



# JONELHYDRAULICS

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## SETTING UP LCD SCREEN

Our Electric ZU4T Pumps are normally set in **Manual** mode as standard for purpose of **HIRE** Setting-up Pressure is carried out via main **User Adjusted Valve** and LCD/Gauge - Adjust Main Valve to set max pump pressure -

### Our ZU4T Series Torque Pumps include 3 pre-set modes

Default Start-up and **Manual Mode** - See Screen 1.

Plug pump in to suitable power source and allow booting – 5 second LCD will display “as Default” **0 PSI** or **BAR** (as in Screen 1)

WE recommend leaving setting to read in PSI

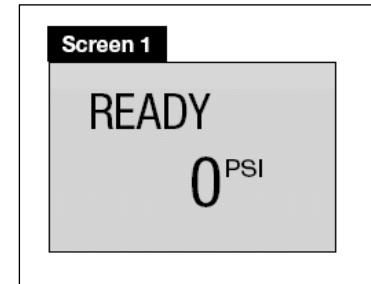
Should job require **BAR** for **Nm Torque** settings, follow this procedure

Push **MENU** button once

Using **MENU** button push again until **UNITS** is displayed (as in Screen 2)

Using up and down arrows choose **BAR**, then hold **MENU** button for 2-3 seconds

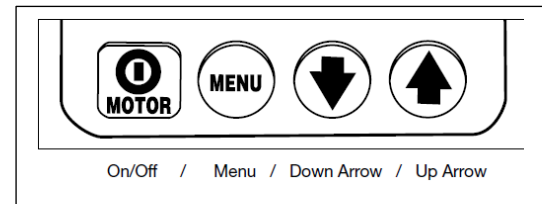
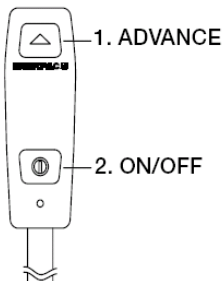
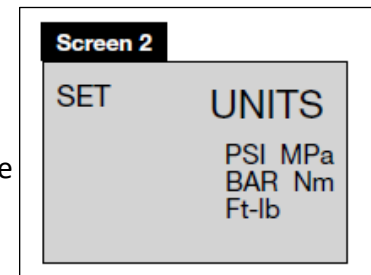
Screen will display **READY (0 BAR)**



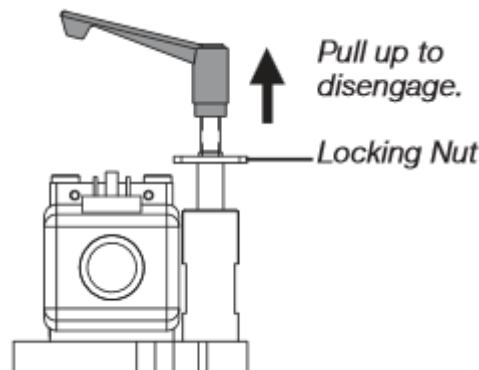
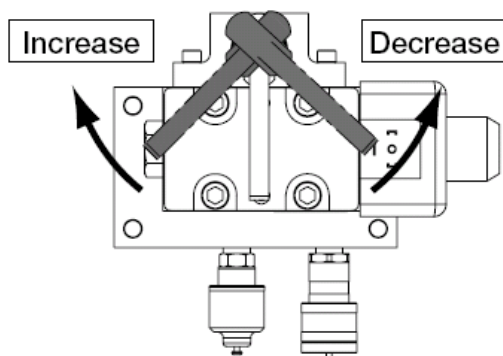
To set Pump Pressure for required **FT.Lbs** or **Nm** via Tools **Force Chart**

Push **on/off** button once on control pendant to start pump motor

Push **advance** button on control pendant to operate pump and set pressure



While holding **Advance** button down slowly turn/adjust **USER Pressure Control Valve** until LCD and or Gauge displays required **PSI** or **BAR** relative to Torque Wrenches Chart and Torque Tools required setting

