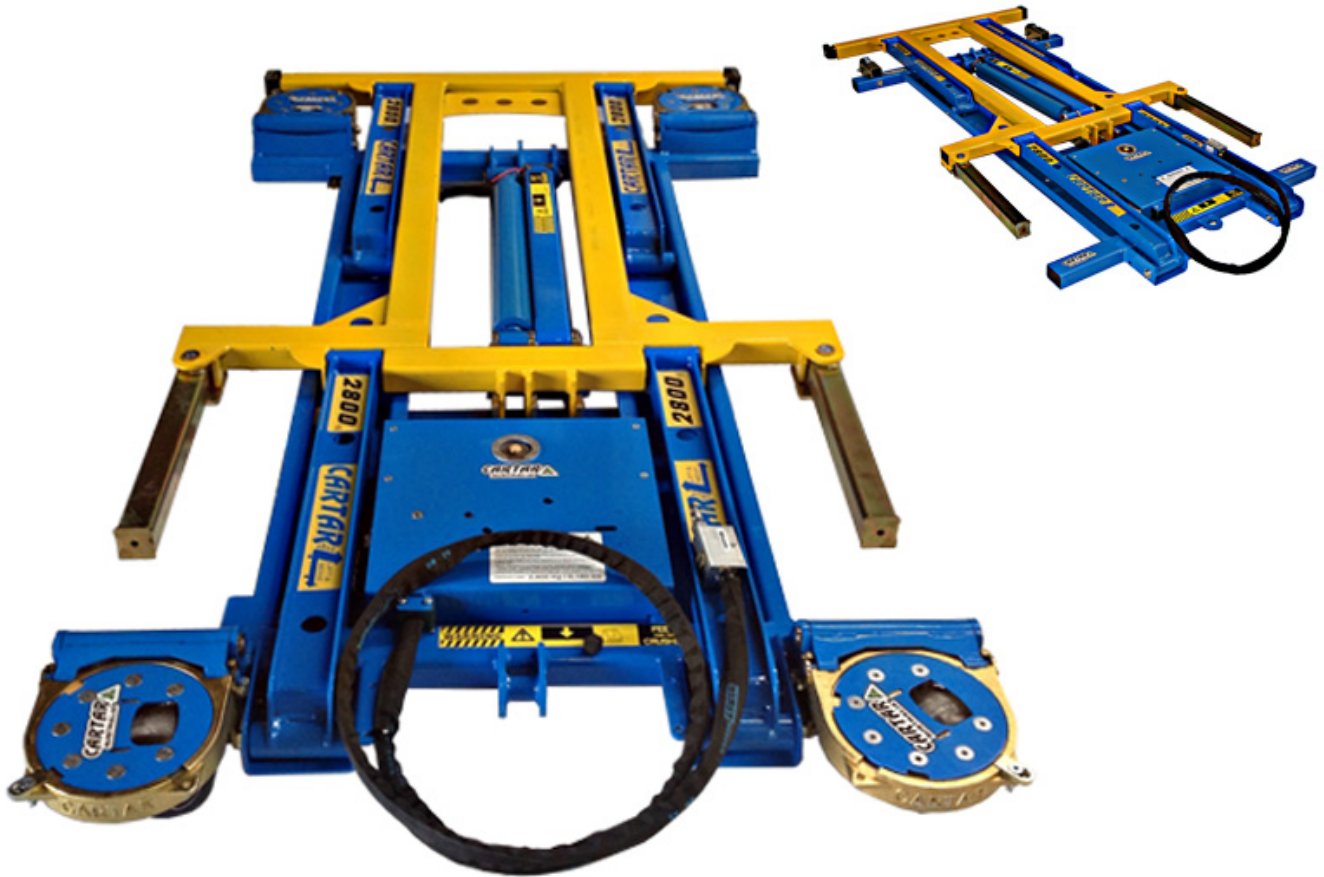


Operators Manual



CARTAR FL – MOBILE

Operation, Safety & Maintenance Instructions

EDITION 10 - SEPT 2015



INTRODUCTION

Dear Valued Customer,

Congratulations! You are the proud owner of one of the most innovative and relevant products available today for the new generation of modern workshops. Your Cartar Mobile Lift, when used to its full potential will:

- 1/ offer the “safe movement of damaged vehicles around a workshop” and*
- 2/ offer the tradesperson a “comfortable working environment”.*

Properly maintained, your Cartar Product will give years of reliable service and a more than generous return on your investment. Your Cartar Product is the result of years of major research and development that is now proudly protected by a series of Patents that are around the globe.

This Cartar Product is a superbly crafted machine that utilizes leading edge design, technology and componentry. This ensures ease of operation, maintenance, and most importantly, YOUR safety.

*Bill Carter,
Managing Director,
Cartar Australia.*

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WORLD WIDE PATENTS DO APPLY

ABOUT THIS MANUAL

The information contained in this manual has been prepared to assist you in the safe operation, the routine maintenance and the general care of your Cartar FL Lift. By following these guidelines you may look forward to years of reliable service from your Cartar FL Lift. In this manual, "Cartar FL Lift" refers to the specific Cartar Product that is identified in your warranty Registration Form. Information is denoted and categorized by the following symbols and phrases:



SAFETY FIRST

Identifies general Safety practices



DANGER

An instruction, which if NOT followed, could result in serious or fatal injury



WARNING

An instruction, which if NOT followed, could result in personal injury



CAUTION

An instruction, which when NOT followed, could Damage machine components

Although the reading of information contained in this manual does NOT eliminate the risk involved in operating this machine, your understanding will promote the correct and safe use of this machine.



This symbol means ALERT, which indicates that a message involves personal safety.

Death, personal injury and/or property damage may occur unless instructions are followed carefully



You are NOT ready to operate this Cartar Lift if you have not read and understood the following safety items. Read and understand this entire Operators Manual and the instructions involved with this piece of equipment

SAFETY FIRST

Read this section before use!

Because of its application, this Cartar FL Lift is potentially dangerous. Careless or improper use may result in serious or even fatal injuries.

It is important that you read and understand the contents of this manual and that you only allow mature, adult individuals to operate this machine. It is your responsibility to ensure that any individual who operates this machine has also read and understands this manual. To use this machine in a manner that is not intended may result in serious or even fatal injury and/or damage to this machine.

SAFETY PRECAUTIONS FOR THE USER

Use Common Sense & Plenty of it

- 1) Do Not allow any persons to operate this product without first reading and understanding the safety precautions and operating instructions.
- 2) Never allow children or minors to operate this machine.
- 3) Always operate this machine in well-lit areas.
- 4) Never operate this machine when fatigued. Always be alert. If you become tired while operating this machine, then render your machine safe and take a break. If you have a mental or physical condition that may be aggravated by strenuous work, consult your Physician before you operate this machine.
- 5) Never operate this machine under the influence of medication, alcohol or drugs.
- 6) Always keep your hands, feet and body away from any moving parts.
- 7) Always inspect this machine and make sure it is in top working condition before each use.
- 8) Always keep this machine in "Brake Locking" position when not being moved.
- 9) Never exceed the maximum Load of 2,800 kg / 6,160 lbs. of weight.
- 10) Never enter the inner frame of this machine when elevated.
- 11) Always keep load as low to the ground as possible when moving Machine horizontally.
- 12) Always maintain Hydraulic fluid levels to recommended levels.
- 13) Never apply external forces to vehicles on this machine.
- 14) Always make sure that the floor surface is clean and level before moving your machine horizontally.
- 15) Always make sure that your Rubber Pads are correctly positioned before placing a load on them.
- 16) Never lower or Raise your machine without your Hydraulic Ram fitted and operational.
- 17) Always keep power leads well away from your moving machine.
- 18) Always make sure that your load is secure and weight is evenly distributed on board your machine before elevating.
- 19) Never connect or feed an air source that EXCEEDS 100psi of 7 bar.
- 20) Never Raise or lower your machine unless you have a perimeter ground clearance of at least 3 (Three) metres.
- 21) Never place your hands, feet or person under your machine unless vehicle is secured and supported by axle stands at each corner.
- 22) Always respond immediately and remove load from your machine if there is any sign of worn or faulty parts.

