2007 Mazda RX-8

Wiring Information

Item	Wire Color	Delevity	Wire Location
		Polarity	
12 Volts	yellow (15A)	+	ignition harness
Second 12 Volts	N/A		
Starter	white/blue	+	ignition harness
Second Starter	N/A		
Ignition	blue/black or black/yellow	+	ignition harness
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	blue/green	+	ignition harness
Second Accessory	white/red	+	ignition harness
Third Accessory	N/A		
Key Sense	pink/black	+	ignition harness
Data Bus			
Can Bus High			
Can Bus Low			
Can Bus Sw			
Power Lock	lt. green	-1000 ohms	driver kick, door harness
Power Unlock	same as power lock wire	-	
Lock Motor	red/blue	5 wire	driver kick, door harness
Unlock Motor	red/black	5 wire	driver kick, door harness
Disarm Defeat	green	5 wire	passenger kick, door harness
Parking Lights (+)	black/red	+	driver kick, harness to rear
Parking Lights (-)	lt. green	-	headlight switch
Hazards	orange	-	hazard switch
Turn Signal (Left)	green/yellow	+	turn signal switch
Turn Signal (Right)	black/red	+	turn signal switch

DirectWire Vehicle Information - 12/7/2009 5:20:31 AM

Wiring Information (Continued)

