

GM 4L60E



RANGE	GEAR	SHIFT SOLENOID VALVES		2-4 BAND	REVERSE INPUT CLUTCH	OVERRUN CLUTCH	FORWARD CLUTCH	FORWARD SPRAG CL. ASSEMBLY	3-4 CLUTCH	LD ROLLER CLUTCH	LD/REV. CLUTCH
		1-2	2-3								
PARK		ON*	ON*								APPLIED
REVERSE		ON*	ON*		APPLIED						APPLIED
NEUTRAL		ON*	ON*								
D	1st	ON	ON				APPLIED	HOLDING		HOLDING	
	2nd	OFF	ON	APPLIED			APPLIED	HOLDING			
	3rd	OFF	OFF				APPLIED	HOLDING	APPLIED		
	4th	ON	OFF	APPLIED			APPLIED		APPLIED		
3	1st	ON	ON				APPLIED	HOLDING		HOLDING	
	2nd	OFF	ON	APPLIED			APPLIED	HOLDING			
	3rd	OFF	OFF			APPLIED	APPLIED	HOLDING	APPLIED		
2 ***	1st **	ON	ON			APPLIED	APPLIED	HOLDING		HOLDING	
	2nd	OFF	ON	APPLIED		APPLIED	APPLIED	HOLDING			
1 ***	1st	ON	ON			APPLIED	APPLIED	HOLDING		HOLDING	APPLIED
	2nd	OFF	ON	APPLIED		APPLIED	APPLIED	HOLDING			

* 1-2 AND 2-3 SHIFT SOLENOID OPERATION AND THE SHIFT VALVE POSITIONING IN P, R, N RANGES ARE A FUNCTION OF THE INPUT TO THE SOLENOIDS FROM THE VSS. UNDER NORMAL OPERATING CONDITIONS THE SOLENOIDS ARE ON IN P, R, N.

** A MANUAL SECOND - FIRST GEAR CONDITION IS ONLY AVAILABLE ON SOME MODELS. OTHERWISE, THIS CONDITION IS ELECTRONICALLY PREVENTED.

*** IN MANUAL SECOND AND MANUAL FIRST, SOLENOID OPERATION IS A RESULT OF PCM CALIBRATION. SOME CALIBRATIONS WILL ALLOW ALL THREE GEARS UNDER EXTREME CONDITIONS.

4l60e Transmission Rebuild Guide

Victor M. Corman



4L60e Transmission Rebuild Guide:

GM Automatic Overdrive Transmission Builder's and Swapper's Guide Cliff Ruggles, 2008 Vehicle maintenance

Automotive Automatic Transmission and Transaxles Keith Santini, Kirk Vangelder, 2017-05-18 Automotive Automatic Transmission and Transaxles published as part of the CDX Master Automotive Technician Series provides students with an in depth introduction to diagnosing repairing and rebuilding transmissions of all types Utilizing a strategy based diagnostics approach this book helps students master technical trouble shooting in order to address the problem correctly on the first attempt Outcome focused with clear objectives assessments and seamless coordination with task sheets Introduces transmission design and operation electronic controls torque converters gears and shafts reaction and friction units and manufacturer types Equips students with tried and true techniques for use with complex shop problems Combines the latest technology for computer controlled transmissions with traditional skills for hydraulic transmissions Filled with pictures and illustrations that aid comprehension as well as real world examples that put theory into practice Offers instructors an intuitive methodical course structure and helpful support tools With complete coverage of this specialized topic this book prepares students for MAST certification and the full range of transmission problems they will encounter afterward as a technician About CDX Master Automotive Technician Series Organized around the principles of outcome based education CDX offers a uniquely flexible and in depth program which aligns learning and assessments into one cohesive and adaptable learning system Used in conjunction with CDX MAST Online CDX prepares students for professional success with media rich integrated solutions The CDX Automotive MAST Series will cover all eight areas of ASE certification

GM LS-Series Engines Joseph Potak, 2023-07-25 GM LS Series Engines The Complete Swap Guide 2nd Edition is the updated ultimate guide to installing General Motors LS V 8 in your muscle car hot rod racer or just about any project car

