

Figure 5 C-Drive connection to Pump / Motor

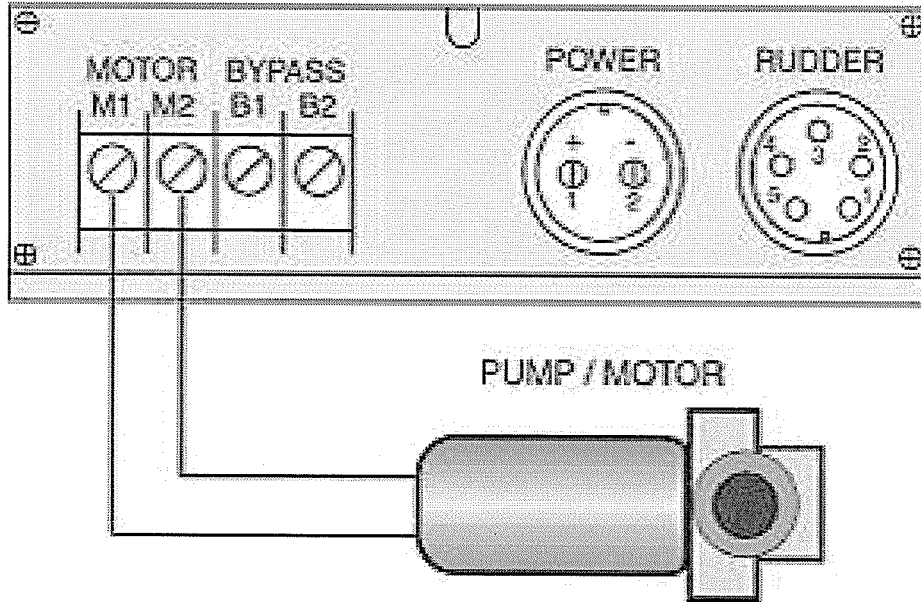
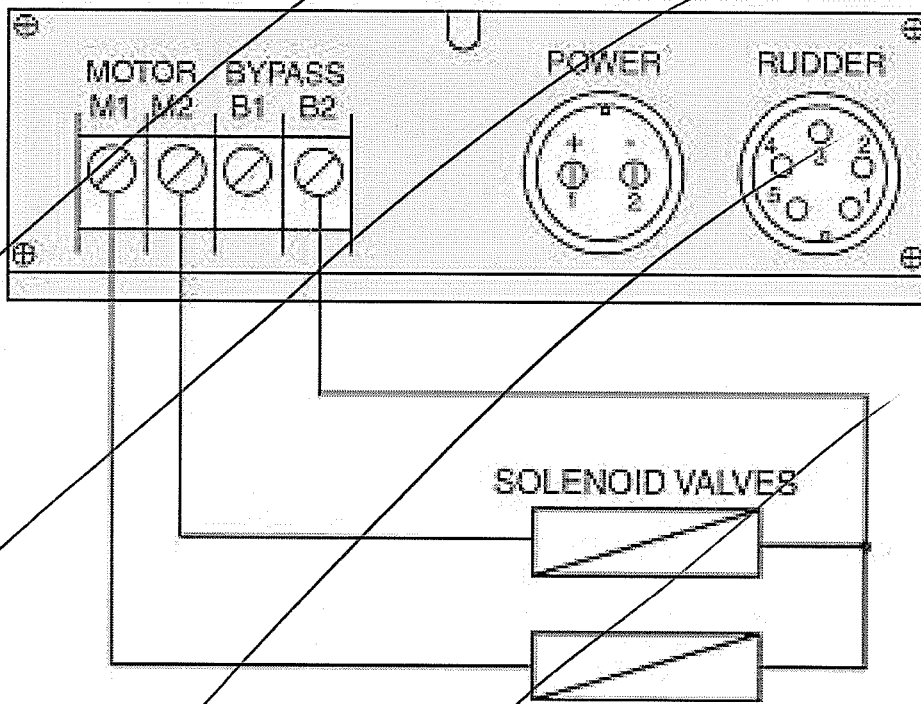
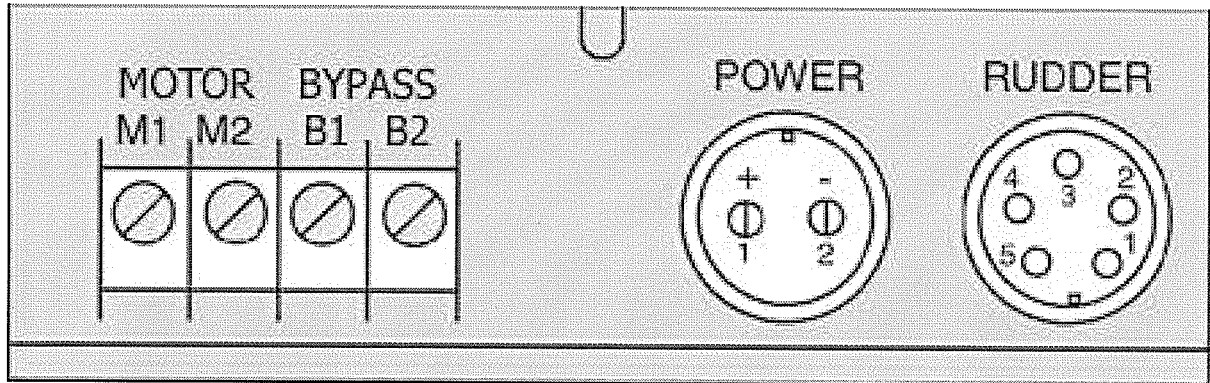