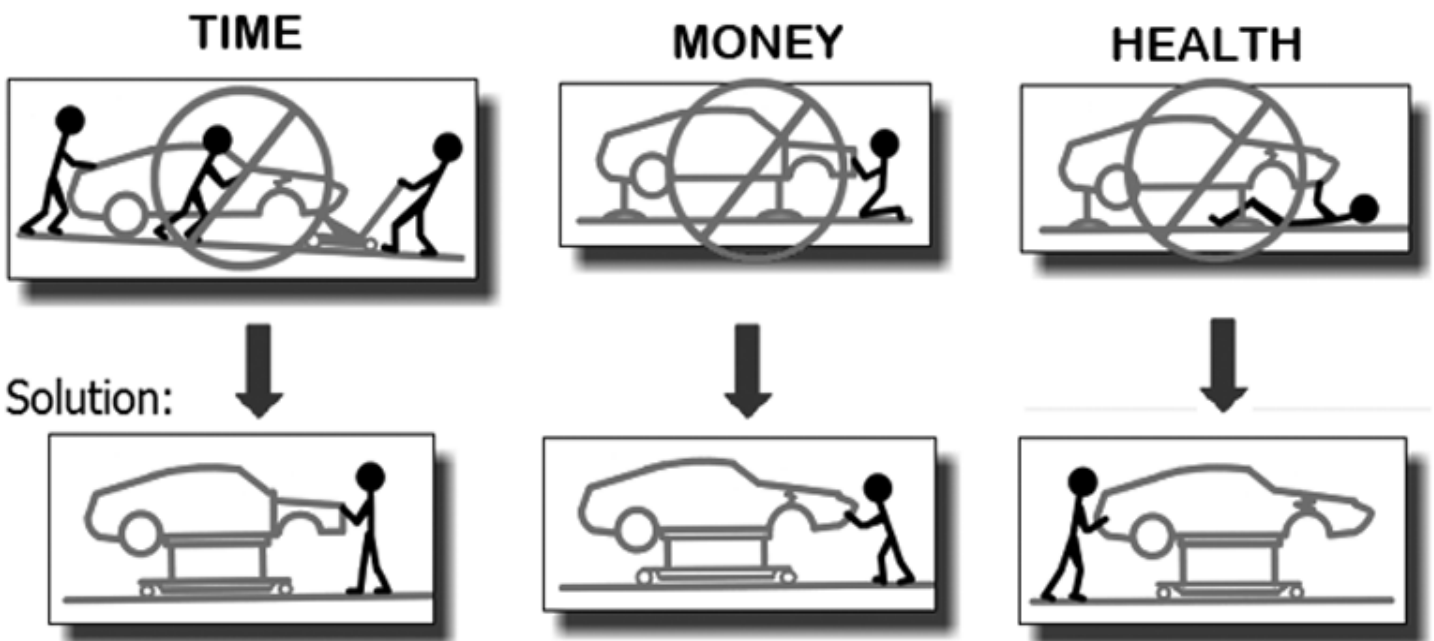
23) Always replace worn or faulty parts with Genuine Cartar Parts.

24/ Never work on vehicles on your Lift unless your Lift is in the “Brake Locking” position.

25/ Always move your Lift at the slowest possible speed when moving with a vehicle on board. (see page 7)

26/ Always make sure that feet are well clear of Lift when lowering to “Brake Locking” position.

27/ All spare parts and additional copies are available from your distributor or online at www.cartar.com.au



Fact 1: “Injuries reported whilst working under, or in the moving of damaged vehicles are increasing annually”

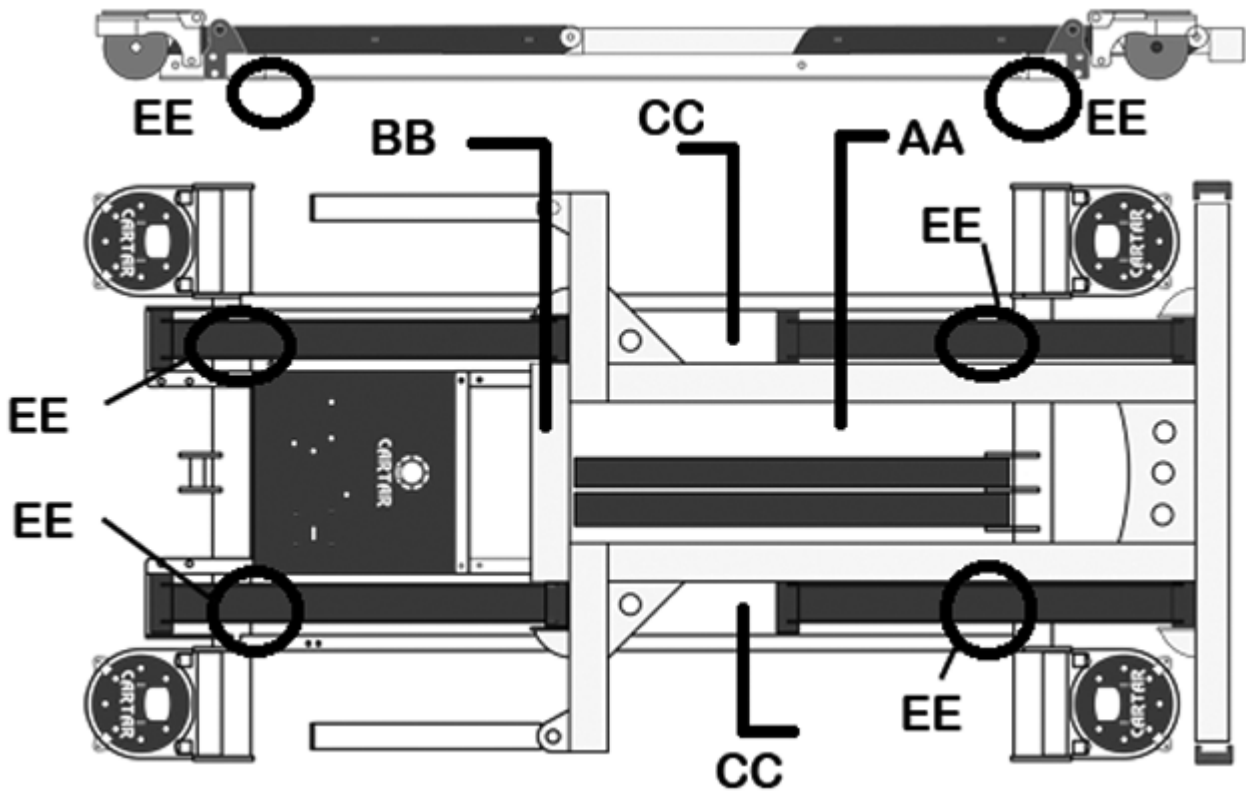
Fact 2: “Any tradesperson that is required to either lay or kneel on cold concrete for longer than 20 minutes may sustain irreparable physical injuries”

