

## 2016 Hyundai Tucson (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (60A)	+	dash fuse box, black 6 pin plug (B), pin 2
Starter	red/black	+	driver kick, blue 48 pin plug, pin 31
Second Starter	white (SS1); blue (SS2)	-	start stop button switch, white 16 pin plug, pins 1, 8
Ignition	blue	+	driver kick, blue 48 pin plug, pin 36
Accessory	green	+	driver kick, blue 48 pin plug, pin 28
Second Accessory	white	+	driver kick, blue 48 pin plug, pin 17
Data Bus	blue (EMS COM immobilizer data)	data	driver kick, blue 48 pin plug, pin 20
CAN Bus High	green/black (B-CAN); green (C-CAN)	data	dash FB, rear, wh 18P plg(F), pin 3; data link conn, blk 16 pin plg, pin 6
CAN Bus Low	blue/black (B-CAN); orange (C-CAN)	data	dash FB, rear, wh 18P plg(F), pin 4; data link conn, bk 16 pin plg, pin14
Power Lock	blue/black	-	dash fuse box, white 32 pin plug (D), pin 27
Power Unlock	gray/black	-	dash fuse box, white 32 pin plug (D), pin 14
Lock Motor	orange	5 wire	dash fuse box, black 51 pin plug (C), pin 8
Driver Unlock Motor	pink	5 wire	driver kick, white 68 pin plug, pin 56
Passenger Unlock Motor	pink	5 wire	dash fuse box, black 51 pin plug (C), pin 26
Factory Alarm Arm	red (key lock); gray (detection) (Tech Doc 1300)	- and open	dash fuse box, white 32 pin plug (D), pins 13, 9
Factory Alarm Disarm	pink (key unlock); gray (detection)(Tech Doc 1300)	both -	dash fuse box, white 32 pin plug (D), pins 12, 9
Disarm No Unlock	(proximity key and push-button)		
Parking Lights (+)	blue/org (LF); green (RF); pink (LR); yellow (RR)	+	dash FB, wh 41 pin plg(A), pins 12, 29; blk 51 pin plg (C), pins 50, 19
Parking Lights (-)	yellow	-1680 ohms	headlight/wiper switch, black 16 pin plug, pin 14
Hazards	yellow	-	dash fuse box, rear, gray 51 pin plug (E), pin 30
Turn Signal (Left)	yellow (F); white (R)	+	dash fuse box, white 41 pin plg (A), pin 3; black 51 pin plg (C), pin 10

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Item	Wire Color	Polarity	Wire Location
Turn Signal (Right)	white/black (F); pink (R)	+	dash fuse box, white 41 pin plg (A), pin 39; black 51 pin plg (C), pin 39
Headlight	yellow	-5580 ohms	headlight/wiper switch, black 16 pin plug, pin 14
AutoLights	yellow (interrupt to turn off)	- 680 ohms	headlight/wiper switch, black 16 pin plug, pin 14
Reverse Light	red	+	dash fuse box, black 51 pin plug (C), pin 11
Left Front Door Trigger	blue	-	dash fuse box, white 32 pin plug (D), pin 23
Right Front Door Trigger	pink	-	dash fuse box, white 32 pin plug (D), pin 8
Left Rear Door Trigger	brown	-	dash fuse box, white 32 pin plug (D), pin 22
Right Rear Door Trigger	gray	-	dash fuse box, white 32 pin plug (D), pin 21
Dome Light	brown/orange	-	left front pillar, white 36 pin plug, pin 8
Trunk/Hatch Pin	white	-	dash fuse box, white 32 pin plug (D), pin 25
Hood Pin	orange/black	-	dash fuse box, white 41 pin plug (A), pin 38
Trunk/Hatch Release	green (rear handle sw); green/black (pwr liftgate)	-	dash FB, wht 32 pin plg (D), pin 24; pwr liftgate sw, blk 16 pin plg, pin 5
Trunk Release Motor	blue	+	dash fuse box, black 51 pin plug (C), pin 51
Tachometer	white	ac	driver kick, blue 48 pin plug, pin 35
Fuel Pump	white	+	right of dash fuse box, white 24 pin plug, pin 12
Rear Defroster	green/orange	- latched	dash fuse box, white 41 pin plug (A), pin 17
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	red	+	A/C Control, white 24 pin plug, pin 2 or white 32 pin plug, pin 5
Right Front Heated Seat	red	+	A/C Control, white 24 pin plug, pin 14 or white 32 pin plug, pin 17
Speed Sense	brown	ac	radio, white 24 pin plug, pin 16
Brake Wire	green/black	+	brake switch or dash fuse box, white 41 pin plug (A), pin 37
Parking Brake	gray/orange	-	dash fuse box, white 41 pin plug (A), pin 8

