

DIAGNOSIS AND TESTING

Parking Test

Tools Required:

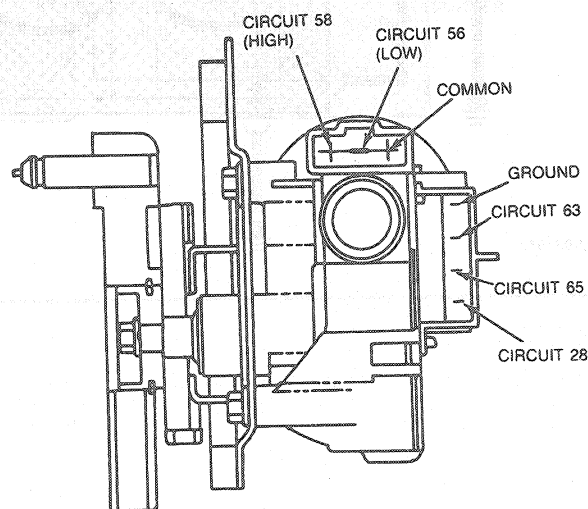
- Rotunda Digital Volt Ohmmeter 014-00407

The ignition switch must be in RUN for all tests. Verify proper operation of wiper system in LO. With system operating in LO, turn wiper system switch to OFF when wiper blades are in vertical (straight-up) position. Wipers should complete cycle and depress park (to bottom of windshield). If the wiper blades do not park, refer to appropriate condition of system below and test and service as indicated.

- Motor stops when wiper switch is turned to OFF. (Does not complete cycle).
 1. Remove motor park switch connector and check for battery voltage, using Rotunda Digital Volt-Ohmmeter 014-00407 or equivalent on Circuit 65 (DG). If battery voltage is not present, service circuit as required. If voltage is present, go to Step 2.
 2. Check motor ground wiring at switch connector.
 3. With both wiper motor connectors disconnected, use an ohmmeter, such as Rotunda Digital Volt-Ohmmeter 014-00407, or equivalent, to verify continuity (less than one ohm) between Circuits 28 (BK/PK) and 58 (W) in the wiring harness. If continuity is not present, trace and service as required. If continuity is OK, leave connectors disconnected and go to Step 4.
 4. Check for continuity to ground terminal on gear cover at circuit terminal 28 (BK/PK) on wiper motor. If open, replace motor. If ground is present, leave connectors disconnected and go to Step 5.
 5. Verify continuity (less than one ohm resistance) between Circuits 61 (Y/R) and 63 (R) in the wiring harness. If continuity is not present, trace and service as required. If lack of continuity is traced to wiper control module (WCM), check wiper switch for continuity. Refer to Section 11-05. Replace switch if continuity is not present. If continuity is present in switch, and lack of continuity has been traced to WCM, replace module. If continuity between Circuits 61 (Y/R) and 63 (R) is OK, leave connectors disconnected and go to Step 6.
 6. Check for continuity between circuit 63 (R) and 65 (DG) on wiper motor. If open, replace motor.
 - Wiper blades go into depressed park (below windshield), but wiper motor keeps running. Replace motor.

- Wiper blades stall or jam (motor starts running in reverse direction) while going from park to depressed park (below windshield).

7. Check linkage and service as required. If OK, go to Step 8.
8. Check wiper motor arm and windlatch assembly. If bent or cracked replace motor.
 - Wiper blades complete cycle, but continue to wipe for part of another cycle and park on windshield, or
 - Wiper blades run continuously in OFF or INTERVAL, or
 - Wiper blades run to bottom of windshield and stop, but will not depress park below windshield.
9. Perform wiper switch continuity test. Refer to Section 11-05. If continuity test fails, replace motor. If continuity test is OK on standard wiper system, replace motor. If continuity test is OK on interval wiper system, go to Step 10.
10. Check wash Circuit 941 (BK/W) for no voltage. If any voltage is present, service as required. If no voltage is present, go to Step 11.
11. Disconnect connectors at wiper motor and check for continuity between Circuits 61 (Y/R) and 63 (R) going to interval governor. If open, replace governor. If continuity is present, replace motor.



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