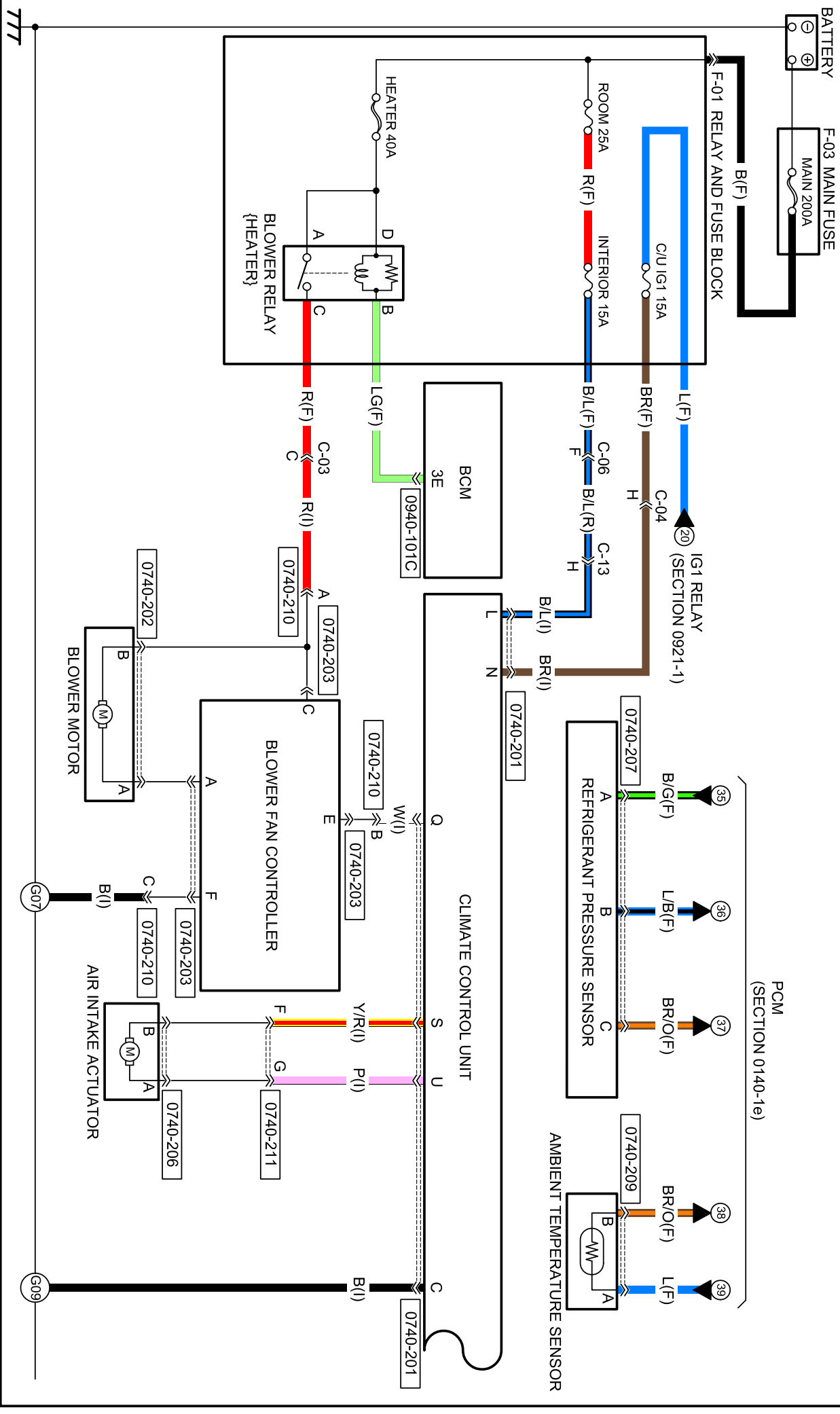




2016 Mazda MX-5
HEATER AND AIR CONDITIONER SYSTEM (FULL-AUTO A/C)

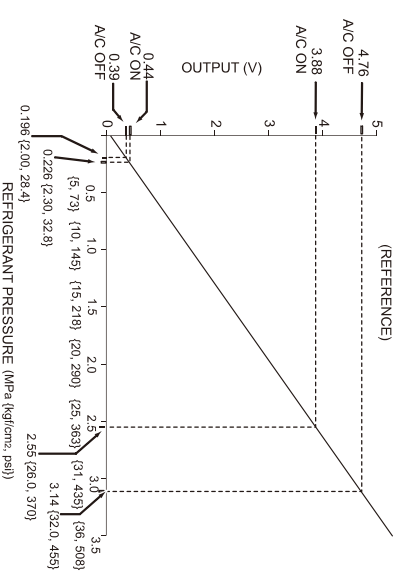
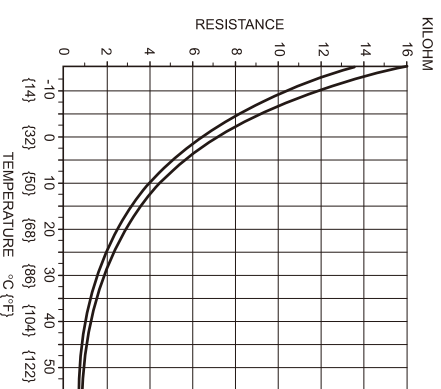
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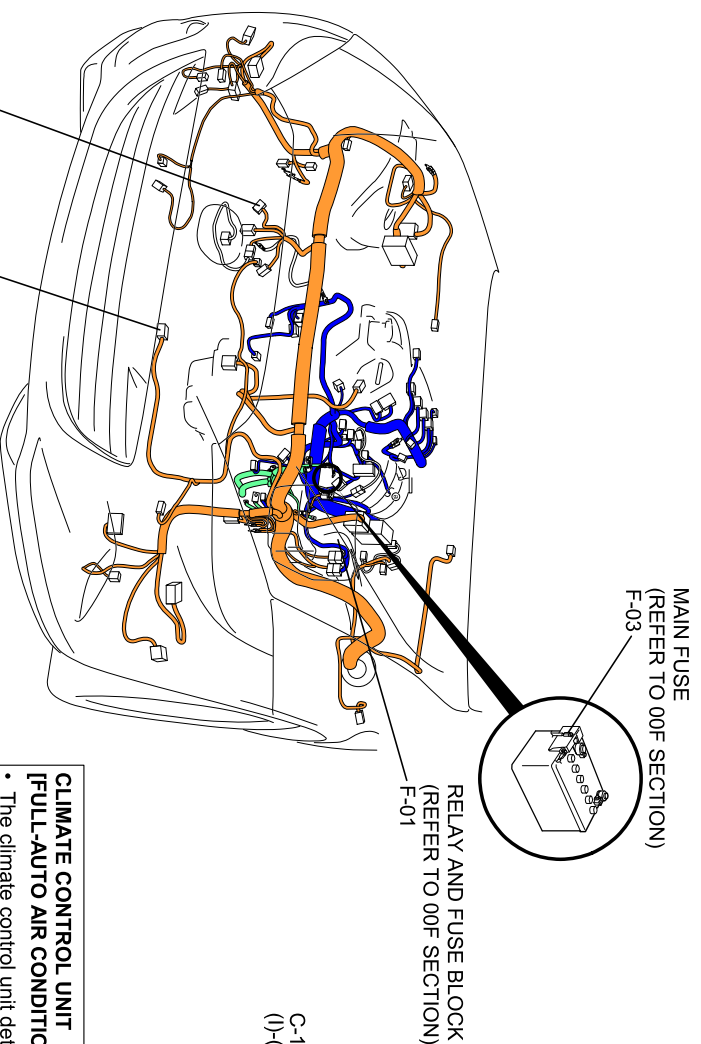
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Body control module (BCM) terminal voltage table (reference)

Terminal	Measurement condition	Voltage (V)
3E	Ignition is switched ON (engine off or on) Blower motor is operated using fan switch Blower motor is turned off by pressing climate control unit OFF button	1.0 or less B+

