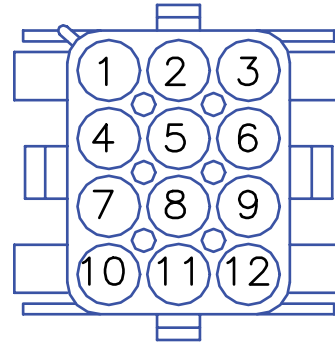


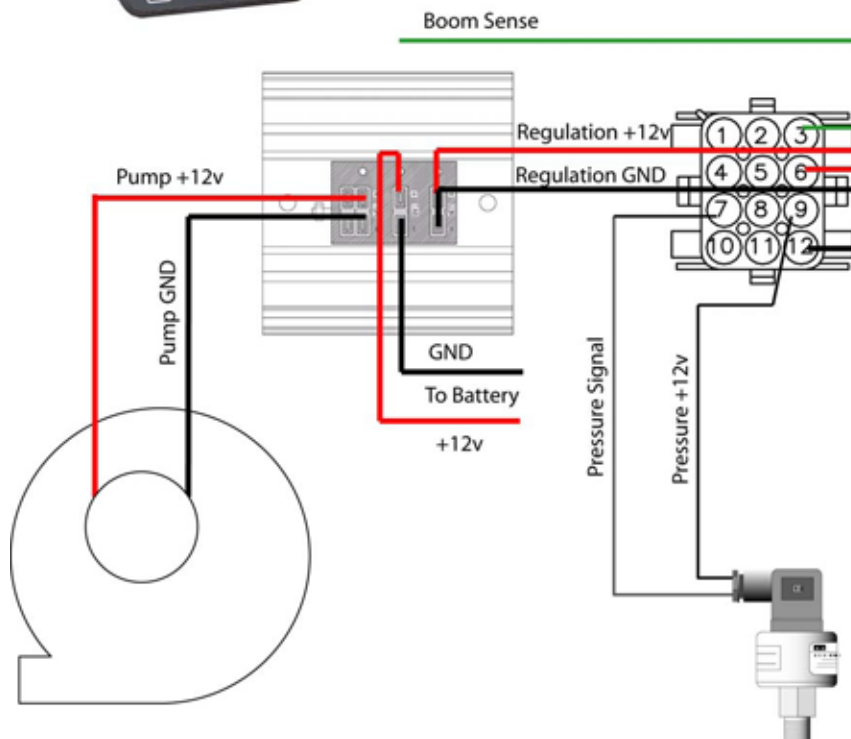
# 70 SERIES EPC - MANUAL PUMP

## Connections Table

Contact	Color	Description
1		
2		
3	Green	Boom Sense input (+12v = work)
4		
5		
6	Red	Regulation output +12v
7	White	Pressure Signal
8		
9	Black	+12v Pressure Sensor
10		
11	Black	Regulation output -GND
12		

