

2001 FORD F150 TRANSMISSION DIAGRAM

2001 FORD F150 TRANSMISSION DIAGRAM IS A CRITICAL RESOURCE FOR UNDERSTANDING THE TRANSMISSION SYSTEM OF THE 2001 FORD F-150 PICKUP TRUCK. THIS DETAILED GUIDE PROVIDES AN IN-DEPTH LOOK AT THE TRANSMISSION LAYOUT, COMPONENTS, AND HOW THEY INTERCONNECT TO ENSURE SMOOTH VEHICLE OPERATION. WHETHER YOU ARE A MECHANIC, AUTOMOTIVE ENTHUSIAST, OR A FORD F-150 OWNER LOOKING TO PERFORM MAINTENANCE OR REPAIRS, HAVING ACCESS TO AN ACCURATE TRANSMISSION DIAGRAM IS INVALUABLE. THIS ARTICLE EXPLORES THE DIFFERENT TYPES OF TRANSMISSIONS USED IN THE 2001 FORD F-150, BREAKS DOWN THE KEY COMPONENTS SHOWN IN THE TRANSMISSION DIAGRAM, AND EXPLAINS HOW TO INTERPRET AND USE THESE DIAGRAMS EFFECTIVELY. ADDITIONALLY, IT COVERS COMMON ISSUES RELATED TO THE TRANSMISSION SYSTEM AND OFFERS TIPS FOR TROUBLESHOOTING WITH THE DIAGRAM AS A GUIDE. UNDERSTANDING THE 2001 FORD F-150 TRANSMISSION DIAGRAM CAN IMPROVE REPAIR ACCURACY AND VEHICLE PERFORMANCE, MAKING IT AN ESSENTIAL TOOL FOR ANYONE WORKING WITH THIS MODEL TRUCK.

- OVERVIEW OF THE 2001 FORD F-150 TRANSMISSION SYSTEM
- TYPES OF TRANSMISSIONS USED IN THE 2001 FORD F-150
- DETAILED BREAKDOWN OF THE TRANSMISSION DIAGRAM
- HOW TO READ AND INTERPRET TRANSMISSION DIAGRAMS
- COMMON TRANSMISSION ISSUES AND TROUBLESHOOTING
- MAINTENANCE TIPS USING THE TRANSMISSION DIAGRAM

OVERVIEW OF THE 2001 FORD F-150 TRANSMISSION SYSTEM

THE 2001 FORD F-150 FEATURES A ROBUST TRANSMISSION SYSTEM DESIGNED TO HANDLE BOTH DAILY DRIVING AND HEAVY-DUTY TASKS. THE TRANSMISSION SYSTEM IS A KEY COMPONENT THAT TRANSFERS POWER FROM THE ENGINE TO THE WHEELS, ENABLING THE VEHICLE TO ACCELERATE, DECELERATE, AND MAINTAIN SPEED EFFICIENTLY. THE TRANSMISSION SYSTEM IN THIS MODEL INCLUDES VARIOUS PARTS SUCH AS THE TORQUE CONVERTER, GEARS, VALVES, AND CONTROL MODULES, ALL OF WHICH ARE TYPICALLY REPRESENTED IN A 2001 FORD F-150 TRANSMISSION DIAGRAM. UNDERSTANDING THE LAYOUT AND FUNCTION OF THESE COMPONENTS IS CRUCIAL FOR DIAGNOSING PROBLEMS AND PERFORMING REPAIRS.

COMPONENTS OF THE TRANSMISSION SYSTEM

THE TRANSMISSION SYSTEM IN THE 2001 FORD F-150 CONSISTS OF MULTIPLE PARTS WORKING TOGETHER TO MANAGE POWER DELIVERY AND GEAR SHIFTING. THE PRIMARY COMPONENTS INCLUDE:

- TORQUE CONVERTER – CONNECTS THE ENGINE TO THE TRANSMISSION AND ALLOWS THE VEHICLE TO COME TO A STOP WITHOUT STALLING.
- PLANETARY GEAR SETS – PROVIDE THE DIFFERENT GEAR RATIOS.
- VALVE BODY – DIRECTS HYDRAULIC FLUID FLOW TO SHIFT GEARS.
- TRANSMISSION FLUID PUMP – CIRCULATES TRANSMISSION FLUID FOR LUBRICATION AND COOLING.
- CLUTCHES AND BANDS – ENGAGE AND DISENGAGE GEARS FOR SMOOTH SHIFTING.
- TRANSMISSION CONTROL MODULE (TCM) – ELECTRONICALLY CONTROLS SHIFT TIMING AND OPERATION.

