



NUMBER: 08-075-14

GROUP: Electrical

DATE: September 06, 2014

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THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 14-072. ALL APPLICABLE UN-SOLD RRT VIN's HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

SUBJECT:

Heated Mirror Feature Inoperable

OVERVIEW:

This bulletin involves installing the correct HVAC control head, updating vehicle configuration and installing an overlay harness as necessary.

MODELS:

2014 (VF) ProMaster

NOTE: This bulletin applies to vehicles equipped with Power Folding/Heated Mirrors (sales code GTR) built on or before December 6, 2013 (MDH 1206XX).

SYMPTOM/CONDITION:

Customers may indicate that the heated mirror feature is inoperable. Vehicles built with sales code GTR may not have been properly equipped with the components and/or vehicle configuration necessary to operate the heated mirror feature. Vehicles involved in this action fall into one of the following repair scenarios depending on how they were built:

- Vehicle configuration update
- Vehicle configuration update and overlay harness installation
- HVAC control head replacement and vehicle configuration update
- HVAC control head replacement, vehicle configuration update and overlay harness installation

DIAGNOSIS:

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	5NC24DX9AD	Control Module, HVAC
1	68249172AA	Overlay Harness

REPAIR PROCEDURE:

1. Does the HVAC control head contain the heat/defrost button (See Figure 1)?
 - a. If Yes>>> Proceed to Step 2.
 - b. If No>>> Proceed to Step 3.

**Fig. 1 HVAC Control Head**

1 - Defrost Button

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2. Is the vehicle equipped with fog lamps, rear 12 volt power outlet, alarm system or Daytime Running Lamps (sales codes LNJ, JKP, LSA or LMK)?
 - a. If Yes>>> Refer to Repair Scenario #1 listed below.
 - b. If No>>> Refer to Repair Scenario #2 listed below.
 3. Is the vehicle equipped with fog lamps, rear 12 volt power outlet, alarm system or Daytime Running Lamps (sales codes LNJ, JKP, LSA or LMK)?
 - a. If Yes>>> Refer to Repair Scenario #3 listed below.
 - b. If No>>> Refer to Repair Scenario #4 listed below.

Repair Scenario #1

1. Utilizing the wiTECH Diagnostic Application, navigate to Body Control Module (BCM) and select the Misc. Functions tab. Select the Enable Heated Mirrors function then perform the Proxi Alignment routine. This will manually update the vehicle configuration to enable this feature.
2. Activate the heated mirrors using the heat/defrost button on the HVAC control head and verify the mirror heaters are functioning properly.

Repair Scenario #2

1. Complete the **Overlay Harness Installation Procedure** listed below.
2. Utilizing the wiTECH Diagnostic Application, navigate to Body Control Module (BCM) and select the Misc. Functions tab. Select the Enable Heated Mirrors function then perform the Proxi Alignment routine. This will manually update the vehicle configuration to enable this feature.
3. Activate the heated mirrors using the heat/defrost button on the HVAC control head and verify the mirror heaters are functioning properly.

Repair Scenario #3

1. Replace the HVAC control head assembly using p/n 5NC24DX9AD. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 24 - Heating & A/C> Controls> Control, A/C and Heater> Removal & Installation.
2. Utilizing the wiTECH Diagnostic Application, navigate to Body Control Module (BCM) and select the Misc. Functions tab. Select the Enable Heated Mirrors function then perform the Proxi Alignment routine. This will manually update the vehicle configuration to enable this feature.
3. Activate the heated mirrors using the heat/defrost button on the HVAC control head and verify the mirror heaters are functioning properly.

Repair Scenario #4

1. Complete the **Overlay Harness Installation Procedure** listed below.
2. Replace the HVAC control head assembly using p/n 5NC24DX9AD. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 24 - Heating & A/C> Controls> Control, A/C and Heater> Removal & Installation.
3. Utilizing the wiTECH Diagnostic Application, navigate to Body Control Module (BCM) and select the Misc. Functions tab. Select the Enable Heated Mirrors function then perform the Proxi Alignment routine. This will manually update the vehicle configuration to enable this feature.
4. Activate the heated mirrors using the heat/defrost button on the HVAC control head and verify the mirror heaters are functioning properly.

