QUALITY GUARANTEE & WARRANTY

KENNEDY TOOLS carry a one year manufacturers warranty.

KENNEDY TOOLS are designed & manufactured to the highest standards & specifications.
Assuring the quality and performance required by all sectors of industry.

KENNEDY TOOLS are fully guaranteed against faulty materials & workmanship.
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).

Please retain supplier invoice as proof of purchase.

E C MACHINERY DIRECTIVE 2006/42/EC
DECLARATION OF CONFORMITY

We hereby certify that the KENNEDY Folding Mobile Crane Model FMC001 complies with all the relevant provisions of the EC Directive 2006/42/EC (The Machinery Directive of the Council of European Communities)

Harmonised Standards Applied: EN 1494:2000+A1:2008

Manufactured for
KENNEDY TOOLS
Wigston, Leicester, England, LE18 2FS.

www.kennedy-tools.co.uk

Signed:
Date: 30th January 2018
Name: Keith Read
Position: HSQE Manager.

CE

AVAILABLE FROM YOUR DISTRIBUTOR

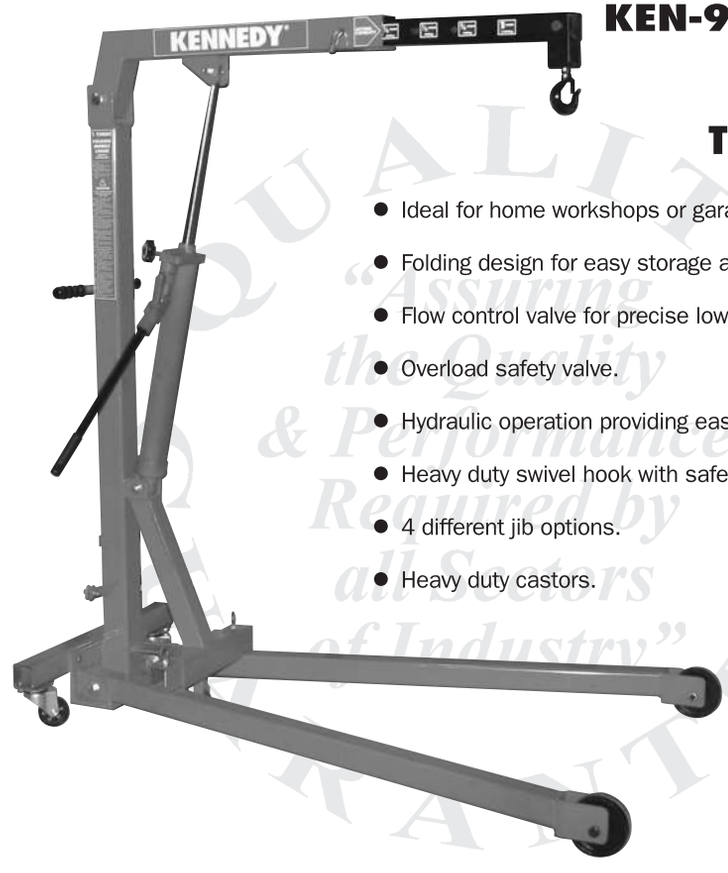
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KENNEDY®
QUALITY INDUSTRIAL TOOLING

FOLDING MOBILE CRANE

MODEL FMC001
KEN-941-3670K

1 TONNE



- Ideal for home workshops or garages.
- Folding design for easy storage and transportation.
- Flow control valve for precise lowering and positioning.
- Overload safety valve.
- Hydraulic operation providing easy lifting.
- Heavy duty swivel hook with safety latch.
- 4 different jib options.
- Heavy duty castors.