Figure 6 Solenoid Valve Connection Diagram



*Not
Used*

Figure 4 **Output Connections Panel**



Motor and Bypass Connections

Output terminals for connection to rudder position actuators.

The C-Drive 5 can be connected directly to reversing hydraulic pump motors or to reversing mechanical drive motors, with a maximum current rating of 15 Amps.

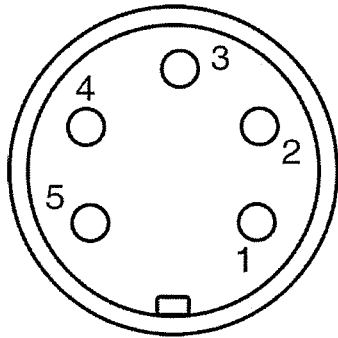
NOTE:

- The motor wires may require reversing to provide the correct rudder direction movement.

Rudder Feedback Wiring Diagrams

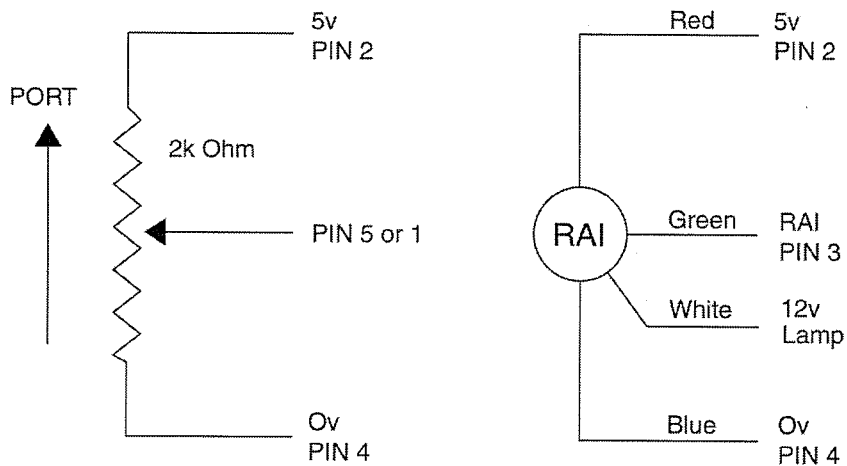
Pin connections from rear of plug, solder connection side.

