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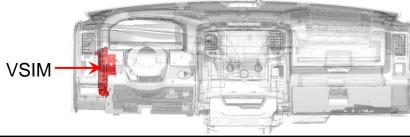
### VSIM (VEHICLE SYSTEM INTERFACE MODULE) USAGE INSTRUCTIONS

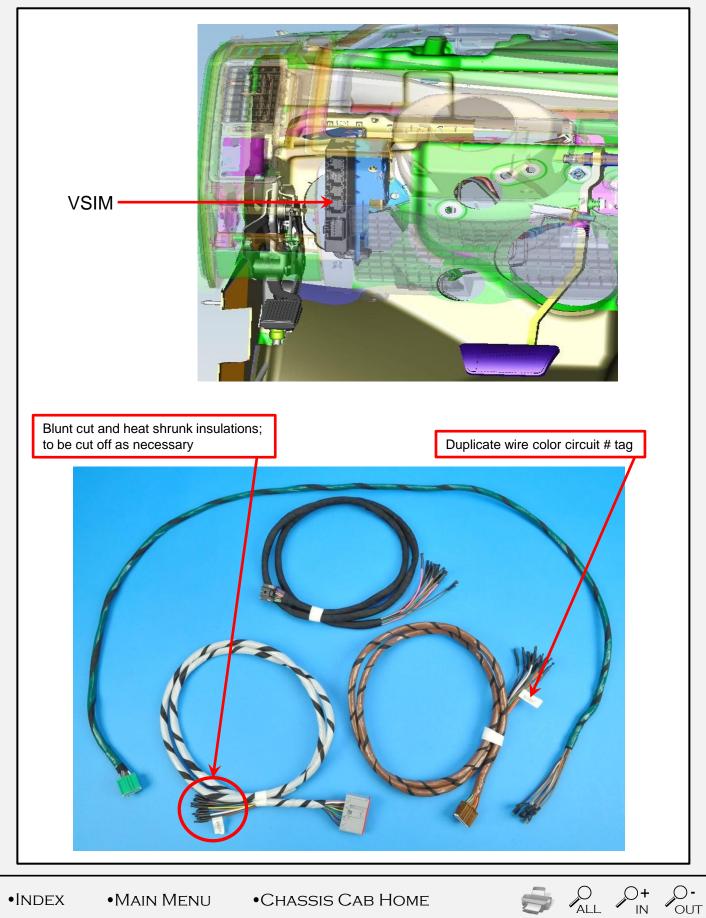
#### Overview:

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.

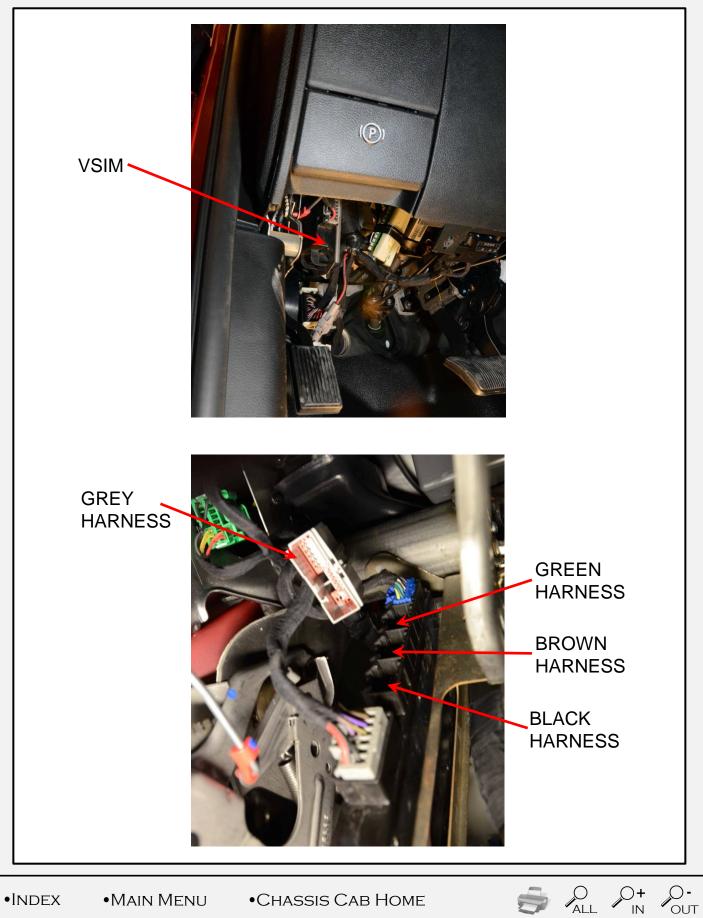
#### Specifics:

- 1. Ghost drawings showing the module location within the dash panel.
- 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.





