



# Operating manual and test record for service lift

Machine type	Article No.	Serial No.
Glidemaster Mobile	Cartar Mobile Lift	
Econo 100	Cartar Work Bay Lift	

## 2020 Glidemaster and Econo 100



### CARTAR INDUSTRIES

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**Australian  
Standards**

## **SAFETY PRECAUTIONS FOR THE USER**



### **USE COMMON SENSE & PLENTY OF IT**



- 1) Do Not allow any persons to operate this product with out 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 onboard 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.



### **USE COMMON SENCE AND PLENTY OF IT**



- 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](http://www.cartar.com.au)

**Table of contents**

1	Safety Precautions for User .....	2
1	Operation and Safety Inspection .....	5
2	General information .....	6
2.1	Hazard warnings .....	6
2.2	Limitation of liability .....	6
2.3	Copyright.....	7
2.4	Terms of guarantee.....	7
2.5	Customer service .....	7
3	Master data sheet.....	8
4	Product description.....	9
4.1	Intended use .....	9
4.2	Product structure .....	10
4.3	Technical data .....	11
4.4	Product designation.....	11
5	EC Declaration of Conformity .....	12
6	General safety instructions .....	13
6.1	Operator's duty of care.....	13
6.2	Operator's duties .....	13
6.3	Basic safety measures .....	14
6.4	Requirements of operating personnel .....	15
7	Transport and preparation .....	16
7.1	Transport inspection.....	16
7.2	Disposal of the packaging materials.....	16
8	Installation and Assembly .....	17
8.1	Environmental conditions for assembly .....	17
8.2	Assembly instruction    Glidemaster Mobile.....	18
8.3	Assembly Instructions    Econo 100 .....	18
8.3	Knowing this Manual .....	18
9	Operation.....	19
9.1	Use of the Tow Handle .....	19
9.2	Cartar Legend.....	19
9.3	Hand Control Identification .....	19

9.4	Position Under Vehicle.....	21
9.5	Wheel Directional Locks .....	21
9.6	Operation of Rubber Pad System.....	22
9.7	Brake Lock Operation .....	23
9.8	To Lower Vehicle .....	24
9.8	Hand Control Operation.....	24
9.8	To Raise Vehicle.....	25
10.1	Safety Inspection .....	26
10.2	Regular Safety Checks .....	27
11.1	Maintenance .....	28
11.2	Pnuematic Schematics.....	29
11.3	Hydraulic Schematics.....	30
11.4	Spool Valve Specifications.....	31
11.5	Spare Parts Listing.....	32
11.6	Troubleshooting.....	33
11.7	Fixing Air-Motor "Blow-By".....	34
12	Additional Information.....	35
12.1	General Specifications.....	35
12.2	Notice about the Sliding Area of the Scissors.....	35
12.3	Working on a Lifted Vehicle.....	35
12.4	Cartar Warranty.....	36

# 1 Operation and Safety Inspection

Carried out by the manufacturer to check the following details:

Following plates present:

- ☐ Nameplate
- ☐ Operating instructions (abbreviated)
- ☐ Lifting capacity
- ☐ Bar mains pressure
- ☐ Raise "up", - lower "down"
- ☐ Company logo
- ☐ CE marking
- ☐ Correct way of supporting the vehicle

Operation and safety checked:

- ☐ Safety valve set to 3.5 bar operating pressure

Inspected:

- ☐ Unladen function test
- ☐ Safety catch function
- ☐ Function telescoping support
- ☐ The control valve automatically goes into the 0 position
- ☐ No damage to the surface of the air bags
- ☐ Secure fit of all supporting screws
- ☐ Safeguard of the scissor pins
- ☐ Condition of the pneumatic lines (proper position and do not leak)
- ☐ Function loading ramps / roll-off protection
- ☐ Function slider
- ☐ Function folding ramp
- ☐ Function swivel arm

Serial No.: See cover sheet

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**CARTAR INDUSTRIES**  
9A Dalkieth Drive  
Dromana , Vic 3936  
AUSTRALIA  
Tel : +61 3 59871514  
Email : info@cartar.com.au

## 2 General information

The operating instructions (and test log book) contain important information concerning the installation, and ensure safe, proper, and economical operation as well as preservation of operational safety.

Observance of these operating instructions will help you to avoid danger, reduce repair costs and downtime as well as to increase the life of your service lift.

As evidence of regular **safety checks** this test log book contains a form. This should be used to provide documented details of tests. (It is advisable to make a copy of the form before starting to fill it out.)

### Installation and testing

Safety-related work and safety inspections may only be performed by suitably trained personnel. In this documentation, personnel are designated as expert and qualified persons.

## 2.1 Hazard warnings

To identify hazardous areas and important information, the following symbols with the described definitions are used. Please pay special attention to text sections marked with these symbols.



Signifies danger for life and limb, meaning improper execution of the process referred to by the symbol may be fatal!



Signifies a notification of a key function or an important notice!

## 2.2 Limitation of liability

All details and indications in this operating manual were compiled taking into account the applicable standards and regulations, and the latest technology as well as our many years of insight and experience.

The manufacturer accepts no liability for any damage caused by:

- Failure to adhere to the operating manual
- Improper use
- The intervention of non-qualified staff
- Arbitrary alterations
- Neglecting maintenance

## 2.3 Copyright

These operating instructions are to be treated as confidential and are solely intended for personnel working with the machinery. Transfer of the operating manual to third parties without the written consent of the manufacturer is prohibited.



Text, drawings, images and other illustrations are copyrighted and intellectual property rights apply.

## 2.4 Terms of guarantee

The terms of guarantee are included as a separate document in the sales brochures.

## 2.5 Customer service

For technical information, please contact our customer service centre as follows:

Customer Support	Cartar Industries 9a Dalkeith Drive Dromana , 3936 Vic, Australia Tel : +61 3 59 871514 Email : <a href="mailto:info@cartar.com.au">info@cartar.com.au</a>
------------------	---

### 3 Master data sheet

Name; Type: .....

Serial No.: See cover sheet

Manufacturer: CARTAR INDUSTRIES  
9a Dalkeith Drive .  
Vic 3936  
AUSTRALIA

Intended use:

The lift with Hydraulics & scissor system is a lifting machine for lifting vehicles with a permissible load capacity (see technical data) of a maximum load distribution of 3:2 in the driving direction or 2:3 against the driving direction.



**Any construction-related modifications as well as basic repairs are to be recorded on this master sheet!**

**Changes to the construction, testing by experts, re-commissioning**  
(Date, type of change, expert signature)

.....  
Name Address of assessor

.....  
Location Date Signature of assessor

## 4 Product description

### 4.1 Intended use

The lift is exclusively intended for lifting vehicles (passenger cars) with a maximum nominal load (see **chapter on Technical data**).

Lifting individuals and other objects is prohibited.

Working under a lifted vehicle and during the lifting and lowering movement is not permitted.

Operation may only be performed by persons who have read and understood the operations manual and who are more than 18 years of age.

Vehicles may only be lifted at the designed lifting points (at framework or on the wheels). It is only allowed to lift vehicles as stated in the operating instructions.

The products described in these operating instructions can be used in explosion hazardous areas and are subject to the Directive 94/9/EC. Measures to protect against explosion hazards are required. See **Chapter "general safety information"** and **Chapter "Installation"** for further information.



The marking of the equipment is **Ex II 3G c IIA T4**

The lifting platform is part of the machinery group II, category 3; used in general industry in Area 2 for gases of explosion group IIA

c = constructional safety

T4 = up to 135 ° C surface temperature

Version as a category 2 is available upon request

The scope of intended use also includes the reading of the current operating manual as well as compliance with all the indications included in the same – particularly safety instructions.

The scope also extends to ensuring that all inspection and maintenance operations are implemented within the prescribed time periods.

If the vehicle lift system is not used according to its intended use, safe operation of the system cannot be guaranteed.

In the event of any accident resulting in personal injury or damage to property resulting from improper use, the operator of the lifting system shall be responsible and not the manufacturer!

## 4.2 Product structure

The vehicle lift consists of a Hydraulically operated platform main body on one hand and of a cantilever set on the other hand lifting the vehicle directly by the wheels. Alternatively the vehicle can also be lifted with the wheel-free function.

The Hydraulic Cylinders perform a movement that is carried out laterally by the scissors. The scissors also restrict the lift height of the service lift. A safety catch prevents the service lift from sinking in the case of Hydraulic Failure

The operation of the service lift ensues with an operating unit that is attached to the lift via a pneumatic switch.. ( This supplies power to Hydraulic System and safety catch )

Technical data about the service lift is available in the **Technical data Chapter**.

You will find reference to professional assembly in the **Mounting Chapter**.