PLEASE HAVE COMPLETE KNOWLEDGE OF THIS MANUAL BEFORE USING YOUR CARTAR LIFT

UNPACKING & INITIAL ASSEMBLY

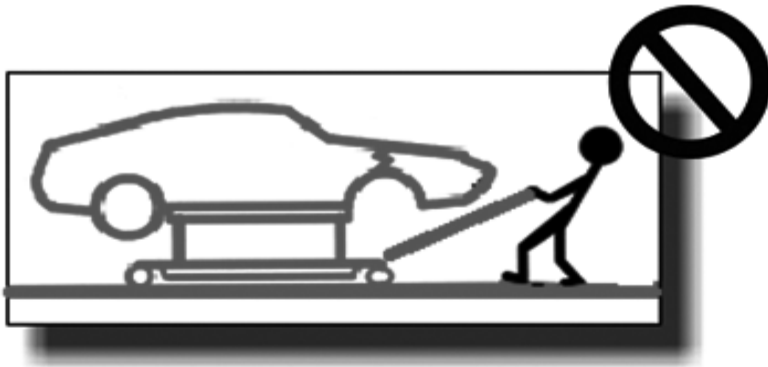
- 1/ Place your Cartar Lift on a clean, flat and level floor.
- 2/ Remove Plastic Bag and Strapping from your Cartar Lift and dispose of all rubbish.
- 3/ Inspect your Cartar Lift for any transit damage or oil leaks before proceeding any further. If there are any concerns, contact your seller or Cartar Australia direct. Extra copies of this manual are available online and can be downloaded at www.cartar.com.au and then click the link to "Literature".
- 4/ Inspect Oil Tank Breather for damage or blockage.
- 5/ Now remove the following items from your lift :-
 - fig AA - 1 x Tow Handle (cut cable Tie to remove)
 - fig BB - Remove Control Pad and black covered Air Line and lay out straight in front of your Lift.
 - fig CC - Remove the 4 Rubber Blocks and the 4 Support Brackets. 2 are stored on the L/H side and 2 are stored on the R/H side. When Cartar Lift is not in use, these components can be stored back in the same place.
 - fig EE - Check that there are no palette blocks still secured to underside of blue base of your Cartar Lift. Before using your Cartar Lift, you must be certain that blue base of your Lift is sitting squarely on concrete floor.
- 6/ closely inspect your control Pad and Black Air Line cover for any cuts or damage.
- 7/ Insert a male airline fitting into your Control Pad that is compatible with your airline system. Seal fitting with tape or sealant before inserting to prevent air leaks. (see fig 1)

- 8/ Insert 2 drops of oil into your airline fitting of your control pad.
- 9/ Your Cartar Lift is now ready to operate. It is recommended that you place a load on your Lift before fully extending lift for the first time.

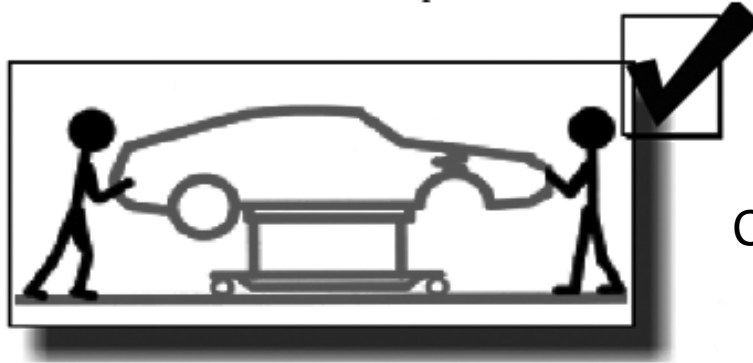


You now should have your Cartar Lift completely unwrapped and the blue Base sitting flat on your concrete floor.