## 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS



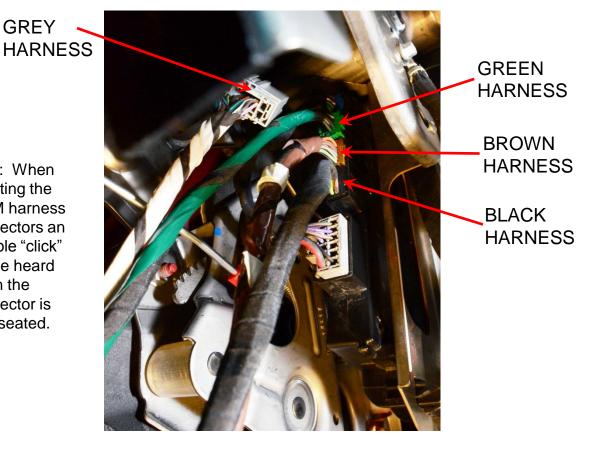
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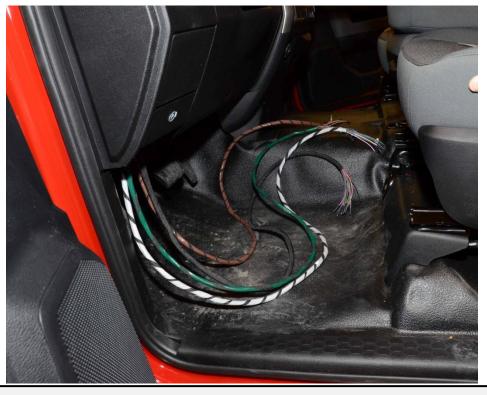
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Note: When inserting the VSIM harness connectors an audible "click" will be heard when the connector is fully seated.

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## 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS

	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				
			T				open circuit when gear selector is in Park,				
_	gray	*W504	Transmission out of "Park" - HSD	2			battery positive voltage (12V) when gear				
2	24-cavity	*₩504	output	3	BR	0.5	selector is in any other position				
	grou		diesel Regeneration (DPF) on -				open circuit when diesel regeneration is not energized, battery positive voltage				
3	gray 24-cavity	W545	HSD output	4	BR/LB	0.5	(12V) when it is energized				
3	24-Cavily	VV343	hab output	4	DIVLD	0.5	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				
-	24 cuvicy	11745	The off malaater hop output		v1,11	1.0	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		**CAN communication - side CAN				W534; *refer to CAN spreadsheet for				
9	24-cavity	W532	125+	10	BR/DB		available messages				
							125 Kbaud CAN-, use in conjunction with				
	gray		**CAN communication - side CAN				W532; *refer to CAN spreadsheet for				
10	24-cavity	W534	125-	11	BR/LB		available messages				
							open circuit when gear selector is not in				
	gray		Transmission "Reverse" position -				Reverse, battery negative voltage (0V)				
11	24-cavity	W702	LSD output	12	DG/DB	0.5	when in Reverse				
	gray				10/00		this wire is included in the VSIM upfitter				
	24-cavity			14	LB/OR		harness but is not used				
							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 -				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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## 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS

