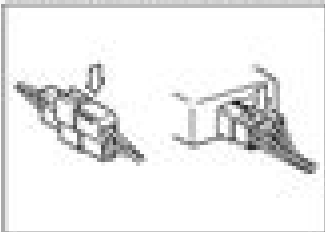


3 TROUBLESHOOTING

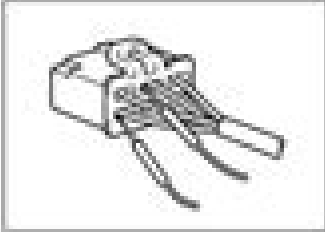
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3.1 BEFORE TROUBLESHOOTING

3.1.1 CONNECTOR HANDLING



1. Disconnect the battery plug before connecting or disconnecting each connector or terminal.
2. When disconnecting a connector, do not pull it at the harness but hold the connector itself and pull it after unlocking it.
To connect, push the connector fully until it is locked in position.



3. Bring a tester probe into contact with a connector terminal from the rear side of the coupler (harness side).
4. If insertion from the rear side is impossible, as in the case of a waterproof connector, bring the tester probe carefully into contact with the terminal so as not to cause deformation of the connector terminal.
5. Do not touch connector terminals directly with your hand.
6. When bringing tester probes into contact with two terminals, prevent two tester probes from coming into contact with each other.

3.1.2 WIRE HARNESS AND CONNECTOR INSPECTION PROCEDURE

When any trouble occurs, first inspect the connectors and wire harness of the related circuit according to the following procedure:

3

Continuity check

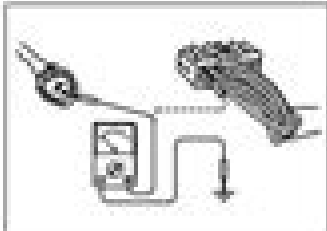


1. Disconnect the connectors at both ends of the corresponding harness.
2. Measure the resistance between corresponding terminals of the connectors at both ends.
Standard: 15 Ω or less

NOTICE

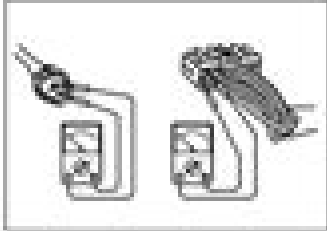
- Measure while lightly shaking the wire harness up and down and sideways.
- Open circuit at the wire harness occurs rarely partly through a vehicle wiring but mostly at connectors. Inspect especially the sensor connectors with sufficient care.

Short circuit check



1. Disconnect the connectors at both ends of the corresponding harness.
2. Measure the resistance between the corresponding connector terminal and N1. Always inspect the connectors at both ends.
Standard: 1 M Ω or above

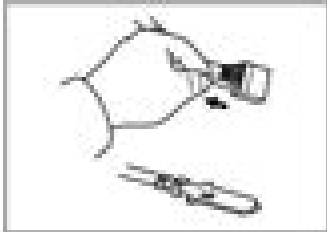
NOTICE : Measure while lightly shaking the wire harness up and down and sideways.



3. Measure the resistance between a terminal corresponding to the connector terminal and N1. Always inspect the connectors at both ends.
Standard: 1 M Ω or above

NOTICE : The wiring may short-circuit due to pinching by the body or defective clamping.

Visual and contact pressure checks



- Disconnect the connectors at both ends of the corresponding harness.
- Visually inspect that there is neither dust nor foreign matter trapped at connector terminals.
- Inspect that there is no loosening or damage at the locked portion. Also, lightly pull the wire harness from the connector to check that it does not come off.

Toyota Troubleshooting Guide

Mohammed Hamed Ahmed Soliman

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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you for the demands of modern vehicles and the rapidly evolving automotive landscape Simply put this book is designed to make complex transmission systems accessible understandable and usable helping you confidently tackle challenges that most resources leave unaddressed and serving as the perfect complement to the insights shared in Mastering CVT Transmissions Author Note My own experiences shaped the series tuning my personal vehicles since 1998 competing in formal Egyptian autocross races from 2001 to 2003 and running my YouTube channel CarTuningLovers where I share practical tips and tutorials with a global community of car enthusiasts These experiences combined with my academic background in mechanical and industrial engineering gave me both the hands on insight and technical expertise to craft guides that are practical accurate and actionable Very Easy Guide to Using Your Sewing Machine Gardiner,2014

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