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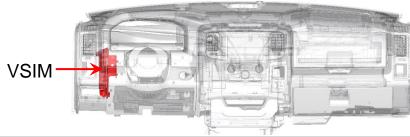
VSIM (VEHICLE SYSTEM INTERFACE MODULE) USAGE INSTRUCTIONS

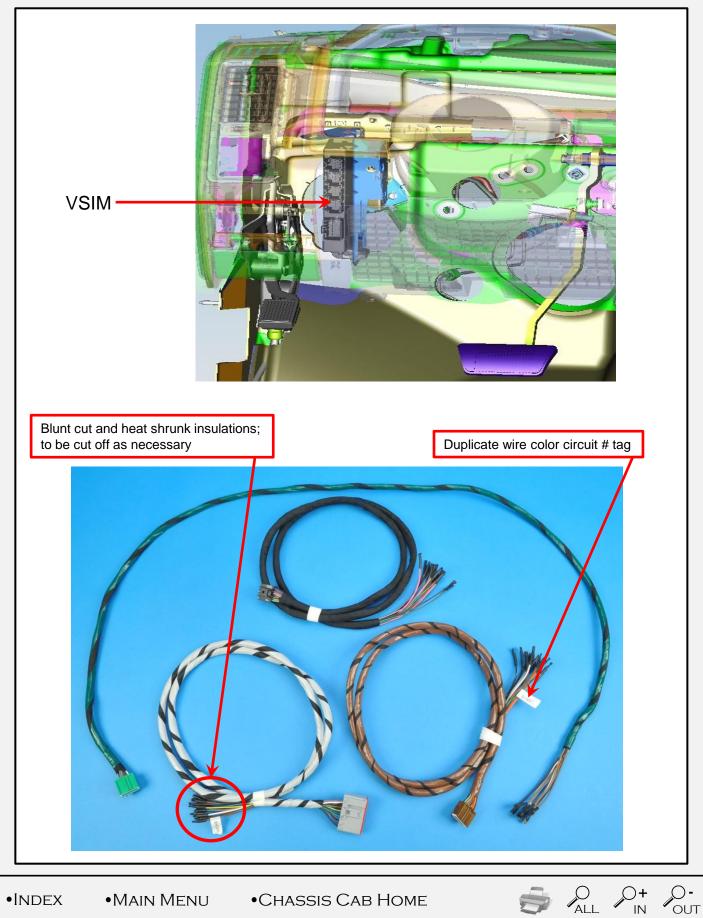
Overview:

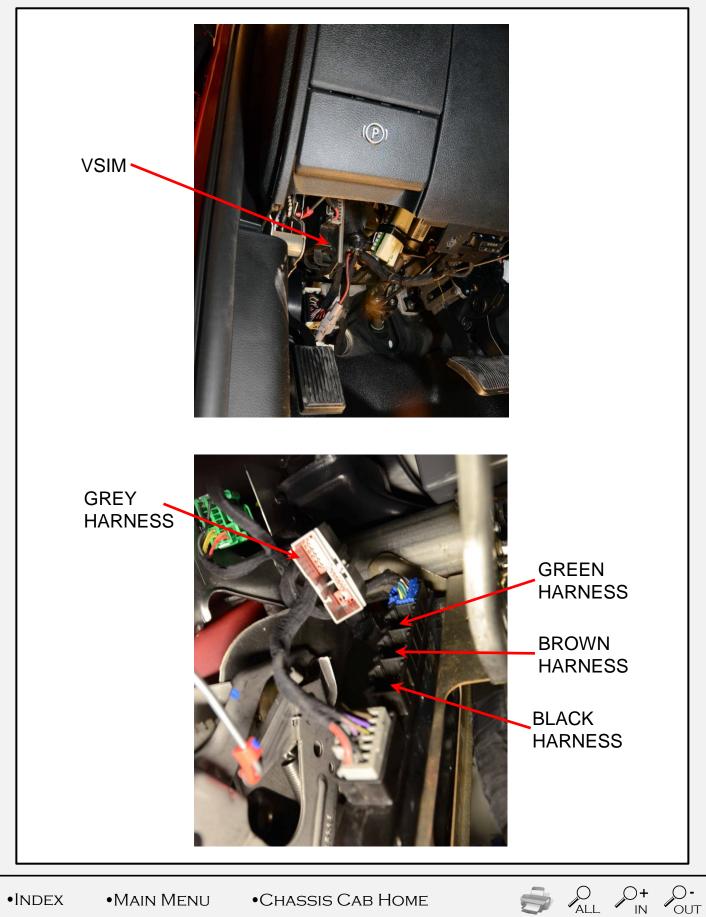
New for 2013 is a RAM Truck engineered upfitter module called the VSIM (Vehicle System Interface Module). Its sales code is "XXS" and is standard with Ambulance Prep (sales code AH2), a "must have" option with PTO Prep (sales codes LBN or LBV), and is available as a stand-alone option. It provides a multitude of useful I/O's to increase upfitter friendliness and upfit simplification.

