

## 2013 Ford Mustang



### Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red (80A)	+	SJB, black 1 pin plug (G), pin 1
<b>Second 12 Volts</b>	blue/red (20A)	+	ignition switch, black 7 pin plug, pin 4
<b>Starter</b>	blue/white	+	ignition switch, black 7 pin plug, pin 7
<b>Second Starter</b>	N/A		
<b>Ignition</b>	gray/purple	+	ignition switch, black 7 pin plug, pin 1
<b>Second Ignition</b>	N/A		
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	purple/green	+	ignition switch, black 7 pin plug, pin 6
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>	N/A		
<b>Key Sense</b>	blue/gray	+	ignition switch, black 7 pin plug, pin 5
<b>Data Bus</b>	purple/gray (TX), yellow/orange (RX)	data	PATS Transceiver, black 4 pin plug, pins 3 and 4
<b>Can Bus High</b>	gray/orange (MS CAN); white/blue (HS CAN)	data	data link connector, black 16 pin plug, pins 3 and 6
<b>Can Bus Low</b>	purple/orange (MS CAN); white (HS CAN)	data	data link connector, black 16 pin plug, pins 11 and 14
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	blue/green	-	under driver dash or SJB, gray 26 pin plug (C), pin 17
<b>Power Unlock</b>	yellow/purple	-	under driver dash or SJB, gray 26 pin plug (C), pin 4
<b>Lock Motor</b>	gray/brown	5 wire	driver kick or SJB, black 32 pin plug (D), pin 6
<b>Unlock Motor</b>	blue/green	5 wire	driver kick or SJB, black 32 pin plug (D), pin 28
<b>Disarm Defeat</b>	purple/gray	5 wire	passenger kick or SJB, black 32 pin plug (D), pin 27
<b>Parking Lights (+)</b>	purple/white	+	SJB, gray 13 pin plug (E), pin 6
<b>Parking Lights (-)</b>	gray	-	headlight switch or SJB, black 52 pin plug (B), pin 31
<b>Hazards</b>	brown/yellow	-	hazard switch or SJB, black 52 pin plug (B), pin 48
<b>Turn Signal (Left)</b>	blue/green (F)	+	SJB, black 26 pin plug (F), pin 21
<b>Turn Signal (Right)</b>	yellow/purple (F)	+	SJB, black 26 pin plug (F), pin 23

*Wiring Information (Continued)*

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	blue/white	-	headlight switch or SJB, black 52 pin plug (B), pin 30
<b>AutoLights</b>	purple/green (interrupt to turn off autolights)	-	headlight sw or SJB, black 52 pin plug (B), pin 50
<b>Reverse Light</b>	green/brown	+	BCM B, black 24 pin plug, pin 5
<b>Left Front Door Trigger</b>	green/purple	- N.C.	under driver dash or SJB, gray 26 pin plug (C), pin 14
<b>Right Front Door Trigger</b>	white	- N.C.	passenger kick or SJB, gray 26 pin plug (C), pin 2
<b>Left Rear Door Trigger</b>	N/A		
<b>Right Rear Door Trigger</b>	N/A		
<b>Dome Supervision</b>	gray/purple	+	SJB, gray 14 pin plug (A), pin 9
<b>Trunk/Hatch Pin</b>	gray/orange	- N.C.	SJB, gray 26 pin plug (C), pin 16
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	blue/orange	- N.C.	hood switch or SJB, black 26 pin plug (F), pin 10
<b>Trunk Hatch/Release</b>	brn/yel (coupe), brn/yel or brn/pur (convertible)	-	release switch or SJB, gray 26 pin plug (C), pin 20
<b>Trunk Release Motor</b>	brown/blue	+	SJB, black 32 pin plug (D), pin 31
<b>Fuel Door Release</b>	N/A		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	yellow/gray (driver door key lock)	-	driver kick or SJB, gray 26 pin plug (C), pin 9
<b>Factory Alarm Disarm</b>	green/purple (driver door key unlock)	-	driver kick or SJB, gray 26 pin plug (C), pin 8
<b>Disarm No Unlock</b>	see factory alarm disarm		
<b>Trunk Alarm Shunt</b>	N/A		
<b>Tachometer</b>	gn/bu, gy/ye, pu/gy, ye/og, bn, gn/wh, gy/bn, pu/o	ac	any fuel injector, black (V6) or gray (V8) 2 pin plug, pin 1
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>	N/A		
<b>Clutch Pedal</b>	black/yellow (input), blue/orange (output)	- N.O.	clutch switch, black 2 pin plug, pins 2 and 1
<b>Fuel Pump</b>	purple/green (x2 on 5.8L)	+	driver kick, gray 8 pin plug, pins 6 and 7
<b>Rear Defroster</b>	white/orange	- latched	HVAC Module, gray 26 pin plug, pin 2
<b>Mirror Defroster</b>	same as rear defroster		
<b>Left Front Heated Seat</b>	white/blue	- latched	HVAC Module, gray 26 pin plug, pin 9
<b>Right Front Heated Seat</b>	gray/yellow	- latched	HVAC Module, gray 26 pin plug, pin 10