CARTAR ECONO 100  
Work Bay Lift

CARTAR GLIDEMASTER  
MOBILE "Lift & Move"



## Technical data

<i>Technical changes reserved.</i>	Glidemaster Mobile	Econo 100
Lifting capacity of the service lift	2800 kg / 6210 lbs	
Empty weight of the service lift	330 kg / 727 lbs	265 kg / 584 lbs
Maximum load distribution	3:2 in or against the driving direction	
Lifting time of the service lift	38 sec	
Lowering time of the service lift	30 sec.	
Effective stroke of the service lift	820 mm / 32.5 "	
Height of the service liftSUV's	820 mm + 180 mm	780 mm + 180 mm
Insertion height minimum/ overhead height	115 mm / 4.4"	100 mm / 3.9"
Length of the base body	2010 mm / 79.1"	1520 mm / 59.8"
Width of the base body	1060 mm / 41.7"	1030 mm / 40.5"
Total length	2010 mm / 79.1 "	1520 mm / 59.8"
Total width	1060 mm / 41.7"	1030 mm / 40.5"
Distance support points arm max. in the width direction.	2000 mm / 78.7"	2000 mm / 78.7"
Distance supporting points supporting arm max. in the length direction.	2000 mm / 78.7"	2000 mm / 78.7"
Gear	Hydraulic Cylinders x 2	
Operating pressure for the safety valve	3,5 bar	
Pneumatic connection to supply system P <sub>max</sub>	8 bar (provided by the customer)	
Noise pollution under	<78 dB(A)	
Dimension sheet	Page 35	Page 35
Pneumatic circuit diagram	Page 29	Page 29
Hydraulic circuit diagram	Page 30	Page 30
<b>Safety devices</b>		
Anti-drop safety device	yes	yes
Safety valve	yes	yes
Roll-off safety device (vehicle)	yes	yes

## 4.3 Product designation

The details of the lifting platform are stated on the type shield on the machine frame as well as in the EC Declaration of conformity.

Details  
Nameplate

Article No.		Year of construction	
Machine type		Operating pressure	
Serial No.		Vers.	
Lifting capacity		Empty weight	

## 5 EC Declaration of Conformity

set out in Annex II A of the EC Machinery Directive  
(2006/42/EC)

The manufacturer	Cartar Industries 9a Dalkeith Drv Dromana. Vic .3936 Australia.			
	CARTAR INDUSTRIES PTY LTD			
is responsible for the documentation and declares that the following machine described,	the service lift	machine type Glidemaster Mobile Econo 100	Art.- No. Glidemaster Mobile Econo 100	Serial No.: See cover sheet See cover sheet
complies with the Health and Safety requirements of the following EC directives:	<b>Machinery Directive 2006/42/EG</b> Directive : EN 1493 : 2010 Directive : EN ISO 4413: 2010			

Applicable harmonised standards:

EN 1493:2010 EN ISO 4413:2010	Vehicle lifting platform Hydraulic Fluid Power . General Rules and Safety Requirements for systems and their Componanats
----------------------------------	---

**AUSTRALIAN STANDARDS : AS 1418.9 - 1996**

Any construction-related modifications, which affect the technical data specified in the operating instructions and thus significantly alter the intended use of the machine, shall render this declaration of conformity null and void!



Melbourne , 2020

Location, Date

Bill Carter ,  
Managing Director  
Cartar Industries

## 6 General safety instructions

### 6.1 Operator's duty of care

The lifting platform was designed and built taking a hazard assessment into account and following careful selection of the harmonised standards to be met, as well as additional technical specifications. It thus corresponds to the state of the art and guarantees the utmost level of safety.

However, this safety level can only be reached during practical operation, when all measures required have been implemented. The Due diligence is required on the part of the operator of the lifting platform, to plan these measures and ensure their implementation.

**The operator must, in particular, ensure that**

- The lifting platform is only used as intended (**see chapter on Product description**).
- The service lift only be used in a fully functional and fault-free state and will be checked regularly for operational functionality with special attention to safety equipment.
- The placement of the service lift is located and designed so that the operator is able to observe all movements of the load as well as have an overview of the area under the lift and its load. The operator is responsible for supplying adequate lighting.
- Access to the danger area (area under the lifting platform and under the load) by individuals is forbidden. Operations in the danger area are prohibited. Maintenance operations are excluded, (**see Chapter on Maintenance**).
- The operating instructions are to remain fully readable and available in the area in which the lifting platform is used.
- The lifting platform is only used by individuals having read and understood the operating instructions.
- Personnel are to be regularly instructed of all relevant information regarding work safety and environmental protection and familiar with the operating instructions and the safety notices therein.
- Only qualified individuals and experts may repair the lifting platform.
- None of the safety and warning notices linked to the lifting platform are to be removed and must remain readable.
- No interference with the service lift (for example, repairs) should take place without adhering adequately to protective measures (safeguard the base from sinking with a service support).

### 6.2 Operator's duties

The operating safety ordinances are intended for the operators of work equipment used in vulnerable areas.

The operator must take a risk assessment of the area where the work equipment (service lift) will be used. The dangers that arise during the use of the work equipment related to the substances and working environment should be detected and taken into account.

The operator shall take the measures necessary and choose operating equipment suitable for the conditions prevailing at the workplace and assure the safety and health of employees.

For the execution of risk assessment and decision on suitable equipment, the operator must apply country-specific guidelines and standards.

## 6.3 Basic safety measures



When operating the service lift, the statutory accident prevention regulations in accordance with BGV A1 (General requirements) apply. Regulations BGR 500 (operators of work equipment) can be used for information purposes.



Make sure that the front wheels are in the straight-ahead position. Before lifting, prevent the vehicle from rolling away. Pull the hand brake and shift the car into reverse or first gear. For vehicles with automatic transmission shift the car into the P position.



The operator is to monitor the vehicle during lowering and lifting.



Service lift parts such as air bags or air bags must be protected while working with high temperatures (welding, grinding, etc.) and from mechanical and chemical damage.

Compliance with the following points is particularly emphasised:

- The service lift is only to be used for lifting passenger cars.
- The total weight of the lifted car may not exceed the stipulated lifting capacity, whereby a maximum load distribution of 3:2 in the driving direction or 2:3 against the driving direction is permitted.
- While operating the service lift, instructions in the operator's manual are to be complied with.
- Only persons who are 18 years old or older and instructed in the use of the service lift are permitted to use it.
- During lifting and lowering movements, no person other than the operator may stand in the way of the area of movement for loading and service lift.
- The transport of passengers on the service lift or in the car being lifted is prohibited.
- Climbing on the service lift or in the car being lifted is prohibited.
- Following any modifications to the construction and repairs to load-bearing parts, the service lift must be inspected by an expert. Changes and repairs must be recorded on the master data sheet.
- In the event of modifications (i.e. repairs) appropriate safety measures must be met. (Safeguard the base from sinking with a service support.)
- Sufficient clearance between low lying vehicle parts and the service lift should be ensured before lifting begins.
- The rubber blocks have to be placed onto the biggest plain space. Stacking is not allowed



Not complying with the safety regulations can cause serious injuries as well as damage to the lifted vehicle.

## 6.4 Requirements of operating personnel

The lifting platform must only be used by individuals who have been suitably trained, instructed and authorised. These persons must be familiar with the operating manual and proceed in accordance with the same. The respective authorisations of the operating personnel are to be clarified.

Moreover, for the following activities, specific qualifications are required:

Operation	Execution
Installation	Cartar service assemblyman / qualified person
Starting up	Cartar service assemblyman / qualified person
Briefing	Cartar service assemblyman / qualified person
Fault clearance	Cartar service assemblyman / qualified person
Servicing	Cartar service assemblyman / qualified person
Maintenance	Cartar service assemblyman / qualified person
Repairs	Cartar service assemblyman
Disassembly	Cartar service assemblyman / qualified person

Operating individuals in training should only operate the lifting platform when supervised by an experienced person. Evidence of completed and successful training should be confirmed in writing.

All control and safety installations must, generally speaking, only be operated by suitably trained persons.

All individuals engaging in activities involving the lifting platform must read the operating instructions and sign to confirm that they have understood them.

## 7 Transport and preparation

### 7.1 Transport inspection

Check the order upon receipt of delivery for damages caused during transport.  
If there is identifiable damage, proceed as follows:

- Leave the goods and packaging in an unchanged state. Do not attempt to use the product.
- Immediately contact Herkules customer service.

<b>Customer service:</b>	Cartar Industries 9a Dalkeith Drive Dromana, Viv , 3936 . AUST. Tel +61 3 59 871514 Email : info@cartar.com.au
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**Do not send back damaged goods before receiving confirmation from the customer service centre!**

### 7.2 Disposal of the packaging materials

The packaging material must be disposed of in accordance with the current environmental - and disposal guidelines.

## 8 Installation and Assembly

The following important safety instructions must be observed during the assembly of the service lift. Adhering to safety instructions helps to avoid life-threatening injuries, personal damages, as well as damage to machinery.