Specifics:

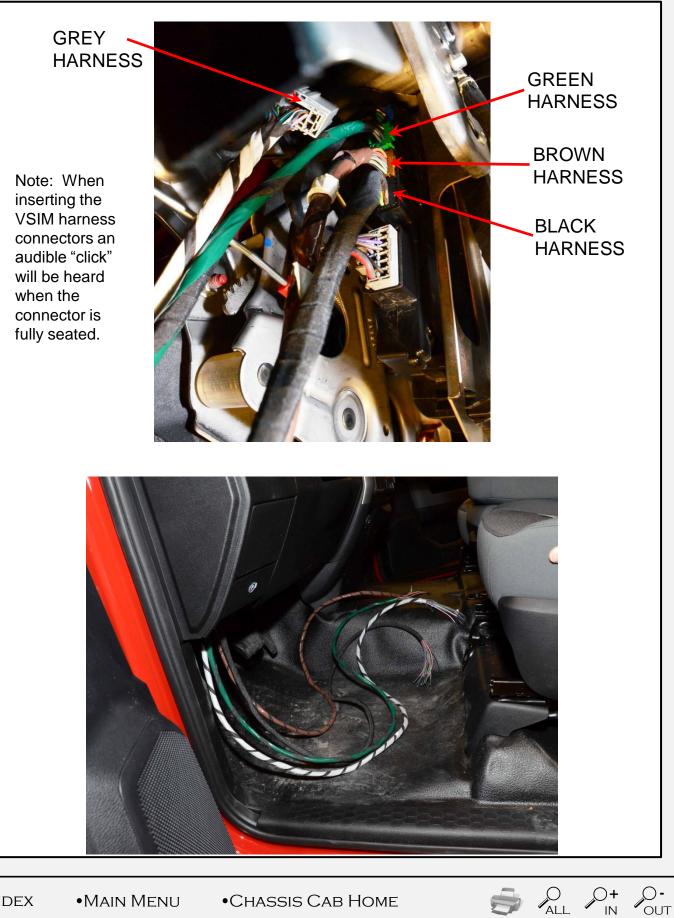
- 1. Ghost drawings showing the module location within the dash panel.
- 2. The VSIM includes an upfitter wire harness kit (part number 68211680AA or 68211680AB) consisting of four separate color coded harness bundles. Each individual color harness must only be plugged into its corresponding VSIM connector cavity, see photos below showing harness color installations.
- 3. A photo of the four individual color coded VSIM upfitter harness bundles. Note that in a few instances an individual wire color is duplicated within a bundle these duplications are further identified with a paper "flag" showing its circuit number. It's recommended that the upfitter, upon harness bundle routing direction determination(s), install additional harness bundle abrasion protection over each bundle (such as harness convolute).
- 4. Photos showing module installation within a vehicle and harness bundles.
- 5. A chart below delineates the circuits within each color harness bundle, circuit number, signal, wire insulation colors, <u>maximum allowable amperage</u> per circuit, and <u>circuit function</u>.
- 6. A chart below delineates the available 125 kbaud CAN bus messages. If downloadable "DBC" files are needed, they should be requested via the website rambbg@chrysler.com.
- 7. Note 1: Eight "pairs" of "output" circuits may require additional circuitry for proper function. These are flagged in the VSIM chart with an asterisk (*) in front of the Circuit # and yellow hi-lite in the box. If any these output circuits are being used and unless <u>both</u> circuits of a given pair are connected to an external load (e.g. a LED, incandescent bulb, upfitter module input, relay coil, etc.), an external resistor must be added to the one circuit of the pair that is not being used for another purpose. This requires a dedicated $1K\Omega$, $\geq 0.5W$ resistor for each individual circuit. See below for the VSIM chart delineating the "pairs" circuits that require an external resistor and the accompanying appropriate circuit diagram.
- 8. Note 2: six "output" circuits require "pull-up" resistors for proper function, if the circuit output is to be used. These circuits are flagged in the VSIM chart with a pound sign (#) in front of the circuit number and light blue hilite in the box. These circuits require a dedicated 1K-2.2KΩ, ≥0.5W resistor for each individual circuit. See below for the VSIM chart delineating the circuits requiring a "pull-up" resistor and the accompanying appropriate circuit diagram.
- 9. Note 3: PTO idle speed circuits W541, W542, W543 can only be programmed to function if the vehicle was built with PTO option sales codes LBN or LBV.







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	2013 RAM Truck VSIM I/O's - Sales Code XXS										
	Connector	Circuit		Cavity	Wire	Max.					