GM 4L80E Transmissions: How to Rebuild & Modify Eric McClellan, 2021-05-15 Learn how to rebuild and modify the GM 4L80E transmission As the successor to the venerable and popular Turbo Hydra matic 400 TH400 the 4L80E was the next flag bearer in GM s line of automatic transmissions While serving as the smaller lighter cousin to the 4L85E the abundance of 4L80E transmissions manufactured between 1991 and 2013 ensures that these highly capable 4 speed overdrive units will be in service for years to come Automatic transmissions are often seen as mysterious and overly complicated but much of the guesswork has been simplified to its basic elements in this easy to follow guide This book covers the process of identifying the best versions tearing down the 4L80E rebuilding reassembly and troubleshooting Upgrades that are available for the 4L80E which is a popular topic among performance fans and transmission swappers are also included This detailed step by step instructional manual is authored by racer and builder Eric McClellan Meticulous step by step photos of the rebuild process are featured along with torque specs and unique identification of all major and most minor components

How To Rebuild and Modify Your Manual Transmission Robert Bowen, 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 How to Rebuild and Modify High-Performance Manual Transmissions Paul Cangialosi,2010 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 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 **(GM) Domestic Automotive Transmission Troubleshooter and Reference** Mandy Concepcion,2011-10 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

Chilton's Guide to Automatic Transmission Repair Manual, 1984-89 Chilton Automotive Books, 1990-07-01 Explains how the automatic transmission works and provides instructions and technical information on how to repair it Chilton's Guide to Automatic Transmission Repair Chilton Book Company, 1985 Covers the theory diagnosis specifications repair and overhaul of American car transmissions and transaxles Muncie 4-Speed Transmissions Paul Cangialosi, 2014-10-15 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 GM 6L80 Transmissions Steve Garrett, 2022-01-14 Introduced in 2006 the 6L80 has become the most popular General Motors transmission in production today Millions are on roads around the world and the 6L series of transmissions has overtaken the 4L60E as the most popular rebuild in the majority of transmission shops and dealerships today Automatic transmissions are often seen as mysterious and overly complicated but much of the guesswork has been simplified to its basic elements in this easy to follow guide This book covers the identification process operation diagnostic pointers common failures and repair and rebuild procedures for the 6L80 transmission Upgrades that are available to make the 6L80 more robust are covered as well as the companies that offer

upgrades This detailed step by step instructional manual is authored by engineer instructor speaker and author Steve Garrett Meticulous step by step photos of the rebuild process are featured along with torque specifications and identification of all major and most minor components *Chilton's Guide to Automatic Transmission Repair*, 197? Chilton's Guide to Automatic Transmission Repair, 1980-1984 The Chilton Editors, 1988-10 Chilton's Maxi manuals are natural companions to its model specific repair manuals These manuals offer more in depth and specialized automotive information on specific operation systems Written especially for the do it yourself these manuals deal with topics such as air conditioning automatic transmissions engine rebuilding and power accessories Each system is fully covered for all manufacturers and model years indicated They serve the needs of the dedicated do it yourself For each system these manuals provide fundamentals theory troubleshooting detailed diagnostics and overhaul procedures As always the Chilton name is your customer's guarantee of comprehensive information and reliability **Chilton's Guide to Automatic Transmission Repair, 1984-1989 Import Cars and Trucks** Chilton Automotive Books, The Nichols/Chilton, 1990-07-01 Provides diagnostic and service procedures for foreign car and truck automatic transmissions Chilton's Guide to Automatic Transmission Repair Chilton Book Company, *Chilton's Guide to Automatic Transmission Repair* Chilton Book Company, 1988 Provides maintenance troubleshooting and repair information for automotive transmissions and transaxles for domestic cars and light trucks built between 1980 and 1984 *General Motors Automatic Transmission Overhaul* John Haynes, 2002-02-21 Covers rear wheel drive transmissions THM200 4R THM350 THM400 and THM700 R4 and front wheel drive transaxles THM125 125C THM3T40 THM440 T4 and THM4T60 Chilton's Guide to Automatic Transmission Repair, 1980-84 Import Cars & Light Trucks, 1988 Theory diagnosis specifications repair and overhaul procedures for transmissions and transaxles on 1980 84 import cars and light trucks Cover *Manual Transmission Repair : Learning Guide* Beaudoin, Jean, CEMEQ., Morel, André, 1993 **Chilton's Guide to Automatic Transmission Repair. Import Cars & Light Trucks**

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