- The installation work must only be performed by suitably-trained persons and with compliance of the safety instructions during the process.
- Before commencing the installation work, the lifting platform must be investigated for damage in transit.
- Always ensure that only authorised persons enter the working space and that no other persons are exposed to any risk from the installation work.
- All machine connections (tubes) are laid out so that there is no risk of stumbling.
- Also read the **Chapter "General Safety Instructions"**.

### 8.1 Environmental conditions for assembly

The service lift is only suitable for use in dry, closed, indoor rooms.

The ground where the car lift is to be assembled should be horizontal and flat (according to DIN 18202), and the load capacity of the floor must be able to support the total weight of the service lift.

The operator is solely responsible for the selection of the installation location.

The service lift must only be used within a temperature range of 5°C to 65°C. During the selection of the assembly location bear in mind the measurements of the service lift that are outlined in the **chapter on Technical data** as well as the **chapter on Additional information** (take note of the measurements with a lifted vehicle as well).

Adequate ceiling height must be present (at least the total height of the service lift plus the vehicle height). Care must be taken that the minimum distances specified are adhered to (according to country-specific regulations and workplace ordinances) with regard to distance between walls and equipment respectively. It should be noted that the service lift must not block any emergency escape routes. Adequate lighting must be present at the assembly site (according to country-specific regulations and workplace ordinances).

A compressed air supply R1/2" of 8 bar mains pressure must be available at the service lift assembly location.



**Care must be taken in selecting the assembly location so that the operator has an unobstructed view of the service lift and the car being lifted.**



**Only use dehumidified, non lubricated compressed air! A filter regulator must only be installed in the mains connection (air filter and water separator)!**

## 8.2 Assembly Instruction : Glidemaster & Econo 100

1/

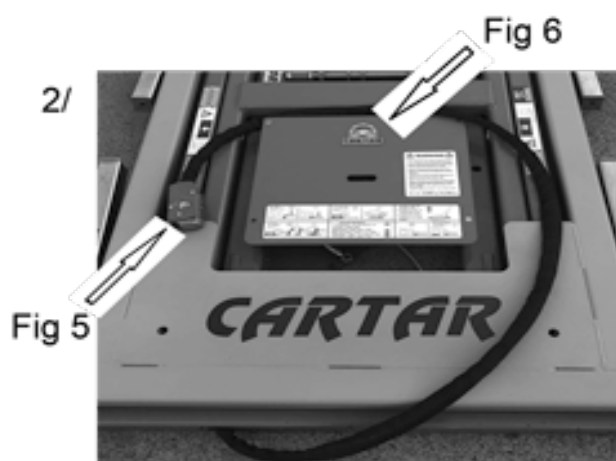


Inspect the Packaging and Contents for any damage or oil leaks .Remove the following items from your Lift.

- 1 x Tow Handle
- 4 x SUV Brackets .
- 4 x SUV Rubber Pads
- 1 x Quick Set Up Manual

Fig 6

2/



Totally dispose of all wrapping and miscellaneous items .Your Cartar Lift should now be sitting flat on a clean concrete floor .Lay out flat your Hand Control so as to inspect for any cuts or damage. (Fig 5) Inspect Oil Tank Breather for damage or blockage. (Fig 6 )

3/



Thread an Air-Connection fitting to your Hand-Control .Thread is 1/4 BSP ( Fig 7 ) Prior to fitting, apply a thread tape or sealant to the thread .Once in place , do not remove as resealing will be difficult

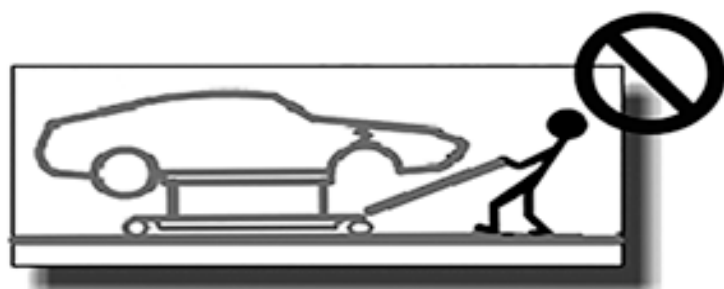
Fig 7

Insert 2 drops of machine Oil into your air-line fitting prior to connecting your air line . ( Fig 7) Your Cartar Lift is now ready to commission. It is recommended that you place a load of approx 300 kg on your lift for your initial Lift . Being new and reliant on gravity for descent , this will free up your product .

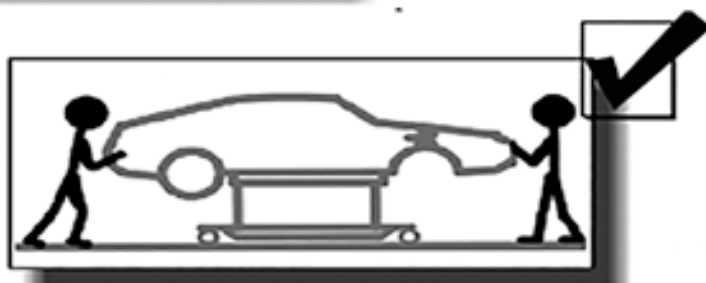
**PLEASE HAVE COMPLETE KNOWLEDGE OF THIS MANUAL BEFORE PROCEEDING**

4/

## USING YOUR TOW HANDLE



**DANGER  
and  
WRONG !!!!!**



**CORRECT  
and  
SAFE**

Never use your Tow Handle to Pull or Push your Cartar Lift when a Car is elevated Onboard .

The Tow Handle can be used at front or rear of Glidemaster ( Fig 8)

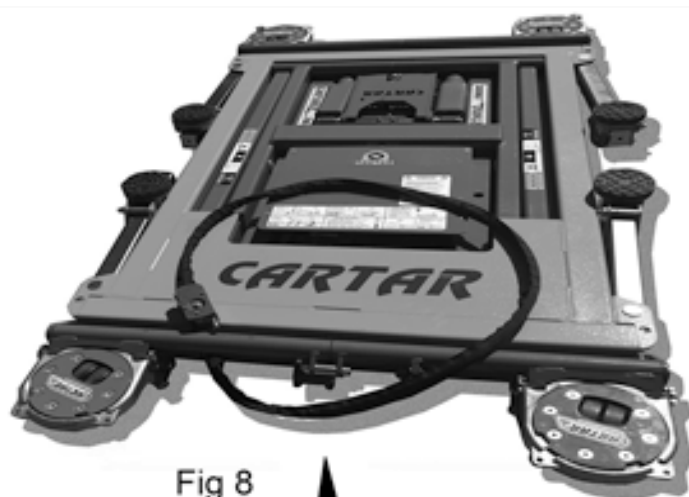


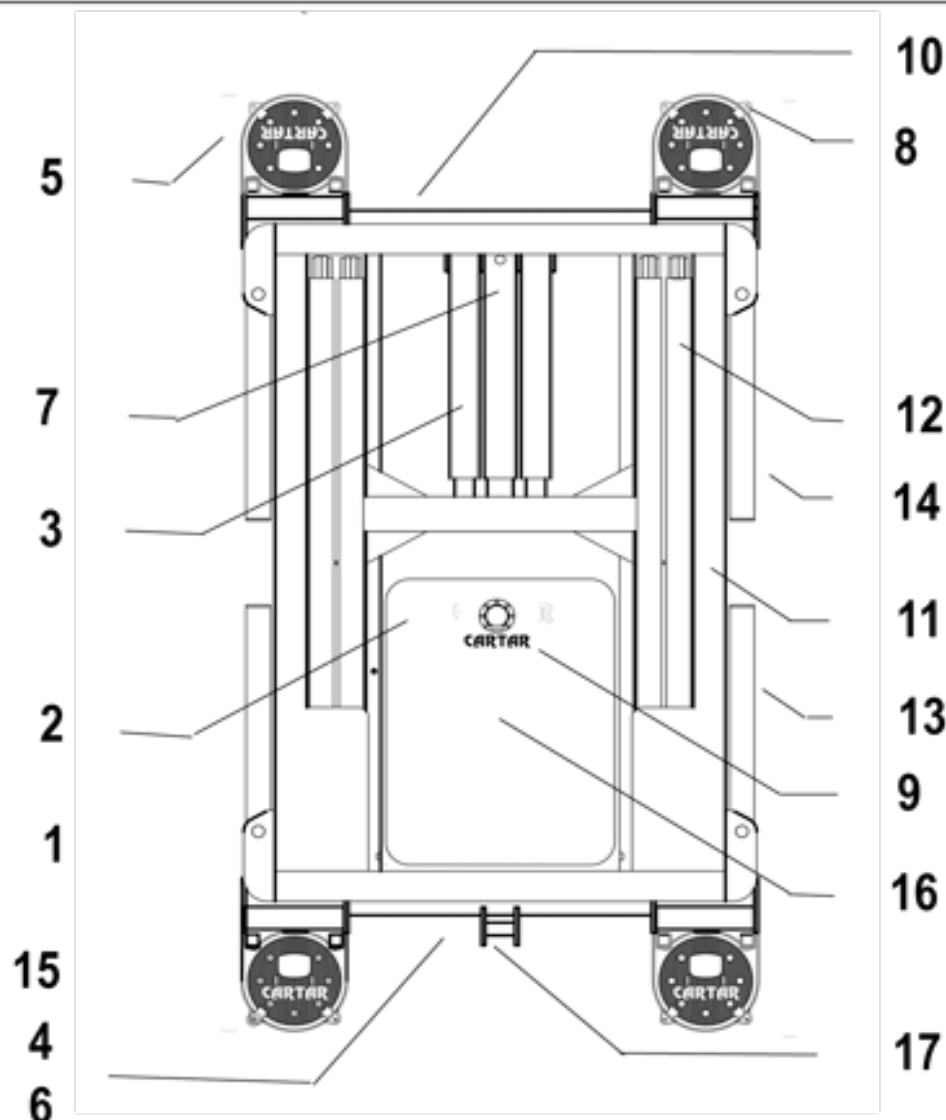
Fig 8



Fig 9



By using the Econo Wheel Kit ,  
your lift can now become por-  
able (fig 9)



