

DirectWire

2009 Lexus GS 450h (Smart Key) - North America - Requested by empire.de

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	white (80A)	+	driver dash fuse box, white 1 pin plug, pin 1
Second 12 Volts	black (80A)	+	passenger dash fuse box, white 1 pin plug, pin 1
Starter	yellow	+	Power Source Control ECU behind glove box, white 40 pin plug, pin 39
Ignition	lt. green	+	Power Source Control ECU behind glove box, white 40 pin plug, pin 35
Second Ignition	lt. blue	+	Power Source Control ECU behind glove box, white 40 pin plug, pin 34
Accessory	green	+	Power Source Control ECU behind glove box, white 40 pin plug, pin 11
PTS 1	pink	-	power start stop switch, black 14 pin plug, pin 7
PTS 2	black	-	power start stop switch, black 14 pin plug, pin 2
CAN Bus High	white	data	data link connector, white 16 pin plug, pin 6
CAN Bus Low	black	data	data link connector, white 16 pin plug, pin 14
RX DATA	yellow	data	power start stop switch, black 14 pin plug, pin 10
TX DATA	blue	data	power start stop switch, black 14 pin plug, pin 9
IMMO Data	pink (IMO)	data	driver kick, white 60 pin plug, pin 48
IMMO Data 2	lt. green (IMI)	data	driver kick, white 60 pin plug, pin 49

Item	Wire Color	Polarity	Wire Location
Door Lock Data	gray (power window master switch communication)	data	driver dash fuse box, gray 30 pin plug, pin 3
Power Lock	blue (passenger door switch)	-	Front RH Door ECU, white 24 pin plug, pin 22
Power Unlock	green (passenger door switch)	-	Front RH Door ECU, white 24 pin plug, pin 23
Lock Motor	green	5 wire	Front LH Door ECU, white 24 pin plug, pin 2
Driver Unlock Motor	red	5 wire	Front LH Door ECU, white 24 pin plug, pin 1
Passenger Unlock Motor	red	5 wire	Front RH Door ECU, white 24 pin plug, pin 1
Factory Alarm Arm	lt. green (driver door key lock)	-	power window master switch, white 20 pin plug, pin 4
Factory Alarm Disarm	pink (driver door key unlock)	double -	power window master switch, white 20 pin plug, pin 13
Trunk Alarm Shunt	blue (trunk key cylinder)	-	luggage room fuse box, white 22 pin plug, pin 15
Parking Lights	green (front); violet (LR); brown (RR)	+	LH headlight or engine room fuse box, black 13 pin plug, pin 9; luggage room fuse box, white 22 pin plug, pins 8, 22
Parking Lights -	blue	-	headlight switch, white 20 pin plug, pin 18
Hazards	beige	-	Body ECU (RH) on passenger dash fuse box, white 26 pin plug, pin 2
Turn Signal (Left)	yellow	+	driver dash fuse box, gray 30 pin plug, pin 21
Turn Signal (Right)	green	+	driver dash fuse box, gray 30 pin plug, pin 17
Headlight	red	-	passenger dash fuse box, gray 10 pin plug (DL), pin 7
AutoLights	orange	cut	headlight switch, white 20 pin plug, pin 19

Item	Wire Color	Polarity	Wire Location
Reverse Light	red	+	driver kick, white 39 pin plug, pin 19 or multi-display, white 26 pin plug, pin 13
Left Front Door Trigger	red	-	Body ECU (RH) on passenger dash fuse box, white 16 pin plug, pin 14
Right Front Door Trigger	red	-	Body ECU (RH) on passenger dash fuse box, white 28 pin plug, pin 23
Left Rear Door Trigger	green	-	passenger dash fuse box, rear, white 28 pin plug, pin 11
Right Rear Door Trigger	blue	-	Body ECU (RH) on passenger dash fuse box, white 16 pin plug, pin 16
Dome Light	blue	-	Body ECU (LH) on driver dash fuse box, white 10 pin plug, pin 2
Trunk/Hatch Pin	red	-	Body ECU (LH) on driver dash fuse box, white 16 pin plug, pin 11
Hood Pin	white/blue	-	hood switch or engine room fuse box, black 13 pin plug, pin 3
Trunk/Hatch Release	blue	-	release switch, black 5 pin plug, pin 4 or Body ECU (RH) on passenger dash fuse box, white 26 pin plug, pin 21
Fuel Door Release	violet	-	release switch, black 5 pin plug, pin 2
Fuel Pump	black	+	driver kick, harness to rear
Rear Defroster	black	5 wire	driver kick, harness to rear
Left Front Heated Seat	pink	+	seat heater switch or driver kick, white 39 pin plug, pin 34
Right Front Heated Seat	lt. blue	+	seat heater switch or passenger kick, white 60 pin plug, pin 52
Speed Sense	lt. blue or violet	ac	driver kick, white 60 pin plug, pin 50 or multi-display, white 26 pin plug, pin 14
Brake Wire	red/black	+	brake switch or passenger dash fuse box, gray 10 pin plug (DK), pin 1

