

# PRESSURE SETTING PROCEDURE FOR ECO-RICH EHU2507-40-N-903



Items you need to set up your Eco-Rich:



Adjustable Spanner  
Flat Head Screwdriver



The following steps must be completed before any settings and adjustments can be made to your

## Eco-Rich EHU2507-40-N-903

- ◆ Connect 3-phase power
- ◆ Fill oil reservoir to correct oil level
- ◆ Connect pressure and return lines
- ◆ Connect alarm wires from machine (if required)
- ◆ Power must be on to the machine and hydraulic unit.
- ◆ Machine must be in a standby state (not actuating any valves or cylinders)

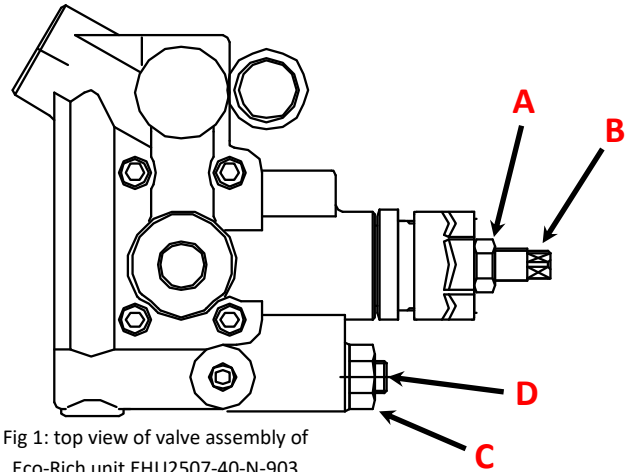






Fig 1: top view of valve assembly of Eco-Rich unit EHU2507-40-N-903

## Close/shut off the relief valve (A & B)

Undo locknut (A) with an adjustable spanner, you **MUST** ensure this is sufficiently undone so the adjusting screw (B) can be fully screwed in (clockwise) to shut off the relief valve. Care should be taken when screwing adjustment valve (B) in because there is a delicate and spring loaded plunger at the end of the adjusting screw.

## Select required machine system pressure parameter



Press and hold the   keys together until the screen flashes.



This is the parameter mode and it will flash showing "P00", press  until you get to "P13", then press the  key, this is the pressure setting parameter.

## Setting the desired pressure




You will now see "PL.0" on the screen. Press  again and now you can adjust pressure.

Press  or  key and set the pressure (range is between 1.5MPa-7.0MPa).


Following the adjustment of the pressure, press the  key. This returns you to the screen showing "P00", now press the  key. You will now see "QL.0" on the screen.

Press  until you see "P13" on the screen again. Press  and the screen should now show your desired pressure setting.

## Select the system monitoring parameter for the motor RPM

Press and hold  key until "N00" flashes on the screen (this is the monitor mode). To scroll through the "N" parameters you need to press the  or  key.

## Setting the RPM of the motor

While in monitor mode, scroll through the parameters to "N05" and press the  key. You will now see your motor's RPM represented by a 2 or 3 digit number on the screen.

### If the screen shows 67 it means 670RPM, if it says 122 it means 1220RPM

Use the adjustable spanner to release locknut **(C)**. Now use your flat head screwdriver to adjust the flow control valve **(D)**. Slowly turn the flow control valve **(D)** clockwise until the motor's RPM on the control panel shows 38 (which is 380 RPM). Your RPM is now set, carefully lock locknut **(C)** down, whilst ensuring the RPM does not change.


## Setting the relief valve

(Make sure the "N05" monitor parameter is showing on the control panel).

Take your adjustable spanner and turn the relief valve **(B)** anti-clockwise until you see the motor's RPM start to increase above your setting of 38 (380 RPM). Once the RPM starts to change, stop turning. Now turn the relief valve clockwise to the point the RPM of the motor started to increase. At this point you want to turn the relief valve **(B)** 3/4 of a turn (revolution) clockwise. Now lock locknut **(B)**.

**Note:** If the relief valve adjustment **(B)** bottoms out before you can turn the adjustment the required 3/4 of a turn, work out the amount it did turn, then half it. That is the amount you need to turn the relief valve **(B)** from the motor's RPM point of increase. If it remains bottomed out, the relief valve will not work. Now lock locknut **(A)**.

## Final checks

- ◆ Check the system pressure setting ("P00") is correct
- ◆ Check the monitor mode parameter setting ("N05") is correct
- ◆ Double check the locknuts are tight
- ◆ Press the  key, that should return you to the pressure setting screen on the control panel



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