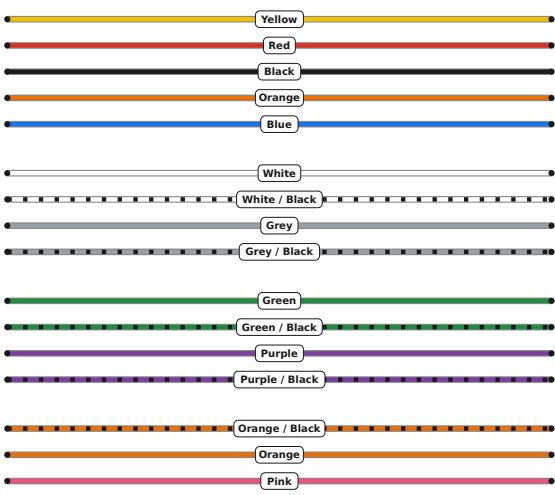


PVS Automotive MK4 Wiring Diagram, wire colours

Toyota 70 Series LandCruiser · 9 inch MK4 · every pin across seven connectors

16-PIN MAIN PLUG 16 way, one connector

2	BATT
3	ACC
1	GND
4	ILL
8	ANT+12V
15	OUT_FL+
13	OUT_FL-
11	OUT_FR+
9	OUT_FR-
12	OUT_RL+
10	OUT_RL-
14	OUT_RR+
16	OUT_RR-
7	KEY1
6	KEY2
5	BACK_CON



Factory Toyota Power Plug

Permanent +12V Battery
+12V Accessory, Switched
Ground
Illumination, Park Light Sense
Automatic Power Antenna

Front Speakers

Front Left, Positive
Front Left, Negative
Front Right, Positive
Front Right, Negative

Rear Speakers

Rear Left, Positive
Rear Left, Negative
Rear Right, Positive
Rear Right, Negative

Connector 3, Steering Wheel Controls and Factory Camera

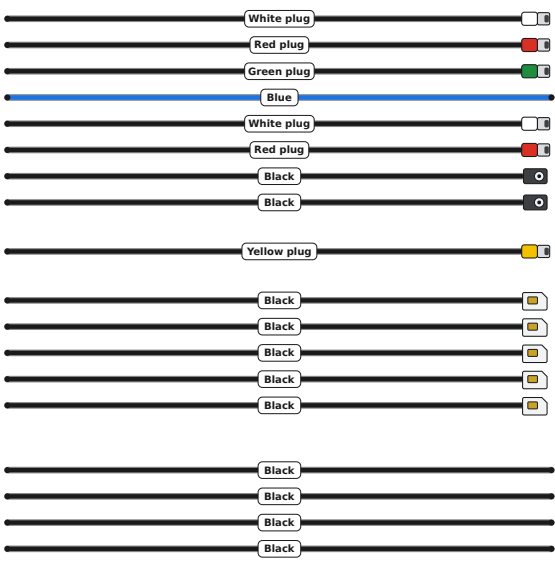
Steering Wheel Key 1
Steering Wheel Key 2
Reverse Detect

One plug. It carries power, both speaker pairs, the steering wheel lines and the reverse sense. Plug and play into the factory loom, nothing here is cut or joined.

The reverse sense arrives here on a factory camera install, which is why no trigger wire is needed.

HARNESS A 20 way

A4	RCA_FL
A6	RCA_FR
A16	SUB
A1	AMP_POW
A5	AUXIN_L
A3	AUXIN_R
A20	MIC+
A19	MIC-
A18	AUX_IN
A15	VDD_SIM0
A7	SIM0_DA
A11	SIM0_CLK
A9	SIM0_DET
A13	SIM0_RST
A2	GND
A8	GND
A10	GND
A12	GND



Front Pre-Out, AUX and Microphone

Front Left Pre-Out
Front Right Pre-Out
Subwoofer Output, a Pair of Green RCAs
External Amplifier Control
AUX Audio In, Left
AUX Audio In, Right
Microphone Positive. Shares One 3.5mm Socket With A20.
Microphone Negative. Shares One 3.5mm Socket With A20.

