2017 Ford Focus(SmartKey) - Requested by: ampire.de

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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (50A)	+	BCM behind glove box, green 2 pin plug (G), pin 2
Ground	(chassis ground)		
Starter	blue/white (for starter kill only)	+	Underhood Fuse Box, black 41 pin plug, pin 41
Ignition	blue (for ignition sense only)	+	BCM behind glove box, green 20 pin plug (D), pin 9
Accessory	blue (for accessory sense only)	-	BCM behind glove box, brown 60 pin plug (B), pin 41
PTS 1	red	+	BCM behind glove box, blue 60 pin plug (C), pin 28
PTS 2	green/brown	+	BCM behind glove box, blue 60 pin plug (C), pin 22
CAN Bus High	white/blue (HS CAN)	data	BCM behind glove box, blue 60 pin plug (C), pin 7
CAN Bus Low	white (HS CAN)	data	BCM behind glove box, blue 60 pin plug (C), pin 8
CAN Bus High 2	gray/orange (MS CAN)	data	BCM behind glove box, green 42 pin plug (A), pin 41
CAN Bus Low 2	violet/orange (MS CAN)	data	BCM behind glove box, green 42 pin plug (A), pin 40
CAN Bus High 3	white/blue (HS CAN)	data	Junction Connector behind glove box, white 40 pin plug, pin 16
CAN Bus Low 3	white (HS CAN)	data	Junction Connector behind glove box, white 40 pin plug, pin 15
OBD 12 Volts	yellow/red (7.5A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	black/white	-	OBD-Data Link Connector, white 16 pin plug, pin 4
IMMO Antenna	(immobilizer antenna is in center console under tray)		
Power Lock	gray/yellow or brown	-	BCM behind glove box, brown 60 pin plug (B), pin 36
Power Unlock	violet/gray or brown/green	-	BCM behind glove box, blue 60 pin plug (C), pin 26

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Item	Wire Color	Polarity	Wire Location
Lock Motor	gray/brown (with one-touch down only power wndw)	5 wire	BCM behind glove box, brown 20 pin plug (E), pin 1
Driver Unlock Motor	white/orange (with one-touch down only power wndw)	5 wire	BCM behind glove box, brown 20 pin plug (E), pin 10
Passenger Unlock Motor	white/orange (with one-touch down only power wndw)	5 wire	BCM behind glove box, brown 20 pin plug (E), pin 8
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(proximity key and push-button)		
Parking Lights	green/orange or yellow/blue (L); brown/yellow (R)	+	BCM behind glove box, green 42 pin plug (A), pins 1, 26
Parking Lights -	(LIN bus)		
Hazards	brown/yellow	-	BCM behind glove box, blue 60 pin plug (C), pin 27
Turn Signal (Left)	blue/green (F); gray/orange or green/orange (R)	+	BCM behind glove box, green 42 pin plug (A), pin 24; brown 60 pin plug (B), pin 6
Turn Signal (Right)	yellow/violet (F); green/orange (R)	+	BCM behind glove box, green 42 pin plug (A), pin 22; brown 60 pin plug (B), pin 3
Headlight	brown/blue (L); blue/green (R)	+	BCM behind glove box, green 20 pin plug (D), pins 2, 1
AutoLights	(LIN bus)		
Reverse Light	green/brown	+	BCM behind glove box, brown 20 pin plug (E), pin 19
Left Front Door Trigger	green/violet	- N.C.	BCM behind glove box, brown 60 pin plug (B), pin 45
Right Front Door Trigger	white	- N.C.	BCM behind glove box, brown 60 pin plug (B), pin 46
Left Rear Door Trigger	green	- N.C.	BCM behind glove box, brown 60 pin plug (B), pin 44
Right Rear Door Trigger	yellow	- N.C.	BCM behind glove box, brown 60 pin plug (B), pin 25
Dome Light	white/brown or gray/violet	-	BCM behind glove box, gray 20 pin plug (H), pin 11

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Item	Wire Color	Polarity	Wire Location
Trunk/Hatch Pin	yellow/orange	- N.C.	BCM behind glove box, brown 60 pin plug (B), pin 47
Hood Pin	blue/orange	- N.C.	BCM behind glove box, green 42 pin plug (A), pin 15
Trunk/Hatch Release	brown (rear handle switch)	-	BCM behind glove box, brown 60 pin plug (B), pin 49
Trunk Release Motor	yellow/violet	+	BCM behind glove box, brown 20 pin plug (E), pin 12
Tachometer	green/blue, gray/yel, violet/gray, or yellow/org	ac	front of engine, black 12 pin plug, pin 9, 10, 11, 12 or 16 pin plug, pin 1, 4, 5, 6
Clutch Pedal	blue/orange	-	BCM behind glove box, green 42 pin plug (A), pin 12
Clutch Pedal 2	green/violet	-	clutch switch, black 4 pin plug, pin 2
Fuel Pump	yellow/blue	+	BCM behind glove box, brown 20 pin plug (E), pin 9
Rear Defroster	green/orange (manual AC); brown/blue (automatic AC)	-; - latched	BCM behind glove box, blue 60 pin plug (C), pin 45; brown 60 pin plug (B), pin 22
Mirror Defroster	(same as rear defrost-manual AC); (MS CAN-auto AC)		
Left Front Heated Seat	(MS CAN)		
Right Front Heated Seat	(MS CAN)		
Speed Sense	(wheel speed sensor)		
Brake Wire	violet/white or green/red	+	BCM behind glove box, green 42 pin plug (A), pin 16
Brake Pressure Switch	violet/white	interrupt	brake switch, white 4 pin plug, pin 3
Parking Brake	white/violet	-	BCM behind glove box, blue 60 pin plug (C), pin 25
Horn Trigger	violet/green	-	BCM behind glove box, green 42 pin plug (A), pin 31
Wipers	blue/green	-	BCM behind glove box, blue 60 pin plug (C), pin 47

