

Introduction

The Driver Information Center (DIC) a.k.a. Overhead Console is available on both the 00-05 Impala as well as the 00-05 Monte Carlo. The DICs from the Impala and Monte Carlo are interchangeable. There are two versions of the DIC available, one for vehicles equipped with the power sunroof option (RPO CF5) and one for vehicles without the sunroof option. The DIC features include an integrated compass, external temperature display, Homelink transmitter, Average/Instantaneous Fuel Economy, as well as other Trip Computer information.

Models/Parts

Below is a table of the similarities/differences between the two consoles:

DIC Feature/Option Table

Feature/Option	w/ Power Sunroof Option RPO U68 - DIC RPO UG1- Homelink RPO CF5 - Power Sunroof Click Image to Enlarge	w/o Power Sunroof Option RPO U68 - DIC RPO UG1- Homelink Click Image to Enlarge	
Bracket	Mounting Bracket Click Image to Enlarge Bracket: GM Part # 10343287 (\$33.19 List)	Mounting Bracket Click Image to Enlarge Bracket: GM Part # 10447494 (\$30.56 List)	
Homelink	n	n	
Ambient Temperature	n	n	

Ambient Temperature Sensor	Click Image to Enlarge Sensor: GM Part # 10248414 (\$12.40 List)		
Compass	n External Module (attached to bracket) NOTE: Available as part of DIC only	n Internal Module	
Trip Computer	n	n	
Integrated Sunroof Switch	n	r	

The exploded parts view of the each of the overhead console types shows the individual pieces. NOTE: Not all of the parts shown are serviceable.

	Part Designator	Description			
	Overhead Console Storage				
	1	Overhead Console Storage (complete unit)			
Driver Info Center Disassembled	2	Overhead Console Storage Bracket			
View	3	Overhead Console Storage Housing			
	4	Overhead Console Storage Mat			
Make: CHEVROLET, Year: 04, Model: Impala/Monte Carlo	5	Overhead Console Storage Housing Screw			
B-BZ némeeriné		DIC (w/o Sunroof)			
	6	Overhead DIC (non-Sunroof) Bracket			
	7	Overhead DIC (non-Sunroof) Module Cover			
-13	8	Overhead DIC (non-Sunroof) Module			
(EXCUGI,CFS)	9	Overhead DIC (non-Sunroof) Module Face			
	10	Overhead DIC (non-Sunroof) Fastener			
19	11	Overhead DIC (non-Sunroof) Housing			
21-	12	Overhead DIC (non-Sunroof) Housing Screw			
17 12 (UG1, EXC CFS)	13	Overhead DIC (non-Sunroof) (complete unit w/o housing)			
10		DIC (w/ Sunroof)			
	14	Overhead DIC (w/ Sunroof) Housing			
15 (CFS)	15	Overhead DIC (w/ Sunroof) Housing Screw			
	16	Overhead DIC (w/ Sunroof) Module Face			
Click Image to Enlarge	17	Overhead DIC (w/ Sunroof) Module			
	18	Overhead DIC (w/ Sunroof) Module Cover			
	19	Overhead DIC (w/ Sunroof) Bracket (w/ compass module)			
	20	Overhead DIC (w/ Sunroof) Sunroof Switch			
	21	Overhead DIC (Sunroof) (complete unit w/o housing)			

Factory Wiring

The DIC is not pre-wired in the roof harness if the DIC option was not ordered from the factory. The ambient temperature sensor is pre-wired behind the grill, in front of the radiator on all vehicles. The circuits needed for the DIC are available in harness that mates with the roof harness in the right C-Pillar (See diagrams below). These circuits present at the roof harness connector are the ambient temperature sensor, the Class-2 Data Bus, the sunroof control signals, and power/ground.

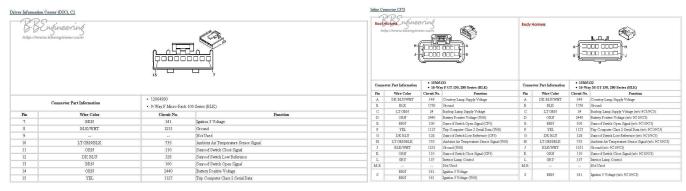
NOTE: It appears that the 9C1/9C3 Police Package does not bring the DIC wires up to the roof harness connector because the DIC is not an option on the Police Package Vehicles.

