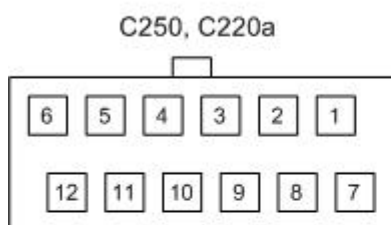


99-04 Mustang Cluster Connector Pinouts
 Mark Olson
 Accutach Company
 Rev1.0
 2017

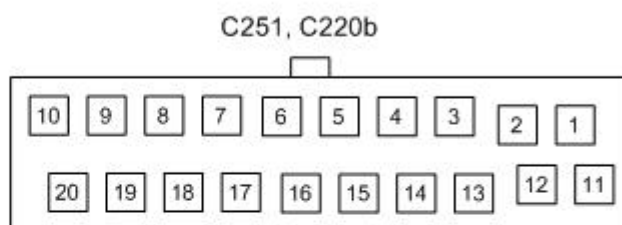
There are two connectors on the back of 1999 to 2004 instrument clusters, a 12 pin connector and a 20 pin connector. The 12 pin connector in the 1999-2000 clusters is called C250. It is called C220a in the newer clusters. The 20 pin connector in the 2000 clusters is called C251. It is called C220b in the newer clusters.

Here are the connector diagrams for the two connectors:

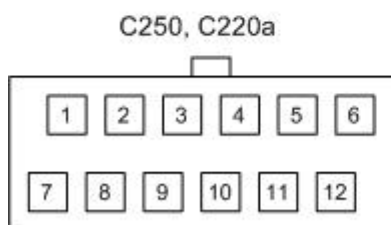
1999 to 2004 Mustang
 Instrument Cluster Connector Pinouts



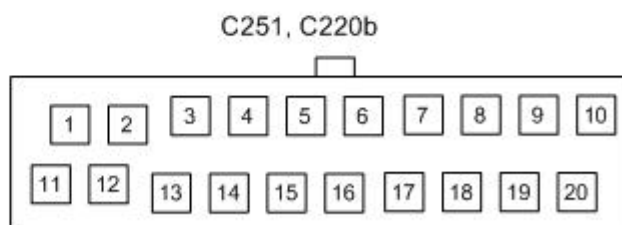
Female Pin Side,
 Harness Connector



Female Pin Side,
 Harness Connector



Male Pin Side,
 Cluster Connector



Male Pin Side,
 Cluster Connector

There are three pins that are different between the 1999-2000 instrument cluster connectors and the 2001-2004 instrument cluster connectors. The newer clusters do not have a Low Coolant indicator as the older clusters do. The 2001-2004 clusters read the rear window defroster pushbutton and controls the rear window defroster relay, with a timing delay. In 1999-2000 Mustangs the rear window defroster delay circuit and the relay function are built into the rear window defroster button.

Here is a comparison of the cluster pins, wire colors and functions (1999-2000 vs 2001-2004): (Yellow highlights pinout differences)

1999				2003			
C250	Signal #	Color	Description	C220a	Signal #	Color	Description
Pin 1	914	TN/OG	SCP Data Bus(+)	Pin 1	914	TN/OG	SCP Data Bus(+)
2	915	PK/LB	SCP Data Bus(-)	2	915	PK/LB	SCP Data Bus(-)
3	3	LG/WH	Left Turn Ind. (+)	3	3	LG/WH	Left Turn Ind. (+)
4	450	DG/LG	Seat Belt Ind.(+)	4	450	DG/LG	Seat Belt Ind.(+)
5	904	LG/RD	Charge Ind. Lamp	5	904	LG/RD	Charge Ind. Lamp
6	-	-	-	6	-	-	-
7	1216	GY/OG	PATS	7	1216	GY/OG	PATS RX Signal
8	1215	WH/LG	PATS	8	1215	WH/LG	PATS TX Signal
9	-	-	-	9	175	BK/YE	Rear Defrost on/off switch
10	-	-	-	10	727	YE/BK	Rear Defroster Relay Ctrl
11	-	-	-	11	-	-	-
12	608	BK/YE	Air Bag Ind.(-)	12	608	BK/YE	Air Bag Ind.(-)
C251				C220b			
Pin1	1205	BK	Ground	Pin1	1205	BK	Ground
2	12	LG/BK	Hi Beam Ind.(+)	2	12	LG/BK	Hi Beam Ind.(+)
3	2	WH/LB	Rt. Turn Ind.(+)	3	2	WH/LB	Rt. Turn Ind.(+)
4	19	LB/RD	Illum Lamp Feed	4	19	LB/RD	Illum Lamp Feed
5	-	-	-	5	-	-	-
6	-	-	-	6	-	-	-
7	-	-	-	7	-	-	-
8	960	BK/LB	Traction Ctrl Ind.	8	960	BK/LB	Traction Ctrl Ind.
9	959	GY	Traction Ctrl Switch	9	959	GY	Traction Ctrl Switch
10	729	RD/WH	Radio Memory	10	729	RD/WH	PWR (Hot at all times)
11	489	PK/BK	PWR (Hot in Run)	11	489	PK/BK	PWR (Hot in Run)
12	20	WH/LB	PWR(Hot in Start/Run)	12	20	WH/LB	PWR(Hot in Start/Run)
13	-	-	-	13	-	-	-
14	128	VT/YE	Brake Ind.(-)	14	128	VT/YE	Brake Ind.(-)
15	603	DG	ABS Ind.(-)	15	603	DG	ABS Ind.(-)
16	31	WH/RD	OP Gauge Feed	16	31	WH/RD	OP Gauge Feed
17	-	-	-	17	-	-	-
18	794	LB	Low Coolant Ind.	18	-	-	-
19	29	YE/WH	Fuel Guage & Slos	19	29	YE/WH	Fuel Guage & Slos
20	397	BK/WH	Ground	20	397	BK/WH	Ground