USING YOUR TOW HANDLE



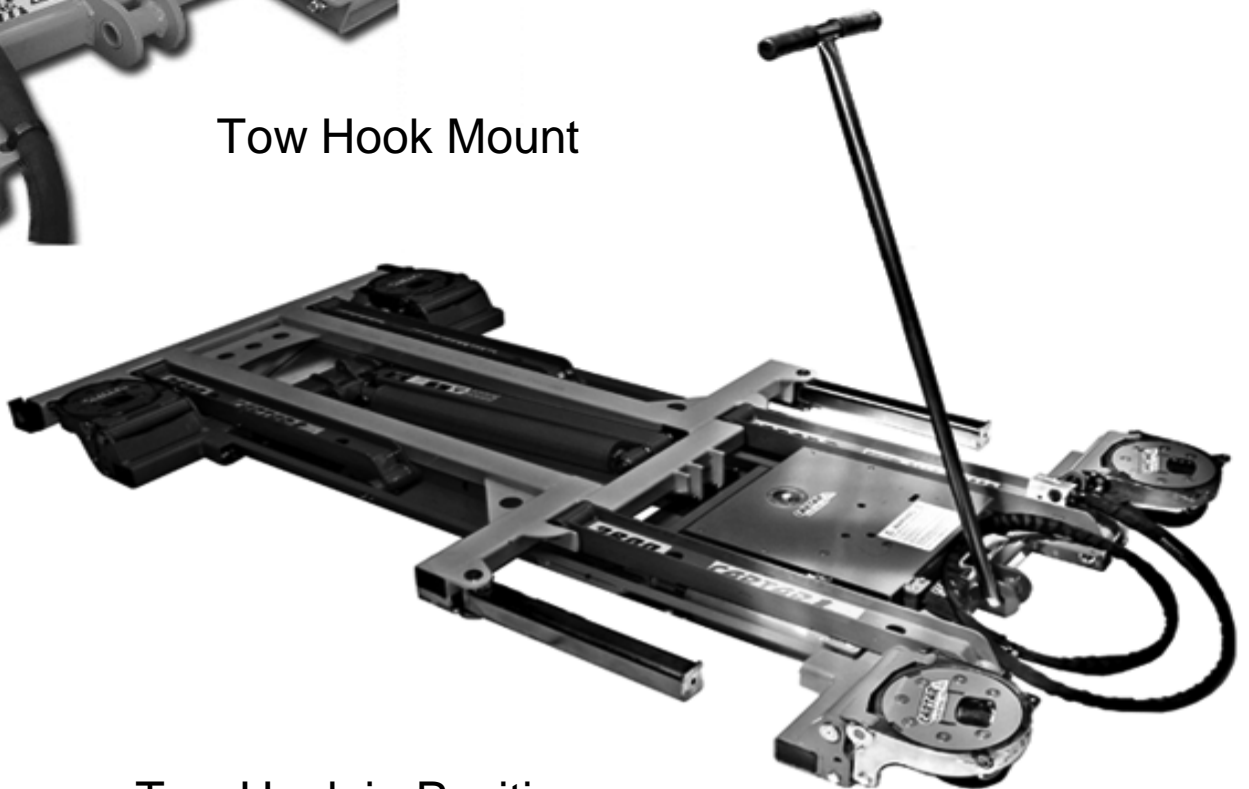
DANGER and WRONG



CORRECT and SAFE

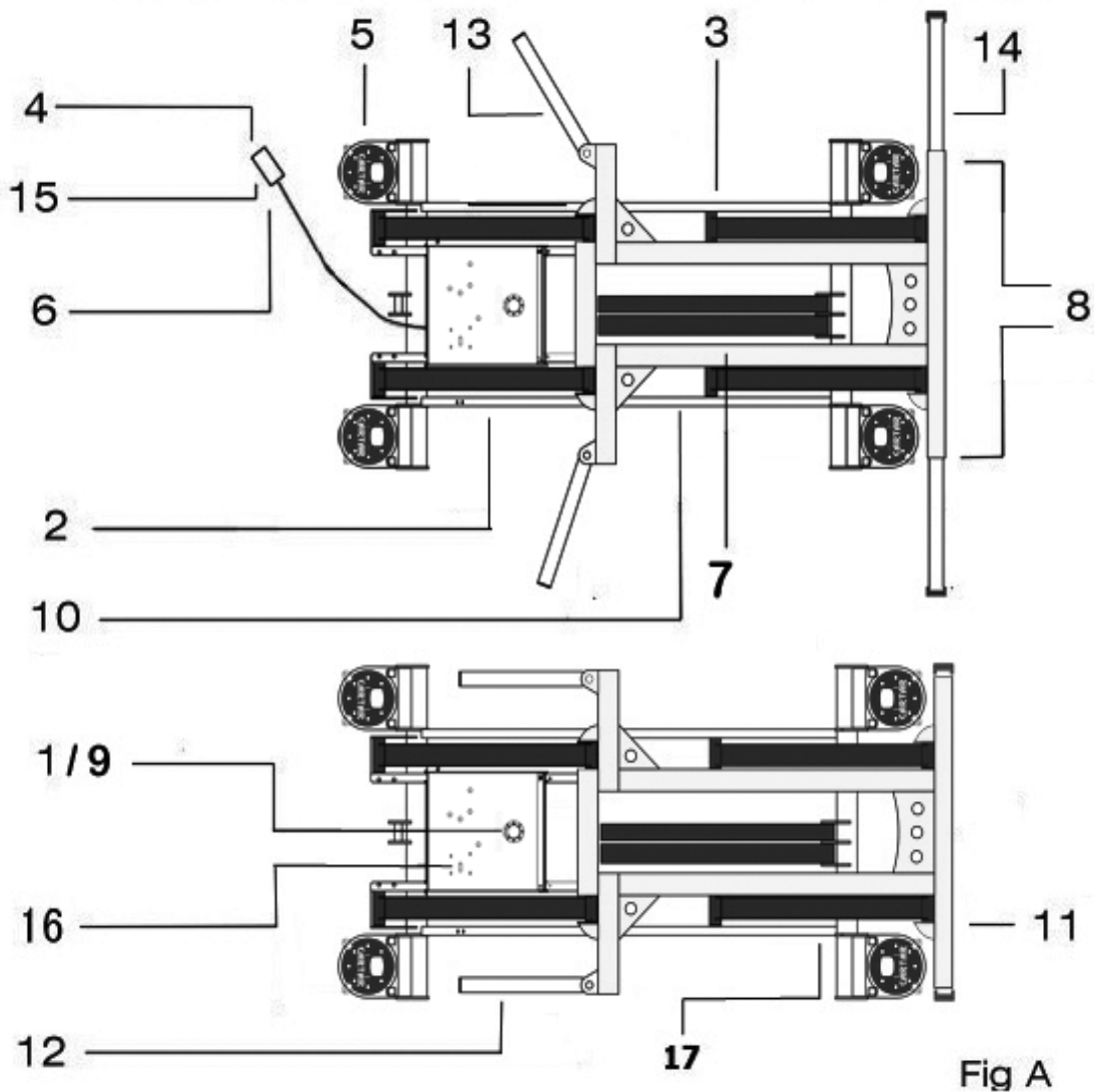


Tow Hook Mount



Tow Hook in Position

CARTAR FL-Mobile LEGEND



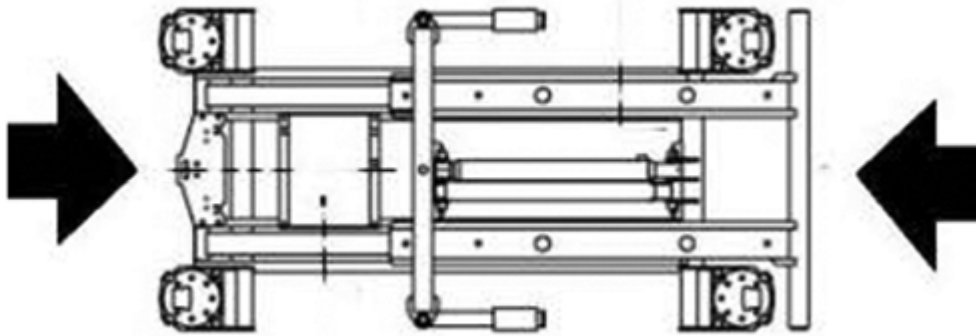
CARTAR FL-Mobile LEGEND

- | | |
|------------------------------|--|
| 1) Oil Filler / Breather Cap | 10) Base Frame (Blue) |
| 2) Main Pump Ass Cover | 11) Top Platform (Yellow) |
| 3) Hydraulic Cylinder | 12) Main Lift Arms x4 |
| 4) Brake Locking Release | 13) Front Swing Arms |
| 5) Wheel Assembly x4 | 14) Rear Slide Arms |
| 6) Safety Latch Release | 15) Control Pad |
| 7) Safety Lock Arm | 16) Air Motor "Blow By"
Inspection Hole |
| 8) Wheel Directional Locks | 17) Hyd Cylinder Retaining Pin |
| 9) Oil Tank | |

POSITION UNDER VEHICLE

YOU MUST ENTER THE CARTAR FL FROM FRONT OR REAR OF VEHICLE

Tow Handle can be removed once vehicle is elevated. To move Cartar Lift once elevated, always use 2 workman . One to steer lift and one to push off vehicle. Never move elevated vehicle by pulling or pushing off Tow handle. See page 9.



Position your vehicle central to your Lift. Make certain that the weight is evenly balanced on the Cartar FL before ascending.

WHEEL DIRECTION LOCK:

LOCKED



UNLOCKED



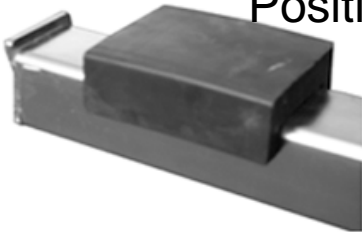
The Steering Locks are designed to assist the operator in the steering and control of the Cartar FL. With 4 wheels released, the Cartar FL can turn 360 degrees on its own axis. Front steering locks are available. Tools to lock and unlock require a 13mm / 1/2 inch open ended spanner and Allen key.

POSITION OF RUBBER PADS

Pay close attention to the position of your Rubber Pads by means of the combination of the 2 Swing and 2 Slide Arms, along with the Block support brackets, 99% of all domestic vehicles should be accommodated. Because of the profile of the Cartar Rubber Pad: only these are recommended for the Cartar FL Lift.