TYPES OF TRANSMISSIONS USED IN THE 2001 Ford F-150

THE 2001 Ford F-150 WAS EQUIPPED WITH SEVERAL TRANSMISSION OPTIONS DEPENDING ON THE ENGINE TYPE AND DRIVETRAIN CONFIGURATION. BOTH MANUAL AND AUTOMATIC TRANSMISSIONS WERE AVAILABLE, WITH AUTOMATIC TRANSMISSIONS BEING THE MOST COMMON IN THIS MODEL YEAR. THE TWO PRIMARY AUTOMATIC TRANSMISSIONS USED WERE THE 4R70W AND THE 4R100, EACH WITH DISTINCT CHARACTERISTICS AND INTERNAL DESIGNS.

4R70W AUTOMATIC TRANSMISSION

THE 4R70W IS A FOUR-SPEED AUTOMATIC TRANSMISSION FEATURING ELECTRONIC CONTROLS FOR IMPROVED SHIFTING PERFORMANCE AND FUEL ECONOMY. THIS TRANSMISSION IS WIDELY USED IN THE 2001 Ford F-150 AND IS KNOWN FOR ITS DURABILITY AND SMOOTH OPERATION. THE 2001 Ford F150 TRANSMISSION DIAGRAM FOR THE 4R70W HIGHLIGHTS ITS COMPLEX VALVE BODY AND HYDRAULIC CIRCUITS.

4R100 AUTOMATIC TRANSMISSION

THE 4R100 TRANSMISSION IS A HEAVY-DUTY AUTOMATIC TRANSMISSION DESIGNED FOR MODELS WITH HIGHER TOWING CAPACITIES, SUCH AS THOSE EQUIPPED WITH THE 7.3L POWER STROKE DIESEL ENGINE. IT SHARES SIMILARITIES WITH THE 4R70W BUT INCLUDES REINFORCED COMPONENTS FOR HANDLING INCREASED TORQUE. THE TRANSMISSION DIAGRAM FOR THE 4R100 DETAILS THE ENHANCED PARTS AND CONTROL SYSTEMS.

MANUAL TRANSMISSION OPTIONS

ALTHOUGH LESS COMMON, SOME 2001 Ford F-150 TRUCKS WERE EQUIPPED WITH MANUAL TRANSMISSIONS. THESE TYPICALLY FEATURED A 5-SPEED MANUAL GEARBOX, WHICH OFFERS DIRECT MECHANICAL CONTROL OVER GEAR SELECTION. THE TRANSMISSION DIAGRAM FOR MANUAL MODELS IS SIMPLER BUT STILL ESSENTIAL FOR CLUTCH AND GEAR ASSEMBLY MAINTENANCE.

DETAILED BREAKDOWN OF THE TRANSMISSION DIAGRAM

A 2001 Ford F150 TRANSMISSION DIAGRAM PROVIDES A VISUAL REPRESENTATION OF THE INTERNAL COMPONENTS AND THEIR ARRANGEMENT WITHIN THE TRANSMISSION SYSTEM. THESE DIAGRAMS ARE ESSENTIAL FOR UNDERSTANDING THE MECHANICAL AND HYDRAULIC PATHWAYS THAT ENABLE GEAR SHIFTING AND POWER TRANSFER. THE DIAGRAM TYPICALLY INCLUDES LABELS AND SYMBOLS REPRESENTING EACH CRITICAL PART AND CONNECTION.

