2008 Toyota FJ Cruiser

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	blue/black (30A)	+	ignition switch, white 8 pin plug, pin 7
Second 12 Volts	white/blue (50A)	+	ignition switch, white 8 pin plug, pin 2
Starter	green/black	+	ignition switch, white 8 pin plug, pin 8
Second Starter	black/white	+	ignition switch, white 8 pin plug, pin 1
Ignition	black/red	+	ignition switch, white 8 pin plug, pin 6
Second Ignition	blue/yellow	+	ignition switch, white 8 pin plug, pin 4
Third Ignition	N/A		
Accessory	white/green	+	ignition switch, white 8 pin plug, pin 3
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	green/yellow	-	Body ECU on R edge of dash fuse box, top white 26 pin plug, pin 14
Data Bus	pink/green (RX), lt. green/red (TX)	data	Transponder Key Amplifier, black 7 pin plug, pins 4 and 5
Can Bus High	pink	data	data link connector, white 16 pin plug, pin 6
Can Bus Low	purple	data	data link connector, white 16 pin plug, pin 14
Can Bus Sw	N/A		
Power Lock	green/black	-	driver kick, white 18 pin plug, pin 4
Power Unlock	green/white to blue/orange	-	driver kick, white 18 pin plug, pin 5
Lock Motor	black/white to blue/red	5 wire	driver kick, white 13 pin plug, pin 8
Unlock Motor	black/red to blue/black	5 wire	driver kick, white 13 pin plug, pin 13
Disarm Defeat	blue/black	5 wire	dash fuse box, rear, white 24 pin plug (1L), pin 18
Parking Lights (+)	green	+	dash fuse box, white 16 pin plug (1F), pin 13
Parking Lights (-)	green	-	Body ECU on R edge of dash fuse box, top white 26 pin plug, pin 8
Hazards	white	-	A/C Amplifier behind radio, white 20 pin plug, pin 19
Turn Signal (Left)	blue/white	+	dash fuse box, white 16 pin plug (1F), pin 9
Turn Signal (Right)	pink	+	dash fuse box, white 16 pin plug (1F), pin 15

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	red	-	Body ECU on R edge of dash fuse box, top white 26 pin plug, pin 1
AutoLights	N/A		
Reverse Light	red/yellow	+	dash fuse box, white 16 pin plug (1F), pin 10
Left Front Door Trigger	red/black	-	Body ECU on R edge of dash fuse box, middle wht 24 pin plg, pin 23
Right Front Door Trigger	green/yellow	-	Body ECU, middle white 24 pin plug, pin 24
Left Rear Door Trigger	pink/black	-	Body ECU, middle white 24 pin plug, pin 11
Right Rear Door Trigger	pink/blue	-	Body ECU, middle white 24 pin plug, pin 12
Dome Supervision	white	-	dash fuse box, white 20 pin plug (1A), pin 8
Trunk/Hatch Pin	white	-	Body ECU on R edge of dash fuse box, middle wht 24 pin plug, pin 7
Rear Glass Pin	same as trunk/hatch pin		
Hood Pin	N/A		
Trunk Hatch/Release	use trunk release motor		
Trunk Release Motor	blue/yellow (glass hatch)	5 wire	Back Door ECU in tailgate, wht 25 pin plug, pin 13
Fuel Door Release	N/A		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	blue (driver door key lock)	-	driver kick, white 18 pin plug, pin 6
Factory Alarm Disarm	pink (driver door key unlock)	double -	driver kick, white 18 pin plug, pin 8
Disarm No Unlock	use keysense		
Trunk Alarm Shunt	N/A		
Tachometer	black/white	ac	data link connector, white 16 pin plug, pin 9
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	black/yellow	+	clutch switch, black 2 pin plug, pin 2
Fuel Pump	black/red	+	driver kick, white 2 pin plug, pin 2
Rear Defroster	yellow/purple	- latched	driver kick, blue 18 pin plug, pin 15
Mirror Defroster	N/A		
Left Front Heated Seat	N/A		
Right Front Heated Seat	N/A		

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	purple/red	ac	A/C Control Assembly, white 24 pin plug, pin 21
Brake Wire	green/yellow	+	brake switch or dash fuse box, white 16 pin plug (1F), pin 16
Parking Brake	white/red	-	parking brake switch or dash fuse box, white 24 pin plug (1E), pin 1
Horn Trigger	green/red	-	horn sw or Body ECU on R edge of dash FB, bttm wh 30 pin plg, pin 6
Wipers	blue/black (low), blue/red (high), blue (ignition)	+	wiper switch, black 18 pin plug, pins 7, 8, and 17
Left Front Window (Up/Down)	blue - blue/black	A	power window master switch, gray 10 pin plug, pins 3 and 4
Right Front Window (Up/Down)	red/black - red	A	driver kick, white 13 pin plug, pins 7 and 12
Left Rear Window (Up/Down)	N/A		
Right Rear Window (Up/Down)	N/A		
Sun Roof (Open/Close)	N/A		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	blue/yellow	+	radio
Radio Ground	brown	-	radio
Radio Ignition	gray	+	radio
Radio Illumination	green	+	radio
Factory Amp Turn-on	pink/blue (subwoofer amp)	+	radio
Power Antenna	N/A		
Left Front Speaker (+/-)	pink - purple	+,-	radio
Right Front Speaker (+/-)	lt. green - blue	+,-	radio
Left Rear Speaker (+/-)	black - yellow	+,-	radio
Right Rear Speaker (+/-)	red - white	+,-	radio
Center Channel (+/-)	N/A		
Subwoofer (+/-)			
Aux. Audio Input Left (+/-)			
Aux. Audio Input Right (+/-)			
RSE Video (+/-)			
RSE Audio Left (+/-)			

RSE Audio Right (+/-)		
Satellite Radio 12 Volts		
Satellite Radio Ground		
Satellite Radio Ignition		
Satellite Radio Antenna		
Satellite Audio Left (+/-)		
Satellite Audio Right (+/-)		

What Fits

Item	Size	Depth	Location
Headunit	double DIN		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter	2.6		left front dash
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	2.6		right front dash
Left Rear Speaker			left rear ceiling
Left Rear Tweeter	2.6		left rear pillar
Right Rear Speaker			right rear ceiling
Right Rear Tweeter	2.6		right rear pillar
Center Channel	N/A		
Subwoofer	8.0		right rear quarter panel
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			RR quarter panel (XM); above pass kick (Sirius)

Additional Wiring Notes

Item	Note
Left Front Door Trigger	Can also use purple/yellow (-) (door ajar indicator) at the Body ECU on R edge of dash fuse box, top white 26 pin plug, pin 12, which will catch all the doors.
Data Bus	The immobilizer light is purple/white (+) at the A/C Amplifier behind radio, white 20 pin plug, pin 15. The IMO - IMI are blue/orange - white/red at the Engine Control Module behind glove box, white 35 pin plug (E46, second plug from bottom), pins 15 and 16.
Power Lock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm arm wire.
Power Unlock	This wire is only needed if the door locks do not function with the aftermarket system while the vehicle is running. All other times just use the factory alarm disarm wire.