Position 1:

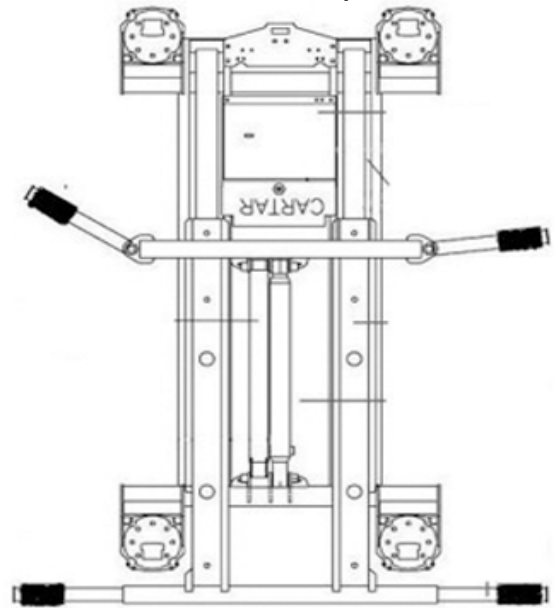


Position 2:
25 mm Lift



Position 3:
45 mm Lift

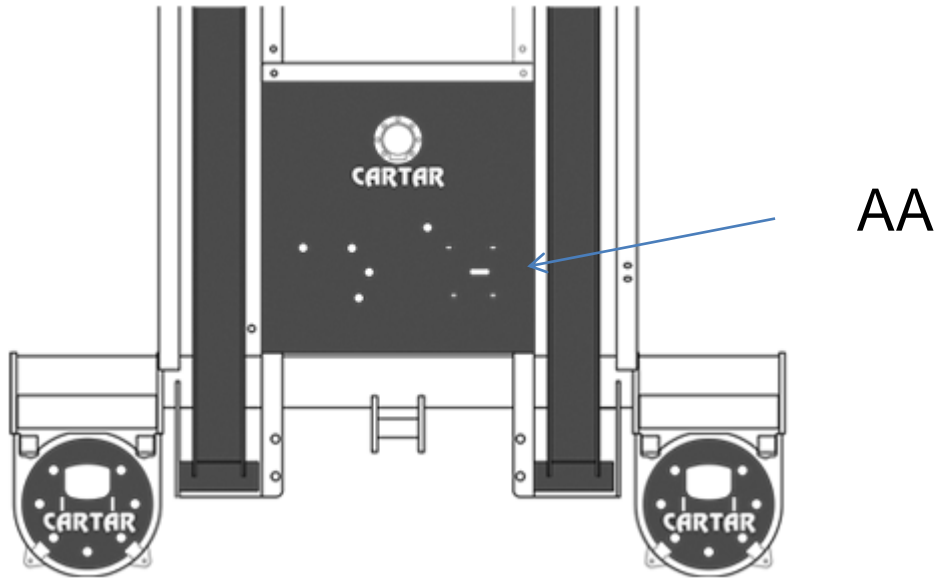
Recommended position on Lift



FIXING AIR MOTOR “BLOW BY”

On occasions, you will press your “Raise” trigger and the Air Motor will not rotate. Instead you will hear your Air Motor “exhausting” air without turning. This is because all air motors will from time to time flat spot under certain circumstances. When this occurs, simply;

- Step 1: Disconnect your air line from Control Pad.
- Step 2: Take a small flat blade screw driver and position it in recess (line AA) and rotate the alloy pulley in a 1/4 turn either way.
- Step 3: Reconnect air and press “Raise” trigger. Air Motor should respond, but if not repeat steps 1 & 2 again.

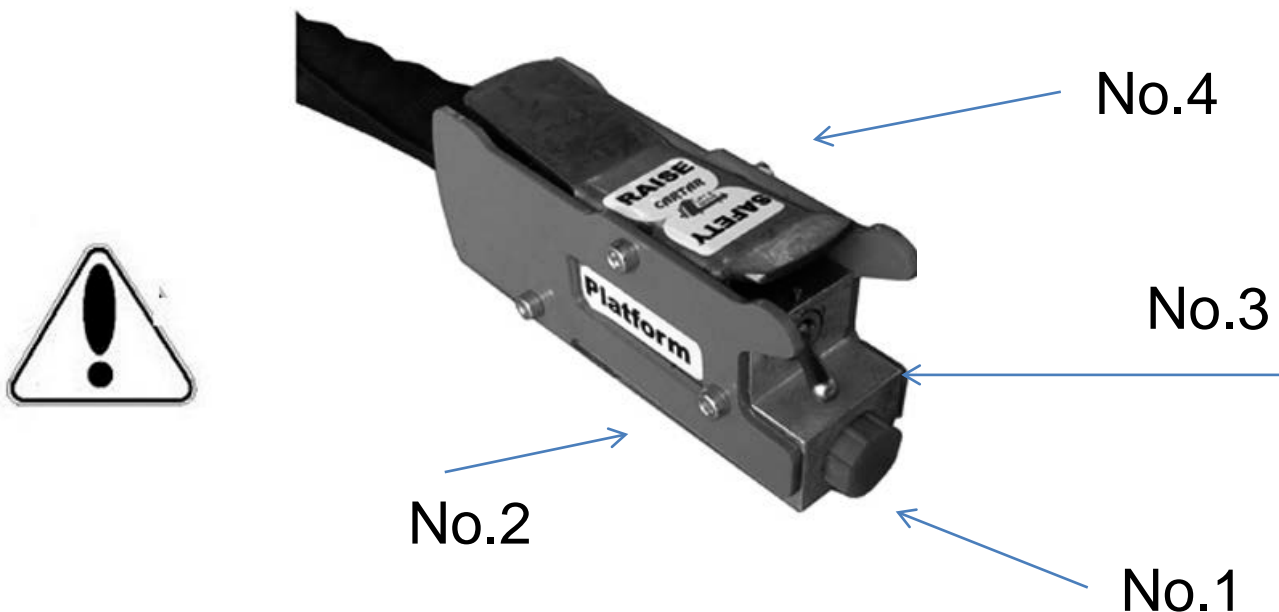


OPERATING INSTRUCTIONS

BRAKE LOCKING POSITION:

Brake Locking Position is when the wheels are off the ground, no longer carrying weight and the Steel Blue Base of the Cartar FL is sitting on the Concrete. In this position, your Car FL is Stationary, and at its safest.

- 1) Make sure your hands, fingers and feet are well clear of the Cartar FL.
- 2) Connect Air Line to Control Pad. (Fig A, no.1)
- 3) On Control Pad, switch to "Platform" (Fig A, no.2)
- 4) Blue Base will now lower and sit on concrete.



BRAKE OFF POSITION:

- 1) Connect Air Line to Control Pad. (Fig A, no.1)
- 2) On Control Pad, switch to "Wheels". (Fig A, no.3)
- 3) On Control Pad, push the "RAISE" trigger. (Fig A, no.4)
BE AWARE THAT YOUR CARTAR FL COULD START TO ROLL.
- 4) Your Cartar FL is now Mobile. You need to be aware that you're Cartar FL is dangerous and requires your TOTAL attention.



