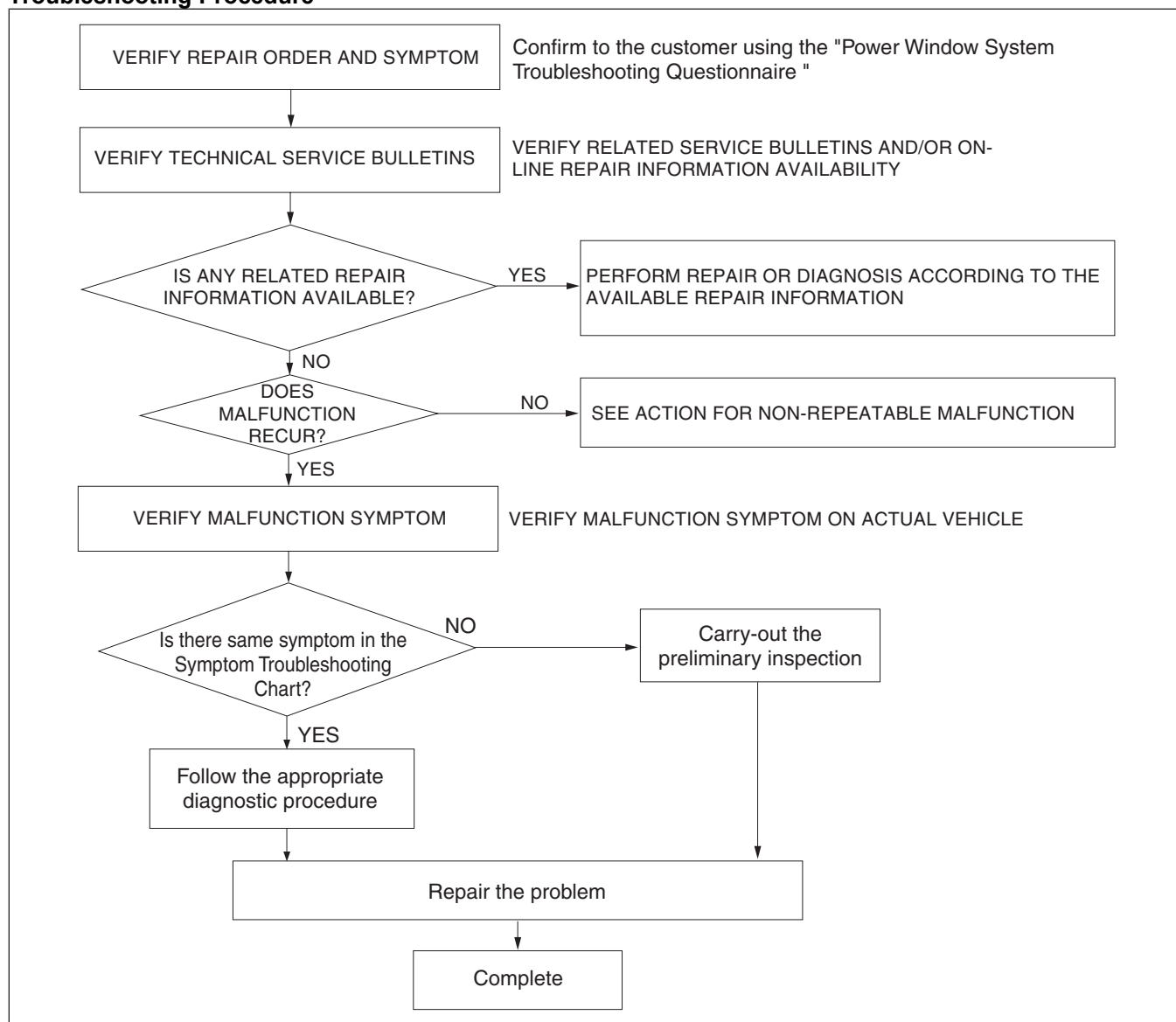


FOREWORD [POWER WINDOW SYSTEMS (WITH AUTO-OPEN/CLOSE FUNCTION FOR DRIVER-SIDE)]

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- Always perform basic power window system inspection before troubleshooting.

Troubleshooting Procedure



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- Slightly shake the wiring harness and connectors while performing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions.

Caution

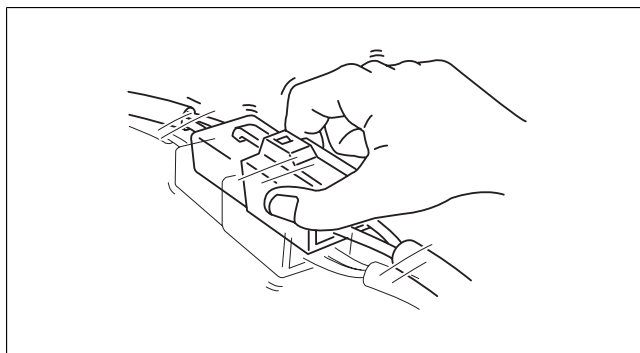
- If any of the following conditions continues indefinitely, the power window motor will heat up causing the protection circuit (integrated in power window motor) to operate. If this occurs, the operation of the power window motor protection circuit temporarily disables the power windows.
 - Continuous up and down operation of the power window.
 - Continuously pulling up the power window switch while the window glass is fully closed.
 - Continuously pressing the power window switch while the window glass fully opened.
- If the power window motor has a temporary malfunction and the power window main switch is operated, the power window system transfers to malfunction mode by the power window control module.
- While the power window system is in malfunction mode, the power windows cannot be operated using the auto open/close function.
- The power window system reverts to normal operation after performing the Power Window Initialization Procedure.

Note

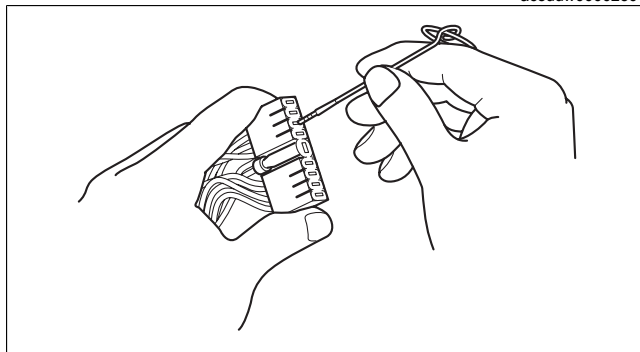
- If the following operations have been performed, initial setting is reset, and auto up/down operation is disabled. Therefore, performing the initial setting is necessary.
 - Negative battery cable disconnected
 - Power window main switch connector disconnected
 - Power window system power supply fuse removed

Action for non-repeatable malfunction

- If the malfunction does not recur, verify the malfunction cause by performing the following actions:
 - Based on the repair order form, attempt to drive the vehicle or perform tests to replicate the malfunction, record the data (such as power window main switch and power window motor circuit voltage) at that time, and detect the malfunction cause.
 - Shake the wiring harness or connector of the electrical component which is suspected to be the cause of the malfunction, and inspect for malfunction.
- Inspect the female terminals on the connector of the electric component which is suspected to be the cause of the malfunction for poor connection.



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Power Window System Initial Setting

1. Switch the ignition ON (engine off or on).
2. Press the driver-side power window main switch and fully open the driver-side front door glass.
3. Pull up the driver-side power window main switch to the manual-up position to fully close the driver-side front door glass, and keep holding the switch up at the position for **approx. 2 s**.