

# Challenger Manual Transmission For Sale

**How to Rebuild and Modify High-Performance Manual Transmissions** How To Rebuild and Modify Your Manual Transmission Service Manual: Transmission, 554/644, 744/844, 844S. Manual Gearbox Design Manual Transmissions **How to Rebuild and Modify Your Manual Transmission** *Automotive Power Transmission Systems Muncie 4-Speed Transmissions* **How to Build and Modify High-performance Manual Transmissions** **Direct Support and General Support Maintenance Manual Manual Transmission Clutch Systems** Transmission Repair Book Ford 1960 to 2007 Ford Automatic Transmission Overhaul **Today's Technician: Manual Transmissions and Transaxles Classroom Manual and Shop Manual** Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles **Development of A Virtual Automated Manual Transmission System** Automotive Technician Drive Train Manual Transmission **Today's Technician: Manual Transmissions & Transaxles Classroom Manual** *Advanced and Performance Driving* **Porsche 911 (996) VW GTI, Golf, Jetta, MK III & IV** Aston Martin Automotive Handbook Automotive Transmissions **Manual Transmissions and Drivetrains** *Today's Technician* **Land Rover 300 Tdi Diesel Engine Transmission Pipeline Calculations and Simulations Manual Design of a Two-speed Transmission for a Manual Wheelchair** *Automotive Engineering e-Mega Reference* **GM Automatic Overdrive Transmission Builder's and Swapper's Guide** Automotive Transmissions Lotus Federal Register Manual Transmissions & Transaxles *Today's Technician: Manual*

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*Transmissions and Transaxles Max Ellery's Transmission Repair Manual Holden's 1963-1988* **Minimizing of Automotive Transmission Rattle Noise by Means of Gear Oils Electronic Transmission Controls**

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Automotive Technician Drive Train Manual Transmission

May 17 2021

**Development of A Virtual Automated Manual**

**Transmission System** Jun 17

2021 This research presented as the development virtual model of Automated Manual Transmission (AMT). The model is designed with the consideration of low mass, low price and good quality in Solid Edge ST3. This AMT model is designed as three subsystems,

which are Dual Clutch, Direct Shift Gearbox, and Differential Gearbox. The AMT system is developed by using MSC ADAM View 2011 software. In which, the AMT model has developed the performance with using simulation. The input parameter applied to AMT model which are kinematic and mechanism. The output analysis carried out as speed increment in different gear speed ratio, shifting period, and wheel turning speed (Left and Right turn).

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Oct 22 2021

*Automotive Engineering e-*

*Mega Reference Apr 03 2020*

This one-stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field. An expansion the Automotive Engineering print edition, this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development.

Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling. \* A fully searchable Mega Reference Ebook, providing all the essential material needed by Automotive Engineers on a day-to-day basis. \*

Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. \* Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

## **Transmission Pipeline**

*challenger-manual-transmission-for-sale*

## **Calculations and**

## **Simulations Manual Jun 05**

2020 Transmission Pipeline

Calculations and Simulations

Manual is a valuable time- and money-saving tool to quickly

pinpoint the essential formulae, equations, and calculations

needed for transmission

pipeline routing and

construction decisions. The

manual's three-part treatment

starts with gas and petroleum

data tables, followed by self-contained chapters concerning

applications. Case studies at

the end of each chapter

provide practical experience

for problem solving. Topics in

this book include pressure and

temperature profile of natural

gas pipelines, how to size

pipelines for specified flow rate

and pressure limitations, and

calculating the locations and

HP of compressor stations and

pumping stations on long

distance pipelines. Case

studies are based on the

author's personal field

experiences Component to

system level coverage Save

time and money designing pipe

routes well Design and verify

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pipng systems before going to the field Increase design accuracy and systems effectiveness