BRAKE LOCKING POSITION

BRAKE OFF POSITION

OPERATING INSTRUCTIONS

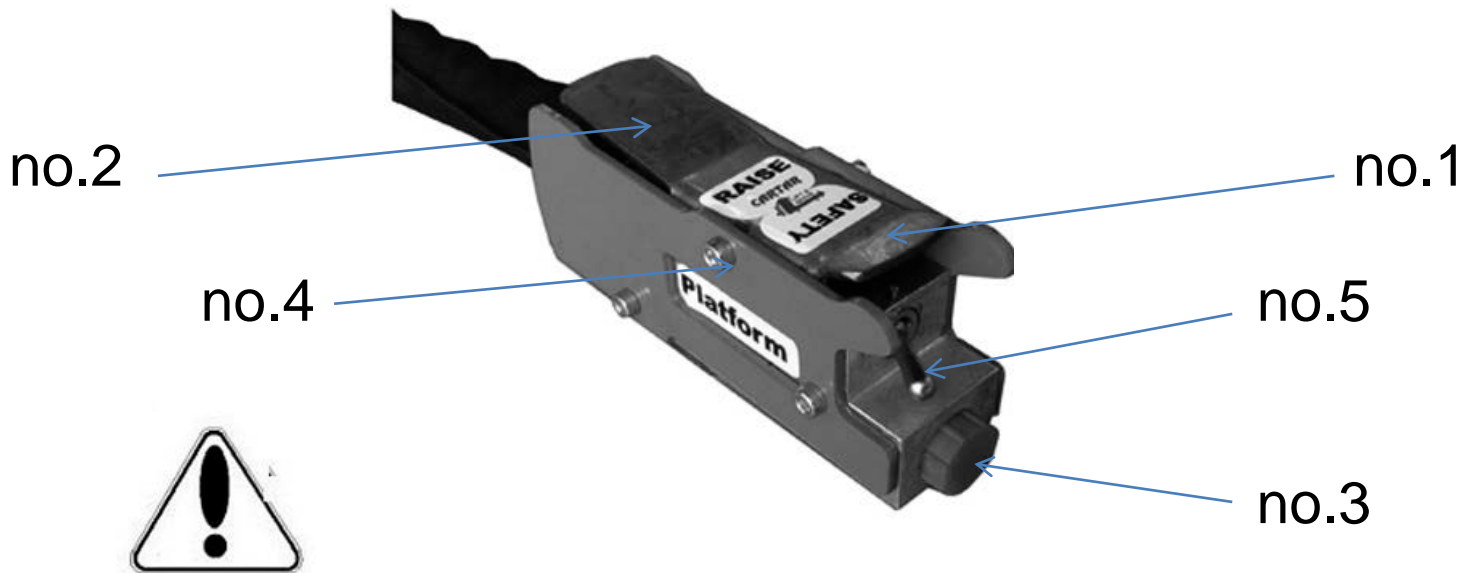
TO LOWER VEHICLE:

- 1) Connect Air Line to Control Pad. (no.3)
Reconnect Tow Hook whilst you have access under vehicle (page 9)
- 2) Lower Base to Brake Locking Position (see page 10) before proceeding to Lower Vehicle (top yellow platform)
- 3) Check all persons and objects are clear for a 3 (Three) metre radius.
- 4) On Control Pad switch to Platform.
- 5) On Control Pad, push "Raise" Trigger (no.2) to raise Platform approx 25mm This will allow you to retract the Safety Latch.
- 6) Release "Raise" and now push "Safety" (no.1) on Trigger.
- 7) While holding Safety Trigger (no.1), move switch to Wheels. (no.5)
- 8) Vehicle and Yellow Platform will start decending.
- 9) In the event of an Emergency or the need to stop your vehicle and Yellow Platform from decending any further, release Safety Trigger (no.1) and yellow platform will stop at the next Safety Latch.

- 10) To recommence decent of your vehicle, repeat steps 4, 5, 6, 7 until your yellow platform is totally lowered and vehicle is sitting on its own wheels.
- 11) Remove all Rubber blocks and Block supports and return the 2 Swing Arms and the 2 Slide Arms to there "ON-BOARD" Position.
- 12) Release Cartar FL from "BRAKE LOCKING" position sufficient to pull out from under vehicle. (see page 10)

CONTROL PAD

- | | | | |
|----|----------------|----|---------------------------------------|
| 1/ | Safety Release | 4/ | Switch - Raise Platform /Lower Wheels |
| 2/ | Raise Trigger | 5/ | Switch-Raise Wheels/Lower Platform |
| 3/ | Air Connection | | |



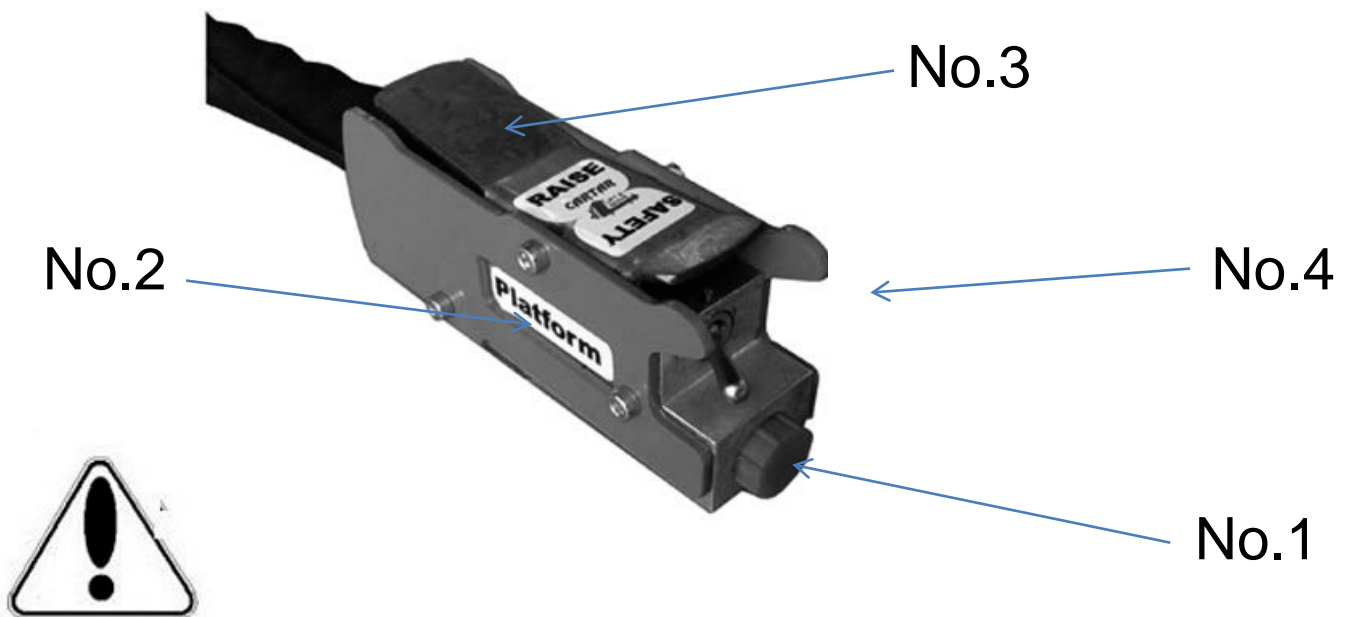
OPERATING INSTRUCTIONS

TO RAISE VEHICLE:

- 1) Connect Air Line to Control Pad. (Fig A, no.1)
- 2) Check the top Platform is fully lowered and the Base has minimal ground clearance but can still be rolled.
- 3) Enter from either the front or rear of your vehicle. (see "Position Under Vehicle" page 11). Roll the Cartar FL under vehicle and position so that the weight of your vehicle will be evenly balanced on the Cartar FL.
- 4) Lower Base to "Brake Locking" position (see page 9) before proceeding to raise vehicle.

- 5) Place rubber Pads under vehicle at suitable points (see page 11, Fig 2)
- 6) Check all persons and objects are clear for a 3 (Three) Metre Radius.
- 7) On the Control Pad, switch to "Platform" (Fig A, no.2)
- 8) On the Control Pad, Push down "RAISE" (Fig A, no.3)
- 9) Closely Observe vehicle as it ASCENDS to required height.
- 10) Once at desired height, switch to "Wheels" so that Top Platform will descend to nearest locking position on the Safety Arm (Fig A, no.4)
- 11) The Cartar FL is now ready to be released from "Brake Locking" and moved. If you do not need to move elevated vehicle and Cartar FL, then return the wheels to "Brake Locking" position (see page 10).
- 12) Once the Cartar FL has engaged its Safety Latch, you can also disconnect the Air Line from the Control Pad.

NOTE: When the Cartar FL is not being moved, ALWAYS return to the "Brake Locking" Position.



