

2011 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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|--------------------------|---|-----------|---|
| 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 22 pin plug, pin 1 |
| 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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|------------------------------|---|----------|--|
| 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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|------------------------------|------------------------------------|----------|---|
| 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 - 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). |