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LIQUIP INTERNATIONAL PTY LIMITED - ENGINEERING DEPARTMENT - 13 HUME RD SMITHFIELD SYDNEY NSW AUSTRALIA 2164
PH: +61 2 9725 9000 FAX: +61 2 9609 4739 EMAIL: engineering@liquip-nsw.com.au

P7345

DIPTRONIC ELECTRICAL INSTALLATION & COMMISSIONING CHECKLIST

Issue: G
28/4/2010

DATE	ISSUE	DETAILS
13/03/03	A	Release. LAS
01/05/04	B	General update. NH
26/04/06	C	Replaced NPF with EPC, removed neg to GND for power, new issue fig1. Cosmetic updates. NH
08/01/07	D	Simplified entire document. Created single page fax. NH
01/06/07	E	Update DWG X351406-B, X351506-B, X350206-C
29/11/07	F	Simplified entire document. ML
28/4/2010	G	Torque for blank plug was 20-25Nm, drawing referenced was X350206, power filters referenced were NPF101 & EPC200, in cab fuse was rated 3.15A. AS



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1. Purpose

The purpose of this document is to ensure all the requirements of installing the Diptronic measuring system are met. All mechanical items are assumed to be installed correctly and securely bolted to their mounting points.

The person overseeing all work and performing the checks must complete this checklist for every individual Diptronic installation.

Return to Liquip upon completion. **Note: warranty may be void if this checklist is not returned.**



Warning:

Prior to any welding being carried out on a tanker the following points must be disconnected:

1. All MIL-spec connectors located on both sides of CPU. Ensure connectors are returned to appropriate points following welding.
2. Power supply from the CPU from the nearest junction box.

Failure to do so may permanently damage the sensors and CPU.

Refer Diptronic installation manuals for installation instructions including wiring diagrams.



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2. Diptronic Installation and Commissioning Checklist Prior to Calibration – **FAX THIS COMPLETED PAGE TO LIQUIP INTERNATIONAL on (02) 9725 1252**

