

# 9<sup>th</sup> gen Civic Automatic Climate Control Conversion

## Swapped Wires

Pin Number in Manual Harness	Map to Pin Number in Automatic Harness	Comments
1	1	Illumination positive.
2	2	No connection on either.
3	32	Illumination ground/dimming.
4	N/A	Not connected.
5	3	Air mix control motor pin 7.
6	4	Air mix control motor pin 6.
7	5	Mode control motor pin 6.
8	6	Mode control motor pin 7.
9	7	Recirculation control motor pin 6.
10	8	Recirculation control motor pin 7.
11	N/A	Not connected.
12	9	Recirculation control motor pin 5.
13	10	Air mix control motor pin 5.
14	11	Mode control motor pin 5.
15	N/A	Not connected.
16	16	Will need to be spliced into the in-car temperature sensor harness.
17	17	Main power.
18	N/A	Not connected.
19	19	Main ground.
20	20	Sensor power.
21	N/A	Not connected.
22	12	Blower motor gate.
23	N/A	Not connected.
24	13	Blower motor drain.
25	N/A	Not connected.
26	24	Rear defogger.

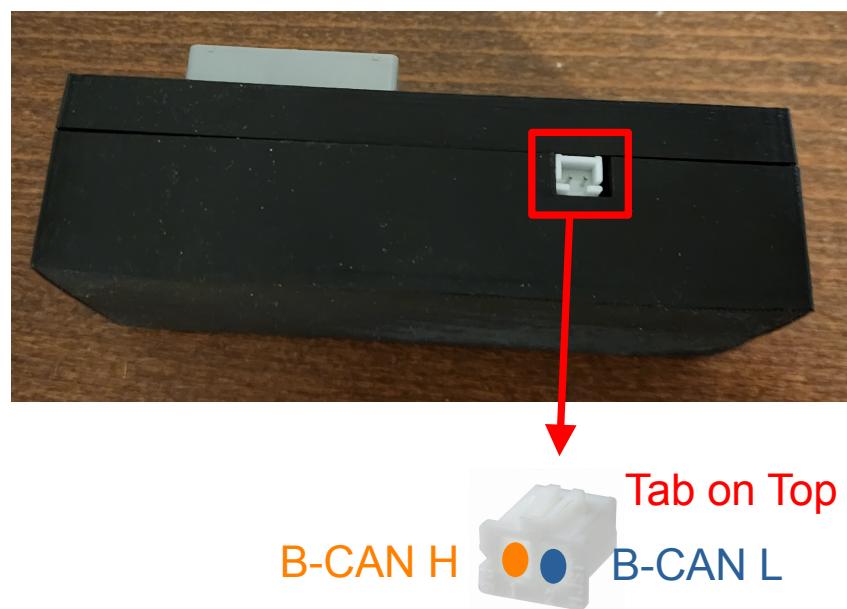
27	25	A/C thermal switch detection.
28	CAN	Connection to MICU, presumably the equivalent command is sent through the CAN bus with automatic.
29	N/A	Not connected.
30	CAN	ECON switch. The equivalent command is most likely sent through the CAN bus.
31	N/A	Not connected.
32	14	Evaporator temperature sensor.

## New Pins

Pin Number in Automatic Harness	Source	Comments
20	In-Car Sensor Pin 3	Needs to tee off from the sensor power wire.
22	In-Car Sensor Pin 2	
23	In-Car Sensor Pin 4	
16	In-Car Sensor Pin 1	Ground.
20	Sunlight Sensor Pin 3	Sunlight sensor power.
21	Sunlight Sensor Pin 2	Sunlight sensor value.
26	B-CAN H	
27	B-CAN L	
18	Outside Air Temperature Sensor	Pulled from CAN lines.

# Connections

Connect to light sensor



# Testing

1. Make the connections shown in the previous section inside the car.
2. Switch the car on to the Accessory 2 mode (press the button twice with no clutch or brake).
3. Confirm that the blower fan is operational. Turn the fan speed knob and confirm that the blower speed increases and decreases as expected.
4. Set the temperature to your desired number. Press the “Rear Defogger” button and confirm that you hear the “click” of the relay under the hood.
5. Turn the car off. Press and hold the “Auto” and “Recirculate” buttons and switch the car on to Accessory 2 again. The climate control module will activate in sensor input mode.
6. Use the “Rear Defogger” button to cycle through the available sensors.
7. Confirm the sensor readings as follows:
  1. Sensor 1 – Vent Mode: Press the “Mode” button to adjust the vent door position. Press the “Front Defrost” button and confirm that this value goes to 100 (indicated by F0), then press the “Mode” button and confirm that it decreases with each mode, stopping at 0 on full upper vent.
  2. Sensor 2 – Interior Temperature: Confirm that this reading is approximately equal to the temperature inside the car. Note that this value is always given in °C.
  3. Sensor 3 – Outside Temperature: Confirm that this reading is approximately equal to the ambient temperature. This value is, again, in °C.
  4. Sensor 4 – Sunlight: This sensor should read 0 in the garage and higher outside. If the sun is shining directly on the light sensor, it could read as high as 50.
  5. Sensor 5 – Evaporator Temperature: If the car is not running, confirm that this reading is approximately the same as that of sensor 2 (interior temperature). When running, it should get close to (but never below) 0.
  6. Sensor 6 – Blend Door Position: Turn the temperature knob up and down and confirm that this value increases and decreases, respectively.
  7. Sensor 7 – Recirc Door Position: Press the “Recirc” button to toggle the recirculation mode. The value should increase when recirculation mode is on.
  8. Sensor 8 – Vehicle Speed: This reading is from the car’s CAN bus. It should read 0 with the car in Accessory 2.
  9. Sensor 9 – Coolant Temperature: This reading is, again, from the CAN bus. The value will depend on when the engine was last on.

10. Sensor A – Vent Temperature: This is the “desired” vent temperature that the climate control unit will adjust the blend door for. Turn the temperature knob up and down and confirm that this value increases and decreases, respectively.
11. Sensor B – Humidity: Confirm that this reading matches the approximate humidity inside the car. If the interior of the car is stuffy and humid, this reading should be over 60.
12. Sensor C – Version

Note: If the fan speed bars are not visible when sensor C is selected, and sensors “D” and “E” are present, the climate control unit installed is meant for the hybrid model and should be replaced.

8. If all readings look okay, start the engine while holding “Auto” and “Recirc” on the climate control unit.
9. Navigate back to sensor 5. Ensure the evaporator temperature does not pass below 0.
10. Navigate to sensor 9. The value should be increasing and holding at operating temperature.