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INSTRUCTION MANUAL

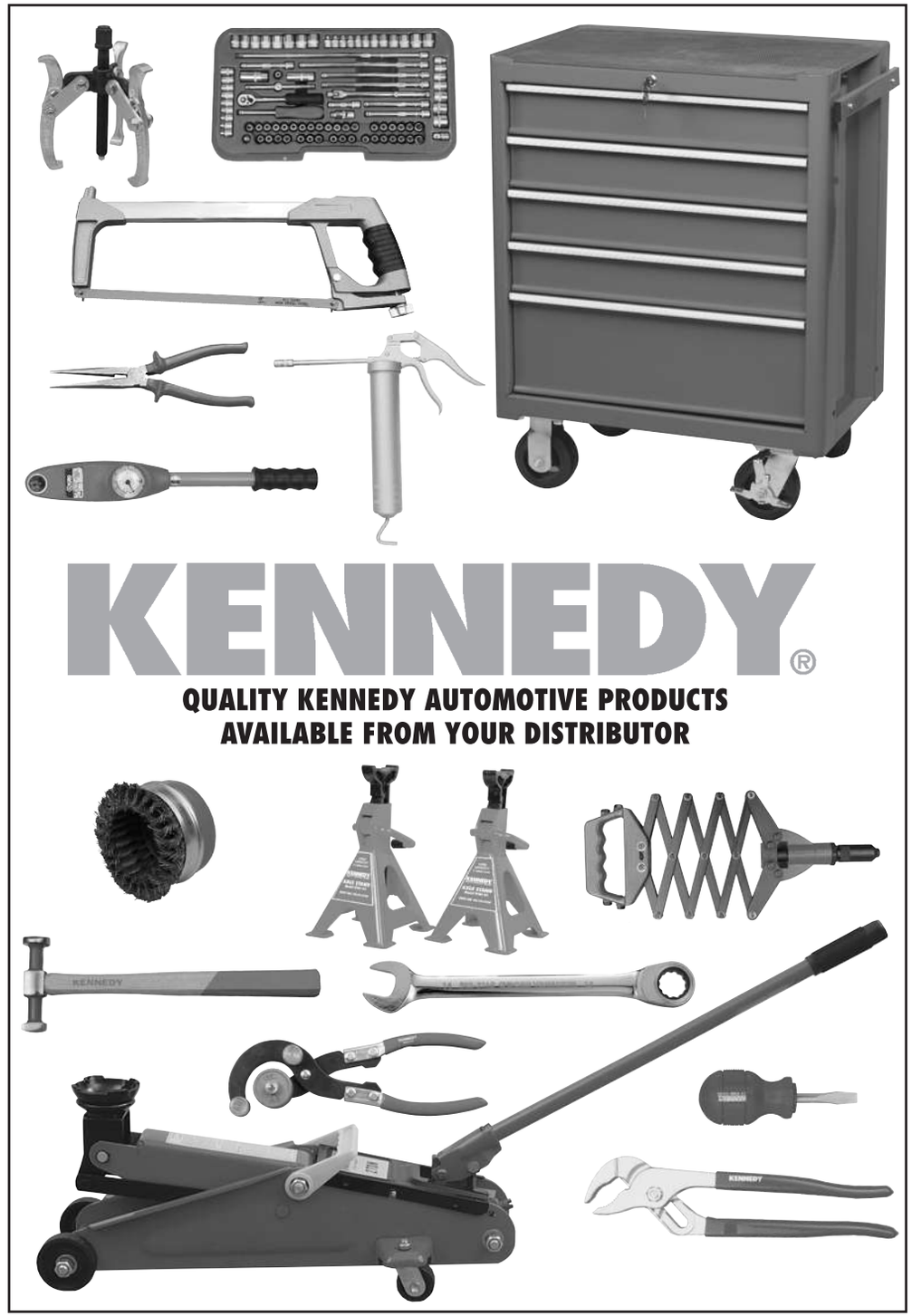
KENNEDY **thoroughly recommends reading these instructions before using the Folding Mobile Crane, even if you have used one before. Reading these instructions carefully and understanding them fully will enable you to perform tasks correctly and will prevent injury to yourself or someone else as well as prevent damage to the vehicle and equipment.**

SAFETY GUIDELINES

- Before each use, ensure that all nuts and bolts are correctly fitted and are tight.
- Before use, bleed the hand pump to release any trapped air.
- Do not modify in any way.
- Do not operate the crane if any parts are missing, damaged or faulty.
- Do not operate the crane when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- Keep children and unauthorised people away from the work area.
- Keep the work area clean and tidy.
- Make sure the legs and jib are locked into position before use.
- Make sure you are aware of any other people near you when you are using the crane.
- The crane is a lifting and lowering device only and is not intended for transporting items around the workshop.
- The crane is intended for use by qualified mechanics who are familiar with its use.
- The nuts and bolts used in the construction of this crane are all high strength. They should not be replaced with any that are inferior.
- Use on a level and firm surface. Do not use on tarmac or soft surfaces.
- Always make sure the centre of gravity remains inside the crane base.
- Do not allow the load to drop suddenly. Open the valve slowly.
- Do not allow yourself or anyone else to be under the load when it is being lifted.
- Do not exceed the crane's rated load capacity.
- Do not harness the load at an angle or allow it to swing when it is lifted.
- Do not overreach.
- Do not climb or stand on the crane.
- Ensure the surface you are lowering the load onto is level and can withstand the weight.
- Refill with hydraulic fluid only, making sure no dirt gets into the hydraulic system. Do not use brake fluid.
- Stay alert at all times.
- Do not allow the crane to get wet or remain in a damp environment.
- Store in a secure, dry place, out of reach from children.
- When not in use, release the pressure from the pump.

