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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Black (50A)	+	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 1
Ground	(chassis ground)		
Starter	Pink	+	Driver Kick, gray 54 pin plug (EM11), pin 33
Ignition	Black	+	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 17
Accessory	Yellow	+	Driver Kick, gray 54 pin plug (EM11), pin 42
Second Accessory	Brown	+	Driver Kick, gray 54 pin plug (EM11), pin 26
Ignition Interrupt	Gray	Cut	ICU Junction Block-Dash Fuse Box, rear, blue 58 pin plug (D), pin 25
PTS 1	Yellow/Orange	-	Start Stop Button Switch, white 10 pin plug, pin 1
PTS 2	Orange/Black	-	Start Stop Button Switch, white 10 pin plug, pin 7
CAN Bus High	White (D-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 7
CAN Bus Low	Brown (D-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 6
CAN Bus High 2	Brown (B-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 5
CAN Bus Low 2	White (B-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 4
CAN Bus High 3	White (D-CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
CAN Bus Low 3	Brown (D-CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
CAN Bus High 4	Yellow (M-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 3
CAN Bus Low 4	Pink (M-CAN)	Data	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 2
OBD 12 Volts	Red (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16



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OBD Ground	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4
OBD Ignition	Gray/Orange	+	OBD-Data Link Connector, black 16 pin plug, pin 3
OBD Connector	Black		Under Driver Dash, Below Fuse Panel
IMMO Data	White/Orange	Data	Driver Kick, gray 54 pin plug (EM11), pin 20
Power Lock	Orange	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 26
Power Unlock	Yellow	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 25
Lock Motor	Brown	Reverse	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 40
Driver Unlock Motor	Orange	Reverse	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 6
Passenger Unlock Motor	Gray	Reverse	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 11
Factory Alarm Arm	(factory remote only)		
Factory Alarm Disarm	(proximity key and push button)		
Lock Detection	Brown	Open	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 23
Unlock Detection	(same as lock detection)	-	
Parking Lights	White/Black (LF); Brown (RF)	+	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 11 (LF); pin 42 (RF)
Parking Lights 2	Orange/Black (LR); Gray/Black (RR)	+	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 36 (LR); pin 13 (RR)
Parking Lights -	Blue	- 5580 Ohms	Headlight-Wiper Switch, white 16 pin plug, pin 10
Parking Lights MUX	Blue	MUX	Headlight-Wiper Switch, white 16 pin plug, pin 10
Hazards	Brown	-	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 22
Hazards 2	Brown (alternate location)	-	Hazard Switch, white 6 pin plug, pin 1



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Item	Wire Color	Polarity	Wire Location
Turn Signal (Left)	Yellow (LF); Green/Orange (LR)	+	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 22 (LF); white 58 pin plug (A), pin 14 (LR)
Turn Signal (Right)	White (RF); Blue/Orange (RR)	+	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 23 (RF); white 58 pin plug (A), pin 24 (RR)
Headlight	Blue/Orange	-	Headlight-Wiper Switch, white 16 pin plug, pin 2
AutoLights	Blue	- 680 Ohms (Off)	Headlight-Wiper Switch, white 16 pin plug, pin 10
Reverse Light	Red/Black	+	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 16
Left Front Door Trigger	Yellow/Orange	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 14
Right Front Door Trigger	White	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 32
Left Rear Door Trigger	Red	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 28
Right Rear Door Trigger	Yellow	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 27
Dome Light	Brown	-	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 30
Trunk/Hatch Pin	White	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 29
Hood Pin	Pink/Black	-	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 24
Power Liftgate	Green/Black	-	Power Liftgate Switch, white 16 pin plug, pin 7
Power Liftgate 2	Green/Black (alternate location)	-	Driver Kick, red 74 pin plug (MF11), pin 71
Trunk/Hatch Release	Gray (rear handle switch)	-	ICU Junction Block-Dash Fuse Box, white 32 pin plug (C), pin 24
Trunk Release Motor	Red/Black (w/o power liftgate)	+	ICU Junction Block-Dash Fuse Box, white 58 pin plug (A), pin 9
Fuel Door Release	(locks-unlocks with driver door)		

