



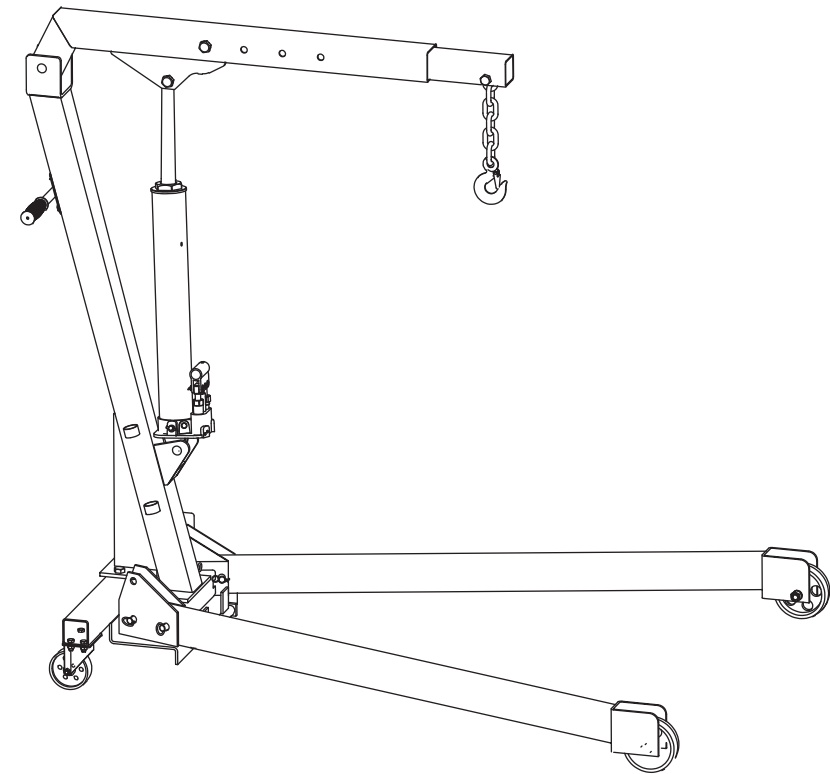
KEY No.	DESCRIPTION	QTY
01	Base	1
02	Left leg	1
03	Right leg	1
04	Lock pin	4
05	Split pin	4
06	Bolt M8x30	1
07	Nut M6	1
08	Main support post	1
09	Bolt M14x90	6
10	Nut and washer M14	6
11	Boom	1
12	Bolt M16x110	1
13	Washer M16	1
14	Nut M16	1

KEY No.	DESCRIPTION	QTY
15	Ram unit 3 ton	1
16	Bolt M16x90	1
17	Nut and washer M16	3
18	Bolt M16x60	3
19	Handle	1
20	Washer 8	12
21	Bolt M8x20	12
22	Boom extension	1
23	Bolt M14x75	1
24	Nut and washer M14	1
25	Jack handle	1
26	Chain & Hook	1
27	Castor & Fixing	2
28	Nut M8	8

Torin
BLACK JACK[®]

OWNER'S MANUAL
500KG ENGINE CRANE

Working Load Limit: 500kg
Height Lowered: 25mm
Height Raised: 2500mm



Torin
BLACK JACK[®]

FOR CUSTOMER SERVICE
1800 833 800

Imported by
SJS Investment Pty Ltd
Bayswater WA6053



WARNING

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

Never use the crane on an uneven floor surface as this could result in the crane tipping over.

Always lock the legs and boom 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.

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.	<ol style="list-style-type: none"> 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 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.	<ol style="list-style-type: none"> 1. Open the release valve and remove oil filler plug. 2. Pump handle a couple of full strokes and close the release valve. 3. Replace oil filler plug.
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.

PARTS LIST