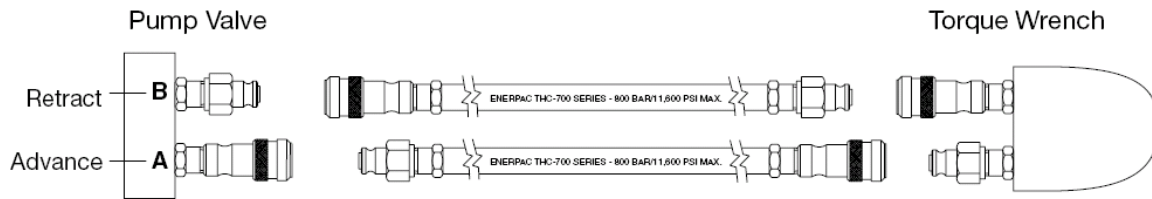


Pump is now set and ready for manual operation

**N.B. MENU = ENTER**

## To fit Hoses and Torque Tool

Once torque setting is set, remove QRC Coupler safety covers plug in hoses on pump and torque tool and tighten QRC Couplers firmly by hand – as in illustration below



### **Safety Warning**

This equipment may be dangerous if used by inexperienced persons, or if used outside OEM published guidelines, we recommend reading included operator manual

**PERSONS OR HIRER – YOU ARE RESPONSIBLE FOR SAFETY AND CARE OF THIS EQUIPMENT, IT IS RECOMMEND ALL REQUIRED PPE IS WORN DURNING PRODUCTS USE**

When finished using equipment please ensure it is secured in such a manner as to prevent unauthorised use, please also arrange return to Jonel Hydraulics Ltd  
PH 0800 566 357



# Automode Function and Pre-set Torque Value

The purpose of **Automode** and these screens is to allow the operator to set the advance port pressure at which the torque wrench will auto-cycle.

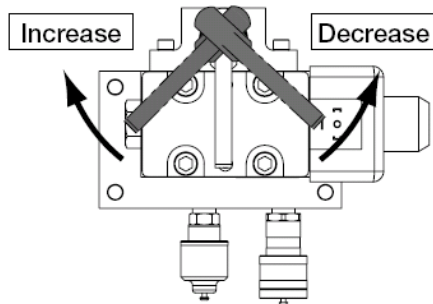
By setting Pump to Automode mode will increase Torque Tool Cycle times and reduce overall time to loosen or tighten bolts

Make changes in increments of 50 psi [3.5 bar] by pressing either Down or Up Arrow button once on LCD.

Press and hold either Down or UP Arrow buttons to scroll quickly through the available settings.

**Note;** When using Automode function ensure **USER Pressure Control Valve** is screwed right in (do not screw down tight or apply levers to tighten)

USER Pressure Control Valve



Setting up LCD and USER Controlled Main Valve for **Automode operation**  
Our Electric ZU4T Pumps are normally set in **Manual** mode as standard for purpose of **HIRE**

Default Start-up and **Manual Mode** - See Screen 1.

Plug pump in to suitable power source and allow booting – 5 second  
LCD will display “as Default” 0 PSI or BAR (as in Screen 1)

Should **Standard Automode Mode** be preferred follow these procedures

Using MENU button push once until “UNITS” is displayed (as in Screen 2)

Using up and down arrows choose **BAR, PSI or MPa**

Push MENU button once to display AUTOMODE – “ON” (as in Screen 3)

