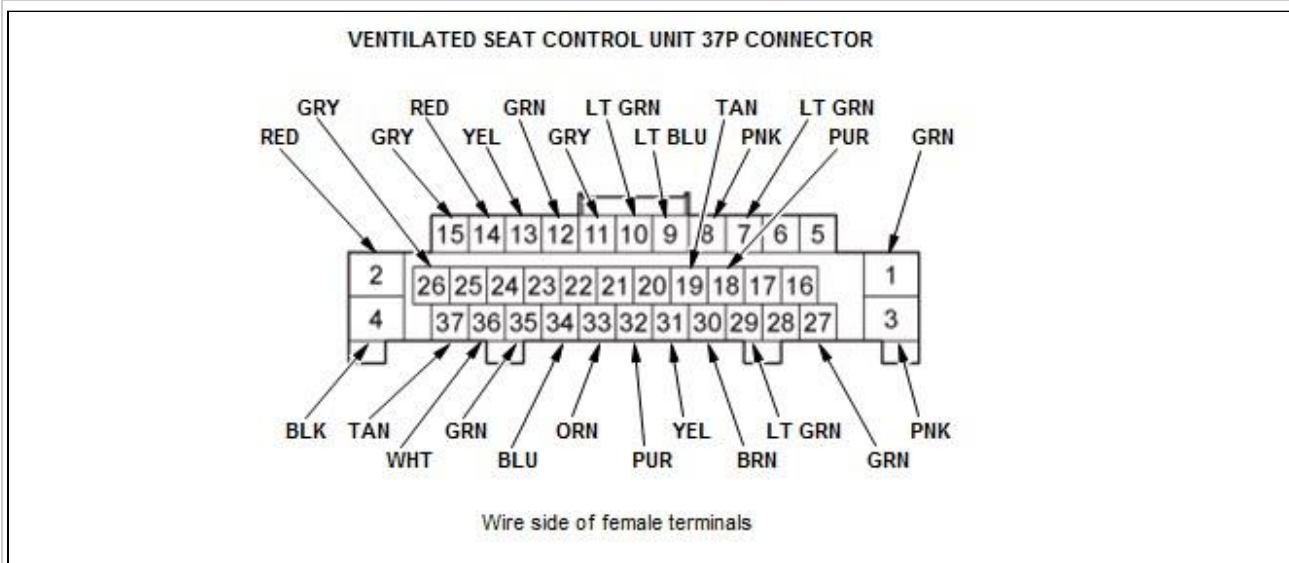


TESTING > VENTILATED SEAT CONTROL UNIT INPUT TEST (2016-18)

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 .



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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
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				result is not obtained
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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 .

13	YEL	Power mode ON	Connect to ground with a jumper wire:The driver'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 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	<ul style="list-style-type: none"> • Blown No. B23 (10 A) fuse in the under-dash
			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
18	PUR			
				<ul style="list-style-type: none"> • An open or high resistance in the wire
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			