**Land Rover 300 Tdi Diesel Engine** Jul 07 2020 Includes R380 manual gearbox and LT23T transfer gearbox

**Manual Transmissions and Drivetrains** Sep 08 2020

**Automotive Power Transmission Systems** Apr 27 2022

Provides technical details and developments for all automotive power transmission systems The transmission system of an automotive vehicle is the key to the dynamic performance, drivability and comfort, and fuel economy. Modern advanced transmission systems are the combination of mechanical, electrical and electronic subsystems. The development of transmission products requires the synergy of multi-disciplinary expertise in mechanical engineering, electrical engineering, and electronic and software engineering. Automotive Power Transmission Systems comprehensively covers

various types of power transmission systems of ground vehicles, including conventional automobiles driven by internal combustion engines, and electric and hybrid vehicles. The book covers the technical aspects of design, analysis and control for manual transmissions, automatic transmission, CVTs, dual clutch transmissions, electric drives, and hybrid power systems. It not only presents the technical details of key transmission components, but also covers the system integration for dynamic analysis and control. Key features: Covers conventional automobiles as well as electric and hybrid vehicles. Covers aspects of design, analysis and control. Includes the most recent developments in the field of automotive power transmission systems. The book is essential reading for researchers and practitioners in automotive, mechanical and electrical engineering.

**GM Automatic Overdrive Transmission Builder's and**

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**Swapper's Guide** Mar 03 2020  
Vehicle maintenance.

*Muncie 4-Speed Transmissions*  
Mar 27 2022 The Muncie 4-speeds, M20, M21, and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular. The Muncie was the top high-performance manual transmission GM offered in its muscle cars of the 60s and early 70s. It was installed in the Camaro, Chevelle, Buick GS, Pontiac GTO, Olds Cutlass, and many other classic cars. Many owners want to retain the original transmission in their classic cars to maintain its value. Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4-speeds that guides you through each crucial stage of the rebuild process. Comprehensive ID information is provided, so you can positively identify the cases, shafts, and related parts. It discusses available models, parts options, and gearbox cases. Most important, it shows how to completely disassemble

the gearbox, identify wear and damage, select the best parts, and complete the rebuild. It also explains how to choose the ideal gear ratio for a particular application. Various high-performance and racing setups are also shown, including essential modifications, gun drilling the shafts, cutting down the gears to remove weight, and achieving race-specific clearances. Muncie 4-speeds need rebuilding after many miles of service and extreme use. In addition, when a muscle car owner builds a high-performance engine that far exceeds stock horsepower, a stronger high-performance transmission must be built to accommodate this torque and horsepower increase. No other book goes into this much detail on the identification of the Muncie 4-speed, available parts, selection of gear ratios, and the rebuild process.

**Today's Technician: Manual Transmissions and Transaxles Classroom**

**Manual and Shop Manual**

Aug 20 2021 Reflecting the latest ASE Education

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Foundation standards, the fully updated Seventh Edition of **TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES** covers must-know topics including dual-clutch systems, limited-slip differential designs, and all-wheel drive systems, as well as essential safety concepts and major components of the transmission system and subsystems. New material throughout the text gives readers an up-to-date understanding of the latest automotive technology and key advances in the fast-changing automotive industry. The authors have revised sections on electronic controls of transmissions, transfer cases, and differentials to feature the latest reprogramming techniques today's technicians need to know. Covering both fundamental theory and practical job skills, the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles, and a hands-on Shop Manual with full-color photo sequences and detailed job sheets,

including service and repair tasks based on the latest MLR, AST, and MAST task lists.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **How to Rebuild and Modify Your Manual Transmission**

May 29 2022 This resource explains how to rebuild and modify transmissions from both rear- and front-wheel-drive cars. It explains the principles behind the workings of all manual transmissions, and helps readers understand what they need to do and know to rebuild their own transmissions. Includes how to determine what parts to replace; how and why to replace certain seals, spacers, springs, forks, and other parts; and where to find (and how to measure) the specifications for each particular transmission.

### **Electronic Transmission Controls**

Jun 25 2019 The evolution of the automotive transmission has changed rapidly in the last decade, partly due to the advantages of

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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. Automotive Transmissions Oct 10 2020 This book gives a full account of the development process for automotive transmissions. Main topics: - Overview of the traffic - vehicle - transmission system - Mediating the power flow in vehicles - Selecting the ratios - Vehicle transmission systems - basic design principles - Typical designs of vehicle transmissions - Layout and design of important components, e.g. gearshifting mechanisms, moving-off elements, pumps, retarders - Transmission control units - Product development process.

Manufacturing technology of vehicle transmissions, Reliability and testing The book covers manual, automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles. Furthermore, final drives, power take-offs and transfer gearboxes for 4-WD-vehicles are considered. Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions. About 40% of the second edition's content is new or revised with new data.

