

Standard Operating Procedure

Power Pack – LPP 36HA



Equipment Description

Multi-purpose electric start air-cooled diesel driven hydraulic 'Quiet' Power Pack with separate control stand. The LPP 36 is equipped with four point lifting rings and forklift channels. For safety reasons, the hydraulic power pack is equipped with an automatic shutdown system. If a malfunction should occur, the engine operation will be shutdown.

Technical Specification

	<u>Length</u>	<u>Width</u>	<u>Height</u>	<u>Mass</u>
Power Pack	1.63m	1.07m	1.35m	990kg
Remote Control Unit	0.45m	0.50m	1.0m	47kg

Hydraulic fittings: TEMA couplings
Power type: Diesel/Hydraulic
Hydraulic flow: 91 lpm
Hydraulic pressure: 200 bar

Health and Safety



To safely operate this equipment 2-4 people are required.

Safe Operating Requirements

- All personnel are to be trained in the use of the Pump – LPP36 power pack or under the close supervision of a trained operator.
- Job Safety Analysis (JSA) to be conducted prior to work commencing. Identification of the following safety factors are critical, but not limited to:
 - o Manual Handling,
 - o Slips/Trips/Falls,
 - o Vehicle/Vessel Movements,
 - o Pinch Points and Personnel
 - o Contamination/Decontamination.
- Ensure adequate Personal Protective Equipment (PPE) is worn – as detailed above.
 - o * Life jackets must be worn near water depending on operation.
- A communication plan must be decided upon to ensure clear and concise communication at all times
- Hydraulic unloaders should be used to depressurise hydraulic hoses when required.

- Only use appropriate and certified lifting equipment
- All incidents, accidents and near misses must be reported as per AMOSC HSSE Plan.

Operational Instructions

Emergency shutdown

In the event that an emergency shutdown is required, the following measures should be taken:

- Shut down power pack immediately where safe to do so.
- Return the hydraulic flow control to “off” position.
- Communicate according to the designated communications plan.

Pre-start checks

- Ensure that fuel and oil levels are checked on the power pack. Inspection doors are opened using the square key located on the control panel (see below)
- Connect battery to power pack, ensuring isolation switch is turned on after connecting.
- Check the hydraulic hoses for damage or wear.
- If used, ensure that all lifting equipment is in test date and in good working condition.

Assembly

- Position the Power Pack on a flat surface in range of the ancillary equipment to be used
- Connect the Power Pack to the Control Stand using the 4 supplied hydraulic hoses (Pressure/Return/Load Sense/Case Drain), using a sorbent pad to capture spilled hydraulic oil.
- Ensure the locking rings on the hydraulic fittings are locked in place.

Note - the Power Pack requires flow, return, load sense and case drain hydraulic hoses to complete the pump circuit. Failure to correctly connect all hoses may result in failure and extensive damage to the Power Pack/Control Stand.

- Ensure that the hydraulic controls on the Control Stand are in the “off/neutral” position



Main Power pack Controls



Control Stand Controls

Start-up

- Prior to starting the engine, conduct a final inspection of all assembled items, including a check that all hydraulic hoses are connected and all locking rings secured.
- Ensure that the emergency stop control on the power pack is not activated.
- Set the engine throttle at half speed
- Turn the ignition key half way to activate pre-heater
- When pre-heating light goes out, turn the ignition key further until the starter motor engages.
- When engine fires, release the key and adjust the throttle to fast idle

Operation

- Refer to the appropriate SOP for ancillary equipment being used together with the Lamor Power Pack

Caution

- Ensure the Power Pack is not running and all hydraulic hoses and the Control Stand are de-pressurised prior to connecting/disconnecting any ancillary equipment

Post operation

- After the Power Pack has been stopped, release all hydraulic pressure prior to the disconnection of the hydraulic hoses by manually moving the hydraulic levers on the Control Stand.
- Disconnect hydraulic hose connections and fit dust covers using a sorbent pad to capture spilled hydraulic oil.
- Check all fluid levels, topping up as required.

Additional Information

Maintenance

- All maintenance and repairs are to be completed in accordance with either the manufacturer or the AMOSC procedures.
- All equipment must be left in an operational condition when not in use.
- All defects must be repaired or the equipment is to be "tagged out" for maintenance and repair.

Related Documents

AMOSC HSSE Plan
PN08 - HSSE Policy
AMOSC JSA Template