

THE TOOL COMPANY

2 TONNE FOLDING HYDRAULIC ENGINE CRANE

STOCK No.63285

PART No.EC2000

• INSTRUCTIONS •

IMPORTANT: IT IS IMPORTANT THAT YOU READ AND UNDERSTAND THIS INSTRUCTION MANUAL BEFORE USING YOUR ENGINE CRANE. ALWAYS ENSURE ITS CORRECT USE, WHICH WILL HELP PREVENT DAMAGE AND INJURY.



GENERAL INFORMATION

This manual has been compiled by Draper Tools and should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the machine.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tool policy of continuous improvement determines the right to make modifications without prior warning.

2 TONNE FOLDING HYDRAULIC ENGINE CRANE

■ STOCK No.63285 ■ PART No.EC2000

CONTENTS:-

	Page Nos.
Index/Declaration of conformity	1
Specification/Warning	2
Know your engine crane	3
Assembly/Operating instructions	4
Optional accessories/Maintenance.....	5
Troubleshooting.....	6



DECLARATION OF CONFORMITY

We
Draper Tools Ltd. Hursley Road, Chandlers Ford, Eastleigh, Hampshire. SO53 1YF. England.

Declare under our sole responsibility that the product:

Part Number:- EC2000

Stock No:- 63285

Description:- Engine Crane

To which this declaration relates is in conformity with the following directive(s):- 98/37EC .



JOHN DRAPER
Managing Director

10/2000

SPECIFICATION

Whilst every effort has been made to ensure accuracy of information given in this manual is correct at the time of going to print, the Draper Tools policy of continuous improvement determines the right to change specification without notice.

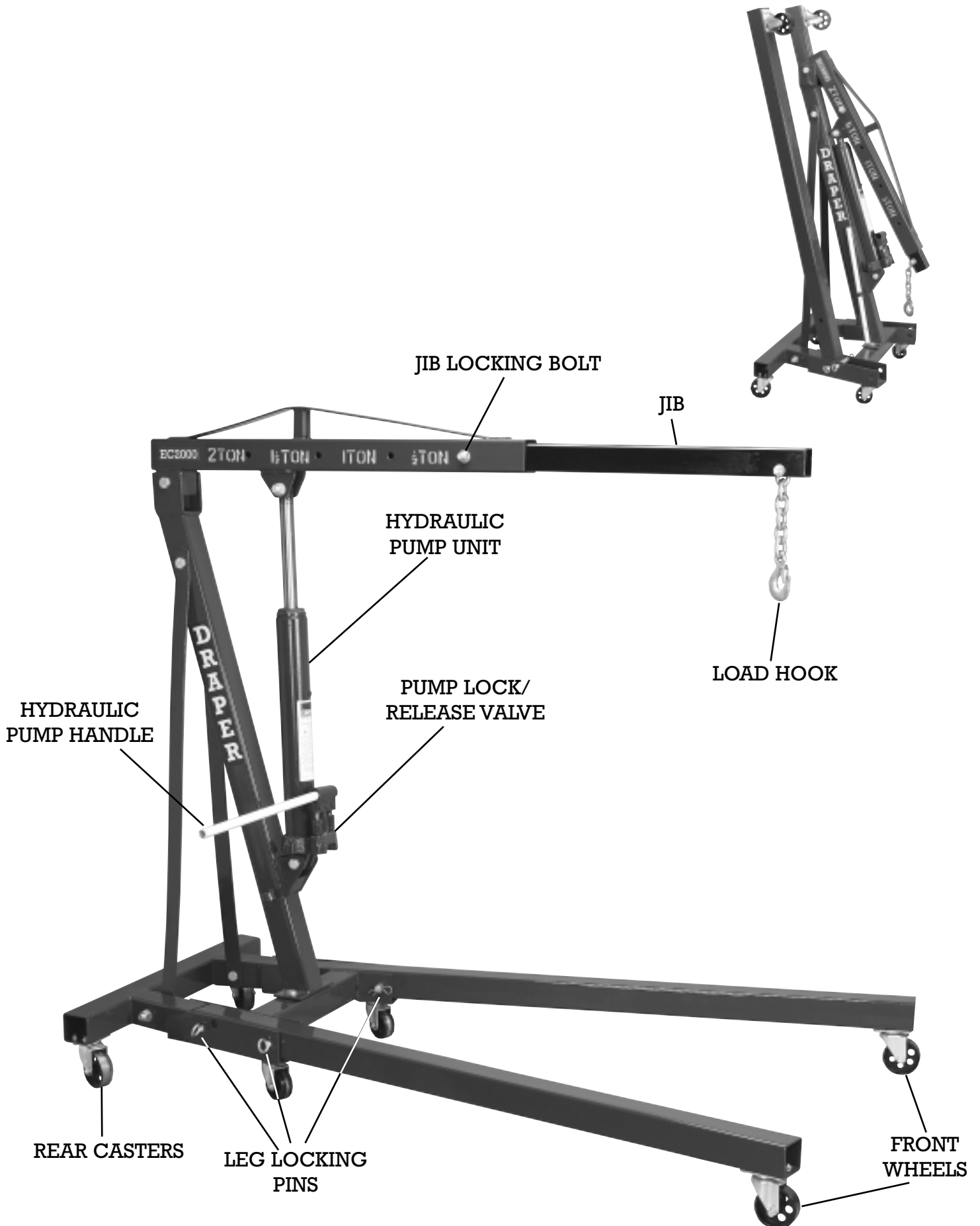
Lifting capacity position 1	2000kg.
Lifting capacity position 2	1500kg.
Lifting capacity position 3	1000kg.
Lifting capacity position 4	500kg.
Maximum lifting height min. jib ext.....	1990mm.
Maximum lifting height max. jib ext.....	2350mm.
Length of jib position 1	940mm.
Length of jib position 2	1120mm.
Length of jib position 3	1300mm.
Length of jib position 4	1480mm.
Height of frame	1400mm.
Length of frame	1830mm.
Overall height	2350mm.
Width of frame max.....	1070mm.
Distance between centre of rear wheels	705mm.
Weight	93kg.