KEY ELEMENTS IN THE TRANSMISSION DIAGRAM

UNDERSTANDING THE KEY ELEMENTS IN THE TRANSMISSION DIAGRAM ALLOWS TECHNICIANS AND ENTHUSIASTS TO IDENTIFY COMPONENTS QUICKLY AND COMPREHEND THEIR FUNCTIONS. IMPORTANT ELEMENTS ILLUSTRATED IN THE DIAGRAM INCLUDE:

- **TORQUE CONVERTER:** SHOWN CONNECTED TO THE ENGINE FLYWHEEL AND TRANSMISSION INPUT SHAFT.
- **GEAR SETS:** DEPICTED AS PLANETARY GEAR ARRANGEMENTS WITH SUN, PLANET, AND RING GEARS.
- **VALVE BODY:** ILLUSTRATED WITH VARIOUS CHANNELS AND VALVES RESPONSIBLE FOR DIRECTING HYDRAULIC FLUID.
- **HYDRAULIC CIRCUITS:** MARKED PATHWAYS SHOWING FLUID FLOW CONTROLLING CLUTCHES AND BANDS.
- **CLUTCHES AND BANDS:** INDICATED AS ENGAGING MECHANISMS FOR DIFFERENT GEAR RATIOS.

- **OUTPUT SHAFT:** THE SHAFT THAT TRANSFERS POWER TO THE DRIVESHAFT AND ULTIMATELY THE WHEELS.

COLOR CODING AND SYMBOLS

MANY TRANSMISSION DIAGRAMS USE COLOR CODING OR SPECIFIC SYMBOLS TO DIFFERENTIATE BETWEEN HYDRAULIC LINES, ELECTRICAL CONNECTIONS, AND MECHANICAL PARTS. THIS VISUAL AID SIMPLIFIES COMPLEX SYSTEMS AND ENHANCES COMPREHENSION WHEN TROUBLESHOOTING OR ASSEMBLING THE TRANSMISSION.

HOW TO READ AND INTERPRET TRANSMISSION DIAGRAMS

INTERPRETING A 2001 FORD F150 TRANSMISSION DIAGRAM REQUIRES FAMILIARITY WITH AUTOMOTIVE SYMBOLS AND AN UNDERSTANDING OF TRANSMISSION OPERATION PRINCIPLES. READING THESE DIAGRAMS INVOLVES TRACING FLUID FLOW PATHS, IDENTIFYING MECHANICAL LINKAGES, AND RECOGNIZING ELECTRICAL CONTROLS.

STEP-BY-STEP APPROACH TO READING

EFFECTIVE USE OF TRANSMISSION DIAGRAMS CAN BE ACHIEVED THROUGH A SYSTEMATIC APPROACH:

1. **IDENTIFY THE TRANSMISSION TYPE:** CONFIRM WHETHER THE DIAGRAM CORRESPONDS TO THE SPECIFIC TRANSMISSION MODEL INSTALLED.
2. **UNDERSTAND THE SYMBOLS:** REVIEW THE LEGEND OR KEY TO FAMILIARIZE WITH THE SYMBOLS USED.
3. **TRACE HYDRAULIC CIRCUITS:** FOLLOW THE FLUID PATHWAYS TO UNDERSTAND HOW SHIFTING IS CONTROLLED.
4. **LOCATE MECHANICAL COMPONENTS:** IDENTIFY GEARS, CLUTCHES, BANDS, AND SHAFTS AS SHOWN.
5. **ANALYZE ELECTRICAL CONNECTIONS:** NOTE SENSORS AND ACTUATORS LINKED TO THE TRANSMISSION CONTROL MODULE.

PRACTICAL APPLICATIONS

READING TRANSMISSION DIAGRAMS IS ESPECIALLY USEFUL WHEN DIAGNOSING SHIFTING PROBLEMS, FLUID LEAKS, OR COMPONENT FAILURES. IT ASSISTS IN PINPOINTING MALFUNCTIONING PARTS AND GUIDES PROPER REASSEMBLY AFTER REPAIRS.

COMMON TRANSMISSION ISSUES AND TROUBLESHOOTING

THE 2001 FORD F-150 TRANSMISSION SYSTEM, WHILE RELIABLE, CAN EXPERIENCE ISSUES RELATED TO WEAR AND TEAR, HYDRAULIC LEAKS, OR ELECTRICAL FAULTS. UTILIZING THE 2001 FORD F150 TRANSMISSION DIAGRAM CAN AID IN DIAGNOSING THESE PROBLEMS EFFECTIVELY.

TYPICAL TRANSMISSION PROBLEMS

- **SLIPPING GEARS:** CAUSED BY WORN CLUTCHES OR LOW TRANSMISSION FLUID.
- **DELAYED OR HARSH SHIFTING:** OFTEN LINKED TO VALVE BODY MALFUNCTIONS OR SOLENOID FAILURES.

