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# Toyota Electronic Transmission Checks Diagnosis Checks And

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Chilton's Automatic Transmission/transaxle  
Diagnosis and Repair

Toyota Corolla 1970-1987

How To Use Automotive Diagnostic Scanners

Automotive Computer Controlled Systems

Electronic Transmission Controls

Fundamentals of Automotive Technology

Popular Science

Chilton's Repair and Tune-up Guide, Toyota,  
1970-77

How To Diagnose and Repair Automotive  
Electrical Systems

Vehicle Electronic Systems and Fault Diagnosis

Toyota Celica Owners Workshop Manuals

Smog Check Diagnostic and Repair Manual

Chilton's Easy Car Care Owners' Manual

Automotive Automatic Transmission and  
Transaxles

(Dodge) Domestic Automotive Transmission  
Troubleshooter and Reference

(Ford) Domestic Automotive Transmission  
Troubleshooter and Reference

OBD-II & Electronic Engine Management Systems  
Toyota Prius  
Advanced Automotive Fault Diagnosis  
Transmission  
Troubleshooting Electronically Controlled  
Automatic Transmission  
Check the Basics  
The big Acura Check Engine Book  
Popular Mechanics  
(GM) Domestic Automotive Transmission  
Troubleshooter and Reference  
Toyota Corona, 1970-1980 Shop Manual  
Vehicle Electronic Systems and Fault Diagnosis  
Acura/Honda Automotive Transmission  
Troubleshooter and Reference  
Chilton's Toyota Trucks, 1970-88 Repair Manual  
Toyota/Lexus/Scion Automotive Transmission  
Troubleshooter and Reference  
Chilton's Repair & Tune-up Guide, Toyota  
Celica/Supra 1971-83, All Models  
Automotive Chassis Electronics Systems  
Automatic Transmissions & Transaxles  
Automatic Transmissions and Transaxles  
Advanced Automotive Fault Diagnosis  
Automotive Computers and Digital  
Instrumentation  
Nissan/Infinity Automotive Transmission  
Troubleshooter and Reference  
Chilton Book Company Repair Manual  
Design Practices  
Fundamentals of Automotive Technology

*Toyota  
Electronic  
Transmission  
Checks  
Diagnosis  
Checks And*

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## **TRISTIAN ALEENA**

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### Chilton's Automatic Transmission/transaxle Diagnosis and Repair

Routledge  
Popular Mechanics  
inspires, instructs and  
influences readers to  
help them master the  
modern world. Whether  
it's practical DIY home-  
improvement tips,  
gadgets and digital  
technology,  
information on the  
newest cars or the  
latest breakthroughs in  
science -- PM is the  
ultimate guide to our  
high-tech lifestyle.

*Toyota Corolla  
1970-1987 Delmar Pub  
(GM) Domestic  
Automotive  
Transmission  
Troubleshooter and  
Reference A reference*

and pictorial guide for  
automotive  
transmissions  
(Including General  
Motors Vehicles) By  
MANDY CONCEPCION  
The beginnings of this  
book (GM) 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 public. This book covers automotive Transmission diagnostics and electronic repair for the GM side of 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 problems. So, without further ado, enjoy... Table of Contents  
 Generic OBD-2 Transmission DTC (code) Listing  
 General Motors Transmission Application 4L30E, 4L60E, 4L80E, 5L50E,

4T40E, 4T60E, 4T80E -  
(Transmission  
application) GM  
Transmissions  
Component Operation  
4L30E, 4L60E, 4L80E,  
5L50E, 4T40E, 4T60E,  
4T80E - (component  
operation) GM  
Transmission Oil Pan  
(ID) Identification  
4L30E, 4L60E, 4L80E,  
5L50E, 4T40E, 4T60E,  
4T80E - (ID or oil pan  
identification) GM Shift  
Solenoids and  
Electrical Component  
Testing 4L30E - 4L60E -  
4L80E - 5L50E - 4T40E  
- 4T60E - 4T80E - Shift  
Solenoids, TCC  
Solenoid, Pressure  
Control Solenoid (EPC),  
TPS, TCM Test,  
Pressure Switches GM  
Component Location,  
Valve Body and Check-  
Ball Positioning 4L30E -  
4L60E - 4L80E - 5L50E  
- 4T40E - 4T60E -  
4T80E - (component  
location/diagram, valve