#	Identity	#	Upfitters Signal	#	Color	Amps	Function				
							open circuit when hazard flashers are off,				
	gray						battery positive voltage (12V) when hazard				
1	24-cavity	W719	Hazard indicator on - HSD output	2	WT/VT	0.5	flashers are selected				
							open circuit when gear selector is in Park,				
	gray		Transmission out of "Park" - HSD				battery positive voltage (12V) when gear				
2	24-cavity	*W504	output	3	BR	0.5	selector is in any other position				
							open circuit when diesel regeneration is				
	gray		diesel Regeneration (DPF) on -				not energized, battery positive voltage				
3	24-cavity	W545	HSD output	4	BR/LB	0.5	(12V) when it is energized				
							open circuit when PTO circuit is not				
	gray						energized, battery positive voltage (12V)				
4	24-cavity	W743	PTO on indicator - HSD output	5	VT/TN	1.0	when PTO circuit is energized				
							open circuit when MIL is not illuminated,				
	gray						battery positive voltage (12V) when MIL is				
5	24-cavity	*W540	MIL lamp on - HSD output	6	BR/DG	0.5	illuminated				
							open circuit when gear selector is not in				
	gray		Transmission "Park" position - LSD				Park, battery negative voltage (0V) when in				
6	24-cavity	W700	output	7	YL/DB	0.5	Park				
							open circuit when gear selector is not in				
							Neutral, battery negative voltage (0V) when				
							in Neutral NOTE: only on vehicles built				
							prior to 5/9/2013 a "Neutral" (0V) signal will				
	gray		Transmission "Neutral" position -				be seen when the gear selector is moved				
7	24-cavity	W701	LSD output	8	DG/YL	0.5	between the Park and Reverse positions				
							open circuit when A/C clutch is not				
	gray		HVAC - A/C clutch engaged - LSD		/		engaged, battery negative voltage (0V)				
8	24-cavity	W652	output	9	LB/BR	0.5	when engaged				
			******				125 Kbaud CAN+, use in conjunction with				
	gray	14/500	**CAN communication - side CAN	10			W534; *refer to CAN spreadsheet for				
9	24-cavity	W532	125+	10	BR/DB		available messages				
			**CAN				125 Kbaud CAN-, use in conjunction with				
10	gray	14/524	**CAN communication - side CAN	11	DD /LD		W532; *refer to CAN spreadsheet for				
10	24-cavity	W534	125-	11	BR/LB		available messages open circuit when gear selector is not in				
			Transmission "Deverse" position								
11	gray	W702	Transmission "Reverse" position -	12		0.5	Reverse, battery negative voltage (0V) when in Reverse				
11	24-cavity	VV /02	LSD output	12	DG/DB	0.5					
	gray 24-cavity			14	LB/OR		this wire is included in the VSIM upfitter harness but is not used				
	24-cavity			14	LB/UK						
							activated via W506, relay driver, open				
							circuit when W506 is "OFF", battery				
							negative voltage (0V) when W506 is "ON",				
	gray						times out after 30 minutes, re-enable by				
12	24-cavity	W711	Cargo Lamp output - LSD output	15	WT/TN	0.5	cycling W506 switch				
							open circuit when gear selector is not in				
	gray		Transmission "Drive" position -		net -		Drive, battery negative voltage (0V) when				
13	24-cavity	W703	LSD output	16	DG/LB	0.5	in Drive				
							open circuit when all doors are closed,				
	gray						battery positive voltage (12V) when any				
14	24-cavity	W720	any Door Ajar - HSD output	17	VT/OR	0.5	door is ajar				

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	Connector	Circuit		Cavity	Wire	Max.	