- **TRANSMISSION FLUID LEAKS:** RESULTING FROM DAMAGED SEALS OR GASKETS.
- **OVERHEATING:** DUE TO INSUFFICIENT FLUID CIRCULATION OR EXTERNAL DAMAGE.
- **ELECTRICAL ISSUES:** FAULTY SENSORS OR TRANSMISSION CONTROL MODULE ERRORS.

TROUBLESHOOTING STEPS USING THE DIAGRAM

THE TRANSMISSION DIAGRAM HELPS TECHNICIANS IDENTIFY THE LOCATION OF FAULTY COMPONENTS AND UNDERSTAND THEIR RELATIONSHIP WITHIN THE SYSTEM. KEY TROUBLESHOOTING STEPS INCLUDE:

- CHECKING FLUID FLOW THROUGH HYDRAULIC PATHWAYS DEPICTED IN THE DIAGRAM.
- TESTING SOLENOIDS AND SENSORS CONNECTED TO THE CONTROL MODULE.
- INSPECTING MECHANICAL PARTS SUCH AS CLUTCHES AND BANDS FOR WEAR.
- VERIFYING ELECTRICAL CONNECTIONS AND WIRING HARNESES.

MAINTENANCE TIPS USING THE TRANSMISSION DIAGRAM

PREVENTIVE MAINTENANCE IS CRUCIAL TO EXTENDING THE LIFESPAN AND PERFORMANCE OF THE 2001 FORD F-150 TRANSMISSION. USING THE TRANSMISSION DIAGRAM AS A REFERENCE CAN IMPROVE MAINTENANCE ACCURACY AND EFFICIENCY.

ROUTINE MAINTENANCE PROCEDURES

- **REGULAR FLUID CHECKS:** MONITOR TRANSMISSION FLUID LEVEL AND QUALITY TO AVOID DAMAGE.
- **FILTER REPLACEMENT:** REPLACE THE TRANSMISSION FILTER ACCORDING TO THE MAINTENANCE SCHEDULE.
- **INSPECTING SEALS AND GASKETS:** USE THE DIAGRAM TO LOCATE SEALS PRONE TO LEAKAGE.
- **VALVE BODY CLEANING:** CLEAN OR SERVICE THE VALVE BODY TO MAINTAIN HYDRAULIC EFFICIENCY.
- **ELECTRICAL SYSTEM CHECKS:** TEST SENSORS AND WIRING INDICATED IN THE DIAGRAM.

USING THE DIAGRAM FOR REPAIRS

WHEN PERFORMING REPAIRS OR COMPONENT REPLACEMENTS, THE TRANSMISSION DIAGRAM SERVES AS AN ESSENTIAL GUIDE TO ENSURE CORRECT ASSEMBLY AND CONNECTION OF PARTS. THIS MINIMIZES ERRORS AND REDUCES REPAIR TIME.

FREQUENTLY ASKED QUESTIONS

WHERE CAN I FIND A DETAILED TRANSMISSION DIAGRAM FOR A 2001 Ford F150?

A DETAILED TRANSMISSION DIAGRAM FOR A 2001 Ford F150 CAN TYPICALLY BE FOUND IN THE VEHICLE'S SERVICE MANUAL OR THROUGH ONLINE AUTOMOTIVE REPAIR DATABASES SUCH AS ALldata OR MITCHELL 1.

WHAT TYPE OF TRANSMISSION DOES A 2001 Ford F150 HAVE?

THE 2001 Ford F150 COMMONLY COMES WITH A 4-SPEED AUTOMATIC TRANSMISSION, SPECIFICALLY THE 4R70W, THOUGH SOME MODELS MAY HAVE A 5-SPEED MANUAL TRANSMISSION.

HOW CAN I IDENTIFY TRANSMISSION COMPONENTS IN THE 2001 Ford F150 DIAGRAM?

TRANSMISSION COMPONENTS IN THE DIAGRAM ARE USUALLY LABELED WITH PART NAMES SUCH AS TORQUE CONVERTER, PLANETARY GEAR SET, VALVE BODY, AND CLUTCH PACKS. REFER TO THE LEGEND OR KEY PROVIDED IN THE DIAGRAM FOR CLEAR IDENTIFICATION.

