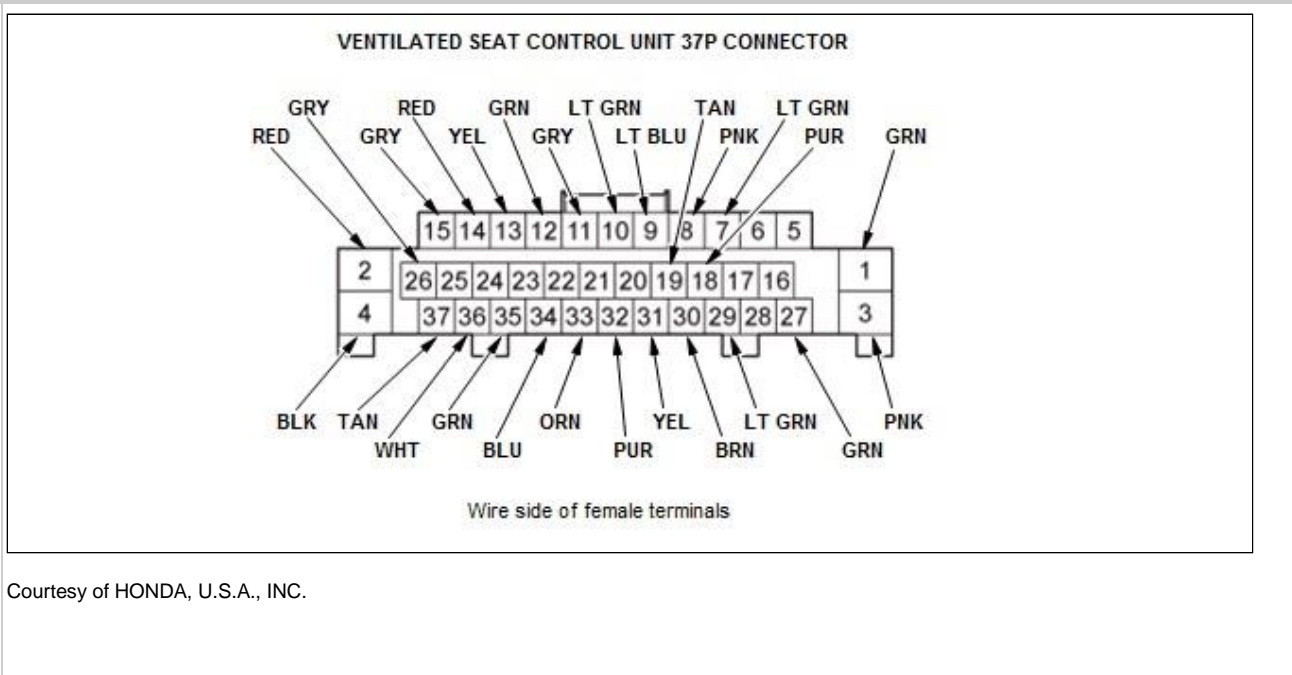


TESTING > VENTILATED SEAT CONTROL UNIT INPUT TEST (2016-18)

NOTE: Before testing, check the No. A2-3 (60 A) fuse in the under-hood fuse/relay box.

1. Disconnect the 37P connector from the ventilated seat control unit .



2. Inspect the connector and socket terminals to be sure they are all making good contact.

- If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system. If
- the terminals look OK, go to step 3.

3. Reconnect the 37P connector to the control unit, and do the following input tests.

- If any test indicates a problem, find and correct the cause, then recheck the system. If
- all the input tests prove OK, go to step 4.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
2	RED	Power mode ON	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B14 (20 A) fuse in the under-dash fuse/relay box • Faulty ventilated seat relay • An open or high resistance in the wire

37	TAN	Power mode ON	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • An open or high resistance in the wire
26	GRY	Combination light switch (PARKING position) ON	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B35 (7.5 A) fuse in the under-dash fuse/relay box • An open or high resistance in the wire
4	BLK	In all power modes	Measure the voltage to ground:There should be less than 0.2 V.	<ul style="list-style-type: none"> • Poor ground (G702) An • open or high resistance in the ground wire
Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
3	PNK	Power mode ON, driver's seat HEAT button pressed	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Faulty driver's seat heater • Poor ground (G701) or an open in the ground wire • An open or high resistance in the wire
1	GRN	Power mode ON, front passenger's seat HEAT button pressed	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Faulty front passenger's seat heater • Poor ground (G702) or an open in the ground wire • An open or high resistance in the wire