#	Identity	#	Upfitters Signal	#	Color	Amps	Function
15	Black 16-cavity	*W505	howler Siren disable - HSD output	1	LG	0.25	open circuit when vehicle speed is below 25MPH, battery positive voltage (12V) when vehicle speed is 25MPH or above
16	Black 16-cavity	*W513	Horn activation - HSD output	2	BR/GY	0.5	open circuit when horn not pressed (not energized), battery positive voltage (12V) when pressed (energized)
17	Black 16-cavity	*W517	side Airbag deployed - HSD output	3	BR/LG	0.5	open circuit when side airbags have not deployed during current key cycle, battery positive voltage (12V) upon airbag deployment during current key cycle
18	Black 16-cavity	*W662	Tire Pressure Monitor active - HSD output (applicable only to RAM 2500 under 10,000 GVW)	4	VT/YL	0.5	open circuit when the Tire Pressure Monitor (TPM) indicator lamp is off, battery positive voltage (12V) when the TPM indicator lamp is active
19	Black 16-cavity	*W735	Power feed, "Off" - HSD output	5	РК	0.5	open circuit when key position is in "Accessory/Run/Start", battery positive voltage (12V) when key position is in "Off"
20	Black 16-cavity	*W710	driver's Seat Belt not latched - HSD output	6	LG/VT	0.25	open circuit when the drivers seat belt is latched, battery positive voltage (12V) when the drivers seat belt is not latched
21	Black 16-cavity	#W707	Oil Pressure warning signal - LSD digital output	7	VT/GY	0.1	oil pressure signal: Pulse Width Modulation (PWM) between open circuit and battery negative voltage (0V), 100Hz, linear with 0% PWM =0PSI, and 100% PWM=147PSI
22	Black 16-cavity	#W733	Voltage gauge - LSD digital output	8	VT	0.5	battery voltage signal: Pulse Width Modulation (PWM) between open circuit and battery negative voltage (0V), 100Hz, linear with 0% PWM =5V, and 100% PWM=18V
23	Black 16-cavity	*W518	front Airbag deployed - HSD output	9	BR/DG	0.5	open circuit when front airbags have not deployed during current key cycle, battery positive voltage (12V) upon airbag deployment during current key cycle
24	Black 16-cavity	*W515	Panic Alarm activation - HSD output	10	BR/LB	0.5	open circuit when panic alarm is not active, battery positive voltage (12V) when panic alarm is active
25	Black 16-cavity	*W726	Service Brake pedal depressed - HSD output	11	DG/OR	0.25	open circuit when the service brake pedal is not pressed, battery positive voltage (12V) when the brake pedal is depressed
26	Black 16-cavity	*W734	Power feed, "Accessory" - HSD output	12	PK/GY	0.5	open circuit when key position is in "Off/Run/Start", battery positive voltage (12V) when key position is in "Accessory"

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	Connector	Circuit		Cavity	Wire	Max.	
#	Identity	#	Upfitters Signal	#	Color	Amps	Function
27	Black 16-cavity	*W736	Power feed, "Run" - HSD output	13	PK/YL	0.5	open circuit when key position is in "Off/Accessory/Start", battery positive voltage (12V) when key position is in "Run" fuel level signal: Pulse Width Modulation (PWM) between open circuit and battery negative voltage (0V), 100Hz, linear with 0%
	Black						PWM = empty tank, and 100% PWM = full
28	16-cavity	#W538	Fuel level signal LSD digital output	14	BR/OR	0.1	tank
29	Black 16-cavity	#W744	engine RPM signal - LSD digital output	15	BR/WT	0.25	engine RPM signal: modulation between open circuit and battery negative voltage (0V), output with 0.2Hz/RPM (12 pulses per minute per 1 RPM) @ 50% duty cycle
30	Black 16-cavity	#W524	vehicle MPH speed signal, LSD digital output	16	BR/YL	0.1	vehicle speed signal: modulation between open circuit and battery negative voltage (0V), output with 10Hz/MPH (600 pulses per minute per 1 MPH) 50% duty cycle
31	Brown 16-cavity	#W521	Cluster/Auxiliary lighting dimmer, LSD digital output	1	BR/WT	0.1	using the vehicles instrument cluster dimmer control - will dim auxiliary lighting: PWM between open circuit and battery negative voltage (0V), 100Hz, linear with 0%PWM = zero intensity, and 100%PWM = full intensity
32	Brown 16-cavity	W722	Door Lock double lock function - "Unlock" all, LSD output	2	DG/TN	0.5	relay driver, mirrors vehicle unlock request with a battery negative voltage (0V) for 500ms Note: only on vehicles built prior to 5/9/2013 the first press of the door "unlock" switch unlocks the vehicle, a second press sends the unlock signal to this circuit; 5/9/2013 and later vehicles will require only one switch press
33	Brown 16-cavity	W503	Auxiliary upfitter added flashing lights front output, LSD output	3	TN/VT	0.25	relay driver for front auxiliary light(s), open circuit when W500 is "OFF", flash on/off at 80 flashes per minute (1.333Hz square wave @ 50% duty cycle) when W500 is "ON"
34	Brown 16-cavity	W506	auxiliary Cargo Lamp switch signal - digital input	4	WT		cargo lamp ON/OFF, use N.O. switch to ground to activate a relay via W711, times out after 30 minutes, re-enable by cycling switch
35	Brown 16-cavity Brown	W501	Wig Wag switch signal rear, digital input	5	BR/VT		when grounded actuates Wig Wag vehicle rear stop/turn lamps, 80 flashes per minute (1.3Hz square wave @ 50% duty cycle), also actuates circuit W502 this wire is included in the VSIM upfitter
	16-cavity			6	GY		harness but is not used

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	Connector	Circuit		Cavity	Wire	Max.	
