

DirectWire

2025 Ford Ranger (Smart Key) - North America - Requested by ampire.de

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	White/Green (60A)	+	BCM-Dash Fuse Box, black 1 pin plug (J8-H), pin 1
Second 12 Volts	Red (30A)	+	BCM-Dash Fuse Box, black 22 pin plug (J7-G), pin 22
Starter	Green/White	+	Passenger Kick, black 59 pin plug (C212), pin 8
Ignition Sense	Gray/Orange	+	BCM-Dash Fuse Box, gray 22 pin plug (J1-A), pin 7
PTS 1	Green/White	+	Start Stop Switch, black 8 pin plug, pin 1
PTS 2	Yellow/Orange	-	Start Stop Switch, black 8 pin plug, pin 8
PTS 3	Green/White (PTS 1 alternate)	+	BCM-Dash Fuse Box, black 52 pin plug (J2-B), pin 51
PTS 4	Yellow/Orange (PTS 2 alternate)	-	BCM-Dash Fuse Box, black 52 pin plug (J2-B), pin 5
CAN Bus High	Blue (HS1 CAN)	Data	BCM-Dash Fuse Box, black 22 pin plug (J7-G), pin 10
CAN Bus Low	White (HS1 CAN)	Data	BCM-Dash Fuse Box, black 22 pin plug (J7-G), pin 9
CAN Bus High 2	Gray/Orange (MS1 CAN)	Data	Driver Kick, door harness, gray 18 pin plug (C500C), pin 13
CAN Bus Low 2	Violet/Orange (MS1 CAN)	Data	Driver Kick, door harness, gray 18 pin plug (C500C), pin 14
CAN Bus High 3	White/Brown (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 6

Item	Wire Color	Polarity	Wire Location
CAN Bus Low 3	Gray/Yellow (DIAG CAN)	Data	OBD-Data Link Connector, white 16 pin plug, pin 14
OBD 12 Volts	White/Red (10A)	+	OBD-Data Link Connector, white 16 pin plug, pin 16
OBD Ground	Black/Blue	-	OBD-Data Link Connector, white 16 pin plug, pin 4
IMMO Antenna	Gray/Violet - Blue/White	RF	Inside Antenna under center console armrest storage, black 4 pin plug, pins 1 - 2
IMMO Antenna 2	Gray/Violet - Blue/White	RF	BCM-Dash Fuse Box, black 52 pin plug (J2-B), pins 40 - 27
Driver LF Antenna	Violet/White	RF	Driver Kick, door harness, green 13 pin plug (C500B), pin 1
Driver LF Antenna 2	Violet/White	RF	BCM-Dash Fuse Box, black 32 pin plug (J4-D), pin 13
Passenger LF Antenna	Brown/Yellow	RF	Passenger Kick, door harness, green 13 pin plug (C600B), pin 1
Passenger LF Antenna 2	Brown/Yellow	RF	BCM-Dash Fuse Box, black 32 pin plug (J4-D), pin 12
Power Lock	Gray/Yellow	-	Driver Door Lock Switch, black 10 pin plug, pin 9
Power Unlock	Violet/Gray	-	Driver Door Lock Switch, black 10 pin plug, pin 5
Lock Motor	Gray/Brown	Reverse	BCM-Dash Fuse Box, black 36 pin plug (J3-C), pin 35
Driver Unlock Motor	Blue/Green	Reverse	BCM-Dash Fuse Box, black 36 pin plug (J3-C), pin 27
Passenger Unlock Motor	Brown/Green	Reverse	BCM-Dash Fuse Box, black 36 pin plug (J3-C), pin 32
Parking Lights	Gray/Blue (LF); Violet/White (RF)	+	BCM-Dash Fuse Box, black 40 pin plug (J6-F), pin 40 (LF); pin 36 (RF)

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Parking Lights 2	Violet/Green (LR); Brown/Yellow (RR)	+	BCM-Dash Fuse Box, black 40 pin plug (J6-F), pin 30 (LR); pin 37 (RR)
Hazards	Brown/Yellow	-	BCM-Dash Fuse Box, black 52 pin plug (J2-B), pin 19
Hazards 2	Brown/Yellow (alternate location)	-	Hazard Switch, black 10 pin plug, pin 3
Turn Signal (Left)	Blue/Green (LF); Gray/Orange (LR)	+	BCM-Dash Fuse Box, 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-Dash Fuse Box, 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-Dash Fuse Box, black 22 pin plug (J7-G), pin 4 (L); pin 2 (R)
Reverse Light	Green/Brown	+	BCM-Dash Fuse Box, black 36 pin plug (J3-C), pin 11
Reverse Light 2	Green/Brown (alternate location)	+	Driver Kick, black 68 pin plug (C275), pin 37
Left Front Door Trigger	Green/Violet	-	Driver Kick, black 68 pin plug (C275), pin 63
Left Front Door Trigger 2	Green/Violet (alternate location)	-	BCM-Dash Fuse Box, blue 52 pin plug (J5-E), pin 33
Right Front Door Trigger	White	-	BCM-Dash Fuse Box, blue 52 pin plug (J5-E), pin 21
Left Rear Door Trigger	Green	-	BCM-Dash Fuse Box, blue 52 pin plug (J5-E), pin 46
Right Rear Door Trigger	Yellow	-	BCM-Dash Fuse Box, blue 52 pin plug (J5-E), pin 19
Dome Light	Gray/Violet	+	BCM-Dash Fuse Box, black 36 pin plug (J3-C), pin 13
Dome Light 2	Gray/Violet (alternate location)	+	Driver Kick, black 68 pin plug (C275), pin 12