AutoLights Reverse Light red/yellow + driver kick, harness to rear Left Front Door Trigger black/blue - driver kick, harness to rear Right Front Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Revenue Right Revenue Right Revenue Right Revenue Right Revenue Revenue Right Revenue Right Revenue Revenue Right Revenue Revenue Right Revenue Re	Item	Wire Color	Polarity	Wire Location
AutoLights Reverse Light red/yellow + driver kick, harness to rear Left Front Door Trigger black/blue - driver kick, harness to rear Right Front Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Rear Door Trigger same as left front door trigger Right Revenue Right Revenue Right Revenue Right Revenue Right Revenue Revenue Right Revenue Right Revenue Revenue Right Revenue Revenue Right Revenue Re	Headlight	yellow/red	-	headlight switch
Left Front Door Trigger Right Front Door Trigger Same as left front door trigger Left Rear Door Trigger Same as left front door trigger Right Rear Door Trigger Same as left front door trigger Right Rear Door Trigger Same as left front door trigger Same as left front door trigger Same as left front door trigger Dome Supervision Green/black G	AutoLights			_
Right Front Door Trigger Left Rear Door Trigger Left Rear Door Trigger Same as left front door trigger Dome Supervision Green/black Grunk/Hatch Pin Grear Glass Pin Hood Pin Hood Pin Hood Pin House Bease Bottor Fuel Door Release Power Sliding Door (Left) Power Sliding Door (Right) Factory Alarm Arm Grear Glasm Disarm Disarm Disarm Disarm Disarm Same as factory alarm arm wire Factory Alarm Shunt Fachometer NOT black/white, black, or white/blue N/A Note Start Note Start N/A Note Start Note Start N/A Note Start Note St	Reverse Light	red/yellow	+	driver kick, harness to rear
Right Front Door Trigger Left Rear Door Trigger Left Rear Door Trigger Same as left front door trigger Dome Supervision Green/black Grunk/Hatch Pin Grear Glass Pin Hood Pin Hood Pin Hood Pin House Bease Bottor Fuel Door Release Power Sliding Door (Left) Power Sliding Door (Right) Factory Alarm Arm Grear Glasm Disarm Disarm Disarm Disarm Disarm Same as factory alarm arm wire Factory Alarm Shunt Fachometer NOT black/white, black, or white/blue N/A Note Start Note Start N/A Note Start Note Start N/A Note Start Note St	Left Front Door Trigger	black/blue	-	driver kick, harness to rear
Right Rear Door Trigger Dome Supervision green/black - driver kick, harness to rear drunk/Hatch Pin Brown Rear Glass Pin N/A Hood Pin purple/white yellow - pin switch under hood frunk Release Power Sliding Door (Left) Power Sliding Door (Right) Factory Alarm Disarm Factory Alarm Disarm Factory Alarm Shunt Fachometer NOT black/white, black, or white/blue N/A Not start Not Dedal Fund Release Not black white, black, or white/blue Factory Bafety Clutch Pedal Fund Start Factory Bafety Clutch Pedal Fund Start Not Defoster Mirror Defroster Left Front Heated Seat	Right Front Door Trigger	same as left front door trigger		
Green/black -	Left Rear Door Trigger	same as left front door trigger		
Trunk/Hatch Pin brown - driver kick, harness to rear Rear Glass Pin N/A Hood Pin purple/white - pin switch under hood Trunk Hatch/Release yellow - release switch Trunk Release Motor Fuel Door Release Power Sliding Door (Left) N/A Power Sliding Door (Right) N/A Factory Alarm Arm green/red -1000 ohms driver kick, door harness Factory Alarm Disarm same as factory alarm arm wire - Disarm No Unlock Frunk Alarm Shunt Fachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Right Rear Door Trigger	same as left front door trigger		
Rear Glass Pin N/A Hood Pin purple/white - pin switch under hood Frunk Hatch/Release yellow - release switch Frunk Release Motor Fuel Door Release Power Sliding Door (Left) N/A Power Sliding Door (Right) N/A Factory Alarm Arm green/red -1000 ohms driver kick, door harness Factory Alarm Disarm same as factory alarm arm wire - Disarm No Unlock Frunk Alarm Shunt Fachometer NOT black/white, black, or white/blue Wait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Wirror Defroster Left Front Heated Seat	Dome Supervision	green/black	-	driver kick, harness to rear
Pool Pin	Trunk/Hatch Pin	brown	-	driver kick, harness to rear
Frunk Hatch/Release Motor Fuel Door Release Power Sliding Door (Left) Power Sliding Door (Right) Factory Alarm Arm Power Sliding Door (Right) Factory Alarm Disarm Same as factory alarm arm wire Factory Alarm Shunt Fachometer NOT black/white, black, or white/blue Nait to Start Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Left Front Heated Seat	Rear Glass Pin	N/A		
Frunk Release Motor Fuel Door Release Power Sliding Door (Left) N/A Power Sliding Door (Right) Factory Alarm Arm Green/red Factory Alarm Disarm Factory Alarm Disarm Same as factory alarm arm wire Factory Alarm Shunt Fachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Hood Pin	purple/white	-	pin switch under hood
Fuel Door Release Power Sliding Door (Left) N/A Power Sliding Door (Right) N/A Factory Alarm Arm Green/red Same as factory alarm arm wire Disarm No Unlock Frunk Alarm Shunt Fachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Trunk Hatch/Release	yellow	-	release switch
Power Sliding Door (Left) N/A Power Sliding Door (Right) N/A Factory Alarm Arm Green/red Same as factory alarm arm wire Disarm No Unlock Trunk Alarm Shunt Tachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Trunk Release Motor			
Power Sliding Door (Right) Factory Alarm Arm Green/red Same as factory alarm arm wire Disarm No Unlock Frunk Alarm Shunt Fachometer NOT black/white, black, or white/blue Not Start Not Start	Fuel Door Release			
Factory Alarm Arm green/red -1000 ohms driver kick, door harness Factory Alarm Disarm same as factory alarm arm wire - Disarm No Unlock Trunk Alarm Shunt Fachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Left Front Heated Seat	Power Sliding Door (Left)	N/A		
Factory Alarm Disarm Same as factory alarm arm wire Disarm No Unlock Trunk Alarm Shunt Tachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Power Sliding Door (Right)	N/A		
Disarm No Unlock Trunk Alarm Shunt Tachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Factory Alarm Arm	green/red	-1000 ohms	driver kick, door harness
Trunk Alarm Shunt Tachometer NOT black/white, black, or white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Factory Alarm Disarm	same as factory alarm arm wire	-	
NoT black/white, black, or white/blue ac any ignition coil or fuel injector white/blue Nait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Disarm No Unlock			
White/blue Wait to Start N/A Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Trunk Alarm Shunt			
Neutral Safety Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Tachometer		ac	any ignition coil or fuel injector
Clutch Pedal Fuel Pump Rear Defroster Mirror Defroster Left Front Heated Seat	Wait to Start	N/A		
Rear Defroster Mirror Defroster Left Front Heated Seat	Neutral Safety			
Rear Defroster Mirror Defroster Left Front Heated Seat	Clutch Pedal			
Mirror Defroster Left Front Heated Seat	Fuel Pump			
Left Front Heated Seat	Rear Defroster			
	Mirror Defroster			
Right Front Heated Seat	Left Front Heated Seat			
-	Right Front Heated Seat			