Figure 1 Rudder Feedback Connection Diagram



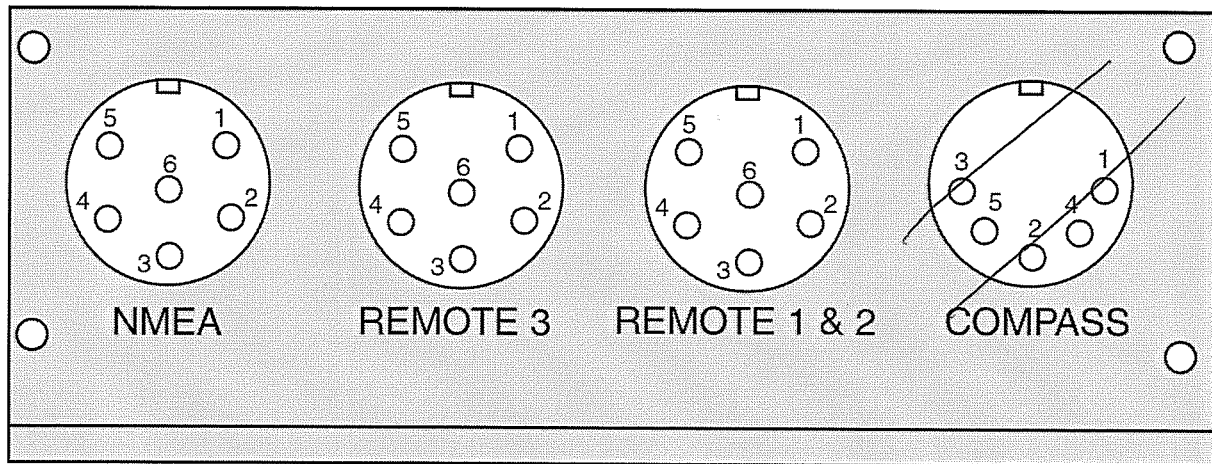
- Pin1 Rudder Feedback Signal (Yellow)
- Pin2 +5v Rudder Feedback supply (Red)
- Pin3 Rudder Angle Indicator (White)
- Pin4 0v Rudder Feedback Supply (Blue)
- Pin5 No Connection

Figure 2 Rudder Feedback and RAI Wiring Diagrams



C-Drive Unit Connection Layout

Figure 3 Input Connections Panel



NOTE: Pin identification from end of C-Drive unit
(Also solder side of plug pins.)

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~~Pin 1 White
Pin 2 Blue
Pin 3 Red
Pin 4 Yellow
Pin 5 Green~~

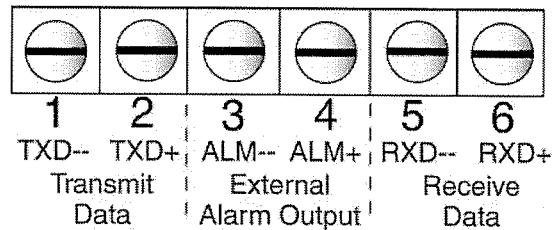
Not Used

Remotes 1 & 2 - Connection for remotes 1 & 2, Steering levers/wheels etc

Pin 1 +5v Power Out (Red)
Pin 2 Remote 1 Steering Signal Input (Green)
Pin 3 0v, Common Ground (Blue)
Pin 4 Remote 1 Auto / Manual Select (Yellow) [Also, Remote 1 Select Line]
Pin 5 Remote 2 Steering Signal Input (Green)
Pin 6 Remote 2 Auto / Manual Select (Yellow) [Also, Remote 2 Select Line]