4. Press the engine start/stop button to select the OFF mode

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
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13	YEL	Power mode ON	Connect to ground with a jumper wire:The driver's	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash
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5. Disconnect the 37P connector from the control unit, and do the following input tests:

- If any test indicates a problem, find and correct the cause, then recheck the system. If
- all the input tests prove OK, the control unit must be faulty; replace it .

			seat heater HIGH indicator should come on.	<p>fuse/relay box</p> <ul style="list-style-type: none"> • Faulty driver's ventilated seat switch • An open or high resistance in the wire
34	BLU	Power mode ON	Connect to ground with a jumper wire:The driver's seat heater MIDDLE indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire
12	GRN	Power mode ON	Connect to ground with a jumper wire:The driver's seat heater LOW indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire
36	WHT	Power mode ON	Connect to ground with a jumper wire:The driver's ventilated seat HIGH indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire
15	GRY	Power mode ON	Connect to ground with a jumper wire:The driver's ventilated seat MIDDLE indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
33	ORN	Power mode ON	Connect to ground with a jumper wire:The driver's ventilated seat LOW indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire
11	GRY	Power mode ON	Connect to ground with a jumper wire:The front passenger's seat heater HIGH indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire
32	PUR	Power mode ON	Connect to ground with a jumper wire:The front passenger's seat heater MIDDLE indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire
10	LT GRN	Power mode ON	Connect to ground with a jumper wire:The front passenger's seat heater LOW indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire

35	GRN	Power mode ON	Connect to ground with a jumper wire:The front passenger's ventilated seat HIGH indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire
14	RED	Power mode ON	Connect to ground with a jumper wire:The front passenger's ventilated seat MIDDLE indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire
31	YEL	Power mode ON	Connect to ground with a jumper wire:The front passenger's ventilated seat LOW indicator should come on.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch An • open or high resistance in the wire
29	LT GRN	Power mode ON, driver's seat HEAT button pressed	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire
Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
8	PNK	Power mode ON, driver's seat VENTILATION button pressed	Measure the voltage to ground:There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty driver's ventilated seat switch • An open or high resistance in the wire

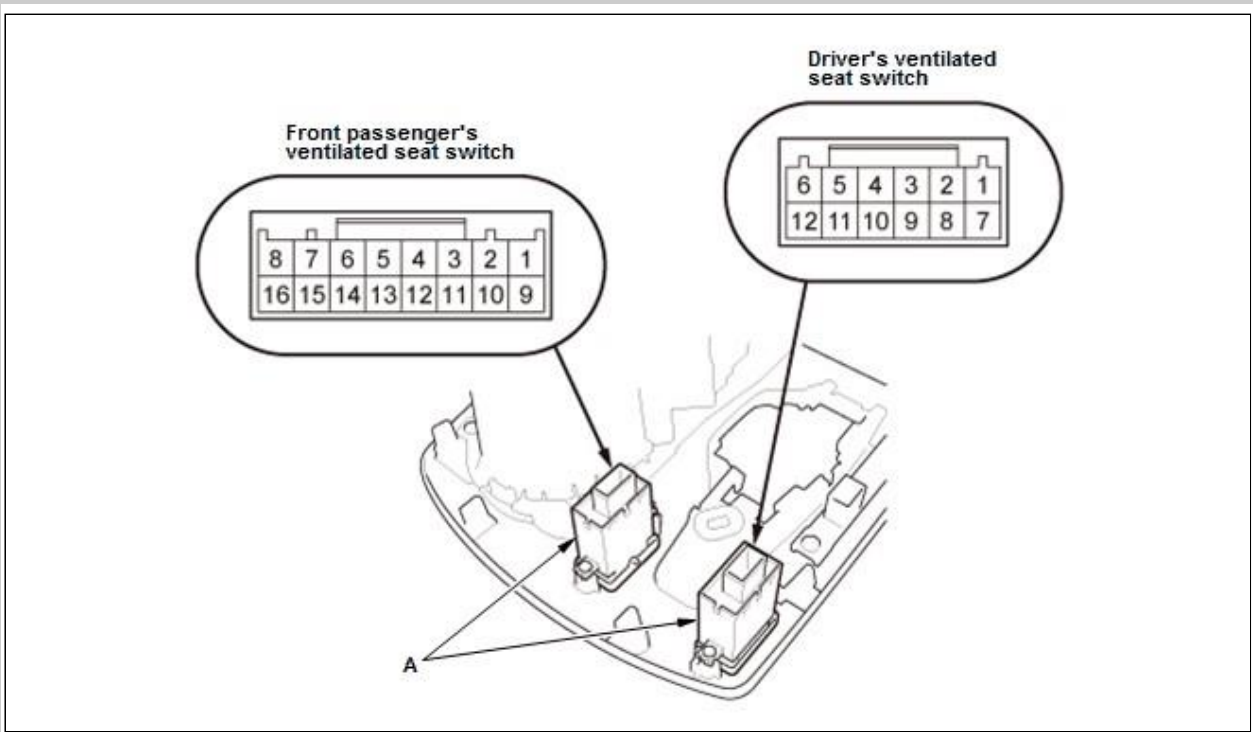
30	BRN	Power mode ON, front passenger's seat HEAT button pressed	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch • An open or high resistance in the wire
9	LT BLU	Power mode ON, front passenger's seat VENTILATION button pressed	Measure the voltage to ground: There should be battery voltage.	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash fuse/relay box • Faulty front passenger's ventilated seat switch • An open or high resistance in the wire
7	LT GRN	Under all conditions	Check for continuity between terminals No. 7 and No. 18: There should be continuity.	<ul style="list-style-type: none"> • Faulty driver's seat cushion heater An • open or high resistance in the wire
18	PUR			
27	GRN	Under all conditions	Check for continuity between terminals No. 27 and No. 19: There should be continuity.	<ul style="list-style-type: none"> • Faulty front passenger's seat cushion heater An open or high resistance in the wire
19	TAN			