#	Identity	#	Upfitters Signal	#	Color	Amps	Function
	Brown				/		MANDATORY CIRCUIT FOR PTO USEAGE When grounded via PTO pressure switch, provides feedback to the vehicle that the PTO has pressure; controls PTO actuation and vehicles dash PTO switch LED
36	16-cavity	W708	PTO pressure switch - digital input	8	OR/BR		illumination status
	Brown		Door Lock double lock function -				relay driver, mirrors vehicle lock request with a battery negative voltage (0V) for 500ms Note: only on vehicles built prior to 5/9/2013 the first first press of the door "lock" switch locks the vehicle, a second press sends the lock signal to this circuit; 5/9/2013 and later
37	16-cavity	W721	"Lock" all, LSD output	9	LG/TN	0.5	vehicles will require only one switch press
38	Brown 16-cavity	W502	Auxiliary upfitter added flashing lights rear output, LSD output	10	TN/BR	0.25	relay driver for rear auxiliary light(s), open circuit when W501 is "OFF", flash on/off at 80 flashes per minute (1.333Hz square wave @ 50% duty cycle) when W501 is "ON" relay driver, open circuit when park brake
39	Brown 16-cavity	W725	Park Brake applied - LSD output	11	DG/WT	0.5	not set, battery negative voltage (0V) when park brake set
40	Brown 16-cavity	W500	Wig Wag switch signal front lights, digital input <u>NOTE</u> : this function must <u>not</u> be used on Laramie, Long Horn, nor 7X91 sales code Power Wagon's - all of which which are equipped with Projector Headlamps (sales code LMC)	12	BR/OR		when grounded actuates Wig Wag vehicles front high beams, 80 flashes per minute (1.3Hz square wave @ 50% duty cycle), also actuates circuit W503
							when grounded mutes the vehicle horns
41	Brown 16-cavity	W537	Panic Alarm mute switch signal - digital input	13	BR/OR		during "Panic Alarm" active (via vehicles CAN messaging)
	Brown						when grounded mutes the vehicle horns
42	16-cavity Brown 16-cavity	W536	Horn switch mute - digital input	14 15	BR/YL OR		(via vehicles CAN messaging) this wire is included in the VSIM upfitter harness but is not used
43	Brown 16-cavity	W709	Ground - ground return	16	ВК		a source for negative battery voltage (OV) <u>for use on VSIM switched digital inputs only</u>
44	Green 16-cavity	W544	Split Shaft PTO - digital input	2	GY		when grounded signals the controller it's OK to initiate split shaft PTO
	Green 16-cavity			3	DB		this wire is included in the VSIM upfitter harness but is not used
45	Green 16-cavity			4	WT/BR		this wire is included in the VSIM upfitter harness but is not used

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	Connector Circuit Cavity Wire Max.								
#	Identity	#	Upfitters Signal	#	Color	Amps	Function		
	Green						NOTE: vehicle must have been built with PTO option sales code LBN or LBV for the cluster to have the necessary programing software for this feature. When grounded sets the PTO Remote 1 RPM (Set the desired RPM for this circuit by using the instrument cluster programing screen, select: PTO/Remote/RPM Preset 1- then set the desired RPM); speed 1 trumps F425 @ 900RPM and speeds 2&3; RPM		
46	16-cavity Green	W541	PTO idle speed 1 - digital input	5	GY/OR		up/down ramp rate is 200RPM/sec. NOTE : vehicle must have been built with PTO option sales code LBN or LBV for the cluster to have the necessary programing software for this feature. When grounded sets the PTO Remote 3 RPM (Set the desired RPM for this circuit by using the instrument cluster programing screen, select: PTO/Remote/RPM Preset 3 - then set the desired RPM), speed 3 trumps F425 @ 900RPM; is trumped by speeds 1 or		
47	Green 16-cavity Green 16-cavity	W543	PTO idle speed 3 - digital input Throttle Valve actuator signal - HSD output	6	GY/YL BR/OR	0.5	2; RPM up/down ramp rate is 200RPM/sec. open circuit when Electronic Throttle indicator is not illuminated, battery positive voltage (12V) when Electronic Throttle indicator is illuminated		
40	Green 16-cavity	VV 742	HSD Output	11	LB	0.5	this wire is included in the VSIM upfitter harness but is not used		
49	Green 16-cavity	W546	Separated rear tail lighting - digital input	12	TN/GY		when grounded rear stop/turn lamps become turn only (via CAN message)		
50	Green 16-cavity	W542	PTO idle speed 2 - digital input	13	GY/BR		NOTE: vehicle must have been built with PTO option sales code LBN or LBV for the cluster to have the necessary programing software for this feature. When grounded sets the PTO Remote 2 RPM (Set the desired RPM for this circuit by using the instrument cluster programing screen, select: PTO/Remote/RPM Preset 2 - then set the desired RPM); speed 2 trumps F425 @ 900RPM, is trumped by speed 1 but trumps speed 3; RPM up/down ramp rate is 200RPM/sec.		
51	Green	*W522	engine running Hour Meter - HSD	14	םם /\/ד	0.5	open circuit when engine RPM <450, battery		
<u>51</u> 52	16-cavity Green 16-cavity	*W699	output Park Lamp on - HSD output 1. LSD=low side driver HSD=high	14 15 side dri	BR/VT WT/LG	0.5	positive voltage (12V) when RPM >450 open circuit when park lamps are not on, battery positive voltage (12V) when park lamps are on		
				duplica	te colors		labeled with its circuit number, the non- r		
	3. **readable CAN messages are delineated on the separate CAN spreadsheet; "DBC" files available via request to the rambbg@chrysler.com.								