MAINTANANCE OF YOUR MACHINE

- 1) Inspect your machine on a weekly basis. This is especially important with air lines and Hydraulic Hoses. If there is any sign of damage or oil leaks, immediately replace damaged parts before using Cartar lift again.



- 2) It is vital that you oil the air motor weekly with only “Air Tool” Oil. This will help keep your air motor in top condition and protect from compressor impurities. Simply place 2 drops of oil in to the air line. (see Fig 1).
- 3) Replace worn or missing Rubber Pads with genuine Cartar Pads.
- 4) Because your machine has no electrical components, it is recommended that you high pressure clean your machine on a regular basis to prevent heavy build-up of industrial grime.
- 5) Drain and replace your hydraulic oil from the oil tank every 18 months. Only do this when your machine is totally lowered and has no load on board. Replacement is 5 litres of Hydraulic Oil grade 46.
- 6) Your machine should never descend with a vehicle on board at a faster rate than when ascending. If this does occur, immediately off load your vehicle and inspect machine. Only when the problem has been identified and fixed, should you use your Cartar FL Lift again.
- 7) Your Cartar Mobile has approx. 7 feet or 12mm Pitch Leaf Chain. To lubricate the chain, apply oil from an oil can in areas where the chains are visible front and rear. Repeat every 6 months.
- 8) You should have many years trouble free out of your chain system. Because there is no adjuster between your chains, when you start to notice your 4 wheels are no longer in sync, it will be time to replace your present chain.



Fig 1
Air Line Fitting

AUXILLARY CARTAR PRODUCTS

CARTAR "WORK STATION"

Heavy Truck Components Engineering Workshop logistics
Agriculture Equipment and machinery Rental Equipment Workshops
Heavy Machine Shop Logistics Theatre and Stage Logistics
Aerospace Fabrication Marine Industry



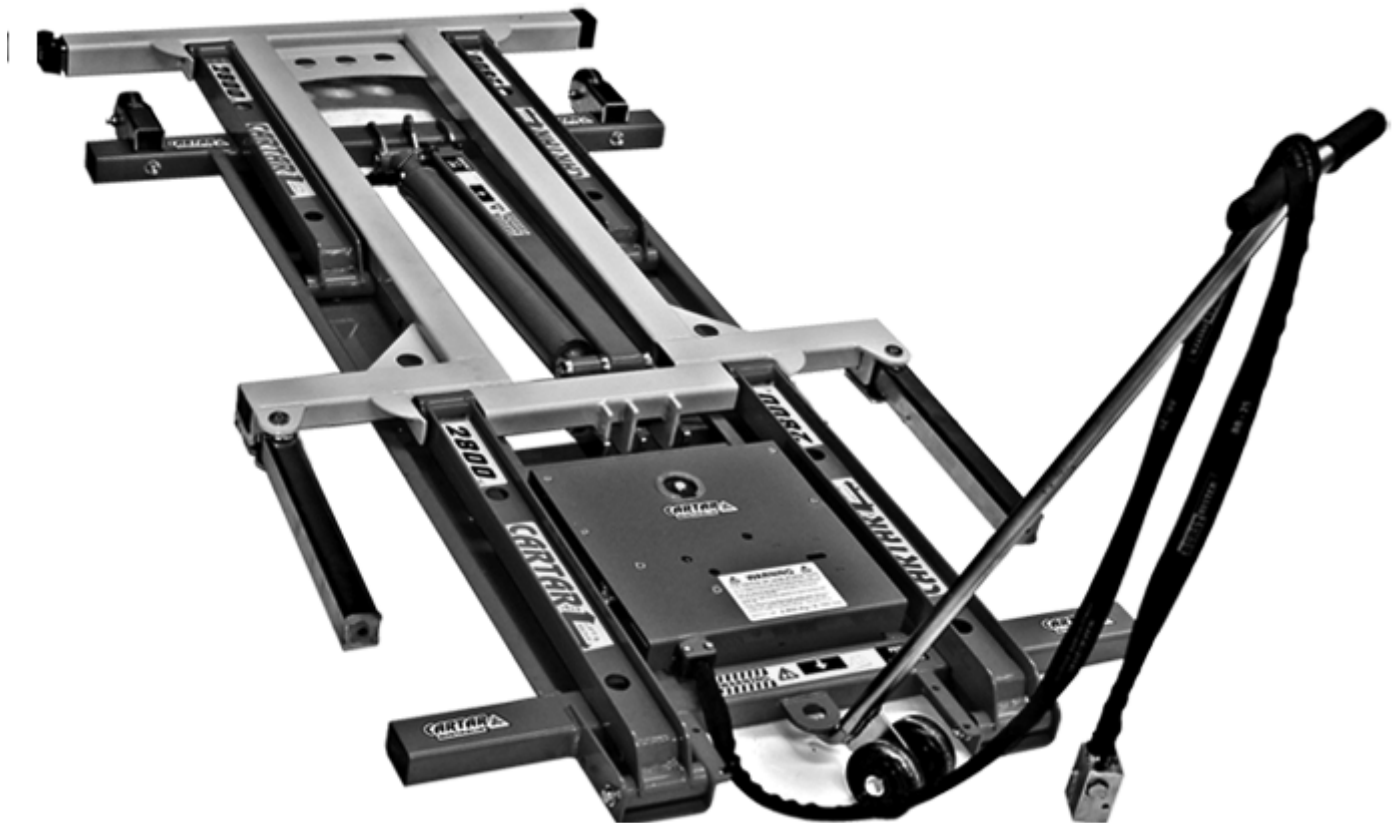
CARTAR "SPRAYBOOTH KIT"

The Spray booth Kit gives the operator the freedom to move damaged vehicles with ease and safely through the complete repair cycle. From times beginning, getting damaged vehicles in and out of a spray booth has been a challenge. The "Spray booth Kit" solves that problem and saves you the operator "Time and Money".



AUXILLARY CARTAR PRODUCTS

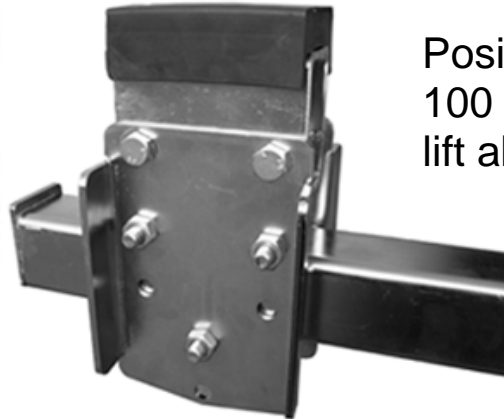
Series: Cartar
“FL Econo” with Wheel Kit.



The Cartar FL Econo Lift becomes totally portable when fitted with the Econo Wheel Kit. Move your Cartar Lift with ease to any position, inside or outside your workshop. For that matter, the Cartar Econo can be used outside in all weather conditions. Unlike many lifts that claim to be portable but require extensive levering back on handles and dragging oil lines and powerpacs behind, the Cartar FL Econo is totally self-sufficient and glides along the factory floor. This is all possible because of the unique Econo Wheel Design. This is an option to the Cartar Econo.

AUXILLARY CARTAR PRODUCTS

Cartar "SUV KIT"



Position A:-
100 mm/ 5 inches
lift above arm.



Position B:-
135mm/ 6 1/2 inches
lift above arm.