Item	Wire Color	Polarity	Wire Location
Parking Brake	yellow/black or yellow	-	passenger dash fuse box, gray 10 pin plug (DL), pin 10 or multi-display, white 26 pin plug, pin 23
Horn Trigger	yellow	-	horn switch, black 12 pin plug, pin 8
Wipers	yellow (LO); blue/red (HI)	+	Body ECU (LH) on driver dash fuse box, white 26 pin plug, pins 1, 2
Memory Seat 1	blue	-	power window master switch, white 20 pin plug, pin 7
Memory Seat 2	violet	-	power window master switch, white 20 pin plug, pin 5
Memory Seat 3	red	-	power window master switch, white 20 pin plug, pin 14
Radio 12V	lt. blue	+	radio, white 20 pin plug, pin 1
Radio Ground	brown	-	radio, white 20 pin plug, pin 20
Radio Ignition	gray	+	radio, white 20 pin plug, pin 11
Radio Illumination	green (parking lights); white (dimmer)	+,-	radio, white 20 pin plug, pins 2, 12
Power Antenna	beige	+	radio, white 20 pin plug, pin 13
Left Front Speaker (+/-)	pink - violet	+,-	amplifier in trunk right side, white 10 pin plug, pins 2 - 6 or white 20 pin plug, pins 8 - 19
Right Front Speaker (+/-)	lt. green - blue	+,-	amplifier in trunk right side, white 10 pin plug, pins 8 - 7 or white 20 pin plug, pins 9 - 20
Left Rear Speaker (+/-)	black - yellow	+,-	amplifier in trunk right side, white 10 pin plug, pins 3 - 9 or white 20 pin plug, pins 6 - 17
Right Rear Speaker (+/-)	red - white	+,-	amplifier in trunk right side, white 10 pin plug, pins 4 - 10 or white 20 pin plug, pins 7 - 18
Center Channel (+/-)	yellow - black	+,-	amplifier in trunk right side, white 10 pin plug, pins 3 - 9 or white 20 pin plug, pins 3 -

Item	Wire Color	Polarity	Wire Location
Subwoofer (+/-)	pink - violet	+,-	12 amplifier in trunk right side, white 10 pin plug, pins 1 - 5 or white 20 pin plug, pins 5 - 14
Aux. Audio Input Left (+/-)	black - red	+,-	radio, white 20 pin plug, pins 17 - 16
Aux. Audio Input Right (+/-)	white - red	+,-	radio, white 20 pin plug, pins 15 - 16
RSE Video (+/-)	white - black	+,-	radio, white 8 pin plug, pins 1 - 2

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Additional Wiring Notes

Item	Note
Starter	Also found yellow (+) in the driver kick, white 60 pin plug, pin 9.
Ignition	Also found lt. green (+) in the passenger kick, white 39 pin plug, pin 13.
Power Lock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm arm wire.
Power Unlock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm disarm wire.
Left Front Speaker (+/-)	On Mark Levinson systems, the door woofer wires are white - red at the amplifier, white 10 pin plug, pins 3 - 9.
Right Front Speaker (+/-)	On Mark Levinson systems, the door woofer wires are green - white at the amplifier, white 10 pin plug, pins 4 - 10.
Left Rear Speaker (+/-)	On Mark Levinson systems, the surround speaker wires are lt. green - blue at the amplifier, white 10 pin plug, pins 1 - 5.
Right Rear Speaker (+/-)	On Mark Levinson systems, the surround speaker wires are black - yellow at the amplifier, white 10 pin plug, pins 2 - 6.
Subwoofer (+/-)	The voice coil 2 wires are blue or purple - lt. green at the amplifier, white 10 pin plug, pins 2 - 6 or white 20 pin plug, pins 4 - 13.