Video Input

AUX Video In. The Yellow RCA on Harness A.
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External SIM Card

SIM Supply
SIM Data
SIM Clock
SIM Detect
SIM Reset

A moulded card holder on the harness, so no loose wire carries these.

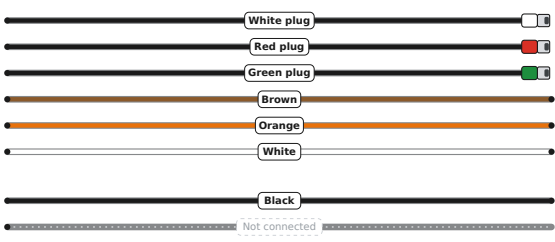
Grounds

Ground, Covers RCA_FL and RCA_FR
Ground, Covers AUXIN L and R
Ground, External SIM
Ground, Covers CVBS IN2

AUX_IN video is mutually exclusive with the 360 system. A14 DSM_IN and A17 AR_IN are not implemented on this unit.

HARNESS C 9 way

C3	ASL_OUT
C4	ASR_OUT
C2	CENTER-OUT
C6	SPDIF_OUT
C7	CAN_TXD
C8	CAN_RXD
C1	GND
C5	NC



C6 is the coaxial digital output, separate from the optical output on the board.

Rear Pre-Out, Centre Channel and CAN Box

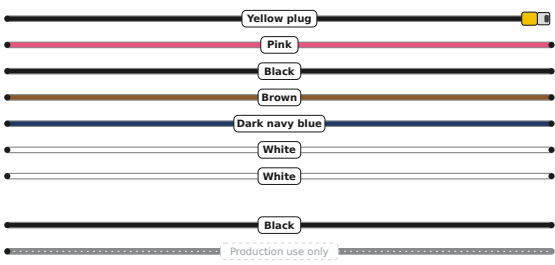
Rear Left Pre-Out
Rear Right Pre-Out
5.1 Centre Channel Out
Coaxial Digital Out
CAN to Protocol Box, Transmit
CAN From Protocol Box, Receive

Ground and Unused

Ground
Not Connected

HARNESS F 10 way

F6	CAM_CVBS
F7	CAM12_OUT
F8	CVBS_GND
F9	PARK_IN
F5	IR
F1	RXD_BOX
F3	TXD_BOX
F4	GND
F10	DOWN_LOAD



F10 is a factory flash pin. Production use only, never connected on an install.

Reverse Camera and Accessories

Reverse Camera Video In
Reverse Camera 12V Power Out
Reverse Camera Video Ground
Handbrake Detect
Infrared Remote Receiver. Terminated Short.
Expansion Box, Receive
Expansion Box, Transmit

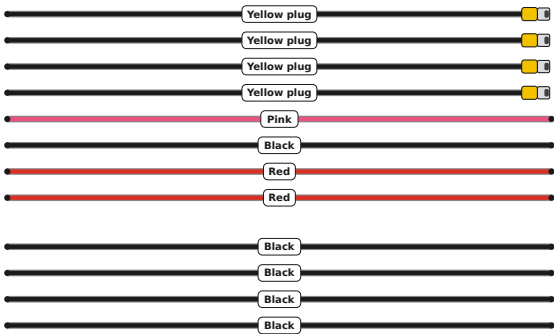
Ground and Production Pins

Ground
Emergency Flash Pin. Production Use Only.

HARNESS B 12 way

B4	F_CAM_VID
B8	REAR_CAM_VID
B10	L_CAM_VID
B6	R_CAM_VID
B1	L_TURN
B2	R_TURN
B11	360_5V
B12	360_5V
B3	GND
B5	GND
B7	GND
B9	GND

Not fitted on a standard install.