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Item	Wire Color	Polarity	Wire Location
Horn Trigger	gray/orange	-	horn switch or driver kick, blue 48 pin plug, pin 29
Wipers	blue	+	driver kick, blue 48 pin plug, pin 16
Left Front Window (Up/Down)	wht-pnk (w/o auto up); (mtr prt of mod, w/auto up)	A	power window main switch, white 18 pin plug, pins 8 - 9
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)	brown and green (open) (function with ign on only)	both -	sunroof switch, white 6 pin plug, pins 5, 6
Sun Roof (Limit/Close)	yellow and green (close) (funct with ign on only)	both -	sunroof switch, white 6 pin plug, pins 3, 2
Radio 12V	red	+	radio, white 24 pin plug, pin 12
Radio Ground	black	-	radio, white 24 pin plug, pin 24
Radio Ignition	blue/orange	+	radio, white 24 pin plug, pin 11 or 18
Radio Illumination	red/orange (parking lights); blue/orange (dimmer)	+,-	radio, white 18 pin plug, pins 8, 17
Factory Amp Turn-on	(M-CAN)		
Power Antenna	green	+	radio, white 18 pin plug, pin 18
Left Front Speaker (+/-)	white - brown	+,-	radio, white 18 pin plug, pins 2 - 11
Right Front Speaker (+/-)	red - blue	+,-	radio, white 18 pin plug, pins 3 - 12
Left Rear Speaker (+/-)	black - yellow	+,-	radio, white 18 pin plug, pins 1 - 10
Right Rear Speaker (+/-)	green - orange	+,-	radio, white 18 pin plug, pins 4 - 13
Center Channel (+/-)	red - blue	+,-	amplifier on right rear cargo floor, white 28 pin plug, pins 28 - 27
Subwoofer (+/-)	green - orange (1); blue - red (2)	+,-	amplifier on right rear cargo floor, black 28 pin plug, pins 16-17; 18-19
Aux. Audio Input Left (+/-)	white or red - black/orange	+,-	radio, white 24 pin plug, pins 21 - 9
Aux. Audio Input Right (+/-)	black - black/orange	+,-	radio, white 24 pin plug, pins 8 - 9

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Item	Wire Color	Polarity	Wire Location
RSE Video (+/-)	yellow - brown (rear view camera video)	+,-	radio, wh 16P plg, pins 4-3; wh 24P plg, pins23-22
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			left front door
Left Front Tweeter			left front door
Right Front Speaker			right front door
Right Front Tweeter			right front door
Left Rear Speaker			left rear door
Right Rear Speaker			right rear door
Center Channel			top center of dash
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 white - brown (woofer); white - brown (tweeter) at the amplifier on right rear cargo floor, black 28 pin plug, pins 26 - 25; 3 - 4.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are black - yellow at the amplifier on right rear cargo floor, black 28 pin plug, pins 15 - 14.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are red - blue (woofer); red - blue (tweeter) at the amplifier on right rear cargo floor, black 28 pin plug, pins 28 - 27; 1 - 2.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are green - orange at the amplifier on right rear cargo floor, black 28 pin plug, pins 13 - 12.