

## 2015 Ford Mustang (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	brown/red (50A)	+	BCM in passenger kick, black 22 pin plug (J7), pin 22
Second 12 Volts	blue/red (30A)	+	driver kick, gray 10 pin plug, pin 1
Ignition	white (for ignition sense only)	+	BCM in passenger kick, black 22 pin plug (J1), pin 16
Accessory	brown/yellow (for accessory sense only)	+	BCM in passenger kick, 36 pin plug (J3), pin 30
PTS 1	brown/violet	+	start stop button or BCM in passenger kick, black 52 pin plug (J2), pin 51
PTS 2	yellow/orange	-	start stop button or BCM in passenger kick, black 52 pin plug (J2), pin 5
CAN Bus High	blue (HS CAN)	data	Gateway Module on data link connector, black 24 pin plug, pin 20
CAN Bus Low	white (HS CAN)	data	Gateway Module on data link connector, black 24 pin plug, pin 19
CAN Bus High 2	gray (MS CAN)	data	Gateway Module on data link connector, black 24 pin plug, pin 23
CAN Bus Low 2	violet (MS CAN)	data	Gateway Module on data link connector, black 24 pin plug, pin 22
IMMO Data	(PATS antenna is under rubber cover in cupholder)		
Power Lock	blue (without memory)	-	driver kick or BCM in passenger kick, blue 52 pin plug (J5), pin 17
Power Unlock	yellow (without memory)	-	driver kick or BCM in passenger kick, blue 52 pin plug (J5), pin 4
Lock Motor	gray/brown	5 wire	driver kick or BCM in passenger kick, 36 pin plug (J3), pin 35
Driver Unlock Motor	blue/green	5 wire	driver kick or BCM in passenger kick, 36 pin plug (J3), pin 27
Passenger Unlock Motor	violet/gray	5 wire	BCM in passenger kick, 36 pin plug (J3), pin 32
Factory Alarm Arm	(arms on lock)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(proximity key and push-button)		

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Item	Wire Color	Polarity	Wire Location
Parking Lights (+)	violet/white (F); violet/white (R)	+	BCM in passenger kick, black 22 pin plug (J7), pin 3; 36 pin plug (J3), pin 12
Parking Lights (-)	gray	-	headlight switch, black 16 pin plug, pin 11
Parking Lights Interrupt	black/blue (see Tech Doc 1096)	cut	headlight switch, black 16 pin plug, pin 4
Hazards	brown	-	hazard switch or BCM in passenger kick, black 52 pin plug (J2), pin 19
Turn Signal (Left)	blue/green (F)	+	BCM in passenger kick, black 40 pin plug (J6), pin 39
Turn Signal (Right)	yellow/violet (F)	+	BCM in passenger kick, black 40 pin plug (J6), pin 38
Headlight	blue (headlight); black/blue (switch ground)	- and cut	headlight switch, black 16 pin plug, pins 12, 4
AutoLights	violet	cut	headlight switch, black 16 pin plug, pin 13
Reverse Light	green/brown	+	BCM in passenger kick, 36 pin plug (J3), pin 11
Left Front Door Trigger	green	- N.C.	driver kick or BCM in passenger kick, blue 52 pin plug (J5), pin 33
Right Front Door Trigger	white	- N.C.	BCM in passenger kick, blue 52 pin plug (J5), pin 21
Dome Light	gray/violet	+	BCM in passenger kick, 36 pin plug (J3), pin 13
Trunk/Hatch Pin	gray	- N.C.	BCM in passenger kick, blue 52 pin plug (J5), pin 34
Hood Pin	blue/orange	- N.C.	BCM in passenger kick, black 40 pin plug (J6), pin 14
Trunk/Hatch Release	brown/white	-	release switch or BCM in passenger kick, black 52 pin plug (J2), pin 1
Trunk Release Motor	brown/blue	5 wire	BCM in passenger kick, 36 pin plug (J3), pin 33
Tachometer	green/blue, gray/yellow, violet/gray, or yellow/orange (2.3L)	ac	driver side rear of engine, black 16 pin plug, pin 1, 4, 5, or 6
Clutch Pedal	blue/orange (bottom); green/violet (top)	-	inline harness near clutch switch, gray 4 pin plug, pins 1, 2