## CARTAR LEGEND

- 1/ Oil Filler / Breather Cap
- 2/ Main Pump Ass Cover
- 3/ Hydraulic Cylinders
- 4/ Brake Locking Release
- 5/ Wheel Assembly
- 6/ Safety Latch Release
- 7/ Safety Lock Arm
- 8/ Wheel Directional Locks
- 9/ Oil Tank

- 10/ Blue Bass Frame
- 11/ Orange Top Platform
- 12/ Main Lift Arms
- 13/ Front SWing Arms
- 14/ Rear Swing Arms
- 15/ Control Pad
- 16 / Air Motor
- "Blow By "Hole
- 17/ Tow Handle Mount



## Hand Control Identification

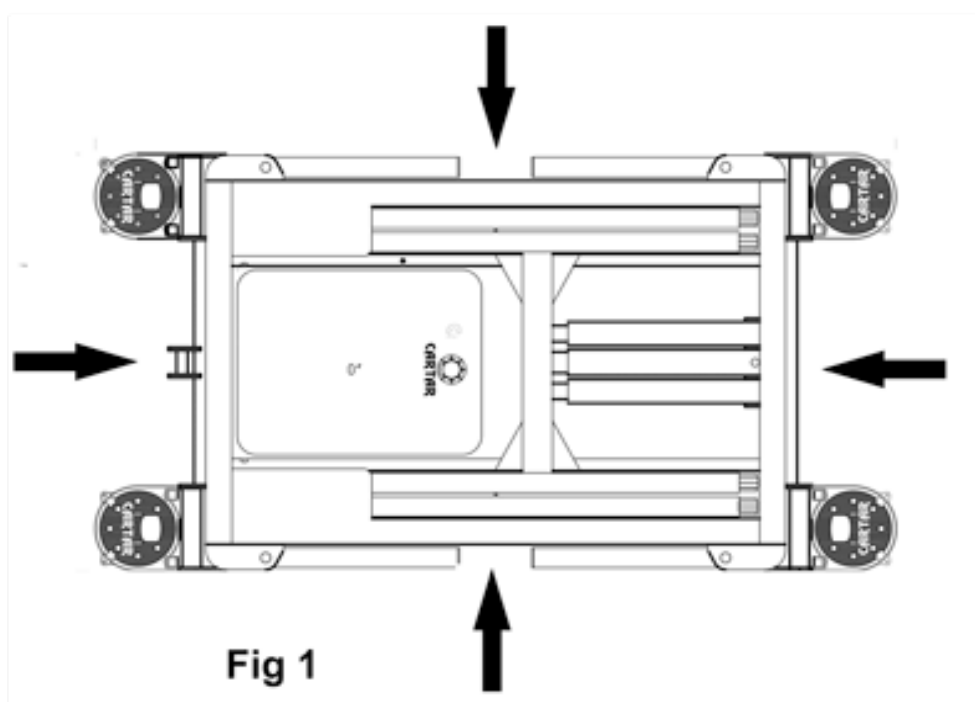
**SAFETY** - Release the Safety latch

**POWER** - Activates the Air Motor

**WHEELS** - When slide is pushed to WHEELS and POWER is pressed -Wheels will be released from Brake-Lock and Platform will descend .

**PLATFORM** - When slide is pushed to PLATFORM and POWER is pressed , Orange Top will raise and Wheels return to Brake-Lock Position

## POSITION UNDER A VEHICLE



Make sure the weight of your vehicle is evenly balanced across your orange platform , You can position your vehicle from Front , Rear , or side-on.( fig1 ) Remove the Tow Handle once your Lift is under the vehicle.Never push or pull your load with the Tow Handle . When moving your vehicle onboard your Lift , reasonable pressure may be applied to your vehicle to gain movement . IT IS RECOMMENDED TO ALWAYS USE 2 TRADES PERSONS WHEN MOVING

## WHEEL DIRECTION LOCK:

**LOCKED**

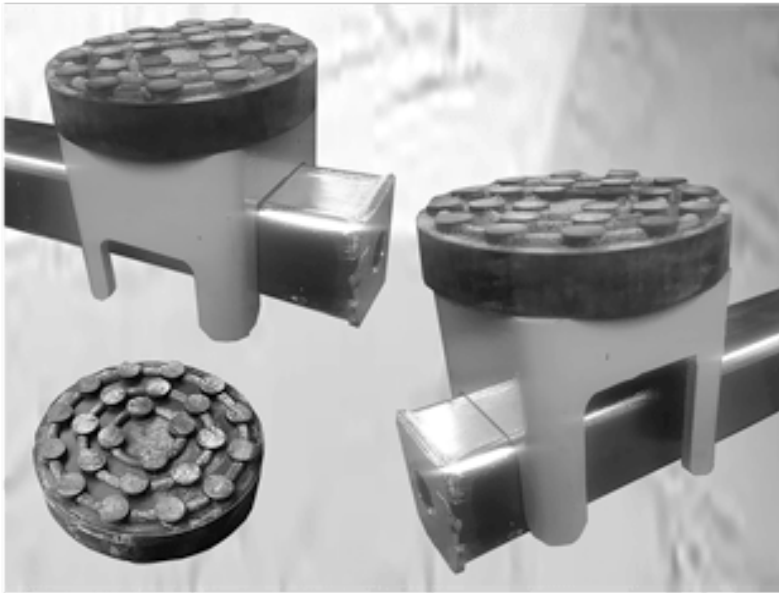


**UNLOCKED**



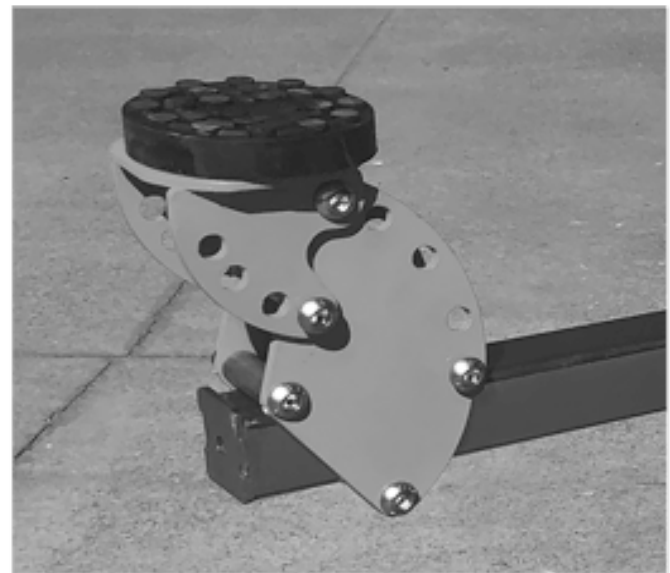
The Steering Locks are designed to assist the operator in the steering and control of the Cartar Glidemaster Mobile Lift . With 4 wheels released , your Glidemaster can turn 360 degrees on its own axis. Front steering Locks are available . Tools to lock and unlock require a 13mm / 1/2 inch open ended spanner and 6 mm Allen key

## OPERATION OF RUBBER PADS



As optional Cartar supply our Group 1 block system.. Strong and hardy they offer the ease of being able to replace the Rubber pads . Height options - 25 mm or 45 mm .These are a smart solution for Fast setups .

Standard with every Cartar lift are a set of our very unique SUV Kit system .The Cartar SUV Kit, offers the operator "One Bracket for all Cars ". Yes this will accomadate all cars. Height Options range from 30 mm up to 160 mm . Rubber Pads are replaceable.



