



725 South La Cadena Drive Colton CA 92324
Tel 909.291.7550 CBMmotorsports.com

2.4L Ecotec LE5 OEM Wiring Harness Diagram

Connector:	Description:	Wire colors:
Diag/Data	6 pin black - OBD II	black, black, tan, tan w/white stripe, pink
Crank sensor	3 pin black w/white insert	green, yellow w/black stripe, blue w/white stripe
Knock sensor	2 pin black w/green seal	blue, grey
Ignition coils	4 pin black w/purple insert	black, black, purple, pink (1) black, black, red, pink (2) black, black, blue, pink (3) black, black, green, pink (4)
Injectors	2 pin black w/grey clip	pink, black (1) pink, green w/black stripe (2) pink, pink w/black stripe (3) pink, blue/black (4)
Cam sensor (intake)	3 pin black w/purple seal	green, tan, yellow w/black stripe
Cam sensor (exhaust)	3 pin black w/purple seal	green, brown, yellow w/black stripe
VVT (intake)	2 pin grey w/blue seal	orange, black
VVT (exhaust)	2 pin black w/blue seal	purple black
MAP (Bosch) - or - Map (Delphi)	3 pin black w/orange seal 3 pin grey w/purple seal	grey, green, black grey, green, black
Coolant temp	2 pin black w/blue seal	yellow, black
Alternator	2 pin black w/orange seal	pink
O2 sensor	4 pin stacked white w/blue seal	pink, tan, black, purple
Ground	2 wire ring terminal	black, black
Throttle body	8 pin black w/purple seal - or - 6 pin black w/grey seal	yellow, brown, green, blue w/black stripe, purple, grey, tan, tan w/white stripe brown, yellow, tan w/white stripe green, blue w/black stripe, purple
Electric pedal	6 pin stacked w/blue seal	purple, lt. blue, tan, dk. blue, black w/white stripe
Air temp	2 pin grey w/blue seal	black w/white stripe, tan

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Part#

Notes

Date

02/05/19

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2.4L Ecotec LE5 OEM Wiring Harness Diagram cont.

Blunt cut wires*:	Description:	Wire colors:
Temp sender	Coolant temp gauge	yellow
Pressure sender	Oil pressure gauge	brown
**Thermostatic switch	Connect to provided switch #30113	blue

*These wires are provided for convenience only and do not need to be connected for the operation of our system. If your application uses analog gauges, simply connect the end of this wire to the sender. At the opposite end of the harness (by the relay pack) you will find the other end of the like colored wire. Connect this side directly to the gauge. This allows a clean installation without having to run additional wires through the harness. If you do not connect the harness end to a sender the gauges will not receive a signal and will display a zero value.

**Thermostatic switch is to be installed on upper radiator hose or in overflow port on cylinder head. If you choose to install in overflow port please note current fitting 8mm x 1.25 thread pitch. Hole must be drilled and tapped to 12mm x 1.5 to accommodate sensor. As of 2017, all thermostatic switches have (2) terminals. One must connect to the blue wire on the harness and the second to a ground. Failure to install this thermostatic switch will result in fans that do not function.

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