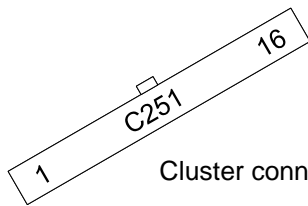
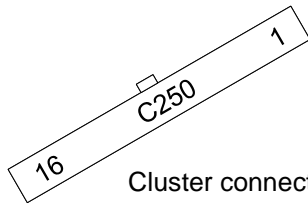
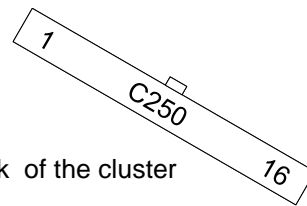


94-98 Mustang Cluster Connector Pinouts

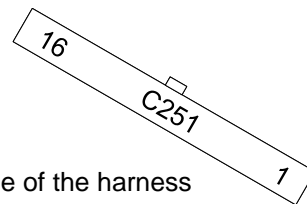
Mark Olson
Accutach Company
Rev2.1
2017, 2023



Cluster connectors as viewed from the back of the cluster
96-98 Pin number scheme



Cluster connectors as viewed from the pin-side of the harness
96-98 Pin number scheme



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.

Be aware that Ford reversed their cluster pin numbering scheme between 1995 and 1996. The actual pin functions are consistent between those generations, but the EVTm pin number directions are reversed. See the final page of this document to see the Ford EVTm pages.

The next pages show comparisons of pinouts between the 94-95 clusters and the 96-97 clusters. Rev 2.0 fixes a few minor errors and adds wire colors to the document. Note that the wire colors are consistent across all 5 years. Cluster swap pin swap maps were also added. Rev 2.1 makes note of the Ford Pin number scheme change.

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.

If you swap gauge modules from one cluster body to another, be sure to swap the fuel gauge and its anti-slosh module (little PCB below it) together. They are calibrated together at the factory.

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 in 98 cars.

Thanks to Daren Keller of Newrad Solutions for pointing out the pin numbering convention differences between 94/95 EVTMs and 96-98 EVTMs.

**Pinout Comparison between 96-98 Mustang Clusters
Yellow highlights pinout differences.**

	98 Mustang Cluster	96/97 Cobra Cluster
Pin #	Description	Description
C251-1	Illumination GND(BLK)	Illuminaiton GND(BLK)
C251-2	GND: Volt & Oil Gauges(BLK/LT BLU)	GND: Volt & Oil Gauges(BLK/LT BLU)
C251-3	Signal: Oil Pressure(WHT/RED)	Signal: Oil Pressure(WHT/RED)
C251-4	IGN: Volt & Oil Gauges(RED/YEL)	IGN: Volt & Oil Gauges(RED/YEL)
C251-5	Illumination power(LT BLU/RED)	Illumination power(LT BLU/RED)
C251-6	Signal: Low Coolant(LT BLU)	Signal: Low Coolant(LT BLU)
C251-7	GND: Tach & Low Coolant(BLK/WHT)	GND: Tach & Low Coolant(BLK/WHT)
C251-8	Signal: Tach(TAN/YEL)	Signal: Tach(TAN/YEL)
C251-9	GND: Tach CYL SEL(BLK/YEL)	GND: Tach CYL SEL(BLK/YEL)
C251-10	IGN(RED/YEL)	IGN(RED/YEL)
C251-11	NOT USED	Signal: Low Oil(GRY)
C251-12	Signal: ABS(DK GRN)	Signal: ABS(DK GRN)
C251-13	Signal: Brake(PPL/YEL)	Signal: Brake(PPL/YEL)
C251-14	Signal: Air Bag(BLK/YEL)	Signal: Air Bag(BLK/YEL)
C251-15	Signal: Seat Belt(DK GRN/LT GRN)	Signal: Seat Belt(DK GRN/LT GRN)
C251-16	Signal: Right Turn(WHT/ LT BLU)	Signal: Right Turn(WHT/ LT BLU)
C250-1	Signal: Left Turn(LT GRN/WHT)	Signal: Left Turn(LT GRN/WHT)
C250-2	Signal: High Beams(GRY/WHT)	Signal: High Beams(GRY/WHT)
C250-3	Signal: Theft(DK BLU/LT GRN)	Signal: Theft(DK BLU/LT GRN)
C250-4	BATT: Speedo & Theft(LT GRN/YEL)	BATT: Speedo & Theft(LT GRN/YEL)
C250-5	Signal: Speedo(GRY/BLK)	Signal: Speedo(GRY/BLK)
C250-6	GND: Speedo(PNK/ORN)	GND: Speedo(PNK/ORN)
C250-7	IGN(RED/YEL)	IGN(RED/YEL)
C250-8	Signal: OD Off(WHT/LT GRN)	Signal: OD Off(WHT/LT GRN)
C250-9	Signal: CEL(PNK/LT GRN)	Signal: CEL(PNK/LT GRN)
C250-10	Signal: Charging Light(LT GRN/RED)	Signal: Charging Light(LT GRN/RED)
C250-11	IGN: Charging Light(RED/LT GRN)	IGN: Charging Light(RED/LT GRN)
C250-12	Illumination GND(BLK)	Illumination GND(BLK)
C250-13	Signal: Fuel Gauge(YEL/WHT)	Signal: Fuel Gauge(YEL/WHT)
C250-14	GND: Temp/Fuel/Anti-slosh(ORG/YEL)	Signal: Temp Gauge(RED/WHT)
C250-15	Signal: Temp Gauge(RED/WHT)	GND: Temp/Fuel/Anti-slosh(ORG/YEL)
C250-16	IGN: Temp/Fuel/Anti-slosh(RED/YEL)	IGN: Temp/Fuel/Anti-slosh(RED/YEL)