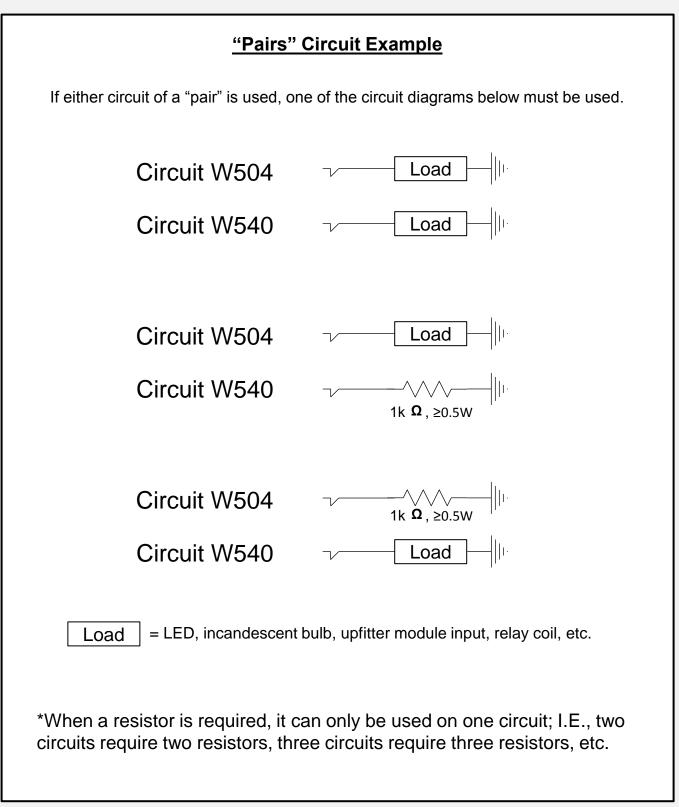
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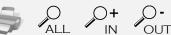
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	*CIRCUIT "PAIRS"									
	gray		Transmission out of "park" - HSD			**If only one of this circuit pair is being used as an				
2	24-cavity	*W504	output	3	BR	output, the other unused circuit must be grounded				
	gray					thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
5	24-cavity	*W540	MIL lamp on - HSD output	6	BR/DG	Example circuit diagram.				
	Black					**If only one of this circuit pair is being used as an				
16	16-cavity	*W505	howler Siren disable - HSD output	1	LG	output, the other unused circuit must be grounded				
	Black		front Airbag deployed - HSD			thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
24	16-cavity	*W518	output	9	BR/DG	Example circuit diagram.				
			·							
	Black					**If only one of this circuit pair is being used as an				
17	16-cavity	*W513	Horn activation - HSD output	2	BR/GY	output, the other unused circuit must be grounded				
	Black		Panic Alarm activation - HSD			thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
25	16-cavity	*W515	output	10	BR/LB	Example circuit diagram.				
	Black					**If only one of this circuit pair is being used as an				
18	16-cavity	*W517	side Airbag deployed - HSD output	3	BR/LG	output, the other unused circuit must be grounded				
	Black		Service Brake pedal depressed -			thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
26	16-cavity	*W726	HSD output	11	DG/OR	Example circuit diagram.				
			Tire Pressure Monitor active - HSD							
	Black		output (applicable only to RAM			**If only one of this circuit pair is being used as an				
19	16-cavity	*W662	2500 under 10,000 GVW)	4	VT/YL	output, the other unused circuit must be grounded				
	Black		Power feed, "Accessory" - HSD			thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
27	16-cavity	*W734	output	12	PK/GY	Example circuit diagram.				
	Black	******		-		**If only one of this circuit pair is being used as an				
20	16-cavity	*W735	Power feed, "Off" - HSD output	5	PK	output, the other unused circuit must be grounded				
20	Black	*W736	Device food "Due" USD subsub	10	PK/YL	thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
28	16-cavity	· W/30	Power feed, "Run" - HSD output	13	PK/TL	Example circuit diagram.				
	Black		driver's Seat Belt not latched -			**If only one of this circuit pair is being used as an				
21	16-cavity	*W710	HSD output	6	LG/VT	output, the other unused circuit must be grounded				
21	Green	10/10	engine running Hour Meter - HSD	0	LO/VI	thru a 1kΩ. ≥0.5W resistor: see "Pairs" Circuit				
53	16-cavity	*W522	output	14	BR/VT	Example circuit diagram.				