The 4 Swing Arms have there own individual Locks. To move into place ,simply "Lift & Swing ". Once a load is applied to each arm , the lock will engage



## BRAKE-LOCK POSITION



**Brake-Lock Position** is when the wheels of your Glidemaster are off the ground , and no longer carrying any load and the blue base of your Glidemaster is sitting flat on your concrete floor. In this position , your Glidemaster is in its safest formate.

- Step 1 Make sure your hands, fingers and feet are well clear of the Lift
- Step 2 Connect Air-Line to your Hand-Control ( fig 1 )
- Step 3 On Hand-Control , push slide to PLATFORM (fig 2)
- Step 4 Blue Base will now lower and sit flat on concrete .  
You are now in BRAKE LOCK POSITION



## RELEASE-BRAKE LOCK

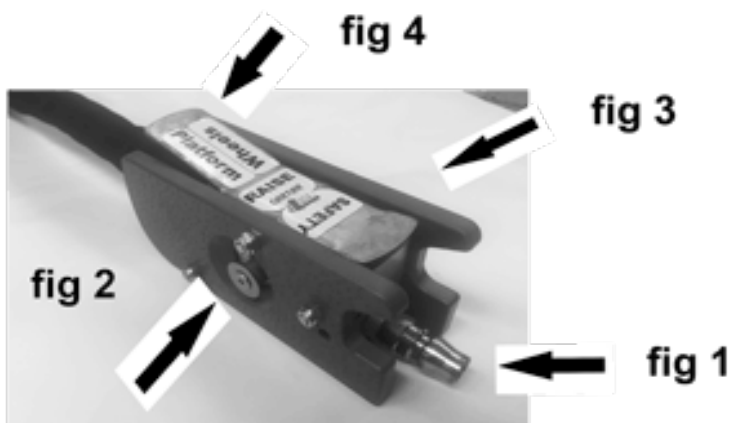


**WARNING - Once BRAKE LOCK has been released your vehicle will start rolling.**

- Step 1 Connect Air-Line to Hand-Control (fig 1)
- Step 2 On Hand-Control , push slide to Wheels (fig 3)
- Step 3 On Hand-Control push the RAISE trigger (fig 4)
- Step 4 Your Glidemaster is now mobile .Your Glidemaster now requires your total attention

**BRAKE LOCK POSITION** →

**BRAKE LOCK RELEASE** →

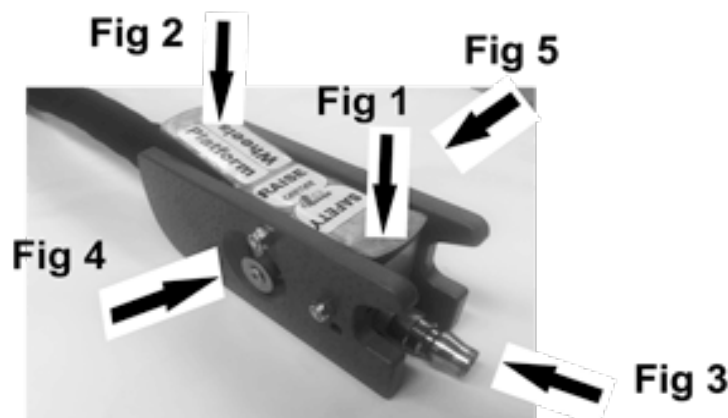


## TO LOWER VEHICLE

- Step 1 Conect Air-Line to Hand-Control (fig3)  
Reconnect Tow-Handle to base while you have under car access
- Step 2 Secure your Glidemaster into BRAKE LOCK position before proceeding to lower vehicle
- Step 3 Check that all persons and objects are clear of your lift for 3 meters prior to Lowering your Vehicle
- Step 4 On your Hand-Control , push slide to Platform
- Step 5 On Hand-Control ,push POWER (fig 20) to raise Platform aprox 30 mm to be able to release Safety Latch.
- Step 6 Now hold down SAFETY.
- Step 7 With SAFETY still being pressed , now push slide to WHEELS. (fig 5)
- Step 8 Vehicle and Orange Top will start to descend.
- Step 9 In the event of an emergency and descent needs to stop immediately , release pressure from SAFETY and your Vehicle and Orange platform will re-engage at the next Safety Latch.
- Step 10 To recommence your descent ,repeat steps 4,5,6 and 7 until your vehicle and Orange top has totally descended and your vehicle is sitting firmly on the ground and on its own wheels.
- Step 11 Remove your 4 Rubber Brackets from the Swing Arms and move your Swing Arms back into there retracted position.
- Step 12 Activate your Glidemaster wheels .Be advised that you will only need sufficent ground clearence between your concrete floor and the Base of your Glidemaster to be able to roll out from under your vehicle .
- Step 13 If you require extra ground clearance , because your vehicle is extremly low ,place your 2 Cartar ramps under the front wheels of your vehicle and then remove your Glidemaster .

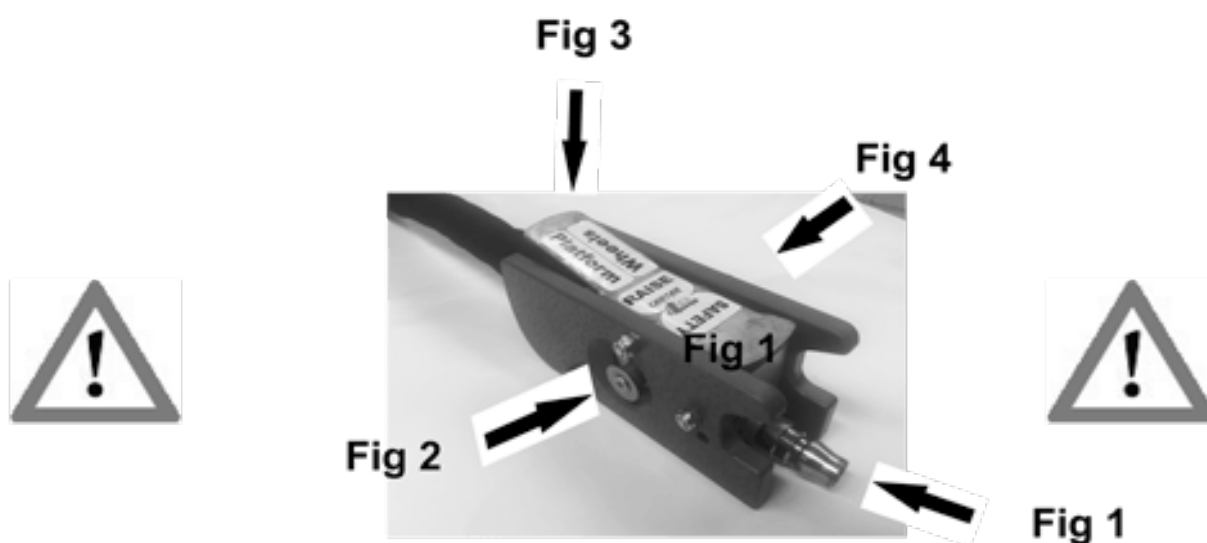
## HAND CONTROL

- 1/ SAFETY RELEASE
- 2/ POWER Trigger
- 3/ Main Air Connection
- 4/ Slide - Raise Platform / Brake Lock Wheels
- 5/ Slide - Release Wheels from "Brake Lock " / Lower Platform



## TO RAISE VEHICLE

- Step 1 Connect Air-Line to Hand-Control (fig 1)
- Step 2 Check that the Platform is fully lowered and that the base is in Release Brake-Lock and free to roll , but has minimal ground Clearance . No need to over-elevate your wheels .
- Step 3 Roll your Glidemaster under vehicle from either the front , rear or Side . If able , it is always preferred that you enter from either front or rear of Vehicle . Make sure that your vehicle is evenly balanced and the weight is spread across the 4 swing arms of your Lift in a safe manner. If your vehicle is extremely low and Glidemaster cannot roll under , use your Carter Ramps .
- Step 4 Lower base to Brake -Lock Position before proceeding to raise your Vehicle
- Step 5 Place your Rubber Pad assembly in there correct position .  
If uncertain about the lifting points on any vehicle , refer to the manufacturer .
- Step 6 Check that all persons and objects are clear for a 3 meter radius around your vehicle .
- Step 7 On the Hand-Control , push slide to PLATFORM (fig 2)
- Step 8 On the Hand-Control , push down POWER (fig 3)
- Step 9 Totally focus on your vehicle as it rises to desired height
- Step 10 Once at required height ,push Slide to WHEELS so that platform will descent to the next locking position on the Safety-Lock (fig 4)
- Step 11 Your Glidemaster is now ready to be released from BRAKE-LOCK position and be moved . When ever there is no need to move vehicle and Glidemaster , always return to BRAKE-LOCK position.
- Step 12 Once Glidemaster is in BRAKE-LOCK position and your Safety-Lock is engaged , you can also disconnect your air-line.



## Safety Inspection

Safety inspection is required to guarantee the operational safety of the service lift.

### It should be performed:

Before starting up the lifting platform for the first time by the manufacturer.