Overlay Harness Installation Procedure

1. Disconnect the negative battery cable.
2. Remove the left head lamp assembly. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical> Lamps and Lighting> Lamps/Lighting-Exterior> Unit, Front Lamp> Removal.
3. Remove the two screws securing the front Power Distribution Center (PDC) cover. Remove the cover and the PDC from the mounting clips.
4. Turn the PDC over and disconnect the tan colored C1 connector (See Figure 2).

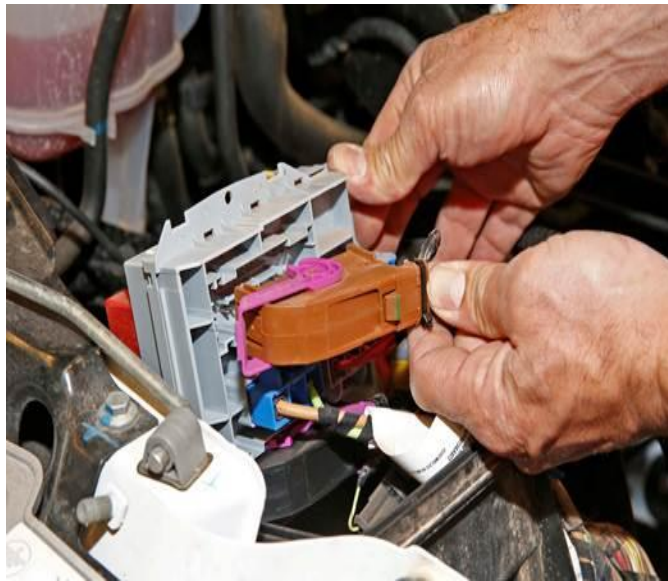


Fig. 2 PDC Connector C1 Location

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5. Cut the zip strap located at the base of the C1 and remove the connector cover (See Figure 3).



Fig. 3 PDC Connector C1 Dissassembly

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6. Remove the screws securing the knee blocker below the steering column and remove the knee blocker panel.
 7. Remove the mounting screws from the Body Control Module (BCM) and place to the side to gain access to the bulkhead.
 8. Locate the head lamp/dash harness grommet where it passes through the bulkhead (See Figure 4 & 5). Remove the tape from both sides of the grommet.



Fig. 4 Bulkhead Grommet Outside View



Fig. 5 Bulkhead Grommet Inside View

9. Locate the overlay harness (p/n 68249172AA) and find the end that contains all three circuits (See Figure 6).

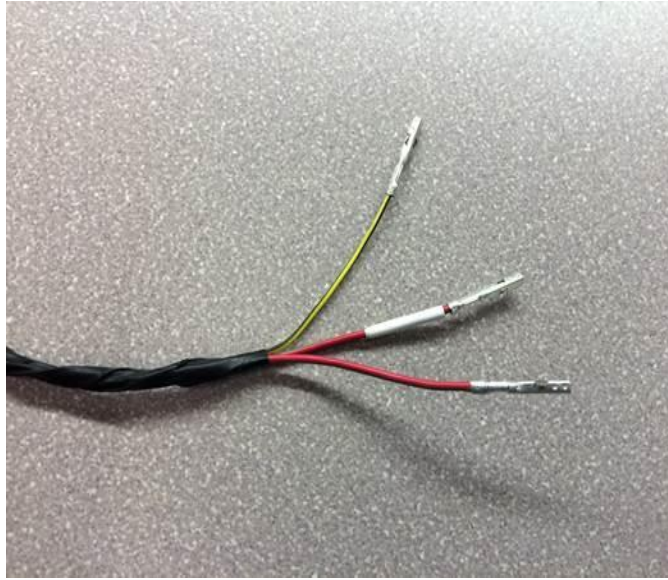


Fig. 6 Overlay Harness PDC Connection

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10. Locate a straight piece of mechanic's wire approximately 1-2 feet in length. This wire will be used as a fish tape/line to pull the overlay through the grommet. Tape the end of the overlay harness referenced in Step 9 to one end of the wire. Push the other end of the wire through the grommet as close to the harness opening as possible (See Figure 7).