IS THERE AN ONLINE RESOURCE TO VIEW OR DOWNLOAD THE 2001 Ford F150 TRANSMISSION DIAGRAM?

YES, WEBSITES LIKE FORD'S OFFICIAL SERVICE SITE, AUTOMOTIVE FORUMS, OR REPAIR WEBSITES SUCH AS AutoZone AND RepairPal MAY OFFER DOWNLOADABLE TRANSMISSION DIAGRAMS OR SCHEMATICS FOR THE 2001 Ford F150.

WHAT ARE COMMON ISSUES SHOWN IN A 2001 Ford F150 TRANSMISSION DIAGRAM?

THE DIAGRAM HIGHLIGHTS COMPONENTS PRONE TO WEAR SUCH AS THE VALVE BODY, CLUTCH PACKS, AND SOLENOIDS, WHICH CAN CAUSE SHIFTING PROBLEMS OR TRANSMISSION SLIPPING IN A 2001 Ford F150.

CAN I USE A 2001 Ford F150 TRANSMISSION DIAGRAM TO ASSIST IN TRANSMISSION REPAIRS?

YES, THE TRANSMISSION DIAGRAM IS A VALUABLE TOOL FOR UNDERSTANDING THE LAYOUT AND FUNCTION OF TRANSMISSION PARTS, HELPING DIY MECHANICS AND PROFESSIONALS DIAGNOSE AND REPAIR TRANSMISSION ISSUES.

ARE THERE DIFFERENCES IN TRANSMISSION DIAGRAMS FOR 2WD AND 4WD 2001 Ford F150 MODELS?

WHILE THE CORE TRANSMISSION COMPONENTS ARE SIMILAR, 4WD MODELS MAY HAVE ADDITIONAL TRANSFER CASE CONNECTIONS AND RELATED COMPONENTS SHOWN IN THE DIAGRAM, WHICH ARE NOT PRESENT IN 2WD MODELS.

WHAT TOOLS DO I NEED ALONGSIDE A TRANSMISSION DIAGRAM TO REPAIR A 2001 Ford F150 TRANSMISSION?

ALONG WITH THE TRANSMISSION DIAGRAM, TOOLS SUCH AS A TRANSMISSION JACK, SOCKET SET, TORQUE WRENCH, SCREWDRIVERS, AND DIAGNOSTIC EQUIPMENT ARE ESSENTIAL FOR EFFECTIVE REPAIR AND MAINTENANCE.

HOW CAN UNDERSTANDING THE 2001 Ford F150 TRANSMISSION DIAGRAM HELP IN TROUBLESHOOTING TRANSMISSION PROBLEMS?

UNDERSTANDING THE TRANSMISSION DIAGRAM HELPS IDENTIFY SPECIFIC COMPONENTS AND THEIR FUNCTIONS, ALLOWING FOR TARGETED TROUBLESHOOTING, SUCH AS PINPOINTING FAULTY SOLENOIDS OR WORN CLUTCH PACKS CAUSING SHIFTING ISSUES.

ADDITIONAL RESOURCES

1. *Ford F-150 2001 Transmission Repair Manual*

THIS COMPREHENSIVE REPAIR MANUAL OFFERS DETAILED TRANSMISSION DIAGRAM SPECIFICALLY FOR THE 2001 Ford F-150 MODEL. IT INCLUDES STEP-BY-STEP INSTRUCTIONS FOR DIAGNOSING AND FIXING TRANSMISSION ISSUES, MAKING IT AN ESSENTIAL RESOURCE FOR MECHANICS AND DIY ENTHUSIASTS. THE MANUAL COVERS BOTH AUTOMATIC AND MANUAL TRANSMISSION SYSTEMS, ENSURING THOROUGH UNDERSTANDING AND REPAIR GUIDANCE.

2. *Understanding Ford F-150 Transmissions: A 2001 Model Guide*

FOCUSED ON THE 2001 Ford F-150, THIS BOOK PROVIDES AN IN-DEPTH EXPLORATION OF THE VEHICLE'S TRANSMISSION SYSTEM. IT EXPLAINS THE FUNCTIONS OF VARIOUS COMPONENTS THROUGH CLEAR DIAGRAMS AND TECHNICAL DESCRIPTIONS. READERS WILL GAIN INSIGHT INTO HOW THE TRANSMISSION WORKS, COMMON PROBLEMS, AND MAINTENANCE TIPS.