**Manual Transmission Clutch Systems** Dec 24 2021 This book serves as a basic clutch design handbook by covering present and future clutch technologies related to passenger cars and light duty trucks. Chapters cover: History of Clutches Introduction to Modern Diaphragm Spring Clutch Basic Diaphragm Clutch Operating Principles Terminology and Definitions

Clutch Operating Parameters Clutch Sizing for Manual Transmission System Engagement Quality Torsional Vibration and Tuning Capacity Testing Clutch Troubleshooting Clutch Quality Control Clutch Friction Materials Clutch Rebuilding and Remanufacturing Clutch Actuation Systems. *Automotive Handbook* Nov 10 2020 Bosch literature sets the standard for concise explanations of the function and engineering of automotive systems and components: from Fuel Injection, to Anti-lock Braking Systems, to Alarm Systems. These books are a great resource for anyone who wants quick access to advanced automotive engineering information. The vocational or technical school instructor faced with tough questions from inquiring students will find welcome answers in their pages. Advanced enthusiasts who want to understand what goes on under the skin of today's sophisticated automobiles will find the explanations they seek.

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And motivated technicians who want to cultivate a confident expertise will find the technical information they need. Both handbooks are fully stitched, case bound and covered with strong but flexible "shop-proof" vinyl for long life. Each of these exhaustive reference manuals includes application-specific material gathered from the engineers of leading European auto companies and other original equipment manufacturers, as well as input from leading authorities at universities throughout the world. Each book is edited by the same Bosch technical experts who design and build the world's finest automotive and diesel systems and components. In every field there's a single, indispensable reference work that rises above the rest. In the automotive world that reference is the blue Automotive Handbook from Bosch. Now in its brand new 4th edition and expanded to over 840 pages. With more than 1,000 cut-away illustrations, diagrams, tables and sectional drawings, this

definitive encyclopedia of automotive engineering information is both exhaustive and accessible, making even sophisticated automotive concepts easy to visualize and understand. The 4th edition includes an all-new, comprehensive section on Vehicle Dynamics Control (VDC), that covers traction control system design and operation. 19 other subject areas have been expanded and updated. Section headings in the new 4th edition include: -- Vehicle Dynamics Control (NEW!) -- Sensors -- Reliability -- Lighting -- Air supply -- Mathematics -- Navigation systems -- Braking equipment -- Power transmission -- Chassis -- Starting and ignition -- Comfort and safety -- General technical knowledge -- Motor-vehicle dynamics -- Vehicle bodies, passenger and commercial -- Symbols used in vehicle electrical systems -- Vehicle windows and window cleaning - - Heating and air conditioning - - Communication and information systems -- Vehicle hydraulics and pneumatics

Environmental effects of vehicle equipment -- Actuators -- Quality -- Vehicle drives -- Fuel metering -- Physics -- Driver information -- Materials science -- Road-vehicle systems -- Alarm & signaling systems -- Engine exhaust gases -- Road traffic legislation

*Manual Transmissions* Jun 29 2022 Delmar Learning's new TechOne: Manual

*Transmissions* simplifies teaching and learning with its unique format. Concise chapters cover theory, diagnosis, service, and repair for manual transmission systems, sub-topics, and components. This easy-to-follow method helps students rapidly progress from one topic to the next. Strong illustrations and photos enhance the approach for visual learners, and all students can benefit from the coverage of ASE certification requirements.

Once the course is completed, an ASE practice exam in the Appendix allows students to put their skills to the test.

*Lotus* Jan 01 2020 British automaker Lotus is known for

both its racing models and its street model cars. Readers will compare and contrast these two types of cars through chapters that profile both types. Chapters cover the history of this brand, its most famous models, and take a look at the re-launch of the beloved Esprit model. Young fans will learn more from a stat rundown chart for each profiled model.

*How To Rebuild and Modify Your Manual Transmission* Oct 02 2022

This resource explains how to rebuild and modify transmissions from both rear- and front-wheel-drive cars. It explains the principles behind the workings of all manual transmissions, and helps readers understand what they need to do and know to rebuild their own transmissions.

Includes how to determine what parts to replace; how and why to replace certain seals, spacers, springs, forks, and other parts; and where to find (and how to measure) the specifications for each particular transmission.

