



Figure 5 2011–2014.5 VSIM 24-way Connector

Table 2 2011–2014.5 VSIM 24-way Connector Pinout

Cavity	Circuit	Function	Upfitter Requirements
1	W500 20BR/OR	Front flashing lights (WigWags) 12V input to VSIM	None - current limiting resistor is internal to VSIM
2	W501 20BLK	Rear flashing lights (WigWags) 12V input to VSIM	None - current limiting resistor is internal to VSIM
3	W511 20BR/WT	Police radio input 12V input to VSIM	None - current limiting resistor is internal to VSIM
4	W512 20BR/VT	Brake lamp switch sense 10V output from VSIM	N/A
5	W513 20BR/GY	Horn switch sense 9V output when horn is pressed	None - current limiting resistor is internal to VSIM
6	W514 20BR/YL	P/N switch sense 10V Output from VISM	
7	W515 20BR/LB	VTSS/Panic alarm ON signal 9V Output from VSIM	N/A
8	W516 20BR/DB	Headlamp switch sense 10V Output from VSIM	N/A
9	W517 20BR/LG	Side airbag status signal 12V Output from VSIM when airbag deploys	N/A
10	W518 20BR/DG	Front airbag status signal 12V Output from VSIM when airbag deploys	N/A

Cavity	Circuit	Function	Upfitter Requirements
11	W530 20BR/DG	VSIM CAN-B bus (+)	N/A
12	W531 20BR/LG	VSIM CAN-B bus (-)	N/A
13	W521 20BR/WT	Cluster dimming sense 12V Output from VSIM	N/A
14	W522 20BR/VT	Engine running signal 10V Output from VSIM	N/A
15	W523 20BR/GY	Driver door ajar switch sense 10V Output from VSIM with door open	N/A
16	Z384 20BK	Signal ground that is noise suppressed	N/A
17	NOT USED	NOT USED	N/A
18	NOT USED	NOT USED	N/A
19	W526 20BR/DB	Vehicle speed signal 12V 10 Hz/mph pulse-width modulated	N/A
20	W536 20BR/YL	Horn mute signal 12V, 20 mA Input to VSIM disables horn function	NONE - Current limiting resistor is internal to the VSIM
21	W537 20BR/VT	VTSS mute signal 12V, 20 mA Input to VSIM	NONE - Current limiting resistor is internal to the VSIM
22	W538 20BR/OR	Fuel level status signal 12V PWM Output	N/A
23	W539 20BR/DB	Driver seatbelt switch sense 10V Output from VSIM when buckled	N/A
24	W540 20BR/DG	MIL Malfunction indicator lamp 9V Output from VSIM when MIL is on	N/A

Connect Here