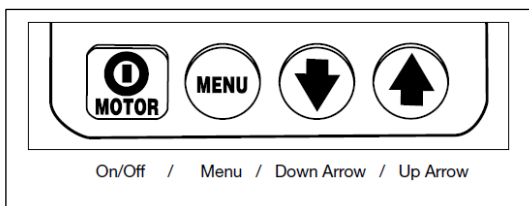
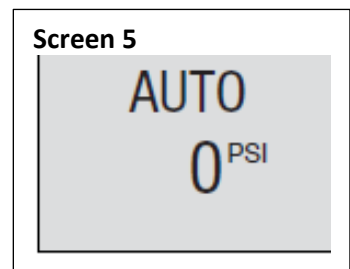
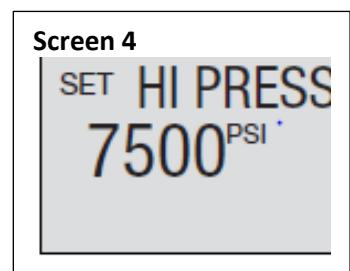
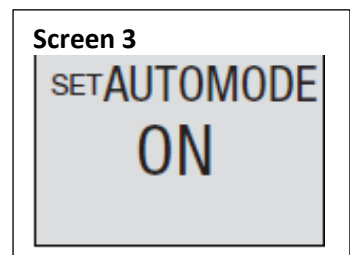
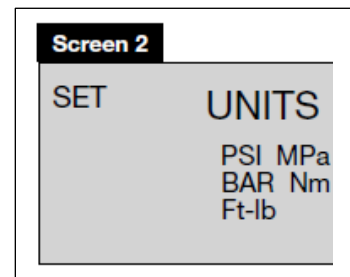
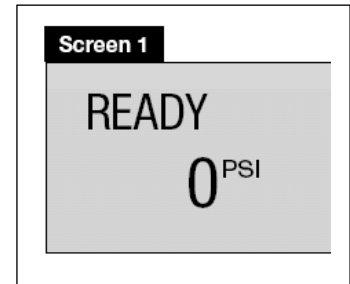
Should Automode display be “OFF” using Arrow buttons to ensure is “ON”

Push MENU button once to display “SET” PSI, BAR or MPa

Using arrow UP/Down buttons to set required Torque Force relative to Torque Tool’s Force Chart in **BAR, PSI or MPa** (as in Screen 4)

Hold MENU button for 2-3 seconds

LCD will display **AUTO “0”** PSI, BAR or MPa (as in Screen 5)



The purpose of Automode and these screens is to allow the operator to set the advance port pressure plus select Torque Tool at which the torque wrench will auto-cycle.

**Connect Hoses and Torque Tool as in illustration above (page 2)**

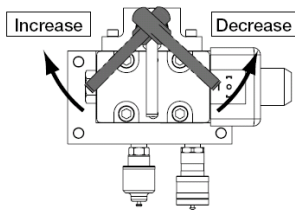
# Automode Function with Pre-set Torque Tool Selection

By setting Pump to Automode mode will increase Torque Tool Cycle times and reduce overall time to loosen or tighten bolts

Make changes in increments in Ft.Lbs and Nm by pressing either Down or Up Arrow button once on LCD. Press and hold either Down or UP Arrow buttons to scroll quickly through the available settings.

**Note;** When using Automode function ensure **USER Pressure Control Valve** is screwed right in (do not screw down tight or apply levers to tighten)

## USER Pressure Control Valve



Setting up LCD and USER Controlled Main Valve for **Automode operation**  
Our Electric ZU4T Pumps are normally set in **Manual** mode as standard for purpose of **HIRE**

Default Start-up and **Manual Mode** - See Screen 1.

Plug pump in to suitable power source and allow booting – 5 second  
LCD will display “as Default” 0 PSI or BAR (as in Screen 1)

**Should Full Automode Mode** with Tool Selection be preferred, Please follow **these procedures**

Using MENU button push once until “**UNITS**” is displayed

Using up and down arrows buttons choose **Ft.Lb or Nm** (as in Screen 2)

Push MENU button once to display “**SET**” (Tool Type) default will be entered previously (as in Screen 3)