body photo, check-ball  
diagram) General  
Motors Shifting Truth-  
Tables 4L30E, 4L60E,  
4L80E, 5L50E, 4T40E,  
4T60E, 4T80E -  
(shifting truth tables or  
shifting combination)  
General Motors Wiring  
Diagrams 4L30E,  
4L60E, 4L80E, 5L50E,  
4T40E, 4T60E, 4T80E -  
(wiring diagrams)

### **How To Use Automotive Diagnostic Scanners**

Goodheart-Wilcox  
Publisher  
This book gives a  
sufficient grounding in  
mechanics for  
engineers to tackle a  
significant range of  
problems encountered  
in the design and  
specification of simple  
structures and  
machines. It also  
provides an excellent  
background for  
students wishing to  
progress to more

advanced studies in three-dimensional mechanics.

### **Automotive**

#### **Computer Controlled Systems**

Chilton Book Company

Covers the design, construction, operation, diagnosis, service, and repair of automatic transmissions and transaxles.

#### *Electronic Transmission*

*Controls* Haynes

Publishing

Advanced Automotive Fault Diagnosis covers the fundamentals of vehicle systems and components and explains the latest diagnostic techniques employed in effective vehicle maintenance and repair.

#### Fundamentals of

#### Automotive Technology

Lulu.com

(Ford) Domestic

Automotive

Transmission

Troubleshooter and Reference A reference and pictorial guide for automotive transmissions

(Including Ford/Lincoln/Mercury vehicles) By MANDY CONCEPCION The beginnings of this book (Ford Version) 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

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and mechanic

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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 Ford 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

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Ford/Lincoln/Mercury Transmission Application 4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100 - Transmission application	identification Ford/Lincoln/Mercury Shift Solenoids and Electrical Component Testing 4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100 - Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches
Ford/Lincoln/Mercury Transmissions Component Operation 4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100 - component operation	Ford/Lincoln/Mercury Component Location, Valve Body and Check- Ball Positioning 4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100 - component location/diagram, valve-body photo, check-ball diagram
Ford/Lincoln/Mercury Transmission Oil Pan (ID) Identification 4EAT-F, 4F27E, 4R44E, 4R55E, 5R55E/5R110W, 5R55N-S-W, AODE/4R70W, AX4N, AX4S, CD4E, E4OD/4R100 - Oil pan	Ford/Lincoln/Mercury Shifting Truth-Tables



4EAT-F, 4F27E, 4R44E,  
4R55E,  
5R55E/5R110W,  
5R55N-S-W,  
AODE/4R70W, AX4N,  
AX4S, CD4E,  
E4OD/4R100 - Shifting  
truth table or shift  
combination  
Ford/Lincoln/Mercury  
Wiring Diagrams 4EAT-  
F, 4F27E, 4R44E,  
4R55E,  
5R55E/5R110W,  
5R55N-S-W,  
AODE/4R70W, AX4N,  
AX4S, CD4E,  
E4OD/4R100 - Wiring  
diagrams  
Popular Science  
Routledge  
Electronic, Automatic  
Transmission (EAT) has  
drastically evolved  
over the past two  
decades due to  
increase in global  
technological  
advancement and the  
need to have highly  
efficient automobile  
with improved fuel