	Connector	Circuit		Couitu	Mire	Max	
			Unfittors Signal	Cavity	Wire	Max.	Function
#	Identity	#	Upfitters Signal	#	Color	Amps	Function
							open circuit when vehicle speed is below
	Black						25MPH, battery positive voltage (12V) when
15	16-cavity	*W505	howler Siren disable - HSD output	1	LG	0.25	vehicle speed is 25MPH or above
							open circuit when horn not pressed (not
	Black						energized), battery positive voltage (12V)
16	16-cavity	*W513	Horn activation - HSD output	2	BR/GY	0.5	when pressed (energized)
							open circuit when side airbags have not
							deployed during current key cycle, battery
	Black						positive voltage (12V) upon airbag
17	16-cavity	*W517	side Airbag deployed - HSD output	3	BR/LG	0.5	deployment during current key cycle
							open circuit when the Tire Pressure Monitor
			Tire Pressure Monitor active - HSD				(TPM) indicator lamp is off, battery positive
	Black		output (applicable only to RAM				voltage (12V) when the TPM indicator lamp
18	16-cavity	*W662	2500 under 10,000 GVW)	4	VT/YL	0.5	is active
							open circuit when key position is in
	Black						"Accessory/Run/Start", battery positive
19	16-cavity	*W735	Power feed, "Off" - HSD output	5	РК	0.5	voltage (12V) when key position is in "Off"
			· ·				
							open circuit when the drivers seat belt is
	Black		driver's Seat Belt not latched -				latched, battery positive voltage (12V)
20	16-cavity	*W710	HSD output	6	LG/VT	0.25	when the drivers seat belt is not latched
			· ·				
							oil pressure signal: Pulse Width Modulation
							(PWM) between open circuit and battery
	Black		Oil Pressure warning signal - LSD				negative voltage (0V), 100Hz, linear with 0%
21	16-cavity	#W707	digital output	7	VT/GY	0.1	PWM =0PSI, and 100% PWM=147PSI
			<u> </u>				battery voltage signal: Pulse Width
							Modulation (PWM) between open circuit
							and battery negative voltage (0V), 100Hz,
	Black						linear with 0% PWM =5V, and 100%
22	16-cavity	#W733	Voltage gauge - LSD digital output	8	VT	0.5	PWM=18V
	at satisfy						open circuit when front airbags have not
							deployed during current key cycle, battery
	Black		front Airbag deployed - HSD				positive voltage (12V) upon airbag
23	16-cavity	*W518	output	9	BR/DG	0.5	deployment during current key cycle
	Lo saviey				2.900	0.0	open circuit when panic alarm is not active,
	Black		Panic Alarm activation - HSD				battery positive voltage (12V) when panic
24	16-cavity	*W515	output	10	BR/LB	0.5	alarm is active
							open circuit when the service brake pedal is
	Black		Service Brake pedal depressed -				not pressed, battery positive voltage (12V)
25	16-cavity	*W726	HSD output	11	DG/OR	0.25	when the brake pedal is depressed
	20 carry				23,50	5120	
							open circuit when key position is in
	Black		Power feed, "Accessory" - HSD				"Off/Run/Start", battery positive voltage
26	16-cavity	*W734	output	12	PK/GY	0.5	(12V) when key position is in "Accessory"
20	To-cavity	10754	output	12	FIYUT	0.5	(124) when key position is in Accessory

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# 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS

	Connector Circuit Cavity Wire Max.								
#	Identity	trcuit #	Upfitters Signal	Cavity #	Color	Amps	Function		
π	identity	π	opricers signar	π	COIOI	Amps	runction		
							open circuit when key position is in		
	Black						"Off/Accessory/Start", battery positive		
27	16-cavity	*W736	Power feed, "Run" - HSD output	13	PK/YL	0.5	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		
							engine RPM signal: modulation between		
	Black		ongino RDM cignal USD digital				open circuit and battery negative voltage (0V), output with 0.2Hz/RPM (12 pulses per		
29	васк 16-cavity	#W744	engine RPM signal - LSD digital output	15	BR/WT	0.25	minute per 1 RPM) @ 50% duty cycle		
	10 cuvity		υτρατ		Dig VVI	5.25	and the per and my the book duty cycle		
							vehicle speed signal: modulation between		
							open circuit and battery negative voltage		
	Black		vehicle MPH speed signal, LSD				(0V), output with 10Hz/MPH (600 pulses per		
30	16-cavity	#W524	digital output	16	BR/YL	0.1	minute per 1 MPH) 50% duty cycle		
							using the vehicles instrument cluster		
							dimmer control - will dim auxiliary lighting: PWM between open circuit and battery		
							negative voltage (0V), 100Hz, linear with		
	Brown		Cluster/Auxiliary lighting dimmer,				0%PWM = zero intensity, and 100%PWM =		
31	16-cavity	#W521	LSD digital output	1	BR/WT	0.1	full intensity		
							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		
	Brown		Door Lock double lock function -				later vehicles will require only one switch		
32	16-cavity	W722	"Unlock" all, LSD output	2	DG/TN	0.5	press		
							relay driver for front auxiliary light(s), open		
	D		Annillana an Galeria and Alberta				circuit when W500 is "OFF", flash on/off at		
22	Brown	14/500	Auxiliary upfitter added flashing	2	TN/VT	0.25	80 flashes per minute (1.333Hz square wave		
33	16-cavity	W503	lights front output, LSD output	3	TN/VT	0.25	@ 50% duty cycle) when W500 is "ON" cargo lamp ON/OFF, use N.O. switch to		
							ground to activate a relay via W711, times		
	Brown		auxiliary Cargo Lamp switch signal -				out after 30 minutes, re-enable by cycling		
34	16-cavity	W506	digital input	4	WT		switch		
							when grounded actuates Wig Wag vehicle		
							rear stop/turn lamps, 80 flashes per minute		
	Brown		Wig Wag switch signal rear, digital				(1.3Hz square wave @ 50% duty cycle), also		
35	16-cavity	W501	input	5	BR/VT		actuates circuit W502		
	Brown			6	GY		this wire is included in the VSIM upfitter		
	16-cavity			U	זט		harness but is not used		