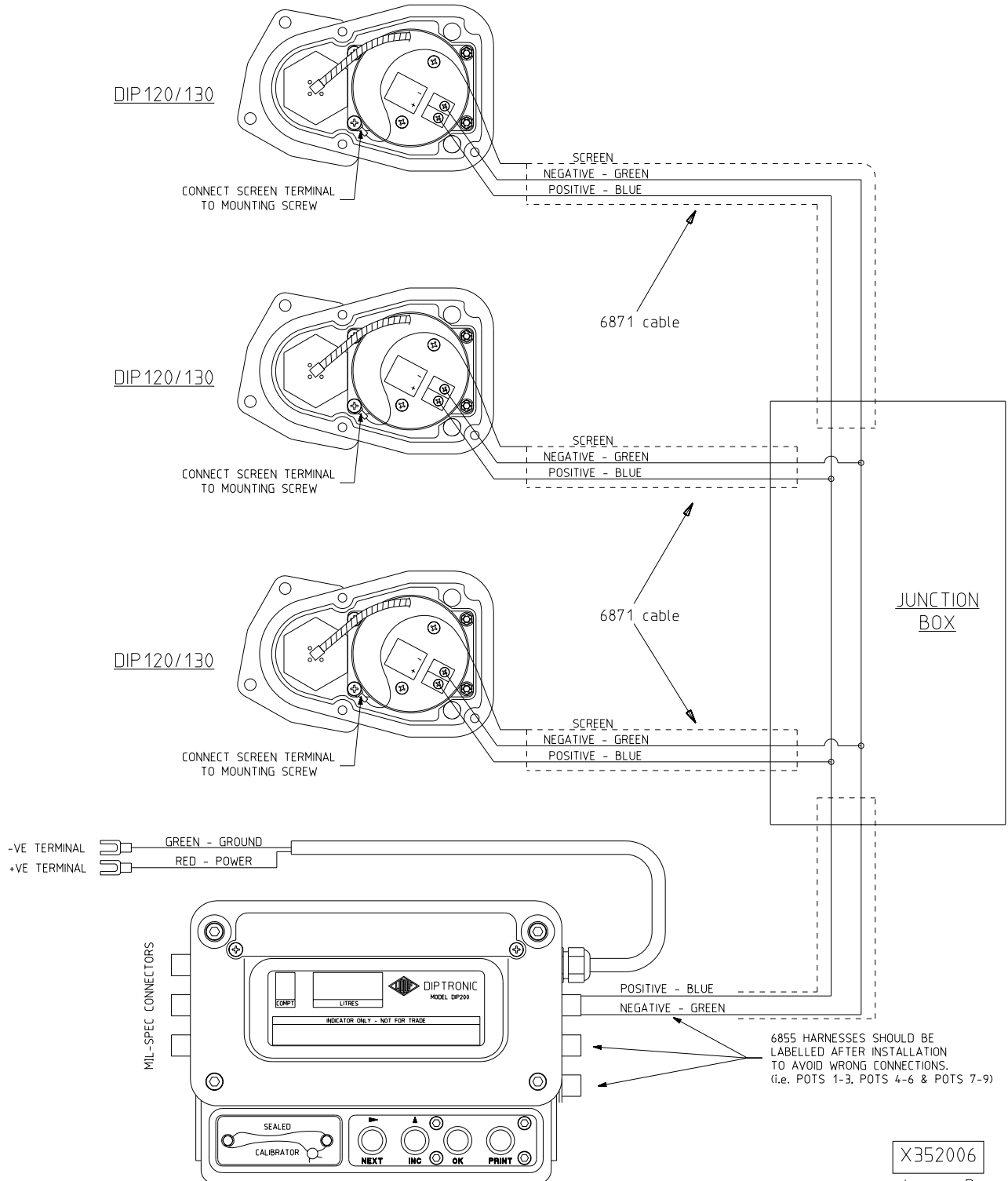
CPU Serial Number:					
Number of Sensors:					
	ID	Serial no.			
Sensor Serial Numbers:	1		4		7
	2		5		8
	3		6		9
Truck Number:					
Truck Rego:					
Installer(s) Company Name:					
Installer(s) Name:					
Description			Checked	Initial & date	
Liquip approved cable used for power connection to CPU. Use Liquip cable 6930 – 12-core, shielded, 17AWG.			<input type="checkbox"/> ✓ ✗		
Power to CPU directly from DCC100 power filter. Red (power) & green (ground).			<input type="checkbox"/> ✓ ✗		
Power supply connection to CPU fused in cab via 5A fuse.			<input type="checkbox"/> ✓ ✗		
All junction box entries sealed to prevent water entry. Lids tightened, grommets in glands, glands tightened (dome nuts to 3Nm – or spanner tight if no torque wrench).			<input type="checkbox"/> ✓ ✗		
Power & sensor communication runs through separate cables and junction boxes.			<input type="checkbox"/> ✓ ✗		
Each sensor is located in the volumetric centre of the compartment.			<input type="checkbox"/> ✓ ✗		
Screen drain wire to each sensor is crimped via eye terminal & connected to mounting screw at one end only. Follow drawing X352006 & fig 1 following.			<input type="checkbox"/> ✓ ✗		
All exposed screen drain wire is electrically isolated using heat shrink.			<input type="checkbox"/> ✓ ✗		
Correct wiring used for Power Connection of CPU.			<input type="checkbox"/> ✓ ✗		
All communication cable extensions made using Exe Terminals or crimp butt-splice type.			<input type="checkbox"/> ✓ ✗		
6930 cables between trailers are long enough to allow for adequate swing. Wind together with existing cables and cable tie firmly in place.			<input type="checkbox"/> ✓ ✗		
All sensor communications terminal screws are tightened. Blue (positive) & green (negative).			<input type="checkbox"/> ✓ ✗		
All sensors wired as per drawing X352006 – gland dome nuts tightened to 3Nm (or spanner tight if no torque wrench).			<input type="checkbox"/> ✓ ✗		
Correct choice of crimp terminals for wire diameter into terminal block of each sensor.			<input type="checkbox"/> ✓ ✗		
Unused entry ports suitably blocked to each sensor. Use Liquip blanking plug only – DIP100-22. Tighten to 12Nm (or spanner tight if no torque wrench).			<input type="checkbox"/> ✓ ✗		
Each sensor lid fitted with no strain to any part of sensor assembly – lid must not rock on top of pot.			<input type="checkbox"/> ✓ ✗		
Each sensor lid has gasket 6085 fitted.			<input type="checkbox"/> ✓ ✗		
Each sensor lid bolted securely on all four (4) screws. All tightened evenly to 4-5Nm (or spanner tight if no torque wrench).			<input type="checkbox"/> ✓ ✗		

Originally fitted by Liquip. These checks only required for servicing.



