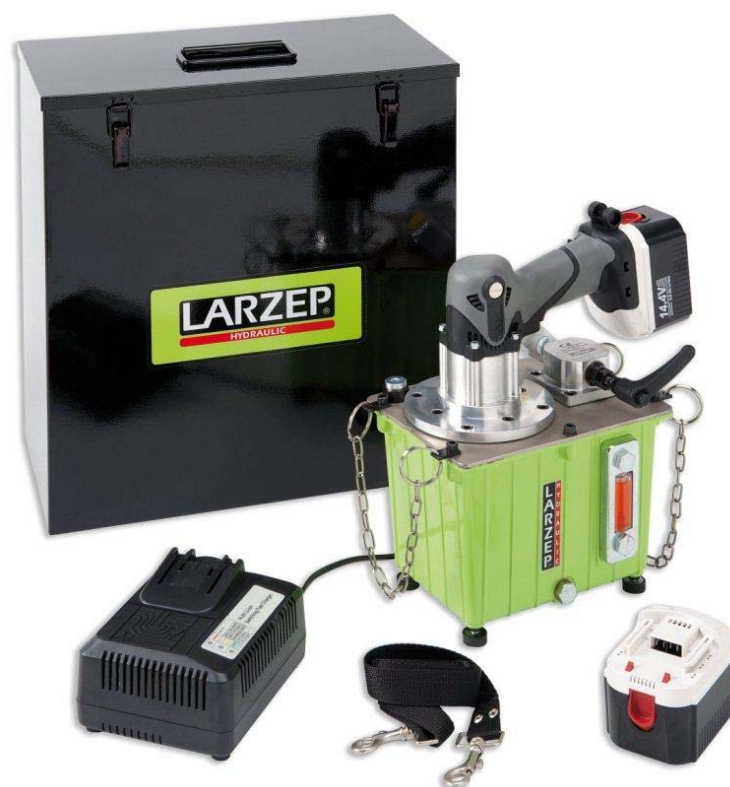




INSTRUCTIONS & MAINTENANCE SHEET

PORTABLE BATTERY HYDRAULIC POWERPACK HAB1101



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1. TECHNICAL CHARACTERISTICS

Maximum operating pressure:	700 bar
Flow rate at 700 bar:	0,16 l/min
Reservoir capacity:	3 litres
Usable oil:	2,4 litres
Dimensions:	220 x 170 x (H)300 mm
Weight with oil:	8,7 kg
Voltage / Frequency:	14.4 V
Battery:	3 0 Ah Li-Ion
Charging times:	40 min
ON/OFF switch:	With lockout
Noise level:	91,6 dBA
Vibration level:	9,5 m/s ²

The values measured were determined according to EN50144-2-1:1995.

RECEPTION

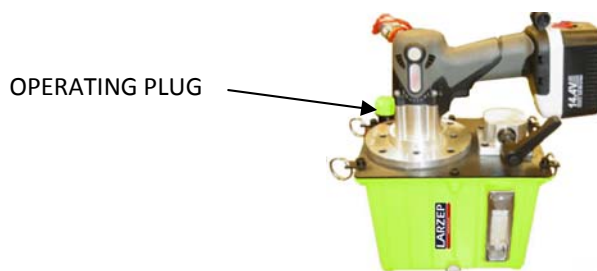
Visually inspect all the components to check for damage during transport. Should you observe any deterioration at all, please inform the transport company or tool distributor immediately.

DESCRIPTION

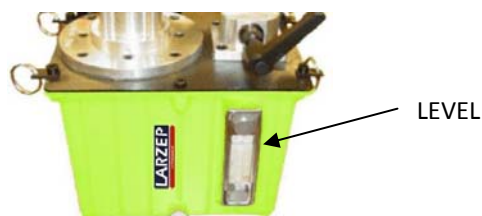
The HAB1101 mains-powered hydraulic unit is compact and lightweight and is therefore suitable for use as a portable hydraulic power distribution centre. It has been designed for use with any tool requiring an operating pressure of up to 700 bar (10.000 psi). The unit is supplied with a quick connector, and a metal carrying and storage box.

2. PREPARATION FOR START-UP

1. Unscrew the carrying plug and screw-on the operating plug.



2. Check that the oil level is correct.
3. Place the Release Valve lever in the "pressure" position.



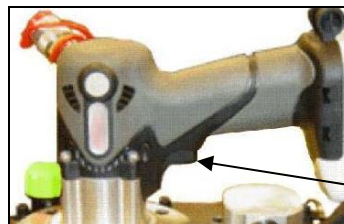
3. START UP

Before using the Mains-Operated Hydraulic Unit, ensure that you have read both the general safety instructions and the operating instructions.

