



Domestic Automotive Transmission Troubleshooter and Reference (Automotive Transmission Series Book 1)

Mandy Concepcion

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The beginnings of this book came about after the development of the "Transmission Troubleshooter" software package, which eventually became part of the "TransDoctor" PC based diagnostic equipment. Both of these related products, although meant for the professional side of the industry, left behind a huge arsenal of data that matched perfectly with the needs of the average consumer, DIY and mechanic aficionado. We assumed that his information, so far as the general public was concerned, did not necessitated to be part of a broad software package and therefore could be offered at a lower cost to the people.

This book covers automotive Transmission diagnostics and electronic repair for domestic vehicles. The information was amassed during years of field work and research in the automotive industry. For this reason, the information is presented in a direct, hands on approach and skips the basic operation of automotive transmissions. If you're trying to discern the basics of automotive automatic transmissions, then there are other works that could help you do that. This book is meant to be used during real-life repair situations and it exposes you to exactly what you need to know to solve or get an in-depth knowledge of a specific problem. Various concepts are covered such as Transmission DTCs or trouble codes, Transmission ID, shift solenoid locations, component locations, electrical and wiring diagrams and finally measurement values for voltage and resistance. We hope you enjoy reading this work to gain knowledge and solve specific problem. So, without further ado, enjoy...

Table of Contents

OBD-2

Generic OBD-2 Transmission DTC (code) Listing

General Motors

(the following transmissions are covered)

4L30E, 4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E

- * General Motors Transmission Application
- * GM Transmissions Component Operation
- * GM Transmission Oil Pan (ID) Identification
- * GM Shift Solenoids and Electrical Component Testing, Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches
- * GM Component Location, Valve Body and Check-Ball Positioning, (component location/diagram, valve body photo, check-ball diagram)
- * General Motors Shifting Truth-Tables, (shifting truth tables or shifting combination)

General Motors Wiring Diagrams

Dodge/Chrysler/Plymouth

(the following Dodge transmissions are covered:)

A45RFE, A500/A518, A604, A606, A618, F4A33-1, KM175, W4A33-1

- * Dodge/Chrysler/Plymouth Transmission Application
- * Dodge/Chrysler/Plymouth Transmissions Component Operation
- * Dodge/Chrysler/Plymouth Transmission Oil Pan (ID) Identification
- * Dodge/Chrysler/Plymouth Shift Solenoids and Electrical Component Testing: Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches
- * Dodge/Chrysler/Plymouth Component Location, Valve Body and Check-Ball Positioning
- * Dodge/Chrysler/Plymouth Shifting Truth-Tables
- * Dodge/Chrysler/Plymouth Wiring Diagrams

Ford/Lincoln/Mercury

(the following transmissions are covered)

4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100

- * Ford/Lincoln/Mercury Transmission Application
- * Ford/Lincoln/Mercury Transmissions Component Operation
- * Ford/Lincoln/Mercury Transmission Oil Pan (ID) Identification
- * Ford/Lincoln/Mercury Shift Solenoids and Electrical Component Testing: Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches
- * Ford/Lincoln/Mercury Component Location, Valve Body and Check-Ball Positioning
- * Ford/Lincoln/Mercury Shifting Truth-Tables
- * Ford/Lincoln/Mercury Wiring Diagrams

About the author:

Mandy Concepcion has worked in the automotive field for over 21 years. He holds an Associates Degree in Applied Electronics Engineering as well as an ASE L1 certification. For the past 12 years he has been exclusively involved in the diagnosis of all the different electronic systems found in today's vehicles.

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Pat Swartz:

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Rose Heck:

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