55	10-04/11	1022	output	14	517 1					
	Green		Throttle Valve actuator signal -			**If only one of this circuit pair is being used as an				
50	16-cavity	*W742	HSD output	7	BR/OR	output, the other unused circuit must be grounded				
	Green		nee curput		5.9 5.1	thru a $1k\Omega$, $\geq 0.5W$ resistor; see "Pairs" Circuit				
54	16-cavity	*W699	Park Lamp on - HSD output	15	WT/LG	Example circuit diagram.				
5	20 cavicy		. and camp on Thob output	10	111/10	Example of our diagram				





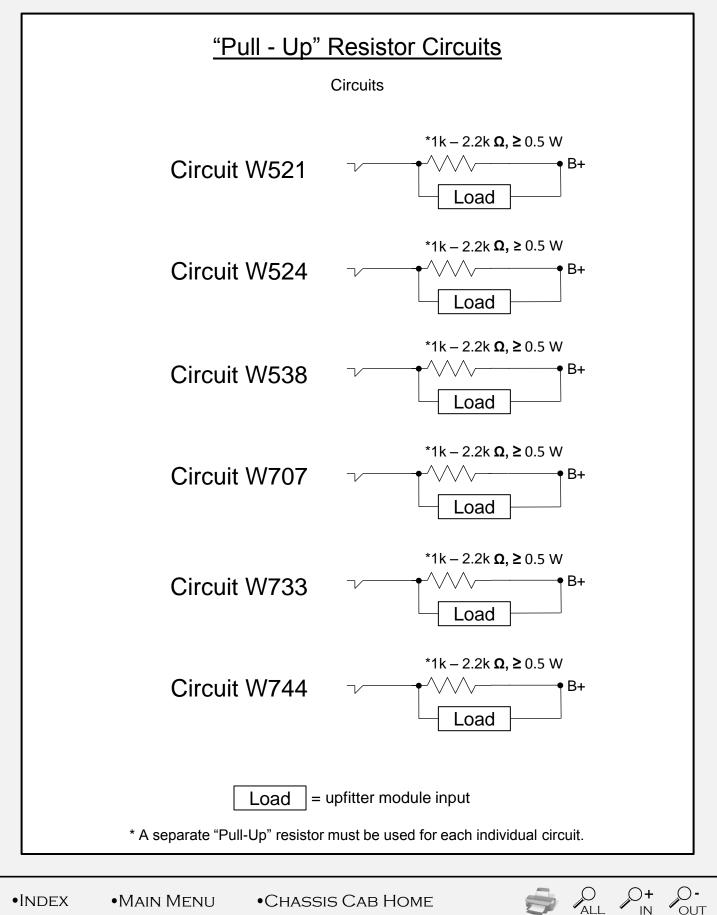
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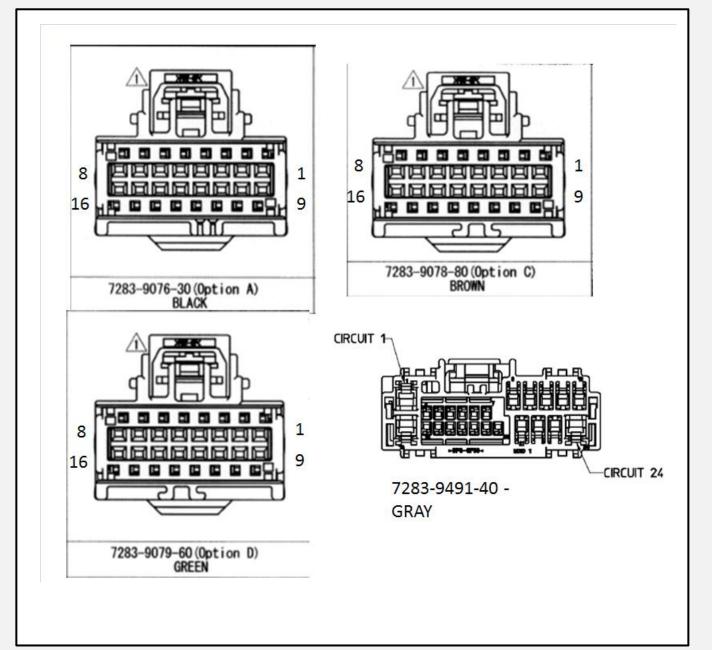
	#"PULL-UP" RESISTORS REQUIRED - EXTERNAL							
32	Brown 16-cavity	#W521	Cluster/Auxiliary lighting dimmer, LSD digital output	1	BR/WT	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
31	Black 16-cavity	#W524	vehicle MPH speed signal, LSD digital output	16	BR/YL	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
29	Black 16-cavity	#W538	Fuel level signal LSD digital output	14	BR/OR	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
22	Black 16-cavity	#W707	Oil Pressure warning signal - LSD digital output	7	VT/GY	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
23	Black 16-cavity	#W733	Voltage gauge - LSD digital output	8	VT	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
30	Black 16-cavity	#W744	engine RPM signal - LSD digital output	15	BR/WT	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. For Chassis cabs, +12V can be obtained from splicing into circuit F606 at location "D" as shown in the schematic within the UPFITTER WIRING INTERFACE INSTRUCTIONS chapter. For HD Pick-Ups, +12V can be obtained at the wiring to the cigarette lighter or another +12V source.		