HEALTH & SAFETY

A valid Product Test Certificate is included with this Folding Mobile Crane. Lifting equipment must be thoroughly inspected by an independent examiner every twelve months. The test report must be kept in a safe place and produced upon request. It may also be necessary to provide your insurers with a copy of it. If a defect is reported, the Folding Mobile Crane must not be used until the fault is rectified.



CARE & MAINTENANCE Continued

LUBRICATING: Use light oil on all moving parts.

WHEN NOT IN USE: Wipe clean with a slightly oiled cloth. Store with the release valve open.

STORAGE:

Lower the jib into it lowest position (fig. 4). Unscrew the pump handle and store it in the back of the main post (fig.5). Unscrew the two fixed screws on the moveable bolster (fig. 6). Slide the moveable bolster to one side (fig. 7). Pull one of the legs out and lift it upright (fig. 8). Secure the leg with the retaining screw (fig. 9). Slide the moveable bolster to the other side, pull out the leg, lift it upright and secure it with the retaining screw (fig. 10). Slide the moveable bolster back into the centre and replace the fixed screws (fig. 11).

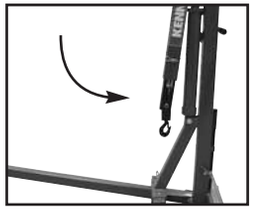


fig. 4

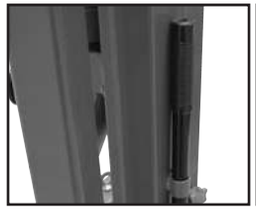


fig. 5

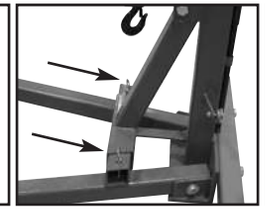


fig. 6

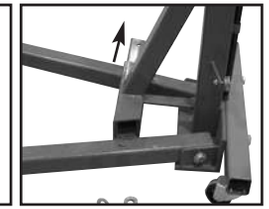


fig. 7

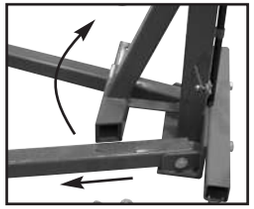


fig. 8

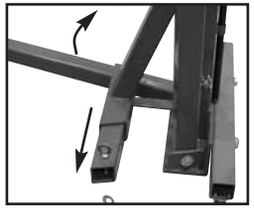


fig. 9

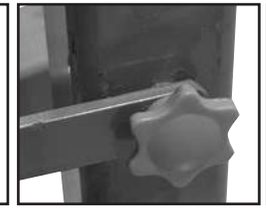


fig. 10

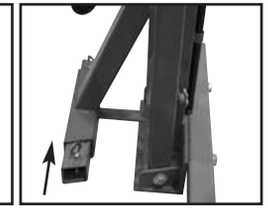


fig. 11

TROUBLE SHOOTING

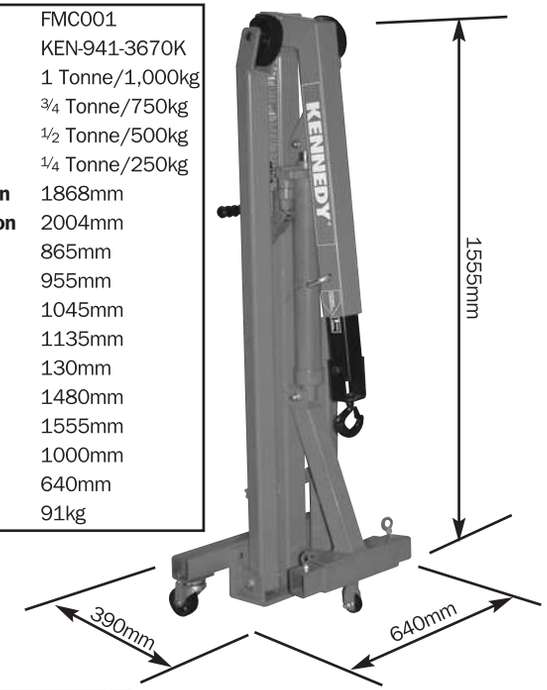
Repairs must be performed in a dirt-free environment by a qualified person who is familiar with this type of equipment. All inspections, maintenance and repair procedures must be performed when the folding mobile crane is free of load (not in use).