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	brown/green	ac	PCM, black 50 pin plug, pin 25 (3.7L), 14 (5.0L), or 36 (5.8L)
Brake Wire	purple/white	+	brake switch or SJB, black 52 pin plug (B), pin 40
Parking Brake	white/purple	-	parking brake switch or SJB, gray 26 pin plug (C), pin 1
Horn Trigger	blue/white	-	horn switch or SJB, black 52 pin plug (B), pin 41
Wipers	blue/orange (L), purple/orange (H), blk/pur (grnd)	-	wiper switch, black 16 pin plug, pins 16, 9, and 15
Left Front Window (Up/Down)	(motor is part of module)		
Right Front Window (Up/Down)	(motor is part of module)		
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)	blu/org - grn/pur (function w/ign on only) (conv)	-	passenger kick or BCM B, gray 26 pin plug, pins 18 and 5
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	white/red	+	radio, gray 24 pin plug, pin 1
Radio Ground	black/gray	-	radio, gray 24 pin plug, pin 13
Radio Ignition	(MS CAN)		
Radio Illumination	(MS CAN)		
Factory Amp Turn-on	blue/green (audio amp); gray/purple (rear sub amp)	+	radio, gray 24 pin plug, pin 7; gray 8 pin plug, pin 4 or 8
Power Antenna	yellow/green	+	radio, gray 24 pin plug, pin 5
Left Front Speaker (+/-)	white - white/brown or green - gray	+, -	radio, gray 24 pin plug, pins 8 and 21
Right Front Speaker (+/-)	white/purple - white/orange or purple - yellow	+, -	radio, gray 24 pin plug, pins 11 and 12
Left Rear Speaker (+/-)	white/green - brown/yellow or green/brn - gray/brn	+, -	radio, gray 24 pin plug, pins 9 and 22
Right Rear Speaker (+/-)	brown/white - brown/blue or purple/brn - yel/blue	+, -	radio, gray 24 pin plug, pins 10 and 23
Center Channel (+/-)	N/A		
Subwoofer (+/-)	brown/blue - white/blue (rear sub preamp)	+, -	radio, gray 8 pin plug, pins 1 and 2, or 5 and 6
Aux. Audio Input Left (+/-)	blue - yellow/green (without SYNC)	+, -	radio, gray 16 pin plug, pins 7 and 8
Aux. Audio Input Right (+/-)	blue/green - white/green (without SYNC)	+, -	radio, gray 16 pin plug, pins 6 and 14
RSE Video (+/-)	brown/purple - white/green (navigation video)	+, -	radio, gray 10 pin plug, pins 3 and 8

DirectWire Vehicle Information - 2/14/2014 5:22:47 AM			
RSE Audio Left (+/-)	blue/gray/orange (SYNC audio)	+, -	radio, gray 16 pin plug, pins 1 and 2
RSE Audio Right (+/-)	purple/green - brown/white (SYNC audio)	+, -	radio, gray 16 pin plug, pins 9 and 10
Satellite Radio 12 Volts	N/A		
Satellite Radio Ground	N/A		
Satellite Radio Ignition	N/A		
Satellite Radio Antenna	N/A		
Satellite Audio Left (+/-)	N/A		
Satellite Audio Right (+/-)	N/A		

