

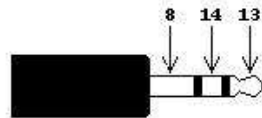
Vehicle Improvement Products, Inc.
151 S. Ram Road
Antioch, IL 60002
847-395-7250

SM301 Radio Functionality

See VIP drawing number 002047-E1V-00 for wiring diagram.
This information is current with SM301 software revision 2.1.
Pin numbers and functions from connector number SM301 J1:

Pin 5: Radio Select 'A'
Pin 6: Radio Select 'B'
Pin 7: Radio Select 'C'

Pin 8: Radio Ground – Attached to lowest ring of stereo plug
Pin 14: Radio Out 2 – Attached to middle ring of stereo plug
Pin 13: Radio Out 1 – Attached to tip of stereo plug



Note: Some radios may require a different pin configuration for the stereo plug. Please consult the radio manufacturer installation diagram.

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Radio Pin Select Table			
Radio Model	Radio Select A	Radio Select B	Radio Select C
Pioneer 1	Ground	Ground	Open
Pioneer 2	Ground	Ground	Vbatt
Jensen / XSG2NA	Ground	Open	Ground
Magnadyne 1	Ground	Open	Open
Magnadyne 2	Ground	Open	Vbatt
Panasonic 1	Ground	Vbatt	Ground
Panasonic 2	Ground	Vbatt	Open
Panasonic 3	Ground	Vbatt	Vbatt
Panasonic 4	Open	Ground	Ground
JVC 1	Open	Ground	Open
JVC 2	Open	Ground	Vbatt
Alpine	Open	Open	Ground
Clarion	Open	Open	Vbatt
Byron	Open	Vbatt	Ground
Kenwood 1	Open	Vbatt	Open
Kenwood 2	Open	Vbatt	Vbatt
Valor	Vbatt	Ground	Ground
OEM	Vbatt	Ground	Open
Blaupunkt	Vbatt	Ground	Vbatt
Delphi	Vbatt	Open	Ground

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The following table explains the paddle function per radio's currently accounted for:

Preliminary V44 SmartWheel Paddle Switch Definitions				
Radio	Upper Right Up/Down	Lower Right Up/Down	Upper Left Up/Down	Lower Left Up/Down
Pioneer 1	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Pioneer 2	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Jensen / XSG2NA	Volume Up/Down	Frequency Up/Down	Power/Mute	CAT +/CAT -
Magnadyne 1	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Magnadyne 2	Volume Up/Down	Frequency Up/Down	Power/Mute	Preset Up/Down
Panasonic 1	Volume Up/Down	Frequency Up/Down	Power/Mute	Preset Up/Down
Panasonic 2	Volume Up/Down	Frequency Up/Down	Power/Mute	Seek Up/Down
Panasonic 3	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Panasonic 4	Volume Up/Down	Frequency Up/Down	Power/Mute	CAT +/CAT -
JVC 1	Volume Up/Down	Frequency Up/Down	Power-Mute /Source	CAT +/Band
JVC 2	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Alpine	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Clarion	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Byron	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Kenwood 1	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Kenwood 2	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Valor	Volume Up/Down	Frequency Up/Down	Source/Mute	CAT +/CAT -
OEM	Volume Up/Down	Frequency Up/Down	Source/Mute	Mode/Band
Blaupunkt	Volume Up/Down	Frequency Up/Down	Source/Mute	CAT +/CAT -
Delphi	Volume Up/Down	Frequency Up/Down	Power/Mute	Mode/Band
Note: Functions may vary due to differences in radio model lines and changes by radio manufacturers.				

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