*Manual Transmissions &*

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*Transaxles* Oct 29 2019

*Today's Technician* Aug 08  
2020

**Direct Support and General  
Support Maintenance  
Manual** Jan 25 2022

Automotive Transmissions Jan  
31 2020 This book gives a full  
account of the development  
process for automotive  
transmissions. Main topics: -  
Overview of the traffic - vehicle  
- transmission system -  
Mediating the power flow in  
vehicles - Selecting the ratios -  
Vehicle transmission systems -  
basic design principles -  
Typical designs of vehicle  
transmissions - Layout and  
design of important  
components, e.g. gearshifting  
mechanisms, moving-off  
elements, pumps, retarders -  
Transmission control units -  
Product development process,  
Manufacturing technology of  
vehicle transmissions,  
Reliability and testing The book  
covers manual, automated  
manual and automatic  
transmissions as well as  
continuously variable  
transmissions and hybrid  
drives for passenger cars and

commercial vehicles.

Furthermore, final drives,  
power take-offs and transfer  
gearboxes for 4-WD-vehicles  
are considered. Since the  
release of the first edition in  
1999 there have been a lot of  
changes in the field of vehicles  
and transmissions. About 40%  
of the second edition's content  
is new or revised with new  
data.

**Manual Gearbox Design** Jul  
31 2022 A must-have book for  
anyone designing manual  
gearboxes, based on 40 years  
of industrial experience.

*Max Ellery's Transmission  
Repair Manual Holden's  
1963-1988* Aug 27 2019

**How to Rebuild and Modify  
High-Performance Manual  
Transmissions** Nov 03 2022

How to Rebuild and Modify  
High-Performance Manual  
Transmissions breaks down the  
disassembly, inspection,  
modification/upgrade, and  
rebuilding process into detailed  
yet easy-to-follow steps  
consistent with our other  
Workbench series books. The  
latest techniques and insider  
tips are revealed, so an

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enthusiast can quickly perform a tear-down, identify worn parts, select the best components, and successfully assemble a high-performance transmission. Transmission expert and designer Paul Cangialosi shares his proven rebuilding methods, insight, and 27 years of knowledge in the transmission industry. He guides you through the rebuilding process for most major high-performance transmissions, including BorgWarner T10 and super T10, GM/Muncie, Ford Toploader, and Tremec T5. This new edition also contains a complete step-by-step rebuild of the Chrysler A833 transmission.

**VW GTI, Golf, Jetta, MK III & IV** Jan 13 2021 Volkswagen's GTI, Golf, and Jetta are long-time favorites among sport-compact performance enthusiasts. With engines ranging from the 2.0 liter naturally-aspirated four-cylinder to the 1.8 liter turbo 4 to the VR6, the Mk III and Mk IV generations (1993-2004) offer tuners a wealth of

opportunities. This book turns these opportunities into realities, from deciding which vehicle to buy, to keeping it running in tip-top condition, to enhancing the performance and appearance of your VW. Focusing on the engine, wheels and tires, suspension, body kits, interiors, and more, each project includes straightforward instruction along with details about the necessary parts, cost, time, and skill. If you want to get the biggest bang for your VW buck, this book is your road map. Transmission Repair Book Ford 1960 to 2007 Nov 22 2021 Automatic AOD, BW 35/40, LE85/91/93/95/97, C4, C5, C6, C9, C10, FMX and M51. Manual 3 speed, 4 speed and 5 speed single rail, Top Loader, T5 and M57. Step by step instructions for a pull down and rebuild. Includes specifications, torque settings, problem diagnosis, shift speeds plus more information. This book is from an Australian publisher, and covers both American and Australian applications.

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## **How to Build and Modify High-performance Manual**

**Transmissions** Feb 23 2022

How to Build and Modify High Performance Manual

Transmissions, by author Paul Cangialosi, is a complete guide to all transmissions manual, including theory and design, disassembly, inspection, rebuilding, tips and techniques, and performance modifications. Borg Warner T-10s. ST-10s and T-5s are covered, as well as Ford Top Loaders, Chrysler A833s, and GM Muncies.

Peripheral systems are covered as well, including clutches, speedometers assemblies, as well as shifters and shifter modifications. Also included are tables, speedometer ratios for GM cars, torque specs, oil capacities, and ratio charts of all the popular transmissions. If you have any plan for rebuilding or improving your manual transmission, this is the book for you!