The use of which can be found under the section "operation and safety inspection"(**Chapter operation and safety inspection**).

After the first commissioning, check at regular intervals in accordance with Plant ,Health and Safety Regulations

The use of which can be found under the section "regular safety check"(**Chapter regular safety check**).

Document the condition of the service lift in a separate copy and attach it to the operating instructions and inspection log.



**Regular safety checks must be performed by a suitably-trained person. It is advisable to also implement maintenance at the same time.**

## Regular safety check

(In accordance with Health and Safety regulations !)

Device type	
Serial number	

Inspection step	OK	Not OK	re-examination	Remark
Nameplate				
Sign with lifting capacity				
Sign with bar mains pressure				
Operating instructions (abbreviated)				
Designation lift - lower				
Secure fit of all supporting screws				
Safeguard of the scissor pins				
condition of the pneumatic lines				
safety valve set to 3.5 bar operating pressure				
Pressure gauge bar mains pressure $P_{max} = 8$ bar				
Control lever returns automatically to the '0' position when released				
Safety catch function				
Loading ramps function				
Total inspection of all Hydraulic Hoses				
Functionality of the Hand Control				
Oil Tank Breather is clear and clean				
Air - Motor is running freely				
Condition of the supporting structure				
Functionality of the service lift with vehicle				

Inspection result	
	Start-up not permitted, verification required
	Start-up possible, faults to be rectified by: .....
	No fault, start-up possible immediately

Safety inspection performed on: .....

Name and address of qualified personnel: .....

.....  
Signature of competent person

.....  
Signature of operator

**With the required rectification of faults**

.....  
Signature of competent person

.....  
Signature of operator

## Maintenance

Maintenance work should be carried out at the specified maintenance intervals and only by qualified persons.

Neither water nor flammable liquids may be used during the cleaning process.

To ensure durability and continuous operation of the service lift, the following points should be observed:

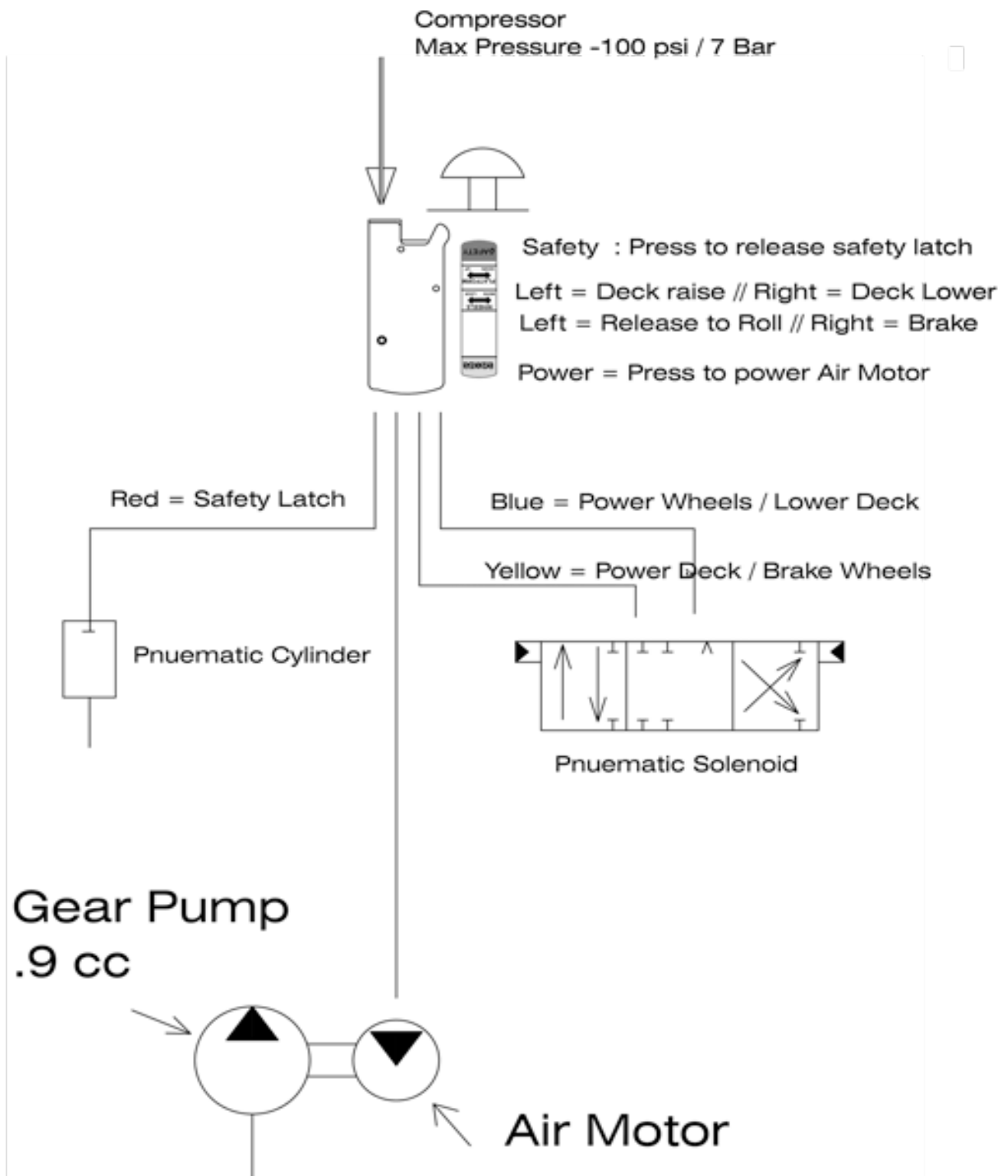


- Only spare parts from the original manufacturer and suitable tools may be used.
- Regular maintenance intervals must be observed.
- For all maintenance work not outlined or explained in this instruction manual, please contact your supplier or customer service of the manufacturer.

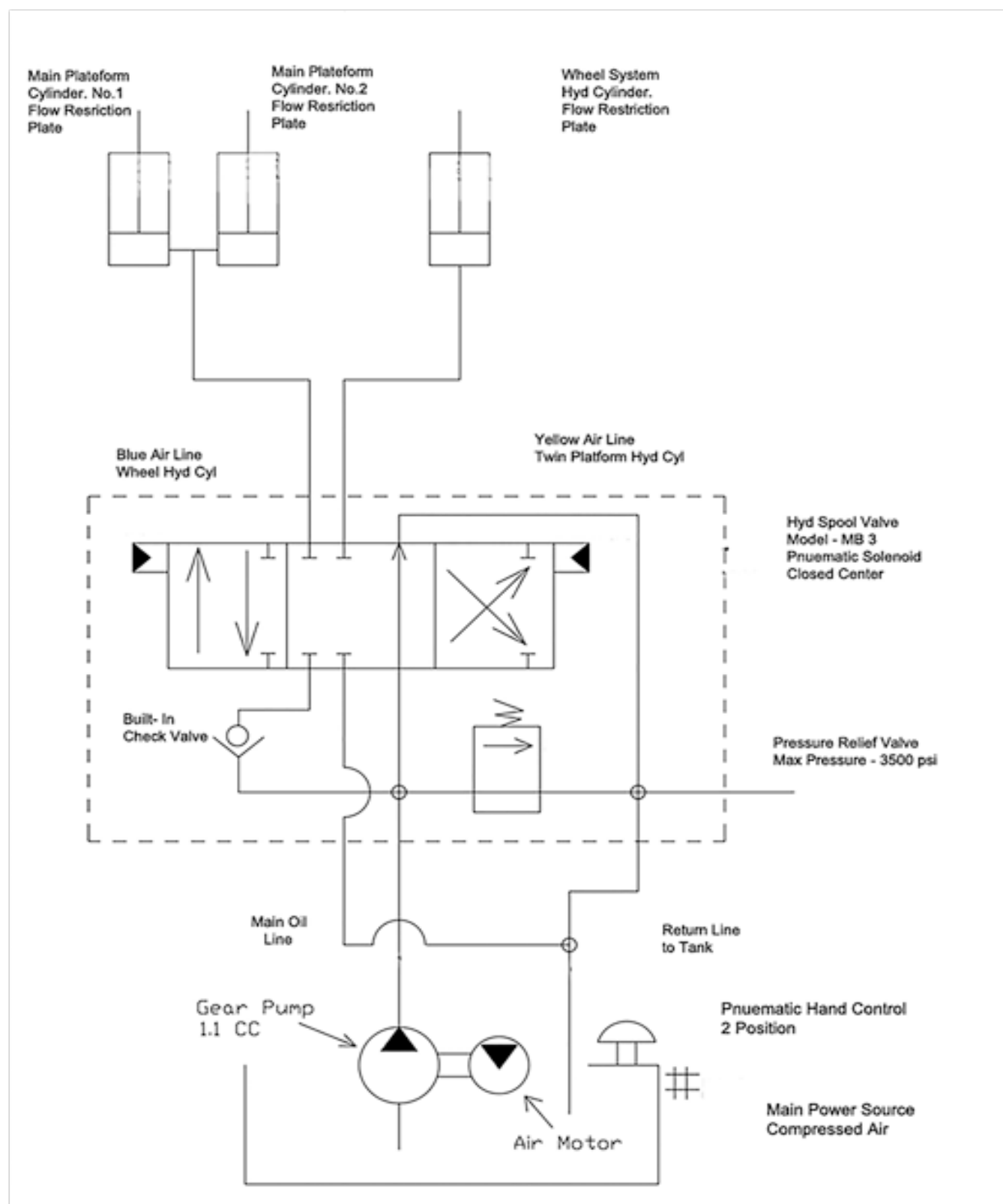
Only perform maintenance when the lift achieves a max. (unloaded), the lift platform is braced with service supports, and the compressed air supply is disabled!