economy. Though  
modern EAT could be  
easily diagnosed for  
shifting problems with  
a mere scan tool and  
an oscilloscope they  
are not necessarily  
easy to fix. Planetary  
gear controls,  
electronics and  
hydraulics of  
transmission has  
significantly changed,  
in the past years, it  
was the Modulator,  
Throttle valve,  
Accumulator and  
Governors that were  
used to control &  
regulate the hydraulic  
pressure and therefore  
the gear shifting of old  
cars. Everything is now  
computer controlled by  
an onboard computer  
known as Power  
Control Module (PCM)  
or Transmission  
Control Module (TCM)  
depending on the  
make & model of the  
car. Electronically

controlled Shift solenoids, Vehicle Speed Sensors, TPS sensor, MAP sensor & many more other sensors have replaced the Modulator, Throttle Valve and Governors making modern cars more efficient but however very vulnerable to any form of mechanical & electrical damages caused by rapid vibrations, thermal and electrical shorts. These Solenoids have very low resistances, in most cases not more than 10 ohms and are Duty Cycled by the PCM / TCM for that matter.

Troubleshooting transmission problems is now divided into 3-set of problems, electrical, hydraulic and mechanical. This book will help you to distinguish those three

problems. A small problem of gear 3-4 Shift Solenoid will cause a car to fail to have an Uphift & Downshift in those gears, however a simple diagnosis will eradicate that problem, this book will guide you, step by step. Most Uphift & Downshift problems however occur as a result of underperforming charging systems and poor batteries; this book will educate you new quick & easy ways of troubleshooting charging system without use of expensive equipment. This book addresses various input & output sensors to the PCM / ECM that controls the transmission system. The book addresses the various solenoids associated with the

transmission system such as the Shift Solenoids, Torque Converter Clutch Solenoid (TCC) and many more. The book will address the electronic / electrical theory behind the transmission systems paying close attention to TCM architecture. Diagnostic Trouble Codes (DTCs) common in most American cars will be addressed in this book. More importantly this book will address Harsh Shifts problems due to faulty pressure solenoid. Understanding this book will help anyone to understand the principle of operation behind every automatic transmission system and diagnostics procedures. This book is a must for everyone to have it.

Chilton's Repair and Tune-up Guide, Toyota, 1970-77 Jones & Bartlett Learning From hand-held, dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners, auto enthusiasts today have a variety of methods available to make use of on-board diagnostic systems. And not only can they be used to diagnose operational faults, they can be used as low-budget data acquisition systems and dynamometers, so you can maximize your vehicle's performance. Beginning with why scanners are needed to work effectively on modern cars, this book teaches you how to choose the right scanner for your application, how to use

the tool, and what each code means. "How To Use Automotive Diagnostic Scanners" is illustrated with photos and diagrams to help you understand OBD-I and OBD-II systems (including CAN) and the scanners that read the information they record. Also included is a comprehensive list of codes and what they mean. From catalytic converters and O2 sensors to emissions and automotive detective work, this is the complete reference for keeping your vehicle EPA-compliant and on the road!

*How To Diagnose and Repair Automotive Electrical Systems*

Prentice Hall

Toyota/Lexus/Scion

Automotive

Transmission

Troubleshooter and

Reference A reference

and pictorial guide for automotive transmissions

(Including all major Toyota, Lexus and Scion Model

Transmissions) By MANDY CONCEPCION

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

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(DTCs) * Transmission Application - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) *	A340E/A341E, A343E, A540E/A541E/5L40E) * Component Location, Valve Body and Check-Ball Positioning - (component location/diagram, valve body photo, check-ball diagram) -
Transmissions Component Operation - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) *	(A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) *
Transmission Oil Pan (ID) Identification - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) *	Shifting Truth-Tables (shifting truth tables or shifting combination) - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) *
Shift Solenoids and Electrical Component Testing - Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E,	Wiring Diagrams - (A140E/A141E/A142E, A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E) Lexus/Toyota/Scion Transmissions Covered: (A140E/A141E/A142E,