**Pins to Swap when Swapping Clusters
between 96/97 & 98 Mustangs .**

	98 Mustang Cluster	96/97 Cobra Cluster
Pin #	Description	Description
C251-1	Illumination GND(BLK)	Illuminaiton GND(BLK)
C251-2	GND: Volt & Oil Gauges(BLK/LT BLU)	GND: Volt & Oil Gauges(BLK/LT BLU)
C251-3	Signal: Oil Pressure(WHT/RED)	Signal: Oil Pressure(WHT/RED)
C251-4	IGN: Volt & Oil Gauges(RED/YEL)	IGN: Volt & Oil Gauges(RED/YEL)
C251-5	Illumination power(LT BLU/RED)	Illumination power(LT BLU/RED)
C251-6	Signal: Low Coolant(LT BLU)	Signal: Low Coolant(LT BLU)
C251-7	GND: Tach & Low Coolant(BLK/WHT)	GND: Tach & Low Coolant(BLK/WHT)
C251-8	Signal: Tach(TAN/YEL)	Signal: Tach(TAN/YEL)
C251-9	GND: Tach CYL SEL(BLK/YEL)	GND: Tach CYL SEL(BLK/YEL)
C251-10	IGN(RED/YEL)	IGN(RED/YEL)
C251-11	NOT USED	Signal: Low Oil(GRY)
C251-12	Signal: ABS(DK GRN)	Signal: ABS(DK GRN)
C251-13	Signal: Brake(PPL/YEL)	Signal: Brake(PPL/YEL)
C251-14	Signal: Air Bag(BLK/YEL)	Signal: Air Bag(BLK/YEL)
C251-15	Signal: Seat Belt(DK GRN/LT GRN)	Signal: Seat Belt(DK GRN/LT GRN)
C251-16	Signal: Right Turn(WHT/ LT BLU)	Signal: Right Turn(WHT/ LT BLU)
C250-1	Signal: Left Turn(LT GRN/WHT)	Signal: Left Turn(LT GRN/WHT)
C250-2	Signal: High Beams(GRY/WHT)	Signal: High Beams(GRY/WHT)
C250-3	Signal: Theft(DK BLU/LT GRN)	Signal: Theft(DK BLU/LT GRN)
C250-4	BATT: Speedo & Theft(LT GRN/YEL)	BATT: Speedo & Theft(LT GRN/YEL)
C250-5	Signal: Speedo(GRY/BLK)	Signal: Speedo(GRY/BLK)
C250-6	GND: Speedo(PNK/ORN)	GND: Speedo(PNK/ORN)
C250-7	IGN(RED/YEL)	IGN(RED/YEL)
C250-8	Signal: OD Off(WHT/LT GRN)	Signal: OD Off(WHT/LT GRN)
C250-9	Signal: CEL(PNK/LT GRN)	Signal: CEL(PNK/LT GRN)
C250-10	Signal: Charging Light(LT GRN/RED)	Signal: Charging Light(LT GRN/RED)
C250-11	IGN: Charging Light(RED/LT GRN)	IGN: Charging Light(RED/LT GRN)
C250-12	Illumination GND(BLK)	Illumination GND(BLK)
C250-13	Signal: Fuel Gauge(YEL/WHT)	Signal: Fuel Gauge(YEL/WHT)
C250-14	GND: Temp/Fuel/Anti-slosh(ORG/YEL)	Signal: Temp Gauge(RED/WHT)
C250-15	Signal: Temp Gauge(RED/WHT)	GND: Temp/Fuel/Anti-slosh(ORG/YEL)
C250-16	IGN: Temp/Fuel/Anti-slosh(RED/YEL)	IGN: Temp/Fuel/Anti-slosh(RED/YEL)