Maintenance intervals	Points to follow	Comments
Monthly	<p>All moveable parts such as pivot bolts, sliding pads, and sliding surfaces should be check for wear and tear, cleaned, and lubricated.</p> <p>Check air bags and air tubes for any damages. Visually inspect and check for leaks. Examine the surface of the air bags for impurities, then clean, and maintain.</p> <p>Inspect valves for functionality and check for leaks.</p> <p>Check that the dowels are properly fixed. If necessary re-install or renew the support.</p> <p>Inspect the maintenance unit (filter regulator, provided by the customer), and consult the product manufacturer's instructions.</p>	<p>Only use lubricants that contain no adhesive-repelling substances in the area to be lubricated.</p> <p>Only suitable care and cleaning agents are to be used on rubber surfaces.</p>
Yearly	<p>Regular safety check (In accordance with §10 ( 2 ) Health and Safety regulations)</p> <p>Plant</p>	For test protocol see <b>Chapter Regular safety check.</b>
Replace the safety valve	After every 2 years of operation.	
Every 6 years of operation	Replace the complete air hoses.	

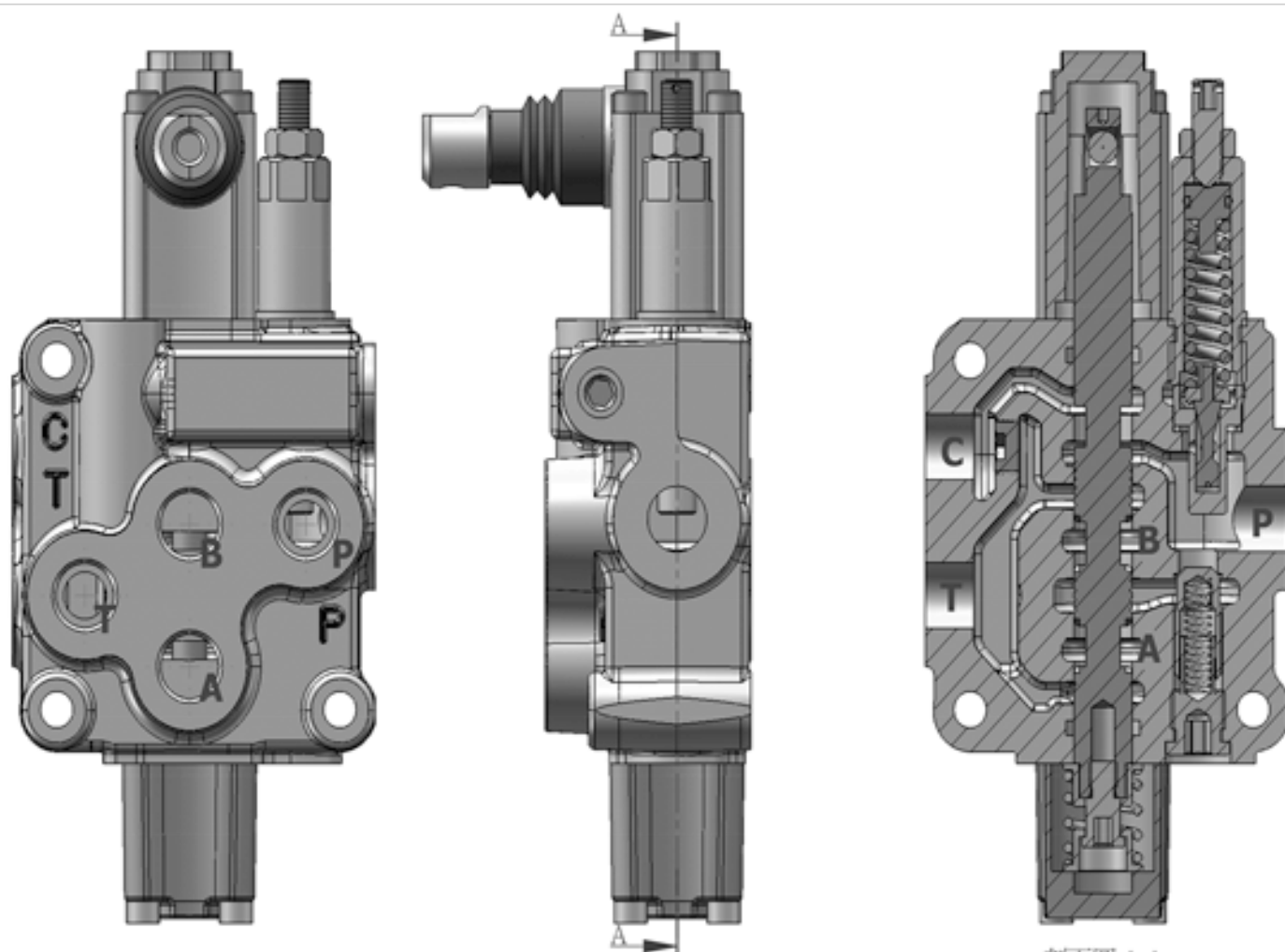
## Pnuematic Schematics



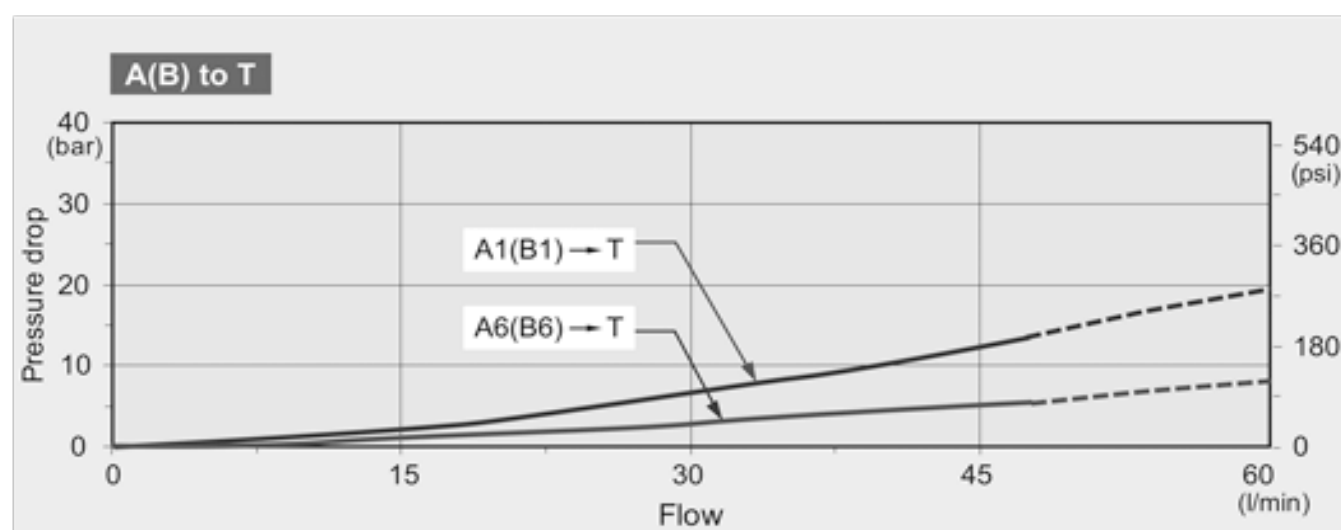
## Hydraulic Schematics



## Spool Valve Specifications



## MB-3 Performance Curve Chart Monoblock Directional Control Valve



Section	P/No.	Name	Description	Comments
Power Box	C100-100A	Cartar	Powder Blue Power box Body	Does not include Oil Tank, Alloy Badge
	C100-100B	Cartar	Oil Tank	with 2 Nylon O Rings, 2 Brass Retaining Nuts
	C100-101	Cartar Badge	Alloy "Cartar" Disc	
	C100-102	Oil Tank Breather	3/8 BSP Brass BSLM-03	Filler / Breather
	C100-103	Air Line Assembly	4 Airlines in Black Sheath x 2.5 mtrs	Complete Unit - End to End
	C100-104	Air Motor Ass	Complete Air Motor with Alloy Manifold	
	C100-105	Gear Pump Ass	1PF1.3L46Z02SS Gear Pump	
	C100-106	Spool Valve	MB-3/15-3/18PG-3/M3 with Pneumatic	
	C100-107	Alloy Coupling	1 Piece Standard Hole - 9.7 Coupling	
	C100-108	Alloy Coupling	1 Piece- M14 Thread Hole - 9.7 Coupling	
	C100-109	Rubber Spider	Spider-48 Series	
	C100-110	Muffler	B & S 294599 Muffler 3/4	Grey in Colour, with Nylon Elbow
	C100-111	Muffler Clamp	Tridon 33-57 mm	
	C100-112	Hyd Nipple	1/4 BSP - 3/8 BSPP male Nipple	Gear Pump to Hose - BPM-BTM-0604
	C100-113	Hyd Elbow	1/4 BSP- 3/8 BSPP male swivel Elbow	Valve to Hyd Hose - BPM-BTM-90C-0604
	C100-114	Muffler Hose	3/4 Flexi Grip - 120mm Cut Length	
	C100-115	1 - Hyd Hose Ass	Pump to Spool valve -Cut Length - 365mm	Fittings -1/4 BSP swivel Straight + 1/4 Swivel Elbow
	C100-116	2- Hyd Hose Ass	Valve to small Cyl - Cut Length - 240 mm	Fittings -1/4 BSP swivel Straight + 1/4 Swivel Straight
	C100-117	3- Hyd Hose Ass	Valve to Large Cyl - Cut Length - 1350 mm	Fittings -1/4 BSP swivel Straight + 1/4 Swivel Straight
	C100-121	Pneumatic Joiner	PUC04 4mm x 4 mm	
	C100-122	Pneumatic Elbow	PL04-G01 4 mm to 1/8 BSPP	
	C100-123	Air Motor Connector	1/2 " BSP to 12mm HoseTail Brass Fitting	Brass In Line to Air Motor manifold
	C100-124	Air Line Clamp	Tridon 15-18mm	10 mm Air Line to Brass fitting on Manifold
	C100-127	Hand Control Assembly	Alloy Block Ass with cover plates	
Safety Latch	C100-300	Outer Safety Body	Cartar Blue 65 x 65	1 per Lift
	C100-301	Inner Safety Rail	Cartar Zinc 50 x 50	1 per Lift
	C100-302	Inner Safety Latch	Cartar Zinc	1 per Lift
	C100-303	Cradle Latch	Cartar Zinc	1 per Lift
	C100-304	Latch Return Clip	Cartar Zinc	1 per Lift
	C100-305	Pneumatic Cylinder	Pneumatic Alloy Cylinder +push on Elbow	1 per Lift - includes large retaining Nut
	C100-306	Outer Retainer	90 degree bracket at end of Outer Body	Zinc plated with M 8 Nyloc Nut
Main Hyd Cylinder	C100-400	Main Hyd Cyl	73/63x40 st 585	Ashun Hydraulics
	C100-401	Cyl Orifice Plate	Cartar - 4 mm x hole size =1 mm	1 per lift
	C100-402	Cyl Hyd Nipple	1/4 BSP - 3/4 UNF male Nipple	BTM-UNM-0412
	C100-403	Retaining Bolt	3/4 x 6-1/2 Zinc 8.8 Bolt with "3/4 Cone Nut"	2 per Lift
	C100-404	Hyd "L" Plates	Cartar - 3 x 8mm Zinc Plates	3 per lift
	C100-405	"L" Plates Bolt	M16 x 170 Socket Head Unbrako + Nyloc	1 per lift
	C100-406	Hyd Seal Kit	To Suit main Cylinder	
Blue Base Ass	C100-700	Blue Base	Painted Base Frame	
	C100-701	Chain Roller Ass	3 x 6001 sealed bearings	4 sets per Lift
	C100-702	Roller Retaining Bolts	C/S M 12 x 50 mm Bolt + Nyloc	4 per Lift

## Troubleshooting

To avoid machine damage or life-threatening injuries while resolving faults with the lifting platform, the following points must be observed at all times:

- Only attempt to repair a malfunction if you are suitably qualified to perform such work.