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## 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS

	Connector	Circuit		Cavity	Wire	Max.	
#	Identity	#	Upfitters Signal	#	Color	Amps	Function
							MANDATORY CIRCUIT FOR PTO USEAGE
							When grounded via PTO pressure switch,
							provides feedback to the vehicle that the
							PTO has pressure; controls PTO actuation
	Brown						and vehicles dash PTO switch LED
36	16-cavity	W708	PTO pressure switch - digital input	8	OR/BR		illumination status
	,						
							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
	Brown		Door Lock double lock function -				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
							relay driver for rear auxiliary light(s), open
							circuit when W501 is "OFF", flash on/off at
	Brown		Auxiliary upfitter added flashing				80 flashes per minute(1.333Hz square wave
38	16-cavity	W502	lights rear output, LSD output	10	TN/BR	0.25	@ 50% duty cycle) when W501 is "ON"
	_						relay driver, open circuit when park brake
	Brown						not set, battery negative voltage (0V) when
39	16-cavity	W725	Park Brake applied - LSD output	11	DG/WT	0.5	park brake set
			Wig Wag switch signal front lights,				
			digital input NOTE: this				
			function must <u>not</u> be used on				
			Laramie, Long Horn, nor 7X91 sales				when grounded actuates Wig Wag vehicles
	Drouwn		code Power Wagon's - all of which				front high beams, 80 flashes per minute
40	Brown	14/500	which are equipped with Projector	10			(1.3Hz square wave @ 50% duty cycle), also
40	16-cavity	W500	Headlamps (sales code LMC)	12	BR/OR		actuates circuit W503 when grounded mutes the vehicle horns
	Brown		Panic Alarm mute switch signal -				during "Panic Alarm" active (via vehicles
41	16-cavity	W537	digital input	13	BR/OR		CAN messaging)
	Brown		aiBrait in par		Shy On		when grounded mutes the vehicle horns
42	16-cavity	W536	Horn switch mute - digital input	14	BR/YL		(via vehicles CAN messaging)
	Brown		2.8.00 Par				this wire is included in the VSIM upfitter
	16-cavity			15	OR		harness but is not used
	Brown						a source for negative battery voltage (OV)
43	16-cavity	W709	Ground - ground return	16	вк		for use on VSIM switched digital inputs only
			0.000000000000000000000000000000			1	
	Green						when grounded signals the controller it's
44	16-cavity	W544	Split Shaft PTO - digital input	2	GY		OK to initiate split shaft PTO
	Green			_			this wire is included in the VSIM upfitter
	16-cavity			3	DB		harness but is not used
	Green						this wire is included in the VSIM upfitter
45	16-cavity			4	WT/BR		harness but is not used

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### 2013 RAM 2500/3500 VSIM LISAGE INSTRUCTIONS

