2012 Audi R8

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/gray (40A)	+	VESCM below glove box, black 52 pin plug, pin 1
Second 12 Volts	red/purple (40A)	+	VESCM below glove box, brown 52 pin plug, pin 42
Starter	black/gray	+	Steering Column Module, black 20 pin plug, pin 18
Second Starter	N/A		
Ignition	black/purple	+	Steering Column Module, black 20 pin plug, pin 17
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	N/A		
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	N/A		
Can Bus High	orange/green	data	VESCM below glove box, brown 52 pin plug, pin 15
Can Bus Low	orange/brown	data	VESCM below glove box, brown 52 pin plug, pin 16
Can Bus Sw	N/A		
Power Lock	white/purple	- resistor	Driver Door Module, gray 32 pin plug, pin 32
Power Unlock	same as power lock	- resistor	
Lock Motor	black/white	5 wire	Driver Door Module, black 20 pin plug, pin 13
Unlock Motor	brown	5 wire	Driver Door Module, black 20 pin plug, pin 12
Disarm Defeat	brown	5 wire	Passenger Door Module, black 20 pin plug, pin 12
Parking Lights (+)	gry/blk (LF), gry/red (RF), grn/wht (LR); wht (RR)	+	VESCM, black 52 pin plug, pins 7, 8, 27; brown 52 pin plug, pin 3
Parking Lights (-)	black/white	-	VESCM below glove box, black 52 pin plug, pin 19
Hazards	blue/red	-	VESCM below glove box, brown 52 pin plug, pin 7
Turn Signal (Left)	black/white (F); green/red (R)	+	VESCM, black 52 pin plug, pin 10; brown 52 pin plug, pin 4
Turn Signal (Right)	black/green (F); white/red (R)	+	VESCM, brown 52 pin plug, pin 50; black 52 pin plug, pin 26

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	white/black	-	VESCM below glove box, black 52 pin plug, pin 22
AutoLights	black/blue (interrupt to turn off autolights)	-	VESCM below glove box, black 52 pin plug, pin 20
Reverse Light	green	+	VESCM below glove box, black 52 pin plug, pin 28
Left Front Door Trigger	black/purple	-	Driver Door Module, black 20 pin plug, pin 7
Right Front Door Trigger	black/purple	-	Passenger Door Module, black 20 pin plug, pin 7
Left Rear Door Trigger	N/A		
Right Rear Door Trigger	N/A		
Dome Supervision	gray/blue	-	VESCM below glove box, brown 52 pin plug, pin 10
Trunk/Hatch Pin	gray/red (front trunk)	-	VESCM below glove box, black 52 pin plug, pin 29
Rear Glass Pin	N/A		
Hood Pin	green (rear hood)	-	VESCM below glove box, black 52 pin plug, pin 14
Trunk Hatch/Release	red/white (front trunk)	-	Driver Door Module, gray 32 pin plug, pin 30
Trunk Release Motor	gray (front trunk)	5 wire	VESCM below glove box, yellow 52 pin plug, pin 11
Fuel Door Release	yellow/gray	-	Driver Door Module, gray 32 pin plug, pin 13
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	black/blue (driver door key cylinder)	-	Driver Door Module, black 20 pin plug, pin 16
Factory Alarm Disarm	same as factory alarm arm	- 250 ohms	
Disarm No Unlock	see factory alarm disarm		
Trunk Alarm Shunt	N/A		
Tachometer	brown/stripe	ac	any fuel injector
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	gray/blue and green/gray	-	ECM, dr side of engine, blk 94 pin plg, pins 39,41
Fuel Pump	black	+	relay/fuse panel behind passenger seat, fuse S81
Rear Defroster	yellow/gray	- latched	VESCM below glove box, yellow 52 pin plug, pin 22
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	black/green	5 wire	Climatronic Control Module, black 3 pin plug, pin 1
Right Front Heated Seat	black/yellow	5 wire	Climatronic Control Module, black 3 pin plug, pin 3

