

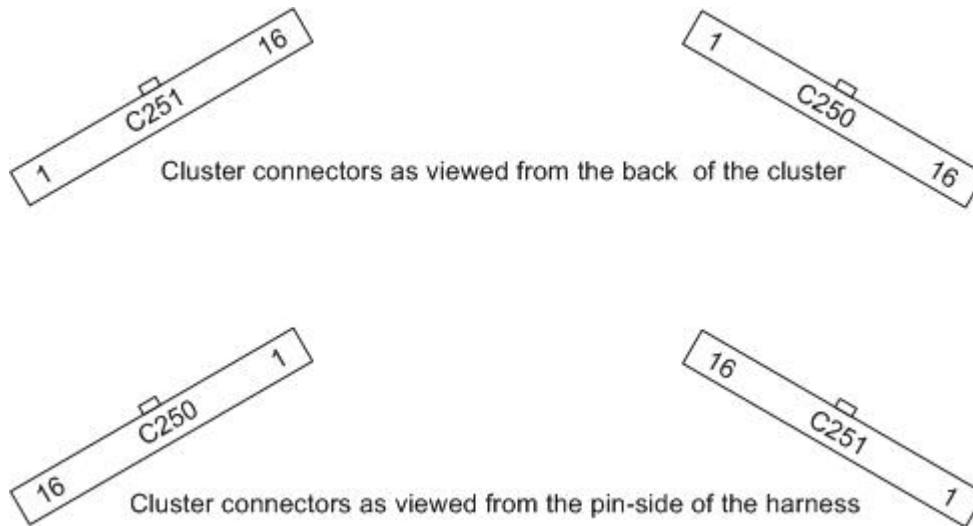
94-98 Mustang Cluster Connector Pinouts

Mark Olson

Accutach Company

Rev1.0

2017



94 and 95 cluster pinouts are compatible with each other. 96 and 97 cluster pinouts are compatible with each other. 98 cluster pinouts are compatible with the 96 and 97 clusters, except for two pins.

The next pages show comparisons of pinouts between the 94-95 clusters and the 96-97 clusters

Note that 98 clusters can be used in 96-97 cars and vice versa, but if you do swap across those years, you must swap pins C250-14 and C250-15 in the car's wiring harness in order to make it work. 96-98 clusters can be used in 94-95 cars and vice versa, but you will need to swap all of the different pins described above to get it to work.

Laddinator has told me that he has swapped the gauge modules directly from a 96 Cobra cluster into a 94/95 cluster and got it to work without having to re-pin the connectors. He needed to swap the fuel gauge anti-slosh module too, since all fuel gauges and anti-slosh modules are calibrated together at the factory. Since there is no slot for the low coolant anti-slosh module in the 94/95 cluster, he has to run without the low coolant anti-slosh module. It should work, it just will be susceptible to slosh.

* Note that, in the 98 Mustang Helm Manual, ground and power are swapped in the pinout description, but are actually not swapped relative to the 96-97 clusters. The 98 Mustang Helm Manual mistakenly calls C251-1 "GND" and calls C251-5 "Illuminated Lamp Feed", but they should be the same as the descriptions for the 96-97 clusters.

** Note that the 98 Mustang clusters have the Low Oil light and wiring that the older clusters have, but the 98 cars do not have the low oil sender that the older cars have in the oil pan. The 98 Helm Manual says that C251-11 is not used.

Pinout Comparison between 96-98 Mustang Clusters

Yellow highlights pinout differences.