Terminal	Measurement condition	Voltage (V)	
C	Under any condition	1.0 or less	
L	Under any condition	B+	
N	Switch the ignition ON (engine off or on)	B+	
	Switch the ignition off	1.0 or less	
	Switch the ignition off	1.0 or less	
Q	Fan stopped (Switch the ignition ON (engine off or on))	B+	
	• Airflow mode: VENT • Air intake mode: RECIRCULATE	Fan: manual 1st	11.03
		Fan: manual 3rd	7.68
		Fan: manual 7th	5.68
S	Moving towards RECIRCULATE	B+	
	Moving towards FRESH	1.0 or less	
U	Moving towards RECIRCULATE	1.0 or less	
	Moving towards FRESH	B+	





AMBIENT TEMPERATURE SENSOR [FULL-AUTO AIR CONDITIONER]

- The ambient temperature sensor converts the detected air temperature to an electric signal.

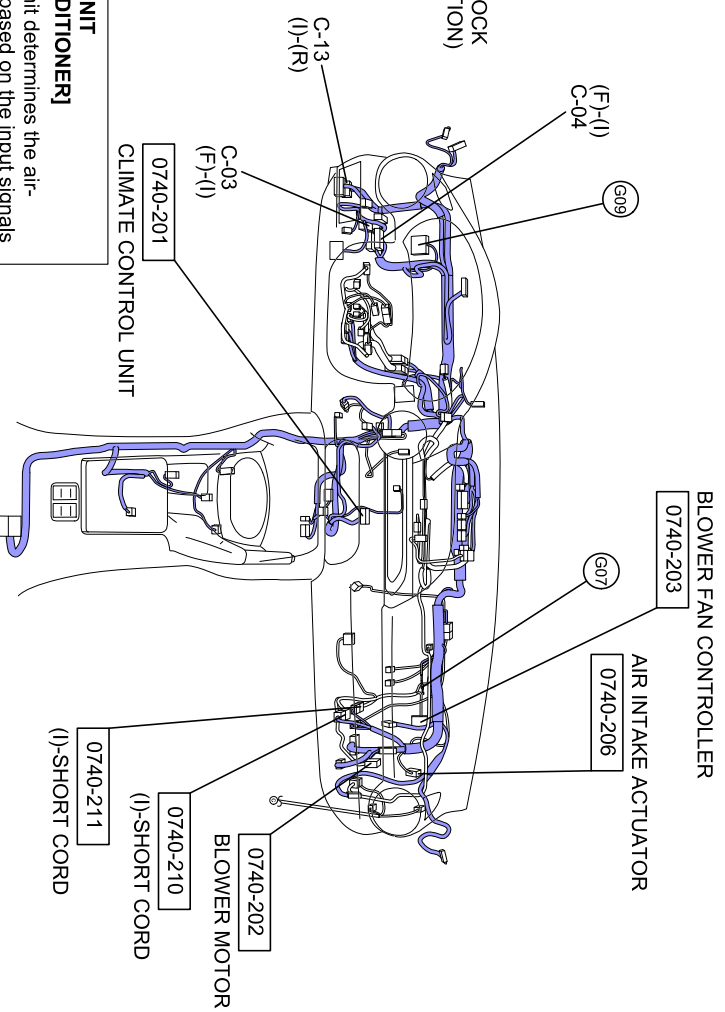
REFRIGERANT PRESSURE SENSOR [FULL-AUTO AIR CONDITIONER]

- The refrigerant pressure sensor detects the refrigerant pressure in the refrigeration cycle and converts it to an electric signal.

: FRONT HARNESS
 : ENGINE HARNESS
 ENGINE No.2 HARNESS
 : REAR HARNESS
 : INSTRUMENT PANEL HARNESS
 : EMISSION HARNESS

CLIMATE CONTROL UNIT [FULL-AUTO AIR CONDITIONER]

- The climate control unit determines the air-conditioning conditions based on the input signals from each sensor and the control module and the operation signals from the control panel, and controls each actuator, A/C compressor, and the blower motor.



AIR INTAKE ACTUATOR [FULL-AUTO AIR CONDITIONER]

- The air intake actuator opens/closes the air intake door to the FRESH or RECIRCULATE position by driving the motor.

BLOWER FAN CONTROLLER

- By placing the fin in the upper part of the blower fan controller, temperature increase in the internal circuit is suppressed.
- The blower fan controller is equipped with a fail-safe function for the purpose of protecting the internal circuits.

