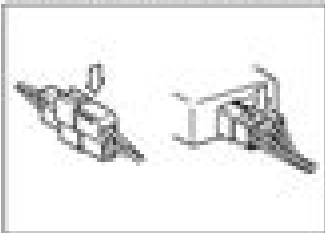


3 TROUBLESHOOTING

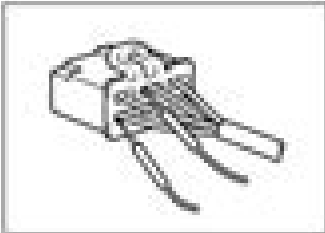
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3.1 BEFORE TROUBLESHOOTING

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

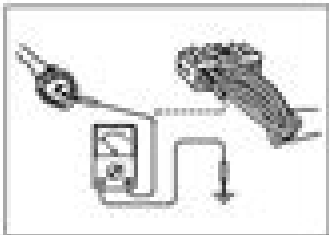


1. Disconnect the connectors at both ends of the corresponding harness.
2. Measure the resistance between corresponding terminals of the connectors at both ends.
Standard: 15 Ω or less

NOTICE

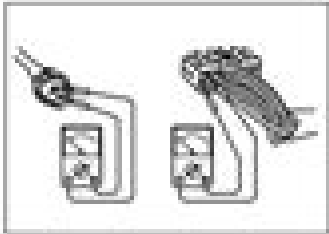
- Measure while lightly shaking the wire harness up and down and sideways.
- Open circuit at the wire harness occurs rarely partly through a vehicle wiring but mostly at connectors. Inspect especially the sensor connectors with sufficient care.

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

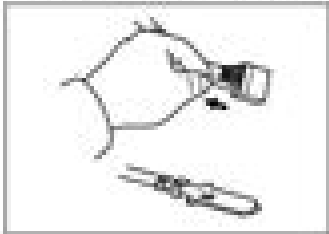
NOTICE : Measure while lightly shaking the wire harness up and down and sideways.



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

Ying Liu



Toyota Troubleshooting Guide:

Managing (Without) Problems Néstor Gavilán Ferrer, 2024-10-28 Lean is an innovative method that seeks to optimize the management and production processes of the company that implements it regardless of the sector to which the company belongs. In this way, fewer resources are used so that any process becomes more efficient. Its maxim is to reduce investment time and effort. The Lean method is a way of thinking that seeks to optimize the management processes of a company which helps organizations to innovate and remain competitive. Lean aims to continuously improve the processes of creating and supplying products and services in addition to developing and empowering people through problem solving and coaching to finally develop leaders and establish an effective management system that allows communication transparency and continuous learning. Managing Without Problems offers a complete model of Lean Transformation while covering all the aspects that can prevent it from coming to fruition. This leads to proposing six key practices to be applied in a successful Lean Transformation such as Hoshin Kanri, Visual Management, Leader Standard Work, A3, Coaching, Kata, and other key characteristics of Lean leadership. It also includes case studies to exemplify these processes and how they were carried out and look at Lean Transformation as a way to achieve a desired future condition by balancing the introduction of Lean tools and techniques with the cultural shift that comes with any transformation.

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- OBD based troubleshooting methods and failure prevention strategies.
- Tables, charts and appendices with essential specifications and capacities.

Why this book is different: Dr. Soliman not only studied CVTs academically but has rebuilt Nissan CVT units personally, applying industrial best practices such as predictive maintenance, infrared thermography, vibration analysis, oil condition monitoring and Lean principles. His international career in manufacturing, reliability engineering and automotive maintenance gives this book a unique blend of theory and practice. Also by the author, Dr. Soliman has written several bestselling books in maintenance and reliability including: Autonomous Car Maintenance, Industrial Applications of Infrared Thermography, Vibration Basics and Machine Reliability Simplified, The Complete FMEA Handbook, AI in Maintenance, Reliability Machinery Oil Analysis, Condition Monitoring, Lean Maintenance, Ultrasound Analysis for Condition Monitoring, Maintenance Strategy Optimization. Whether you are a driver, mechanic or engineer, this book equips you with the knowledge, tools and confidence to master CVTs from everyday care to advanced diagnostics and rebuilds.

Advanced Engine

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Autonomous Car Maintenance Mohammed Hamed Ahmed Soliman, The Essential Car Owner s Guide Practical Tips Smart Maintenance Cost Saving Insights By Mohammed Hamed Ahmed Soliman Owning a car is more than just driving it s about keeping it reliable safe and cost efficient for years to come In this comprehensive guide Professor Mohammed Hamed Ahmed Soliman shares practical advice every car owner should know from routine maintenance and smart upgrades to avoiding costly dealer myths like lifetime fluids Inside this book you ll discover The truth about CVT and automatic gearbox oil when to change it and how to avoid expensive failures Engine care basics spark plugs air filters oils and additives explained clearly Smart car care tips protecting tires body paint dashboard leather and trim Battery health hacks how to easily monitor your battery with simple tools ECU remapping and tuning chips what s safe what s risky Performance insights aftermarket filters friction modifiers and spark plug types what really works what s just hype Cost comparisons rebuild vs replace for critical components Easy to follow checklists and appendices for everyday maintenance and safe tuning Written in a clear friendly style this book empowers drivers to make better maintenance decisions save money and extend their car s life while also exploring safe tuning strategies for those who want extra performance without sacrificing reliability Whether you re a new car owner a tuning enthusiast or an experienced technician you ll gain the confidence to care for your vehicle the right way Take control of your car s future today drive smarter spend less and enjoy peace of mind

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the Egyptian Autocross Championship in 2001 2002 and 2003 gaining hands on motorsport and tuning experience He also runs the popular YouTube channel CarTuningLovers where he shares insights on performance tuning and automotive engineering

Jidoka in the Digital Age Mohammed Hamed Ahmed Soliman, 2025-09-17 Jidoka Toyota's principle of automation with a human touch is one of the two pillars of the Toyota Production System While Just in Time has been widely adopted Jidoka has often remained misunderstood underutilized or oversimplified This book brings Jidoka to life for today's world of Industry 4.0 smart factories and digital transformation In this expanded and updated second edition Mohammed Hamed Ahmed Soliman revisits his original 2020 work and integrates the latest advances that are reshaping quality management artificial intelligence machine vision predictive maintenance and digital twins The result is a practical modern guide to building defect free processes that withstand the challenges of complexity disruption and global competition What you'll learn in this edition The two concepts of Jidoka separating man from machine and building quality into the process How Toyota balances productivity and quality using andon systems buffers and culture Modern applications of Jidoka with AI IoT and Industry 4.0 Case studies from healthcare logistics services and digital industries How to apply tools like FMEA root cause analysis and A3 problem solving in today's digital environment Lessons from Toyota's recalls and the rising cost of quality in the EV and software driven era Why this book Practical Clear frameworks checklists and tools you can apply immediately Modern Updated for 2025 realities AI smart factories and global supply chains Universal Examples across industries from manufacturing to healthcare to software Whether you are a Lean practitioner engineer quality professional or business leader this book will help you understand Jidoka in depth and apply it to create resilient defect free systems in the digital age About the Author Mohammed Hamed Ahmed Soliman is a professor consultant and author of over a dozen books on Lean operational excellence and industrial systems His works including Lean Maintenance Toyota's Advanced GD Method and Heijunka The Leveling Art of the Japanese Automaker are used by engineers and leaders worldwide [Motor Trend](#), 1985

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The Publishers Weekly, 1975

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