

## EPAS Ultra CAN Messages

### 1 Introduction

This document provides additional information on the format of the CAN messages produced by the EPAS Ultra Electronic Power Assisted Steering Controller.

### 2 CAN Messages

Two CAN messages are currently defined.

The 11-bit ID for each CAN message can be fully defined by the user but the format of the payload of each message is fixed and is described in the following sections.

#### 2.1 CAN Message #1

Message Byte	Description
D0	Torque (bits)
D1	Motor duty (%)
D2	Current (A)
D3	Supply voltage (1 bit = 100mV)
D4	Switch position (0 to 15)
D5	Box temperature (°C)
D6	Torque A (raw value in bits)
D7	Torque B (raw value in bits)

## 2.2 CAN Message #2

Message Byte	Description
D0	Steering angle (bits)
D1	Analogue channel #1 (bits)
D2	Analogue channel #2 (bits)
D3	Not used
D4	Not used
D5	Bitfield of digital I/O values
D6	Reserved
D7	Reserved

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