

2010 Dodge RAM



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red	+	battery or TIPM
Second 12 Volts	lt. blue/red (10A)	+	Wireless Ignition Node, black 12 pin plug, pin 1
Starter	yellow/gray (for starter kill only)	+	dk. gray plug in front of TIPM or TIPM, brown 40 pin plug, pin 1
Second Starter	N/A		
Ignition	pink/white or pink/tan (for ignition sense only)	+	Wireless Ignition Node, black 12 pin plug, pin 3
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	dk. blue/pink (for accessory sense only)	+	cigar lighter or TIPM, gray 40 pin plug, pin 26
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	N/A		
Can Bus High	white/lt. green (CAN C BUS)	data	Wireless Ignition Node, black 12 pin plug, pin 5
Can Bus Low	white/lt. blue (CAN C BUS)	data	Wireless Ignition Node, black 12 pin plug, pin 6
Can Bus Sw	N/A		
Power Lock	purple/lt. green	- 330 ohms	passenger door lock switch or PDM, black 10 pin plug, pin 4
Power Unlock	same as power lock	- 100 ohms	
Lock Motor	tan/white	5 wire	driver kick or TIPM, brown 40 pin plug, pin 21
Unlock Motor	tan/lt. green	5 wire	driver kick or TIPM, brown 40 pin plug, pin 20
Disarm Defeat	tan/brown	5 wire	passenger kick or TIPM, brown 40 pin plug, pin 7
Parking Lights (+)	white/lt. green (L), white/purple (R)	+	TIPM, black 50 pin plug (C7), pins 50 and 48
Parking Lights (-)	white	- 1K ohms	headlight switch, black 10 pin plug, pin 1
Hazards	white/brown	-	hazard switch or TIPM, black 50 pin plug (C7), pin 12
Turn Signal (Left)	white/lt. green (F); white/dk. green (R)	+	TIPM, lt. gray 16 pin plug, pin 12; black 50 pin plug (C7), pin 49
Turn Signal (Right)	white/tan (F); white/yellow (R)	+	TIPM, lt. gray 16 pin plug, pin 13; black 50 pin plug (C7), pin 47

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	white	- 660 ohms	headlight switch, black 10 pin plug, pin 1
AutoLights	same as headlight	- resistor	
Reverse Light	white/red	+	TIPM, gray 40 pin plug, pin 5
Left Front Door Trigger	purple	-	driver kick or TIPM, black 50 pin plug (C7), pin 14
Right Front Door Trigger	purple/white	-	driver kick or TIPM, black 50 pin plg (C7), pin 15
Left Rear Door Trigger	purple/gray	-	driver kick or TIPM, black 50 pin plg (C7), pin 16
Right Rear Door Trigger	purple/yellow	-	driver kick or TIPM, black 50 pin plg (C7), pin 17
Dome Supervision	yellow/white	+	driver A pillar or instrument cluster, black 10 pin plug, pin 5
Trunk/Hatch Pin	N/A		
Rear Glass Pin	N/A		
Hood Pin	purple/lt. blue	-	hood switch or TIPM, lt. gray 16 pin plug, pin 3
Trunk Hatch/Release	N/A		
Trunk Release Motor	N/A		
Fuel Door Release	N/A		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	factory remote only		
Factory Alarm Disarm	factory remote only		
Disarm No Unlock	Sentry Key and ignition		
Trunk Alarm Shunt	N/A		
Tachometer	NOT brown/white	ac	any fuel injector
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	black (in), yellow/dk. blue (out)	- N.O.	clutch switch, 2 pin plug, pins 2 and 1
Fuel Pump	dk. blue/orange	+	TIPM, gray 40 pin plug, pin 13
Rear Defroster	black	5 wire	TIPM, brown 40 pin plug, pin 9
Mirror Defroster	black (L); black (R)	5 wire	DDM, 10 pin plug (C2), pin 4; PDM, 10 pin plug (C2), pin 4
Left Front Heated Seat	lt. green/brown	5 wire	Heated Seats Module, 5 pin plug (C2), pin 4
Right Front Heated Seat	lt. green/purple	5 wire	Heated Seats Module, 5 pin plug (C2), pin 5

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	dk. green/brown	ac	PCM, plug towards driver side, pin 32
Brake Wire	white	+	brake switch or Wireless Ignition Node, black 12 pin plug, pin 8
Parking Brake	dk. green/white	-	parking brake switch, black 1 pin plug, pin 1
Horn Trigger	dk. green/purple	-	horn switch
Wipers	brown/white (L), brown/orange (H)	+	wiper motor or TIPM, gray 40 pin plug, pins 27 and 12
Left Front Window (Up/Down)	orange/lt. green - orange/white	A	DDM, red 5 pin plug, pins 4 and 5
Right Front Window (Up/Down)	orange/brown - orange/purple	A	PDM, red 5 pin plug, pins 4 and 5
Left Rear Window (Up/Down)	orange/white - orange/gray	A	driver kick, door harness
Right Rear Window (Up/Down)	orange/lt. blue - orange/dk. blue	A	driver kick, door harness
Sun Roof (Open/Close)	org/tan - org/lt. blue (function with ign on only)	+	sunroof switch, black 4 pin plug, pins 4 and 3
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	purple/brown	- resistor	memory switch or driver kick, harness to rear
Memory Seat 2	same as memory seat 1	- resistor	
Memory Seat 3	N/A		
Radio 12V	yellow/red	+	radio, gray 22 pin plug, pin 1
Radio Ground	black/orange	-	radio, gray 22 pin plug, pin 12
Radio Ignition	(CAN IHS BUS)		
Radio Illumination	(CAN IHS BUS)		
Factory Amp Turn-on	(CAN IHS BUS)		
Power Antenna	N/A		
Left Front Speaker (+/-)	gray/purple - gray/yellow	+,-	radio, gray 22 pin plug, pins 21 and 22
Right Front Speaker (+/-)	dk. green/purple - dk. green/yellow	+,-	radio, gray 22 pin plug, pins 19 and 20
Left Rear Speaker (+/-)	gray/lt. green - gray/dk. green	+,-	radio, gray 22 pin plug, pins 8 and 9
Right Rear Speaker (+/-)	dk. green/lt. green - dk. green/gray	+,-	radio, gray 22 pin plug, pins 10 and 11
Center Channel (+/-)	gray - gray/orange	+,-	amplifier, black 16 pin plug, pins 3 and 11
Subwoofer (+/-)	gry/brn - dk grn/brn (1); gry/wht - dk grn/wht (2)	+,-	amplifier, blk 16 pin plug, pins 14, 6; wht 22 pin plug, pins 11, 22
Aux. Audio Input Left (+/-)	gray/lt. blue - dk. green/purple	+,-	auxiliary AV port, black 8 pin plug, pins 1 and 3
Aux. Audio Input Right (+/-)	gray/dk. blue - dk. green/purple	+,-	auxiliary AV port, black 8 pin plug, pins 2 and 3
RSE Video (+/-)	gry/brn - gry/pnk (1); gry/lt. blu - gry/yel (2)	+,-	radio, white 22 pin plug, pins 6 and 7; 9 and 10
RSE Audio Left (+/-)	see notes		