Pinout Comparison between 94-97 Mustang Clusters

Yellow highlights pinout differences.

Note: 96-98 Pin numbering scheme used for this chart

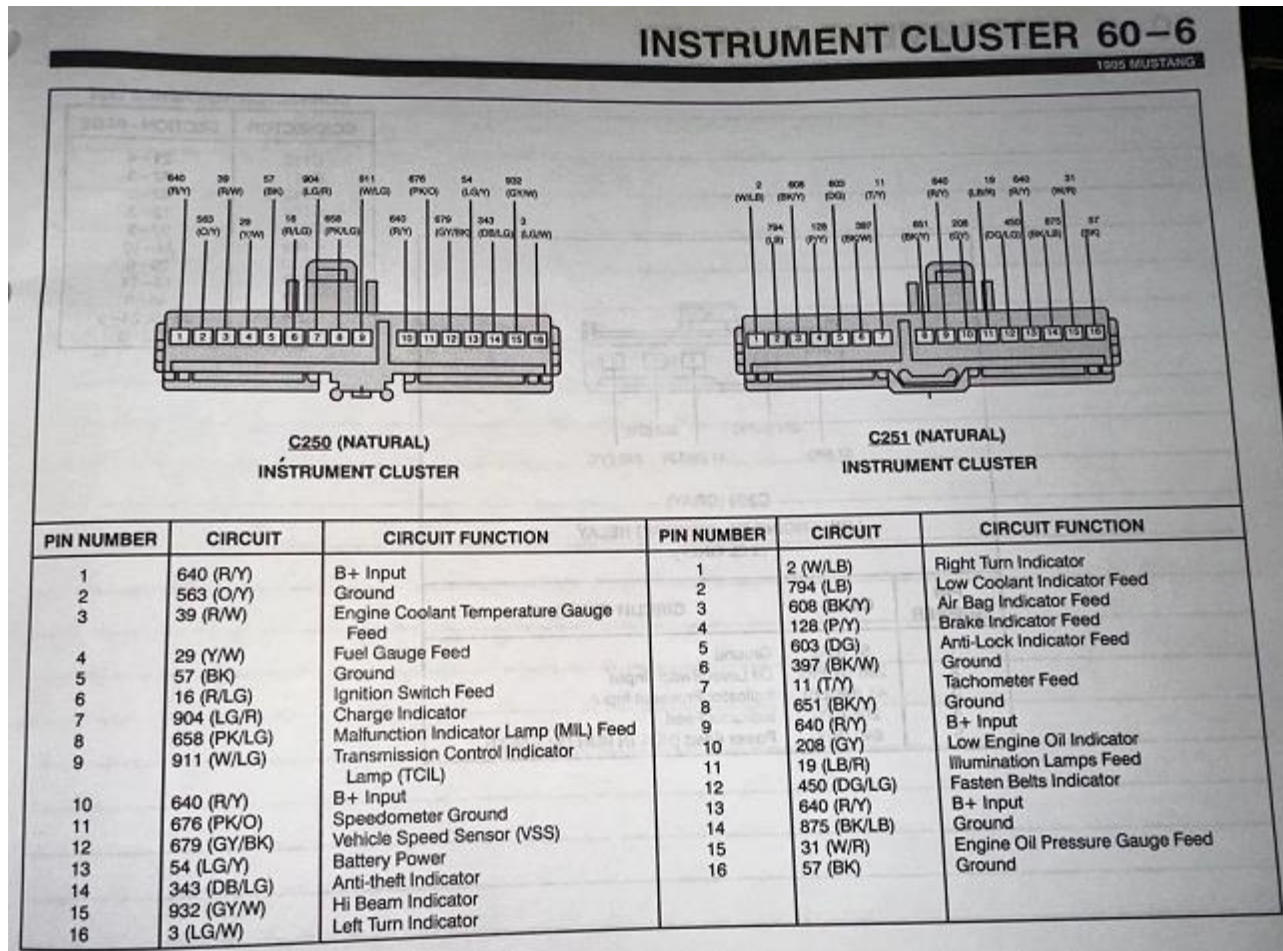
	96-97 Clusters	94-95 Clusters
Pin #	Description	Description
C251-1	Illumination GND(BLK)	Illumination GND(BLK)
C251-2	GND: Volt & Oil Gauges(BLK/LT BLU)	Signal: Oil Pressure(WHT/RED)
C251-3	Signal: Oil Pressure(WHT/RED)	GND: Volt & Oil Gauges(BLK/LT BLU)
C251-4	IGN: Volt & Oil Gauges(RED/YEL)	IGN: Volt & Oil Gauges(RED/YEL)
C251-5	Illumination Power(LT BLU/RED)	Signal: Seat Belt(DK GRN/LT GRN)
C251-6	Signal: Low Coolant(LT BLU)	Illumination Power(LT BLU/RED)
C251-7	GND: Tach & Low Coolant module(BLK/WHT)	Signal: Low Oil (not used in V6)(GRY)
C251-8	Signal: Tach(TAN/YEL)	IGN(RED/YEL)
C251-9	GND: Tach CYL SEL(BLK/YEL)	GND: Tach CYL SEL(BLK/YEL) (not used in V6)
C251-10	IGN(RED/YEL)	Signal: Tach(TAN/YEL)
C251-11	Signal: Low Oil(GRY)	GND: Tach(BLK/WHT)
C251-12	Signal: ABS(DK GRN)	Signal: ABS(DK GRN)
C251-13	Signal: Brake(PPL/YEL)	Signal: Brake(PPL/YEL)
C251-14	Signal: Air Bag(BLK/YEL)	Signal: Air Bag(BLK/YEL)
C251-15	Signal: Seat Belt(DK GRN/LT GRN)	Signal: Low Coolant(LT BLU) (not used in V6)