A240E/A241E/A242E, A243E/A244E/A245E, A340E/A341E, A343E, A540E/A541E/5L40E)  
*Vehicle Electronic Systems and Fault Diagnosis* Motorbooks  
The evolution of the automotive transmission has changed rapidly in the last decade, partly due to the advantages of highly sophisticated electronic controls. This evolution has resulted in modern automatic transmissions that offer more control, stability, and convenience to the driver. Electronic Transmission Controls contains 68 technical papers from SAE and other international organizations written since 1995 on this rapidly growing area of automotive electronics. This book breaks down

the topic into two sections. The section on Stepped Transmissions covers recent developments in regular and 4-wheel drive transmissions from major auto manufacturers including DaimlerChrysler, General Motors, Toyota, Honda, and Ford. Technology covered in this section includes: smooth shift control; automatic transmission efficiency; mechatronic systems; fuel saving technologies; shift control using information from vehicle navigation systems; and fuzzy logic control. The section on Continuously Variable Transmissions presents papers that demonstrate that CVTs offer better efficiency

than conventional transmissions.

Technologies covered in this section include: powertrain control; fuel consumption improvement; development of a 2-way clutch system; internal combustion engines with CVTs in passenger cars; control and shift strategies; and CVT application to hybrid powertrains. The book concludes with a chapter on the future of electronic transmissions in automobiles.

*Toyota Celica Owners Workshop Manuals*  
Routledge

Covers all models of Pick-Up, Land Cruiser and 4Runner, 2 and 4 wheel drive, gasoline and diesel engines.

**Smog Check Diagnostic and Repair Manual**

Haynes Manuals N.

America, Incorporated  
Nissan/Infinity

Automotive

Transmission

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Reference A reference and pictorial guide for

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By MANDY

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average consumer, DIY and mechanic aficionado. We assumed that his information, so far as the general public was concerned, did not necessitate to be part of a broad software package and therefore could be offered at a lower cost to the people. This book covers Infinity/Nissan automotive transmission diagnostics and electronic repair for these 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

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enjoy... Table of Contents OBD-2 Generic OBD-2 Transmission Infinity/Nissan Specific codes (DTCs) Infinity/Nissan Transmissions Covered: (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Transmission Application (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Transmissions Component Operation (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Transmission Oil Pan (ID) Identification (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Shift Solenoids and Electrical Component Testing - Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Component Location, Valve Body and Check-Ball Positioning - (component location/diagram, valve body photo, check-ball diagram) (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Shifting Truth-Tables (shifting truth tables or shifting combination) (RE4F03A, RE4F04A, RE4R01A, RE4R03A, RL4F03A) Wiring Diagrams <i>Chilton's Easy Car Care Owners' Manual</i> SAE International This manual takes the mystery out of Second-Generation On-Board Diagnostic Systems allowing you to understand your vehicles OBD-II sytem,
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plus what to do when the "Check Engine" light comes on, from reading the code to diagnosing and fixing the problem. Includes a comprehensive list of computer codes. Computer-controlled car repair made easy! For all car and light truck models manufactured since 1996. Understand your vehicle's On-Board Diagnostic system How to deal with that "Check Engine" light-- from reading the code to diagnosing and fixing the problem Comprehensive computer codes list Diagnostic tools: Powertrain management fundamentals OBD-II "monitors" explained Generic trouble codes that cover all models! Manufacturer-specific trouble codes for GM,

Ford, Chrysler, Toyota/Lexus and Honda/Acura vehicles Let your car's computer help you find the problem! Component replacement procedures Glossary and acronym list Fully illustrated with over 250 photographs and drawings *Automotive Automatic Transmission and Transaxles* Goodheart-Wilcox Publisher Check the basics helps you solve all of these problems! Checking the engine oil level Checking automatic transmission fluid level Checking the brake fluid level Checking power steering fluid level Checking coolant level Car will not start, there is no power When you turn the key to start the car, there is a click sound but