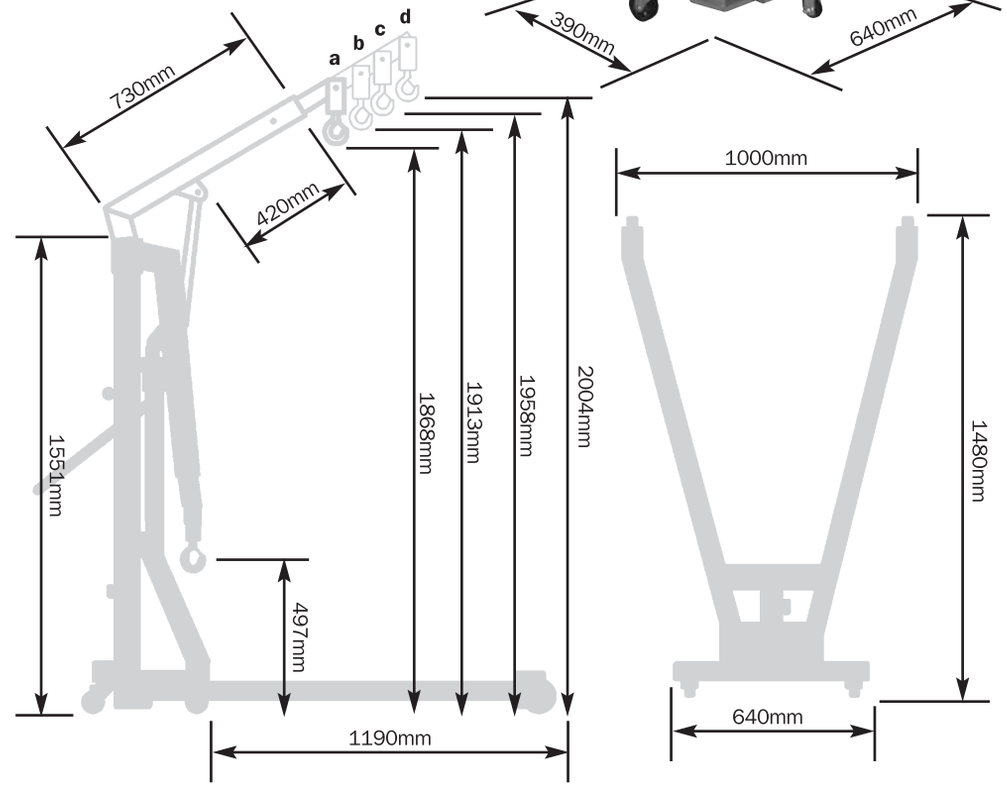
FAULT	POSSIBLE CAUSE	SOLUTION
Failure to lift the load.	1. Low oil level. 2. Release valve is open.	1. Turn the release valve counterclockwise to allow the ram to fully retract. Remove the filler plug screw. With the jack in a vertical position, the oil level should be at the bottom of the hole. If not, fill with new hydraulic oil. Do not over fill. Replace the filler plug screw. 2. Close the release valve.
Failure to hold a load.	1. The release valve is open. 2. The hydraulic ram has air trapped in it. 3. Dirt in the oil. 4. The release valve is not sealing.	1. Close the release valve by turning the handle clockwise. 2. Open the release valve by turning the handle counterclockwise. Pump the handle until the lifting arm reaches its maximum height and then a few more times to remove the trapped air. Open the release valve to allow the lifting arm to retract. Close the release valve and check the ram to see if it is working properly. Repeat the procedure if necessary. 3. Replace the existing oil with new hydraulic oil. 4. Clean the release valve.
The lifting arm will not lower.	1. The ram is binding (sticking).	1. Replace the hydraulic ram.
The ram feels spongy when lifting.	1. The hydraulic ram has air trapped in it.	1. Open the release valve by turning the handle counterclockwise. Pump the handle until the lifting arm reaches its maximum height and then a few more times to remove the trapped air. Open the release valve to allow the lifting arm to retract. Close the release valve and check the ram to see if it is working properly. Repeat the procedure if necessary.

