



PORTABLE PROHUB CCS CABINET CONNECTIONS

2026 Models Onwards

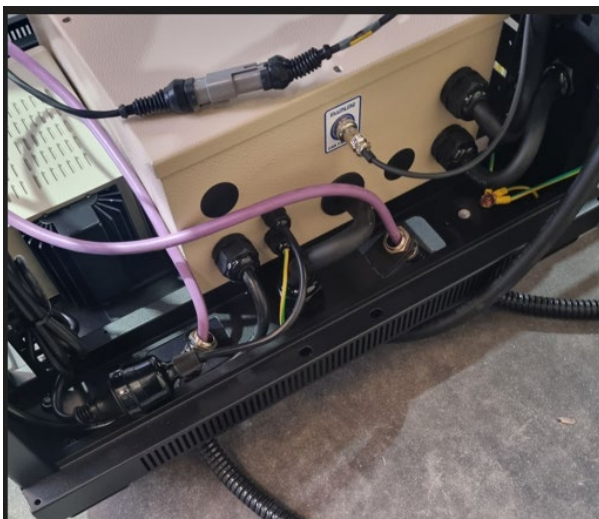
The Cabinet is packed with many internal connections already in place. The Boom arm, Boom Arm Module, Monitor Bracket/s and Monitors need to be fitted during assembly of the cabinet.

CCS Dynamometer Modules to Cabinet Connections

The modules are marked **REAR LEFT** and **REAR RIGHT** (2WD Models) in reference to the vehicle position when mounted to the dynamometer.

A unit with the AWD Ready option will also have FRONT LEFT and FRONT RIGHT connections on the opposite side of the cabinet, as well a Vehicle Cooling Fan power socket.

The larger harnesses coming from the dynamometer modules are plugged in to the side of the cabinet that will be marked REAR LEFT and REAR RIGHT accordingly.



The purple CAN harnesses can be threaded through the bottom of the cabinet and secured with the conduit retaining brackets located as shown in the image to the left.

Tip: For **US models only**, there is a 110V power cable inside the cabinet that can be passed down and out through the aperture at the bottom of the cabinet **before** fitting the purple CAN harnesses.



CAN Harness Connections (Purple Cables)

The purple CAN cables from bottom of the cabinet and connected to the CAN hub mounted on the inside shelf of the cabinet – Marked 1 & 2

Ensure you push the connections in and **rotate the outer locking rings** clockwise to fully pull in and make a complete connection.



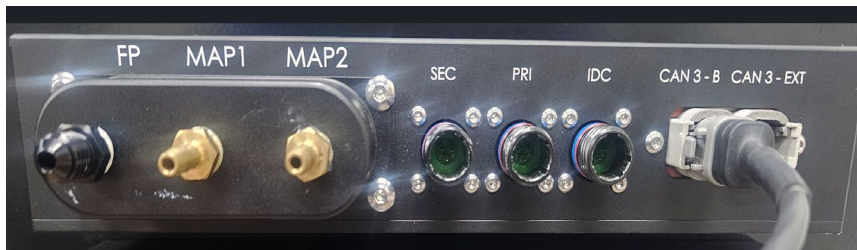
NOTE:

An **AWD Ready** Cabinet will have a CAN hub with 4 connectors as shown on the left image.

The additional (3 & 4) are for future use when upgrading to an AWD model.

Boom Arm DAQ Module Connections

After the boom arm is fitted to the cabinet, the boom arm DAQ module needs to be fitted as shown below with supplied screws.



IDC/Voltage Toggle Switch – Toggles input from IDC Lead from IDC function to 0-30V DC function.

Make the following connections to the boom arm DAQ module:

- SEC – Secondary Ignition RPM/ Tacho (inductive clamp)
 - PRI – Primary Ignition RPM / Tacho (voltage spike probe)
 - IDC – Injector Duty Cycle / Analog Voltage Input Cable (voltage spike probe)
 - CAN 3-B – CAN cable connection. This CAN cable will be inside the boom arm when packed.
 - MAP 1 – Connect 5 Metre Vacuum / Pressure Hose
 - MAP 2 – Connect 5 Metre Vacuum / Pressure Hose
 - FP – Fuel Pressure – User can connect their own pressure hose for fuel pressure measurements.
- The Weather Station is located internally in the boom arm DAQ module.

Note: Keyboard transmitter also shown in top photo.

The CAN cable fitted to **CAN 3-B** on the boom arm DAQ module is connected through the boom, arm to the CAN hub inside the cabinet at position **CAN 3-B** as shown below. **CAUTION - DO NOT FIT THE OBD2 CABLE INTO THE CAN3-EXT PORT ON THE DAQ BOX AS OBD2 IS 500KB BUS SPEED AND WILL CRASH THE 1MB BUS THE DATA ACQUISITION BOX COMMUNICATES AT.**



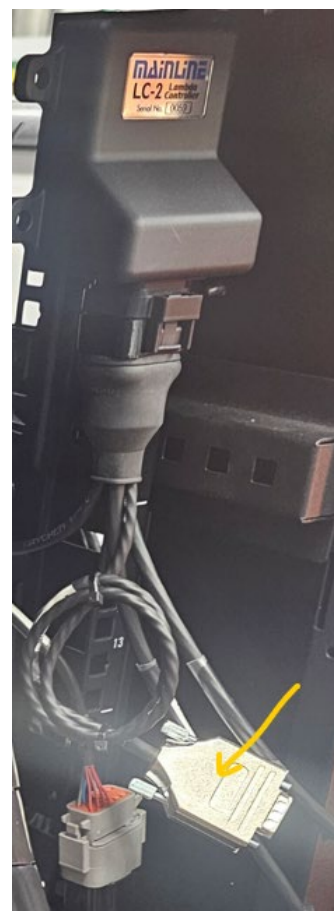
US Models Only – 110V Power Plug



This 110V power plug is to be plugged in to a general power outlet.

AFR Meter – Mainline LC-2

The Twin Channel AFR meter is mounted on the inside right hand side of the cabinet. It will already be connected, apart from the 1 or 2 AFR Sensor harnesses. These harnesses are connected to the AFR meter DTM connectors and passed out through the aperture at the bottom of the cabinet and connected to the O2 Sensor/s supplied.



NOTE:
The 'Analog Out"
harness coming from the
AFR meter is not used for
CCS models.

Optional Vehicle Cooling Fan Power Outlet

The vehicle cooling fan power outlet is on the upper left or the upper right-hand side of the cabinet, depending on if the dynamometer is for Left- or Right-hand drive vehicles.

The outlet will be for the specified mains power, for example 380V – 415V 3PH (Australia – Europe) 208V 3PH (Japan – USA) or 220V 1PH (Japan – USA).

The fan switching can be controlled manually ON or OFF via the CCS software by clicking on the FAN icon on the screen or by pressing the “V” key on the keyboard.



Optional Thermocouple Module

The optional 8 Channel Thermocouple module CAN-EGT8 is mounted on the boom arm with supplied adapter bracket and has a CAN harness marked “MLCCS-EGTBOXCBL” that will plug into the DTM4 socket marked “CAN 3 – EXT” in the Data Acquisition box.



Mains Power Supply (To the cabinet)

The larger harness shown below (with orange plug) is to be connected to your mains power supply wall socket.

The ProHub units will be wired to suit destination country power supply. If you are not sure, please contact Mainline for clarification of your specific power requirements.



MAINLINE Contacts

Phone: +61 246480612

Tech Support Request Form

<http://www.mainlinedyno.com.au/index.php/contact/support-request-menu>

Mainline Dyno Users Facebook Group

<https://www.facebook.com/groups/483915706071402>