2012 Ford Mustang

Wiring Information

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

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	blue/white	-	headlight switch or SJB, black 52 pin plug (B), pin 30
AutoLights	purple/green (interrupt to turn off autolights)	-	headlight sw or SJB, black 52 pin plug (B), pin 50
Reverse Light	green/brown	+	BCM B, black 24 pin plug, pin 5
Left Front Door Trigger	green/purple	- N.C.	under driver dash or SJB, gray 26 pin plug (C), pin 14
Right Front Door Trigger	white	- N.C.	passenger kick or SJB, gray 26 pin plug (C), pin 2
Left Rear Door Trigger	N/A		
Right Rear Door Trigger	N/A		
Dome Supervision	gray/purple	+	SJB, gray 14 pin plug (A), pin 9
Trunk/Hatch Pin	gray/orange	- N.C.	SJB, gray 26 pin plug (C), pin 16
Rear Glass Pin	N/A		
Hood Pin	blue/orange	- N.C.	hood switch or SJB, black 26 pin plug (F), pin 10
Trunk Hatch/Release	brn/yel (coupe), brn/yel or brn/pur (convertible)	-	release switch or SJB, gray 26 pin plug (C), pin 20
Trunk Release Motor	brown/blue	+	SJB, black 32 pin plug (D), pin 31
Fuel Door Release	N/A		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	yellow/gray (driver door key lock)	-	driver kick or SJB, gray 26 pin plug (C), pin 9
Factory Alarm Disarm	green/purple (driver door key unlock)	-	driver kick or SJB, gray 26 pin plug (C), pin 8
Disarm No Unlock	see factory alarm disarm		
Trunk Alarm Shunt	N/A		
Tachometer	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
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	black/yellow (input), blue/orange (output)	- N.O.	clutch switch, black 2 pin plug, pins 2 and 1
Fuel Pump	purple/green (x2 on 5.4L)	+	driver kick, gray 8 pin plug, pins 6 and 7
Rear Defroster	white/orange	- latched	HVAC Module, gray 26 pin plug, pin 2
Mirror Defroster	N/A		
Left Front Heated Seat	white/blue	- latched	HVAC Module, gray 26 pin plug, pin 9
Right Front Heated Seat	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 (5.4L)
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	+	radio, gray 24 pin plug, pin 7
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 (+/-)	pur/grn - grn/wht (F); brn/blue - wht/blue (R)	+,-	radio, gray 8 pin plug, pins 1 and 2; 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
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		

What Fits

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

Additional Wiring Notes

Item	Note
Power Lock	The SJB (Smart Junction Box) is in the passenger kick.
Power Unlock	The SJB (Smart Junction Box) is in the passenger kick.
Lock Motor	The SJB (Smart Junction Box) is in the passenger kick.
Driver Unlock Motor	The SJB (Smart Junction Box) is in the passenger kick.
Passenger Unlock Motor	The SJB (Smart Junction Box) is in the passenger kick.
Left Front Door Trigger	The SJB (Smart Junction Box) is in the passenger kick.
Right Front Door Trigger	The SJB (Smart Junction Box) is in the passenger kick.
Factory Alarm Arm	The SJB (Smart Junction Box) is in the passenger kick.
Factory Alarm Disarm	The SJB (Smart Junction Box) is in the passenger kick.
Parking Lights (+)	The SJB (Smart Junction Box) is in the passenger kick.
Parking Lights (-)	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.
Headlight	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.
AutoLights	The SJB (Smart Junction Box) is in the passenger kick.
Hazards	The SJB (Smart Junction Box) is in the passenger kick.
Brake Wire	The SJB (Smart Junction Box) is in the passenger kick.
Turn Signal (Left)	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.
Turn Signal (Right)	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.
Speed Sense	The PCM (Powertrain Control Module) is in the engine compartment, next to the underhood fuse box.
Sun Roof (Open/Close)	The BCM B (Body Control Module B) is in the right side of the cargo compartment.
Left Front Speaker (+/-)	If equipped, the amplifier is in the right side of the cargo compartment. On vehicles with amplifier, the speaker wires are white - white/brown at the amplifier, gray 14 pin plug, pins 13 and 6.
Right Front Speaker (+/-)	If equipped, the amplifier is in the right side of the cargo compartment. On vehicles with amplifier, the speaker wires are white/purple - white/orange at the amplifier, gray 14 pin plug, pins 11 and 4.
Left Rear Speaker (+/-)	If equipped, the amplifier is in the right side of the cargo compartment. On vehicles with amplifier, the speaker wires are white/green - brown/yellow at the amplifier, gray 14 pin plug, pins 12 and 5.
Right Rear Speaker (+/-)	If equipped, the amplifier is in the right side of the cargo compartment. On vehicles with amplifier, the speaker wires are brown/white - brown/blue at the amplifier, gray 14 pin plug, pins 10 and 3.
12 Volts	The SJB (Smart Junction Box) is in the passenger kick.
Data Bus	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.
Parking Brake	The SJB (Smart Junction Box) is in the passenger kick.
Horn Trigger	The SJB (Smart Junction Box) is in the passenger kick.
Reverse Light	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.
Dome Supervision	The SJB (Smart Junction Box) is in the passenger kick.
Hood Pin	The SJB (Smart Junction Box) is in the passenger kick.
Trunk/Hatch Pin	The SJB (Smart Junction Box) is in the passenger kick.
Trunk Hatch/Release	The SJB (Smart Junction Box) is in the passenger kick.