Fig. 7 Overlay Harness Through Grommet

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11. Pull the wire and overlay harness through the grommet until enough length is exposed to properly route it along the head lamp/dash harness down to the PDC (See Figure 8).

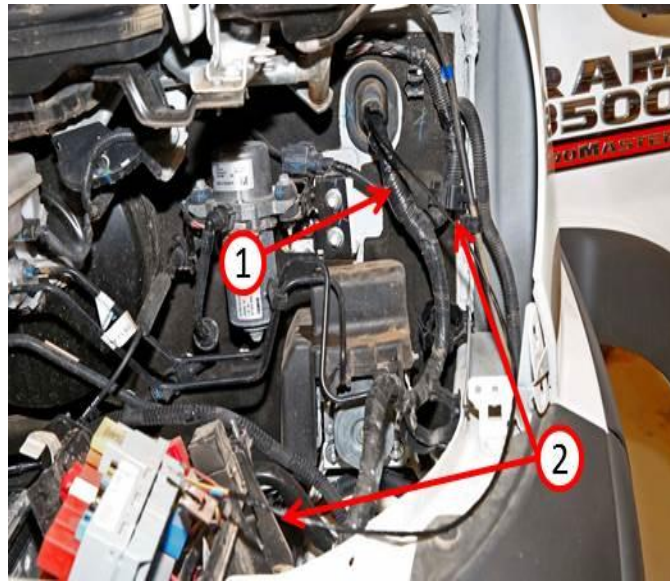


Fig. 8 Overlay Harness Underhood Location

- 1 - Headlamp/Dash Harness
- 2 - Overlay Harness

12. Insert the YL/BK circuit terminal into cavity 23 of connector C1. Next, insert the untagged RD/GN circuit terminal into cavity 5. Finally, insert the tagged RD/GN circuit terminal into cavity 4 (See Figure 9, 10 & 11).

C001.AA				
PIN	GAUGE	COL	CONN. TO	PIN TO
1	1.5	G	X008.AA	4
2	1.0	LR	E042.AA	27
3	2.5	R	G001.AB	8
3	2.5	MH	D002.AA	3
4	0.75	RV	X008.AA	1
5	0.75	RV	X008.AA	2
6	0.35	HG	G001.AA	1
8	0.35	L	C042.AA	29
10	0.35	HR	M103.AB	5
10	0.35	HR	C001.AC	5
11	0.5	HN	E004.AC	20
12	0.5	N	G001.AA	1
14	0.5	MB	D002.AA	3
14	0.35	MB	M102.AA	53
16	1.5	H	Y003.AA	9
17	0.35	BZ	M103.AB	10
17	0.35	NZ	G001.AA	1
18	2.5	M	M102.AB	1
20	0.35	VR	Y003.AA	2
20	0.75	VR	E042.AA	28
21	0.35	MV	E004.AD	51
22	1.5	HR	Y003.AA	24
23	0.35	GN	E004.AD	19
25	0.5	HG	Y003.AA	24
27	0.75	BZ	L020.AA	8
30	2.5	BN	D002.AA	1
32	2.5	RG	W007.AA	25

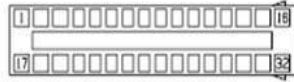


Fig. 9 PDC Connector C1 Pinout

- 1 - Cavity 4 RD/GN Circuit With White Tag
- 2 - Cavity 5 RD/GN Circuit Without Tag
- 3 - Cavity 23 YL/BK Circuit