1. Place the Release Valve lever in the "pressure" position.

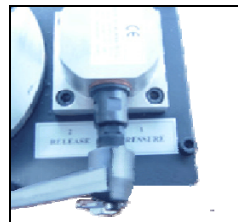


2. Press the push button.



PUSH BUTTON

3. Perform the work specific to the head or cylinder being used. Maximum working pressure 700 bar.
4. To depressurise, place the Release valve lever in the "release" position and the pressure is released automatically.



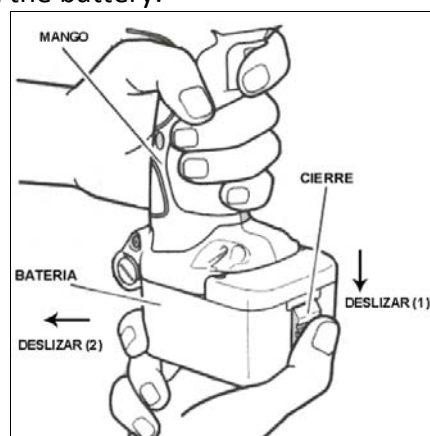
5. *The operation of the hydraulic unit can be stopped at any time by releasing the push button. The pressure is maintained until the Release valve lever is moved to the "release" position.*

4. BATTERY REMOVAL AND INSTALLATION

BATTERY REMOVAL

Hold the grip firmly and press the battery release button to remove it, as shown in the following figure.

CAUTION: Never short circuit the battery.



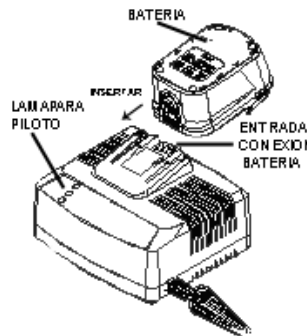
BATTERY INSTALLATION

Insert the battery ensuring that the poles are correct (see previous figures).

BATTERY CHARGING

Before using the tools, charge the battery as follows:

- **Plug the charger cable into an AC socket.** Once the charger plug has been connected to the mains, the red pilot light will light continuously.
- **Insert the battery in the charger.** Firmly insert the battery, in the direction indicated in the following figure, until it comes into contact with the charger compartment bottom.



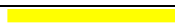
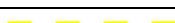
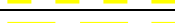
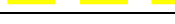



CAUTION: If the battery is inserted the wrong way round, apart from not charging this could also damage the charger, such as the deformation of the charging terminal.

- **Charging.** When the battery is inserted into the charger, it will start to charge and the red pilot light will be on continuously. Once the battery is completely charged, the green pilot light will flash (at one second intervals). See the following table.

CAUTION: If the red pilot lamp flickers, unplug the plug from the power outlet and check if the battery is inserted correctly.

FAST CHARGER INDICATIONS

RED		Power On.	The charger is On.
		Battery - Faulty.	Malfunction of the battery.
YELLOW		Battery - Faulty.	Incorrect battery model.
		Battery in High Temperature.	The battery temperature is high Let cool down it.
		Battery in Low Temperature.	Charge the battery above 0°C.
GREEN		Fast Charging.	Battery is being charged properly.
		Fully Charged.	Battery charging complete. Remove the battery from the charger and unplug the charger from the mains.

CAUTION

If any of the following occurs, unplug the charger from the power supply outlet and replace the battery pack:

- None of the indicators lights on anyhow.
- The red indicator light flickers constantly.
- Only the red indicator light is on even if the battery pack is installed.

CAUTION

Do not pull the plug out of the receptacle by pulling on the cord. Make sure to grasp the plug when removing from receptacle to avoid damaging cord.

How to make the batteries perform longer

- Recharge the batteries before they become completely exhausted. When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.
- Avoid recharging at high temperatures. A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

CAUTION

- When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of the failures. Once the charging has been completed, give 15 minutes rest until the next charging.
- If the battery is recharged when it is warm due to battery use or exposure to sunlight, the pilot lamp may light in green. The battery will not be recharged. In such a case, let the battery cool before charging.
- When the pilot lamp flickers rapidly in red (at 0.2– second intervals), check for and take out any foreign objects in the charger's battery installation hole. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

5. CARE AND MAINTENANCE

Before working on the unit, disconnect the plug from the mains.

CLEANING

A proper cleaning after each use, particularly of the moving parts, will help extending the life of the tool. Dust, sand, environmental conditions, in particular those that are subjected to high salinity, and dirt in general, are a serious danger to all hydraulic tools.