WARNING

- Do not overload. Overloading could cause damage or failure of the engine crane.
- Never use the crane on an uneven floor surface as this could result in the crane tipping over.
- Always lock the legs and jib in position before lifting a load.
- The nuts and bolts supplied with the crane are all high strength and should not be substituted for inferior types.
- Before each use ensure that all nuts and bolts are correctly fitted and tight.
- Never exceed the safe working loads indicated on the jib.

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN LOSS OF LOAD AND/OR PERSONAL INJURY OR DAMAGE TO PROPERTY.

KNOW YOUR ENGINE CRANE



ASSEMBLY

NOTE: During the assembly procedure, nuts and bolts should be hand-tightened only. Once assembly is complete, nuts and bolts should be fully tightened.

1. Referring to the spare parts drawing, attach the castor wheels (No.24) to the base using the nuts and bolts supplied.
2. Insert the left hand leg (No.30) into the base (No.21) and lock the leg in place using two locking pins (No.26). Secure these in place using two split-type pins (No.27). Now repeat this procedure for the right hand leg.
3. Attach the main support post (No.14) to the base assembly (No.21) using the nuts and bolts supplied.
4. Now secure the boom (No.8) to the main support post (No.14) using the nuts and bolts supplied.
5. Next, the ram unit (No.19) should be attached to the main support post (No.14) using the nuts and bolts supplied. Then secure the ram unit to the boom using the nuts and bolts supplied.
6. Insert the boom extension (No.6) into the main boom (No.8), secure in one of the four positions using the nuts and bolts supplied.
7. Attach the hook and chain assembly (No.1) to the boom using the nuts and bolts supplied.
8. Secure handle (No.18) into the pump unit (No.19).
9. Now tighten all nuts and bolts.