**Service Manual: Transmission, 554/644, 744/844, 844S.** Sep 01 2022  
**Minimizing of Automotive Transmission Rattle Noise**

## **by Means of Gear Oils** Jul 27

2019 Caused by downsizing of combustion engines, the torque fluctuation at the crankshaft induces torsional vibrations in the powertrain. Manual transmissions and dual clutch transmissions are particularly sensitive to gear-rattle noise. Gear-rattle noise arises from oscillations of loose parts with clearance, e.g. idler gears, synchronizer rings and gearshift sleeves. The aim of this research is the formulation of a gear oil for the application in a manual transmission to minimize gear rattling noise. Acoustic measurements on a gear-rattle noise test bench verify the noise reduction of the developed gear oils with commonly used low oil viscosity. An analysis of the transmission error proves that gear tooth impacts during rattling lead to elastic deformation of the meshing gear pairs. The main source for the intensity of gear-rattle noise is the additional presence of meshing impacts at the beginning of each gear pair meshing. Gear-rattle noise

reduction can be achieved by avoiding meshing impacts, e.g. by minimizing the traction coefficient of the gear oil.

**Porsche 911 (1996)** Feb 11 2021 Don't buy a Porsche 996 without buying this book first! Having this book in your pocket is just like having a real marque expert by your side. Benefit from Adrian Streather's years of Porsche ownership. Learn how to spot a bad car quickly and how to assess a promising one like a professional. Get the right car at the right price!

*Today's Technician: Manual Transmissions and Transaxles* Sep 28 2019 Updated to include the latest developments in the field, TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS AND TRANSAXLES, 5E covers a wide range of must-know topics including dual clutch systems, various limited-slip differential designs, six-speed transmissions, diagnosis and servicing new systems and self-shifting manual, while still addressing the foundational basics like the purpose and

major components of the transmission system and subsystems. Divided into two volumes, the Classroom Manual presents system theory and addresses cognitive objectives, and the Shop Manual covers hands-on service and repair tasks, addressing performance objectives. TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS AND TRANSAXLES, 5E features detailed full-color photos to walk the reader through what to expect when they perform a procedure on-the-job. Likewise, the book stresses the importance of safe work habits -- dedicating a full chapter to the topic. Finally, the textbook includes all of the information required to successfully pass an ASE exam for Manual Drive Trains and Axles. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Federal Register* Nov 30 2019 [Aston Martin](#) Dec 12 2020 The DB 5 was immortalized by

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James Bond, and Aston Martin's sports cars have been treasured by high-performance fans ever since. Readers will learn about this company's storied history, sports cars, and what aspects make a sports car a super car. The automaker's best-loved models, as well as the growing development of more compact city cars are covered in accessible text. Young gear-heads will love the stat boxes provided for each model.

*Advanced and Performance Driving* Mar 15 2021 Reg Local is an ex-police driving instructor. With a number of years operational experience as a traffic officer and several years teaching police drivers at standard and advanced level, including pursuit tactics and VIP protection driving, he has a wealth of experience to share with the reader. In this book, Reg explores not only the practical skills required by a good driver, but also the mental aspects of driving in a wide range of scenarios. As well as exploring overtaking, cornering, acceleration and

braking sense, Reg has included chapters on emergency response driving, motorway driving, dealing with the mistakes of others and how to check your own abilities in a realistic way. The book is useful for drivers at any stage in their driving career, from the newly qualified driver to the experienced emergency services driver and everyone in between. The book can be read on its own, or as part of a course of advanced instruction. It complements other driving manuals, especially the police driving manual - Roadcraft.

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles Jul 19 2021 The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and

light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new

report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

### **Design of a Two-speed Transmission for a Manual Wheelchair** May 05 2020

[Ford Automatic Transmission Overhaul](#) Sep 20 2021 Covers rear-wheel drive models (C3, C4, C5, C6, and AOD) and front-wheel drive models (ATX/FLC and AXOD). Included are the fundamentals, diagnosis techniques, and modifications.

### **Today's Technician: Manual**

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**Transmissions & Transaxles  
Classroom Manual** Apr 15

2021 Gear up for success—in the classroom and shop, in your future career —with TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES, Seventh Edition. This proven, practical guide includes easy-to-understand information on a wide range of must-know topics, including transmission system and subsystem

components, shop safety basics, dual-clutch systems, limited-slip differential designs, all-wheel drive systems, and six-speed transmissions. To help you master essential, the Classroom Manual covers every topic for Manual Drive Train and Axles. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.