

NAV-TV

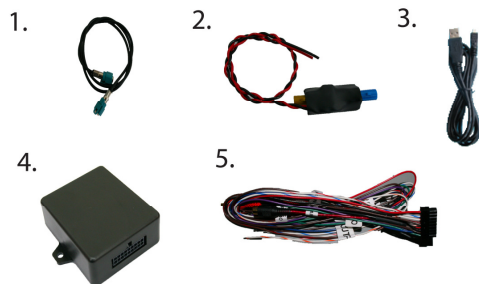
INTERFACING THE FUTURE


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LaCrosse '10 VIM

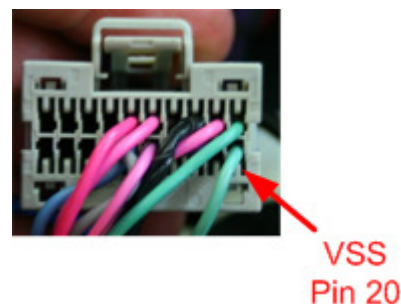
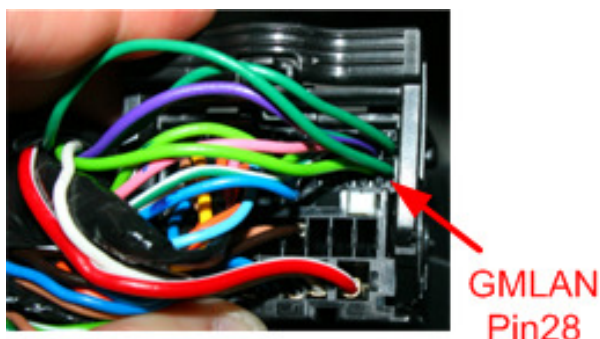
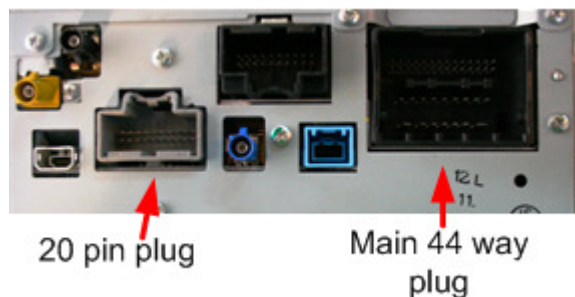
Video in motion and forced backup camera operation for 2010 Buick LaCrosse


What's in the box	
<ol style="list-style-type: none">1) GPS antenna cable2) GPS antenna relay board3) USB cable4) Video in Motion Module5) Wire harness	

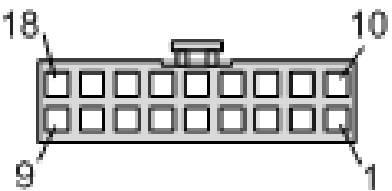
Operation	
<p>Video In Motion (VIM): While VIM is on, the user will be able to watch DVD's, AUX video and will allow navigation entry input. Navigation tracking and route guidance will be disabled while VIM is enabled. During this time the "GPS" icon on the map screen will have a slash through it. To enable/disable VIM; press the mute button on the steering wheel 2 times in 1 second.</p> <ul style="list-style-type: none">• VIM is reset whenever the key is cycled. <p>Forced Backup Camera: Forced camera will allow the user to view the backup camera at any time. To enable/disable "Forced Backup Camera", press and hold the "Voice" command button on the steering wheel for 3 seconds.</p> <ul style="list-style-type: none">• Parking assist lines will be displayed and move with the steering wheel.	

Installation

1. Using a plastic pry tool, lift the shifter console up and back, starting from the rear of the console. It does not need to be removed, just unhooked from the radio/HVAC trim panel.
2. Insert the plastic pry tool under the radio/HVAC trim panel and gently pry up. Once pulled up, unplug the harness from the trim panel and set to the side.
3. Remove the (4) 7mm screws around the radio control head/DVD player. Remove the radio to gain access to the wiring harnesses.
4. Disconnect the main 44-way square plug from behind the radio. This is where the connections for continuous power, ground, and GMLAN will be made.
 - a. Pin 44 (Red) – Continuous Power
 - b. Pin 38 (Black) – Ground
 - c. Pin 28 (Dark Green) – GMLAN
5. Splice into the corresponding wires for power and ground connections.
 - a. For GMLAN connection, find pin 28 (dark green). Cut this wire in half.
 - b. On the VIM module, the purple wire (pin 18) goes to the car side. The Green wire (pin 9) goes to the radio side. Be sure to solder and insulate all connections.
6. Next, find the 20 pin white connector behind the radio. Pin 20 (light green) is where the VSS signal is located.
7. Cut this wire in half and follow the same procedure as in step 5: Pin 17 (blue) goes to the car side of the wire. Pin 8 (brown) goes to the radio side of the wire.
8. Locate the GPS antenna; this will have a blue FAKRA connector. Plug the factory antenna into the blue connector of the relay board. Using the supplied FAKRA cable, connect one end to the tan connector of the relay board and the other end into the GPS antenna port on the radio.
9. On the relay board is a black and a red wire. The black wire goes to chassis ground. The red wire goes to Pin 12 (white/blue) of the VIM module.
10. Put the vehicle back together and test.



Forced Rear Camera	Factory wire harness
<p>If the vehicle has a factory rear camera, this module can do forced camera with minimal modifications.</p> <ol style="list-style-type: none"> 1. Open the trunk and remove the access cover on the left quarter to gain access to the rear camera signal. 2. There is a gray cable leading up to the trunk lid. Carefully cut the tape open to gain access to the wiring inside. 3. Locate the Lt. green wire (be sure to verify that it has +12v only in reverse,) cut the wire in half. 4. Run a wire from the VIM module (pin 11, white/red) to the cut wire. Connect it to the side going towards the trunk lid. Insulate the unused end of the wire. 5. Test the system to make sure camera still comes on in reverse and when image is forced. 	 <ul style="list-style-type: none"> • Solder and insulate all connections. • The Lt. green wire can be found traveling along the driver's side of the vehicle. Be aware that if the white/red wire (pin 11) is connected in the front and not at the harness in the trunk lid, the reverse lights will be illuminated while forced camera is active and could possibly damage the module.

Pin Out						Connector
1	Red	+12v Power	10	Black	Ground	
2	empty		11	White Red	Backup cam power	
3	empty		12	White Blue	GPS Relay power	
4	empty		13	White/Orange	Not used (Output B)	
5	empty		14	empty		
6	empty		15	empty		
7	empty		16	empty		
8	Brown	VSS Radio	17	Blue	VSS Car	
9	Green	GMLAN Radio	18	Purple	GMLAN Car	