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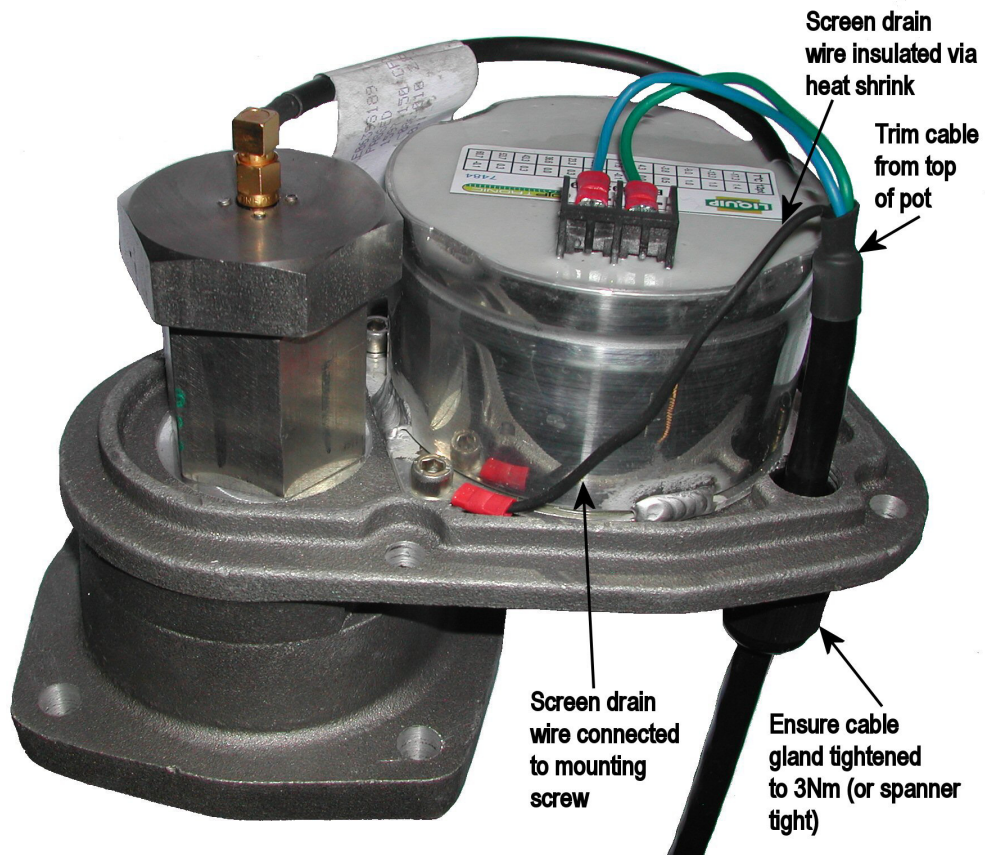


Fig 1 – DIP130-12 wiring

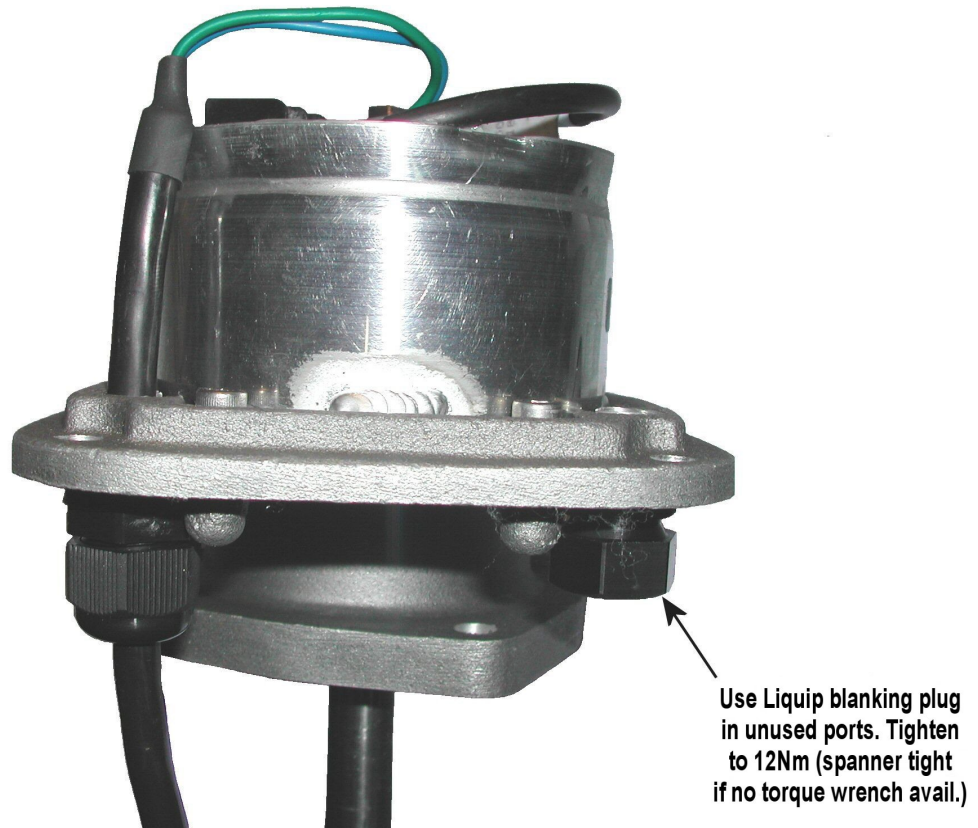


Fig 2 – DIP130-12 blanking plug