C251-16	Signal: Right Turn(WHT/LT BLU)	Signal: Right Turn(WHT/LT BLU)
C250-1	Signal: Left Turn(LT GRN/WHT)	Signal: Left Turn(LT GRN/WHT)
C250-2	Signal: High Beams(GRY/WHT)	Signal: High Beams(GRY/WHT)
C250-3	Signal: Theft(DK BLU/LT GRN)	Signal: Theft(DK BLU/LT GRN)
C250-4	BATT: Speedo & Theft(LT GRN/YEL)	BATT: Speedo & Theft(LT GRN/YEL)
C250-5	Signal: Speedo(GRY/BLK)	Signal: Speedo(GRY/BLK)
C250-6	GND: Speedo(PNK/ORN)	GND: Speedo(PNK/ORN)
C250-7	IGN: Speedo, OD Off, CEL(RED/YEL)	IGN: Speedo, OD Off, CEL(RED/YEL)
C250-8	Signal: OD Off(WHT/LT GRN)	Signal: OD Off(WHT/LT GRN)
C250-9	Signal: CEL(PNK/LT GRN)	Signal: CEL(PNK/LT GRN)
C250-10	IGN: Charging Light(LT GRN/RED)	IGN: Charging Light(LT GRN/RED)
C250-11	Signal: Charging Light(RED/LT GRN)	Signal: Charging Light(RED/LT GRN)
C250-12	Illumination GND(BLK)	Illumination GND(BLK)
C250-13	Signal: Fuel Gauge(YEL/WHT)	Signal: Fuel Gauge(YEL/WHT)
C250-14	Signal: Temp Gauge(RED/WHT)	Signal: Temp Gauge(RED/WHT)
C250-15	GND: Temp/Fuel/Anti-slosh(ORG/YEL)	GND: Temp/Fuel/Anti-slosh(ORG/YEL)
C250-16	IGN: Temp/Fuel/Anti-slosh(RED/YEL)	IGN: Temp/Fuel/Anti-slosh(RED/YEL)