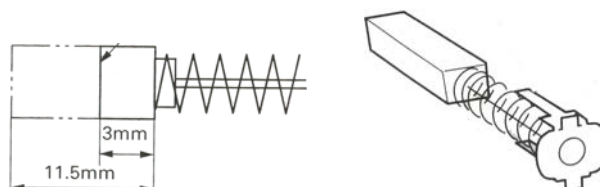
The pistons must be clean because the impurities could scratch the cylinder wall and damage the seals. To clean the piston correctly, it is advisable to advance the piston and clean it with a quality solvent, non-corrosive.

ON/OFF SWITCH

Check that the switch is automatically released when you stop pressing it. If an anomaly is detected, replace the switch immediately.

BRUSHES

Regularly check the brushes for wear and ensure that they remain in perfect contact with the armature. Replace the brushes when their length has been reduced by 1/3 of the original length.

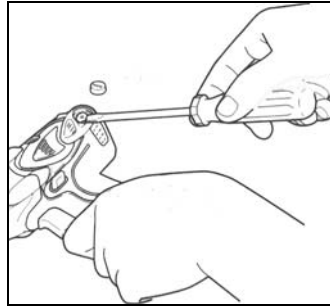


- Disassembly:

Loosen the three screws on the unit handle cover and remove the handle cover. Remove the stopper screw in order to remove the holder plate which keeps the carbon brush holder in place.

Lift out the brush holder together with the carbon brushes. Take great care not to forcibly pull the lead wires within the brush holders.

Pull the brush connection terminal and remove the contact brush from the brush holder.



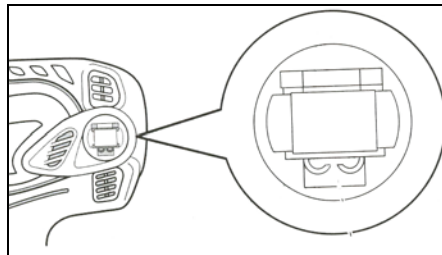
- Assembly:

Place the new carbon brush in the brush holder and connect the terminal to the carbon brush.

Return the brush holder and other parts to their original positions. Press the holder plate into position, securing it with the stopper screw.

Place the lead wire in the specified position. Take particular care not to let the lead wire contact the armature or rotating parts of the motor.

Replace the handle cover, taking care to ensure that it does not pinch the lead wire and secure it firmly with the three screws.



- CAUTION

Ensure that the lead wire is pinched by the handle cover or come into contact with the armature or rotating parts of the motor, the operator will be in serious danger of receiving an electric shock. Be extremely careful when disassembling and re-assembling the motor and follow the procedure set out above exactly.

MOTOR AND ARMATURE

Ensure that every 100 hours any carbon dust is removed from the motor and brush housing. The motor armature must remain permanently clean and its surface must be uniform (light bronze in colour).

RESERVOIR OIL LEVEL

Ensure that the oil level is always above the black line on the viewer. **Do not fill the reservoir with non-compatible oil or brake fluid.** Oil type: VESTA HLP-15 by VERKOL or similar type. Remove the reservoir cap and add oil up to the marked level. Previously, the oil must be filtered. If necessary, any quantities required can be supplied from our factory.

STORAGE

To avoid damage in the tool caused by impacts, dust, etc., is recommended to store it in a case or storage/carry box.

WARNINGS

The punches must be threaded on the stud along all its length in order to avoid the breaking of the screw or the thread.

The working position of the tool, for its correct functioning should be the natural, with the handle down.

6. FAULT DIAGNOSTICS

Before performing any work on the tool, ensure that it is disconnected from the mains.

ATTENTION! If any maintenance that is not detailed below is required, please consult the nearest Service Centre.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The tool does not advance, advances slowly or intermittently.	Oil level is low.	Add oil following the instructions given above.
	Release valve open.	Close the Release valve.
	Loose quick connections.	Check connections.
	Too load.	Do not try to operate above the rated load.
	Air in the system.	Bleed the circuit, keeping the pump higher than the tool and operating it several times without increasing the pressure.
	Cylinder plunger jammed.	Check the cylinder for damage. Ask a mechanic specialising in hydraulic systems to repair it.
The tool advances but does not hold the pressure.	Leak at the connections.	Check that all connections are tighten and that there are no leaks.
	Internal pump leak.	Repair the pump by a mechanic specialising in hydraulic systems.
The tool does not retract, partially retracts or takes longer than usual to retract.	Valve closed.	Open the Release valve.
	Pump reservoir too full.	Empty the oil until it reaches the max line shown on the viewer.
	Loose connection.	Check connections.
	Air in the system.	Bleed the circuit as indicated above.
	Hose int. Ø is too narrow.	Use a hose with a larger diameter that supports an operating pressure of 700 bar.
	Damaged cylinder spring or other damage to the cylinder.	Repair the pump by a mechanic specialising in hydraulic systems.
The motor does not work.	Damaged mains power cord.	Change the power cord.
	Worn brushes.	Replace the carbon brushes, as indicated above.