NMEA Heading Data I/O & External Alarm Connection

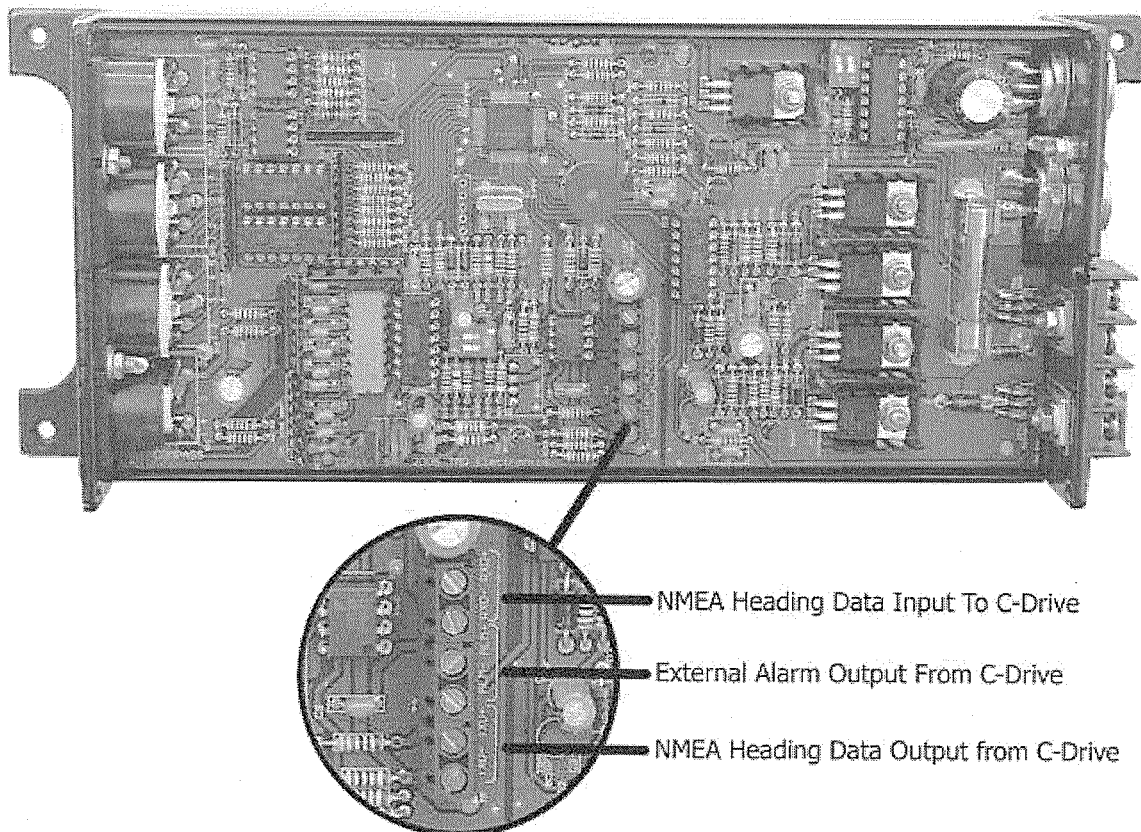
An internal terminal strip in the C-Drive unit has the following connections:



- Pins 1&2 = TXD- TXD+ (NMEA Heading Data Output from C-Drive)
- Pins 3&4 = ALM- ALM+ (External Alarm Output from C-Drive)
- Pins 5&6 = RXD- RXD+ (NMEA Heading Data Input to C-Drive)

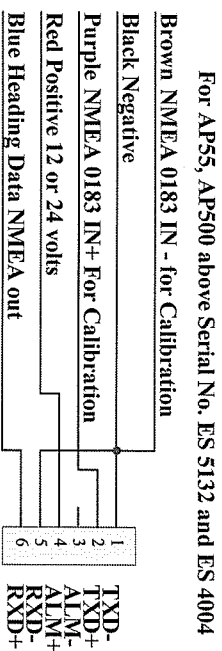
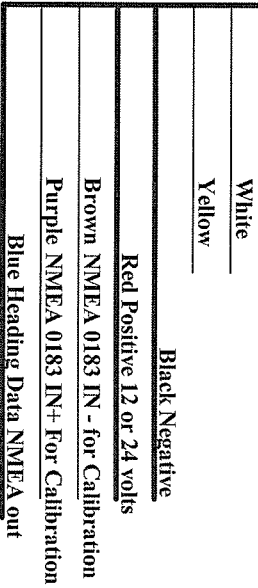
The External Alarm output becomes active 60 seconds after the internal alarm, allowing an additional alarm to be placed in an audible position.

NMEA Heading Data I/O terminal strip location



Eprona Compass

Calibration Software only valid on Autopilots sold after July 2008



Title		Revision	
Size	Number		
A4			
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File:	C:\Documents\PROTEL\Protel99\Production\Drawings\Wiring Diagrams.ddb		