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DirectWire Vehicle Information	3/8/2011 12:16:36 AM		
RSE Audio Right (+/-)	see RSE audio left notes		
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	double DIN		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter	3.5		left front dash
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	3.5		right front dash
Left Rear Speaker	5.25		left rear door or B-pillar
Left Rear Tweeter			
Right Rear Speaker	5.25		right rear door or B-pillar
Right Rear Tweeter			
Center Channel	2.5		top center of dash
Subwoofer	10		behind center of rear seat
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner	(built into radio)		

Smart Starter Kill Relay



Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

Notes:
n/a

Alternate Part Notes:
n/a

Additional Wiring Notes

Item	Note
RSE Video (+/-)	The factory backup camera wires are dk. green/brown - dk. green/orange at the radio, white 22 pin plug, pins 3 and 4.
Second 12 Volts	The Wireless Ignition Node is part of the ignition switch.
Ignition	The Wireless Ignition Node is part of the ignition switch.
Can Bus High	The Wireless Ignition Node is part of the ignition switch. The CAN IHS BUS high wire is white/gray in the driver kick, door harness.
Can Bus Low	The Wireless Ignition Node is part of the ignition switch. The CAN IHS BUS low wire is white/orange in the driver kick, door harness.
Hood Pin	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
Starter	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
Mirror Defroster	The DDM (Driver Door Module) is in the driver door. The PDM (Passenger Door Module) is in the passenger door.
Left Front Heated Seat	The Heated Seats Module is under the driver seat.
Right Front Heated Seat	The Heated Seats Module is under the driver seat.
Left Front Speaker (+/-)	If equipped, the amplifier is under the driver dash. On vehicles with amplifier, the speaker wires are gray/purple - gray/yellow at the amplifier, black 16 pin plug, pins 8 and 16. The tweeter wires are gray - gray/yellow at the amplifier, white 22 pin plug, pins 20 and 9.
Right Front Speaker (+/-)	If equipped, the amplifier is under the driver dash. On vehicles with amplifier, the speaker wires are dk. green/purple - dk. green/yellow at the amplifier, black 16 pin plug, pins 7 and 15. The tweeter wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 and 8.
Left Rear Speaker (+/-)	If equipped, the amplifier is under the driver dash. On vehicles with amplifier, the speaker wires are gray/lt. green - gray/dk. green at the amplifier, black 16 pin plug, pins 13 and 5. The tweeter wires are dk. green/tan - dk. green/lt. blue at the amplifier, white 22 pin plug, pins 10 and 21.
Right Rear Speaker (+/-)	If equipped, the amplifier is under the driver dash. On vehicles with amplifier, the speaker wires are dk. green/lt. green - dk. green/gray at the amplifier, black 16 pin plug, pins 4 and 12. The tweeter wires are dk. green - yellow/gray at the amplifier, black 16 pin plug, pins 10 and 2.
Center Channel (+/-)	If equipped, the amplifier is under the driver dash.
Subwoofer (+/-)	If equipped, the amplifier is under the driver dash.
Speed Sense	The PCM (Powertrain Control Module) is in the passenger side rear corner of the engine compartment. On diesel models, it is at the PCM, rearward 76 pin plug, pin 69. The PCM (Powertrain Control Module) is on the lower driver side front of the engine.
Rear Defroster	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
Horn Trigger	This wire is not present on vehicles with Electronic Vehicle Information Center. On vehicles with EVIC, use gray/lt. blue or gray/yellow (5 wire) at the horns or the TIPM, green 26 pin plug, pin 21 or 25. The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
Wipers	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
RSE Audio Left (+/-)	Audio 1: dk. green/tan (left), dk. green/white (right), gray/purple (common) at radio, white 22 pin plug, pins 18, 20, and 19. Audio 2: dk. green/lt. blue (left), dk. green/dk. blue (right), gray/orange (common) at radio, white 22 pin plug, pins 21, 22, and 12. Audio 3: dk. green/purple (left), dk. green/yellow (right), gray/dk. blue (common) at radio, white 22 pin plug, pins 13, 14, and 1.
Accessory	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
12 Volts	The TIPM (Totally Integrated Power Module) is in the driver side front corner of the engine compartment.
Power Lock	The PDM (Passenger Door Module) is in the passenger door.