CAPACITIES

Model Number	FMC001
Order Code	KEN-941-3670K
Lifting Capacity Position (a)	1 Tonne/1,000kg
Lifting Capacity Position (b)	3/4 Tonne/750kg
Lifting Capacity Position (c)	1/2 Tonne/500kg
Lifting Capacity Position (d)	1/4 Tonne/250kg
Maximum Lifting Height at Minimum Jib Extension	1868mm
Maximum Lifting Height at Maximum Jib Extension	2004mm
Length of Jib in Position (a)	865mm
Length of Jib in Position (b)	955mm
Length of Jib in Position (c)	1045mm
Length of Jib in Position (d)	1135mm
Clearance Height of Legs	130mm
Length of Frame	1480mm
Overall Clearance Height	1555mm
Maximum Width of Frame	1000mm
Distance Between Rear Wheel Centres	640mm
Weight	91kg

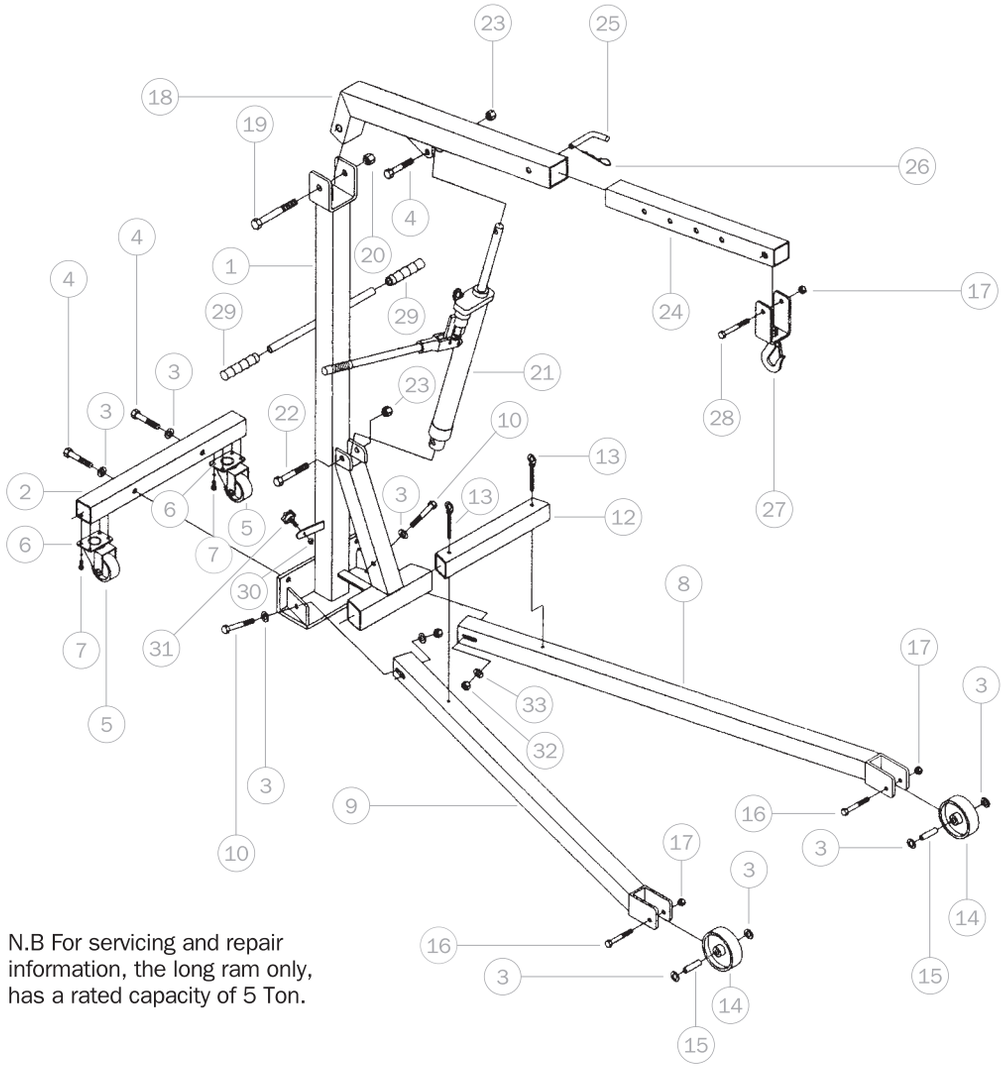
1 tonne (metric ton or t) = 1000Kg
1 ton (imperial ton) = 2240lbs (1016Kg)





