

Emergency Clutch Release

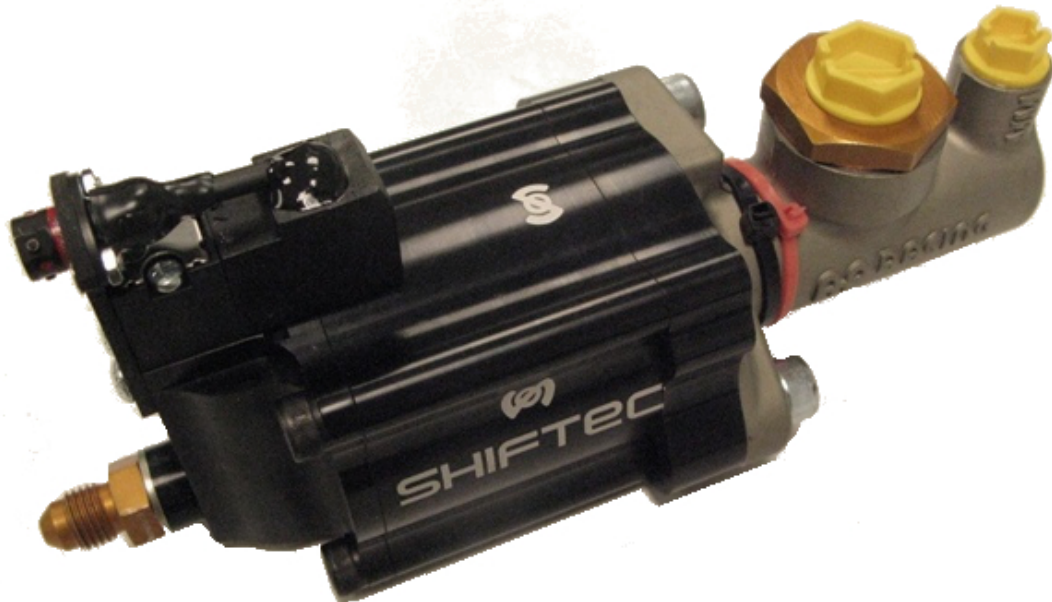
Model ZZ008-1

Introduction:

The Emergency Clutch Release is designed to work as a standalone installation to enable actuation of a vehicle clutch.

It has been approved by FIA and ACO for use in 2015 LMP vehicles as an emergency neutral device capable of disconnecting vehicle drivetrains.

The ECR requires an external air source and a simple DC power supply.



Summary:

The unit requires an air supply and a power supply of 9-14v.

It will work with either an air supply from an existing air source on the car such as a pneumatic gear shift compressor or can run from a standalone high pressure reservoir.

Installation is by plumbing the unit in line with the existing hydraulic clutch line. The driver retains full control over the clutch with the standard clutch pedal.

On activation, the ECR applies pressure to the clutch slave cylinder for as long as power is supplied to the unit. It is normally operated with a latching switch working from a 9V PP3 battery.

Once power is removed, the unit removes pressure and returns clutch control to the driver.

Due to the standalone nature of the unit it does not influence normal clutch operation.

It is possible to integrate the system with the vehicle systems to provide a clutch blip operation if required during gearshifts.

Clutch opening time will depend on air pressure, master cylinder and clutch specification.

It is supplied with an AP master cylinder. The size of cylinder is calculated based on the release load and travel of the clutch fitted to the car. This needs to be calculated and specified by Shiftec.

System requirements:

Recommended Air pressure	.....	8-9 bar
Electrical supply	.....	9-14 V
Recommended working temperature	.....	<75 °C
Valve resistance	.....	50 Ohms

Technical data:

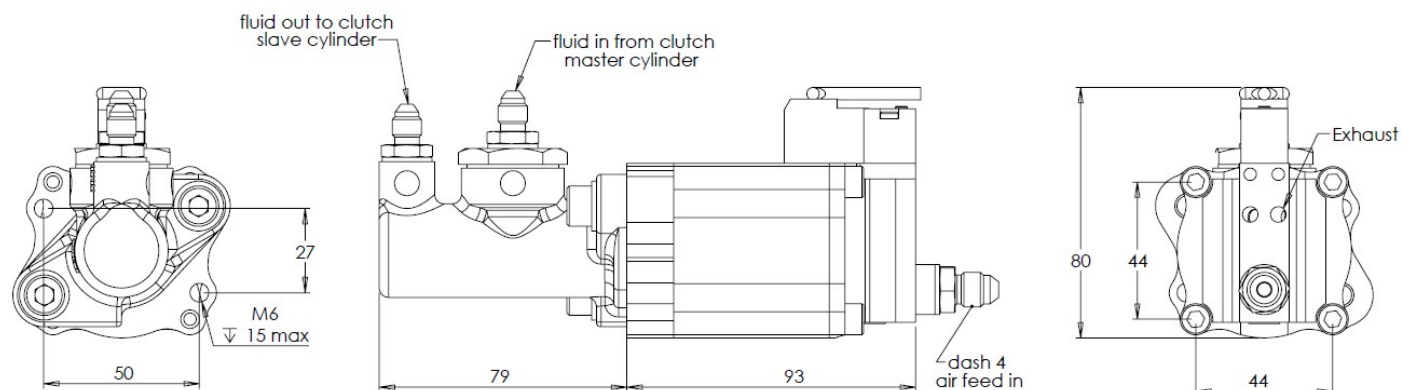
Air supply fitting	.....	Dash 4 JIC male
Clutch fluid fittings	.....	Dash 4 JIC male
Electrical response time	.....	10 msec
Available travel	.....	25 mm
Valve wiring connector fitted	.....	ASU03PN

Pin out:

Pin	Name	Comment
1	+12V	24awg
2	GND	24awg
3	N/C	

Dimensions:

Length	.....	175 mm
Width	.....	65 mm
Height	.....	88 mm
Weight	.....	800 g



Ordering information:

Description	Part number
Emergency clutch release	ZZ008-1

Optional master cylinders	Part number
Master cylinder 14mm	CP4623-88NC
Master cylinder 15mm	CP4623-89NC
Master cylinder 5/8"	CP4623-90NC
Master cylinder 0.7"	CP4623-91NC
Master cylinder 13/16"	CP4623-93NC

Optional extras	Part number
Standalone accumulator	ZG043-1
High pressure CO2 filling kit	ZL025-1
Spare CO2 mini bottle	ZL026-1