

Cosworth CAN Formula Wheel 277 (CFW277)

The Cosworth CFW277 is a 277mm diameter formula wheel for use in open and closed cockpit racing cars. Using Cosworth's experience in designing and building F1 steering wheels, the CFW277 is constructed from aerospace grade, anodized aluminium with ergonomic moulded rubber grips.

A vibrant 3.5" sunlight viewable TFT display boasting a high graphical resolution of 320x240 QVGA and 64k colours makes this one of the most powerful driver displays on the market. Paired with 8 clearly visible and configurable shift lights the CFW277 is the perfect solution for a formula wheel.

There are 6 permanently fitted switches which have been ergonomically positioned for driver comfort and practicality. All switch states are available on CAN and 2 switches also have a direct electrical connection for switching non CAN devices such as radio push to talk function. There is an option to fit two rotary switches suitable for ECU map control. The wheel comes with a professional sticker pack to allow the end user to easily customise the wheel to their own specifications.



The CFW has been designed with cost effective Amphenol LTW connectors suitable for use with simple low cost coiled harnesses. One connector is for the switches and power, the other for expansion to a paddleshift system.

The wheel has been designed to accept industry standard gearshift paddles including Cosworth, Shifttec and Hewland as standard but others may be compatible. The paddles are CAN based as well as being directly passed through the system connector for direct electrical connection.

Designed to be electrically robust, the CFW277 has reverse-battery, over-voltage and load dump protection built in.

Specifications

Technical Data	
Supply voltage	10-18V
Supply current	230mA
Screen	a-Si TFT LCD 3.5"
Pixels	320 x 240 QVGA
Viewable Area	70.08 x 52.56mm
Switches	6
Button Legends	User Configurable
Gearshift Paddles	2 (optional)
Coily Outputs	2x Switch S1 & S4, 2x Paddles
Rotary switches	2 x 12 position (optional)
Switch steps	12 Positions
CAN communication	1 x CAN 2.0B
CAN rate	1Mb
CAN Termination	Un-terminated
Temperature Rating	Operating -20 to +70°C Storage -30 to +80°C

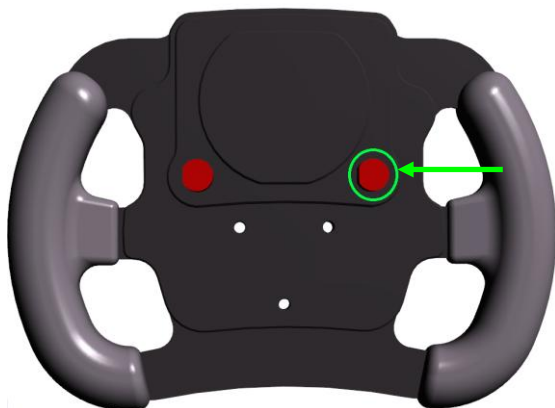
Mechanical Data	
Material	Al.Alloy 6082-T6
Diameter	277mm
QR offset	19mm back from grip centreline
QR Mounting	3 hole 50.8mm PCD QR
QR Fixing	M5 countersunk high tensile bolts (not included)
Weight	1200g (ex QR & paddles)
IP Rating	IP65

Ordering Information

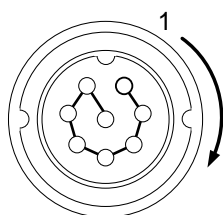
Part Number	
01D-032985	Cosworth CAN Formula Wheel (ex Rotaries)
01D-032985-RS	Cosworth CAN Formula Wheel (inc Rotaries Switches)
03A-06500	CAN Formula Wheel Coiled Harness

Connector Information

System Connector

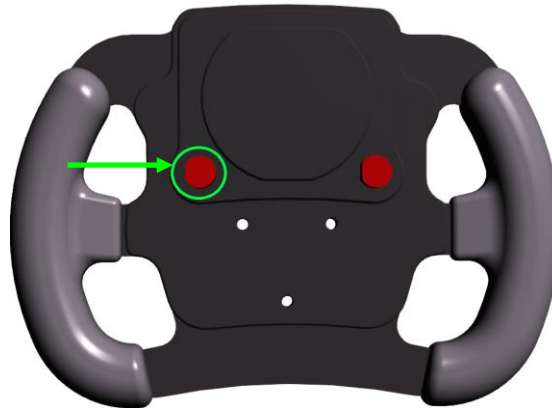


Connector	Mating connector
LTW BD-08PMMP-LC7001	LTWBD-08BFFA-LL7001

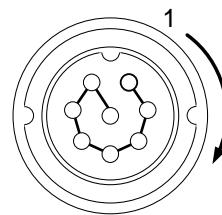


Amphenol
LTWDB-08BFFA-LL1001
Mating Face view

Expansion Connector



Connector	Mating connector
LTW BD-08PMMP-LC7001	LTWBD-08BFFA-LL7001



Amphenol
LTWDB-08BFFA-LL1001
Mating Face view

Pinout

Pin	Signal	Description
1	Gnd	Ground
2	+12V	VBatt
3	CAN Lo	CAN Lo
4	CAN Hi	CAN Hi
5	CS1	S1 Direct Output
6	CS2	S4 Direct Output
7	Up_Pad_Out	Up Paddle Output
8	Dn_Pad_Out	Down Paddle Output

Pinout

Pin	Signal	Description
1	Gnd	Ground
2	P_PWR	+8V Paddle Power
3	USB_V+	USB_V+
4	USB_D-	USB_D-
5	USB_D+	USB_D+
6	USB_Gnd	USB_Gnd
7	Up_Pad_In	Up Paddle Input
8	Dn_Pad_In	Down Paddle Input

Dimensions