	98 Mustang Cluster	96-97 Cobra Cluster	
Pin #	Description	Description	
C251-1	GND*	Illumination Power*	
C251-2	GND	GND: Volt & Oil Gauges	
C251-3	Signal: Oil Pressure	Signal: Oil Pressure	
C251-4	IGN	IGN: Volt & Oil Gauges	
C251-5	Illuminated lamp feed*	GND: Illumination*	
C251-6	Signal: Low Coolant	Signal: Low Coolant	
C251-7	GND	GND: Tach & Low Coolant module	
C251-8	Signal: Tach	Signal: Tach	
C251-9	GND	GND: Tach	
C251-10	IGN	IGN: Tach, Low Coolant, Low Oil, ABS, Brake, Air Bag	
C251-11	NOT USED	Signal: Low Oil	
C251-12	Signal: ABS	Signal: ABS	
C251-13	Signal: Brake	Signal: Brake	
C251-14	Signal: Air Bag	Signal: Air Bag	
C251-15	Signal: Seat Belt	Signal: Seat Belt	
C251-16	Signal: Right Turn	Signal: Right Turn	
C250-1	Signal: Left Turn	Signal: Left Turn	
C250-2	Signal: High Beams	Signal: High Beams	
C250-3	Signal: Theft	Signal: Theft	
C250-4	BATT: Speedometer & Theft	BATT: Speedometer & Theft	
C250-5	Signal: Speedometer	Signal: Speedometer	
C250-6	GND: Speedometer	GND: Speedometer	
C250-7	IGN	IGN: Speedometer, OD Off, CEL	
C250-8	Signal: OD Off	Signal: OD Off	
C250-9	Signal: CEL	Signal: CEL	
C250-10	Signal: Charging Light	IGN: Charging Light	
C250-11	IGN	Signal: Charging Light	
C250-12	GND	Illumination GND	
C250-13	Signal: Fuel Gauge	Signal: Fuel Gauge	
C250-14	GND	Signal: Temp Gauge	
C250-15	Signal: Temp Gauge	GND: Temp/Fuel/Anti-slosh	
C250-16	IGN	IGN: Temp/Fuel/Anti-slosh	
	* The Illumination power and ground pins are swapped, but that has no consequence to operation unless the lighting is upgraded to LED. Then care must be taken with the polarity.		

Pinout Comparison between 94-97 Mustang Clusters

Yellow highlights pinout differences.

	96-97 Cobra Cluster	94-95 Clusters	
Pin #	Description	Description	
C251-1	Illumination Power	Right Illumination Power	
C251-2	GND: Volt & Oil Gauges	Signal: Oil Pressure	
C251-3	Signal: Oil Pressure	GND: Volt & Oil Gauges	
C251-4	IGN: Volt & Oil Gauges	IGN: Volt & Oil Gauges	
C251-5	GND: Illumination	Signal: Seat Belt	
C251-6	Signal: Low Coolant	Illumination GND	
C251-7	GND: Tach & Low Coolant module	Signal: Low Oil (not used in V6)	
C251-8	Signal: Tach	IGN: Tach, Low Coolant, Low Oil, ABS, Brake, Air Bag	
C251-9	GND: Tach	GND: Tach (not used in V6)	
C251-10	IGN: Tach, Low Coolant, Low Oil, ABS, Bra	Signal: Tach	
C251-11	Signal: Low Oil	GND: Tach	
C251-12	Signal: ABS	Signal: ABS	
C251-13	Signal: Brake	Signal: Brake	
C251-14	Signal: Air Bag	Signal: Air Bag	
C251-15	Signal: Seat Belt	Signal: Low Coolant	
C251-16	Signal: Right Turn	Signal: Right Turn	
C250-1	Signal: Left Turn	Signal: Left Turn	
C250-2	Signal: High Beams	Signal: High Beams	
C250-3	Signal: Theft	Signal: Theft	
C250-4	BATT: Speedometer & Theft	BATT: Speedometer & Theft	
C250-5	Signal: Speedometer	Signal: Speedometer	
C250-6	GND: Speedometer	GND: Speedometer	
C250-7	IGN: Speedometer, OD Off, CEL	IGN: Speedometer, OD Off, CEL	
C250-8	Signal: OD Off	Signal: OD Off	
C250-9	Signal: CEL	Signal: CEL	
C250-10	IGN: Charging Light	IGN: Charging Light	
C250-11	Signal: Charging Light	Signal: Charging Light	
C250-12	Illumination GND	Left Illumination Power	
C250-13	Signal: Fuel Gauge	Signal: Fuel Gauge	
C250-14	Signal: Temp Gauge	Signal: Temp Gauge	
C250-15	GND: Temp/Fuel/Anti-slosh	GND: Temp/Fuel/Anti-slosh	
C250-16	IGN: Temp/Fuel/Anti-slosh	IGN: Temp/Fuel/Anti-slosh	