

DIAGNOSIS AND TESTING (Continued)

PINPOINT TEST TA: DISPLAY PARTIALLY ILLUMINATED OR COMPLETELY BLACK (Continued)

TEST STEP		RESULT	ACTION TO TAKE											
TA4	CHECK FOR SHORTS													
	<ul style="list-style-type: none"> Turn ignition to OFF. Disconnect battery ground cable. Connect an ohmmeter from circuit with blown fuse to ground. Is there continuity? 	No Yes	REPLACE fuse. SERVICE circuit as required.											
TA5	CHECK FOR POWER TO FUSE													
	<ul style="list-style-type: none"> Connect battery. Turn ignition to RUN. Measure voltage from Circuits 797 and 298 to ground. Is voltage greater than 9 volts? 	Yes No	GO to TA6. SERVICE open in fuse holder.											
TA6	CHECK FOR LOOSE CONNECTIONS													
	<ul style="list-style-type: none"> Remove cluster (leave connected). Connect battery. Turn ignition to RUN. Wiggle A and B connectors on rear of cluster. Are connectors OK? 	No Yes	SERVICE as required. GO to TA7.											
TA7	CHECK POWER AND GROUND													
	<ul style="list-style-type: none"> Turn ignition to OFF. Remove cluster as outlined. Turn ignition to RUN. Measure voltage at the harness connector A and B of the cluster. Voltage should be: <table border="1" data-bbox="188 976 868 1120"> <thead> <tr> <th>PIN</th> <th>FUNCTION</th> <th>VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>7A</td> <td>BATT</td> <td>Battery Voltage</td> </tr> <tr> <td>9A</td> <td>RUN</td> <td>Battery Voltage</td> </tr> <tr> <td>14B</td> <td>RUN</td> <td>Battery Voltage</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Check continuity of ground circuit Pins 8A and 13B to battery ground. Are voltage and continuity present? 	PIN	FUNCTION	VOLTAGE	7A	BATT	Battery Voltage	9A	RUN	Battery Voltage	14B	RUN	Battery Voltage	Yes No
PIN	FUNCTION	VOLTAGE												
7A	BATT	Battery Voltage												
9A	RUN	Battery Voltage												
14B	RUN	Battery Voltage												
TA8	CHECK FLEX CIRCUIT BOARD													
	<ul style="list-style-type: none"> Disconnect battery ground cable. Remove cluster as outlined. Inspect flexible circuit traces (traces are double thick) connected to Circuits 13B and 14B (ground and run circuits) Are traces OK? 	Yes No	REPLACE cluster. REPLACE Flexible circuit.											

PINPOINT TEST TB:
CLUSTER TOO DIM

TEST STEP		RESULT	ACTION TO TAKE
TB1	VERIFY CONDITION		
	<ul style="list-style-type: none"> Check to see if part of cluster is dim or all displays are dim. 	Part of cluster dim and part of cluster illumination OK All displays too dim	REPLACE cluster. GO to TB2.
TB2	ENSURE HEADLAMPS ARE OFF		
	<ul style="list-style-type: none"> Cluster will dim from 65 percent to almost off with headlamps on. Are headlamps off? 	No Yes	TURN headlamps OFF. GO to TB3.