360 Degree Camera System

Front Camera In
Rear Camera In
Left Camera In
Right Camera In
Left Turn Detect
Right Turn Detect
Camera 5V Supply
Camera 5V Supply, Second Pin

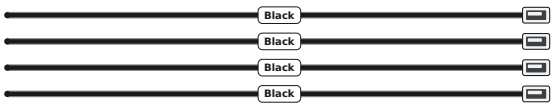
Grounds

Ground
Ground
Ground
Ground

HARNESS D 4 way

D1	USB_5V
D2	USB_DP0
D4	USB_DN0
D3	GND

USB0. This one supports OTG.



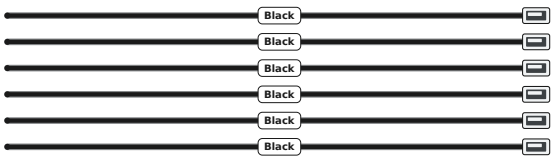
USB Port 0

USB Supply
USB0 Data Plus, OTG Capable
USB0 Data Minus, OTG Capable
Ground

HARNESS E 6 way

E1	USB_5V
E2	USB_DP1
E4	USB_DN1
E6	USB_DP2
E5	USB_DN2
E3	GND

Carries both USB1 and USB2.



USB Ports 1 and 2

USB Supply
USB1 Data Plus, CarPlay and Android Auto
USB1 Data Minus
USB2 Data Plus, Media and Accessories
USB2 Data Minus
Ground

PVS Automotive MK4 Wiring Diagram, pin numbers

Toyota 70 Series LandCruiser · 9 inch MK4 · every pin across seven connectors

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14	OUT_RR+
16	OUT_RR-
7	KEY1
6	KEY2
5	BACK_CON

2 BATT
3 ACC
1 GND
4 ILL
8 ANT+12V
15 OUT_FL+
13 OUT_FL-
11 OUT_FR+
9 OUT_FR-
12 OUT_RL+
10 OUT_RL-
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Rear Right, Positive
Rear Right, Negative

Connector 3, Steering Wheel Controls and Factory Camera

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Steering Wheel Key 2
Reverse Detect

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A6	RCA_FR
A16	SUB
A1	AMP_POW
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A3	AUXIN_R
A20	MIC+
A19	MIC-
A18	AUX_IN
A15	VDD_SIM0
A7	SIM0_DA
A11	SIM0_CLK
A9	SIM0_DET
A13	SIM0_RST
A2	GND
A8	GND
A10	GND
A12	GND

A4 RCA_FL	
A6 RCA_FR	
A16 SUB	
A1 AMP_POW	
A5 AUXIN_L	
A3 AUXIN_R	
A20 MIC+	
A19 MIC-	
A18 AUX_IN	
A15 VDD_SIM0	
A7 SIM0_DA	
A11 SIM0_CLK	
A9 SIM0_DET	
A13 SIM0_RST	
A2 GND	
A8 GND	
A10 GND	
A12 GND	

Front Pre-Out, AUX and Microphone

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Front Right Pre-Out
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External Amplifier Control
AUX Audio In, Left
AUX Audio In, Right
Microphone Positive. Shares One 3.5mm Socket With A19.
Microphone Negative. Shares One 3.5mm Socket With A20.

Video Input

AUX Video In. The Yellow RCA on Harness A.
--

External SIM Card

SIM Supply
SIM Data
SIM Clock
SIM Detect
SIM Reset

A moulded card holder on the harness, so no loose wire carries these.

Grounds

Ground, Covers RCA_FL and RCA_FR
Ground, Covers AUXIN L and R
Ground, External SIM
Ground, Covers CVBS IN2

AUX_IN video is mutually exclusive with the 360 system. A14 DSM_IN and A17 AR_IN are not implemented on this unit.

