

GM 4L60E



RANGE	GEAR	SHIFT SOLENOID VALVES		2-4 BAND	REVERSE INPUT CLUTCH	OVERRUN CLUTCH	FORWARD CLUTCH	FORWARD SPRAG CL. ASSEMBLY	3-4 CLUTCH	LO ROLLER CLUTCH	LO/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 YSS. 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.

Transmission Manual Atsg4l60e

Steve Garrett



Transmission Manual Atsg4l60e:

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

Truck and Trailer Systems (PB) Mike Thomas, 2013-10-22 The most complete visual guide to servicing medium and heavy duty truck systems Written by an expert with decades of experience as an automotive and diesel technician and instructor Truck and Trailer Systems offers comprehensive information on medium and heavy duty truck service The book begins by discussing the trucking industry professional certifications safety tools and measuring equipment Then each system is thoroughly covered from electrical and lighting to brakes and transmissions Factory procedures from the most common manufacturers for diagnosis and repair are presented along with annotated photos and diagrams This practical authoritative resource is essential for those starting out in the field as well as experienced professionals in need of a detailed on the job reference Chapters include Objectives Notes Cautions Service tips Photos and diagrams Chapter reviews Truck and Trailer Systems covers Industry safety Basic electrical Magnetism Batteries Starting system Charging system Lighting and wiring Computer systems Mobile heating ventilation and air conditioning systems Tires wheels and wheel end systems Frames and suspensions Steering systems Trailers and fifth wheels Hydraulic brake systems Air brake foundation brakes Air brake air systems Antilock brake systems Drive lines Clutches Drive axles Single and twin countershaft manual transmissions Automated manual transmissions Automatic transmissions Allison transmission overhaul PMI Auxiliary power units

Mastering The 4L60E Anton Hulme, 2025-09-12 Are you tired of costly 4L60E transmission repairs and frustrating

breakdowns Is the dreaded shudder slip or complete failure of your automatic transmission haunting your driving experience Then prepare to regain control of the road and conquer your transmission woes with Mastering the 4L60E Transmission Troubleshooting and Repair This comprehensive guide empowers you with the knowledge and skills to diagnose repair and maintain your 4L60E transmission saving you thousands of dollars in professional repair bills This isn't just another generic repair manual Mastering the 4L60E dives deep into the intricate workings of this ubiquitous GM transmission providing a practical step by step approach that's perfect for both novice DIY mechanics and experienced professionals Forget vague explanations and confusing jargon this book is written in clear concise language accompanied by detailed illustrations and photographs to guide you through every stage of the process Uncover the Secrets of the 4L60E Learn the inner workings of this complex transmission understanding its strengths weaknesses and common points of failure This book goes beyond simple fixes equipping you with the diagnostic skills to identify the root cause of your transmission problems Master Troubleshooting Techniques Discover proven methods for pinpointing the source of transmission issues from simple fluid leaks to complex internal failures Armed with this knowledge you'll confidently diagnose problems and avoid costly trial and error repairs Comprehensive Repair Procedures Follow detailed easy to understand instructions for a wide range of repairs from simple fluid changes and filter replacements to complete overhauls and rebuilds Each step is meticulously explained with clear visuals to ensure success Preventative Maintenance Strategies Extend the life of your transmission and avoid costly breakdowns by learning essential preventative maintenance techniques Proactive care saves money in the long run and keeps your vehicle on the road Expert Insights and Troubleshooting Charts Benefit from expert advice troubleshooting charts and detailed diagrams that simplify complex processes transforming even the most daunting repairs into manageable tasks Mastering the 4L60E Transmission Troubleshooting and Repair isn't just a book it's your key to mastering one of the most common and challenging automatic transmissions on the road Stop throwing money away on expensive repairs Take control of your vehicle's destiny save thousands of dollars and experience the satisfaction of tackling a challenging project successfully Order your copy today and start mastering your 4L60E

GM Automatic Overdrive Transmission Builder's and Swapper's Guide Cliff Ruggles, 2008 Vehicle maintenance *Motor's Automatic Transmission Manual* Louis C. Forier, 1973 **Motor Automatic Transmission Manual** Motor (N.Y.), 1975 *Motor Automatic Transmission Manual*, 1979 (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

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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

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

Transmission Manual Atsg4l60e Book Review: Unveiling the Power of Words

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