Below are the connector, schematic, and harness routing diagrams:

DIC Connector Pin Assignments (Located on DIC module in headliner)

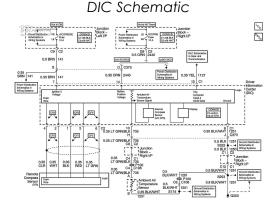
Roof/Body Harness Connector Pin Assignments

(Located in right side C-Pillar/Package Shelf)



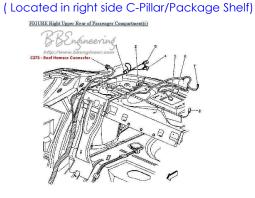
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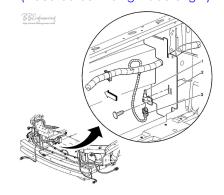
Roof/Body Harness Routing



Ambient Temperature Sensor

Harness Routing

(Located behind right side of grill)



Click Image to Enlarge

Click Image to Enlarge

Wiring The DIC

In order to actually get the DIC to work, it is necessary to get the appropriate signals, power, and ground connected to the module. There are a few ways to do this, but I will touch on only two of them here: Splicing into the factory wires and Using a Retrofit Harness

NOTE: It appears that the 9C1/9C3 Police Package does not bring the DIC wires up to the roof harness connector therefore splicing is the only option on the Police Package vehicles. Many of the circuits listed below are not available on the Police Package vehicles and new wiring must be added.

Splicing Connections

The benefit of splicing the connections is it is extremely inexpensive. All that is needed is a length of wire (8 conductors, 18-20 AWG), 8 Barrel Crimp Connectors (18-20 AWG), 8 T-Taps (18-20 AWG). It is possible to make all of the connections at the roof/body harness junctions, but since we are going to tap into the wires, some of them are available closer to the DIC location.

DIC Pin	DIC Color	Circuit #	Function	Alternate Location	
7	Brown	143	Ignition 3	Rearview Mirror Harness - Headliner - (Brown)	
8	Blk/White	1251	Ground	Rearview Mirror Harness - Headliner (Black)	
9					
10	Lt Grn/Blk	735	Ambient Temp Sensor	Roof/Body Connector (Lt Grn/Blk)	
11	Orange	110	Sunroof Close	Sunroof Harness - Headliner (Orange)	
12	Dk Blue	128	Sunroof Low Ref	Sunroof Harness - Headliner (Dk Blue)	
13	Brown	100	Sunroof Open	Sunroof Harness - Headliner (Brown)	
14	Orange	2440	Battery	Fuse Box	
15	Yellow	1127	Class 2 Serial Data	Class 2 Data Splice Pack - Left Dash (Yellow)	

Be careful when tapping into the Class 2 Serial Data Bus because this is the same bus used to pass messages between computers (PCM, BCM, etc) and can screw up your electrical system completely if not done correctly

Custom Retrofit Harness

To make installation cleaner, I built a custom "T" harness that connects inline at the roof/body harness junction and runs up the C-pillar, along the edge of the headliner and to the DIC between the sun visors. The custom harness passes the non-DIC wires through from the body side to the roof side of the harness. The remaining DIC circuits (as well as circuits that are used for DIC and non-DIC functions) are routed up to the DIC.

The connections for this harness are as follows

DIC Pin	DIC Retrofit Harness Color	Body Harness Color	Body/Roof Retrofit Harness	Roof/Body Pin	Roof Harness Color	Function	
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			Color			
		DK BLUE/WHT	BLUE	А	DK BLUE/WHT	Courtesy Lamps
		BLACK	BLACK	В	BLACK	Ground
		LT GRN	GREEN	С	LT GRN	Backup Lamps
14	ORANGE	ORN		D	ORN	Battery Supply
13	BROWN	BROWN		Е	BROWN	Sunroof Open Signal
15	YELLOW	YELLOW		F		Class 2 Data Bus
12	BLUE	DK BLUE		G	DK BLUE	Sunroof Low Ref
10	GREEN	LT GRN/BLK		Н		Ambient Temp
8	BLACK	BLK/WHT		J		Ground
11	RED	ORN		K	ORN	Sunroof Close Signal
		GRY	WHITE	L	GRY	Interior Lamps
7	WHITE	BRN	BROWN	S	BRN	Ignition 3

Here is a picture of the harness:



Click Image to Enlarge

The short section at the top of the picture connects between the body and roof harness. The existing circuits are carried through while the circuits required by the DIC are split off to the DIC connector on the right (with the red pin lock).

