Instruction Sheet

SOUTHERN CROSS

Power Pumps - 1½ in. x 1¾ in. & 1¾ in. x 1¾ in.

Location: The pump should be located as near the source of supply as possible, but if sufficiently large suction piping is used the pump may be as much as 200 or 300 ft. away. However, the suction lift from the surface of the water being pumped to the centre line of the pump must not be more than 18 ft., including friction.

Foundation: The pump should be mounted on a level and firm foundation.

<u>Piping</u>: Run all piping in as direct a line as possible; avoid all unnecessary turns; see that all joints and connections are tight, and if the pump lines are long, use a
larger size pipe than that for which the pump is screwed.
This will reduce friction and so reduce the load on the pump.
Where a long pipe line is used for either the suction or
discharge, fit a union or flanges into line close to the pump
for ease of uncoupling the pump if it ever has to be moved.

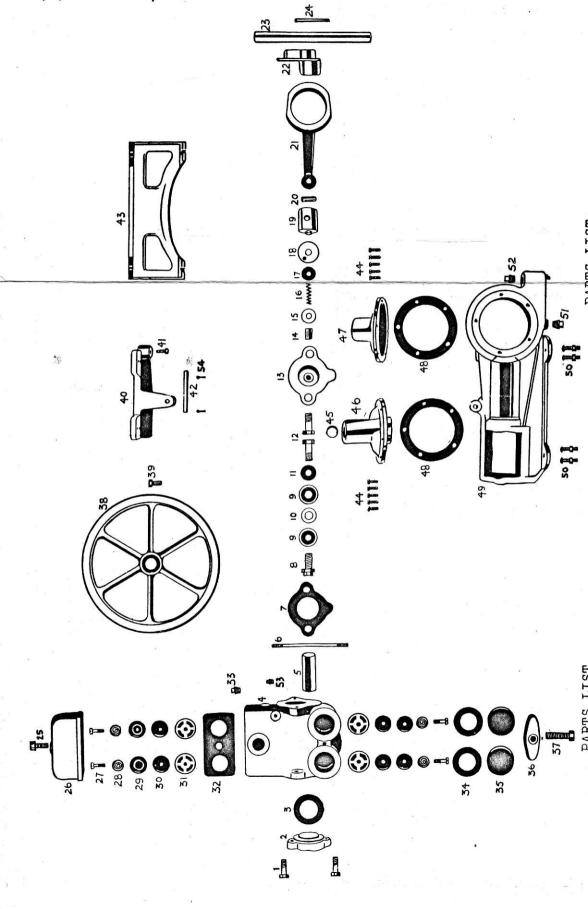
Suction Pipe: The suction pipe should never be smaller than the size of the suction screwing of the pump, and, if very long, it should always be larger. In laying the suction pipe a uniform grade should be maintained throughout to avoid air pockets, and, if possible, the pipe should have a drop of not less than 6 in. in every 100 ft. length towards the source of supply.

Check Valves: A check valve should be fitted at or near the pump in the discharge pipe to relieve the pump valves of the back pressure of water in the discharge pipe.

Also it will enable work to be carried out on the pump without the water draining back out of the discharge pipe.

Warning: Under no circumstances should a gate or globe valve be fitted in the discharge instead of a check valve, as the pump would be damaged if it was ever started with the gate valve or globe valve closed.

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		RTS LIST				RTS LIST		
Symbol	the same of the sa	Name of Part	20		l No.	Name	of	Par
1½"x 1¾"	1¾'' x 1¾			1½"x1¾"	1¾"x1¾"		1	0
	NV-A1	Cylinder Cover Bolt	•	NV-A9	NV-B9	Bucket Leather		
	NV-A2	Cylinder Cover		NV-A10	NV-B10	Spacer		
	NV-A3	Cylinder Cover Gasket		NV-A11	NV-A11	Bucket Leather	Nu	ŧ .
NV-A4	NV-B4	Cylinder		NV-A12	NV-A12	Cylinder Bolt	107000	
N V- A5	NV-B5	Cylinder Liner			NV-B13	Gland		
NV-A6	NV-B6	Piston Rod			NV-A14	Gland Sleeve		
NV-A7	NV-A7	Cylinder Gasket		NV-A15		Gland Nut		
NV-A8	NV-A8	Bucket Leather Bolt			NV-A16	Gland Packing		

PARTS LIST

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,	Symbo		Name of Par
	1½"x1¾"		
	NV-A17	NV-A17	Baffle Leather
	NV-A18	NV-A18	Oil Seal
	NV-A19	NV-A19	Piston
	NV-A20	NV-A20	Gudgeon Pin
	NV-A21	NV-A21	Eccentric Strap
	NV-A22	NV-A22	Eccentric Strap
	NV-A23	NV-A23	
	NV-A24	NV-A25	Main Shaft
			Tapered Pin
	NV-A25	NA-R52	Dome Bolt
	NV-A26	NV-B26	Dome
	NV-A27	NV-A27	Valve Rubber Screw
	NV-A28	NV-A28	Valve Spring
	NV-A29	NV-A29	Valve Washer
	NV-A30	NV-B30	Valve Rubber
	NV-A31	NV-B31	Valve Insert
	NV-A32	NV-A32	Dome Gasket
	NV-A33	NV-A33	Priming Plug
		111-1177	(½ in. B.S.P.)
	NV-A34	NV-A34	Valve Cover Gasket
		Contract of the second	
	NV-A35	NV-A35	Valve Cover
	NV-A36	NV-A36	Valve Cover Strap
	NV-A37	NV-A37	Valve Cover Bolt
	NV-A38	NV-A38	Flywheel
	NV-A39	NV-A39	Flywheel Screw
	NV-A40	NV-A40	Motor Base
	NV-A41	NV-A41	Motor Base Screw
	NV-A42	NV-A42	Motor Base Pin
	NV-A43	NV-A43	Pump Base
	NV-A44	NV-A44	Bearing Screw
		NV-A45	Oil Seal Plug
	NV-A46	NV-A46	Long Bearing
	NV-A47	NV-A47	
	NV-A48		Short Bearing
		NV -A48	Bearing Gasket
	NV-A49	NV-A49	Crankcase
	NV-A50	NV-A50	Crankcase Bolt
	NV-A51	NV-A51	Draining Plug
			(1/8 in. B.S.P.)
	NV-A52	NV-A52	Filler Plug
			(¼ in. B.S.P.)
	NV-A53	NV-A53	Snifter Plug
			(1/8 in. B.S.P.)
	NV-A54	NV-A54	Split Pin for
			Motor Base Pin
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