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Item	Wire Color	Polarity	Wire Location
Left Front Window (Up/Down)	bn/gn-wh/pu or bu/wh-pu/gn (w/one touch down only)	A	master window switch, gray 10 pin plug, pins 8 - 6 or gray 8 pin plug, pins 3 - 4
Right Front Window (Up/Down)	white/violet - brown/green (without one-touch)	A	driver kick, harness to rear
Left Rear Window (Up/Down)	blue/orange - yellow (without one-touch)	A	driver kick, harness to rear
Right Rear Window (Up/Down)	gray/violet - brown/green (without one-touch)	A	driver kick, harness to rear
Sun Roof (Open/Close)	yellow/orange - violet/brown (funct w/ign on only)	-	overhead console switch, black 16 pin plug, pins 12 - 11
Radio 12V	brown/red	+	radio, black 24 pin plug, pin 1
Radio Ground	black	-	radio, black 24 pin plug, pin 13
Radio Ignition	(Infotainment CAN)		
Factory Amp Turn-on	yellow/violet	+	radio, black 26 pin plug, pin 18
Power Antenna	yellow/orange	+	radio, black 24 pin plug, pin 2
Left Front Speaker (+/-)	white - white/brown	+,-	radio, black 24 pin plug, pins 22 - 10
Right Front Speaker (+/-)	white/violet - white/orange	+,-	radio, black 24 pin plug, pins 23 - 11
Left Rear Speaker (+/-)	white/green or brown/green - brown/yellow	+,-	radio, black 24 pin plug, pins 21 - 9
Right Rear Speaker (+/-)	brown/white - brown/blue	+,-	radio, black 24 pin plug, pins 24 - 12
Center Channel (+/-)	blue - violet/green	+,-	radio, black 24 pin plug, pins 20 - 8
Subwoofer (+/-)	violet - yellow (1); green/violet - gray (2)	+,-	amplifier in LF cargo floor, blue 16 pin plug, pins 1 - 9; 2 - 10
Aux. Audio Input Left (+/-)	green - gray or blue - gray/orange (SYNC audio)	+,-	radio, black 26 pin plug, pins 12 - 25
Aux. Audio Input Right (+/-)	violet - yellow or pur/grn - brn/wht (SYNC audio)	+,-	radio, black 26 pin plug, pins 13 - 26
Rearview Camera Video	blue - green	+,-	front control/display, black 12 pin plug, pins 6 - 12 or SYNC Module/display, black 54 pin plug, pins 14 - 15
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	6 x 8	3.8	left front door
Left Front Tweeter			left front door
Right Front Speaker	6 x 8	3.8	right front door
Right Front Tweeter			right front door
Left Rear Speaker	6 x 8	4 - 5	left rear door
Left Rear Tweeter			left rear door
Right Rear Speaker	6 x 8	4 - 5	right rear door
Right Rear Tweeter			right rear door
Center Channel			top center of dash
Subwoofer			right side of cargo compartment
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Center Channel (+/-)	On models with amplifiier, the speaker wires are green - gray/yellow at the amplifier in LF cargo floor, gray 16 pin plug, pins 1 - 9.
Clutch Pedal	On some models, to avoid a check engine light, there is also a clutch master cylinder push rod sensor that needs to be triggered. The wires are white (sensor); yellow/blue (5V ref) at the sensor, black 4 pin plug, pins 2, 3. You need to relay isolate the white wire and trigger the module side with an 2500 ohm resistor to the yellow/blue wire.
Passenger Unlock Motor	On models with one-touch up/down power windows, it is black at the Passenger Door Module, gray 22 pin plug, pin 4.
Driver Unlock Motor	On models with one-touch up/down power windows, it is black at the Driver Door Module, black 22 pin plug, pin 4.
Left Front Speaker (+/-)	On models with amplifiier, the speaker wires are white - white/brown (woofer); purple/orange - yellow/orange (tweeter) at the amplifier in LF cargo floor, gray 16 pin plug, pins 2 - 10; 3 - 11.
Left Front Window (Up/Down)	On models with one-touch up/down power windows, they are blue - green at the Driver Door Module, black 22 pin plug, pins 1 - 12.
Lock Motor	On models with one-touch up/down power windows, it is black at the Driver Door Module, black 22 pin plug, pin 3.
Left Rear Speaker (+/-)	On models with amplifiier, the speaker wires are white/green - brown/yellow at the amplifier in LF cargo floor, gray 16 pin plug, pins 4 - 12.
Left Rear Window (Up/Down)	On models with one-touch up/down power windows, they are gray/brown - purple/orange at the Left Rear Door Module, black 22 pin plug, pins 12 - 1.
Right Front Speaker (+/-)	On models with amplifiier, the speaker wires are white/purple - white/orange (woofer); green/orange - gray/orange (tweeter) at the amplifier in LF cargo floor, gray 16 pin plug, pins 6 - 14; 7 - 15.
Right Front Window (Up/Down)	On models with one-touch up/down power windows, they are white - gray/yellow at the Passenger Door Module, gray 22 pin plug, pins 1 - 12.
Right Rear Speaker (+/-)	On models with amplifiier, the speaker wires are brown/white - brown/blue at the amplifier in LF cargo floor, gray 16 pin plug, pins 8 - 16.
Right Rear Window (Up/Down)	On models with one-touch up/down power windows, they are purple/white - yellow/orange at the Right Rear Door Module, black 22 pin plug, pins 12 - 1.
Tachometer	On 1.0L models, the fuel injectors are green/blue, gray/yellow, or purple/gray at the rear of the engine, 6 pin plug, pin 1, 3, or 5.