EC2000 ENGINE CRANE

OWNER'S MANUAL

2 TONNE MAX CAPACITY



WARNING

Do not overload. Overloading could cause damage or failure of the crane. Never exceed the safe working loads indicated on the jib.

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.

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 has got into the hydraulic system causing poor lifting performance. Purge any air from the system by fully opening the release valve (turn handle counter-clockwise) then while holding the boom down operate the pump handle rapidly several times.

Note: Before raising the legs to the storage position bolts must be inserted into the base support and tightened each time. If this procedure is not followed the unit may fall over.

MAINTENANCE

IMPORTANT: When adding or replacing oil always use high grade hydraulic jack oil. 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 ram.

When adding oil be very careful not to permit dirt or foreign matter to enter 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 ram always leave the jib in the fully lowered position.

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OPERATING INSTRUCTIONS

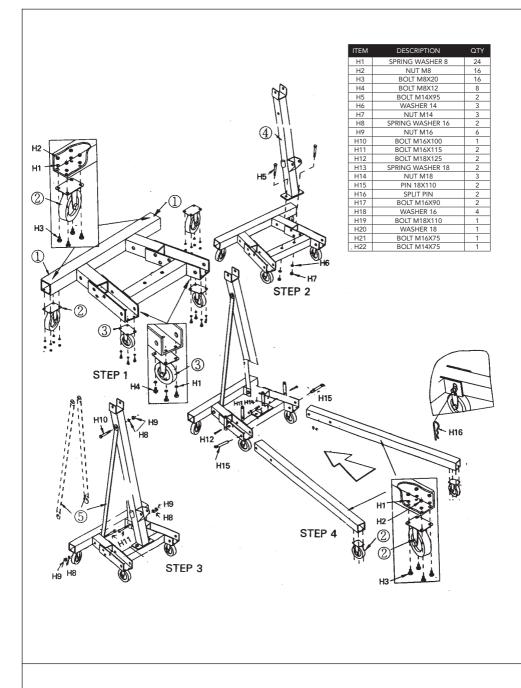
TO RAISE LOAD: Close release valve by turning handle clockwise to a snug-tight position. Do not over-tighten.

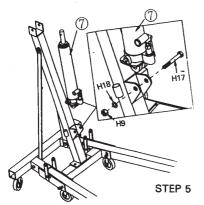
TO LOWER LOAD: Open release valve by turning handle counter-clockwise very slowly. The speed of the lowering is controlled by how much the handle is turned.

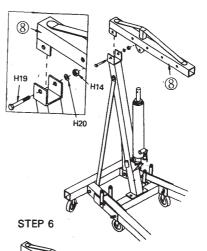
TROUBLE SHOOTING

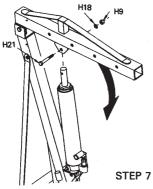
TROUBLE	PROBABLE CAUSE	REMEDY	
Will not hold load.	Dirt on valve seats.	 Lower lifting boom. Close the release valve and remove oil filler plug. Place one foot on the leg and pull up the lifting boom to its full height by hand. Open the release valve to lower the lifting boom. Replace worn seals. 	
Will not lift load. Will not lift to its full height. Pump feels unsteady under load. Pump will not lower completely.	Air block.	 Open the release valve and remove oil filler plug. 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 over- filled. Low hydraulic oil level.	Check the oil level. Remove the filler plug. Top up oil to correct level.	
Pump feels unsteady under load.	The cup seal could be worn out.	Replace cup seal.	
Will not lower completely.	Air block. Unit requires lubrication.	Release air from the hydraulic pump by removing filler plug. Oil external moving parts.	

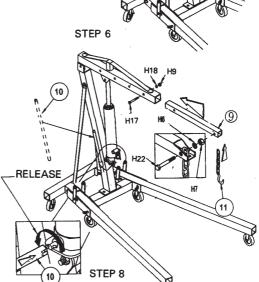


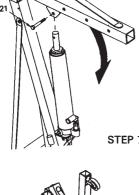












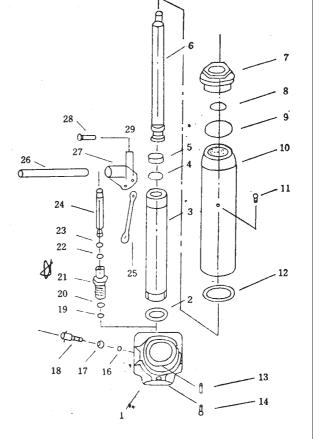
ITEM	DESCRIPTION	QTY
1	BASE	1
2	LARGE CASTER	4
3	SMALL CASTER	2
4	POST	1
5	SUPPORT	2
6	LEG	2
7	JACK	1
8	BOOM	1
9	EXTENSION	1
10	JACK HANDLE	1
11	CHAIN/HOOK	1



PAGE 5

STEP 9

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ITEM	DESCRIPTION	QTY
1	VALVE BLOCK	1
2	COPPER WASHER	1
3	CYLINDER	1
4	O-RING	1
5	O-RING RETAINER	1
6	RAM	1
7	TOP NUT	1
8	O-RING	1
9	SEALING GASKET	1
10	OIL TANK	1
11	OIL PLUG	1
12	SEAL RING	1
13	TUBE	1
14	BOLT	1
15	SCREW	2
16	BALL	1
17	SEAL RING	1
18	RELEASE SPINDLE	1
19	BALL	1
20	COPPER WASHER	1
21	PUMP CYLINDER	1
22	O-RING	1
23	BACK UP RING	1
24	PLUNGER	1
25	PUMP LINK	1
26	HANDLE	1
27	HANDLE SOCKET	1
28	SHAFT	2



FOR YOUR SAFETY PLEASE READ THESE INSTRUCTIONS CAREFULLY AND RETAIN THEM FOR FUTURE USE.





SGS Engineering (UK) Ltd West Side Park Raynesway Derby, DE21 7AZ

EC Declaration of Conformity			
This is an important document and should be retained			
MANUFACTURER'S NAME:	SGS Engineering (UK) Ltd		
TYPE OF EQUIPMENT:	Engine Crane		
PART NUMBER:	EC2000		
APPLICATION OF EC COUNCIL DIRECTIVES / STANDARD:			
EN 1494:2000+A1:2008 Mobile or movable jacks and associated lifting equipment EN ISO 12100:2010 Risk assessment & risk reduction EN ISO 13857:2008 Safety distances & hazard zone EN 349:1993+A1:2008 Minimum safety gaps 2006/42/EC Machinery Directive (MD)			
I, the undersigned, hereby declare that the equipment specified above conforms to the above European Communities Directive(s) and			

Standard(s).

PLACE: Derby, UK

DATE: 24th JUNE 2017

(Signature) Robert Wyatt Company Secretary