Cartar "RAMP KIT"

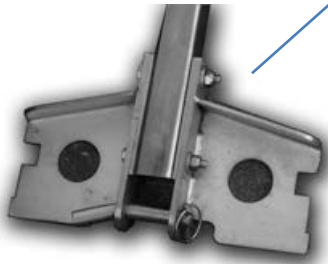
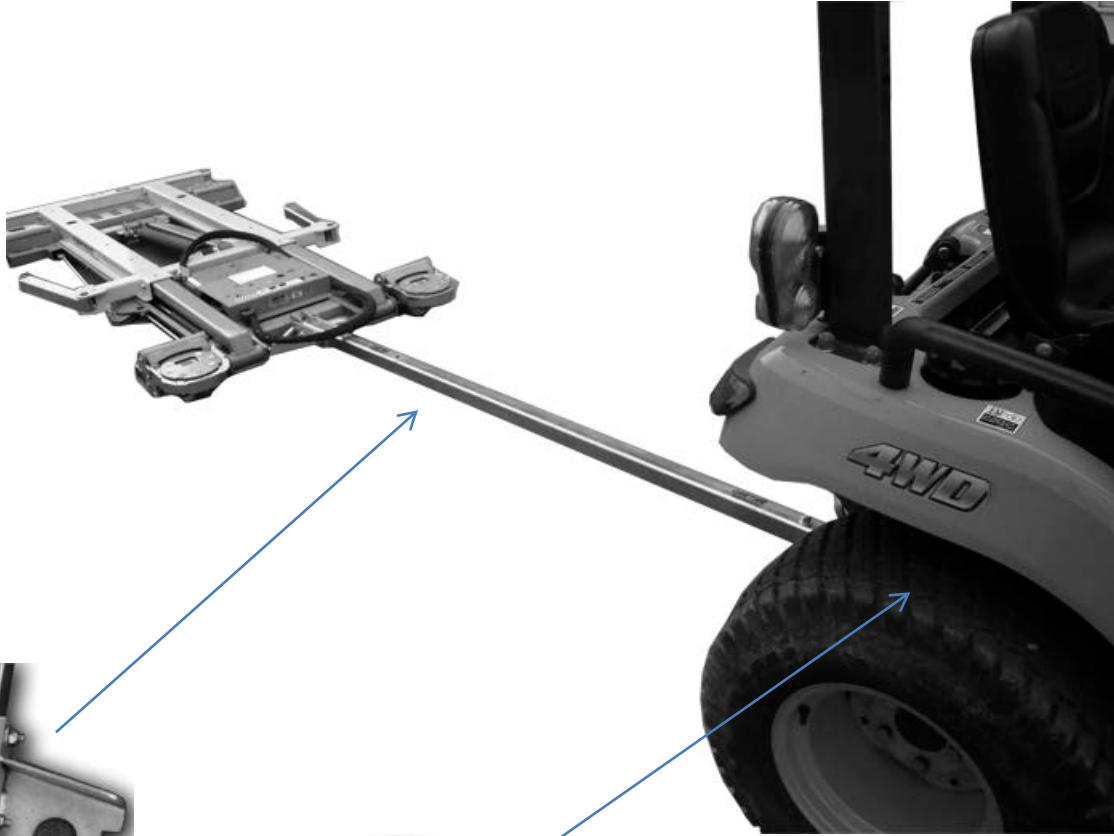
If your vehicle is too low for the Cartar FL Lift, no problem, simply use the Cartar Ramps.

- 1) Place one of the Cartar Ramps forward of the 2 front wheels.
- 2) Drive your vehicle forward until both front wheels are sitting atop of ramps.
see pictures below
- 3) You have now elevated your vehicle by 50mm / 2 inches. This will easily allow your Cartar Lift to now roll under.



AUXILLARY CARTAR PRODUCTS

Series: CARTAR "Tow Pack"



Tow Pack Attachment



Tow Ball



The Cartar "Tow Pack" offers the modern workshop a "System" to move those damaged or disabled auto's through your workshop.

CARTAR WARRANTY

WARRANTY PERIOD: 24 Months.

- To ensure that the Cartar Warranty protects the purchaser, the Warranty Registration Form must be signed, detached and mailed to Cartar Industries within 14 days of the Original Sale.
- The above Warranty binds the Purchaser and Cartar Industries to the following Terms and Conditions:
- 24-month period will apply from date of Original Retail Purchase.
- If during this period the Cartar Lift fails to operate correctly due to faulty Components or workmanship on the part of the manufacturer, the manufacturer will supply and deliver any components that need to be replaced.
- This Warranty applies only to the Cartar Lift that is identified on this Registration Form.
- It is agreed that Cartar Industries will not be Liable for any injuries, or loses or consequential damage to anything else whatsoever arising from any defect in this Cartar Lift.
- This Warranty will not apply if this Cartar Lift has been repaired, modified or otherwise interfered with by any other person or persons other than the manufacturer or his appointed agent, nor cover failures due to malicious or accidental damage.
- The Purchaser is responsible for the performance of regular maintenance Services and inspections as specified in this manual. Untimely and/or improper care and replacement of normal maintenance items will void this warranty. Use of Non-genuine Cartar Industries parts will void Warranty.
- Cartar Industries reserves the right to modify, alter or otherwise improve any product or part.
- By the signing of this warranty, the purchaser acknowledges that he has fully read and completely understands this manual. The purchaser further agrees that no other person will operate this Cartar Lift before first reading and completely understanding this manual.

What the Purchaser MUST do:

- 1) Fill in and sign both the Cartar Copy on page 16 and the Purchasers copy on page 18, Warranty Registration Forms.
- 2) Detach the Cartar Copy on page 16, place in a stamp addressed envelope and mail to your Authorized Cartar Agent.

The WARRANTY REGISTRATION FORM

CARTAR's COPY

Purchasers Name: _____

Company Name: _____

Address: _____

Date of Purchase: _____

Serial No. _____

Retailers Name: _____

Retailers Address: _____

Purchasers Signature:

Retails Signature:

CARTAR WARRANTY

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 - This Warranty will not apply if this Cartar Lift has been repaired, modified or otherwise interfered with by any other person or persons other than the manufacturer or his appointed agent, nor cover failures due to malicious or accidental damage.
 - The Purchaser is responsible for the performance of regular maintenance Services and inspections as specified in this manual. Untimely and/or improper care and replacement of normal maintenance items will void this warranty. Use of Non-genuine Cartar Industries parts will void Warranty.
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The WARRANTY REGISTRATION FORM

PURCHASER'S COPY

Purchasers Name: _____

Company Name: _____

Address: _____

Date of Purchase: _____

Serial No. _____

Retailers Name: _____

Retailers Address: _____

Purchasers Signature:

Retails Signature:

Series: FL Mobile Specifications

* Retracted height:	10 cm / 4 inches (exclude 5' wheels)
* Elevated height:	82 cm / 32 inches
* Length when fully lowered:	225 cm / 88.5 inches
* Width when Arms retracted:	110 cm / 43.5 inches
* Power Source:	Air Compressor
* Maximum Lift Load:	2,800 kg / 6,160 lbs
* Shipping weight:	285 kg / 628 lbs
* Oil Grade:	hydraulic 46 grades
* Oil volume in Tank:	5 litres / 1.3 gallons
* Wheel turning circle:	360 degrees x 4 wheels
* Leaf Chain:	BL 434
* Required Air Pressure:	50 - 100 psi / 3.44 - 6.90 bar
* Country of Manufacture:	AUSTRALIA
* Power Pack and Oil Tank:	Built in on-board
* Direction of Load:	Front or Rear entry
* Period of Warranty (conditional)	Two Years - 24 Months

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the RESPONSIBILITY for developing, implementing, and enforcing the safety concepts which apply to your own operation, to effect the greatest safety for yourself and the people around you

