

ADR70XD-LPR POWER PACK (AIR)

USER GUIDE



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INTRODUCTION

The ADR70XD-LPR power pack is a portable, air actuated, double acting, "Xtra" pump with a low pressure return suitable for desert operation.

The Christie range of power packs are the toughest on the market, combining effortless power with supreme performance.

The unit is fitted with a "quiet air" silencer chamber to reduce noise output and remove the need for hearing protection. The air exhaust layout also acts as a temperature regulator in hot and cold climates.

The power pack is supplied complete with one control pendant / hose assembly and two hydraulic hose assemblies

The unit is operated using the two button control pendant.

SPECIFICATION

Air Consumption (In): 38-59 litres/second (80-125 cfm) Maximum Air Pressure (In): 6.2 bar (90 Psi) Maximum Hydraulic Pressure (Out):690 bar (10,000 psi) Pressure Gauge Units: psi and bar Flow Stage 1 (Out): 12 litres/minute (0.424 cfm) Flow Stage 2 (Out): 1.7 litres/minute (0.06 cfm) Oil Reservoir Capacity: 7 Litres (427.17 in³) Hydraulic Hoses Length: 4m Total Weight (Excluding Hoses): ~39 Kg (85.98 lb) Noise: Less than 85 dB(A)Hydraulic Port Size: 1/4" NPT

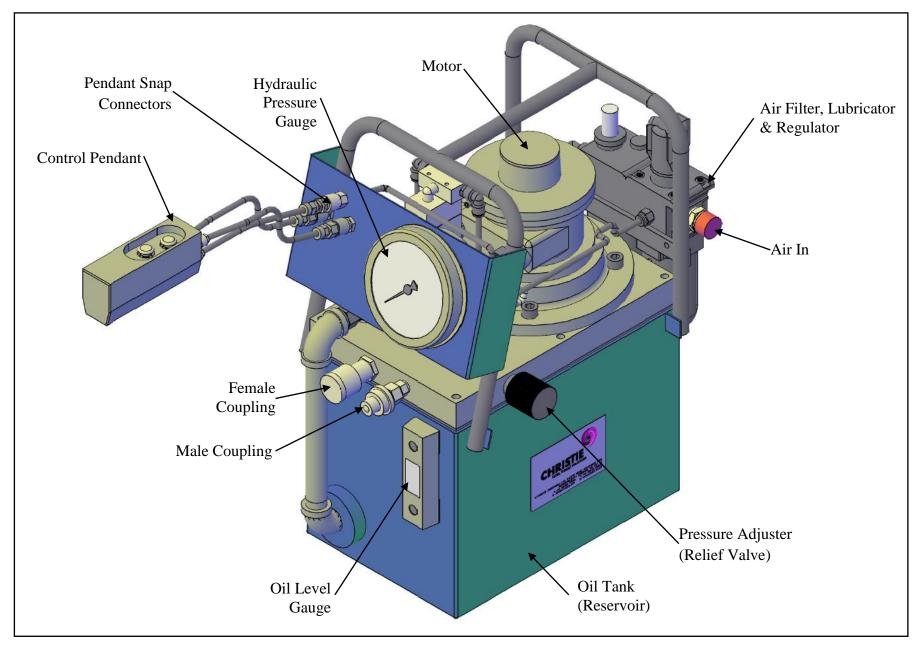
ACCESSORIES AVAILABLE

The following accessories are available upon request and can be custom made to suit requirements. Please contact W. Christie (Industrial) Limited for more information:-