3. *The Complete Transmission Diagram Handbook for Ford Trucks*

THIS HANDBOOK COMPILES DETAILED TRANSMISSION DIAGRAMS FOR MULTIPLE FORD TRUCK MODELS, INCLUDING THE 2001 F-150. IT SERVES AS A VISUAL GUIDE FOR TECHNICIANS AND AUTOMOTIVE STUDENTS, HIGHLIGHTING THE LAYOUT AND CONNECTION OF TRANSMISSION PARTS. THE BOOK ALSO INCLUDES TROUBLESHOOTING CHARTS AND REPAIR RECOMMENDATIONS.

4. *Ford F-150 Maintenance and Transmission Troubleshooting*

GEARED TOWARDS FORD F-150 OWNERS, THIS BOOK EMPHASIZES ROUTINE MAINTENANCE AND TROUBLESHOOTING OF TRANSMISSION SYSTEMS. WITH SPECIFIC REFERENCES TO THE 2001 MODEL YEAR, IT PROVIDES PRACTICAL ADVICE FOR PREVENTING TRANSMISSION FAILURES. THE INCLUDED DIAGRAMS HELP READERS IDENTIFY PARTS AND UNDERSTAND REPAIR PROCEDURES.

5. *Mastering Automatic Transmissions: Ford F-150 2001 Edition*

THIS TECHNICAL GUIDE DELVES INTO THE AUTOMATIC TRANSMISSION SYSTEMS USED IN THE 2001 Ford F-150. IT COVERS OPERATIONAL PRINCIPLES, FLUID DYNAMICS, AND ELECTRONIC CONTROLS WITH DETAILED DIAGRAMS. THE BOOK IS IDEAL FOR PROFESSIONALS SEEKING TO ENHANCE THEIR KNOWLEDGE OF FORD'S AUTOMATIC TRANSMISSIONS.

6. *Ford F-150 2001 Workshop Manual: Transmission Section*

PART OF A LARGER WORKSHOP MANUAL, THIS SECTION FOCUSES ON THE TRANSMISSION COMPONENTS OF THE 2001 Ford F-150. IT CONTAINS EXPLODED VIEWS, WIRING DIAGRAMS, AND ASSEMBLY INSTRUCTIONS. THE MANUAL IS DESIGNED TO ASSIST WORKSHOP TECHNICIANS IN PERFORMING ACCURATE REPAIRS AND REBUILDS.

7. *DIY Transmission Rebuild for Ford F-150 (2001 Model)*

THIS DO-IT-YOURSELF GUIDE WALKS READERS THROUGH THE PROCESS OF REBUILDING THE TRANSMISSION OF A 2001 Ford F-150. IT INCLUDES DETAILED DIAGRAMS AND TIPS TO IDENTIFY AND REPLACE WORN PARTS. PERFECT FOR HANDS-ON VEHICLE OWNERS, IT ENCOURAGES CONFIDENCE IN UNDERTAKING COMPLEX TRANSMISSION REPAIRS.

8. *Ford F-150 Transmission Systems: An Illustrated Guide*

AN ILLUSTRATED REFERENCE BOOK THAT COVERS VARIOUS TRANSMISSION SYSTEMS USED IN FORD F-150 TRUCKS, WITH A DEDICATED SECTION FOR THE 2001 MODEL. THE BOOK FEATURES CLEAR, LABELED DIAGRAMS AND COMPREHENSIVE EXPLANATIONS OF EACH TRANSMISSION COMPONENT. IT SERVES AS A VALUABLE TOOL FOR BOTH STUDENTS AND EXPERIENCED MECHANICS.

9. *Automotive Wiring and Transmission Diagrams for Ford F-150*

THIS TECHNICAL BOOK COMBINES WIRING SCHEMATICS WITH TRANSMISSION DIAGRAMS FOR THE 2001 Ford F-150. IT HELPS USERS UNDERSTAND THE ELECTRICAL ASPECTS OF THE TRANSMISSION SYSTEM, INCLUDING SENSORS AND CONTROL MODULES. THE INTEGRATION OF ELECTRICAL AND MECHANICAL DIAGRAMS MAKES IT INDISPENSABLE FOR TROUBLESHOOTING COMPLEX TRANSMISSION ISSUES.

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