

## 2012 Hyundai Tucson (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	driver kick, blue 15 pin plug, pin 11
Second 12 Volts	pink (30A)	+	driver kick, blue 15 pin plug, pin 12
Starter	red	+	dash fuse box, rear, white 16 pin plug (J), pin 12
Second Starter	white (SS1); blue (SS2)	+	start stop button switch, black 10 pin plug, pins 1, 7
Ignition	pink	+	dash fuse box, rear, white 18 pin plug (H), pin 14
Accessory	blue	+	dash fuse box, rear, white 16 pin plug (J), pin 13
Second Accessory	white	+	dash fuse box, rear, white 16 pin plug (J), pin 11
Keysense	orange/black	-	driver kick, yellow 24 pin plug, pin 6
Data Bus	blue (EMS COM immobilizer data)	data	driver kick, blue 15 pin plug, pin 1
CAN Bus High	blue (B-CAN); green (C-CAN)	data	instr cluster, wht 24 pin plug, pin 8; data link conn, blk 16 pin plg, pin 6
CAN Bus Low	red (B-CAN); orange (C-CAN)	data	instr cluster, wht 24 pin plug, pin 9; data link conn, bk 16 pin plg, pin14
Power Lock	blue/black	-	dash fuse box, white 40 pin plug (D), pin 37
Power Unlock	gray/black (all doors); yel/blk (driver door only)	-	dash fuse box, wht 40 pin plug (D), pin 36; rear, wh 28 pin plg(F), pin8
Lock Motor	orange	5 wire	dash fuse box, white 20 pin plug (E), pin 9
Driver Unlock Motor	green	5 wire	driver kick, gray 24 pin plug, pin 10
Passenger Unlock Motor	blue	5 wire	dash fuse box, white 20 pin plug (E), pin 8
Factory Alarm Arm	red (key lock); gray (detection) (Tech Doc 1300)	- and open	dash fuse box, white 40 pin plug (D), pins 34, 31
Factory Alarm Disarm	pink (key unlock); gray (detection)(Tech Doc 1300)	both -	dash fuse box, white 40 pin plug (D), pins 28, 31
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	green (L); yellow (R)	+	dash fuse box, white 40 pin plug (D), pins 2, 1
Parking Lights (-)	yellow	-	headlight switch, white 13 pin plug, pin 1

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Item	Wire Color	Polarity	Wire Location
Hazards	yellow	-	hazard switch, white 6 pin plug, pin 5
Turn Signal (Left)	white	+	turn signal switch, white 13 pin plug, pin 11
Turn Signal (Right)	pink	+	turn signal switch, white 13 pin plug, pin 13
Headlight	blue	-	headlight switch, white 13 pin plug, pin 4
AutoLights	yellow (interrupt to turn off autolights)	-	headlight switch, white 13 pin plug, pin 3
Reverse Light	red	+	dash fuse box, white 20 pin plug (E), pin 1
Left Front Door Trigger	green/orange	-	dash fuse box, white 40 pin plug (D), pin 24
Right Front Door Trigger	pink/black	-	dash fuse box, white 40 pin plug (D), pin 25
Left Rear Door Trigger	yellow/black	-	dash fuse box, white 40 pin plug (D), pin 19
Right Rear Door Trigger	gray/black	-	dash fuse box, white 40 pin plug (D), pin 26
Dome Light	brown	-	left front pillar, white 26 pin plug, pin 8
Trunk/Hatch Pin	white	-	dash fuse box, white 40 pin plug (D), pin 39
Hood Pin	red	-	dash fuse box, white 28 pin plug (C), pin 21
Trunk/Hatch Release	yellow/black (rear handle switch)	-	dash fuse box, white 40 pin plug (D), pin 35
Trunk Release Motor	blue	+	dash fuse box, white 20 pin plug (E), pin 10
Tachometer	white/black	ac	passenger kick, white 24 pin plug, pin 4
Clutch Pedal	white/black	-	clutch switch, white 2 pin plug, pin 2
Fuel Pump	pink	+	driver kick, blue 15 pin plug, pin 6
Rear Defroster	green/orange (rear); blue (front)	- latched	dash fuse box, white 28 pin plug (C), pins 14, 28
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	blue (L); white (H)	+	driver kick, blue 22 pin plug, pins 3, 2
Right Front Heated Seat	blue (L); white (H)	+	driver kick, blue 22 pin plug, pins 13, 12
Speed Sense	brown	4-Pulse	data link connector, black 16 pin plug, pin 3