TESTING > VENTILATED SEAT SWITCH TEST (2016-18) > TEST

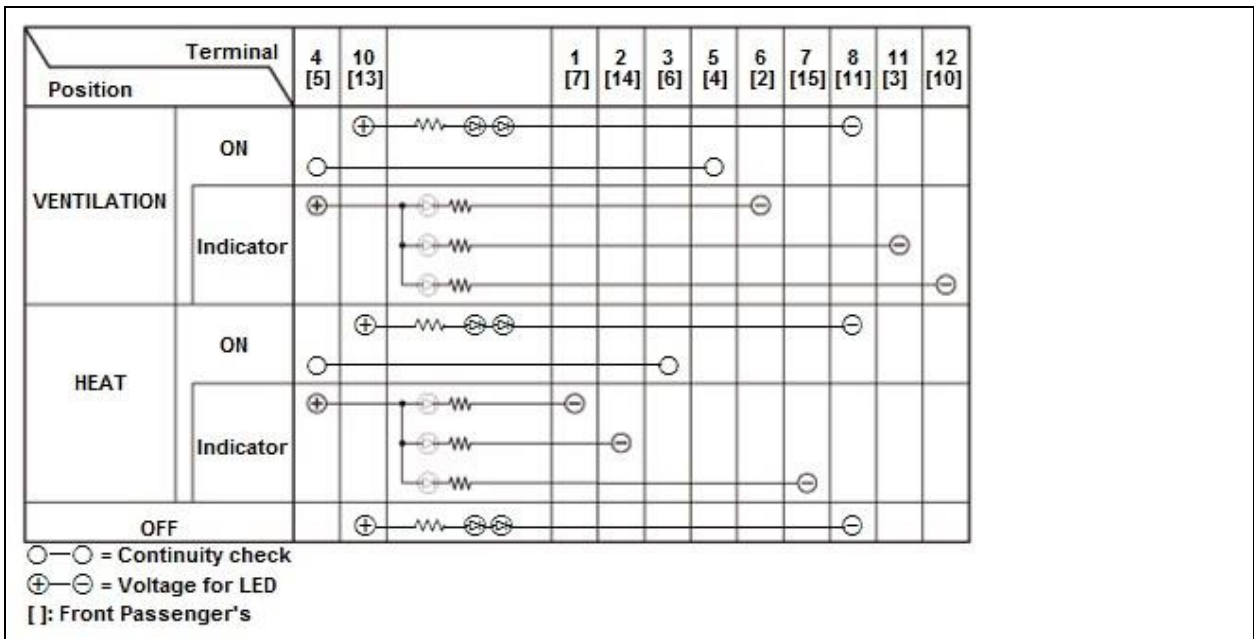
1. Center Console Panel - Remove

2. Ventilated Seat Switch - Test

1. When an LED is located between terminals, check if the LED lights up by connecting power and ground to the LED.
2. Note this important operating characteristic; diode bias causes a diode to fully conduct electricity in one direction (forward), while not at all in the opposite direction (reverse).



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2. If the result is not as specified, replace the ventilated seat switch(s) .

3. All Removed Parts - Install

1. Install the parts in the reverse order of removal.