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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Red (40A)	+	BCM in passenger kick, black 22 pin plug (J7-G), pin 22
Second 12 Volts	Yellow/Red (60A)	+	BCM in passenger kick, black 1 pin plug (J8-H), pin 1
Ground	(chassis ground)		
Starter Kill	Brown/Green	+	Next to Underhood Fuse Box, black 20 pin plug (C146), pin 10
Ignition Sense	Yellow/Gray	+	BCM in passenger kick, gray 22 pin plug (J1-A), pin 4
PTS 1	Blue/White	+	Start Stop Switch, gray 6 pin plug, pin 1
PTS 2	Yellow/Orange	-	Start Stop Switch, gray 6 pin plug, pin 6
CAN Bus High	Blue (HS1 CAN)	Data	Behind Glove Box, gray 30 pin plug (C210), pin 4
CAN Bus Low	White (HS1 CAN)	Data	Behind Glove Box, gray 30 pin plug (C210), pin 3
CAN Bus High 2	Gray/Orange (MS1 CAN)	Data	Driver Kick, gray 30 pin plug (C263), pin 1
CAN Bus Low 2	Violet/Orange (MS1 CAN)	Data	Driver Kick, gray 30 pin plug (C263), pin 2
CAN Bus High 3	Blue (HS1 CAN)	Data	BCM in passenger kick, black 22 pin plug (J7-G), pin 10
CAN Bus Low 3	White (HS1 CAN)	Data	BCM in passenger kick, black 22 pin plug (J7-G), pin 9
CAN Bus High 4	White/Brown (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6
CAN Bus Low 4	Gray/Yellow (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
OBD 12 Volts	Violet/Red (10A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	Black/Gray	-	OBD-Data Link Connector, white 16 pin plug, pin 4
OBD Connector	White		Under Driver Dash, Below Electric Parking Brake Switch

2023 Ford F-150(SmartKey) - Requested by: ampire.de


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Item	Wire Color	Polarity	Wire Location
IMMO Antenna	(PATS antenna is under cup holder or in center seat storage)		
Power Lock	Gray/Yellow (w/o memory)	-	Driver Door Lock Switch, black 4 pin plug, pin 4
Power Unlock	Violet/Gray (w/o memory)	-	Driver Door Lock Switch, black 4 pin plug, pin 2
Power Lock2	Gray/Yellow (with memory)	-	Driver Door Lock Switch, black 8 pin plug, pin 2
Power Unlock2	Violet/Gray (with memory)	-	Driver Door Lock Switch, black 8 pin plug, pin 1
Lock Motor	Gray/Brown	Reverse	Driver Kick, door harness --or-- BCM in passenger kick, black 36 pin plug (J3-C), pin 35
Driver Unlock Motor	Blue/Green	Reverse	Driver Kick, door harness --or-- BCM in passenger kick, black 36 pin plug (J3-C), pin 27
Passenger Unlock Motor	Brown/Green	Reverse	BCM in passenger kick, black 36 pin plug (J3-C), pin 32
Factory Alarm Arm	(arms on lock)		
Factory Alarm Disarm	(proximity key and push button)		
Parking Lights	Blue/White (LF-RF)	+	BCM in passenger kick, black 22 pin plug (J7-G), pin 3
Parking Lights 2	Violet/Green (LR); White/Orange (RR)	+	BCM in passenger kick, blue 52 pin plug (J5-E), pin 25 (LR); pin 51 (RR)
Parking Lights -	(LIN)		
Hazards	Brown/Yellow	-	Harness Above Glove Box --or-- Hazard Switch, black 6 pin plug, pin 4
Hazards 2	Brown/Yellow (alternate location)	-	BCM in passenger kick, black 52 pin plug (J2-B), pin 19
Turn Signal (Left)	Blue/Green (LF); Gray/Orange (LR)	+	BCM in passenger kick, black 40 pin plug (J6-F), pin 39 (LF); blue 52 pin plug (J5-E), pin 26 (LR)
Turn Signal (Right)	Yellow/Violet (RF); Green/Orange (RR)	+	BCM in passenger kick, black 40 pin plug (J6-F), pin 38 (RF); blue 52 pin plug (J5-E), pin 52 (RR)
Headlight	Brown/Blue (L); Blue/Green (R)	+	BCM in passenger kick, black 22 pin plug (J7-G), pin 4 (L); pin 2 (R)
AutoLights	(LIN)		