Item	Wire Color	Polarity	Wire Location
Hood Pin	Blue/Orange	- N.C.	BCM-Dash Fuse Box, black 40 pin plug (J6-F), pin 14
Tachometer	Brown/Blue (2.3L)	AC	Camshaft Position Sensor, engine driver side rear, black 3 pin plug, pin 3
Tachometer 2	Green/Violet (2.7L, 3.0L)	AC	Camshaft Position Sensor, engine driver side rear, black 3 pin plug, pin 1
Fuel Pump	Violet/Green	+	Underhood Fuse Box, black 60 pin plug (A), pin 3
Rear Defroster	Black	+ Latched	Driver Kick, harness to rear
Speed Sense	Brown/Green (2.3L)	AC	PCM on passenger firewall, black 126 pin plug (E), pin 72
Speed Sense 2	Brown/Green (2.7L, 3.0L)	AC	PCM on passenger firewall, black 90 pin plug (T), pin 71
Brake Wire	Violet/White	+	BCM-Dash Fuse Box, gray 22 pin plug (J1-A), pin 1
Brake Wire 2	Violet/White (alternate location) (2.3L only)	+	Brake Switch, white 4 pin plug, pin 4
Horn Trigger	Green/White	-	Horn Switch-Clock Spring, gray 18 pin plug, pin 9
Horn Trigger 2	Green/White (alternate location)	-	BCM-Dash Fuse Box, black 52 pin plug (J2-B), pin 18
Horn - Factory Alarm	Violet/Green	-	BCM-Dash Fuse Box, black 40 pin plug (J6-F), pin 20
Wipers Protection	Yellow/Blue (relay (-) trigger)	Cut	BCM-Dash Fuse Box, 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

Item	Wire Color	Polarity	Wire Location
Right Front Window (Up/Down)	White - Gray/Yellow	A	Passenger Door Module, black 24 pin plug, pins 14 - 13
Left Rear Window (Up/Down)	Gray/Brown - Violet/Orange	A	Driver Kick, door harness, green 13 pin plug (C500B), pins 3 - 4
Right Rear Window (Up/Down)	Violet/White - Yellow/Orange	A	Passenger Kick, door harness, green 13 pin plug (C600B), pins 3 - 4
Sun Roof (Open/Close)	Violet/Brown - Yellow (function with ignition on only)	-	Passenger Kick, black 70 pin plug (C213), pins 36 - 44
Memory Seat 1	Violet/White	-	Driver Door Lock Switch, black 10 pin plug, pin 3
Memory Seat 2	Yellow	-	Driver Door Lock Switch, black 10 pin plug, pin 7
Memory Seat 3	Blue/Orange	-	Driver Door Lock Switch, black 10 pin plug, pin 8
Radio 12V	Violet/Red	+	Radio behind display, black 32 pin plug, pin 1
Radio Ground	Black/Gray	-	Radio behind display, black 32 pin plug, pin 4
Radio Ignition	Green (delayed accessory)	+	Driver Kick, black 25 pin plug (C299), pin 2
Factory Amp Turn-on	Yellow/Violet (audio is A2B)	+	Radio behind display, gray 32 pin plug, pin 23
Left Front Speaker (+/-)	Blue - Gray/Brown	+,-	Radio behind display, black 32 pin plug, pins 8 - 7
Right Front Speaker (+/-)	Yellow/Orange - Green/Brown	+,-	Radio behind display, black 32 pin plug, pins 3 - 2
Left Rear Speaker (+/-)	Gray/Violet - Brown/Green	+,-	Radio behind display, black 32 pin plug, pins 6 - 5
Right Rear Speaker (+/-)	Green/Violet - Gray	+,-	Radio behind display, black 32 pin plug, pins 10 - 9

Item	Wire Color	Polarity	Wire Location
Left Front Speaker - With Amp	White - White/Brown	+,-	Amplifier on driver side rear cabin wall, black 20 pin plug, pins 17 - 7
Right Front Speaker - With Amp	White/Violet - White/Orange	+,-	Amplifier on driver side rear cabin wall, black 20 pin plug, pins 16 - 6
Left Front Tweeter - With Amp	Violet/Orange - Yellow/Orange	+,-	Radio behind display, black 32 pin plug, pins 6 - 5
Right Front Tweeter - With Amp	Green/Orange - Gray/Orange	+,-	Radio behind display, black 32 pin plug, pins 10 - 9
Left Rear Speaker - With Amp	White/Green - Brown/Yellow	+,-	Amplifier on driver side rear cabin wall, black 20 pin plug, pins 20 - 10
Right Rear Speaker - With Amp	Brown/White - Brown/Blue	+,-	Amplifier on driver side rear cabin wall, black 20 pin plug, pins 18 - 8
Subwoofer - With Amp	Green/Violet - Gray (coil 1); White - Blue/Green (coil 2)	+,-	Amplifier on driver side rear cabin wall, black 20 pin plug, pins 15 - 5 (coil 1); pins 19 - 9 (coil 2)
Aux. Audio Input Left (+/-)	Blue - Gray/Orange (SYNC audio)	+,-	Radio behind display, gray 32 pin plug, pins 20 - 31
Aux. Audio Input Right (+/-)	Violet/Green - Brown/White (SYNC audio)	+,-	Radio behind display, gray 32 pin plug, pins 21 - 32
Rearview Camera Video	White/Green - Blue/Gray (analog or SYNC Low); (COAX, SYNC High or 360)	+,-	SYNC Module behind display, black 54 pin plug, pins 14 - 15