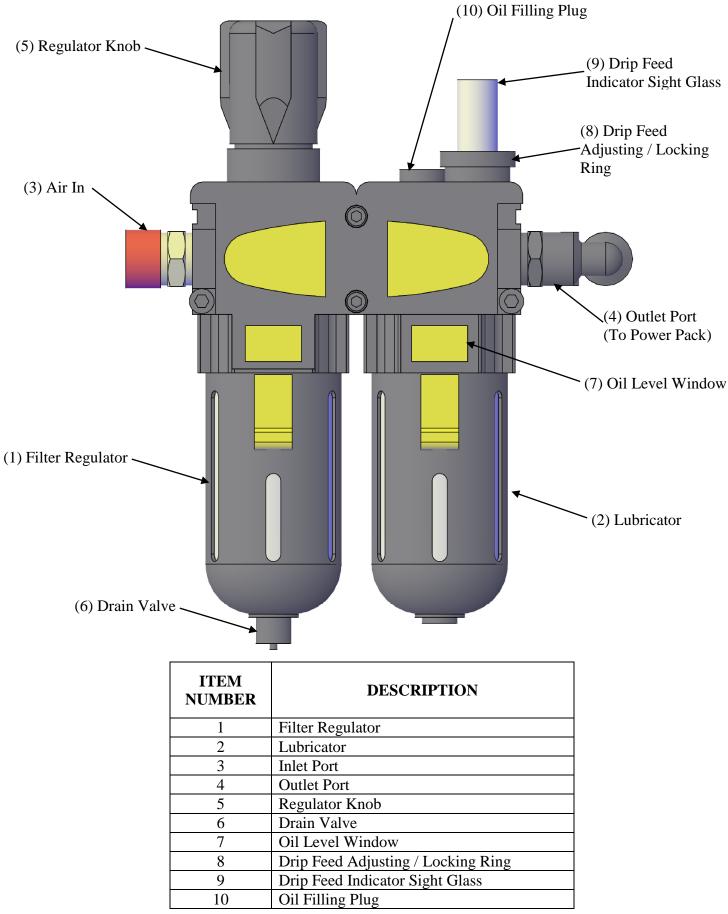
- Extra Length hoses
- Protective storage case
- Portable trolley



POWER PACK FEATURES



AIR FILTER, LUBRICATOR & REGULATOR FEATURES



AIR FILTER, LUBRICATOR & REGULATOR – PRE-CHECK

Important:-

This unit is used in a compressed air line. Correct safety precautions must be taken. Before filling or maintaining this assembly all compressed air should be exhausted first.

Before connecting your unit to an air supply first fill the lubricator with oil conforming to Tellus 32 or equivalent.

Oil Filling:-

Remove the oil plug assembly (10) using a 6mm Allen Key

Pour the specified oil into the lubricator, fill to maximum level as indicated on the oil level window (7), replace plug

Air Hose Connection:-

Connection of the air hose to the unit are made by a 1/2" BSP female thread, care should be taken when fitting mating pipes that a 22mm spanner is used to hold the fitting at the regulator end.

Setting The Air Pressure:-

On the ADR70XD-LPR Power pack the pressure has been pre set by W. Christie and should not be modified.

Draining Condensate:-

Prior to draining the condensate there must be no pressure in the unit. To remove condensate from the filter bowl press drain valve (6).

Note – Eye protection should be worn during this operation.

To Adjust Lubrication Flow:-

Oil flow is adjusted by rotation of the drip feed adjustment ring (8)

Lift the adjusting ring, turn it to adjust oil drop rate to suit the tool requirements. Turn clockwise to decrease flow, turn counter-clockwise to increase flow. Pushing the locking ring (8) down will lock the adjustment.

The flow rate can be viewed through the drip feed indicator sight glass (9)

For Christie tools we recommend 6 drops per minute.

POWER PACK - OPERATING INSTRUCTIONS

IMPORTANT: DO NOT OPERATE THIS TOOLING BEFORE THE OPERATING AND SAFETY INSTRUCTIONS ARE READ AND UNDERSTOOD.

IF BREAKDOWN, MALFUNCTION OR DAMAGE OCCURS <u>DO NOT</u> ATTEMP TO REPAIR, CONTACT W. CHRISTIE (INDUSTRIAL) LTD IMMEDIATELY.