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Item	Wire Color	Polarity	Wire Location
Fuel Pump	yellow or yellow/violet	-	BCM in passenger kick, black 40 pin plug (J6), pin 26
Rear Defroster	white	- latched	climate control switch, black 26 pin plug, pin 7
Mirror Defroster	(same as rear defroster, without memory); (MS CAN, with memory)		
Left Front Heated Seat	(MS CAN)		
Right Front Heated Seat	(MS CAN)		
Speed Sense	brown/green (2.3L); yellow/orange (3.7L, 5.0L)	ac	PCM next to underhood fuse box, 95 pin plug, pin 12 or 26
Brake Wire	violet/white	+	brake switch or BCM in passenger kick, black 22 pin plug (J1), pin 1
Parking Brake	white/violet	-	parking brake switch or BCM in passenger kick, blue 52 pin plug (J5), pin 47
Horn Trigger	green/white	-	horn switch or BCM in passenger kick, black 52 pin plug (J2), pin 18
Wipers	(LIN bus)		
Left Front Window (Up/Down)	(motor is part of module); green/violet (global open)	-	driver kick or BCM B in right side of trunk, black 24 pin plug, pin 10
Right Front Window (Up/Down)	(motor is part of module); green/violet (global open)	-	passenger kick or BCM B in right side of trunk, black 24 pin plug, pin 22
Left Rear Window (Up/Down)	(motor is part of module) (convertible)		
Right Rear Window (Up/Down)	(motor is part of module) (convertible)		
Sun Roof (Open/Close)	green - blue/orange (convertible top) (function with ignition on only)	-	passenger kick, 40 pin plug, pins 19 - 18
Memory Seat 1	violet/white	-	memory set switch in driver door, black 8 pin plug, pin 5
Memory Seat 2	yellow/violet	-	memory set switch in driver door, black 8 pin plug, pin 6
Memory Seat 3	blue/orange	-	memory set switch in driver door, black 8 pin plug, pin 7
Radio 12V	red	+	radio, black 24 pin plug, pin 1

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Radio Ground	black/gray	-	radio, black 24 pin plug, pin 13
Radio Ignition	(HS CAN)		
Factory Amp Turn-on	blue/green	+	radio, black 24 pin plug, pin 7
Power Antenna	yellow/green	+	radio, black 24 pin plug, pin 2
Left Front Speaker (+/-)	white - white/brown or green - gray	+,-	radio, black 24 pin plug, pins 22 - 10
Right Front Speaker (+/-)	white/violet - white/orange or violet - yellow	+,-	radio, black 24 pin plug, pins 23 - 11
Left Rear Speaker (+/-)	white/green - brown/yellow or green/white - brown	+,-	radio, black 24 pin plug, pins 21 - 9
Right Rear Speaker (+/-)	brown/white - brown/blue or violet/white - blue	+,-	radio, black 24 pin plug, pins 24 - 12
Center Channel (+/-)	green - gray/yellow	+,-	amplifier above driver kick, 14 pin plug, pins 2 - 3
Subwoofer (+/-)	violet/green - green/white (preamp); violet/red (amp turn-on)	+,-; +	amplifier above driver kick, gray 16 pin plug, pins 1 - 2; 9
Aux. Audio Input Left (+/-)	blue - gray (SYNC audio)	+,-	radio, black 26 pin plug, pins 12 - 25
Aux. Audio Input Right (+/-)	violet - brown/white (SYNC audio)	+,-	radio, black 26 pin plug, pins 13 - 26
RSE Video (+/-)	white/green - brown/violet (rear view camera video) (without touchscreen)	+,-	front control/display module, black 12 pin plug, pins 6 - 12
Satellite Radio 12 Volts	(built into radio)		

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**What Fits**

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker			left front door
Left Front Tweeter			left front door; left front pillar
Right Front Speaker			right front door
Right Front Tweeter			right front door; right front pillar
Left Rear Speaker			left rear shelf or side panel
Right Rear Speaker			right rear shelf or side panel
Center Channel			top center of dash
Subwoofer			right side of trunk
Satellite Radio Tuner	(built into radio)		

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**Additional Wiring Notes**

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the woofer wires are white - white/brown at the amplifier above driver kick, gray 16 pin plug, pins 14 - 13. The midrange/tweeter wires are green/blue - gray/blue at the amplifier, 14 pin plug, pins 8 - 9.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are white/green - brown/yellow at the amplifier above driver kick, gray 16 pin plug, pins 16 - 15.
Power Lock	On models with memory, it is blue/green (-) at the door lock switch in driver door, black 8 pin plug, pin 2.
Power Unlock	On models with memory, it is yellow/purple (-) at the door lock switch in driver door, black 8 pin plug, pin 1.
Right Front Speaker (+/-)	On models with amplifier, the woofer wires are white/purple - white/orange at the amplifier above driver kick, gray 16 pin plug, pins 6 - 5. The midrange/tweeter wires are purple/gray - yellow/gray at the amplifier, 14 pin plug, pins 4 - 5.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are brown/white - brown/blue at the amplifier above driver kick, gray 16 pin plug, pins 8 - 7.
RSE Video (+/-)	On models with touchscreen, the rear view camera video wires are white/green - brown/purple at the SYNC Module/display, black 54 pin plug, pins 14 - 15.
Tachometer	On 3.7L or 5.0L models, the fuel injectors are green/blue, gray/yellow, purple/gray, yellow/orange, brown, green/white, gray/brown, or purple/orange at any fuel injector, black or gray 2 pin plug, pin 1.
Turn Signal (Left)	The rear turn signals are white/green, brown/purple, gray/brown at the BCM B in right side of trunk, black 24 pin plug, pins 2, 3, 4.
Turn Signal (Right)	The rear turn signals are gray/purple, brown, purple/orange at the BCM B in right side of trunk, black 24 pin plug, pins 14, 15, 16.