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Reverse Light	Green/Brown	+	BCM in passenger kick, black 36 pin plug (J3-C), pin 11
Reverse Light 2	Green/Brown (alternate location)	+	Driver Kick, harness to rear
Left Front Door Trigger	Green/Violet	-	Driver Kick, door harness
Left Front Door Trigger 2	Green/Violet (alternate location)	-	BCM in passenger kick, blue 52 pin plug (J5-E), pin 33
Right Front Door Trigger	White	-	BCM in passenger kick, blue 52 pin plug (J5-E), pin 21
Left Rear Door Trigger	Green	-	BCM in passenger kick, blue 52 pin plug (J5-E), pin 46
Right Rear Door Trigger	Yellow	-	BCM in passenger kick, blue 52 pin plug (J5-E), pin 19
Dome Light	Gray/Violet	+	BCM in passenger kick, black 36 pin plug (J3-C), pin 13
Trunk/Hatch Pin	Yellow/Blue (power tailgate ajar)	-	BCM in passenger kick, blue 52 pin plug (J5-E), pin 34
Hood Pin	Blue/Orange	-	BCM in passenger kick, black 40 pin plug (J6-F), pin 14
Power Liftgate	Gray/Yellow (power tailgate)	-	Power Tailgate Switch, black 6 pin plug, pin 2
Power Liftgate 2	Gray/Yellow (alternate location)	-	Driver Kick, gray 30 pin plug (C263), pin 27
Trunk/Hatch Release	Gray/Yellow (tailgate release)	-	Tailgate Release Switch, black 6 pin plug, pin 2
Trunk-Hatch Release2	Gray/Yellow (alternate location)	-	BCM in passenger kick, black 52 pin plug (J2-B), pin 1
Trunk Release Motor	Gray/Orange (tailgate release)	+	Above Passenger Kick, white 59 pin plug (C265), pin 24
Fuel Door Release	Yellow/Blue (HEV)	-	Headlight Switch, black 16 pin plug, pin 4
Tachometer	Brown/Blue (2.7L, 3.3L, 3.5L, HEV)	AC	PCM on passenger firewall, black 126 pin plug, pin 53
Tachometer 2	White/Green (5.0L)	AC	PCM on passenger firewall, black 126 pin plug, pin 53

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Tachometer 3	Brown/Blue (3.0L Diesel)	AC	PCM on passenger firewall, black 126 pin plug, pin 38
Fuel Pump	Blue or Blue/White	+	Driver Fender, black 68 pin plug (C1591), pin 9
Rear Defroster	Yellow/Orange	+ Latched	Above Passenger Kick, white 59 pin plug (C265), pin 29
Mirror Defroster	(MS1 CAN)		
Left Front Heated Seat	(MS1 CAN)		
Right Front Heated Seat	(MS1 CAN)		
Speed Sense	Brown/Red (2.7L, 3.3L, 3.5L, 5.0L); Brown/Green (HEV)	AC	PCM on passenger firewall, black 90 pin plug, pin 71
Speed Sense 2	Brown (3.0L Diesel)	AC	TCM near frame rail below passenger door, black 50 pin plug, pin 42
Speed Sense 3	Violet/Orange (with moonroof)	AC	BCM in passenger kick, blue 52 pin plug (J5-E), pin 41
Brake Wire	Gray/Orange	+	BCM in passenger kick, gray 22 pin plug (J1-A), pin 1
Parking Brake	(electric parking brake)		
Horn Trigger	Green/White	-	BCM in passenger kick, black 52 pin plug (J2-B), pin 18
Horn Trigger 2	Green/White (alternate location)	-	Horn Switch-Clock Spring, gray 18 pin plug, pin 9 or gray 12 pin plug, pin 5
Wipers	(LIN)		
Wipers Protection	White/Blue (relay (-) trigger)	Cut	BCM in passenger kick, black 40 pin plug (J6-F), pin 24
Left Front Window (Up/Down)	Blue - Green	A	Driver Door Module, black 24 pin plug, pins 14 - 13
Right Front Window (Up/Down)	White - Gray/Yellow	A	Passenger Door Module, black 24 pin plug, pins 14 - 13
Left Rear Window (Up/Down)	Green/Violet - Brown	A	Left Rear Window Switch, green 8 pin plug, pins 6 - 7
Right Rear Window (Up/Down)	White/Violet - Gray	A	Right Rear Window Switch, green 8 pin plug, pins 6 - 7