Using arrow UP/Down buttons to set required Tool Type **I.E W4000, S3000**

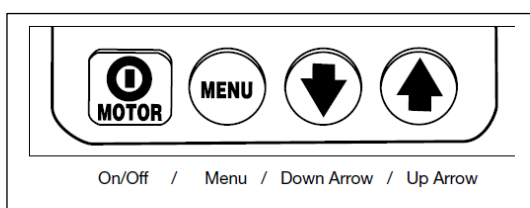
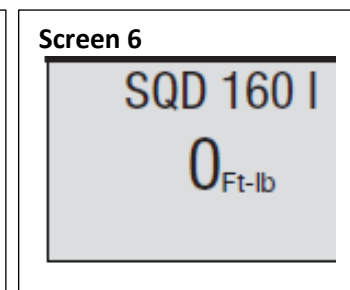
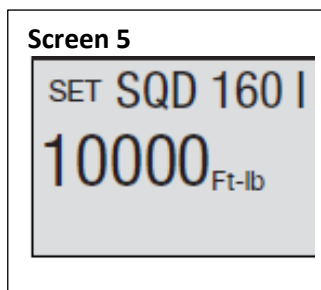
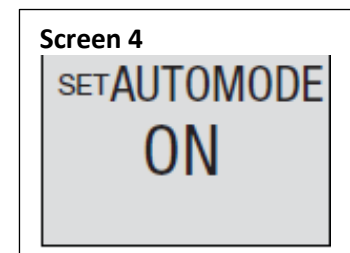
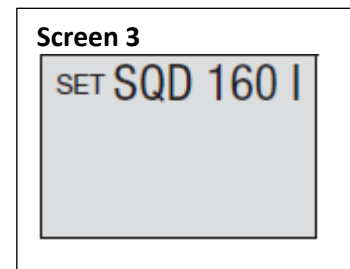
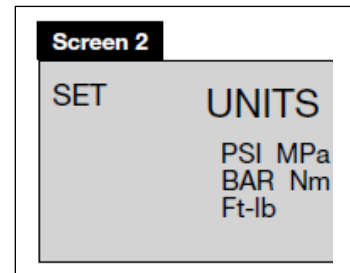
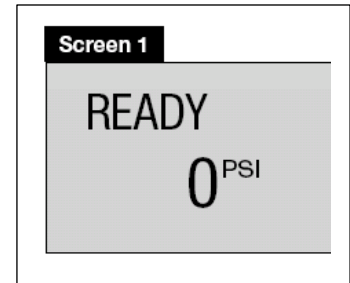
Should Automode display show “**OFF**” using Arrow buttons ensure is “**ON**” (as in Screen 4)

Using arrow UP/Down buttons to set required Torque Tool Force in Ft.Lb or Nm (defaults to Tools Max range) (as in Screen 5) Set down to required

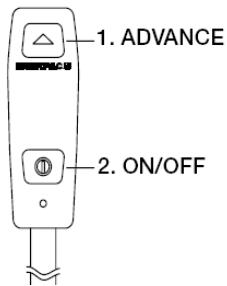
Push and hold MENU button for 2-3 seconds to set  
LCD will **Flash** programmed Tool type and “**0**”

Ft.Lb or Nm (as in Screen 6)

While operating Tool LCD will Flash Hi-Press  
(displaying pressure/force)



**N.B. MENU = ENTER**



Place Torque Tool on Bolt, ensure is correct size and reaction point has been made

Push **on/off** button once on control pendant to start pump motor

Push **advance** button on control pendant to operate pump and tool, hold down advance button until required Torque force is reached (Nut stops turning)

### Start-up

Plug pump in to suitable power source and allow booting – 5 second

LCD will display “as Default” **0** PSI or BAR (as in Screen 1)

### **Full Auto Mode example**

Pre-set Pump for use with our Enerpac W series Low Profile Torque Cassette or S Series Sq drive

Using MENU & Arrow buttons

1. Push Menu once until “**UNITS**” is displayed (set via UP/Down arrow buttons)
2. User select - up and down arrows buttons choose **Ft.Lb or Nm**
3. Push MENU button again
4. User select - “**SET**” (choose/select W4000) via UP/Down arrow buttons
5. Push MENU button again
6. User select Automode “**ON**” (set via UP/Down arrow buttons)
7. Push MENU button again
8. User select - up and down arrows buttons to the target **Ft.Lb or Nm**
9. Push MENU button again – hold down for 2-3 seconds
10. Display will Flash Tool type and is ready

**For S3000 Tool** – select No 4, S3000 Tool and follow same procedure to set Torque Force required

### **N.B. MENU = ENTER**

DO NOT PLACE HANDS or FINGERS, Tools Housing, Wood or any other material that may or will interfere with Tools operation between Reaction Point and Bolt, Flange etc

Before work starts we recommend; **Read and understand bolting procedures supplied by company responsible for contract and work been undertaken**

This manual/document is for the purpose of basic setting up procedures to Pump only

**Please see full manual for more details and safety information**



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