- Protect the service lift from unintentional restart by disabling the compressed air supply.
- Secure the upper frame in the lifted position with a stand or a proper support.
- Also read the chapter "General Safety Instructions".

### 10.1 Possible problems and their resolutions

Malfunction	Source of fault	Rectification of errors
Malfunction while lifting	Pressure gauge of the maintenance unit without bar mains pressure. Hose lines squashed, bent, or damaged. Air Motor "Blow By" Gauge pressure 1 bar above allowable pressure of the safety valve	Make sure there is a mains pressure of $P_{max} = 8$ bar. Open the shut-off valve. Check the hose lines and if necessary replace them with new ones. Refer to Page 34 Check the safety valve for contamination and replace if necessary.
Malfunction while lowering	Lift platform is resting on top of an obstacle  Safety catch engaged	Raise the lift platform, remove the obstacle, and then continue lowering.  For bar mains pressure $P_{max} = 8$ bar make sure the gear lever is switched to "Lift" until the safety catch is free. Afterwards repeat the lowering movement.



If, despite the above measures, the lifting platform cannot be lifted or lowered, the customer service department must be notified.

Customer  
service:

CARTAR INDUSTRIES  
 9A Dalkeith Drv  
 Dromana , VIC 3936  
 AUSTRALIA  
 info@cartar.com.au  
 +61 3 59 87 1514



When replacing defective parts, always only use original spare parts from the manufacturer.

## FIXING AIR MOTOR “ BLOW BY ”

On occasions, you will press the “RAISE” trigger on your Hand-Control and whilst you hear air rushing , your Air-Motor is not turning . Air is exhausting through the motor without the motor turning . In this instance , we call this “ Blow By ”. What is happening is that air is running over the small vanes in your motor and not turning . This can be the result of a long period of oil mixed with oil over a long period of time .

When this occurs , simply follow the steps below :

- Step 1 : Disconnect your Air Line from the Hand Control .
  - Step 2 Take a small flat bladed screw driver and position it in the recess ( Fig 9 ) and rotate alloy pulley a 1/4 of a turn in either direction
  - Step 3 Put 4 drops of Oil in the Air Connection of your Hand-Control
  - Step 4 Reconnect air to your Hand-Control . Press RAISE on your Hand-Control and air motor should now respond .
- If not , repeat these 4 steps a second time



Fig 9



The following information is about operating your lift in a safe manner that does not put you or people near you at risk of INJURY or DEATH . It is vital for your safety that you fully understand BRAKE-LOCK position on your Glidemaster Lift . When your Glidemaster is in BRAKE-LOCK position and your Safety Latch is engaged , you have increased your level of Safety.

## Cartar Lift General Specifications

* <b>Retracted height:</b>	11 cm / 4 inches (exclude 5' wheels)
* <b>Elevated height:</b>	90 cm / 35 inches
* <b>Length when fully lowered:</b>	200 cm / 79 inches
* <b>Width when Arms retracted:</b>	100 cm / 39 inches
* <b>Power Source:</b>	Air Compressor
* <b>Maximum Lift Load:</b>	2,800 kg / 6,160 lbs
* <b>Shipping weight:</b>	330 kg / 727 lbs
* <b>Oil Grade:</b>	Hydraulic 46 grade
* <b>Oil volume in Tank:</b>	5 litres / 1.3 gallons
* <b>Wheel turning circle:</b>	360 degrees x 4 wheels
* <b>Leaf Chain:</b>	BL 534
* <b>Required Air Pressure:</b>	50 - 100 psi / 3.44 - 6.90 bar
* <b>Average Air Consumption</b>	13.0 cfm/ 6.2 L/sec.
* <b>Air Consumption at Load</b>	26.7 cfm/ 12.6 L/sec.
* <b>Country of Manufacture:</b>	AUSTRALIA
* <b>Power Pack and Oil Tank</b>	Built in onboard
* <b>Direction of Load:</b>	Front or Rear entry
* <b>Period of Warranty (conditional)</b>	Two Years - 24 Months

## Notice about the sliding area of the scissor

Due to the design principles of the sliding surfaces, great force is exerted . This force can lead to scoring on the sliding surfaces . However , the function of the service lift will not be compromised. The maintenance intervals and instructions out line in the Chapter Maintenance are to be observed

## Working on a Lifted vehicle

Follow the Legal Regulations for the prevention of Industrial Accidents  
 Make sure that no one is in the Space under the Lifted Vehicle  
 It is not allowed to rest Spare Parts or Tools on the Lifted Platform  
 Pay attention to the shift of the center of gravity when installing or dis -  
 mantling heavy parts to or from the Vehicle when elevated on your Lift  
 Respect the weight shifting when installing or dismantling heavy parts.  
 Thereby the vehicle can tilt over your Lifting Platform

## **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.