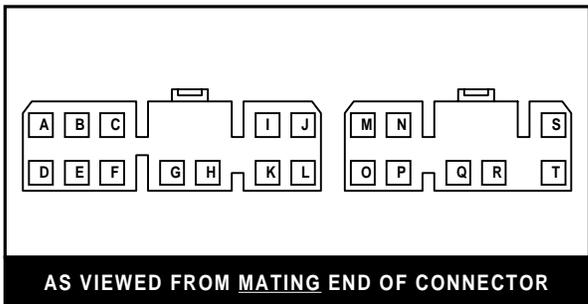


Mazda Radio Wire Harnesses

1992 And Newer



Pin	What It Is	Typical Mazda Radio In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	+12 Volt Ignition Wire	Blue w/ Black Stripe	Red
B	+12 Volt Battery Wire	Blue w/ Red Stripe	Yellow
C		Do Not Use	
D		Do Not Use	
E	Power Antenna Turn On	not available	Blue
F		Do Not Use	
G		Do Not Use	
H		Do Not Use	
I	Left Front Speaker (+)	Purple	White
J	Right Front Speaker (+)	Orange	Gray
K	Left Front Speaker (-)	Blue w/ Orange Stripe	White w/ Black Stripe
L	Right Front Speaker (-)	White	Gray w/ Black Stripe
M	Left Rear Speaker (+)	White w/ Blue Stripe	Green
N		Do Not Use	
O	Left Rear Speaker (-)	Black w/ Blue Stripe	Green w/ Black Stripe
P			
Q	Right Rear Speaker (+)	Blue w/ White Stripe	Purple
R	Right Rear Speaker (-)	Blue	Purple w/ Black Stripe
S		Do Not Use	
T		Do Not Use	

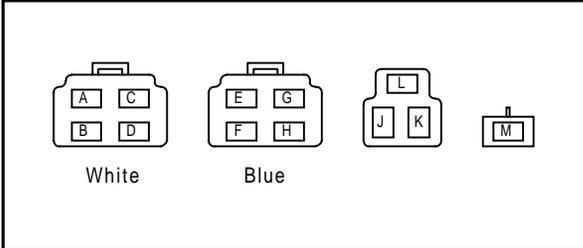
TIP: Crimp a **male tab spade** to the new radios ground wire. Slide it into the brown female tab spade connector that originally snapped into the tab on the rear of the factory radio.

Note: using an optional snap on wire harness adapter will simplify the wiring. Most snap on wire harness adapters have already converted and color coded the wires from the auto makers in dash wire harness to match typical aftermarket radio wire colors.

** The wire colors listed in the chart above are typical for these vehicles during these years but may not be the exact colors for this vehicle. This is another reason to use a snap on wire harness adapter. **

Mazda Radio Wire Harnesses

1983 to 1992



AS VIEWED FROM MATING END OF CONNECTOR

INSTALLATION NOTE:

For vehicles with power antennas

Every auto manufacturer uses a (+) positive electric signal from the radio to the power antenna, EXCEPT Mazda up to 1992. Mazda, instead, used a (-) negative electric signal to trigger the power antenna. When the radio turned on, the radio would send a (-) negative electric signal to the power antenna and the power antenna would raise. When the radio or the vehicle was turned off, the electric signal would stop and the power antenna would lower. In order for a new replacement radio to activate a Mazda power antenna up to 1992, a SPDT relay must be used. See diagram below.

Pin	What It Is	Typical Mazda Radio In Dash Wire Color	Typical New Radio Equivalent Wire Color
A	Left Front Speaker (+)		White
B	Left Front Speaker (-)		White w/ Black Stripe
C	Right Front Speaker (+)		Gray
D	Right Front Speaker (-)		Gray w/ Black Stripe
E	Left Rear Speaker (+)		Green
F	Left Rear Speaker (-)		Green w/ Black Stripe
G	Right Rear Speaker (+)		Purple
H	Right Rear Speaker (-)		Purple w/ Black Stripe
J	Dash Light Illumination	<i>Typically Not Used</i>	Orange
K	(+) 12 Volt Ignition Wire		Red
L	Power Antenna Wire		Blue or Blue w/ Wht Stripe
M	(+) Volt Battery Wire	<i>See Tip Below</i>	Yellow

TIP: For Pin M: (+) 12 Volt Battery Wire
Crimp a male tab spade connector onto the (+) 12 Volt Memory or Battery wire from your new radio and slide it into Pin M.

Convert A (+) Positive Voltage Wire To A (-) Negative Voltage Or Ground Wire

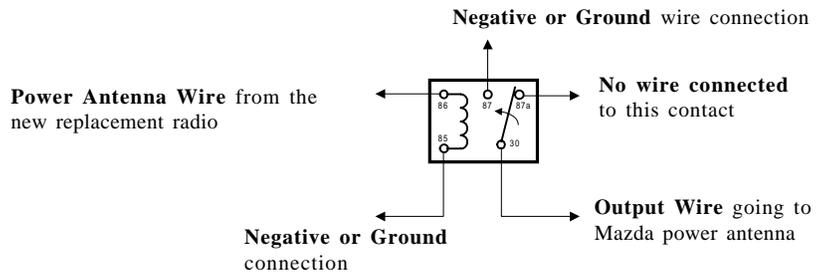
Application: To convert Mazda power antennas up to 1992 to work with new replacement radios

Understand: A (+)12 Volt wire connected to the inductor coil (85 or 86) will switch the relay to connect a (-) negative wire to the output contact (from 87 to 30)

Relay Contact Connections

- 30:** (-) Output from relay to Mazda power antenna
- 87:** (-) Negative or ground wire connected to relay
- 86:** Power antenna wire from new replacement radio
- 85:** (-) Negative or ground wire

For best results and quicker installation, use the same (-) negative or ground wire for both 85 and 87



When the radio turns on, the (+) 12 Volt power antenna wire will turn on the relay, moving the contact arm from pin 87a to the (-) negative ground wire attached to pin 87 which is also in contact with pin 30 which is connected to the Mazda power antenna.

Note: using an optional snap on wire harness adapter will simplify the wiring. Most snap on wire harness adapters have already converted and color coded the wires from the auto makers in dash wire harness to match typical aftermarket radio wire colors.

** The wire colors listed in the chart above are typical for these vehicles during these years but may not be the exact colors for this vehicle. This is another reason to use a snap on wire harness adapter. **