- Change always both batteries at the same time. Do not mix used and new batteries.
- Do not scrap the batteries with normal waste and do not throw them in the fire.
- Keep batteries out of reach of children.
- Use the batteries correctly, according to the instructions and specifications provided with the batteries.

DECLARACION DE CONFORMIDAD

E

LARZEP, S.A.
Dirección: Avda. Urtiaga, 6
48269 Mallabia ESPAÑA

Declaramos bajo nuestra exclusiva responsabilidad la conformidad de los productos a los que refiere esta declaración, con las disposiciones de la directiva:
2006/42/CE

DECLARATION OF CONFORMITY

F

Nous, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration sont conformes aux dispositions des Directives:
2006/42/EC

DECLARAÇÃO DE CONFORMIDADE

P

Nós, LARZEP, S.A.
Endereço: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Declaramos, sob nossa única responsabilidade, que os seguintes produtos, incluídos nesta declaração estão em conformidade com o disposto na Directiva:
2006/42/EC

ÖVERENSSTEMMELSESERKLÆRING

DK

Vi, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som er omfattet af denne erklæringen, er i overensstemmelse med bestemmelserne i Direktiv:
2006/42/EC

ERKLÆRINGOM OVERENSSTEMMELSE

N

Vi, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som dekkes af denne erklæringen, er i overensstemmelse med bestemmelserne i Direktiv:
2006/42/EC

ÜBEREINSTIMMUNGSERKLÄRUNG

D

Wir, LARZEP, S.A.
Anschrift: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklären auf eigene Verantwortung, daß folgende Produkte, auf die sich diese Erklärung bezieht, mit den Bedingungen der Direktiven, 2006/42/EC Übereinstimmen.

Tipo, Type, Typ, Tyypki.

SM / SH / SP / SMP / SPR / SX / SMX / ST / STR / STX / SL / SAM / SAH / SAT / SATM /
SSR / T / TE / TD / D / DH / DDR / DAH / DDA / DM / DI / JM / JH / JP / Z / ZR / W / WP / X
/ HAM / HAE / HAZ / HAG / HAS / HFM / HFE / HAP / HAT / HAB / WI / CK / CC / CN /
FU / FV / FZ / FA / CY / AA / AU / CT / C / KC / LAS / LAX

A / AB / AC / B / AF / F / HN / HL / DLG / VA / VB / VC / VZ / ECE / ECM / ECZ / EE / EM /
EZ / CA / CS

AZ / AP / AR / AV / AS / AT / AX / AY / AM

Mallabia, ESPAÑA 2009 / 12 / 29

Lugar y fecha, place and date, lieu et date, plats och datum, paikka ja päivämäärä, udstedelsessted og-dato, ort und datum, plaats en datum, local e data, luogo e data.

DECLARATION OF CONFORMITY

GB

We, LARZEP, S.A.
Address: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Declare under our sole responsibility that the following products to which this declaration relates conform with the provisions of Directives:
2006/42/EC

DICHIARAZIONE DI CONFORMITÀ

I

Noi, LARZEP, S.A.
Indirizzo: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Dichiariamo sotto la nostra esclusiva responsabilità che i prodotti ai quali questa dichiarazione si riferisce sono conformi quanto previsto dalle Direttive:
2006/42/EC

VAATIMUSTEMUKAISUUSVAKUUTUS.

FIN

Me, LARZEP, S.A.
Osoite: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Vakuutamme yksinomaan omalla vastuullamme, että seuraavat tuotteet, joihin tämä vakuutus liittyy, ovat seuraavien Direktiivien vaatimusten mukaisia:
2006/42/EC

VERKLARINGVAN OVEREENKOMST.

NL

Wij, LARZEP, S.A.
Adres: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Verklaren geheel onder eigen verantwoordelijkheid dat de volgende producten, waarop deze verklaring heeft in overeenstemming zijn met de bepalingen van Richtlijn:
2006/42/EC

FÖRSÄKRAN OM ÖVERESSTÄMMELSE

S

Vi, LARZEP, S.A.
Adress: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Försäkrar under eget ansvar att följande produkter som omfattas av denna försäkran är i överensstämmelse med villkoren i Direktiv:
2006/42/EC

LARZEP, S.A.

Nombre y firma, name and signature, nom et signature, namn och underskrift, nimi ja nimikirjoitus, navn og underskrift, name und underskrift, naam en handtekening, nome e assinatura, nome e firma.