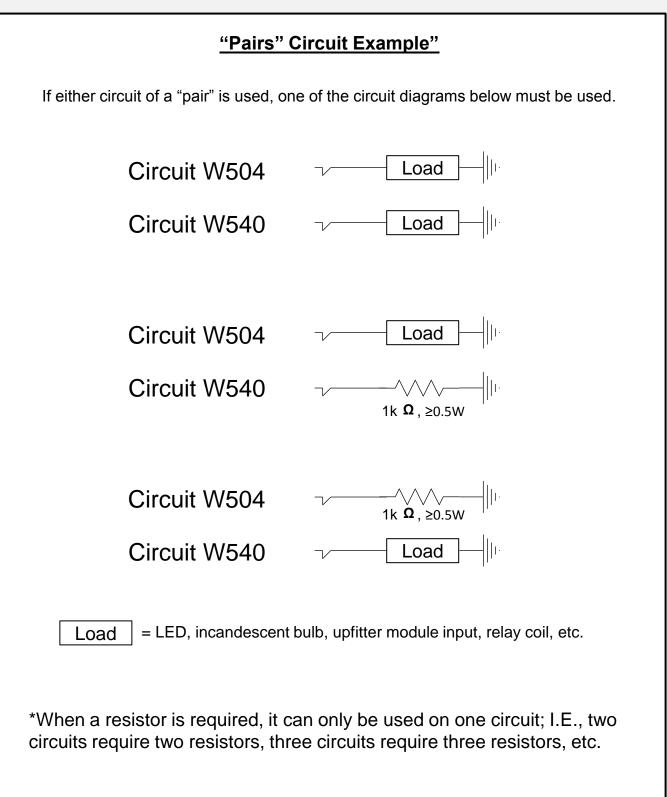
,,	2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS								
	nnector dentity	Circuit #	Upfitters Signal	Cavity #	Wire Color	Max. Amps	Function		
	Green 5-cavity	W541	PTO idle speed 1 - digital input	5	GY/OR		NOTE: vehicle must have been built with PTO option sales code LBN or LBV for the cluster to have the 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 up/down ramp rate is 200RPM/sec.		
	Green j-cavity	W543	PTO idle speed 3 - digital input	6	GY/YL		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 2; RPM up/down ramp rate is 200RPM/sec.		
c	Green 5-cavity	*W742	Throttle Valve actuator signal - HSD output	7	BR/OR	0.5	open circuit when Electronic Throttle indicator is not illuminated, battery positive voltage (12V) when Electronic Throttle indicator is illuminated		
	Green 5-cavity			11	LB		this wire is included in the VSIM upfitter harness but is not used		
	Green 5-cavity	W546	Separated rear tail lighting - digital input	12	TN/GY		when grounded rear stop/turn lamps become turn only (via CAN message)		
	Green i-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.		
	Green		engine running Hour Meter - HSD				open circuit when engine RPM <450, battery		
C	5-cavity Green 5-cavity	*W522 *W699	Park Lamp on - HSD output	14 15	BR/VT	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		
			<ol> <li>LSD=low side driver HSD=high</li> <li>within a bundle one wire of two</li> </ol>			will be	labeled with its circuit number, the non-		
	Iabeled wire will be the other circuit number with that color           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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	*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.				
	- 1		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 $1k\Omega$ , $\ge 0.5W$ 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	РК	output, the other unused circuit must be grounded				
20	Black	VV755	Power reed, Off - HSD output	5	PK	thru a $1k\Omega$ , $\geq 0.5W$ resistor; see "Pairs" Circuit				
28	16-cavity	*W736	Power feed, "Run" - HSD output	13	PK/YL	Example circuit diagram.				
20	TO-Cavity	VV/30	Power reed, Run - hob output	15	FINITE	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				
	Green		engine running Hour Meter - HSD	-		thru a $1k\Omega$ , $\ge 0.5W$ resistor; see "Pairs" Circuit				
53	16-cavity	*W522	output	14	BR/VT	Example circuit diagram.				
			r ===			I				
	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		·			thru a 1kΩ, ≥0.5W resistor; see "Pairs" Circuit				
54	16-cavity	*W699	Park Lamp on - HSD output	15	WT/LG	Example circuit diagram.				

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## 2013 RAM 2500/3500 VSIM USAGE INSTRUCTIONS

