Pinpoint Tests -- Air Bag System

LOW BATTERY VOLTAGE FAULT CODE 12

12-1 VERIFY CONDITION

- Key ON.
- Count the fault code (if any).
- **Is code 12 flashing?**

  Yes
  GO to **«12-2»**.

  No
  READ the normal operation description for this fault code. EXAMINE the fault code schematic and look for areas where intermittent problems would occur (connectors, splices, crimps, etc.).
  Note: Do not proceed with pinpoint tests until the code is flashing! Failure to do so will result in needless replacement of the air bag diagnostic monitor and repeat repairs.

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12-2 CHECK FOR BATTERY VOLTAGE

- Deactivate the air bag system.
- Disconnect the air bag diagnostic monitor connectors.
- Measure the voltage between pin 13 (+) and pin 3 (-) at the gray air bag diagnostic monitor connector.
- **Is the voltage at pin 13 equal to battery voltage?**

  Yes
  REPLACE the air bag diagnostic monitor. VERIFY the system. REACTIVATE the system.

  No
  GO to **«12-3»**.

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LOW BATTERY VOLTAGE FAULT CODE 12

12-3 CHECK FUSE

- Check the 30A F/P INJ fuse located in the main fuse junction panel.
- **Is the fuse blown?**

  Yes
  GO to **«12-4»**.

  No
  LOCATE and SERVICE the open in circuit 9C ("W/GN") between the fuse and pin 13 on the gray air bag diagnostic monitor connector. VERIFY the system. REACTIVATE the system.

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LOW BATTERY VOLTAGE FAULT CODE 12

12-4 CHECK FOR SHORT TO GROUND IN CIRCUIT 9C

- Replace the blown fuse.
- **Does the fuse blow again?**

  Yes
  LOCATE and SERVICE the short to ground in circuit 9C ("W/GN") between the fuse and pin 13 on the gray air bag diagnostic monitor connector. VERIFY the system. REACTIVATE the system.

  No
  GO to **«12-5»**.

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LOW BATTERY VOLTAGE FAULT CODE 12

12-5 CHECK FOR SHORT TO GROUND IN SYSTEM

- Connect the air bag diagnostic monitor connectors.
- **Does the fuse blow?**

  Yes
  GO to **«12-6»**.

  No
  The short to ground is intermittent. CHECK all circuits between the fuse and the gray air bag diagnostic monitor connector pin 13 for pinched wires, etc. CHECK circuits 951 ("GN/Y") and 943 ("GN/BK") for intermittent shorts. LOCATE and SERVICE the intermittent short. VERIFY the system. REACTIVATE the system.

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12-6 CHECK FOR SHORT TO GROUND IN CIRCUIT 951

- Disconnect the air bag diagnostic monitor connectors.
- Disconnect the center cowl safing rear air bag sensor connectors.
- Measure the resistance of circuit 951 ("GN/Y") between the gray air bag diagnostic monitor connector pin 15 and ground.
- **Is the resistance greater than 10,000 ohms?**

  Yes
  GO to **«12-7»**.

  No
  LOCATE and SERVICE the short to ground in circuit 951 ("GN/Y"). REPLACE the blown fuse. RECONNECT the system. VERIFY the system. REACTIVATE the system.

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LOW BATTERY VOLTAGE FAULT CODE 12

12-7 CHECK FOR SHORT TO GROUND IN CIRCUIT 943

- Disconnect the air bag diagnostic monitor connectors.
- Disconnect the center cowl safing rear air bag sensor connectors.
- Measure the resistance of circuit 943 ("GN/BK") between the black air bag diagnostic monitor connector pin 23 and ground.
- **Is the resistance greater than 10,000 ohms?**

  Yes
  REPLACE the center cowl safing rear air bag sensor and bracket. REPLACE the blown fuse. RECONNECT the system. VERIFY the system. REACTIVATE the system.

  No
  LOCATE and SERVICE the short to ground in circuit 943 ("GN/BK"). REPLACE the blown fuse. REACTIVATE the system. CHECK the air bag warning indicator for codes.