Fig. 10 PDC Connector C1 Cavity 23

- 1 - Cavity 23 YL/BK Circuit

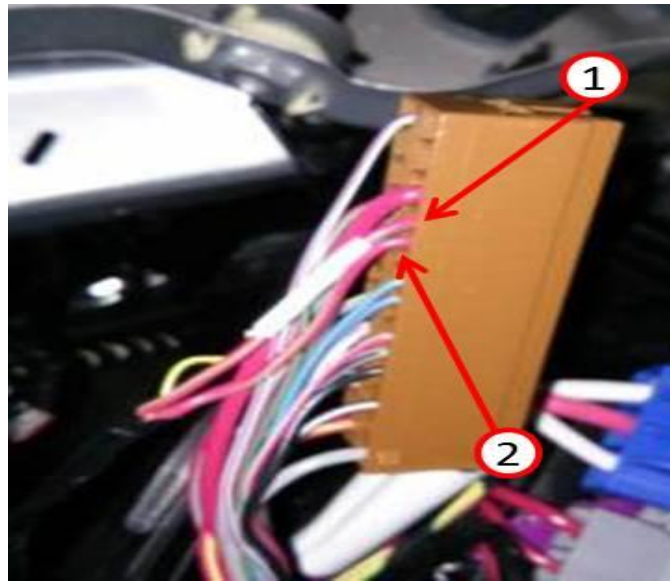


Fig. 11 PDC Connector C1 Cavity 4 and 5

- 1 - Cavity 4 RD/GN Circuit With White Tag
- 2 - Cavity 5 RD/GN Circuit Without Tag

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- 13. Reinstall the connector cover and install a new zip strap to the base.
 - 14. Reinstall connector C1 into the PDC and reinstall the PDC assembly and cover.
 - 15. Install electrical tape along the overlay to secure it in place and place a new piece of tape on both sides of the grommet openings (See Figure 12)



Fig. 12 Overlay Harness Underhood Retention

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- 16. Reinstall the BCM into its mounting location.

17. Inside the vehicle, route the leg of the overlay harness containing the YL/BK circuit towards the front of the BCM (See Figure 13).