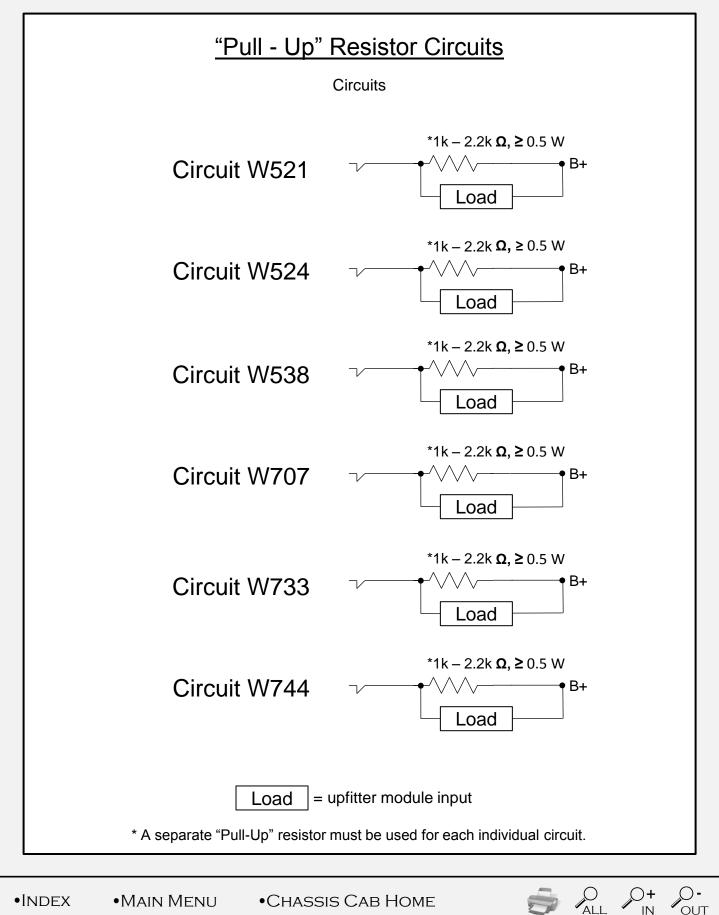
	#"PULL-UP" RESISTORS REQUIRED - EXTERNAL								
32	Brown 16-cavity	#W521	Cluster/Auxiliary lighting dimmer, LSD digital output	1	BR/WT	*This circuit requires a dedicated 1K-2.2KΩ, ≥0.5W pull-up resistor connected from this circuits wire to a +12V source. See the "Pull-Up" Resistor Circuits diagram. 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, 20.5W 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, 20.5W 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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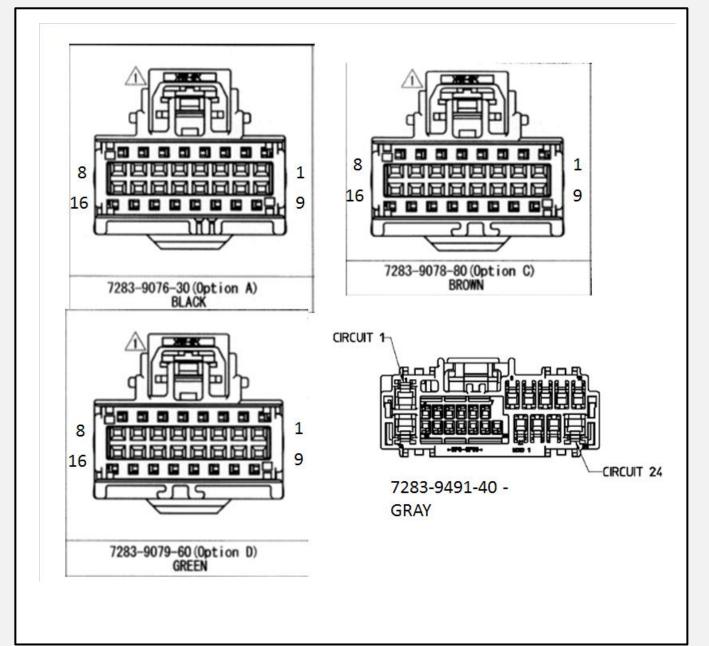
•Main Menu

•CHASSIS CAB HOME

ALL O+ O-



ALL PH POT



ALL O+ O-

ш.	Newse	Unit	Comment	FlexKomComment	Flauk and Ciable man
#	Name	Unit			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		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
	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
42	Awake Diag Actv		Stay awake for diagnostics active	Mode 15 of NM Ud Srv	Awake VSIM
43	Awake_Diag_Activ		Stay awake for network startup	Mode 15 of NM_Ud_Srv	Awake VSIM
	SupHrnRg		Suppress horn request	Suppress horn request	SupHrnRq
	LT TURN ON		Turn indication left is on	Turn indication status	TURN_STAT
45 46	RT TURN ON		Turn indication right is on	Turn indication status	TURN STAT
				Frum multation status	LIONN STAT