OPERATING INSTRUCTIONS

WARNING:

- THIS DOUBLE PUMP LONG RAM IS DESIGNED FOR LIFTING PURPOSES ONLY - NOT FOR SUPPORTING LOADS.
- DO NOT LOAD BEYOND ITS RATED CAPACITY.

IMPORTANT: It is possible that air can get into the hydraulic system, causing poor lifting performance. Purge any air from the system by fully opening release valve (turn handle anti-clockwise), then while holding the boom down, operate pump handle rapidly several times.

TO RAISE LOAD

Close release valve and turn the handle **CLOCKWISE** until it is **HAND-TIGHT**. (**DO NOT OVERTIGHTEN**).

TO LOWER LOAD

Open release valve by turning handle **ANTI-CLOCKWISE** very slowly. The speed of lowering is controlled by how fast or slowly the handle is turned.

NOTE: Before raising the legs to the storage position, the boom must be in its 2ton lift position and the jib in the lowest position. Then the split pins (No.27), frame pin (No.26), can be removed from the front holes, the legs raised up and the pins secured in the special locking holes to stop the legs from falling back down. If this procedure is not followed, the unit may fall over.

OPTIONAL ACCESSORIES

The following accessories are available from your Draper stockist.

Engine stand: Max. load 450kg.

Part No. ES450.

Stock No. 53092.



MAINTENANCE

IMPORTANT: When adding or replacing oil, always use a good grade hydraulic jack oil such as Shell Tellus 22.

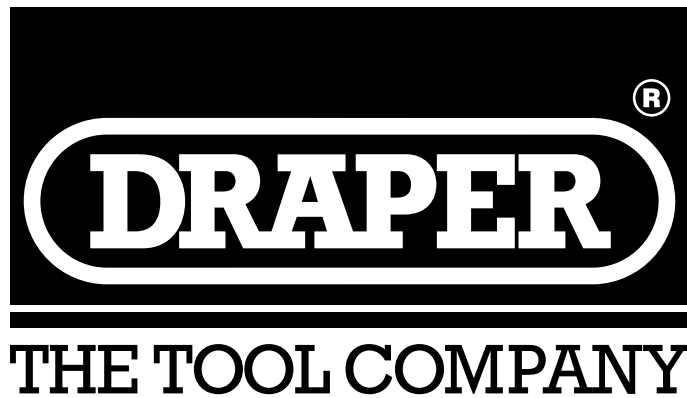
Avoid mixing different grades/types of oil. DO NOT use brake fluid, alcohol, glycerine, detergent motor oil or dirty oil. Improper fluid can cause serious internal damage to the long ram.

When adding oil, be VERY CAREFUL not to permit dirt or foreign matter to get into the system. Check ram and plunger every 3 months for any signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

When not using the long ram, always leave the jib in the fully lowered position.

TROUBLE SHOOTING

Trouble	Probable Cause	Remedy
Will not hold load.	Dirt on valve seats.	1. Lower lifting boom. Close the release valve and remove oil filler plug. 2. Place one foot on the leg and pull up the lifting boom to its full height by hand. 3. Open the release valve to lower the lifting boom. 4. Replace seals.
Will not lift load. Will not lift to its full height. Pump feels unsteady under load. Pump will not lower completely.	Air block.	1. Open the release valve and remove oil filler plug. 2. Pump handle a couple of full strokes and close the release valve.
Pump will not lift to its full height. Pump feels unsteady under load.	The reservoir could be overfilled. Low hydraulic oil level.	Check the oil level. Remove the filler plug. Top up oil to correct level.
Pump feels unsteady under load.	The pump cup seal could be worn out.	Replace cup seal with a new one.
Will not lower completely.	Air block. Unit requires lubrication.	Release air from hydraulic pump by removing filler plug. Oil external moving parts.



DRAPER TOOLS LIMITED,

Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.

Helpline: (023) 8049 4344.

Sales Desk: (023) 8049 4333.

General Enquiries: (023) 8026 6355.

Fax: (023) 8026 0784.



www.draper.co.uk

e-mail: sales@draper.co.uk

YOUR DRAPER STOCKIST

©Published by Draper Tools Ltd.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.