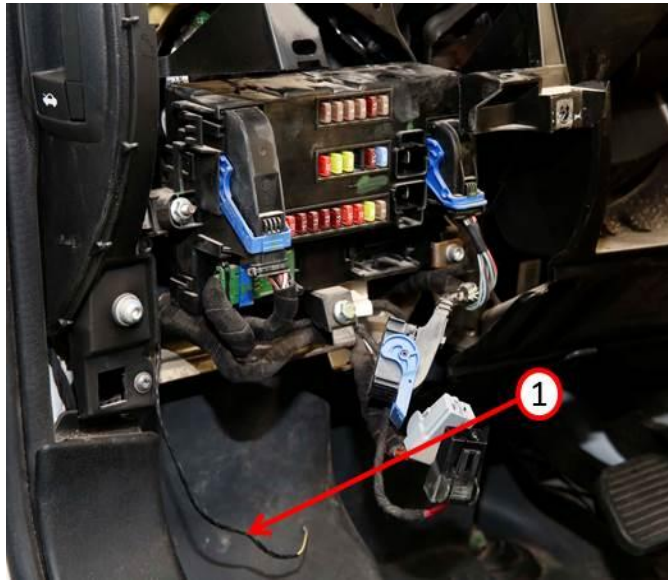


Fig. 13 Overlay Harness BCM Takeout Routing

1 - Overlay Harness - YL/BK Takeout

18. Locate and remove BCM connector C4 which is located on the front of the module (See Figure 14).

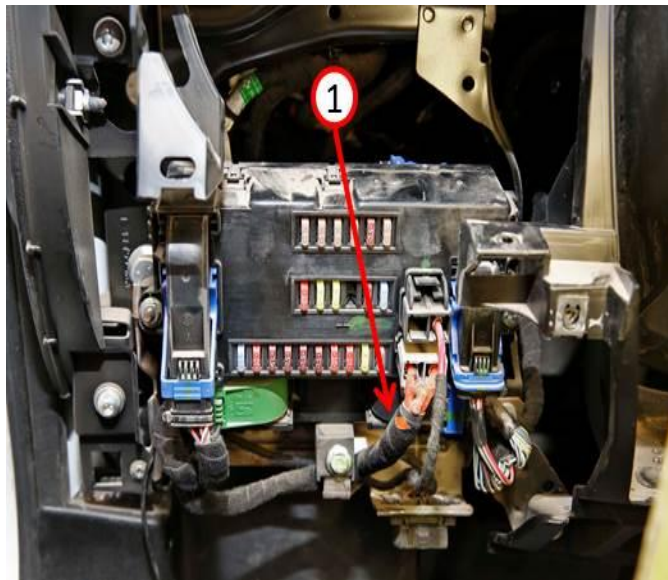


Fig. 14 BCM Connector C4 Location

1 - Connector C4

19. Cut the zip strap located at the base of the C4 and remove the connector cover.
20. Insert the YL/BK circuit terminal into cavity 19 of connector C4 (See Figure 15 & 16).

E004.AD				
PIN	GAUGE	COL	CONN. TO	PIN TO
1	0.35	VH	C012.AA	32
4	0.35	BN	M012.AA	3
7	0.35	BZ	E042.AB	78
8	0.35	NR	S032.AA	2
10	0.35	BL	M012.AA	4
11	0.35	BL	D008.AA	3
12	0.35	LN	W007.AA	28
13	0.35	LN	Z045.AA	5
15	0.35	VG	I001.AA	8
18	0.35	BL	S003.AA	2
19	0.35	GN	C001.AA	23
23	0.5	CB	U053.A	1
25	0.5	LM	S078.AA	2
28	0.35	LV	D008.AA	2
30	0.35	VG	I002.AA	8
31	0.35	LB	I001.AA	3
32	0.35	ZR	X008.AA	7
40	0.35	L	U1310.A	1
41	0.35	B	U1311.A	1
46	0.35	LN	I002.AA	3
47	0.35	ZB	X008.AA	8
51	0.35	MV	C001.AA	21
54	0.35	GH	I002.AA	2
55	0.35	GV	I001.AA	2
57	0.35	VB	U063.A	1
58	0.35	BL	M012.AA	5

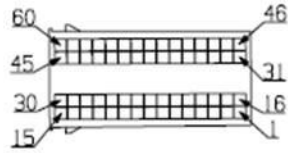


Fig. 15 BCM Connector C4 Pinout

1 - Cavity 19 - YL/BK Circuit

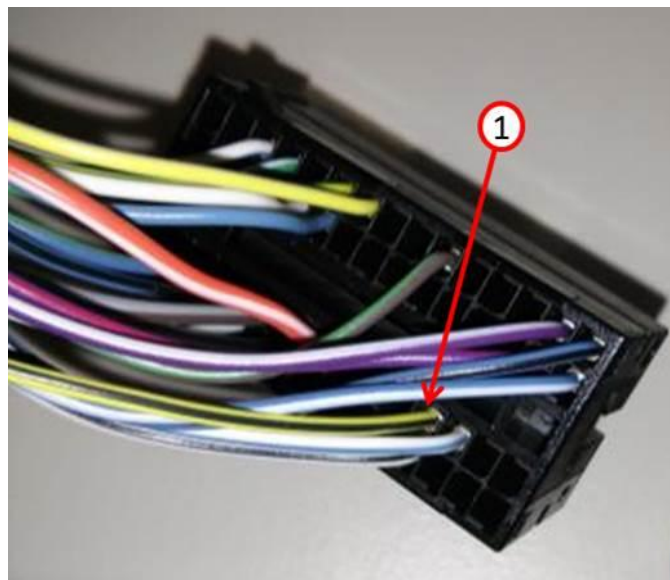


Fig. 16 BCM Connector C4

1 - Cavity 19 - YL/BK Circuit

21. Reinstall the connector cover and install a new zip strap to the base.
22. Reinstall connector C4 into the BCM.

23. Route the remaining portion of the overlay harness around the pedal assembly bracket and secure to the existing harness using electrical tape (See Figure 17).