The part numbers for the mating connectors can be found in the factory wiring section above.

NOTE: This Retrofit Harness will not work for the 9C1/9C3 Police Package because the DIC circuits are not present in the body/roof harness junction.

The harness can be routed from the bottom of the C-Pillar, up to the top of the C-Pillar, along the passenger edge of the headliner, and to the center of the roof where the DIC will be mounted. In order to make things easy, remove the passenger rear C-Pillar molding, the rear passenger grab handle/coat hook, and both sun-visor center clasps.

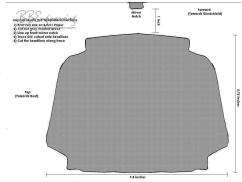
Note: The Retrofit Harness allows the DIC to be installed without cutting or splicing any connections, it is meant to be plug and play. It plugs inline with the roof/body harness connector located at the C-Pillar/Rear Deck junction. These harnesses are available for sale. For more information, send email to the address at the bottom of the page.

Mounting Details

The position of the DIC on the headliner is fairly critical (more so on the CF5 Sunroof equipped cars). The DIC is centered (left to right) in the headliner between the two sun visor retainer clips. The front

edge sits approx 1/2" back from the windshield.

In order to mount the DIC, a hole must be cut in the headliner. Below is the template used for cutting the hole in the headliner. Simply print out a copy (full size, preferably on card stock), cut the center out the shaded areas and tape it to the headliner. Once it is in position, trace the cutout onto the headliner using a pencil.



Click Image to Enlarge

Before cutting the headliner, it important to move all of the existing harnesses out of the way. Pry them off the headliner (they are glued) and temporarily tape them to the underside of the roof. This will provide enough clearance so you don't cut the harness while making the mounting hole. To get enough clearance to work above the headliner, remove the sun visor retainer clips (and the sun visors as well if necessary). For sunroof equipped cars, you will have to remove the sunroof switch as well.

The hole in the headliner can be cut using a sharp utility knife. Make sure that you don't "break" or crease the headliner while cutting. You may have to trim the hole after you cut it. The utility knife works well for this also.

Once the hole is cut, position the mounting bracket above the headliner, make sure it is straight and in the correct position. Snap the front clips of the DIC into the bracket, then screw in the screw at the windshield.

Finishing Details

Here are the before and after pictures:

Before DIC Install (w/ Sunroof Switch)

After DIC Install



Click Image to Enlarge

Click Image to Enlarge

The color variation is due to the sun's position. The interior is medium grey.

Troubleshooting

Calibration Procedure (from the Service Manual)

Calibration

The compass is self-calibrating, eliminating the need to manually set the compass. Occasionally, the calibration process on a new vehicle may not be complete, causing the CAL symbol to illuminate. In order to correct this problem, drive the vehicle less than 8 km/h (5 mph) through 3 complete 360 degree turns. The CAL symbol will then turn OFF and the compass will function normally. If the compass appears erratic and the CAL symbol does not appear, you must manually put the compass into the calibration mode.

- 1. Turn ON the ignition.
- 2. Press the MODE button until the compass/temperature mode appears.
- 3. Press and hold the RESET button on the overhead console for approximately 10 seconds, or until the display reads CAL.
- 4. Release the RESET button and drive the vehicle less than 8 km/h (5 mph) through 3 complete 360 degree turns. The CAL symbol will turn off when the compass is calibrated, and the compass will function normally.

Variance

Variance is defined as the difference between magnetic north and geographic north. In some areas of the country, this difference is great enough to cause false compass readings. Set the variance for a particular location as follows:

- 1. Determine the vehicle's location on the zone map. Note the zone number.
- 2. Turn ON the ignition.
- 3. Press the MODE button until the compass/temperature mode appears.
- 4. Press and hold the RESET button on the overhead console for approximately 5 seconds. The last entered variance zone appears on the display.
- 5. Press the MODE button until the correct zone number appears on the display.
- 6. Press the RESET button in order to set the new variance zone and resume normal operation. The display will illuminate all segments briefly in order to acknowledge the change in the zone number.



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