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Item	Wire Color	Polarity	Wire Location
Rear Sliding Window Open-Close	Yellow/Green - Violet/Brown	+	Above Passenger Kick, white 59 pin plug (C265), pins 43 - 45
Sun Roof (Open/Close)	Violet/Brown - Yellow/Orange (function with ignition on only)	-	Overhead Console, black 16 pin plug, pins 5 - 4
Memory Seat 1	Violet/White	-	Driver Door Lock Switch, black 8 pin plug, pin 5
Memory Seat 2	Yellow	-	Driver Door Lock Switch, black 8 pin plug, pin 6
Memory Seat 3	Blue/Orange	-	Driver Door Lock Switch, black 8 pin plug, pin 7
Radio 12V	Violet/Red	+	Radio, black 32 pin plug, pin 1
Radio Ground	Black/Gray	-	Radio, black 32 pin plug, pin 4
Radio Ignition	Green (delay accessory)	+	Driver Kick, door harness --or-- BCM in passenger kick, black 36 pin plug (J3-C), pin 30
Factory Amp Turn-on	Yellow/Violet (audio is A2B)	+	Radio, gray 32 pin plug, pin 23
Left Front Speaker (+/-)	White - White/Brown	+, -	Radio, black 32 pin plug, pins 8 - 7
Right Front Speaker (+/-)	White/Violet - White/Orange	+, -	Radio, black 32 pin plug, pins 3 - 2
Left Rear Speaker (+/-)	White/Green - Brown/Yellow	+, -	Radio, black 32 pin plug, pins 6 - 5
Right Rear Speaker (+/-)	Brown/White - Brown/Blue	+, -	Radio, black 32 pin plug, pins 10 - 9
Center Channel (+/-)	Green - Gray/Yellow	+, -	Radio, black 32 pin plug, pins 13 - 24
Left Front Speaker - With Amp	White - White/Brown	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 17 - 7 (8 speaker); brown 20 pin plug, pins 17 - 7 (18 speaker)
Right Front Speaker - With Amp	White/Violet - White/Orange	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 16 - 6 (8 speaker); brown 20 pin plug, pins 14 - 4 (18 speaker)
Left Front Tweeter - With Amp	White - White/Brown (tweeter); Green/Blue - Gray/Blue (mid, 18 speaker)	+, -	Radio, black 32 pin plug, pins 6 - 5 (tweeter); Amplifier on driver rear cabin wall, brown 20 pin plug, pins 16 - 6 (mid)

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Right Front Tweeter - With Amp	White/Violet - White/Orange (tweeter); Violet/Gray - Yellow/Gray (mid, 18 speaker)	+, -	Radio, black 32 pin plug, pins 10 - 9 (tweeter); Amplifier on driver rear cabin wall, brown 20 pin plug, pins 12 - 2 (mid)
Left Front Surround - With Amp	Yellow/Orange - White/Brown (headliner, 18 speaker)	+, -	Amplifier on driver rear cabin wall, brown 20 pin plug, pins 20 - 10
Right Front Surround - With Amp	Brown/Yellow - Violet/Green (headliner, 18 speaker)	+, -	Amplifier on driver rear cabin wall, brown 20 pin plug, pins 19 - 9
Left Rear Speaker - With Amp	White/Green - Brown/Yellow	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 20 - 10 (8 speaker); Radio, black 32 pin plug, pins 3 - 2 (18 speaker)
Right Rear Speaker - With Amp	Brown/White - Brown/Blue	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 18 - 8 (8 speaker); Radio, black 32 pin plug, pins 8 - 7 (18 speaker)
Left Rear Surround - With Amp	Violet/Brown - Yellow/Violet (headrest, 18 speaker) (driver and passenger parallel)	+, -	Amplifier on driver rear cabin wall, brown 20 pin plug, pins 18 - 8
Right Rear Surround - With Amp	Green/Blue - Blue/Orange (headrest, 18 speaker) (driver and passenger parallel)	+, -	Amplifier on driver rear cabin wall, black 8 pin plug, pins 6 - 2
Center Channel - With Amp	Green - Gray/Yellow	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 19 - 9 (8 speaker); brown 20 pin plug, pins 13 - 3 (18 speaker)
Subwoofer - With Amp	Green/Violet - Gray	+, -	Amplifier on driver rear cabin wall, black 20 pin plug, pins 15 - 5 (8 speaker); brown 20 pin plug, pins 15 - 5 (18 speaker)
Aux. Audio Input Left (+/-)	Blue - Gray/Orange (SYNC audio)	+, -	Radio, gray 32 pin plug, pins 20 - 31
Aux. Audio Input Right (+/-)	Violet/Green - Brown/White (SYNC audio)	+, -	Radio, gray 32 pin plug, pins 21 - 32
Rearview Camera Video	White/Green - Blue/Gray (8 inch); (coax cable, 12 inch)	+, -	SYNC Module behind radio controls, black 54 pin plug, pins 14 - 15 --or-- Driver Kick, gray 30 pin plug (C263), pins 13 - 12



What Fits

Item	Size	Depth	Location
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