<p>does not start When you turn the key to start the car, the engine makes a chattering noise, but doesn't start When turn key to start, engine turns slowly but doesn't start Engine turns over but does not start Car is hard to start when cold Car has no power on acceleration Engine cranks but does not start, fuel pump suspected Car shuts off when raining Engine runs rough and loses power Alternator or battery light is on Battery is dead Engine starts and shuts off right away Car will not get out of park Transmission is banging into gear When driving car engine is racing but the car is moving slow Engine knocks or is loud Car pulls to right</p>	<p>or left while driving Car vibrates or shakes while driving Steering wheel is hard to turn Scraping noise when brakes are applied Brake light stays on Brake pedal is soft and or goes to the floor Gas pedal is sticking Headlight inoperable One headlight is out High beam does not work Running lights inoperable License plate light inoperable Turn signal lights inoperable Turn signal lights flashing fast Hazard lights inoperable Horn inoperable Stop light inoperable No dash lights No interior lights Interior lights stay on Cigarette lighter inoperable Radio doesn't work Windshield wipers inoperable Windshield washer inoperable Power windows don't</p>
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work; window doesn't go up or down Power seats don't work Outside power mirrors don't work Rear defogger don't work No heat; doesn't blow air out of vents No heat; blows cold air No A/C; blows warm air A/C not cold enough Cruise control inoperable Car is overheating Car is smoking in front Burning oil odor Heavy white smoke coming out of tail pipe Burning antifreeze odor Blue smoke coming out of tail pipe Loud squeak noise from engine Squeak noise when headlights are on Belt squeaks when turning the wheel Whining noise from engine This book is intended for basic inspection and repairs for people with no automotive experience. It will work better accompanied by

the driver's manual. Every automotive technician first checks the basics before resorting to skillful diagnostics. This book may help you figure out or have an idea of what is your car's problem before taking it to a repair shop. In conclusion, if this book helps you fix a problem once, it has paid for itself.

### **(Dodge) Domestic Automotive Transmission Troubleshooter and Reference**

CreateSpace Automotive technicians must learn how to safely and effectively maintain, diagnose, and repair every system on the automobile. Fundamentals of Automotive Technology provides students with the critical knowledge

and essential skills to master these tasks successfully. With a focus on clarity and accuracy, the Second Edition offers students and instructors a single source of unparalleled coverage for every task from MLR through MAST. Fully updated and reorganized, the revised format enhances student comprehension and encourages critical thinking.

(Ford) Domestic Automotive Transmission Troubleshooter and Reference Chilton Book Company  
Automatic Transmissions and Transaxles covers the design, construction, operation, diagnosis, service, and repair of major automatic transmission and transaxle components.

Both hydraulic and electronic transmission controls are detailed, with extensive coverage of electronic control systems. The use of the latest diagnostic equipment to troubleshoot electronic transmission and transaxle control systems is emphasized. This text is correlated to the Automatic Transmission and Transaxle section of the ASE Education Foundation Task List and is a valuable resource for those preparing for ASE Certification Test A2, Automatic Transmission/Transaxle .  
*OBD-II & Electronic Engine Management Systems* Routledge  
Acura/Honda Automotive Transmission

Troubleshooter and Reference A reference and pictorial guide for automotive transmissions (Including all major Acura and Honda Model Transmissions) By MANDY CONCEPCION 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

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Manufacturer Specific DTCs (codes)  
Transmission Application for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A)  
Transmissions Component Operation for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A)  
Transmission Oil Pan (ID) Identification for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA,



<p>BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A) Shift Solenoids and Electrical Component Testing - Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A) Component Location, Valve Body and Check- Ball Positioning - (component location/diagram, valve body photo, check-ball diagram) for</p>	<p>transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A) Shifting Truth-Tables (shifting truth tables or shifting combination) for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA, MDKA/BDKA, MGHA, MKYA, MP1A) Wiring Diagrams for transmissions: 4L30E, B7TA/B7YA, BAXA, BGRA, BMXA/SLXA, BYBA/BVGA, BZKA/MZKA, M5HA/M5DA, M6HA, M7WA/MGFA, MCVA/MRVA,</p>
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MDKA/BDKA, MGHA,  
MKYA, MP1A)

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