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Item	Wire Color	Polarity	Wire Location
Tachometer	Green	AC	Driver Kick, gray 54 pin plug (EM11), pin 23
Tachometer 2	Brown	AC	Camshaft Position Sensor, engine driver side front, black 3 pin plug, pin 1
Fuel Pump	Orange	+	Driver Kick, white 51 pin plug (EF11), pin 13
Rear Defroster	Green/Orange	- Latched	ICU Junction Block-Dash Fuse Box, white 46 pin plug (B), pin 36
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	Green/White (w/o SBW) (w/o ventilation); (LIN with ventilation)	-	Console Switch, white 16 pin plug, pin 6
Right Front Heated Seat	Blue/White (w/o SBW) (w/o ventilation); (LIN with ventilation)	-	Console Switch, white 16 pin plug, pin 7
Left Front Heated Seat 2	Red/White (SBW) (w/o ventilation); (LIN with ventilation)	-	Console Switch, white 32 pin plug, pin 20
Right Front Heated Seat 2	Brown/Black (SBW) (w/o ventilation); (LIN with ventilation)	-	Console Switch, white 32 pin plug, pin 24
Heated Steering Wheel	Black/White (w/o SBW); Violet (SBW)	-	Console Switch, white 16 pin plug, pin 4 (w/o SBW); white 32 pin plug, pin 10 (SBW)
Speed Sense	Brown/Orange	AC	Radio, white 38 pin plug, pin 38
Brake Wire	Green/Black	+	Brake Switch, black 6 pin plug, pin 5
Brake Wire 2	Green/Black (alternate location)	+	Driver Kick, gray 54 pin plug (EM11), pin 34
Parking Brake	(electric parking brake)		
Horn Trigger	Gray/Orange	-	Horn Switch-Clock Spring, white 14 pin plug, pin 8
Horn Trigger 2	Gray/Orange (alternate location)	-	Driver Kick, gray 54 pin plug (EM11), pin 7
Horn - Factory Alarm	White	-	ICU Junction Block-Dash Fuse Box, rear, black 32 pin plug (E), pin 31
Wipers	Orange/Black	+	Passenger Kick, blue 54 pin plug (EM21), pin 32
Left Front Window (Up/Down)	Yellow - Orange (auto down); (auto up-down, motor is part of module)	A	Power Window Main Switch, white 18 pin plug, pins 9 - 7
Right Front Window (Up/Down)	Brown - White (w/o auto); (with auto, motor is part of module)	A	Driver Kick, door harness
Left Rear Window (Up/Down)	Blue - Orange	A	Driver Kick, door harness

2022 Hyundai Tucson(SmartKey)(USA) - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
Right Rear Window (Up/Down)	Pink - Gray	A	Driver Kick, door harness
Sun Roof (Open/Close)	White - Blue (function with ignition on only)	-	Sunroof Switch, white 6 pin plug, pins 4 - 5
Sun Roof (Limit/Close)	Orange (tilt) (functions with ignition on only)	-	Sunroof Switch, white 6 pin plug, pin 6
Memory Seat 1	Orange	- 1500 Ohms	Driver Kick, door harness
Memory Seat 2	(same as memory seat 1)	- 3300 Ohms	
Radio 12V	Red	+	Radio, gray 35 pin plug, pins 10, 11
Radio Ground	Black	-	Radio, gray 35 pin plug, pins 12, 13
Radio Ignition	White	+	Radio, gray 35 pin plug, pin 22
Radio Illumination	Pink (parking lights); Gray (dimmer)	+,-	Radio, gray 35 pin plug, pin 6 (parking lights); pin 19 (dimmer)
Factory Amp Turn-on	(M-CAN) (audio is SPDIF)		
Left Front Speaker (+/-)	Brown - White	+,-	Radio, white 38 pin plug, pins 13 - 14
Right Front Speaker (+/-)	Red - Blue	+,-	Radio, white 38 pin plug, pins 16 - 15
Left Rear Speaker (+/-)	Yellow - Black	+,-	Radio, white 38 pin plug, pins 1 - 2
Right Rear Speaker (+/-)	Green - Orange	+,-	Radio, white 38 pin plug, pins 28 - 27
Left Front Speaker - With Amp	Brown - White	+,-	Amplifier under driver seat, green 28 pin plug, pins 2 - 17
Right Front Speaker - With Amp	Red - Blue	+,-	Amplifier under driver seat, green 28 pin plug, pins 1 - 16
Left Rear Speaker - With Amp	Yellow - Black	+,-	Amplifier under driver seat, green 28 pin plug, pins 13 - 26
Right Rear Speaker - With Amp	Green - Red	+,-	Amplifier under driver seat, green 28 pin plug, pins 12 - 25
Center Channel - With Amp	Pink - Yellow	+,-	Amplifier under driver seat, green 28 pin plug, pins 14 - 27
Subwoofer - With Amp	Blue - Red	+,-	Amplifier under driver seat, green 28 pin plug, pins 3 - 18
Rearview Camera Video	Red - Black (rear view); (COAX, surround view)	+,-	Radio, white 38 pin plug, pins 7 - 21 (rear view)



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What Fits

Item	Size	Depth	Location
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Additional Wiring Notes

Item	Note
CAN Bus High 2	Also found in the Driver Kick, red 74 pin plug (MF11), pin 63.
CAN Bus Low 2	Also found in the Driver Kick, red 74 pin plug (MF11), pin 64.