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*What Fits*

Item	Size	Depth	Location
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>	6 x 8	4	left front door
<b>Left Front Tweeter</b>	N/A		
<b>Right Front Speaker</b>	6 x 8	4	right front door
<b>Right Front Tweeter</b>	N/A		
<b>Left Rear Speaker</b>	6 x 8	6	left rear deck or quarter panel
<b>Left Rear Tweeter</b>	N/A		
<b>Right Rear Speaker</b>	6 x 8	6	right rear deck or quarter panel
<b>Right Rear Tweeter</b>	N/A		
<b>Center Channel</b>	N/A		
<b>Subwoofer</b>	8	4	each front door (F), right side of trunk (R)
<b>Left Front Headrest</b>			
<b>Right Front Headrest</b>			
<b>Left Right Headrest</b>			
<b>Right Rear Headrest</b>			
<b>Satellite Radio Tuner</b>	(built into radio)		

*Additional Wiring Notes*

Item	Note
<b>Left Front Speaker (+/-)</b>	On vehicles with amplifier, the speaker wires are white - white/brown at the amplifier under driver dash, 22 pin plug, pins 2 and 13. The subwoofer wires are brown - blue/brown (1); gray/yellow - purple/white (2) at the amplifier, 22 pin plug, pins 4 and 15; 5 and 16.
<b>Power Lock</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Power Unlock</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Lock Motor</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Driver Unlock Motor</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Passenger Unlock Motor</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Left Front Door Trigger</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Right Front Door Trigger</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Factory Alarm Arm</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Factory Alarm Disarm</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Parking Lights (+)</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Parking Lights (-)</b>	The SJB (Smart Junction Box) is in the passenger kick. May need to interrupt the headlight switch ground when triggering this wire. It is black/purple at the headlight switch, gray 10 pin plug, pin 3. See Tech Doc 1096 for wiring information.
<b>Headlight</b>	The SJB (Smart Junction Box) is in the passenger kick. May need to interrupt the headlight switch ground when triggering this wire. It is black/purple at the headlight switch, gray 10 pin plug, pin 3.
<b>AutoLights</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Hazards</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Brake Wire</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Turn Signal (Left)</b>	The SJB (Smart Junction Box) is in the passenger kick. The rear turn signals are gray/brown, brown/purple, and white/green at the BCM B, black 24 pin plug, pins 4, 3, and 2. The BCM B (Body Control Module B) is in the right side of the cargo compartment.
<b>Turn Signal (Right)</b>	The SJB (Smart Junction Box) is in the passenger kick. The rear turn signals are purple/orange, brown, and gray/purple at the BCM B, black 24 pin plug, pins 16, 15, and 14. The BCM B (Body Control Module B) is in the right side of the cargo compartment.
<b>Speed Sense</b>	The PCM (Powertrain Control Module) is in the engine compartment, next to the underhood fuse box.
<b>Sun Roof (Open/Close)</b>	The BCM B (Body Control Module B) is in the right side of the cargo compartment.
<b>Right Front Speaker (+/-)</b>	On vehicles with amplifier, the speaker wires are white/purple - white/orange at the amplifier under driver dash, 22 pin plug, pins 6 and 17. The subwoofer wires are white/orange - gray/blue (1); white/purple - gray/orange (2) at the amplifier, 22 pin plug, pins 8 and 19; 9 and 20.
<b>Left Rear Speaker (+/-)</b>	On vehicles with amplifier, the speaker wires are white/green - brown/yellow at the amplifier under driver dash, 22 pin plug, pins 3 and 14.
<b>Right Rear Speaker (+/-)</b>	On vehicles with amplifier, the speaker wires are brown/white - brown/blue at the amplifier under driver dash, 22 pin plug, pins 7 and 18.
<b>12 Volts</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Data Bus</b>	The PATS (Passive Anti-Theft System) Transceiver is around the ignition switch. The PATS ignition is blue/brown in pin 1, and ground is black/purple in pin 2.
<b>Parking Brake</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Horn Trigger</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Reverse Light</b>	The BCM B (Body Control Module B) is in the right side of the cargo compartment. On vehicles with auto-dimming rearview mirror, can also use gray/brown (+) in the passenger kick, harness to rear.
<b>Dome Supervision</b>	The SJB (Smart Junction Box) is in the passenger kick.
<b>Hood Pin</b>	The SJB (Smart Junction Box) is in the passenger kick.