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Item	Wire Color	Polarity	Wire Location
Brake Wire	green	+	brake switch, wht 4 pin plg, pin 1 or driver kick, wht 24 pin plg, pin 6
Parking Brake	gray/orange	-	dash fuse box, white 40 pin plug (D), pin 20
Horn Trigger	gray	-	driver kick, white 24 pin plug, pin 20
Wipers	green (LO); pink (HI); yellow (ignition)	+	wiper switch, white 14 pin plug, pins 3, 9, 10
Left Front Window (Up/Down)	white - pink (without safety power window only)	A	power window main switch, white 16 pin plug, pins 7 - 8
Right Front Window (Up/Down)	gray - green	A	driver kick, door harness
Left Rear Window (Up/Down)	pink - brown	A	driver kick, door harness
Right Rear Window (Up/Down)	blue - orange	A	driver kick, door harness
Sun Roof (Open/Close)	white - brown/black (function with ign on only)	-	sunroof switch, white 4 pin plug, pins 4 - 1
Radio 12V	red	+	radio, white 24 pin plug, pin 12 or gray 8 pin plug, pin 4
Radio Ground	black	-	radio, white 24 pin plug, pin 24 or gray 8 pin plug, pin 8
Radio Ignition	blue/orange	+	radio, white 24 pin plug, pin 11 or gray 8 pin plug, pin 6
Radio Illumination	red/orange (parking lights); blue/orange (dimmer)	+,-	radio, white 18 pin plug, pins 8, 17 or gray 8 pin plug, pins 2, 7
Factory Amp Turn-on	(M-CAN)		
Power Antenna	green	+	radio, white 18 pin plug, pin 18 or gray 8 pin plug, pin 3
Left Front Speaker (+/-)	brown - white	+,-	radio, white 18 pin plug, pins 2 - 11
Right Front Speaker (+/-)	red - blue	+,-	radio, white 18 pin plug, pins 3 - 12
Left Rear Speaker (+/-)	yellow - black	+,-	radio, white 18 pin plug, pins 1 - 10
Right Rear Speaker (+/-)	green - orange	+,-	radio, white 18 pin plug, pins 4 - 13
Subwoofer (+/-)	green - orange (1); blue - red (2)	+,-	amplifier in RR cargo floor, white 26 pin plug, pins 13 - 26; 12 - 25

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Item	Wire Color	Polarity	Wire Location
Aux. Audio Input Left (+/-)	yellow - black	+,-	radio, wh 24P plg, pins 21-9; bk 20P plg, pins 4-10
Aux. Audio Input Right (+/-)	brown - black	+,-	radio, wh 24P plg, pins 8-9; bk 20P plg, pins 3-10
RSE Video (+/-)	red - black (rear view camera)	+,-	radio, white 24 pin plug, pins 15 - 16
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	6.5		left front door
Left Front Tweeter			left front door
Right Front Speaker	6.5		right front door
Right Front Tweeter			right front door
Left Rear Speaker	6.5		left rear door
Right Rear Speaker	6.5		right rear door
Subwoofer			right rear quarter panel
Satellite Radio Tuner	(built into radio)		

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***Additional Wiring Notes***

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are brown - white (woofer); brown - white (tweeter) at the amplifier in RR cargo floor, white 12 pin plug, pins 6 - 12; 4 - 10.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are yellow - black at the amplifier in RR cargo floor, white 12 pin plug, pins 2 - 8.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are red - blue (woofer); red - blue (tweeter) at the amplifier in RR cargo floor, white 12 pin plug, pins 5 - 11; 3 - 9.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are green - orange at the amplifier in RR cargo floor, white 12 pin plug, pins 1 - 7.
Speed Sense	Also found brown at the radio, white 24 pin plug, pin 16 (without navigation), or gray 8 pin plug, pin 1 (with navigation).