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	green/red	ac	radio harness
Brake Wire	black/blue	+	brake pedal switch
Parking Brake	gray	-	parking brake switch
Horn Trigger	green/blue to green/orange	-	horn switch
Wipers	blue/white (L), red (H)	+	windshield wiper switch
Left Front Window (Up/Down)	yellow/green - red/black	Α	driver window switch in door
Right Front Window (Up/Down)	lt. green/black - green/white	Α	driver kick, door harness
Left Rear Window (Up/Down)	N/A		
Right Rear Window (Up/Down)	N/A		
Sun Roof (Open/Close)	motor part of module		
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	blue/red	+	radio harness
Radio Ground	black	-	radio harness
Radio Ignition	green/orange	+	radio harness
Radio Illumination	red/yellow	+	radio harness
Factory Amp Turn-on			
Power Antenna			
Left Front Speaker (+/-)	red - white	+,-	radio harness or amplifier
Right Front Speaker (+/-)	white/red - yellow/red	+,-	radio harness or amplifier
Left Rear Speaker (+/-)	purple - pink	+,-	radio harness or amplifier
Right Rear Speaker (+/-)	white/blue - black/blue	+,-	radio harness or amplifier
Center Channel (+/-)			
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	irregular		center of dash
Left Front Speaker	6 x 8	4	left front door
Left Front Tweeter			
Right Front Speaker	6 x 8	4	right front door
Right Front Tweeter			
Left Rear Speaker	6 x 8	4	left rear deck
Left Rear Tweeter			
Right Rear Speaker	6 x 8	4	right rear deck
Right Rear Tweeter			
Center Channel			
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

Smart Starter Kill Relay

Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

	Notes:
n/a	
	Alternate Part Notes:
n/a	

Immobilizer Bypass Module

Required:	Yes
Type:	Transponder
Part #:	XK04
Alternate Part #'s:	1100F/1100X, 1101T, 20402, 29402, 556SW, 556UW

Notes:

Standard on all models. When using the 1100X, a software change to 1100FM is needed. The 1101T is for models equipped with the proximity key.

Door Lock Interface Module

Required:	No
Type:	Multiplex
Part #:	456LW
Alternate Part #'s:	

Notes:	

Additional Wiring Notes

Item	Note
Power Lock	Lock is negative trigger thru a 1,000 ohm resistor. Unlock is a straight negative trigger. MUST use relays. Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Left Front Door Trigger	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Trunk/Hatch Pin	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Hood Pin	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Factory Alarm Arm	Arm is negative trigger thru a 1,000 ohm resistor. Disarm is a straight negative trigger. MUST use relays. Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Horn Trigger	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Left Front Speaker (+/-)	The amplifier is in the passenger side of the trunk.
Lock Motor	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Brake Wire	Can also use black/yellow (+) in the driver kick, harness to rear.
Key Sense	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Driver Unlock Motor	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Hazards	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Dome Supervision	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Trunk Hatch/Release	Also found at the keyless control module above the passenger side kick panel or behind the glove box.
Passenger Unlock Motor	Also found at the keyless control module above the passenger side kick panel or behind the glove box.