Fig. 17 Overlay Harness Routing

1 - Route harness along this path and secure using provided electrical tape

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24. Remove the screws securing the cup holder cover assembly and remove the cover.
25. Remove the screws securing the lower dash toe-kick cover located on the passenger side of the vehicle. Remove the toe-kick cover (See Figure 18).



Fig. 18 Toe Kick Panel

1 - Toe Kick Panel

26. Route the overlay harness through the area shown in Figure 19.

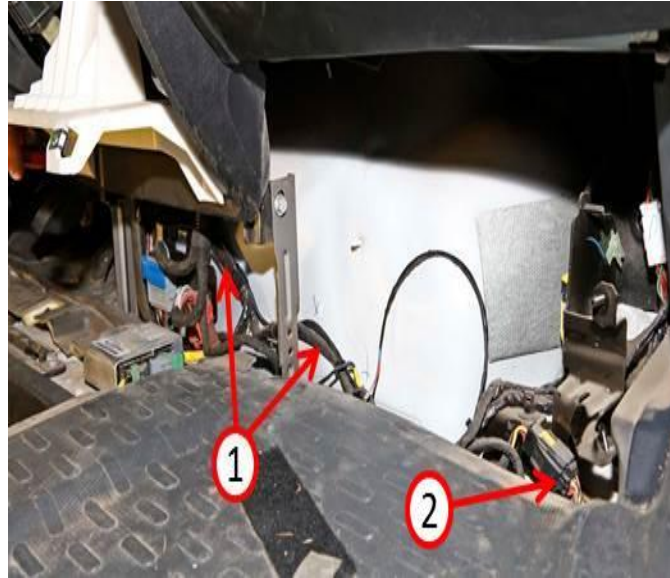


Fig. 19 Overlay Harness Routing to Right Side of Vehicle

- 1 - Route harness along this path and secure using provided electrical tape
- 2 - In-line Connector 1008A

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- 27. Locate in-line connector 1008A found just behind the cover removed in Step 25 (See Figure 19).
 - 28. Disconnect the in-line connector. 1008A is the right side of the in-line.
 - 29. Open the orange connector lock (See Figure 20).



Fig. 20 Inline Connector 1008A

30. Insert the untagged RD/GN circuit terminal into cavity 2. Next, insert the tagged RD/GN into cavity 1 (See Figure 21).



PIN	GAUGE	COL	CONN. TO	PIN TO
1	0.75	RV	C001.AA	4
2	0.75	RV	C001.AA	5
3	0.5	RG	U1661:A	1
4	1.5	G	C001.AA	1
5	0.5	NZ-T8	M103.AA	3
6	0.5	GN	C012.AA	23
7	0.35	ZR	E004.AD	32
8	0.35	ZB	E004.AD	47
9	0.5	GN-T8	M103.AA	12
10	0.5	RN-T8	M103.AA	4

Fig. 21 Inline Connector 1008A Pinout

- 1 - Cavity 1 RD/GN Circuit With White Tag
 2 - Cavity 2 RD/GN Circuit Without Tag

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31. Close the orange connector lock and reconnect inline 1008A.
 32. Reinstall the toe-kick cover.
 33. Reinstall the cup holder cover.
 34. Reinstall knee blocker panel.
 35. Reinstall left head lamp assembly. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical> Lamps and Lighting> Lamps/Lighting-Exterior> Unit, Front Lamp> Installation.
 36. Reconnect the negative battery terminal.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-90-90-94	Repair Scenario #1 (2 - Skilled)	6 - Electrical and Body Systems	0.2 Hrs.
08-90-90-97	Repair Scenario #2 (2 - Skilled)	6 - Electrical and Body Systems	1.3 Hrs.
08-90-90-96	Repair Scenario #3 (2 - Skilled)	6 - Electrical and Body	0.6 Hrs.

		Systems	
08-90-90-95	Repair Scenario #4 (2 - Skilled)	6 - Electrical and Body Systems	1.7 Hrs.

FAILURE CODE:

ZZ	Service Action
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