2017 Audi Q7 (Smart Key) - North America

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/gray (35A)	+	VESCM above driver kick, black/white 73 pin plug (C), pin 1
Starter	red/black (for starter kill only)	+	starter relay in engine compartment passenger side rear
Ignition	black (for ignition sense only)	+	VESCM above driver kick, black 73 pin plug (B), pin 19
PTS 1	yellow/gray	-	driver kick, blue 17 pin plug, pin 10
PTS 2	white/gray	-	driver kick, blue 17 pin plug, pin 11
PTS 3	blue/yellow	-	driver kick, blue 17 pin plug, pin 12
CAN Bus High	blue/green	data	data link connector, white 16 pin plug, pin 6
CAN Bus Low	purple/brown	data	data link connector, white 16 pin plug, pin 14
CAN Bus High 2	green	data	VESCM above driver kick, black/white 73 pin plug (C), pin 40
CAN Bus Low 2	orange/brown	data	VESCM above driver kick, black/white 73 pin plug (C), pin 41
IMMO Antenna	white	RF	rear of center console, below rear air vents, black 6 pin plug, pin 1
Power Lock	purple/red	- resistor	Driver Door Module, blue 32 pin plug, pin 28
Power Unlock	(same as power lock)	-	
Lock Motor	blue/brown	5 wire	Driver Door Module, white 20 pin plug, pin 13
Driver Unlock Motor	brown/green	5 wire	Driver Door Module, white 20 pin plug, pin 11
Passenger Unlock Motor	brown/green	5 wire	Passenger Door Module, white 20 pin plug, pin 11
Factory Alarm Arm	blue/white (driver door key lock)	-	Driver Door Module, white 20 pin plug, pin 1
Factory Alarm Disarm	(same as factory alarm arm)	- resistor	
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	(fronts are CAN bus); gray (LR); gray or gray/black (RR)	+	Comfort Module in left rear quarter panel, brown 17 pin plug, pin 4; black 17 pin plug, pin 7
Parking Lights (-)	(LIN bus)		

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Item	Wire Color	Polarity	Wire Location
Hazards	(LIN bus)		
Turn Signal (Left)	(front is CAN bus); white/gray (R)	+	Comfort Module in left rear quarter panel, brown 17 pin plug, pin 14
Turn Signal (Right)	(front is CAN bus); gray/black (R)	+	Comfort Module in left rear quarter panel, black 17 pin plug, pin 5
Headlight	yellow/black (L); yellow/black (R)	+	VESCM above driver kick, black 73 pin plug (B), pin 64; black/white 73 pin plug (C), pin 64
AutoLights	(LIN bus)		
Reverse Light	black/blue	+	Comfort Module in left rear quarter panel, black 17 pin plug, pin 3
Left Front Door Trigger	brown/yellow	-	Driver Door Module, white 20 pin plug, pin 5
Right Front Door Trigger	brown/gray	-	Passenger Door Module, white 20 pin plug, pin 5
Left Rear Door Trigger	gray/purple	-	Left Rear Door Module, white 20 pin plug, pin 5
Right Rear Door Trigger	gray/purple	-	Right Rear Door Module, white 20 pin plug, pin 5
Dome Light	(LIN bus)		
Trunk/Hatch Pin	black	-	Comfort Module in left rear quarter panel, blue 32 pin plug, pin 15
Hood Pin	green/red	-	VESCM above driver kick, black 73 pin plug (B), pin 31
Trunk/Hatch Release	red/green (release switch); brown/yellow (rear handle switch)	-	Driver Door Module, blue 32 pin plug, pin 23; Comfort Module in left rear quarter panel, blue 32 pin plug, pin 30
Trunk Release Motor	green/red	5 wire	Comfort Module in left rear quarter panel, black 20 pin plug, pin 11
Fuel Door Release	blue/red - blue (fuel door lock/unlock motor)	5 wire	Comfort Module in left rear quarter panel, black 32 pin plug, pins 31, 30
Tachometer	gray (engine speed sensor)	ac	ECM in engine compartment driver side rear, black 105 pin plug, pin 70
Fuel Pump	black/white	+	brown fuse carrier (ST1) in driver kick, fuse 16