						*Each circuit requiring a "Pull-Up" resistor must use a resistor dedicated only to one circuit.		

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			2013 VSIM CAN BUS N		-1 -1 -1
#	Name	Unit	Comment	FlexKomComment	FlexKomSigName
1	WakeupRsn_VSIM		Wakeup reason VSIM	Mode 2 of NM_Ud_Srv	Wakeup_VSIM
2	WakeupCnt		Counter for module wakeup states during network sleep		Wakeup_VSIM
3	VIN_MSG		VIN Message Information	Vin Information	VIN_INFO
4	VEH_SPEED	km/h	Vehicle speed	Vehicle speed	VEH_SPEED
5	RT_DIST	cm	Distance Traveled by Right Wheel	Distance traveled by wheels	ESP_DIST
6	PRND_STAT		PRND Status	PRND Status	PRND_STAT
7	PANEL_INTS	%	Panel-/display intensity	Interior lighting status (VSIM bus)	Int_LT_Stat
8	OIL_PRESS	kPaG	Oil pressure	Oil pressure	OIL_PRESS
9	ODO	km	Odometer	Odometer	ODO
10	Nw_Id		Network identification no.	Network identification no.	Nw_Id
11	NM_Ud_Srv		Network management userdata service no.	Network management state	NM
12	NM_Ud_Launch		Network management userdata launch type	Network management state	NM
13	NM_Successor		Network management logical successor	Network management state	NM
14	NM_Mode		Network management mode	Network management state	NM
15	MIL_LMP_STAT		Malfunction indicator lamp status	Malfunction indicator lamp status	MIL_LMP_STAT
16	LT_DIST	cm	Distance Traveled by Left Wheel	Distance traveled by wheels	ESP_DIST
17	HL_SW_MODE		Headlamp switch mode	Headlamp switch mode	HL_SW_MODE
18	EngHours	Hours	Engine hours	Engine hours	EngHours
19	ENG_RPM	rpm	Engine revolutions per minute	Engine revolutions per minute	ENG_RPM
20	DRV_SEATBELT		Drivers seat belt status	Drivers seat belt status	DRV_SEATBELT
21	CmdIgnStat		Commanded ignition switch status	Commanded ignition switch status	CmdIgnStat
22	BRK_SW		Brake switch status	Brake switch status	BRK_SW
23	BATT_VOLT	Volts	System voltage	System voltage	BATT_VOLT
24	AvgFuelLvl	liters	Average filtered fuel level in liters	Average filtered fuel level in liters	AvgFuelLvl
25	X_IMPACT		Any impact event (VSIM bus)	Impact events (VSIM bus)	Impact
26	AudMuteRq		Audio mute request from VSIM	Audio mute request from VSIM	AudMuteRq
27	DAY_LGT_MD		Day light brightness mode	Night=[0], Day=[1]	Interior lighting status (VSIM bus)
28	DRV_AJAR		Driver door ajar	Door ajar	DR_AJAR
29	FtWigWagRq		Front wig wag request	Exterior lighting wig wag packet	WigWagPkt
30	HORN_RQ		Horn On Request = [1]	Horn On Request = [1]	HORN_RQ
31	L_R_AJAR		Left rear door ajar	Door ajar	DR_AJAR
32	Impact_F		Less severe front event	Impact events (VSIM bus)	Impact
33	NM_Outfitter		Network management	Network management	NM_Outfitter
34	NM_Sleep_Ack		Network management sleep acknowledge	Network management state	NM
35	NM Sleep Ind		Network management sleep indication	Network management state	NM
36	PNC ALM MUTE		Panic alarm mute	Panic alarm mute	PNC ALM MUTE
37	PNC MD ACT		Panic mode active	Panic mode active	PNC MD ACT
38	PARK LMP ON		Parklamps are on	off=[0], on=[1]	Parklamps are on
39	PSG AJAR		Passenger door ajar	Door ajar	DR AJAR
	RrWigWagRq		Rear wig wag request	Exterior lighting wig wag packet	WigWagPkt
	R R AJAR		Right rear door ajar	Door ajar	DR AJAR
	Awake Diag Actv		Stay awake for diagnostics active	Mode 15 of NM Ud Srv	Awake VSIM
	Awake NwSt		Stay awake for network startup	Mode 15 of NM_Ud_Srv	Awake VSIM
	SupHrnRq		Suppress horn request	Suppress horn request	SupHrnRg
	LT TURN ON		Turn indication left is on	Turn indication status	TURN STAT
46	RT TURN ON		Turn indication right is on	Turn indication status	TURN STAT
	VIN DATA		VIN Digits (8 bit ascii encoded)	Vin Information	VIN INFO