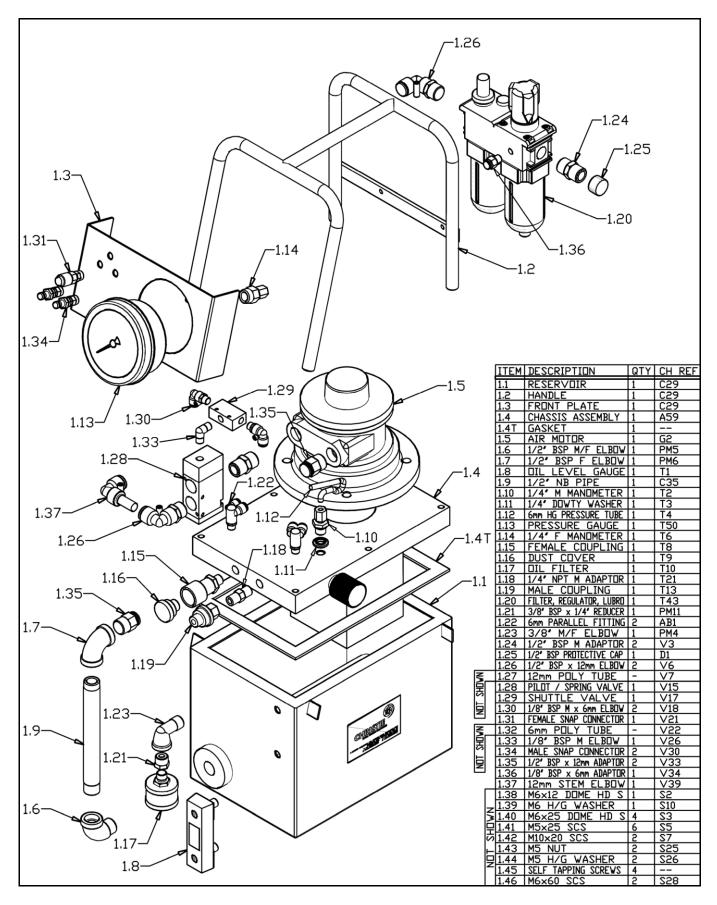
Before using the power pack (air) unit ensure:-

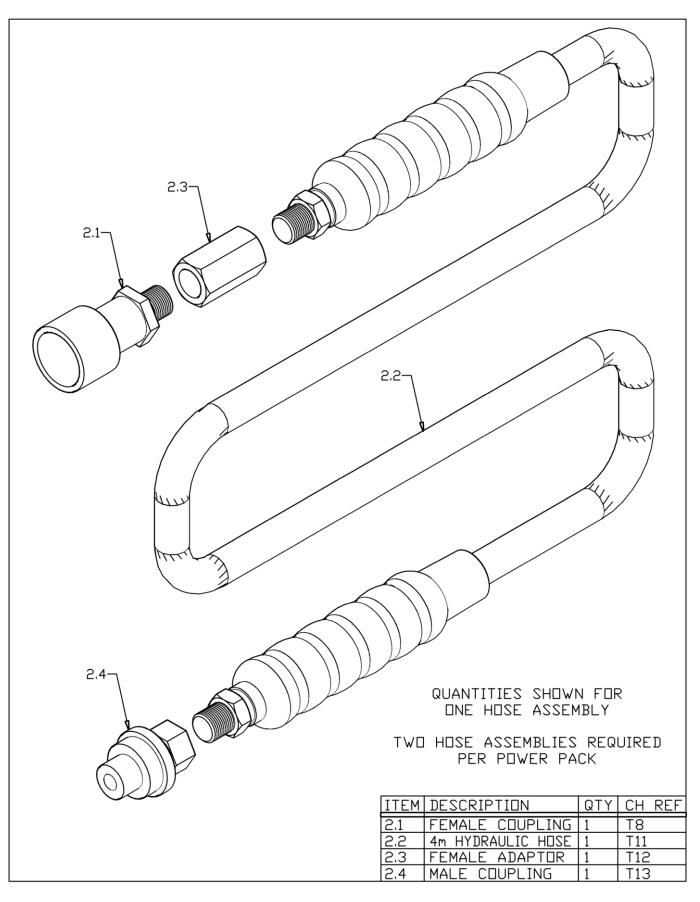
- **1.** The operating and safety instructions are read and understood.
- 2. The relief valve, located on the side of the unit is fully unwound (anti-clockwise)
- **3.** Tank is filled with oil (Tellus 32 or equivalent).
- 4. Ensure all Air Filter, Regulator & Lubricator Pre-Checks have been completed (see page 6)
- 5. Ensure air filter is free from water and contaminants.
- 6. Air supply in is correct (6.2 bar 90 Psi maximum).
- 7. Couplings are clean and fully engaged.
- 8. Secure compressed air hose to unit, thread size 1/2" BSP. To ensure performance is maintained, ideal hose diameter (1/2" or 12.7mm)
- 9. Connect hoses to the hydraulic tooling to be operated (see relevant operating instructions).
- **10.** Secure pendant snap connections, 2 plugs and 1 socket, Ensure these connections are fully engaged before switching on supply.
- 11. Turn on the air supply to the unit, if any leaks are detected correct before proceeding.
- 12. Depress one of the buttons on the hand pendant, the motor will start.
- **13.** Slowly rotate the relief valve, cylinder will extend.
- **Note:** If cylinder does not extend, depress the other pendant button. Hydraulic pressure will register on the gauge
- 14. Adjust the hydraulic pressure to the required setting using the relief valve on the outside of the unit.
- 15. With pressure set, the power pack is now ready for use.
- **Note:** This is a double acting pump unit, depressing the pendant control buttons will extend or retract a cylinder. Which button extends and which button retracts is dependant on hose orientation.