PARTS

1	Main Post	**12**	Moveable Bolster	**23**	Nut
2	Bolster	**13**	Fixed Screw	**24**	Boom Extension
3	Washer	**14**	Castor	**25**	Lock Pin
4	Bolt	**15**	Bushing	**26**	Cotter Pin
5	Castor	**16**	Bolt	**27**	Hook
6	Spring Washer	**17**	Nut	**28**	Bolt
7	Screw	**18**	Boom	**29**	Handle Grip
8	Left Leg	**19**	Bolt	**30**	Nut
9	Right Leg	**20**	Nut	**31**	Retaining screw
10	Bolt	**21**	Long Ram	**32**	Nut
11	Nut	**22**	Bolt	**33**	Washer



N.B For servicing and repair information, the long ram only, has a rated capacity of 5 Ton.

ASSEMBLY

TOOLS NEEDED: 12mm, 22mm and a 27mm sockets or spanners.

1. You will find that the majority of the parts of the crane are already assembled. Please take care when assembling the mobile folding crane, as parts are heavy.
2. Lift the main post (1) upright and attach both of the legs (8 & 9) onto it.
3. Slide the moveable bolster (12) on to the front of the main post (1) and screw in the two fixed screws into the legs (8).
4. Attach both of the castors (5) onto the bolster (2) and attach onto the main post.
5. Attach the hook (27) onto the end of the boom extension (27).

OPERATING

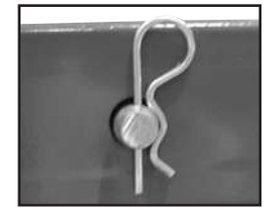
INSPECTION OF THE MOBILE FOLDING CRANE BEFORE EACH USE

Before each use of the crane it is important that it is thoroughly inspected for leaks, damage or any loose or missing parts.

The crane must be inspected immediately if it has been subjected to any abnormal loads or shock. This should be done by a suitably qualified person.



fig. 1


fig. 2

1. Turn the release valve to the right to close the valve. (see fig. 1)
2. Pump the handle to raise the arm. Pull out the jib and select the desired lifting capacity, making sure that the locking pin and cotter pin are replaced. (see fig. 2)
3. Connect the load using an appropriate certified sling or support beam. Ensure you know the weight of the load and that it is below that of the capacity of the crane at the jib position you are using. When removing engines, use only lifting points recommended by the vehicle manufacturer.
4. Only lift directly above the load and not at an angle.
5. Turn the release valve anti-clockwise to lower the arm.
6. The crane is not a transporting device and may only be used to reposition the load ready for working on. Lower the load and jib to the lowest position before moving. Do not move the load in a sideways direction. The crane is not designed to hold the weight for a long period.
7. Lower the load onto a suitable and secure working base, being fully aware of your own and other people around you.
8. When the load has been successfully lowered and secured, remove the harness or support beam, retract the jib, open the valve and position the crane in a safe location.

CARE & MAINTENANCE

CHECKING & FILLING THE OIL RESERVOIR:

1. Lower the arm fully.
2. Remove the oil filler plug screw (See fig.3) and check the oil level. It should be at the bottom of the filler plug screw hole.
3. Always follow the precautions advised by the oil manufacturer.
4. Using hydraulic oil **ISO VG.22.32**, fill until the oil is at the bottom of the filler plug screw hole. DO NOT USE BRAKE FLUID.
5. Pump the handle 5 or 6 times to bleed air out of the system.
6. Screw on the filler plug screw.

Avoid mixing different grades of oil.
After long periods of use, the oil should be replaced with new oil.


fig. 3

BLEEDING THE SYSTEM:

Air can accumulate in the hydraulic system during transit, after prolonged use or after filling with oil, causing the ram to respond slowly or in an unstable manner. To remove the air, please follow these steps.

1. Turn the handle anti-clockwise no more than one complete turn to lower the arm.
2. Remove the filler plug screw.
3. Pump the handle 5 or 6 times to bleed air out of the system.
4. Turn the handle clockwise until it can no longer be turned.
5. Replace the filler plug screw.