**Pins to Swap when Swapping Clusters
between 96/97 & 94/95 Mustangs.**

Note: 96-98 Pin numbering scheme used for this chart

	96-97 Clusters	94-95 Clusters
Pin #	Description	Description
C251-1	Illumination GND(BLK)	Illumination GND(BLK)
C251-2	GND: Volt & Oil Gauges(BLK/LT BLU)	Signal: Oil Pressure(WHT/RED)
C251-3	Signal: Oil Pressure(WHT/RED)	GND: Volt & Oil Gauges(BLK/LT BLU)
C251-4	IGN: Volt & Oil Gauges(RED/YEL)	IGN: Volt & Oil Gauges(RED/YEL)
C251-5	Illumination Power(LT BLU/RED)	Signal: Seat Belt(DK GRN/LT GRN)
C251-6	Signal: Low Coolant(LT BLU)	Illumination Power(LT BLU/RED)
C251-7	GND: Tach & Low Coolant module(BLK/WHT)	Signal: Low Oil (not used in V6)(GRY)
C251-8	Signal: Tach(TAN/YEL)	IGN(RED/YEL)
C251-9	GND: Tach CYL SEL(BLK/YEL)	GND: Tach CYL SEL(BLK/YEL) (not used in V6)
C251-10	IGN(RED/YEL)	Signal: Tach(TAN/YEL)
C251-11	Signal: Low Oil(GRY)	GND: Tach(BLK/WHT)
C251-12	Signal: ABS(DK GRN)	Signal: ABS(DK GRN)
C251-13	Signal: Brake(PPL/YEL)	Signal: Brake(PPL/YEL)
C251-14	Signal: Air Bag(BLK/YEL)	Signal: Air Bag(BLK/YEL)
C251-15	Signal: Seat Belt(DK GRN/LT GRN)	Signal: Low Coolant(LT BLU) (not used in V6)
C251-16	Signal: Right Turn(WHT/LT BLU)	Signal: Right Turn(WHT/LT BLU)
C250-1	Signal: Left Turn(LT GRN/WHT)	Signal: Left Turn(LT GRN/WHT)
C250-2	Signal: High Beams(GRY/WHT)	Signal: High Beams(GRY/WHT)
C250-3	Signal: Theft(DK BLU/LT GRN)	Signal: Theft(DK BLU/LT GRN)
C250-4	BATT: Speedo & Theft(LT GRN/YEL)	BATT: Speedo & Theft(LT GRN/YEL)
C250-5	Signal: Speedo(GRY/BLK)	Signal: Speedo(GRY/BLK)
C250-6	GND: Speedo(PNK/ORN)	GND: Speedo(PNK/ORN)
C250-7	IGN: Speedo, OD Off, CEL(RED/YEL)	IGN: Speedo, OD Off, CEL(RED/YEL)
C250-8	Signal: OD Off(WHT/LT GRN)	Signal: OD Off(WHT/LT GRN)
C250-9	Signal: CEL(PNK/LT GRN)	Signal: CEL(PNK/LT GRN)
C250-10	IGN: Charging Light(LT GRN/RED)	IGN: Charging Light(LT GRN/RED)
C250-11	Signal: Charging Light(RED/LT GRN)	Signal: Charging Light(RED/LT GRN)
C250-12	Illumination GND(BLK)	Illumination GND(BLK)
C250-13	Signal: Fuel Gauge(YEL/WHT)	Signal: Fuel Gauge(YEL/WHT)
C250-14	Signal: Temp Gauge(RED/WHT)	Signal: Temp Gauge(RED/WHT)
C250-15	GND: Temp/Fuel/Anti-slosh(ORG/YEL)	GND: Temp/Fuel/Anti-slosh(ORG/YEL)
C250-16	IGN: Temp/Fuel/Anti-slosh(RED/YEL)	IGN: Temp/Fuel/Anti-slosh(RED/YEL)

95 EVTm (94-95 use the same pin numbering scheme.):



96 EVTm (96-98 Use the same pin numbering scheme.):