SAFETY

- **1.** The incorrect use of hydraulic equipment is dangerous. Ensure that personnel familiarise themselves with the operating instructions.
- 2. Operating personnel should be safely and correctly attired i.e. safety glasses, safety boots, industrial gloves and overalls.
- **3.** If more than one engineer is involved in the operation of torque machinery, good communication must be established to prevent accidents or misunderstandings.
- 4. Do not use air or hydraulic hoses to tow the power pack.
- 5. **NEVER** exceed the maximum working pressure of hydraulic equipment.
- **6.** Before use check pneumatic and hydraulic hoses are not cut, split, kinked or damaged. If in doubt do not use.
- 7. Do not hold the hoses when they are pressurised, especially on the swagings. Hose failure may lead to serious injury.
- 8. If any leaks are detected whilst the pump is in operation, stop using it immediately. Contact W. Christie (Industrial) Ltd for guidance.
- **9.** Take care not to stand on or run over hydraulic hoses or air lines. To minimise danger ensure that these lines are not run across walkways, ladders, roadways and doorways and that people likely to pass through the working area are aware of the danger.
- **10.** Maintenance guidelines should be strictly adhered to, poor equipment may lead to component failure and injury.
- **11. NEVER** pressurise a hose or cylinder leaving the coupling at the other end disconnected. If this coupling fails serious or fatal injury may result.
- **12.** The pump unit contains aluminium and magnesium; this makes it unsuitable for use in certain industries i.e. mining and petrochemical. For guidance contact W. Christie (Industrial) Ltd.
- **13.** A power pack should never be used without the motor silencer fitted, noise may cause damage to hearing.
- **14.** No work should be undertaken by personnel unfamiliar with the hydraulic system. In the event of the breakdown, contact W. Christie (Industrial) Ltd.

POWER PACK PARTS LIST





FAULT FINDING

FAULT	POSSIBLE CAUSE	SOLUTION
Motor will not run.	• No air supply to the Air Filter, Lubricator & Regulator	• Check air supply
	• Motor / air fault	• Contact W.Christie (Industrial) Ltd
Motor runs but no pressure visible on gauge.	Low oil level	• Top up
visiole on gauge.	• Relief valve backed off	• Adjust
	• Piston block defective	• Replace
	• Filter blocked	• Replace
	• Pump defective	• Replace
Motor runs but slow to reach pressure.	• Relief valve defective / backed off	• Clean / replace / adjust
	• Piston block defective	• Replace
	• Pump defective	• Replace
Pump runs but attached tool slow or no movement.	• Relief valve backed off / defective	• Clean / replace / adjust
	• Couplings not fully tightened	• Tighten Correctly
	• Defective coupling	• Replace
	• Defective tool	• Check tooling
Pump will only operate in one direction	Couplings not tightened fully / defective	• Tighten / replace
	• Solenoid / air fault	• Investigate
	• Solenoid valve defective	• Replace



E.C. DECLARATION OF CONFORMITY

MODEL COVERED: ADR70XD-LPR

DESCRIPTION:

Portable, Air Actuated, Double Acting Xtra Power Pack

We hereby declare that the following machinery complies with the essential health and safety requirements of the European Machinery Directive 2006/42/EC published on the 9th June 2006

W Christie (Industrial) Ltd, Meadowbank Road, Rotherham S61 2NF, United Kingdom.

This machinery has been designed and manufactured in accordance with the following transposed harmonised European Standard:-

BS EN ISO 12100-2:2003 Safety of Machinery – Technical Principles

SIGNED:

NAME: <u>R. G. Askham</u>

POSITION: Senior Applications Engineer

On behalf of W Christie (Industrial) Ltd





Hand Held Torque Tools





Site Assessment

Sockets & Ancillaries











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