HARNESS C 9 way

C3	ASL_OUT
C4	ASR_OUT
C2	CENTER-OUT
C6	SPDIF_OUT
C7	CAN_TXD
C8	CAN_RXD
C1	GND
C5	NC

	C3 ASL_OUT	☐	B
	C4 ASR_OUT	☐	B
	C2 CENTER-OUT	☐	B
	C6 SPDIF_OUT		
	C7 CAN_TXD		
	C8 CAN_RXD		
	C1 GND		
	C5 NC		

Rear Pre-Out, Centre Channel and CAN Box

Rear Left Pre-Out
Rear Right Pre-Out
5.1 Centre Channel Out
Coaxial Digital Out
CAN to Protocol Box, Transmit
CAN From Protocol Box, Receive

Ground and Unused

Ground
Not Connected

C6 is the coaxial digital output, separate from the optical output on the board.

HARNESS F 10 way

F6	CAM_CVBS
F7	CAM12_OUT
F8	CVBS_GND
F9	PARK_IN
F5	IR
F1	RXD_BOX
F3	TXD_BOX
F4	GND
F10	DOWN_LOAD

	F6 CAM_CVBS	☐	☐
	F7 CAM12_OUT		
	F8 CVBS_GND		
	F9 PARK_IN		
	F5 IR		
	F1 RXD_BOX		
	F3 TXD_BOX		
	F4 GND		
	F10 DOWN_LOAD		

Reverse Camera and Accessories

Reverse Camera Video In
Reverse Camera 12V Power Out
Reverse Camera Video Ground
Handbrake Detect
Infrared Remote Receiver. Terminated Short.
Expansion Box, Receive
Expansion Box, Transmit

Ground and Production Pins

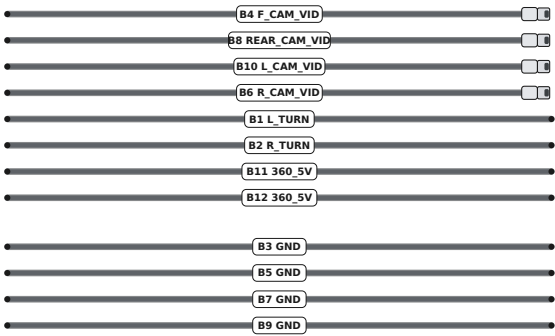
Ground
Emergency Flash Pin. Production Use Only.

F10 is a factory flash pin. Production use only, never connected on an install.

HARNESS B 12 way

B4	F_CAM_VID
B8	REAR_CAM_VID
B10	L_CAM_VID
B6	R_CAM_VID
B1	L_TURN
B2	R_TURN
B11	360_5V
B12	360_5V
B3	GND
B5	GND
B7	GND
B9	GND

Not fitted on a standard install.



360 Degree Camera System

Front Camera In
Rear Camera In
Left Camera In
Right Camera In
Left Turn Detect
Right Turn Detect
Camera 5V Supply
Camera 5V Supply, Second Pin

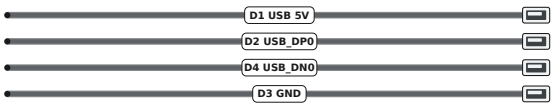
Grounds

Ground
Ground
Ground
Ground

HARNESS D 4 way

D1	USB_5V
D2	USB_DP0
D4	USB_DN0
D3	GND

USB0. This one supports OTG.



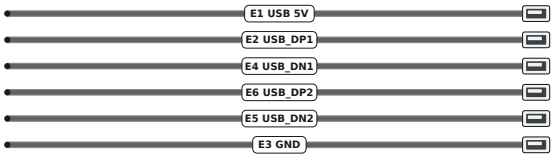
USB Port 0

USB Supply
USB0 Data Plus, OTG Capable
USB0 Data Minus, OTG Capable
Ground

HARNESS E 6 way

E1	USB_5V
E2	USB_DP1
E4	USB_DN1
E6	USB_DP2
E5	USB_DN2
E3	GND

Carries both USB1 and USB2.



USB Ports 1 and 2

USB Supply
USB1 Data Plus, CarPlay and Android Auto
USB1 Data Minus
USB2 Data Plus, Media and Accessories
USB2 Data Minus
Ground

RCA socket, female 3.5mm socket, female USB-A socket, female SIM card holder Bare wire or crimp terminal Colour not confirmed