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	white	ac	passenger side of center console, black 17 pin plug, pin 1
Brake Wire	red/black	+	VESCM below glove box, brown 52 pin plug, pin 17
Parking Brake	black/yellow	-	VESCM below glove box, black 52 pin plug, pin 12
Horn Trigger	black/red	-	VESCM below glove box, yellow 52 pin plug, pin 41
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)	N/A		
Right Rear Window (Up/Down)	white/red (rear window on conv) (with ign on only)	-resistors	rear window switch, 6 pin plug, pin 1
Sun Roof (Open/Close)	purple/blue - blue/green (conv) (with ign on only)	-	convertible top switch, 6 pin plug, pins 1 and 2
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	red/white	+	radio, black 8 pin plug, pin 7, or 2 pin plug, pin 1
Radio Ground	brown/red	-	radio, black 8 pin plug, pin 4, or 2 pin plug, pin 2
Radio Ignition	(CAN bus)		
Radio Illumination	(CAN bus)		
Factory Amp Turn-on	white	+	radio, black 8 pin plug, pin 5, or black 12 pin plug, pin 4
Power Antenna	N/A		
Left Front Speaker (+/-)	green/yellow - brown, or grn/yel - wht/ye (preamp)	+,-	radio, black 12 pin plug, pins 11 and 8, or 2 and 3
Right Front Speaker (+/-)	green/blue - brown, or grn/blu - wht/blu (preamp)	+,-	radio, black 12 pin plug, pins 9 and 8, or 8 and 9
Left Rear Speaker (+/-)	green/black - brown, or grn/blk - wht/blk (preamp)	+,-	radio, black 12 pin plug, pins 5 and 8, or 6 and 5
Right Rear Speaker (+/-)	gray/red - brown, or gray/red - gray/wht (preamp)	+,-	radio, black 12 pin plug, pins 3 and 8, or 12 and 11
Center Channel (+/-)	green - brown	+,-	amplifier behind driver seat, black 32 pin plug, pins 21 - 20, or 5 - 17
Subwoofer (+/-)	red/green - brown/green (Bang and Olufsen only)	+,-	amplifier behind driver seat, black 32 pin plug, pins 25 and 30
Aux. Audio Input Left (+/-)	yellow - green	+,-	radio, gray 32 pin plug, pins 22 and 6
Aux. Audio Input Right (+/-)	gray - green	+,-	radio, gray 32 pin plug, pins 21 and 6

RSE Video (+/-)		N/A	
RSE Audio Left (+/-)	yellow - green (satellite/CD/iPod audio)		radio, black 12 pin plug, pins 8 and 2
RSE Audio Right (+/-)	gray - green (satellite/CD/iPod audio)		radio, black 12 pin plug, pins 9 and 2
Satellite Radio 12 Volts	red/purple	+	sat radio behind pass seat, blk 8 pin plug, pin 2
Satellite Radio Ground	brown/red	-	sat radio behind pass seat, blk 8 pin plug, pin 1
Satellite Radio Ignition	(CAN bus)		
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	yellow - green	+,-	satellite radio, black 8 pin plug, pins 6 and 5
Satellite Audio Right (+/-)	gray - green	+,-	satellite radio, black 8 pin plug, pins 7 and 5

What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5 or 8	2.6	left front door
Left Front Tweeter	1 (tweeter); 3 (midrange)	0.8; 1.8	left front pillar; left front door
Right Front Speaker	6.5 or 8	2.6	right front door
Right Front Tweeter	1 (tweeter); 3 (midrange)	0.8; 1.8	right front pillar; right front door
Left Rear Speaker	6.5	2.5	left rear side panel
Left Rear Tweeter	1	1	left rear side panel
Right Rear Speaker	6.5	2.5	right rear side panel
Right Rear Tweeter	1	1	right rear side panel
Center Channel	3	2	top center of dash
Subwoofer	6.5	2	right front footwell
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			behind passenger seat

Additional Wiring Notes

Item	Note
Left Rear Speaker (+/-)	On Bang and Olufsen systems, the speaker wires are brown/black - brown/red at the amplifier behind driver seat, black 32 pin plug, pins 3 and 15.
Right Rear Speaker (+/-)	On Bang and Olufsen systems, the speaker wires are brown/blue - brown/white at the amplifier behind driver seat, black 32 pin plug, pins 4 and 16.
Left Front Speaker (+/-)	The speaker wires are blue/purple - white/purple (low); blue/purple - white/purple (mid/high) at the amplifier behind driver seat, black 32 pin plug, pins 4 and 3; 7 and 6. On Bang and Olufsen systems, the speaker wires are brown/black - brown/purple (low); brown - green (mid); brown - green (high) at the amplifier behind driver seat, black 32 pin plug, pins 23 and 28; 6 and 18; 8 and 20.
Right Front Speaker (+/-)	The speaker wires are blue/purple - white/purple (low); blue/purple - white/purple (mid/high) at the amplifier behind driver seat, black 32 pin plug, pins 16 and 15; 19 and 18. On Bang and Olufsen systems, the speaker wires are brown/black - brown/purple (low); green - brown (mid); brown - blue (high) at the amplifier behind driver seat, black 32 pin plug, pins 10 and 22; 7 and 19; 9 and 21.