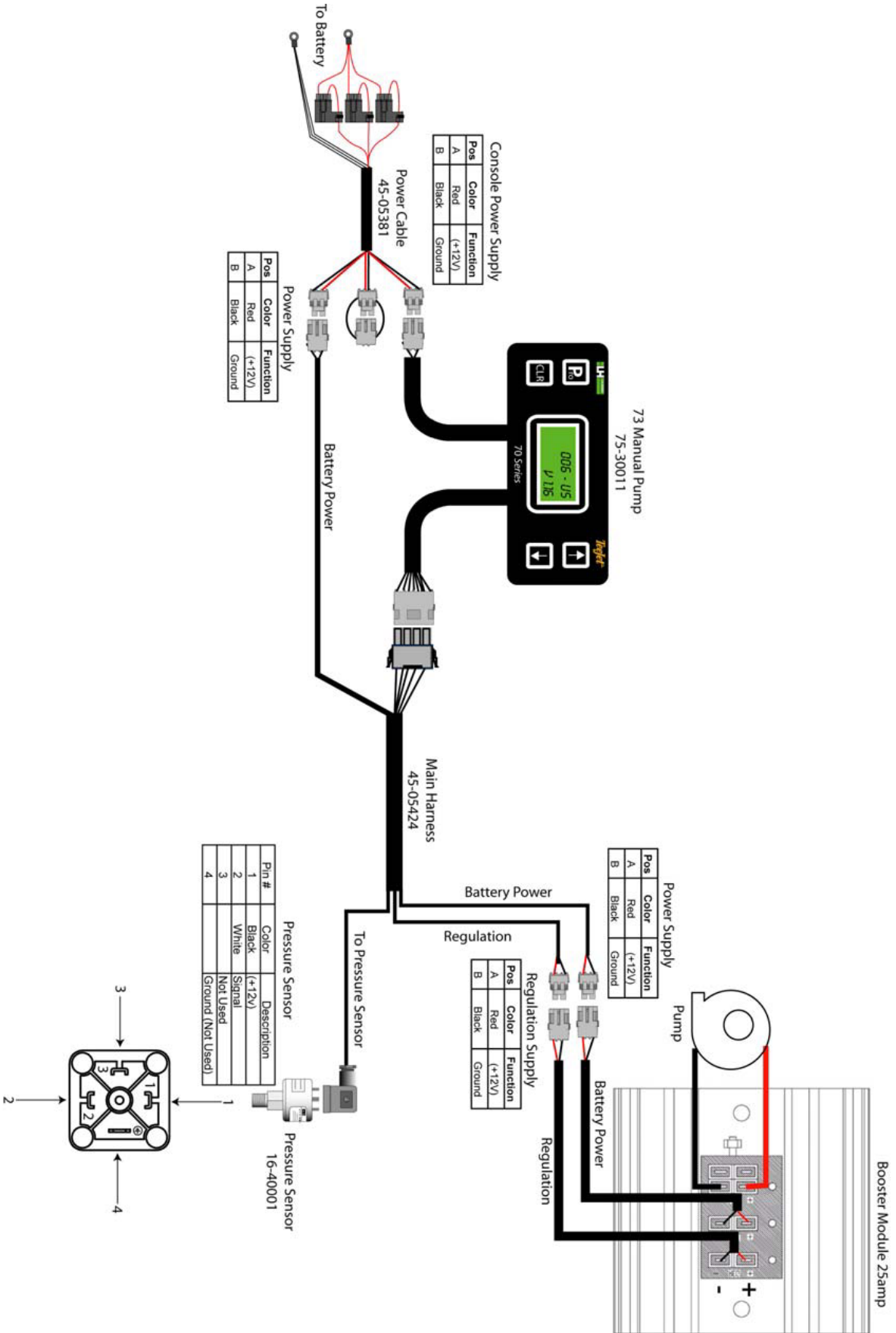


## Assembly

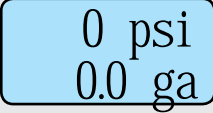
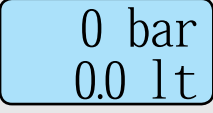


# USER GUIDE

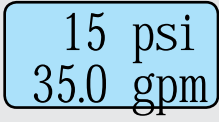
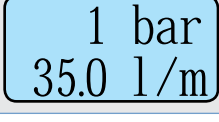
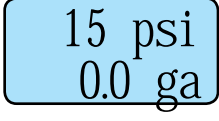
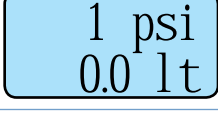
## System Overview



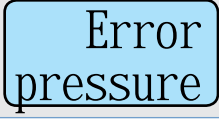
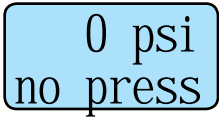
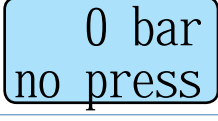
## Generality

Function	Key	Description
1. Power on	(Pro)	The unit will power on and show the first working screen  
2. Power off	↑ and ↓	The unit will power off
3. Selection of working screen	↑ or ↓	The first line on display show dose rate Second line is user selectable
4. Master Pump ON/OFF	(Pro) ON/OFF	If Boom Sense in NOT used (Pro) can be used to turn the pump ON/OFF

## Functionality

Function	Display	Possible Actions	Comments
1. Pressure Flow When Master is ON	 	↑ to increase pump (pressure) RPM ↓ to decrease pump (pressure) RPM	Upper line : Actual pressure Lower line : Actual Flow rate
2. Pressure Flow When Master is OFF	 	(CLR) for 3 second to reset second line.	Upper line : Actual pressure Lower line : Accumulated volume or Total Volume

## Alarms

Function	Display	Possible Actions	Comments
1. No Pressure Signal		(CLR) to disable alarm.	Alarm message will appear on the second line indicating that no pressure signal is received; Check pressure sensor for damaged or bad connection.
2. No Pressure in system	 	(CLR) to disable alarm.	Alarm message will appear on the second line indicating that there is no pressure in the system. Tank could be empty or pump could be stopped.

## Program

Function	Display	Possible Actions	Comments
Access or Exit		Push <b>Pro</b> for 3 seconds	Master must be off
1. Nozzle	nozzle setup	↓ to select another step <b>Pro</b> to enter nozzle setup (see 1.1) Push <b>Pro</b> for 3 seconds to escape program	
1.1 Nozzle Setup	Iso 04 0.40 g/m Iso 04 1.31 l/m	↑↓ to select a nozzle <b>Pro</b> to validate selected nozzle If a programmable nozzle is needed, push <b>Pro</b> to programmable nozzle value (see 1.2).	
1.2 Programmable Nozzle Value	* 40 psi 1.43 g/m * 2 bar 1.12 l/m	↑↓ to modify gal/min value <b>Pro</b> to validate value	US Units: Enter nozzle rating in gallons / minute @ 40PSI Metric Units: Enter nozzle rating in liters / minute @ 2Bar
2. Pressure Sensor	Pressure setup	↑↓ to select another step <b>Pro</b> to enter calibration (2.1) Push <b>Pro</b> for 3 seconds to escape program	Maximum pressure allowed by the sensor.
2.1 Zero PSI Calibration	Max prs 150 psi Max prs 10 bar	↑↓ to modify max pressure value <b>Pro</b> to validate max pressure and go to the zero PSI calibration (2.2)	Max pressure rating for the sensor can be found on the sensor or by contacting your 70 series monitor distributor.
2.2 Auto Calibration	Calibr. At 0 psi Calibr. At 0 bar	<b>Pro</b> for auto calibration of the pressure sensor at zero PSI	<b>!!! Be sure there is no pressure in the system !!!</b>
2.3 Pressure Drop Compensation	Delta pr 5	↑↓ to modify value <b>Pro</b> to validate value	This value is used to compensate the pressure drop between pressure measurement point and nozzle. If not needed, set it to 0. The higher the value, the higher the compensation.



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