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Item	Wire Color	Polarity	Wire Location
Rear Defroster	green/purple	+ latched	Comfort Module in left rear quarter panel, black 32 pin plug, pin 32
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	(CAN bus)		
Right Front Heated Seat	(CAN bus)		
Speed Sense	(wheel speed sensor)		
Brake Wire	black/red	+	driver kick, main harness on firewall
Parking Brake	green/purple (electric parking brake indicator)	-	driver kick, white 17 pin plug, pin 14
Horn Trigger	purple/red	5 wire	VESCM above driver kick, black/white 73 pin plug (C), pin 5
Wipers	(LIN bus)		
Left Front Window (Up/Down)	(use factory alarm arm/disarm)		
Right Front Window (Up/Down)	(see left front window)		
Left Rear Window (Up/Down)	(see left front window)		
Right Rear Window (Up/Down)	(see left front window)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	gray	- resistor	Driver Door Module, blue 32 pin plug, pin 19
Memory Seat 2	(same as memory seat 1)	- resistor	
Radio 12V	red/yellow	+	radio in glove box, black 8 pin plug, pin 8
Radio Ground	brown	-	radio in glove box, black 8 pin plug, pin 7
Radio Ignition	(infotainment CAN)		
Factory Amp Turn-on	(MOST bus)		
Left Front Speaker (+/-)	red/yellow - brown/yellow (wfr); gray - gray/black (twtr)	+,-	radio in glove box, brown 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	red - brown/red (wfr); white - white/black (twtr)	+,-	radio in glove box, brown 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	purple - brown/purple	+,-	radio in glove box, brown 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	red/green - brown/green	+,-	radio in glove box, brown 8 pin plug, pins 1 - 5
Center Channel (+/-)	red/blue - brown/blue	+,-	radio in glove box, black 8 pin plug, pins 2 - 6

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Item	Wire Color	Polarity	Wire Location
Subwoofer (+/-)	white/red - brown/red	+,-	radio in glove box, black 8 pin plug, pins 1 - 5
Aux. Audio Input Left (+/-)	green - gray		radio in glove box, green 12 pin plug, pins 7 - 1
Aux. Audio Input Right (+/-)	yellow - gray		radio in glove box, green 12 pin plug, pins 2 - 1
RSE Video (+/-)	white - black (rearview camera video)	+,-	radio in glove box, blue 12 pin plug, pins 6 - 12
RSE Audio Left (+/-)	(MOST bus)		
RSE Audio Right (+/-)	(MOST bus)		
Satellite Radio 12 Volts	(built into radio)		

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What Fits

Item	Size	Depth	Location
Headunit	irregular		in glove box
Left Front Speaker			left front door
Left Front Tweeter			left front dash; left front pillar
Right Front Speaker			right front door
Right Front Tweeter			right front dash; right front pillar
Left Rear Speaker			left rear door
Left Rear Tweeter			left B pillar; left rear roof
Right Rear Speaker			right rear door
Right Rear Tweeter			right B pillar; right rear roof
Center Channel			top center of dash
Subwoofer			left rear quarter panel
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Center Channel (+/-)	On models with amplifier the speaker wires are red/yellow - brown/yellow at the amplifier in left rear cargo floor, black 38 pin plug, pins 31 - 32.
Left Front Speaker (+/-)	On models with amplifier the speaker wires are red/yellow - brown/yellow (woofer); red/blue - brown/blue (midrange); gray/yellow - gray/blue (tweeter); blue - blue/black (tweeter 2) at the amplifier in left rear cargo floor, black 38 pin plug, pins 12 - 11; 35 - 36; 38 - 37; 17 - 5.
Left Rear Speaker (+/-)	On models with amplifier the speaker wires are purple - brown/purple (woofer/tweeter); blue/red - gray/red (surround) at the amplifier in left rear cargo floor, black 38 pin plug, pins 19 - 7; 10 - 22.
Right Front Speaker (+/-)	On models with amplifier the speaker wires are purple - purple/black (woofer); purple - purple/black (midrange); gray - gray/black (tweeter); white/yellow - white/blue (tweeter 2) at the amplifier in left rear cargo floor, black 38 pin plug, pins 13 - 14; 33 - 34; 27 - 26; 18 - 6.
Right Rear Speaker (+/-)	On models with amplifier the speaker wires are green - green/black (woofer/tweeter); yellow/red - yellow/brown (surround) at the amplifier in left rear cargo floor, black 38 pin plug, pins 20 - 8; 9 - 21.
Subwoofer (+/-)	On models with amplifier the speaker wires are red/green - brown/green at the amplifier in left rear cargo floor, black 38 pin plug, pins 16 - 4.